

# MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

BOURNE MEDIAN INSTALLATION ON ROUTE 6 (SCENIC HIGHWAY)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	1	272
PROJECT FILE NO.		606082	

TITLE SHEET

PLAN AND PROFILE OF

## MEDIAN INSTALLATION ON ROUTE 6 (SCENIC HIGHWAY)

IN THE TOWN OF

**BOURNE**

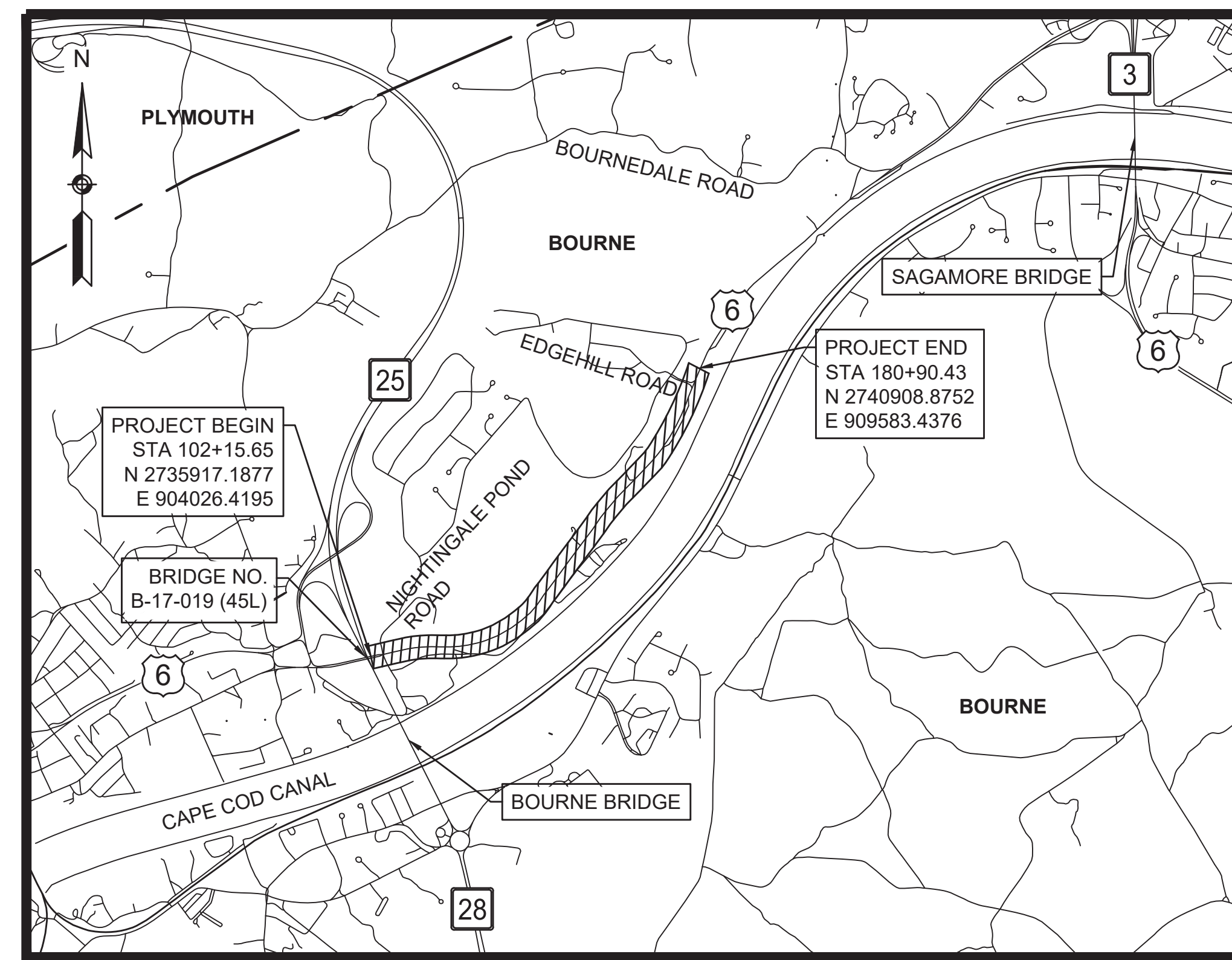
**BARNSTABLE COUNTY**

FEDERAL AID PROJECT NO.

# NHP(NHS)/CMQ-003S(824)X

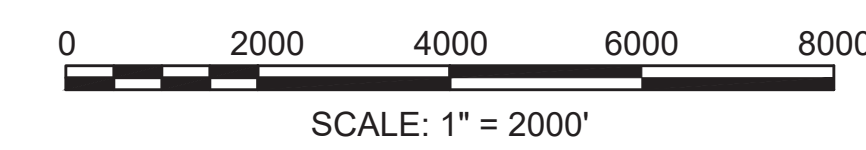
THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS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

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### DESIGN DESIGNATION ROUTE 6 (SCENIC HIGHWAY)

DESIGN SPEED	35 MPH (WEST OF STA 111+65) 55 MPH (EAST OF STA 111+65)
EXISTING ADT (2019)	39,460
FUTURE ADT (2032)	41,030
K	7.4%
D	55% WB
T (PEAK HOUR)	3.20%
T (AVERAGE DAY)	3.95%
DHV (2032)	3,040
DDHV (2032)	1,700 WB
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL



LENGTH OF PROJECT = 7834.11 FEET = 1.484 MILES



**Brett Fiocchi**  
Digitally signed by Brett Fiocchi  
Date: 2025.03.18 13:57:41 -04'00'  
HNTB CORPORATION  
FOR SHEETS 1-106 AND 124-272



**Juli Riemenschneider**  
Digitally signed by Juli Riemenschneider  
Date: 2025.03.18 15:46:16 -04'00'  
GREEN INTERNATIONAL AFFILIATES, INC.  
FOR SHEETS 107-123  
100 AMES POND DRIVE, SUITE 200  
TEWKSBURY, MA 01876

DATE	DESCRIPTION	REV #

APPROVED	
 31 ST. JAMES AVE, SUITE 300 BOSTON, MA 02116	Carrie Lavallee, P.E. 2025.03.19 08:30:06 -04'00' 03/19/2025 CHIEF ENGINEER
	DATE

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN, GUTTER INLET, DROP 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
		TEE
		BEND
		WATER PLUG, MASONRY PLUG
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		DRAINAGE CLEANOUT
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		FLARED END SECTION
		HEADWALL
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE (PUSH BRACE)
		GUY WIRE
		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
		WATER CURB STOP
		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
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HANDRAIL
		HAY BALES/SILT FENCE
		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
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

GENERAL SYMBOLS (cont.)

EXISTING	PROPOSED	DESCRIPTION
		FINE MILLING & OVERLAY
		STONE FOR PIPE ENDS
		MODIFIED ROCKFILL

TRAFFIC SYMBOLS

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

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		12" STOP LINE
		CROSSWALK
		6" SOLID WHITE LINE
		6" SOLID YELLOW LINE
		6" BROKEN WHITE LINE (10' MARK, 30' SKIP)
		6" BROKEN YELLOW LINE (10' MARK, 30' SKIP)
		6" DOTTED WHITE LINE (3' MARK, 9' SKIP)
		6" DOTTED YELLOW LINE (3' MARK, 9' SKIP)
		6" DOTTED WHITE LINE EXTENSION (2' MARK, 8' SKIP)
		6" DOTTED YELLOW LINE EXTENSION (2' MARK, 8' SKIP)
		6" DOUBLE WHITE LINE
		6" DOUBLE YELLOW LINE
		BIKE DETECTOR SYMBOL

ABBREVIATIONS

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

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LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

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

TRAFFIC SIGNAL ABBREVIATIONS

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



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**GENERAL NOTES**

GENERAL NOTES

- THE EXISTING CONDITIONS SHOWN ON THIS BASE MAP FROM THE WESTERN PROJECT LIMIT TO STA 169+70 ARE THE RESULT OF AN ON-THE-GROUND INSTRUMENT SURVEY DATED JULY 2021 BY WSP USA, INC. THE EXISTING CONDITIONS SHOWN ON THIS BASE MAP FROM STATION 169+50 TO THE EASTERN PROJECT LIMIT ARE THE RESULT OF AN ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BETWEEN APRIL 2022 AND JULY 2022 BY GREEN INTERNATIONAL AFFILIATES, INC.
- HORIZONTAL DATUM IS BASED ON MASS. GRID SYSTEM, NAD 1983 (2011) EPOCH 2010.00 U.S. SURVEY FOOT. VERTICAL DATUM IS NAVD 1988.
- THE RIGHT-OF-WAY LINES AND BASELINES SHOWN ON THIS PLAN ARE THE DIRECT RESULT OF AN INSTRUMENT SURVEY PERFORMED ON THE GROUND BY GREEN INTERNATIONAL AFFILIATES, INC. AND FROM PLANS AND DEEDS OF RECORD.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING GRADES AND ELEVATIONS. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY GRADE DISCREPANCIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE LIMITED TO CONSTRUCTION ACTIVITIES WITHIN THE IDENTIFIED LIMITS OF WORK AS SHOWN ON THE PLANS. UNLESS OTHERWISE NOTED ON THE PLANS, AREAS OUTSIDE THE LIMITS OF WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION WITH NO SEPARATE PAYMENT.
- THE CONTRACTOR SHALL CAUSE AS LITTLE INTERFERENCE AND INCONVENIENCE AS POSSIBLE TO ABUTTERS. THE CONTRACTOR SHALL MAINTAIN SAFE AND CONVENIENT ACCESS TO PRIVATE PROPERTY AT ALL TIMES. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- CONSTRUCTION STAGING AREAS SHALL BE LOCATED AS DIRECTED AND APPROVED BY THE ENGINEER WITHIN THE RIGHT OF WAY.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE TOWN AND APPLICABLE AGENCIES PRIOR TO COMMENCING WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF ALL DESIGN TASKS, CALCULATIONS AND CONSTRUCTION AS REFERENCED IN THE CONTRACT PLANS, SPECIFICATIONS AND SUPPLEMENTARY DOCUMENTS.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITY SERVICES AND HIGHWAY LIGHTING THROUGHOUT CONSTRUCTION UNTIL AND UNLESS THEY ARE REPLACED PER THE CONTRACT.
- EXISTING PAVEMENTS SHALL BE SAWCUT WHERE THEY MEET PROPOSED SURFACE TREATMENTS. SAWCUTS WILL BE SMOOTH AND STRAIGHT. AREAS OUTSIDE THE LIMITS OF WORK DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION WILL BE RESTORED TO THEIR ORIGINAL CONDITION.
- CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH NEW WORK. TEST PITS WILL BE PERFORMED TO VERIFY PERTINENT DRAINAGE INVERTS AND POTENTIAL UTILITY CONFLICTS. DISCREPANCIES OR CONFLICTS WILL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- GUARDRAIL POSTS SHOULD NOT BE DRIVEN IN CLOSE PROXIMITY TO EXISTING UNDERGROUND UTILITIES UNLESS UNDERGROUND UTILITIES ARE EXPOSED AND LOCATIONS ARE CLEARLY KNOWN.
- GUARDRAIL POSTS SHALL BE HAND DUG AT LOCATIONS WHERE THE GUARDRAIL CONFLICTS WITH PROPOSED UTILITY CROSSINGS.
- FLOOD ZONE LINE TAKEN FROM FIRM PANELS 255210 0002E, 255210 0003E, AND 255210 0005E, ALL DATED AUGUST 9, 1999.
- WHERE SHOWN ON PLANS, HIGHWAY GUARD INSTALLED SHALL PROVIDE A TIMBER BACKING AND FRANGIBLE LEAVE-OUTS AROUND EACH STEEL POST IN ACCORDANCE WITH MASSDOT STANDARD DETAIL 400.5.1.
- WHERE PROPOSED GUARDRAIL IS INSTALLED OVER EXISTING RCP DRAINAGE PIPE, CONTRACTOR SHALL INSTALL A SHALLOW MOUNTED POST PER MASSDOT STANDARD DETAIL 400.5.1.

DRAINAGE NOTES

- CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING DRAINAGE SYSTEMS THAT ARE SHOWN ON THE DRAINAGE PLANS. WHERE EXISTING DRAINAGE IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE SHALL BE ACCURATELY DETERMINED AND THE CONTRACTOR SHALL CONFIRM WHETHER THE DRAINAGE SYSTEM IS STILL ACTIVE. THE INFORMATION SHALL BE FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT. ALL ACTIVE DRAINAGE SYSTEMS IN CONFLICT WITH THE PROPOSED WORK SHALL BE RELOCATED IN KIND IN SUCH A MANNER AS TO AVOID IMPACTS TO PROPOSED ITEMS AND UTILITIES AS WELL AS IMPACTS TO EXISTING ITEMS AND UTILITIES TO REMAIN. IF DRAINAGE SYSTEM IS FOUND TO BE INACTIVE IT SHALL BE REMOVED OR FILLED IN-PLACE PER THE APPROVAL OF THE ENGINEER.
- NO EXISTING DRAINAGE SYSTEMS SHALL BE ABANDONED, PLUGGED OR REMOVED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- PRECAST DRAINAGE STRUCTURES SHALL COMPLY WITH ASTM C-478 (CIRCULAR MANHOLES AND CATCH BASINS) AND ASTM C-913 (RECTANGULAR MANHOLES AND CATCH BASINS) AND ALL APPLICABLE ASSOCIATED ASTM STANDARDS.
- CONTRACTOR SHALL CLEAN AND MAKE FUNCTIONAL ALL EXISTING STRUCTURES AND PIPING WITHIN THE LIMIT OF WORK. ALL EXISTING AND/OR PROPOSED DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMIT OF WORK SHALL AGAIN BE CLEANED PRIOR TO CONCLUSION OF THE CONTRACT.
- SHOULD DAMAGE OF ANY KIND OCCUR TO EXISTING PIPES AND STRUCTURES, THE CONTRACTOR SHALL MAKE REPAIRS, AT HIS OR HER OWN EXPENSE, TO THE SATISFACTION OF THE ENGINEER AND UTILITY OWNER.
- GRADING SHALL PROVIDE POSITIVE DRAINAGE TO ALL DRAIN INLET STRUCTURES.
- DURING CONSTRUCTION, ALL STRUCTURES OF THE EXISTING SYSTEM AND NEW SYSTEM OF DRAINS SHALL BE PROTECTED AGAINST SEDIMENTATION AND DEBRIS.

DRAINAGE NOTES (CONTINUED)

- ALL DRAINAGE STRUCTURES AND PIPING SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND REQUIRED LOADING, AS SHOWN IN THE CONTRACT DOCUMENTS.
- 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 THE 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.

UTILITY NOTES

- ALL UNDERGROUND UTILITIES AS SHOWN WERE COMPILED USING FIELD OBSERVATIONS AND AVAILABLE RECORD INFORMATION.
- RECORD UTILITY INFORMATION FROM THE VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES ARE APPROXIMATE ONLY AND ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD.
- ALL UTILITY COMPANIES PUBLIC AND PRIVATE MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN (SEE CHAPTER 370, ACTS OF 1963, MASSACHUSETTS), PRIOR TO DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORING OR REPAVING.
- THE LOCATION OF EXISTING PIPES OR OTHER UNDERGROUND STRUCTURES ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES OR STRUCTURES ARE SHOWN. IN ACCORDANCE WITH MGL CHAPTER 82, SECTION 40, 40A-40E INCLUDING AMENDMENTS, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES, TOWN OF BOURNE, AND GOVERNMENT AGENCIES INCLUDED IN THIS PROJECT IN WRITING PRIOR TO ANY EXCAVATION WORK. CALL "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO ANY EXCAVATION WORK TO OBTAIN ACCURATE UTILITY LOCATIONS.
- A SUBSURFACE UTILITY ENGINEERING INVESTIGATION (SUE) WAS PERFORMED BY OVERLAND ENGINEERING, LLC AND COMPLETED ON 10/24/2023 FOR THIS PROJECT. THE EXISTING UNDERGROUND FACILITIES SHOW ON ALL SHEETS. THESE UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERING'S DOCUMENT ASCE 38-02 "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA
- INVERTS SHOWN ON PLAN ARE NOT GUARANTEED TO BE ACCURATE AND ARE SHOWN FOR BIDDING PURPOSES ONLY. DUE TO THE LIMITATIONS OF FIELD OBSERVATION AND SURVEY TECHNIQUES THE INVERTS ARE SHOWN AS APPROXIMATE ONLY AND SHALL NOT BE WARRANTED TO BE CORRECT. ADDITIONAL FIELD INVESTIGATION IS NECESSARY WHERE ACCURATE MEASUREMENTS ARE REQUIRED FOR DESIGN OF CRITICAL AREAS AND SHALL BE APPROVED BY THE ENGINEER.
- REMOVAL OF PIPE 12 INCH PIPE OR SMALLER IS CONSIDERED INCIDENTAL TO EXCAVATION FOR PROPOSED WORK WHERE ENCOUNTERED.

PAVEMENT NOTES:

- ALL PERMANENT HOT MIX ASPHALT PAVEMENTS WILL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 450 HOT MIX ASPHALT PAVEMENT AND SECTION 450 SUPERPAVE HOT MIX ASPHALT PAVEMENT SPECIFICATIONS.
- ALL SUPERPAVE HMA COURSES WILL BE MANUFACTURED WITH A PERFORMANCE GRADE ASPHALT BINDER (PGAB), SEE SPECIAL PROVISIONS FOR TYPE.
- ALL PERMANENT SUPERPAVE MIXTURES WILL BE MODIFIED USING A WARM MIX ASPHALT ADDITIVE THAT IS ON THE NORTHEAST ASPHALT USER PRODUCER GROUP (NEAUPG) QUALIFIED PRODUCTS LIST AND THAT COMPLIES WITH MASSDOT WMA SPECIAL PROVISIONS.
- ASPHALT EMULSION FOR TACK COAT (RS-1h) WILL BE SPRAY APPLIED FOR UNIFORM COVERAGE OVER MICRO-MILLED SURFACES AND SMOOTH SURFACES. SEE SECTION 450.43 OF THE 2022 STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES FOR APPLICATION RATES.
- EXISTING SUBBASE MATERIAL MEETING MATERIAL SPECIFICATION M1.03.0 GRAVEL BORROW, TYPE b WILL BE RETAINED. EXISTING SUBBASE NOT CONFORMING TO THE MATERIAL SPECIFICATION M1.03.0 GRAVEL BORROW, TYPE b WILL BE REMOVED TO THE REQUIRED DEPTH AND REPLACED WITH GRAVEL BORROW, TYPE b.
- HMA FOR PATCHING, ASPHALT EMULSION FOR TACK COAT AND HMA JOINT SEALANT WILL BE PER SECTION 450.
- SUPERPAVE LEVELING COURSE SHALL ONLY APPLIED IN LOCATIONS WHERE REQUIRED CROSS SLOPES CANNOT BE ACHIEVED WITH MICROMILLING, WITH APPROVAL BY THE ENGINEER.

TRAFFIC NOTES

- SEE TRAFFIC DETAIL SHEET 140 FOR MINIMUM MOUNTING HEIGHT OF POST MOUNTED SIGNS.
- TRAFFIC SIGNAL CONDUIT SHALL BE 3" SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.

TEMPORARY TRAFFIC CONTROL

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR TRAFFIC MANAGEMENT AND TO COMPLY WITH CONDITIONS OUTLINED WITHIN THE SPECIFICATIONS AND MASSDOT HIGHWAY DIVISION STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS MANUAL.
- CONTRACTOR SHALL SUBMIT TO THE RESIDENT ENGINEER TRAFFIC MANAGEMENT PLANS FOR REVIEW AND APPROVAL BY MASSDOT HIGHWAY DIVISION. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION EFFORT WITH OTHER PROJECTS IN THE VICINITY IN ORDER TO MINIMIZE POTENTIAL TRAFFIC IMPACTS.
- PLACEMENT OF CONSTRUCTION SIGNING, TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR EACH SET UP SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- TYPICAL DAYTIME WORK HOURS ARE FROM 7:00 AM TO 3:30 PM ON WEEKDAYS, UNLESS OTHERWISE PERMITTED BY MASSDOT HIGHWAY DIVISION. WORK SHALL NOT BE PERFORMED THE DAY BEFORE OR THE DAY AFTER A HOLIDAY WEEKEND, UNLESS OTHERWISE PERMITTED BY MASSDOT HIGHWAY DIVISION. DAYTIME WORK HOURS DURING LANE CLOSURES ARE FROM 9:00 AM TO 3:00 PM. NIGHT WORK WILL BE ALLOWED WITH MASSDOT APPROVAL. ALL WORK SCHEDULES SHALL BE PRE-APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING WORK.

TEMPORARY TRAFFIC CONTROL - CHANNELIZATION

- CHANNELIZATION SHALL BE ACCOMPLISHED THROUGH THE USE OF REFLECTORIZED PLASTIC DRUMS IN ACCORDANCE WITH THE CURRENT M.U.T.C.D. THE FIRST 10 DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING TYPE A LIGHTS.
- ALL DRUMS SHALL BE PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES. WORK MAY REQUIRE ADDITIONAL SIGNS, DRUMS, AND OTHER TRAFFIC CONTROL DEVICES.
- THE SPACING BETWEEN CHANNELIZATION DEVICES (DRUMS OR CONES) SHALL BE EQUAL TO THE SPEED LIMIT OF THE ROADWAY IN FEET.

TEMPORARY TRAFFIC CONTROL - GRADE DIFFERENCES

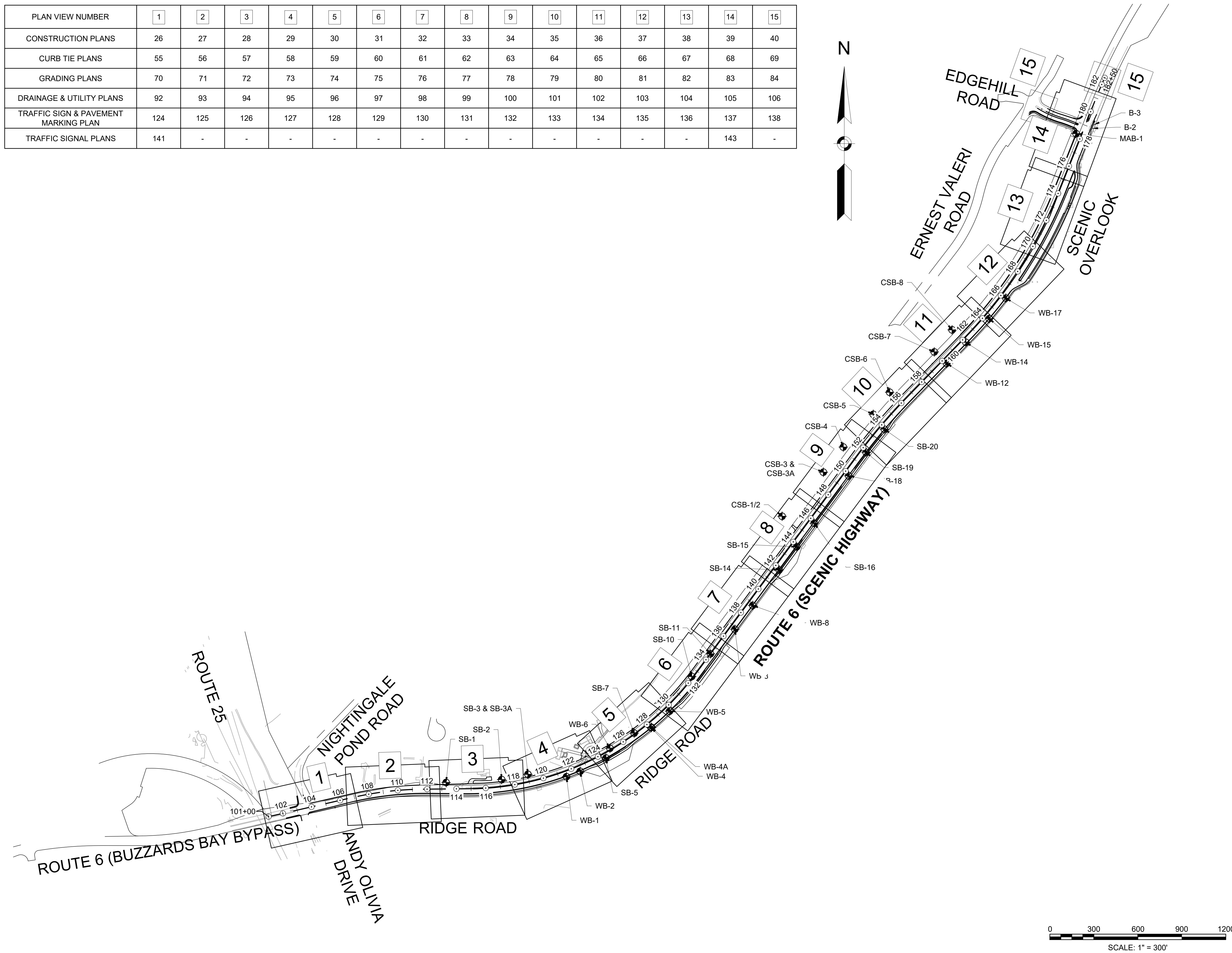
- WHERE THERE IS A TRANSVERSE DIFFERENCE IN ELEVATION BETWEEN EXISTING PAVEMENT AND MILLED OR NEW PAVEMENT, THE CONTRACTOR SHALL PATCH A TEMPORARY HMA WEDGE WITH A 12:1 (OR FLATTER) SLOPE FOR A SMOOTH TRANSITION.
- CROSS-SECTIONAL GRADE DIFFERENCE IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS OR CONES, AS DIRECTED BY MASSDOT HIGHWAY DIVISION.
- 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.

PLAN VIEW NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CONSTRUCTION PLANS	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CURB TIE PLANS	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69
GRADING PLANS	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
DRAINAGE & UTILITY PLANS	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106
TRAFFIC SIGN & PAVEMENT MARKING PLAN	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138
TRAFFIC SIGNAL PLANS	141	-	-	-	-	-	-	-	-	-	-	-	-	143	-

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	4	272
PROJECT FILE NO.		606082	

**KEY PLAN**





**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	5	272
PROJECT FILE NO.			606082

**AS-DRILLED BORING LOGS  
SHEET 1 OF 11**

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Taunton, Massachusetts, 02718		<b>Boring No. CSB-1/2</b> Scale:			
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 1 of 2		
Location: RT 6 W WATER TOWER		Date & Time Started: 12/14/2023 9:30	Total Hours:		
Groundwater Depth (Feet): N/E	Date & Time: 12/14/2023 15:00	Date & Time Completed: 12/14/2023 14:30	5		
Coordinates (Feet): N 2737974.5 E 907407.7	Driller's Name: Nick Crowley	Helper's Name: Gary Twombly Jr			
Ground Elevation (Feet): 102	Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	8-18-19-30	13	0.0 - 2.0' Top 2" Topsoil, Upper 6" Dry, Dense, Brown, COARSE TO FINE SAND, trace fine gravel; Lower 5" Dry, Dense, Light Brown, COARSE TO FINE SAND, trace fine gravel.  Start 4" casing and rotary wash.	102
SS-2	5-7	11-12-14-19	9	5.0 - 7.0' Moist, medium dense, Brown, COARSE TO FINE SAND, little inorganic silt. Fine gravel wash.	97
SS-3	10-12	14-19-22-20	9	10.0 - 12.0' Top 1.5" Dry, Dense, Brown, COARSE TO FINE SAND, Bottom 7.5" Dry, Dense, Brown and Orange INORGANIC SILT, some fine sand.	92
UNDIST-1	12-14	P-U-S-H		12.0 - 14.0' TUBE BENT, Coarse Sand, gravel, and 3" cobbles in tube.	87
SS-4	15-17	13-30-51-48	9	15.0 - 17.0' Moist, Very Dense, Brown, COARSE TO FINE SAND, trace fine gravel.	81
Remarks: Arrow-Board - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Protective Device - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Type of Drill Rig: Drill Mobile B-57 Casing Type: Steel Pipe Hammer Weight: 140 Fall: 30" Depth: 35 Sampler Type: Spoon Size 2" Automatic Hammer Weight: 140# Safety Hammer Weight: 140# Donut Hammer Weight: - Fall: 30" N = Sum of Second and Third 6" Blow Counts Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less Core Barrel Type: - Size: -					

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Taunton, Massachusetts, 02718		<b>Boring No. CSB-1/2</b> Scale:			
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 2 of 2		
Location: RT 6 W WATER TOWER		Date & Time Started: 12/14/2023 9:30	Total Hours:		
Groundwater Depth (Feet): N/E	Date & Time: 12/14/2023 15:00	Date & Time Completed: 12/14/2023 14:30	5		
Coordinates (Feet): N 2737974.5 E 907407.7	Driller's Name: Nick Crowley	Helper's Name: Gary Twombly Jr			
Ground Elevation (Feet): 102	Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-5	20-22	9-28-31-27	6	20.0 - 22.0' Moist, Very Dense, Brown, COARSE SAND, some medium to fine gravel.	82
SS-6	25-27	26-26-35-38	6	25.0 - 27.0' Moist, Very Dense, Brown, COARSE TO FINE SAND, some medium to fine gravel.	76
SS-7	30-32	53-38-33-30	7	30.0 - 32.0' Moist, Very Dense, Brown, COARSE TO FINE SAND, some medium to fine gravel; 2" gravel at top of spoon.	69
SS-8	35-37	21-26-31-27	6	35.0 - 37.0' Moist, Very Dense, Brown, COARSE TO FINE SAND, some medium to fine gravel.  END OF BORING 37 FT.	35
Remarks: Arrow-Board - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Protective Device - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Type of Drill Rig: Drill Mobile B-57 Casing Type: Steel Pipe Hammer Weight: 140 Fall: 30" Depth: 35 Sampler Type: Spoon Size 2" Automatic Hammer Weight: 140# Safety Hammer Weight: 140# Donut Hammer Weight: - Fall: 30" N = Sum of Second and Third 6" Blow Counts Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less Core Barrel Type: - Size: -					

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Taunton, Massachusetts, 02718		<b>Boring No. CSB-3</b> Scale:			
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 1 of 1		
Location: DPW YARD STA 149+00		Date & Time Started: 12/5/2023 1:30	Total Hours:		
Groundwater Depth (Feet): N/E	Date & Time: 12/6/2023 13:30	Date & Time Completed: 12/6/2023 7:30	1.5		
Coordinates (Feet): N 2738270.3 E 907691	Driller's Name: Zack Ohman	Helper's Name: Justin Maderia			
Ground Elevation (Feet): 116.4	Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	2-3-4-7	17	0.0 - 2.0' Top 6" Top Soil, little coarse to fine gravel. Middle 3" Dry, Loose, Yellow to Brown, COARSE TO FINE SAND, Bottom 6" Dry, Loose, Orange, COARSE TO FINE SAND, little coarse gravel.  Start 5" casing and rotary wash.	116
SS-2	5-7	5-6-12-1006"	14	5.0 - 7.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, some coarse to fine gravel.  Casing Refusal at 8' due to probable boulder. End of Day 12/5/2023 3PM. END OF BORING 8 FT.	111
Remarks: Boulder at 8' BGS. Unable to advance. Offset 5' N-NW. Arrow-Board - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Protective Device - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Type of Drill Rig: Dredrich D-50 Casing Type: Steel Pipe Hammer Weight: 140 Fall: 30" Depth: 15 Sampler Type: Spoon Size 2" Automatic Hammer Weight: 140# Safety Hammer Weight: 140# Donut Hammer Weight: - Fall: 30" N = Sum of Second and Third 6" Blow Counts Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less Core Barrel Type: - Size: -					

**BORING NOTES:**

- LOCATION OF BORINGS SHOWN ON THE PLAN THUS:  
 SB-X STORMWATER BORING  
 CSB-X CUT SLOPE BORING  
 WB-X WALL BORING  
 MAB-X MAST ARM BORING
- BORINGS ARE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
- TEN (10) PLANNED WALL BORINGS, DESIGNATED BETWEEN WB-1 TO WB-17, WERE DRILLED AS HOLLOW STEM AUGER (HSA) TO DEPTHS BETWEEN ABOUT 22.0 TO 27.0 FEET BELOW GROUND SURFACE (BGS).
- SEVEN (7) PLANNED CUT SLOPE WALL BORINGS, DESIGNATED BETWEEN CSB-1/2 TO CSB-8, WERE DRILLED USING DRIVE-AND-WASH METHOD TO DEPTHS BETWEEN ABOUT 37 TO 81 FEET BGS.
- FIVE (5) PLANNED STORMWATER BORINGS, DESIGNATED AS SB-11, SB-14, SB-18, SB-19, AND SB-20 WERE DRILLED AS HOLLOW STEM AUGER (HSA) TO DEPTHS BETWEEN ABOUT 18.0 TO 27.0 FEET BGS.
- NINE (9) PLANNED STORMWATER GEOPROBES, DESIGNATED BETWEEN SB-1 TO SB-16 WERE ADVANCED TO DEPTHS ABOUT 10.0 FEET BGS.
- ONE (1) PLANNED MAST ARM BORING, DESIGNATED AS MAB-1 WAS ADVANCED AS HSA TO A DEPTH ABOUT 22.0 FEET BGS.
- WATER LEVELS SHOWN ON THE BORING LOGS WERE OBSERVED AT THE TIME OF TAKING BORINGS AND DO NOT NECESSARILY SHOW THE TRUE GROUND WATER LEVEL.
- FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 3/8" I.D. SPLIT SPOON SAMPLER 6" USING A 140 POUND WEIGHT FALLING 30".
- BORING SAMPLES ARE STORED AT A STORAGE FACILITY LOCATED ON ROUTE 114 (219 WINTHROP AVE.) IN LAWRENCE, MA. THE CONTRACTOR MAY EXAMINE THE SOIL AND ROCK SAMPLES BY CONTACTING THE MASSDOT GEOTECHNICAL SECTION AT 10 PARK PLAZA, BOSTON, MA.
- ALL BORINGS WERE MADE FROM NOVEMBER 30, 2023, TO JANUARY 4, 2024.
- BORINGS WERE MADE NEW ENGLAND BORING CONTRACTORS, 250 CAPE HWY. UNIT 12 EAST TAUNTON, MA 02718.
- THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.
- GROUND WATER: THE WATER LEVELS RECORDED IN THE TABLE ARE THOSE MEASURED ON THE DATES GIVEN AND DO NOT NECESSARILY REPRESENT GROUND WATER LEVEL AT TIME OF CONSTRUCTION.

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Taunton, Massachusetts, 02718		<b>Boring No. CSB-3A</b> Scale:			
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 1 of 3		
Location: DPW YARD STA 149+00		Date & Time Started: 12/6/2023 7:30	Total Hours:		
Groundwater Depth (Feet): 37	Date & Time: 12/6/2023 13:30	Date & Time Completed: 12/6/2023 13:15	5.75		
Coordinates (Feet): N 2738274.9 E 907689	Driller's Name: Zack Ohman	Helper's Name: Justin Maderia			
Ground Elevation (Feet): 116.4	Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
				Unable to advance CSB-3 past 6" BGS, CASING REFUSAL, probable boulder. Offset 5' N-NW. Start drilling 12/6/2023 7:30AM.	116
SS-3	10-12	5-12-15-15	9	10.0 - 12.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, Fine gravel wash at top of spoon.	110
SS-4	15-17	12-11-15-17	9	15.0 - 17.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, little fine gravel.  Switch to mud rotary wash.	106
Remarks: Hole is offset 5' N-NW from CSB-3 from start due to boulder. Groundwater depth was assessed after completion of drilling activities. Arrow-Board - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Protective Device - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Type of Drill Rig: Dredrich D-50 Casing Type: Steel Pipe Hammer Weight: 140 Fall: 30" Depth: 15 Sampler Type: Spoon Size 2" Automatic Hammer Weight: 140# Safety Hammer Weight: 140# Donut Hammer Weight: - Fall: 30" N = Sum of Second and Third 6" Blow Counts Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less Core Barrel Type: - Size: -					

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Taunton, Massachusetts, 02718		<b>Boring No. CSB-3A</b> Scale:			
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 2 of 3		
Location: DPW YARD STA 149+00		Date & Time Started: 12/6/2023 7:30	Total Hours:		
Groundwater Depth (Feet): 37	Date & Time: 12/6/2023 13:30	Date & Time Completed: 12/6/2023 13:15	5.75		
Coordinates (Feet): N 2738274.9 E 907689	Driller's Name: Zack Ohman	Helper's Name: Justin Maderia			
Ground Elevation (Feet): 116.4	Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-5	20-22	7-9-8-11	9	20.0 - 22.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, little inorganic silt.	96
SS-6	25-27	10-15-16-19	12	25.0 - 27.0' Dry, Dense, Brown, COARSE TO FINE SAND, trace fine gravel. Bottom 4" Dry, Dense, Brown, INORGANIC SILT, trace fine gravel. Fine gravel wash in top of spoon.	91
SS-7	30-32	9-14-17-20	12	30.0 - 32.0' Dry, Dense, Brown, COARSE TO FINE SAND, little inorganic silt. Fine gravel in spoon tip.	86
SS-8	35-37	15-22-31-40	11	35.0 - 37.0' Moist, Very Dense, Brown, COARSE TO FINE SAND, Fine gravel in spoon tip.	81
Remarks: Hole is offset 5' N-NW from CSB-3 from start due to boulder. Groundwater depth was assessed after completion of drilling activities. Arrow-Board - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Protective Device - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Type of Drill Rig: Dredrich D-50 Casing Type: Steel Pipe Hammer Weight: 140 Fall: 30" Depth: 15 Sampler Type: Spoon Size 2" Automatic Hammer Weight: 140# Safety Hammer Weight: 140# Donut Hammer Weight: - Fall: 30" N = Sum of Second and Third 6" Blow Counts Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less Core Barrel Type: - Size: -					

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Taunton, Massachusetts, 02718		<b>Boring No. CSB-3A</b> Scale:			
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 3 of 3		
Location: DPW YARD STA 149+00		Date & Time Started: 12/6/2023 7:30	Total Hours:		
Groundwater Depth (Feet): 37	Date & Time: 12/6/2023 13:30	Date & Time Completed: 12/6/2023 13:15	5.75		
Coordinates (Feet): N 2738274.9 E 907689	Driller's Name: Zack Ohman	Helper's Name: Justin Maderia			
Ground Elevation (Feet): 116.4	Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-9	40-42	30-17-16-26	14	40.0 - 42.0' Dry, Dense, Brown, COARSE TO FINE SAND, little fine gravel.	76
SS-10	45-47	14-14-19-21	11	45.0 - 47.0' Dry, Dense, Brown, COARSE TO FINE SAND, some medium to fine gravel.	65
SS-11	50-52	16-19-27-36	11	50.0 - 52.0' Dry, Dense, Brown, COARSE TO FINE SAND, some medium to fine gravel.  END OF BORING 52 FT.	60
Remarks: Hole is offset 5' N-NW from CSB-3 from start due to boulder. Groundwater depth was assessed after completion of drilling activities. Arrow-Board - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Protective Device - Stand - Box Well Depth - Solid Pipe - Signs - Stick Up Pipe Screen Pipe - Cones - Type of Drill Rig: Dredrich D-50 Casing Type: Steel Pipe Hammer Weight: 140 Fall: 30" Depth: 15 Sampler Type: Spoon Size 2" Automatic Hammer Weight: 140# Safety Hammer Weight: 140# Donut Hammer Weight: - Fall: 30" N = Sum of Second and Third 6" Blow Counts Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less Core Barrel Type: - Size: -					

New England Boring Contractors				Boring No. CSB-4																																																																			
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:																																																																			
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082																																																																			
Location: DPW YARD STA 151+20		Date & Time Started: 12/4/2023 2:45		Page 1 of 4																																																																			
Groundwater Depth (Feet): 39.3		Date & Time: 12/5/2023 13:15		Date & Time Completed: 12/5/2023 13:15																																																																			
Coordinates (Feet): N 2738446.2 E 907824.8		Driller's Name: Zack Ohman		Helper's Name: Justin Madleria																																																																			
Ground Elevation (Feet): 125		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB																																																																			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes																																																																		
SS-1	0-2	1-2-3-3	18	0.0 - 2.0' Top 4" Topsoil. 14" Dry, Loose, Brown, COARSE TO FINE SAND, little inorganic silt.  Start 5" casing and rotary wash.	125																																																																		
SS-2	5-7	2-3-3-4	18	5.0 - 7.0' Dry, Loose, Yellow, Black and Orange, COARSE TO FINE SAND, little inorganic silt.	120																																																																		
SS-3	10-12	2-2-6-7	15	10.0 - 12.0' Dry, Loose, Yellow, Black and Orange, COARSE TO FINE SAND, little inorganic silt.  12.0 - End of Day 12/4/2023 3:30PM. Begin drilling 12/5/2023 7:15AM.	115																																																																		
SS-4	15-17	5-10-14-9	5	15.0 - 17.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND and coarse to fine gravel, little inorganic silt.  Switch to mud rotary wash.	110																																																																		
Remarks: Groundwater depth was assessed after completion of drilling activities.																																																																							
<table border="1"> <tr> <th colspan="4">Penetration Resistance (N) Guide</th> <th colspan="2">Type of Drill Rig: Diedrich D-50</th> </tr> <tr> <th colspan="2">Cohesionless Soils (Sands, Gravels)</th> <th colspan="2">Cohesive Soils (Sills, Clays)</th> <th colspan="2">Casing Type: Steel Pipe</th> </tr> <tr> <th>Relative Density</th> <th>Penetration Resistance</th> <th>Consistency</th> <th>Penetration Resistance</th> <th>Hammer Weight: 140</th> <th>Size 5"</th> </tr> <tr> <td>Very Loose</td> <td>0-4</td> <td>Very Soft</td> <td>0-2</td> <td>Fall: 30"</td> <td>Depth: 15</td> </tr> <tr> <td>Loose</td> <td>4-10</td> <td>Soft</td> <td>2-4</td> <td colspan="2">Sampler Type: Spoon</td> </tr> <tr> <td>Medium Dense</td> <td>10-30</td> <td>Medium Stiff</td> <td>4-8</td> <td colspan="2">Automatic Hammer Weight: 140#</td> </tr> <tr> <td>Dense</td> <td>30-50</td> <td>Stiff</td> <td>8-15</td> <td colspan="2">Safety Hammer Weight: -</td> </tr> <tr> <td>Very Dense</td> <td>Over 50</td> <td>Very Stiff</td> <td>15-30</td> <td colspan="2">Donut Hammer Weight: -</td> </tr> <tr> <td></td> <td></td> <td>Hard</td> <td>Over 30</td> <td colspan="2">Fall: 30"</td> </tr> <tr> <td colspan="6">N = Sum of Second and Third 6" Blow Counts</td> </tr> <tr> <td colspan="6">Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less</td> </tr> </table>						Penetration Resistance (N) Guide				Type of Drill Rig: Diedrich D-50		Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Casing Type: Steel Pipe		Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Hammer Weight: 140	Size 5"	Very Loose	0-4	Very Soft	0-2	Fall: 30"	Depth: 15	Loose	4-10	Soft	2-4	Sampler Type: Spoon		Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#		Dense	30-50	Stiff	8-15	Safety Hammer Weight: -		Very Dense	Over 50	Very Stiff	15-30	Donut Hammer Weight: -				Hard	Over 30	Fall: 30"		N = Sum of Second and Third 6" Blow Counts						Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					
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Location: DPW YARD STA 151+20		Date & Time Started: 12/4/2023 2:45		Page 2 of 4																																																																			
Groundwater Depth (Feet): 39.3		Date & Time: 12/5/2023 13:15		Date & Time Completed: 12/5/2023 13:15																																																																			
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SS-5	20-22	8-7-6-10	8	20.0 - 22.0' Moist, Medium Dense, Brown, COARSE TO FINE SAND, trace fine gravel.	105																																																																		
SS-6	25-27	23-26-16-13	8	25.0 - 27.0' Moist, Dense, Brown, FINE SAND.	100																																																																		
SS-7	30-32	10-13-14-15	20	30.0 - 32.0' Moist, Medium Dense, Brown, COARSE TO FINE SAND, Top 10" COARSE SAND AND FINE GRAVEL. Gravel wash at top of spoon.	95																																																																		
SS-8	35-37	8-10-14-20	8	35.0 - 37.0' Moist, Medium Dense, Brown, COARSE TO FINE SAND, trace inorganic silt.	90																																																																		
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SS-9	40-42	15-22-29-23	12	40.0 - 42.0' Moist, Very Dense, Brown, FINE SAND, some clayey inorganic silt, stratified.	85																																																																		
SS-10	45-47	11-14-21-17	12	45.0 - 47.0' Moist, Dense, Brown, COARSE TO FINE SAND, little inorganic silt.	80																																																																		
SS-11	50-52	15-12-12-18	9	50.0 - 52.0' Moist, Medium Dense, Brown, COARSE TO FINE SAND, little medium to fine gravel, little inorganic silt.	75																																																																		
SS-12	55-57	9-11-14-19	11	55.0 - 57.0' Moist, Medium Dense, Brown COARSE TO FINE SAND, little coarse to fine gravel.	70																																																																		
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<b>BOURNE</b>			
<b>MEDIAN INSTALLATION ON</b>			
<b>ROUTE 6 (SCENIC HIGHWAY)</b>			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	6	272
PROJECT FILE NO.		606082	

**AS-DRILLED BORING LOGS**  
**SHEET 2 OF 11**

New England Boring Contractors				Boring No. CSB-4																																																																			
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:																																																																			
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SS-13	60-62	13-18-20-24	10	60.0 - 62.0' Moist, Dense, Brown, COARSE TO FINE SAND, trace medium gravel.  END OF BORING 62 FT.	65																																																																		
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Groundwater Depth (Feet): 27.1		Date & Time: 12/4/2023 14:30		Date & Time Completed: 12/4/2023 12:15																																																																			
Coordinates (Feet): N 2738669.3 E 908029.3		Driller's Name: Zack Ohman		Helper's Name: Tung Pham																																																																			
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SS-1	0-2	1-2-4-4	18	0.0 - 2.0' Top 7" Top Soil, some roots. Middle 4" Moist, Loose, Brown, COARSE TO FINE SAND, some coarse gravel, little inorganic silt. Bottom 7" Moist, Loose, Orange, COARSE TO FINE SAND, some medium to fine gravel, trace inorganic silt.  Start 5" casing and rotary wash.	132																																																																		
SS-2	4-6	4-4-5-8	3	4.0 - 6.0' NO RECOVERY. 3" Fine gravel wash.	127																																																																		
SS-3	9-11	4-5-6-7	8	9.0 - 11.0' Moist, Medium Dense, Brown, COARSE TO FINE SAND, trace inorganic silt. Fine gravel wash at top of spoon.	122																																																																		
SS-4	14-16	7-5-7-6	7	14.0 - 16.0' Moist, Medium Dense, Light Brown, FINE SAND, little inorganic silt, trace gravel. Fine gravel wash at top of spoon.	117																																																																		
SS-5	19-21	3-5-7-6	0	19.0 - 21.0' NO RECOVERY. Fine gravel wash in spoon.	112																																																																		
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SS-8	34-36	4-9-8-15	8	34.0 - 36.0' Moist, Brown, Medium Dense FINE SAND and Very Stiff INORGANIC SILT. Middle 3" Brown, Black, and Orange Firm INORGANIC SILT.	97																																																																		
36.0 - Switch to 4" casing.																																																																							
SS-9	39-41	9-10-16-20	12	39.0 - 41.0' Moist, Medium Dense, Red to Brown to Green, COARSE TO FINE SAND AND MEDIUM TO FINE GRAVEL, little inorganic silt.	92																																																																		
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New England Boring Contractors				Boring No. CSB-5																																																													
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SS-9	39-41	9-10-16-20	12	39.0 - 41.0' Moist, Medium Dense, Red to Brown to Green, COARSE TO FINE SAND AND MEDIUM TO FINE GRAVEL, little inorganic silt.	92																																																												
SS-11	44-46	16-14-17-18	12	44.0 - 46.0' Moist, Gray, Very Stiff, INORGANIC SILT, trace fine sand. PP = 0.3, 0.4, 0.3 tsf. TV = 0.75 tsf.	95																																																												
SS-12	49-51	11-16-17-20	18	49.0 - 51.0' Top 7" Moist, Very Stiff, Brown, INORGANIC SILT, orange vein near 3". Middle 7" Moist, Dense, Brown, FINE SAND, some inorganic silt. Bottom 4" Moist, Very Stiff, Brown, INORGANIC SILT. 51.0' Start 4" casing with mud rotary wash.	99																																																												
SS-13	54-56	10-12-25-21	10	54.0 - 56.0' Top 7" Moist, Dense, Brown, COARSE SAND Bottom 3" Wet, Dense, Brown, coarse to fine gravel.	99																																																												
SS-14	59-61	27-33-33-21	7	59.0 - 61.0' Dry, Very Dense, Brown, COARSE TO FINE SAND and coarse to fine gravel.	99																																																												
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SS-15	64-66	23-27-36-35	16	64.0 - 66.0' Dry, Very Dense, Brown, COARSE TO FINE SAND.	95																																																												
SS-16	69-70.75	29-51-1000"	9	69.0 - 71.0' Moist, Very Dense, Brown, COARSE TO FINE SAND, some medium to fine gravel.	99																																																												
SS-17	74-76	29-36-44-47	12	74.0 - 76.0' Moist, Very Dense, Brown, COARSE TO FINE SAND, trace medium to fine gravel.	99																																																												
SS-18	79-80.8	33-43-604"	11	79.0 - 81.0' Moist, Very Dense, Brown, COARSE TO FINE SAND.	99																																																												
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**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	7	272
PROJECT FILE NO.		606082	

**AS-DRILLED BORING LOGS  
SHEET 3 OF 11**

New England Boring Contractors				Boring No. CSB-6																																																													
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:																																																													
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082																																																													
Location: DPW YARD STA 155+86		Date & Time Started: 11/30/2023 8:15		Page 1 of 3																																																													
Groundwater Depth (Feet): 39.3		Date & Time: 12/1/2023 9:45		Date & Time Completed: 12/1/2023 9:30																																																													
Coordinates (Feet): N 2738819.9 E 908141.1		Driller's Name: Zack Ohman		Helper's Name: Chris Knight																																																													
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Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes																																																												
SS-1	0-2	2-6-6-6	13	0.0 - 2.0' Top 8" Dry, Medium Dense, Dark Brown, TOP SOIL, trace roots. Bottom 5" Moist, Medium Dense, Dark Brown, COARSE TO FINE SAND, little inorganic silt.	134																																																												
SS-2	4-6	4-5-6-6	15	4.0 - 6.0' Top 114" Top Soil. Dry, Medium Dense, Yellow, COARSE TO FINE SAND, little medium to fine gravel. Start 4" casing and rotary wash.	139																																																												
SS-3	9-11	7-7-7-7	0	9.0 - 11.0' NO RECOVERY.	140																																																												
SS-4	14-16	5-5-6-7	9	14.0 - 16.0' Wet, Medium Dense, Brown, COARSE TO FINE SAND.	145																																																												
SS-5	19-21	5-5-6-8	8	19.0 - 21.0' Moist, Medium Dense, Brown, COARSE TO FINE SAND, trace coarse to fine gravel.	149																																																												
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SS-6	24-26	3-3-5-7	6	24.0 - 26.0' Dry, Loose, Brown, COARSE TO FINE SAND, trace coarse to fine gravel.	149																																																												
SS-7	29-31	6-6-5-10	8	29.0 - 31.0' Moist, Medium Dense, Brown, COARSE TO FINE SAND, little fine gravel. Fine gravel wash in uppermost 1" of sample.	149																																																												
SS-8	34-36	5-7-9-12	9	34.0 - 36.0' Moist, Medium Dense, Brown, COARSE TO FINE SAND, little fine gravel.	155																																																												
SS-9	39-41	5-7-10-12	14	39.0 - 41.0' Moist, Medium Dense, Brown, COARSE TO FINE SAND, trace coarse to fine gravel.	159																																																												
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SS-9	39-41	5-7-10-12	14	39.0 - 41.0' Moist, Very Stiff, Brown, CLAYEY INORGANIC SILT, some coarse to fine sand, some clay. pp=0 TV=1.0 tsf.	154																																																												
SS-10	44-45.75	14-11-17-1003"	10	44.0 - 45.6' Moist, Medium Dense, Light Brown, COARSE TO FINE SAND, some inorganic silt. Fine gravel in spoon tip.	159																																																												
End of Day 11/30/2023 1:00PM. Begin drilling 12/1/2023 8:00AM. 46.0 - 49.0' Casing Refusal: Boulder 46" to 49".																																																																	
SS-11	49-51	11-12-12-14	9	49.0 - 51.0' Wet, Medium Dense, Brown, COARSE TO FINE SAND, little medium to fine gravel, trace inorganic silt.	160																																																												
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SS-1	0-2	WOH® - 1-2-1	14	0.0 - 2.0' Top 3" Black & Ash Gray Top Soil. Middle 3" Moist, Very Loose, Dark Brown, FINE SAND, some inorganic silt. Bottom 8" Moist, Very Loose, Orange, COARSE TO FINE SAND, little inorganic silt, trace medium gravel. Start 5" casing and rotary wash.	125																																																																		
SS-2	5-7	21-16-11-8	2	5.0 - 7.0' Moist, Medium Dense, Orange to Brown, COARSE TO FINE SAND, 2" white ash rocks.	120																																																																		
SS-3	10-12	9-8-6-7	5	10.0 - 12.0' Top 3" Moist, Medium Dense, Brown, COARSE SAND, little fine gravel.	115																																																																		
SS-4	15-17	6-2-6-10	2	15.0 - 17.0' Top 3" gravel wash, Moist, Loose to Medium Dense, Brown, COARSE TO FINE SAND. Switch to mud rotary wash.	110																																																																		
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SS-6	25-27	8-10-15-16	5	25.0 - 27.0' Dry, Medium Dense, Light Brown, COARSE TO FINE SAND AND INORGANIC SILT.	100																																																																		
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SS-8	35-37	10-11-17-18	8	35.0 - 37.0' Moist, Medium Dense, Brown, COARSE TO FINE SAND, some coarse to fine gravel.	90																																																																		
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MEDIAN INSTALLATION ON			
ROUTE 6 (SCENIC HIGHWAY)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	8	272
PROJECT FILE NO.		606082	

AS-DRILLED BORING LOGS  
SHEET 4 OF 11

New England Boring Contractors				Boring No. CSB-8																																																																			
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SS-1	0-2	WOH® - 1-1-2	13	0.0 - 2.0' Top 2" Top Soil Peat, decomposed plants. Middle 4" Dry, Very Loose, Dark Brown, COARSE TO FINE SAND. Bottom 7" Dry, Very Loose, Brown, FINE SAND AND COARSE GRAVEL, some roots. Start 5" casing and rotary wash.	123																																																																		
SS-2	5-7	5-6-6-8	14	5.0 - 7.0' Dry, Medium Dense, Brown, COARSE SAND, trace medium to fine gravel.	118																																																																		
SS-3	10-12	2-5-4-6	22	10.0 - 12.0' Dry, Loose, Brown, FINE SAND, little inorganic silt, trace medium fine gravel.	113																																																																		
SS-4	15-17	6-6-9-10	10	15.0 - 17.0' Moist, Medium Dense, Brown, FINE SAND, some inorganic silt. Clayey inorganic silt and fine sand at top. PP= 0.2 bl. Switch to mud rotary wash.	108																																																																		
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SS-8	35-37	16-22-18-19	15	35.0 - 37.0' Moist, Dense, Brown, COARSE TO COARSE SAND and medium to fine gravel.	88																																																																		
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Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Hammer Weight: 140	Size 5"																																																																		
Very Loose	0-4	Very Soft	0-2	Fall: 30"	Depth: 15																																																																		
Loose	4-10	Soft	2-4	Sampler Type: Spoon																																																																			
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#																																																																			
Dense	30-50	Stiff	8-15	Safety Hammer Weight: -																																																																			
Very Dense	Over 50	Very Stiff	15-30	Donut Hammer Weight: -																																																																			
			Over 30	Fall: 30"																																																																			
N = Sum of Second and Third 6" Blow Counts																																																																							
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less																																																																							



New England Boring Contractors				Boring No. MAB-1	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 W EDGEHILL RD		Date & Time Started: 1/4/2024 11:35		Page 1 of 2	
Groundwater Depth (Feet): N/E		Date & Time: 1/4/2024 13:00		Date & Time Completed: 1/4/2024 13:00	
Coordinates (Feet): N 2740583.4 E 909412.3		Driller's Name: Minh Pham		Helper's Name: TPham & TViele	
Ground Elevation (Feet): 128.5		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	- - 17-21	0	0.0 - 1.3' -16" HMA and SUBBASE, NO RECOVERY. Dry, Gray, COARSE GRAVEL and Dry, Brown, COARSE SAND in spoon tip.	129
SS-2	2-4	13-9-7-5	0	2.0 - 4.0' NO RECOVERY.	
SS-3	4-6	15-4-4-3	11	4.0 - 6.0' Dry, Loose, Dark Brown, COARSE TO FINE SAND, trace coarse gravel.	5
SS-4	6-8	2-4-3-4	10	6.0 - 8.0' Dry, Loose, Brown, COARSE TO FINE SAND.	10
SS-5	8-10	10-6-8-9	22	8.0 - 10.0' S-SA Top 9" Dry, Medium Dense, Brown, COARSE TO FINE SAND, S-SB Middle 4" Dry, Medium Dense, Black, FINE SAND, little inorganic silt, no evidence of organics. 9.1 - S-SC, Bottom 9" Moist, Medium Dense, Reddish Brown, FINE SAND, little inorganic silt, trace coarse gravel. 10.0 - 12.0' Dry, Loose, Medium Dense, Orange, FINE SAND, little inorganic silt.	10 11
SS-6	10-12	6-1-1-10	4	12.0 - 15.0' Inconsistent grinding and coarse gravel in auger cuttings. Potential small cobbles/boulders.	11
SS-7	15-17	3-7-20-17	16	15.0 - 17.0' Dry, Medium Dense, Brown, FINE SAND, little medium to fine gravel.	11
Remarks: 3" Hollow Stem Auger. Offset 14.4 feet into road (5.4 feet from edge of pavement).				Arrow-Board - Signs - Cones -	Protective Device - Stand - Box - Well Depth - Solid Pipe - Stick Up Pipe - Screen Pipe -
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 20
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: - Donut Hammer Weight: - Fall: -
Dense	30-50	Stiff	8-15	Over 50	Very Stiff
Very Dense	Over 50	Hard	15-30	Over 30	Hard
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Boring No. MAB-1	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 W EDGEHILL RD		Date & Time Started: 1/4/2024 11:35		Page 2 of 2	
Groundwater Depth (Feet): N/E		Date & Time: 1/4/2024 13:00		Date & Time Completed: 1/4/2024 13:00	
Coordinates (Feet): N 2740583.4 E 909412.3		Driller's Name: Minh Pham		Helper's Name: TPham & TViele	
Ground Elevation (Feet): 128.5		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-8	20-22	4-5-11-13	14	20.0 - 22.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, little coarse and fine gravel.	109
Remarks: 3" Hollow Stem Auger. Offset 14.4 feet into road (5.4 feet from edge of pavement).				Arrow-Board - Signs - Cones -	Protective Device - Stand - Box - Well Depth - Solid Pipe - Stick Up Pipe - Screen Pipe -
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 20
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: - Donut Hammer Weight: - Fall: -
Dense	30-50	Stiff	8-15	Over 50	Very Stiff
Very Dense	Over 50	Hard	15-30	Over 30	Hard
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Probe No. SB-01	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 W STA 113+30		Date & Time Started: 12/19/2023 12:30		Page 1 of 1	
Groundwater Depth (Feet): N/E		Date & Time: ---		Date & Time Completed: 12/19/2023 12:45	
Coordinates (Feet): N 2736159.7 E 905116.4		Driller's Name: Carl Downing		Helper's Name: Keller Moore	
Ground Elevation (Feet): 59.4		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	- - -		0.0 - 2.0' Asphalt, Roots, and Dry, Brown, COARSE TO FINE SAND, 0.0 - 6.0' (USDA) SANDY LOAM.	59
SS-2	2-4	- - -		2.0 - 4.0' Dry, Dark Brown and Orange, FINE SAND, some inorganic silt. Slight organic odor.	
SS-3	4-6	- - -		4.0 - 6.0' Dry, Brown, COARSE TO FINE SAND, trace grass, little inorganic silt.	50
SS-4	6-8	- - -		6.0 - 8.0' Dry, Brown, COARSE TO FINE SAND, 6.0 - 10.0' (USDA) SAND.	
SS-5	8-10	- - -		8.0 - 10.0' Dry, Brown, COARSE TO FINE SAND.	10
Remarks: Groundwater not encountered.				Arrow-Board - Signs - Cones -	Protective Device - Stand - Box - Well Depth - Solid Pipe - Stick Up Pipe - Screen Pipe -
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Geoprobe 6712DT	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: None	Size N/A
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: N/A
Loose	4-10	Soft	2-4	Sampler Type: Probe	Size 1.25"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: -	Safety Hammer Weight: - Donut Hammer Weight: - Fall: -
Dense	30-50	Stiff	8-15	Over 50	Very Stiff
Very Dense	Over 50	Hard	15-30	Over 30	Hard
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	9	272
PROJECT FILE NO.			606082

**AS-DRILLED BORING LOGS  
SHEET 5 OF 11**

New England Boring Contractors				Probe No. SB-02	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 W STA 117+15		Date & Time Started: 12/19/2023 12:00		Page 1 of 1	
Groundwater Depth (Feet): N/E		Date & Time: ---		Date & Time Completed: 12/19/2023 12:30	
Coordinates (Feet): N 2736179.6 E 905495		Driller's Name: Carl Downing		Helper's Name: Keller Moore	
Ground Elevation (Feet): 55.1		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	- - -		0.0 - 2.0' Dry, Brown, FINE SAND, trace coarse to fine gravel. 0.0 - 6.0' (USDA) SAND.	55
SS-2	2-4	- - -		2.0 - 4.0' Dry, Brown, FINE SAND, trace fine gravel.	
SS-3	4-6	- - -		4.0 - 6.0' Moist, Brown, COARSE TO FINE SAND, little coarse to fine gravel.	50
SS-4	6-8	- - -		6.0 - 8.0' Moist, Brown, FINE SAND, little inorganic silt, little fine gravel. 6.0 - 10.0' (USDA) LOAMY SAND TO SANDY LOAM.	10
SS-5	8-10	- - -		8.0 - 10.0' Moist, Brown, FINE SAND, little inorganic silt, little fine gravel.	10
Remarks: Groundwater not encountered.				Arrow-Board - Signs - Cones -	Protective Device - Stand - Box - Well Depth - Solid Pipe - Stick Up Pipe - Screen Pipe -
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Geoprobe 6712DT	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: None	Size N/A
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: N/A
Loose	4-10	Soft	2-4	Sampler Type: Probe	Size 1.25"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: -	Safety Hammer Weight: - Donut Hammer Weight: - Fall: -
Dense	30-50	Stiff	8-15	Over 50	Very Stiff
Very Dense	Over 50	Hard	15-30	Over 30	Hard
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Probe No. SB-03	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 W STA 119+00		Date & Time Started: 12/19/2023 11:15		Page 1 of 1	
Groundwater Depth (Feet): N/E		Date & Time: ---		Date & Time Completed: 12/19/2023 11:30	
Coordinates (Feet): N 2736215.322 E 905674.1		Driller's Name: Carl Downing		Helper's Name: Keller Moore	
Ground Elevation (Feet): 55.8		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	- - -		0.0 - 2.0' Topsoil, Mud, and Moist, Dark Brown, COARSE TO FINE SAND, little fine gravel. 0.0 - 5.0' (USDA) SANDY LOAM TO LOAMY SAND.	56
SS-2	2-4	- - -		2.0 - 4.0' Little Topsoil and Mud, More Dark Brown, COARSE TO FINE SAND, little fine gravel, little inorganic silt.	
SS-3	4-5	- - -		4.0 - 5.0' Moist, Dark Brown, COARSE TO FINE SAND, little fine gravel.	57
Remarks: Groundwater not encountered.				Arrow-Board - Signs - Cones -	Protective Device - Stand - Box - Well Depth - Solid Pipe - Stick Up Pipe - Screen Pipe -
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Geoprobe 6712DT	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: None	Size N/A
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: N/A
Loose	4-10	Soft	2-4	Sampler Type: Probe	Size 1.25"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: -	Safety Hammer Weight: - Donut Hammer Weight: - Fall: -
Dense	30-50	Stiff	8-15	Over 50	Very Stiff
Very Dense	Over 50	Hard	15-30	Over 30	Hard
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Probe No. SB-03A	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 W STA 119+03		Date & Time Started: 12/19/2023 11:30		Page 1 of 1	
Groundwater Depth (Feet): N/E		Date & Time: ---		Date & Time Completed: 12/19/2023 11:45	
Coordinates (Feet): N 2736215.3 E 905674.1		Driller's Name: Carl Downing		Helper's Name: Keller Moore	
Ground Elevation (Feet): 56		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	5-6	- - -		Unable to advance probe in boring SB-3. Likely boulder at 5' BGS. Offset 5' NW and begin SB-3A.	56
SS-2	6-8	- - -		5.0 - 6.0' Moist, Brown, COARSE TO FINE SAND, some clayey inorganic silt. (USDA) LOAMY SAND.	57
SS-3	8-10	- - -		6.0 - 8.0' Moist, Brown, COARSE TO FINE SAND, some coarse to fine rounded gravel. 6.0 - 10.0' (USDA) SAND.	10
Remarks: Groundwater not encountered.				Arrow-Board - Signs - Cones -	Protective Device - Stand - Box - Well Depth - Solid Pipe - Stick Up Pipe - Screen Pipe -
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Geoprobe 6712DT	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: None	Size N/A
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: N/A
Loose	4-10	Soft	2-4	Sampler Type: Probe	Size 1.25"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: -	Safety Hammer Weight: - Donut Hammer Weight: - Fall: -
Dense	30-50	Stiff	8-15	Over 50	Very Stiff
Very Dense	Over 50	Hard	15-30	Over 30	Hard
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	10	272
PROJECT FILE NO.			606082

**AS-DRILLED BORING LOGS  
SHEET 6 OF 11**

606082\_GTE(BORING LOGS)DWG Plotted on 17-Mar-2025 8:49 AM

New England Boring Contractors										Probe No. SB-05	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716										Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082		Page 1 of 1					
Location: RT 6 E STA 124+43				Date & Time Started: 12/19/2023 1:00				Total Hours:			
Groundwater Depth (Feet): N/E				Date & Time: ---				Date & Time Completed: 12/19/2023 13:30			
Coordinates (Feet): N 2736326.5 E 906206.2				Driller's Name: Carl Downing				Helper's Name: Keller Moore			
Ground Elevation (Feet): 62.3				Inspector's Name (PRINT): Chris Testa				Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description							Strata Changes
SS-1	0-2	---		0.0 - 2.0'- Very Dense, Dry, Gray, Roadway SUBBASE. 0.0 - 6.0'- (USDA) LOAMY SAND TO SAND.							62
SS-2	2-4	---		2.0 - 4.0'- Dry, Brown, COARSE TO FINE SAND, trace fine gravel.							
SS-3	4-6	---		4.0 - 6.0'- Dry, Brown, COARSE TO FINE SAND, little gray inorganic silt.							
SS-4	6-8	---		6.0 - 8.0'- Dry, Brown, COARSE TO FINE SAND. 6.0 - 10.0'- (USDA) SAND.							
SS-5	8-10	---		8.0 - 10.0'- Dry, Brown, COARSE TO FINE SAND.							
END OF PROBE 10 FT.											

New England Boring Contractors										Probe No. SB-06	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716										Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082		Page 1 of 1					
Location: RT 6 W STA 125+00				Date & Time Started: 12/19/2023 10:50				Total Hours:			
Groundwater Depth (Feet): N/E				Date & Time: ---				Date & Time Completed: 12/19/2023 11:00			
Coordinates (Feet): N 2736392.8 E 906233.6				Driller's Name: Carl Downing				Helper's Name: Keller Moore			
Ground Elevation (Feet): 65.9				Inspector's Name (PRINT): Chris Testa				Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description							Strata Changes
SS-1	0-2	---		0.0 - 10.0'- (USDA) LOAMY SAND. 0.0 - 2.0'- Dry, Brown and Dark Brown, COARSE TO FINE SAND, little inorganic silt.							65
SS-2	2-4	---		2.0 - 4.0'- Dry, Brown, COARSE TO FINE SAND, little inorganic silt.							
SS-3	4-6	---		4.0 - 6.0'- Dry, Brown, COARSE TO FINE SAND, little inorganic silt.							
SS-4	6-8	---		6.0 - 8.0'- Dry, Brown, COARSE TO FINE SAND, little inorganic silt.							
SS-5	8-10	---		8.0 - 10.0'- Dry, Brown, COARSE TO FINE SAND, little inorganic silt.							
END OF PROBE 10 FT.											

New England Boring Contractors										Probe No. SB-07	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716										Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082		Page 1 of 1					
Location: RT 6 W STA 126+95				Date & Time Started: 12/19/2023 10:25				Total Hours:			
Groundwater Depth (Feet): N/E				Date & Time: ---				Date & Time Completed: 12/19/2023 10:40			
Coordinates (Feet): N 2736495.8 E 906399				Driller's Name: Carl Downing				Helper's Name: Keller Moore			
Ground Elevation (Feet): 76.3				Inspector's Name (PRINT): Chris Testa				Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description							Strata Changes
SS-1	0-2	---		0.0 - 2.0'- Topsoil and Dry, Brown, COARSE TO FINE SAND, little inorganic silt, trace fine gravel. 0.0 - 10.0'- (USDA) SANDY LOAM TO LOAMY SAND.							76
SS-2	2-4	---		2.0 - 4.0'- Dry, Brown, COARSE TO FINE SAND, some inorganic silt.							
SS-3	4-6	---		4.0 - 6.0'- Dry, Brown and Reddish Brown, COARSE TO FINE SAND, some inorganic silt.							
SS-4	6-8	---		6.0 - 8.0'- Dry, Brown, COARSE TO FINE SAND, some inorganic silt.							
SS-5	8-10	---		8.0 - 10.0'- Dry, Brown, COARSE TO FINE SAND.							
END OF PROBE 10 FT.											

New England Boring Contractors										Probe No. SB-10	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716										Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082		Page 1 of 1					
Location: RT 6 W STA 132+50				Date & Time Started: 12/19/2023 10:00				Total Hours:			
Groundwater Depth (Feet): N/E				Date & Time: ---				Date & Time Completed: 12/19/2023 10:15			
Coordinates (Feet): N 2736882.2 E 906791.5				Driller's Name: Carl Downing				Helper's Name: Keller Moore			
Ground Elevation (Feet): 98.8				Inspector's Name (PRINT): Chris Testa				Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description							Strata Changes
SS-1	0-2	---		0.0 - 2.0'- Asphalt and Dry, Brown, COARSE TO FINE SAND, 2" fine gravel, trace grass. 0.0 - 4.0'- (USDA) SANDY LOAM TO LOAM.							99
SS-2	2-4	---		2.0 - 4.0'- Moist, Dark Brown, COARSE TO FINE SAND, some clayey inorganic silt.							
SS-3	4-6	---		4.0 - 6.0'- Dry, Brown, FINE SAND, little fine gravel, some inorganic silt, trace coarse gravel. 4.0 - 10.0'- (USDA) LOAMY SAND TO SANDY LOAM.							
SS-4	6-8	---		6.0 - 8.0'- Dry, Brown, FINE SAND, little fine gravel, some inorganic silt.							
SS-5	8-10	---		8.0 - 10.0'- Dry, Brown, FINE SAND, little fine gravel, some inorganic silt, trace coarse gravel.							
END OF PROBE 10 FT.											

New England Boring Contractors										Boring No. SB-11	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716										Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082		Page 1 of 1					
Location: RT 6 W STA 134+51				Date & Time Started: 12/20/2023 10:00				Total Hours:			
Groundwater Depth (Feet): N/E				Date & Time: 12/20/2023 12:30				Date & Time Completed: 12/20/2023 12:15			
Coordinates (Feet): N 2737036.6 E 906919				Driller's Name: Minh Pham				Helper's Name: Jacob Kaworski			
Ground Elevation (Feet): 96.8				Inspector's Name (PRINT): Chris Testa				Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description							Strata Changes
SS-1	0-2	---		0.0 - 2.0'- Spoon refusal at 18" Difficulty advancing auger due to very dense subbase, advance to 2' using HSA. 0.0 - 8.0'- (USDA) Loamy Sand.							97
SS-2	2-4	7-30-33-32	17	2.0 - 4.0'- Dry, Very Dense, Brown, COARSE TO FINE SAND, little white fine gravel, little inorganic silt.							
SS-3	4-6	21-16-16-15	12	4.0 - 6.0'- Dry, Dense, Brown, COARSE TO FINE SAND, little white fine gravel, little inorganic silt.							
SS-4	6-8	8-10-9-9	15	6.0 - 8.0'- Dry, Medium Dense, Brown, COARSE TO FINE SAND, little coarse to medium gravel, trace inorganic silt.							
SS-5	8-10	4-6-100-19	11	8.0 - 10.0'- Dry, Very Dense, Brown, COARSE TO FINE SAND. 8.0 - 18.0'- (USDA) Sand.							
SS-6	10-12	25-50-25-29	13	10.0 - 12.0'- Dry, Very Dense, Brown, COARSE TO FINE SAND, little white coarse to fine gravel.							
SS-7	12-14	40-30-28-20	10	12.0 - 14.0'- Slow advancement of Auger. Coarse grained, fresh, granite outcrop. Possible boulder. Hammer with spoon to break boulder. Continue with sampling. 12.0 - 14.0'- Dry, Brown, Very Dense, COARSE TO FINE SAND and white/silt coarse to fine gravel. 14.0 - 16.0'- Dry, Very Dense, Brown, COARSE TO FINE SAND, some coarse to medium gravel.							
SS-8	16-18	12-23-25-25	11	16.0 - 18.0'- Dry, Dense, Brown, COARSE TO FINE SAND, little coarse to fine gravel.							
END OF BORING 18 FT.											

New England Boring Contractors										Boring No. SB-14	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716										Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082		Page 1 of 2					
Location: RT 6 E STA 141+89				Date & Time Started: 12/15/2023 9:30				Total Hours:			
Groundwater Depth (Feet): N/E				Date & Time: 12/15/2023 11:50				Date & Time Completed: 12/15/2023 11:15			
Coordinates (Feet): N 2737608.4 E 907387.8				Driller's Name: Nick Crowley				Helper's Name: Jacob Kaworski			
Ground Elevation (Feet): 83.5				Inspector's Name (PRINT): Chris Testa				Inspector's Company: HNTB			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description							Strata Changes
SS-1	0-2	52-45-48-50	14	0.0 - 2.0'- ~10" HMA and Subbase; Dry, Very Dense, Brown, COARSE SAND, little inorganic silt, trace coarse to fine gravel. 0.0 - 13.5'- (USDA) LOAMY SAND TO SANDY LOAM.							84
SS-2	2-4	34-30-32-34	12	2.0 - 4.0'- Dry, Very Dense, Brown, COARSE TO FINE SAND, little inorganic silt.							
SS-3	4-6	26-21-19-27	18	4.0 - 6.0'- Dry, Very Dense, Brown, COARSE TO FINE SAND, little inorganic silt, trace coarse sand near tip of spoon.							
SS-4	6-8	22-20-18-24	17	6.0 - 8.0'- Dry, Very Dense, Brown, COARSE TO FINE SAND, trace fine gravel, middle 3" firm, Dry, Very Dense, Dark Brown, COARSE TO FINE SAND, some coarse to fine gravel.							
SS-5	8-10	26-17-21-30	16	8.0 - 10.0'- Top 8" Dry, Dense, Dark Brown, COARSE TO FINE SAND, some inorganic silt, trace fine gravel. Bottom 8" Dry, Dense, Light Brown, COARSE TO FINE SAND, little fine gravel.							
SS-6	10-12	20-25-18-26	5	10.0 - 12.0'- Top 2" Dry, Dense, Dark Brown, COARSE TO FINE SAND. Bottom 3" Dry, Dense, Light Brown, COARSE TO FINE SAND.							
SS-7	15-17	17-21-29-23	16	13.5 - 22.0'- (USDA) LOAMY SAND TO SAND. 15.0 - 17.0'- Top 8" Dry, Dense, Dark Brown, COARSE TO FINE SAND. Bottom 8" Dry, Dense, Light Brown, COARSE TO FINE SAND.							

606082\_GTE(BORING LOGS)DWG Plotted on 17-Mar-2025 8:49 AM



New England Boring Contractors				Boring No. SB-14	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 E STA 141+89		Date & Time Started: 12/15/2023 9:30		Page 2 of 2	
Groundwater Depth (Feet): N/E		Date & Time: 12/15/2023 11:50		Date & Time Completed: 12/15/2023 11:15	
Coordinates (Feet): N 2737608.4 E 907387.8		Driller's Name: Nick Crowley		Helper's Name: Jacob Kaworski	
Ground Elevation (Feet): 83.5		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-8	20-22	31-24-32-39	20	13.5 - 22.0' - (USDA) LOAMY SAND TO SAND. 20.0 - 22.0' - Top 2" Dry, Very Dense, coarse to fine gravel, Middle 8" Dry, Very Dense, Dark Brown, COARSE TO FINE SAND, Bottom 12" Dry, Light Brown, COARSE TO FINE SAND.	64
END OF BORING 22 ft.					
Remarks: 3" Hollow Stem Auger.					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 20
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: -	Safety Hammer Weight: 140#
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Probe No. SB-15	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 E STA 143+87		Date & Time Started: 12/19/2023 1:40		Page 1 of 1	
Groundwater Depth (Feet): N/E		Date & Time: ---		Date & Time Completed: 12/19/2023 13:50	
Coordinates (Feet): N 2737766.4 E 907507.5		Driller's Name: Carl Downing		Helper's Name: Keller Moore	
Ground Elevation (Feet): 84.8		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	---		0.0 - 2.0' - Asphalt and Dry, Gray, COARSE TO FINE SAND, trace fine gravel. 0.0 - 8.0' - (USDA) SANDY LOAM.	85
SS-2	2-4	---		2.0 - 4.0' - Dry, Brown and Black, FINE SAND, some inorganic silt, little medium to fine gravel.	
SS-3	4-6	---		4.0 - 6.0' - Moist, Brown and Black, COARSE TO FINE SAND, some inorganic silt.	86
SS-4	6-8	---		6.0 - 8.0' - Dry, Orange, Gray, and Dark Brown, COARSE TO FINE SAND, some inorganic silt.	87
SS-5	8-10	---		8.0 - 10.0' - Dry, Brown, COARSE TO FINE SAND, trace inorganic silt. 8.0 - 10.0' - (USDA) LOAMY SAND TO SAND.	88
END OF PROBE 10 FT.					
Remarks: Groundwater not encountered.					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Geoprobe 6712DT	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: None	Size N/A
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: N/A
Loose	4-10	Soft	2-4	Sampler Type: Probe	Size 1.25"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: -	Safety Hammer Weight: 140#
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Probe No. SB-16	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 E STA 145+87		Date & Time Started: 12/19/2023 2:00		Page 1 of 1	
Groundwater Depth (Feet): N/E		Date & Time: ---		Date & Time Completed: 12/19/2023 14:15	
Coordinates (Feet): N 2737926.9 E 907627		Driller's Name: Carl Downing		Helper's Name: Keller Moore	
Ground Elevation (Feet): 86.2		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	---		0.0 - 2.0' - Asphalt and Dry, Dark Brown, COARSE TO FINE SAND. 0.0 - 10.0' - (USDA) SAND.	89
SS-2	2-4	---		2.0 - 4.0' - Dry, Brown, COARSE TO FINE SAND, trace inorganic silt.	
SS-3	4-6	---		4.0 - 6.0' - Dry, Brown, COARSE TO FINE SAND, trace inorganic silt.	90
SS-4	6-8	---		6.0 - 8.0' - Dry, Brown, COARSE TO FINE SAND, trace inorganic silt.	91
SS-5	8-10	---		8.0 - 10.0' - Dry, Brown, COARSE TO FINE SAND, trace inorganic silt.	92
END OF PROBE 10 FT.					
Remarks: Groundwater not encountered.					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Geoprobe 6712DT	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: None	Size N/A
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: N/A
Loose	4-10	Soft	2-4	Sampler Type: Probe	Size 1.25"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: -	Safety Hammer Weight: 140#
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	11	272
PROJECT FILE NO.		606082	

**AS-DRILLED BORING LOGS  
SHEET 7 OF 11**

New England Boring Contractors				Boring No. SB-18	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 E STA 149+83		Date & Time Started: 12/15/2023 11:45		Page 1 of 2	
Groundwater Depth (Feet): N/E		Date & Time: 12/15/2023 14:10		Date & Time Completed: 12/15/2023 14:00	
Coordinates (Feet): N 2738250.1 E 907862		Driller's Name: Nick Crowley		Helper's Name: Jacob Kaworski	
Ground Elevation (Feet): 89.8		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0.5-2.5	72-93-48-35	3	0.0 - 4.5' - (USDA) LOAMY SAND TO SANDY LOAM. 0.0 - 2.5' - 9" HMA and SUBBASE (REFUSAL advance 6" with HSA). Dry, Very Dense, Light Gray to Brown, COARSE TO FINE SAND, little inorganic silt, little medium fine gravel.	90
SS-2	2.5-4.5	29-23-26-22	1	2.5 - 4.5' - Dry, Dense, Brown, COARSE TO FINE SAND, some inorganic silt.	
SS-3	4.5-6.5	12-10-13-16	11	4.5 - 6.5' - Moist, Very Stiff, Brown to Orange, INORGANIC SILT TO CLAY, PP + 0.4, 0.2, 0.1 ft 4.5 - 10.5' - (USDA) SILTY CLAY TO LOAMY SAND.	91
SS-4	6.5-8.5	17-28-30-34	11	6.5 - 8.5' - TOP 1" Moist, Hard, INORGANIC SILT TO CLAY with 1"-2" gravels; Bottom 10" Dry, Very Dense, Brown, COARSE TO FINE SAND, little silt.	92
SS-5	8.5-10.5	41-54-56-60	24	8.5 - 10.5' - Top 12" Moist, Hard, Brown to Orange, INORGANIC SILT TO CLAY, Bottom 12" Dry, Very Dense, COARSE SAND, little inorganic silt.	93
SS-6	10.5-12.5	56-44-20-29	18	10.5 - 12.5' - Dry, Very Dense, Brown, COARSE SAND, little fine gravel. 10.5 - 13.8' - (USDA) SAND TO LOAMY SAND.	94
SS-7	15-17	22-24-21-23	17	13.8 - 22.0' - (USDA) LOAMY SAND TO SANDY LOAM. 15.0 - 17.0' - Dry, Very Dense, Brown, COARSE SAND, trace fine gravel.	95
Remarks: 3" Hollow Stem Auger.					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 20
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: -	Safety Hammer Weight: 140#
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Boring No. SB-18	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 E STA 149+83		Date & Time Started: 12/15/2023 11:45		Page 2 of 2	
Groundwater Depth (Feet): N/E		Date & Time: 12/15/2023 14:10		Date & Time Completed: 12/15/2023 14:00	
Coordinates (Feet): N 2738250.1 E 907862		Driller's Name: Nick Crowley		Helper's Name: Jacob Kaworski	
Ground Elevation (Feet): 89.8		Inspector's Name (PRINT): Chris Testa		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-8	20-22	18-19-18-20	16	13.8 - 22.0' - (USDA) LOAMY SAND TO SANDY LOAM. 20.0 - 22.0' - Top 6" Dry, Dense, Dark Brown, COARSE TO FINE SAND, some inorganic silt; Bottom 8" Dry, Dense, Light Brown, COARSE SAND.	96
END OF BORING 22 ft.					
Remarks: 3" Hollow Stem Auger.					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 20
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: -	Safety Hammer Weight: 140#
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Boring No. SB-19	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA		Bridge Number: N/A		Project File Number: 606082	
Location: RT 6 E STA 151+86		Date & Time Started: 12/19/2023 9:45		Page 1 of 2	
Groundwater Depth (Feet): 16		Date & Time: 12/19/2023 11:45		Date & Time Completed: 12/19/2023 11:45	
Coordinates (Feet): N 2738410.9 E 907980.1		Driller's Name: Minh Pham		Helper's Name: Jacob Kaworski	
Ground Elevation (Feet): 94		Inspector's Name (PRINT): Alex Bieker		Inspector's Company: HNTB	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0.5-2	-84-84-100	10	0.0 - 2.0' - 10" HMA and SUBBASE; Dry, Very Dense, Brown, COARSE TO FINE SAND, some medium to fine gravel, trace organics. 0.0 - 13.5' - (USDA) LOAMY SAND TO SAND.	97
SS-2	2-4	-100-	0	2.0 - 4.0' - No recovery. Refusal in subbase/asphalt. Sample is Auger cuttings.	
SS-3	4-6	40-11-12-6	11	4.0 - 6.0' - Top 2" Gray to Brown rock fragments; Bottom 8" Dry, Medium Dense, Brown, COARSE TO FINE SAND, some medium to fine gravel.	98
SS-4	6-8	1-1-2-4	14	6.0 - 8.0' - Dry, Very Loose, Brown, COARSE TO FINE SAND, some medium to fine gravel, trace inorganic silt.	99
SS-5	8-10	4-5-4-4	18	8.0 - 10.0' - Dry, Loose, Gray to Brown, COARSE TO FINE SAND, some medium to fine gravel, trace inorganic silt.	100
SS-6	10-12	3-6-7-11	18	10.0 - 12.0' - Moist, Medium Dense, Light Brown to Brown, COARSE TO FINE SAND AND INORGANIC SILT, some medium to fine gravel.	101
SS-7	15-17	10-11-12-20	14	13.5 - 18.5' - (USDA) LOAMY SAND TO SANDY LOAM. 15.0 - 17.0' - Top 8" Moist, Medium Dense, Brown, COARSE TO FINE SAND AND INORGANIC SILT, some medium to fine gravel; Bottom 6" Moist, Medium Dense, Brown, COARSE TO FINE SAND, little coarse to fine gravel, trace inorganic silt. 18.5 - 23.5' - (USDA) LOAMY SAND TO SAND.	102
Remarks: 3" Hollow Stem Auger. Potential perched water at 16' BGS.					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Silt, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 25
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: -	Safety Hammer Weight: 140#
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Boring No. SB-19	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 2 of 2		
Location: RT 6 E STA 151+86		Date & Time Started: 12/19/2023 9:45	Total Hours:		
Groundwater Depth (Feet): 16		Date & Time: 12/19/2023 11:45	Date & Time Completed: 12/19/2023 11:45		2
Coordinates (Feet): N 2738410.9 E 907980.1		Driller's Name: Minh Pham	Helper's Name: Jacob Kaworski		
Ground Elevation (Feet): 94		Inspector's Name (PRINT): Alex Blaher	Inspector's Signature: <i>Alex Blaher</i>		Inspector's Company: HNTB
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-8	20-22	7-18-23-23	24	18.5 - 23.0' (USDA) LOAMY SAND TO SAND. 20.0 - 22.0' Dry, Dense, Light Brown to Brown, COARSE TO FINE SAND, some coarse to fine gravel, little inorganic silt.	14
				23.5 - 27.0' (USDA) SAND.	
SS-9	25-27	4-10-14-17	9	25.0 - 27.0' Dry, Medium Dense, Light Brown to Brown, COARSE TO FINE SAND, some coarse to fine gravel.	25
				END OF BORING 27 FT.	29
Remarks: 3" Hollow Stem Auger. Potential perched water at 16' BGS.					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Fall: N/A	Depth: 25
Loose	4-10	Soft	2-4	Hammer Weight: N/A	
Medium Dense	10-30	Medium Stiff	4-8	Sampler Type: Spoon	Size 2"
Dense	30-50	Stiff	8-15	Automatic Hammer Weight: 140#	
Very Dense	Over 50	Very Stiff	15-30	Safety Hammer Weight: Donut Hammer Weight: -	Fall: 30"
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Boring No. SB-20	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 1 of 2		
Location: RT 6 E STA 153+90		Date & Time Started: 12/19/2023 12:30	Total Hours:		
Groundwater Depth (Feet): N/E		Date & Time: 12/19/2023 14:30	Date & Time Completed: 12/19/2023 14:15		1.75
Coordinates (Feet): N 2738568 E 908104.9		Driller's Name: Minh Pham	Helper's Name: Jacob Kaworski		
Ground Elevation (Feet): 99.6		Inspector's Name (PRINT): Alex Blaher	Inspector's Signature: <i>Alex Blaher</i>		Inspector's Company: HNTB
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	1-2	- - 71 - 62	11	0.0 - 2.0' -11" HMA and SUBBASE. Bottom 4" Dry, Very Dense, Brown to Light Brown, COARSE TO FINE SAND, some coarse to medium to fine gravel.	100
SS-2	2-4	11-25-27-26	15	2.0 - 4.0' Dry, Very Dense, Brown to Gray, COARSE TO FINE SAND, some medium to fine gravel; Bottom 2" Dry, Very Dense, Dark Gray, COARSE TO FINE SAND, some medium to fine gravel.	
SS-3	4-6	31-11-12-8	13	4.0 - 6.0' Dry, Medium Dense, Light Brown, COARSE TO FINE SAND, trace medium to fine gravel; seams of dark brown fine sand.	5
SS-4	6-8	2-3-5-6	20	6.0 - 8.0' Dry, Loose, Light Brown, COARSE TO FINE SAND, trace inorganic silt; seams of dark brown fine sand.	10
SS-5	8-10	3-4-4-4	18	8.0 - 10.0' Moist, Loose, Light Brown, COARSE TO FINE SAND, trace inorganic silt; seams of dark brown fine sand.	15
SS-6	10-12	3-4-5-6	21	10.0 - 12.0' Moist, Loose, Light Brown to Brown, FINE SAND, some inorganic silt. 10.0 - 18.5' (USDA) SILTY LOAM.	20
SS-7	15-17	2-4-5-5	24	15.0 - 17.0' Moist, Stiff, Light Brown to Brown, INORGANIC SILT, some fine sand. Non Plastic.	25
				18.5 - 27.0' (USDA) SILT.	35
Remarks: 3" Hollow Stem Auger.					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Fall: N/A	Depth: 25
Loose	4-10	Soft	2-4	Hammer Weight: N/A	
Medium Dense	10-30	Medium Stiff	4-8	Sampler Type: Spoon	Size 2"
Dense	30-50	Stiff	8-15	Automatic Hammer Weight: 140#	
Very Dense	Over 50	Very Stiff	15-30	Safety Hammer Weight: Donut Hammer Weight: -	Fall: 30"
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Boring No. SB-20	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 2 of 2		
Location: RT 6 E STA 153+90		Date & Time Started: 12/19/2023 12:30	Total Hours:		
Groundwater Depth (Feet): N/E		Date & Time: 12/19/2023 14:30	Date & Time Completed: 12/19/2023 14:15		1.75
Coordinates (Feet): N 2738568 E 908104.9		Driller's Name: Minh Pham	Helper's Name: Jacob Kaworski		
Ground Elevation (Feet): 99.6		Inspector's Name (PRINT): Alex Blaher	Inspector's Signature: <i>Alex Blaher</i>		Inspector's Company: HNTB
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-8	20-22	5-8-11-13	24	18.5 - 27.0' (USDA) SILT. 20.0 - 22.0' Moist, Very Stiff, Light Brown to Brown, INORGANIC SILT, some fine sand.	80
SS-9	25-27	3-6-9-11	24	25.0 - 27.0' Moist, Stiff, Light Brown to Brown, INORGANIC SILT, little Clay, trace fine Sand. Low plasticity.	75
				END OF BORING 27 FT.	80
Remarks: 3" Hollow Stem Auger.					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Fall: N/A	Depth: 25
Loose	4-10	Soft	2-4	Hammer Weight: N/A	
Medium Dense	10-30	Medium Stiff	4-8	Sampler Type: Spoon	Size 2"
Dense	30-50	Stiff	8-15	Automatic Hammer Weight: 140#	
Very Dense	Over 50	Very Stiff	15-30	Safety Hammer Weight: Donut Hammer Weight: -	Fall: 30"
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

**BOURNE**  
**MEDIAN INSTALLATION ON**  
**ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	12	272
PROJECT FILE NO.		606082	

**AS-DRILLED BORING LOGS**  
**SHEET 8 OF 11**

New England Boring Contractors				Boring No. WB-01	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 1 of 2		
Location: RT 6 E STA 121+52		Date & Time Started: 12/20/2023 12:45	Total Hours:		
Groundwater Depth (Feet): N/E		Date & Time: 12/20/2023 14:45	Date & Time Completed: 12/20/2023 14:30		1.75
Coordinates (Feet): N 2736199.2 E 905937.3		Driller's Name: Minh Pham	Helper's Name: Jacob Kaworski		
Ground Elevation (Feet): 56.2		Inspector's Name (PRINT): Chris Testa	Inspector's Signature: <i>Chris Testa</i>		Inspector's Company: HNTB
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	102-82-69-47	12	0.0 - 2.0' -17" HMA and SUBBASE. Dry, Very Dense, Light Brown, COARSE TO FINE SAND, some inorganic silt, little coarse to fine gravel.	56
SS-2	2-4	10-24-36-30	7	2.0 - 4.0' Dry, Dense, Orange, COARSE TO FINE SAND, little inorganic silt, trace fine gravel.	
SS-3	4-6	27-12-9-7	12	4.0 - 6.0' Dry, Medium Dense, Brown and Orange, COARSE TO FINE SAND, little fine gravel, little inorganic silt.	5
SS-4	6-8	6-7-9-10	16	6.0 - 8.0' Dry, Medium Dense, Brown and Orange, COARSE TO FINE SAND, little fine gravel, little inorganic silt.	11
SS-5	8-10	12-2-1-3	19	8.0 - 10.0' Dry, Very Loose, Brown and Orange, COARSE TO FINE SAND, some inorganic silt, trace fine gravel.	10
SS-6	10-12	3-3-5-5	16	10.0 - 12.0' Dry, Loose, Brown and Orange, COARSE TO FINE SAND, some inorganic silt, trace fine gravel.	16
SS-7	15-17	8-14-16-17	20	15.0 - 17.0' Dry, Dense, Brown, COARSE TO FINE SAND, trace coarse gravel. Little white inorganic silt in tip of spoon.	15
Remarks:					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Fall: N/A	Depth: 25
Loose	4-10	Soft	2-4	Hammer Weight: N/A	
Medium Dense	10-30	Medium Stiff	4-8	Sampler Type: Spoon	Size 2"
Dense	30-50	Stiff	8-15	Automatic Hammer Weight: 140#	
Very Dense	Over 50	Very Stiff	15-30	Safety Hammer Weight: Donut Hammer Weight: -	Fall: 30"
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Boring No. WB-01	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 2 of 2		
Location: RT 6 E STA 121+52		Date & Time Started: 12/20/2023 12:45	Total Hours:		
Groundwater Depth (Feet): N/E		Date & Time: 12/20/2023 14:45	Date & Time Completed: 12/20/2023 14:30		1.75
Coordinates (Feet): N 2736199.2 E 905937.3		Driller's Name: Minh Pham	Helper's Name: Jacob Kaworski		
Ground Elevation (Feet): 56.2		Inspector's Name (PRINT): Chris Testa	Inspector's Signature: <i>Chris Testa</i>		Inspector's Company: HNTB
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-8	20-22	12-11-9-12	17	20.0 - 22.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, little inorganic silt, trace fine gravel.	36
SS-9	25-27	15-13-15-13	18	25.0 - 27.0' Dry, Medium Dense, Light Brown, COARSE TO FINE SAND, little inorganic silt, trace fine gravel.	15
				END OF BORING 27 FT.	21
Remarks:					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Fall: N/A	Depth: 25
Loose	4-10	Soft	2-4	Hammer Weight: N/A	
Medium Dense	10-30	Medium Stiff	4-8	Sampler Type: Spoon	Size 2"
Dense	30-50	Stiff	8-15	Automatic Hammer Weight: 140#	
Very Dense	Over 50	Very Stiff	15-30	Safety Hammer Weight: Donut Hammer Weight: -	Fall: 30"
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

New England Boring Contractors				Boring No. WB-02	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 1 of 2		
Location: RT 6 E STA 122+47		Date & Time Started: 12/21/2023 9:00	Total Hours:		
Groundwater Depth (Feet): N/E		Date & Time: 12/21/2023 11:15	Date & Time Completed: 12/21/2023 11:00		2.0
Coordinates (Feet): N 2736235.7 E 906030.4		Driller's Name: Minh Pham	Helper's Name: Justin Madleria		
Ground Elevation (Feet): 57		Inspector's Name (PRINT): Chris Testa	Inspector's Signature: <i>Chris Testa</i>		Inspector's Company: HNTB
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	- - 65 - 78	11	0.0 - 2.0' -13" HMA and SUBBASE. Asphalt and Dry, Very Dense, White to Gray, COARSE TO FINE GRAVEL (SUBBASE). Bottom 3" Dry, Brown, COARSE TO FINE SAND.	57
SS-2	2-4	45-22-24-23	8	2.0 - 4.0' Dry, Dense, Brown, COARSE TO FINE SAND, some inorganic silt.	
SS-3	4-6	8-9-11-12	24	4.0 - 6.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, trace fine gravel.	5
SS-4	6-8	7-10-8-7	21	6.0 - 8.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, trace fine gravel.	10
SS-5	8-10	3-2-3-3	15	8.0 - 10.0' Dry, Very Loose, Orange and Brown, COARSE TO FINE SAND, little inorganic silt. Middle 2" Dry, Black, COARSE TO FINE SAND, no evidence of organics.	10
SS-6	10-12	2-3-2-5	24	10.0 - 12.0' Dry, Very Loose, Orange to Brown, FINE SAND. Middle 12" Dry, Grey to Black, FINE SAND, no evidence of organics.	10
SS-7	15-17	6-7-7-11	23	15.0 - 17.0' Dry, Medium Dense, Light Brown, COARSE TO FINE SAND.	15
Remarks:					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Fall: N/A	Depth: 25
Loose	4-10	Soft	2-4	Hammer Weight: N/A	
Medium Dense	10-30	Medium Stiff	4-8	Sampler Type: Spoon	Size 2"
Dense	30-50	Stiff	8-15	Automatic Hammer Weight: 140#	
Very Dense	Over 50	Very Stiff	15-30	Safety Hammer Weight: Donut Hammer Weight: -	Fall: 30"
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	13	272
PROJECT FILE NO.		606082	

**AS-DRILLED BORING LOGS  
SHEET 9 OF 11**

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-02</b>			
City/Town: Bourne MA		Scale:			
Location: RT 6 E STA 122+47		Project File Number: 606082			
Groundwater Depth (Feet): N/E		Date & Time Started: 12/21/2023 11:15			
Coordinates (Feet): N 2736235.7 E 906030.4		Date & Time Completed: 12/21/2023 11:00			
Ground Elevation (Feet): 57		Inspector's Name (PRINT): Chris Testa			
Driller's Name: Minh Pham		Helper's Name: Justin Maderia			
Inspector's Company: HNTB		Total Hours: 2.0			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-8	20-22	8-9-10-13	18	20.0 - 22.0' Dry, Medium Dense, Light Brown, COARSE TO FINE SAND, little inorganic silt.	37
SS-9	25-27	7-8-15-22	19	25.0 - 27.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, little medium to fine gravel. 1" Dark Brown, medium to fine sand, no evidence of organics.	45 52
END OF BORING 27 FT.					
Remarks:				Arrow-Board - Signs - Cones -	
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 25
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	Over 30	
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-04</b>			
City/Town: Bourne MA		Scale:			
Location: RT 6 E STA 128+08		Project File Number: 606082			
Groundwater Depth (Feet): N/E		Date & Time Started: 12/21/2023 11:30			
Coordinates (Feet): N 2736533.5 E 906513.5		Date & Time Completed: 12/21/2023 11:45			
Ground Elevation (Feet): 83.9		Inspector's Name (PRINT): Chris Testa			
Driller's Name: Minh Pham		Helper's Name: Justin Maderia			
Inspector's Company: HNTB		Total Hours: 0.25			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	- - 44-45	6	0.0 - 2.0' -14" HMA and SUBBASE Top 4" Dry, Dense, White, COARSE GRAVEL. Bottom 2" Dry, Brown, fine sand	84
SS-2	2-4	18-23-28-31	0	2.0 - 4.0' NO RECOVERY: Spoon tip broken during driving, not retrieved. Dry, Very Dense, Brown, COARSE TO FINE SAND.	84
Offset 4' East along Route 6 East to Begin WB-4A. END OF BORING 4 FT.					
Remarks: Spoon broken at 4' BGS, lost tip in hole, not retrieved. Offset 4' along Route 6 to continue boring.				Arrow-Board - Signs - Cones -	
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 25
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	Over 30	
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-04A</b>			
City/Town: Bourne MA		Scale:			
Location: RT 6 E STA 128+12		Project File Number: 606082			
Groundwater Depth (Feet): N/E		Date & Time Started: 12/21/2023 13:15			
Coordinates (Feet): N 2736536 E 906516.6		Date & Time Completed: 12/21/2023 13:30			
Ground Elevation (Feet): 83.9		Inspector's Name (PRINT): Chris Testa			
Driller's Name: Minh Pham		Helper's Name: Justin Maderia			
Inspector's Company: HNTB		Total Hours: 1.75			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-3	2-4	13-13-14-22	17	2.0 - 4.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND Middle 2" Black and Orange, medium to fine sand, little inorganic silt, no evidence of organics.	84
SS-4	4-6	8-16-16-15	24	4.0 - 6.0' Dry, Dense, Brown, COARSE TO FINE SAND, little inorganic silt, trace fine gravel.	84
SS-5	6-8	11-16-17-16	20	6.0 - 8.0' Dry, Dense, Brown, COARSE TO FINE SAND, little inorganic silt, trace fine gravel.	84
SS-6	8-10	10-14-15-16	18	8.0 - 10.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, little medium to fine gravel, trace inorganic silt.	84
SS-7	10-12	13-17-16-26	20	10.0 - 12.0' Dry, Dense, Brown, COARSE TO FINE SAND, some coarse to fine gravel.	84
SS-8	15-17	10-10-10-10	19	15.0 - 17.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, little coarse to fine gravel.	84
END OF BORING 17 FT.					
Remarks:				Arrow-Board - Signs - Cones -	
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 20
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	Over 30	
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-04A</b>			
City/Town: Bourne MA		Scale:			
Location: RT 6 E STA 128+12		Project File Number: 606082			
Groundwater Depth (Feet): N/E		Date & Time Started: 12/21/2023 13:15			
Coordinates (Feet): N 2736536 E 906516.6		Date & Time Completed: 12/21/2023 13:30			
Ground Elevation (Feet): 83.9		Inspector's Name (PRINT): Chris Testa			
Driller's Name: Minh Pham		Helper's Name: Justin Maderia			
Inspector's Company: HNTB		Total Hours: 1.75			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-9	20-22	5-6-7-8	14	20.0 - 22.0' Dry, Medium Dense, COARSE TO FINE SAND, some coarse to fine gravel. Middle 2" medium to fine sand, some inorganic silt.	64
END OF BORING 22 FT.					
Remarks:				Arrow-Board - Signs - Cones -	
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 20
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	Over 30	
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-05</b>			
City/Town: Bourne MA		Scale:			
Location: RT 6 E STA 129+72		Project File Number: 606082			
Groundwater Depth (Feet): N/E		Date & Time Started: 12/22/2023 9:15			
Coordinates (Feet): N 2736645.7 E 906640.5		Date & Time Completed: 12/22/2023 11:00			
Ground Elevation (Feet): 93.5		Inspector's Name (PRINT): Chris Testa			
Driller's Name: Minh Pham		Helper's Name: Justin Maderia			
Inspector's Company: HNTB		Total Hours: 1.75			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	- - 31-38	10	0.0 - 2.0' -12" HMA and SUBBASE Dry, Dense, Brown, COARSE TO FINE SAND, little coarse to medium gravel.	94
SS-2	2-4	22-35-42-43	6	2.0 - 4.0' Dry, Very Dense, Brown, COARSE TO FINE SAND, trace fine gravel. Little orange coarse to fine sand throughout.	94
SS-3	4-6	23-15-18-17	18	4.0 - 6.0' Dry, Dense, Brown, COARSE TO FINE SAND, trace fine gravel. Little orange coarse to fine sand throughout.	94
SS-4	6-8	50-108-27-20	16	6.0 - 8.0' Dry, Very Dense, Brown, COARSE TO FINE SAND, trace fine gravel. Middle 5" White, COARSE GRAVEL AND INORGANIC SILT, likely broken cobble/boulder.	94
SS-5	8-10	8-12-12-16	19	8.0 - 10.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, little medium to fine gravel, little inorganic silt.	94
SS-6	10-12	19-35-24-20	13	10.0 - 12.0' Dry, Very Dense, Brown, COARSE TO FINE SAND, little coarse gravel.	94
SS-7	15-17	6-4-3-4	19	15.0 - 17.0' Top 13" Dry, Loose, Brown, COARSE TO FINE SAND, some medium to fine gravel. Bottom 6" Dry, Orange, FINE SAND, some inorganic silt.	94
Remarks:				Arrow-Board - Signs - Cones -	
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 20
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	Over 30	
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-05</b>			
City/Town: Bourne MA		Scale:			
Location: RT 6 E STA 129+72		Project File Number: 606082			
Groundwater Depth (Feet): N/E		Date & Time Started: 12/22/2023 9:15			
Coordinates (Feet): N 2736645.7 E 906640.5		Date & Time Completed: 12/22/2023 11:00			
Ground Elevation (Feet): 93.5		Inspector's Name (PRINT): Chris Testa			
Driller's Name: Minh Pham		Helper's Name: Justin Maderia			
Inspector's Company: HNTB		Total Hours: 1.75			
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-8	20-22	7-11-13-14	24	20.0 - 22.0' Dry, Very Stiff, Brown, CLAYEY INORGANIC SILT, PP = 0.5 tnf. Bottom 2" Dry, Brown, fine sand.	74
SS-9	25-27	7-8-8-14	3	25.0 - 27.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND.	74
END OF BORING 27 FT.					
Remarks:				Arrow-Board - Signs - Cones -	
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 20
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	Over 30	
N = Sum of Second and Third 6" Blow Counts					
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	14	272
PROJECT FILE NO.		606082	

**AS-DRILLED BORING LOGS  
SHEET 10 OF 11**

606082\_GIT(BORING LOGS)DWG Plotted on 17-Mar-2025 9:50 AM

<b>New England Boring Contractors</b>				<b>Boring No. WB-08</b>	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02718				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 1 of 2		
Location: RT 6 E STA 136+84		Date & Time Started: 12/22/2023 11:30	Total Hours:		
Groundwater Depth (Feet): N/E		Date & Time: 12/22/2023 13:05	Date & Time Completed: 12/22/2023 13:05		1.5
Coordinates (Feet): N 2737204.1 E 907085.6		Driller's Name: Minh Pham	Helper's Name: Justin Madleria		
Ground Elevation (Feet): 90.4		Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB		
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	- - 17 - 17	8	0.0 - 2.0' -13" HMA and SUBBASE Dry, Medium Dense, Brown, COARSE TO FINE SAND, some coarse to fine gravel.	90
SS-2	2-4	10 - 10 - 17 - 8	12	2.0 - 4.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, some coarse to fine gravel.	
SS-3	4-6	5 - WOH - WOH - 2	12	4.0 - 6.0' Top 2" Soft, crumbled, white material (styrofoam). Middle 1" Very Soft, Orange, inorganic silt. Bottom 9" Dry, Very Loose, Grey and Black, COARSE TO FINE SAND, no evidence of organics.	5
SS-4	6-8	4 - 5 - 4 - 4	14	6.0 - 8.0' Dry, Loose, Brown, FINE SAND, little inorganic silt.	85
SS-5	8-10	3 - 3 - 6 - 5	24	8.0 - 10.0' Top 11" Dry, Loose, Brown, FINE SAND. Bottom 13" Dry, Loose, Brown, FINE SAND, some inorganic silt, PP=0.	80
SS-6	10-12	4 - 4 - 4 - 4	20	10.0 - 12.0' Dry, Loose, Brown, COARSE TO FINE SAND, little inorganic silt.	70
SS-7	15-17	3 - 3 - 3 - 4	16	15.0 - 17.0' Dry, Loose, Brown, COARSE TO FINE SAND, trace inorganic silt.	65
Remarks:					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 30
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

<b>New England Boring Contractors</b>				<b>Boring No. WB-08</b>	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02718				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 2 of 2		
Location: RT 6 E STA 136+84		Date & Time Started: 12/22/2023 11:30	Total Hours:		
Groundwater Depth (Feet): N/E		Date & Time: 12/22/2023 13:05	Date & Time Completed: 12/22/2023 13:05		1.5
Coordinates (Feet): N 2737204.1 E 907085.6		Driller's Name: Minh Pham	Helper's Name: Justin Madleria		
Ground Elevation (Feet): 90.4		Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB		
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-8	20-22	2 - 2 - 1 - 2	12	20.0 - 22.0' Dry, Very Loose, Gray, Orange, and Brown, COARSE TO FINE SAND, little inorganic silt.	70
SS-9	25-27	36 - 31 - 26 - 25	15	25.0 - 27.0' Dry, Very Dense, Brown, COARSE SAND AND COARSE TO FINE GRAVEL. Collected 2 jars of this sample.	25
Remarks:					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 30
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

<b>New England Boring Contractors</b>				<b>Boring No. WB-10</b>	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02718				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 1 of 2		
Location: RT 6 E STA 138+87		Date & Time Started: 1/3/2024 9:15	Total Hours:		
Groundwater Depth (Feet): N/E		Date & Time: 1/3/2024 10:30	Date & Time Completed: 1/3/2024 10:30		1.25
Coordinates (Feet): N 2737366.6 E 907207.2		Driller's Name: Minh Pham	Helper's Name: Justin Madleria		
Ground Elevation (Feet): 85.9		Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB		
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	0-2	- - 8 - 13	10	0.0 - 2.0' -13" HMA and SUBBASE Dry, Loose, Brown, COARSE TO FINE SAND, trace medium gravel.	86
SS-2	2-4	8 - 2 - WOH* - 3	8	2.0 - 4.0' Dry, Very Loose, Brown, COARSE TO FINE SAND, trace medium gravel.	
SS-3	4-6	4 - 4 - 4 - 3	16	4.0 - 6.0' Dry, Loose, Brown, COARSE TO FINE SAND, trace medium to fine gravel in spoon tip only.	5
SS-4	6-8	3 - 3 - 5 - 4	10	6.0 - 8.0' Dry, Loose, Brown, COARSE TO FINE SAND, trace medium gravel.	81
SS-5	8-10	3 - 2 - 2 - 3	4	8.0 - 10.0' Dry, Very Loose, Brown, COARSE SAND.	76
SS-6	10-12	2 - 2 - 2 - 2	6	10.0 - 12.0' Dry, Very Loose, Brown, COARSE TO FINE SAND, trace fine gravel.	71
SS-7	15-17	2 - 3 - 3 - 6	20	15.0 - 17.0' S-7A Bottom 15" Dry, Loose, Orange, COARSE TO FINE SAND, little inorganic silt. S-7B Top 7" Dry, Loose, Brown, COARSE SAND, little coarse to fine gravel.	66
Remarks:					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 30
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

<b>New England Boring Contractors</b>				<b>Boring No. WB-10</b>	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02718				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 2 of 2		
Location: RT 6 E STA 138+87		Date & Time Started: 1/3/2024 9:15	Total Hours:		
Groundwater Depth (Feet): N/E		Date & Time: 1/3/2024 10:30	Date & Time Completed: 1/3/2024 10:30		1.25
Coordinates (Feet): N 2737366.6 E 907207.2		Driller's Name: Minh Pham	Helper's Name: Justin Madleria		
Ground Elevation (Feet): 85.9		Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB		
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-8	20-22	10 - 14 - 14 - 16	19	20.0 - 22.0' Dry, Medium Dense, Brown, COARSE SAND.	66
Remarks:					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 30
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

<b>New England Boring Contractors</b>				<b>Boring No. WB-12</b>	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02718				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 1 of 2		
Location: RT 6 E STA 160+10		Date & Time Started: 1/2/2024 9:35	Total Hours:		
Groundwater Depth (Feet): N/E		Date & Time: 1/2/2024 11:30	Date & Time Completed: 1/2/2024 11:05		1.5
Coordinates (Feet): N 2739017 E 908529.4		Driller's Name: Minh Pham	Helper's Name: TPham & TViewe		
Ground Elevation (Feet): 111.5		Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB		
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-1	1-2	- - 27 - 34	11	0.0 - 2.0' -13" HMA and SUBBASE Dry, Medium Dense, Brown, FINE SAND, little coarse to medium gravel.	112
SS-2	2-4	37 - 28 - 26 - 30	16	2.0 - 4.0' Dry, Very Dense, Brown FINE SAND, some inorganic silt.	
SS-3	4-6	15 - 10 - 11 - 11	10	4.0 - 6.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, little inorganic silt.	5
SS-4	6-8	7 - 8 - 7 - 7	13	6.0 - 8.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, little inorganic silt.	10
SS-5	8-10	5 - 7 - 9 - 13	22	8.0 - 10.0' Top 15" Dry, Medium Dense, Brown, FINE SAND, little inorganic silt. Bottom 7" Dry, Very Stiff, Brown INORGANIC SILT.	10
SS-6	10-12	5 - 6 - 9 - 10	6	10.0 - 12.0' Dry, Medium Dense, Brown, FINE SAND, little inorganic silt, trace fine gravel.	10
SS-7	15-17	4 - 7 - 8 - 47	12	15.0 - 17.0' Auger sinking during driving of last 6", then auger retracted with spoon. Spoon bent. Dry, Medium Dense, Brown, COARSE TO FINE SAND, trace inorganic silt.	55
Remarks: 3" Hollow Stem Auger.					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 20
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

<b>New England Boring Contractors</b>				<b>Boring No. WB-12</b>	
250 Cape Hwy Suite 12, Tauton, Massachusetts, 02718				Scale:	
City/Town: Bourne MA	Bridge Number: N/A	Project File Number: 606082	Page 2 of 2		
Location: RT 6 E STA 160+10		Date & Time Started: 1/2/2024 9:35	Total Hours:		
Groundwater Depth (Feet): N/E		Date & Time: 1/2/2024 11:30	Date & Time Completed: 1/2/2024 11:05		1.5
Coordinates (Feet): N 2739017 E 908529.4		Driller's Name: Minh Pham	Helper's Name: TPham & TViewe		
Ground Elevation (Feet): 111.5		Inspector's Name (PRINT): Chris Testa	Inspector's Company: HNTB		
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)	Field Description	Strata Changes
SS-8	20-22	7 - 9 - 11 - 14	20	20.0 - 22.0' Dry, Medium Dense, Brown, COARSE TO FINE SAND, little inorganic silt.	92
Remarks: 3" Hollow Stem Auger.					
Penetration Resistance (N) Guide					
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)		Type of Drill Rig: Drill Mobile B-57	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing Type: HSA	Size 3"
Very Loose	0-4	Very Soft	0-2	Hammer Weight: N/A	Depth: 20
Loose	4-10	Soft	2-4	Sampler Type: Spoon	Size 2"
Medium Dense	10-30	Medium Stiff	4-8	Automatic Hammer Weight: 140#	Safety Hammer Weight: -
Dense	30-50	Stiff	8-15	Donut Hammer Weight: -	Fall: 30"
Very Dense	Over 50	Very Stiff	15-30	N = Sum of Second and Third 6" Blow Counts	
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less					

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	15	272
PROJECT FILE NO.		606082	

**AS-DRILLED BORING LOGS  
SHEET 11 OF 11**

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-14</b>	
City/Town: Bourne MA		Scale:	
Location: RT 6 E STA 162+05		Project File Number: 606082	
Date & Time Started: 1/2/2024 12:15		Page 1 of 2	
Groundwater Depth (Feet): N/E		Total Hours: 1.5	
Date & Time: 1/2/2024 13:45		Date & Time Completed: 1/2/2024 13:45	
Coordinates (Feet): N 2739160 E 908661.1		Driller's Name: Minh Pham	
Ground Elevation (Feet): 111.3		Inspector's Name (PRINT): Chris Testa	
Inspector's Company: HNTB		Inspector's Signature: Chris Testa	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)
Field Description			
SS-1	1-2	- - 36 - 49	7
SS-2	2-4	54 - 33 - 33 - 34	10
SS-3	4-6	28 - 10 - 9 - 10	9
SS-4	6-8	8 - 9 - 11 - 10	15
SS-5	8-10	6 - 8 - 12 - 15	19
SS-6	10-12	7 - 14 - 13 - 11	12
SS-7	15-17	8 - 26 - 13 - 10	11
Strata Changes			
Remarks: 3" Hollow Stem Auger. Offset 17.4 feet west due to cluster of utilities.			
Penetration Resistance (N) Guide			
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance
Very Loose	0-4	Very Soft	0-2
Loose	4-10	Soft	2-4
Medium Dense	10-30	Medium Stiff	4-8
Dense	30-50	Stiff	8-15
Very Dense	Over 50	Very Stiff	15-30
N = Sum of Second and Third 6" Blow Counts			
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less			

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-14</b>	
City/Town: Bourne MA		Scale:	
Location: RT 6 E STA 162+05		Project File Number: 606082	
Date & Time Started: 1/2/2024 12:15		Page 2 of 2	
Groundwater Depth (Feet): N/E		Total Hours: 1.5	
Date & Time: 1/2/2024 13:45		Date & Time Completed: 1/2/2024 13:45	
Coordinates (Feet): N 2739160 E 908661.1		Driller's Name: Minh Pham	
Ground Elevation (Feet): 111.3		Inspector's Name (PRINT): Chris Testa	
Inspector's Company: HNTB		Inspector's Signature: Chris Testa	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)
Field Description			
SS-8	20-22	19 - 7 - 8 - 10	14
Strata Changes			
Remarks: 3" Hollow Stem Auger. Offset 17.4 feet west due to cluster of utilities.			
Penetration Resistance (N) Guide			
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance
Very Loose	0-4	Very Soft	0-2
Loose	4-10	Soft	2-4
Medium Dense	10-30	Medium Stiff	4-8
Dense	30-50	Stiff	8-15
Very Dense	Over 50	Very Stiff	15-30
N = Sum of Second and Third 6" Blow Counts			
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less			

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-15</b>	
City/Town: Bourne MA		Scale:	
Location: RT 6 E STA 164+28		Project File Number: 606082	
Date & Time Started: 1/4/2024 9:15		Page 1 of 2	
Groundwater Depth (Feet): N/E		Total Hours: 1.5	
Date & Time: 1/4/2024 10:45		Date & Time Completed: 1/4/2024 10:45	
Coordinates (Feet): N 2739321.9 E 908819.8		Driller's Name: Minh Pham	
Ground Elevation (Feet): 110.6		Inspector's Name (PRINT): Chris Testa	
Inspector's Company: HNTB		Inspector's Signature: Chris Testa	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)
Field Description			
SS-1	0-2	- - 14 - 27	6
SS-2	2-4	31 - 65 - 50 - 26	9
SS-3	4-6	10 - 23 - 21 - 26	15
SS-4	6-8	21 - 26 - 25 - 22	17
SS-5	8-10	1 - 7 - 8 - 7	13
SS-6	10-12	6 - 6 - 7 - 6	17
SS-7	15-17	4 - 5 - 6 - 18	20
Strata Changes			
Remarks:			
Penetration Resistance (N) Guide			
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance
Very Loose	0-4	Very Soft	0-2
Loose	4-10	Soft	2-4
Medium Dense	10-30	Medium Stiff	4-8
Dense	30-50	Stiff	8-15
Very Dense	Over 50	Very Stiff	15-30
N = Sum of Second and Third 6" Blow Counts			
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less			

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-15</b>	
City/Town: Bourne MA		Scale:	
Location: RT 6 E STA 164+28		Project File Number: 606082	
Date & Time Started: 1/4/2024 9:15		Page 2 of 2	
Groundwater Depth (Feet): N/E		Total Hours: 1.5	
Date & Time: 1/4/2024 10:45		Date & Time Completed: 1/4/2024 10:45	
Coordinates (Feet): N 2739321.9 E 908819.8		Driller's Name: Minh Pham	
Ground Elevation (Feet): 110.6		Inspector's Name (PRINT): Chris Testa	
Inspector's Company: HNTB		Inspector's Signature: Chris Testa	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)
Field Description			
SS-8	20-22	6 - 4 - 6 - 7	24
SS-9	22-24	6 - 4 - 5 - 5	17
Strata Changes			
Remarks:			
Penetration Resistance (N) Guide			
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance
Very Loose	0-4	Very Soft	0-2
Loose	4-10	Soft	2-4
Medium Dense	10-30	Medium Stiff	4-8
Dense	30-50	Stiff	8-15
Very Dense	Over 50	Very Stiff	15-30
N = Sum of Second and Third 6" Blow Counts			
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less			

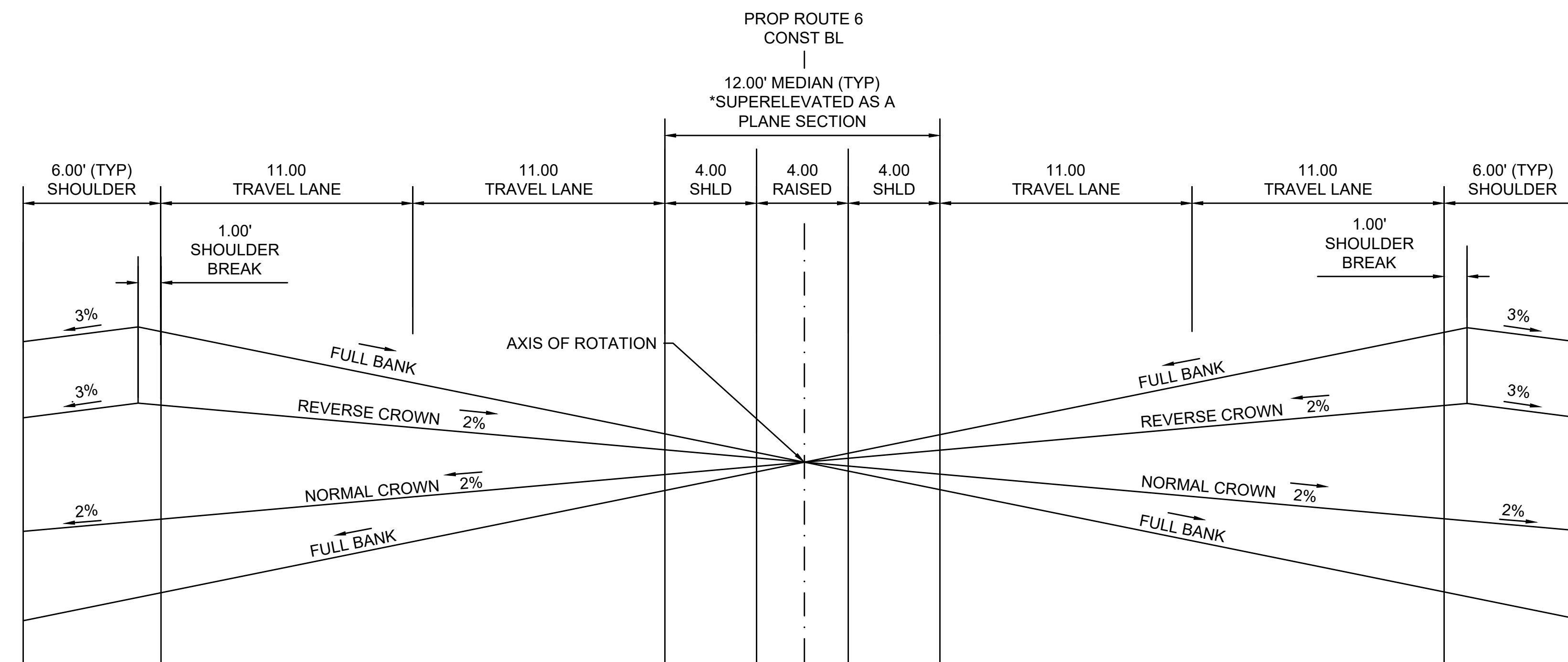
<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-17</b>	
City/Town: Bourne MA		Scale:	
Location: RT 6 E STA 166+06		Project File Number: 606082	
Date & Time Started: 1/3/2024 11:00		Page 1 of 2	
Groundwater Depth (Feet): N/E		Total Hours: 2	
Date & Time: 1/3/2024 13:00		Date & Time Completed: 1/3/2024 13:00	
Coordinates (Feet): N 2739461.8 E 908933.4		Driller's Name: Minh Pham	
Ground Elevation (Feet): 109.3		Inspector's Name (PRINT): Chris Testa	
Inspector's Company: HNTB		Inspector's Signature: Chris Testa	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)
Field Description			
SS-1	0-2	- - 20 - 25	1
SS-2	2-4	18 - 21 - 40 - 29	15
SS-3	4-6	12 - 13 - 12 - 22	12
SS-4	6-8	15 - 18 - 34 - 20	10
SS-5	8-10	18 - 21 - 22 - 15	16
SS-6	10-12	14 - 22 - 22 - 20	18
SS-7	15-17	1 - 2 - 14 - 20	11
Strata Changes			
Remarks:			
Penetration Resistance (N) Guide			
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance
Very Loose	0-4	Very Soft	0-2
Loose	4-10	Soft	2-4
Medium Dense	10-30	Medium Stiff	4-8
Dense	30-50	Stiff	8-15
Very Dense	Over 50	Very Stiff	15-30
N = Sum of Second and Third 6" Blow Counts			
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less			

<b>New England Boring Contractors</b> 250 Cape Hwy Suite 12, Tauton, Massachusetts, 02716		<b>Boring No. WB-17</b>	
City/Town: Bourne MA		Scale:	
Location: RT 6 E STA 166+06		Project File Number: 606082	
Date & Time Started: 1/3/2024 11:00		Page 2 of 2	
Groundwater Depth (Feet): N/E		Total Hours: 2	
Date & Time: 1/3/2024 13:00		Date & Time Completed: 1/3/2024 13:00	
Coordinates (Feet): N 2739461.8 E 908933.4		Driller's Name: Minh Pham	
Ground Elevation (Feet): 109.3		Inspector's Name (PRINT): Chris Testa	
Inspector's Company: HNTB		Inspector's Signature: Chris Testa	
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minutes per Foot	Recovery (Inches)
Field Description			
SS-8	20-22	6 - 6 - 8 - 10	23
SS-9	22-24	9 - 9 - 8 - 9	17
Strata Changes			
Remarks:			
Penetration Resistance (N) Guide			
Cohesionless Soils (Sands, Gravels)		Cohesive Soils (Sills, Clays)	
Relative Density	Penetration Resistance	Consistency	Penetration Resistance
Very Loose	0-4	Very Soft	0-2
Loose	4-10	Soft	2-4
Medium Dense	10-30	Medium Stiff	4-8
Dense	30-50	Stiff	8-15
Very Dense	Over 50	Very Stiff	15-30
N = Sum of Second and Third 6" Blow Counts			
Terms Used for Second Entry of Descriptions: and = 35-50%, some = 12-35%, little = 5-12%, trace = 5% or less			

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	16	272
PROJECT FILE NO.		606082	

**TYPICAL SECTIONS  
SHEET 1 OF 6**



METHOD OF BANKING  
NTS

PVMT NOTES

PROPOSED FULL DEPTH HMA PVMT

SURFACE COURSE: 2" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER ASPHALT EMULSION FOR TACK COAT OVER

INTERMEDIATE COURSE: 2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER ASPHALT EMULSION FOR TACK COAT OVER

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

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

PROPOSED PVMT WIDENING LESS THAN 4'-0"

SURFACE COURSE: 2" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER ASPHALT EMULSION FOR TACK COAT OVER

INTERMEDIATE COURSE: 2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER ASPHALT EMULSION FOR TACK COAT OVER

BASE COURSE: 8" HES CEMENT CONCRETE BASE COURSE OVER

SUBBASE: 12" GRAVEL BORROW TYPE b

PROPOSED RESURFACING - FINE MILLING AND OVERLAY

SURFACE COURSE: 2" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER ASPHALT EMULSION FOR TACK COAT OVER  
0" (MIN) TO 8" (MAX) SUPERPAVE LEVELING COURSE - 12.5 (SLC-12.5) AS REQUIRED AND WHERE INDICATED ON TYPICAL SECTIONS OVER ASPHALT EMULSION FOR TACK COAT OVER

FINE MILLING: 2" PAVEMENT FINE MILLING

PROPOSED HMA SHARED USE PATH PVMT

SURFACE COURSE: 1 1/2" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER ASPHALT EMULSION FOR TACK COAT OVER

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

FOUNDATION: 8" GRAVEL BORROW, TYPE b

PROPOSED HMA SIDEWALK

SURFACE COURSE: 3" SUPERPAVE SURFACE PLACED IN TWO LAYERS:  
1 1/4" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER  
1 3/4" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5)

FOUNDATION: 8" GRAVEL BORROW, TYPE b

PROPOSED CEMENT CONCRETE SIDEWALKS AND PEDESTRIAN CURB RAMPS AND MEDIAN

SURFACE COURSE: 4" CEMENT CONCRETE (AIR ENT. 4000 PSI, 3/4"-610 LB) OVER

FOUNDATION: 8" GRAVEL BORROW, TYPE b

HOT MIX ASPHALT DRIVEWAYS

SURFACE COURSE: 1 3/4" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER ASPHALT EMULSION FOR TACK COAT OVER  
2 3/4" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER ASPHALT EMULSION FOR TACK COAT OVER

FOUNDATION: 8" GRAVEL BORROW, TYPE b

TEMPORARY PVMT

SURFACE COURSE: 2" SUPERPAVE SURFACE COURSE - 9.5 POLYMER (SSC-9.5) OVER ASPHALT EMULSION FOR TACK COAT OVER

INTERMEDIATE COURSE: 3" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER

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

STATION	CURVE 1	
	LEFT	RIGHT
	e (%)	
105+76	-2.00%	-2.00%
106+40	0.00%	-2.00%
106+95	2.00%	-2.00%
107+22	2.60%	-2.60%
111+38	2.60%	-2.60%
111+64	2.00%	-2.00%
112+17	0.00%	-2.00%
112+80	-2.00%	-2.00%

STATION	CURVE 2	
	LEFT	RIGHT
	e (%)	
112+95	-2.00%	-2.00%
113+68	-2.00%	0.00%
114+88	-2.00%	2.00%
115+48	-5.00%	5.00%
132+27	-5.00%	5.00%
132+87	-2.00%	2.00%
134+07	-2.00%	0.00%
134+80	-2.00%	-2.00%

STATION	CURVE 3	
	LEFT	RIGHT
	e (%)	
149+74	-2.00%	-2.00%
150+46	0.00%	-2.00%
151+23	2.00%	-2.00%
151+61	3.20%	-3.20%
156+19	3.20%	-3.20%
156+57	2.00%	-2.00%
157+34	0.00%	-2.00%
158+06	-2.00%	-2.00%

STATION	CURVE 4	
	LEFT	RIGHT
	e (%)	
160+53	-2.00%	-2.00%
161+26	-2.00%	0.00%
162+20	-2.00%	2.00%
162+67	-4.00%	4.00%
173+51	-4.00%	4.00%
173+98	-2.00%	2.00%
174+92	-2.00%	0.00%
175+65	-2.00%	-2.00%

NOTES:

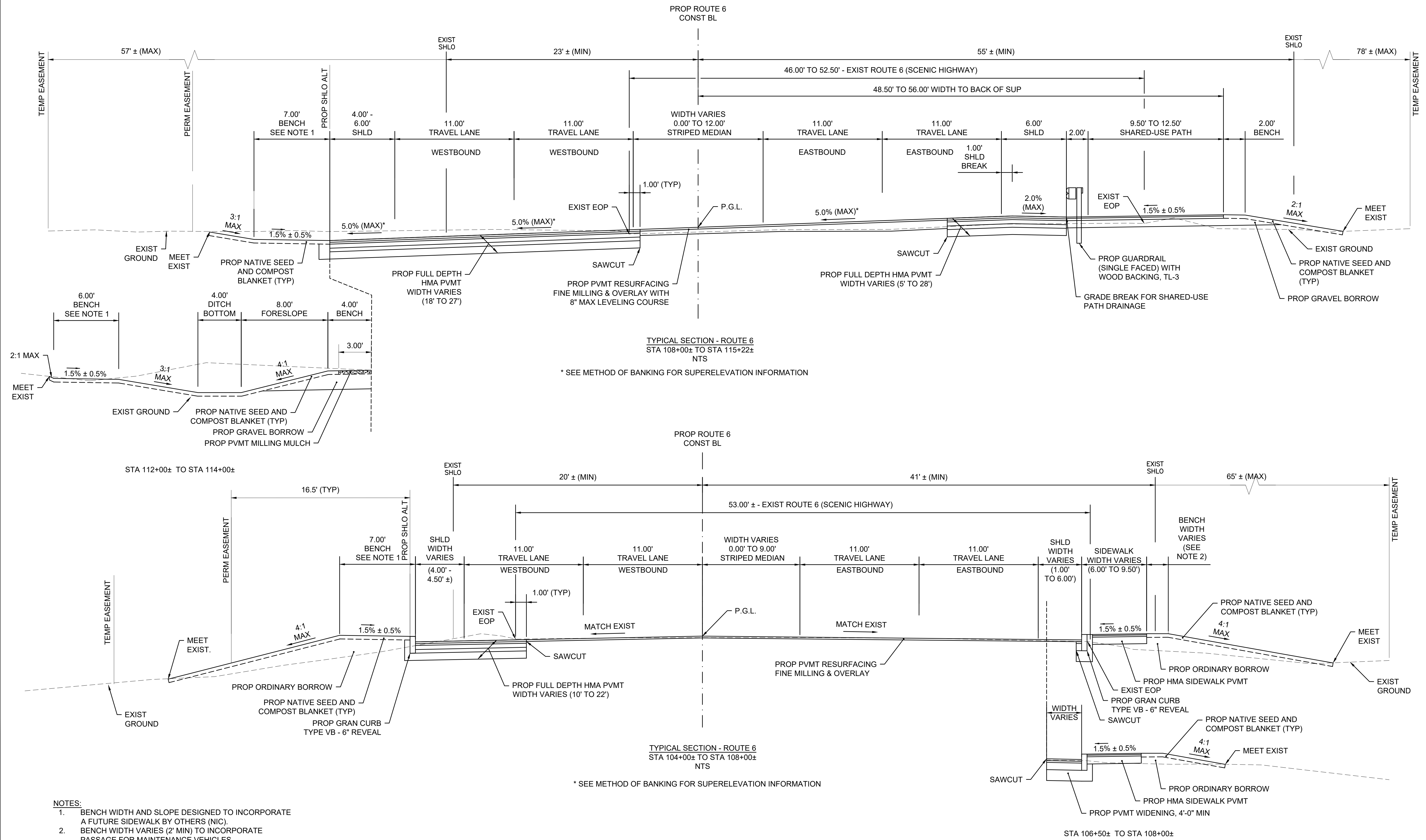
- ALL CONSTRUCTION OPERATIONS TO BE PERFORMED ON STATE PROPERTY OR WITHIN PROPOSED RIGHT OF WAY EASEMENTS.



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	17	272
PROJECT FILE NO.		606082	

**TYPICAL SECTIONS  
SHEET 2 OF 6**

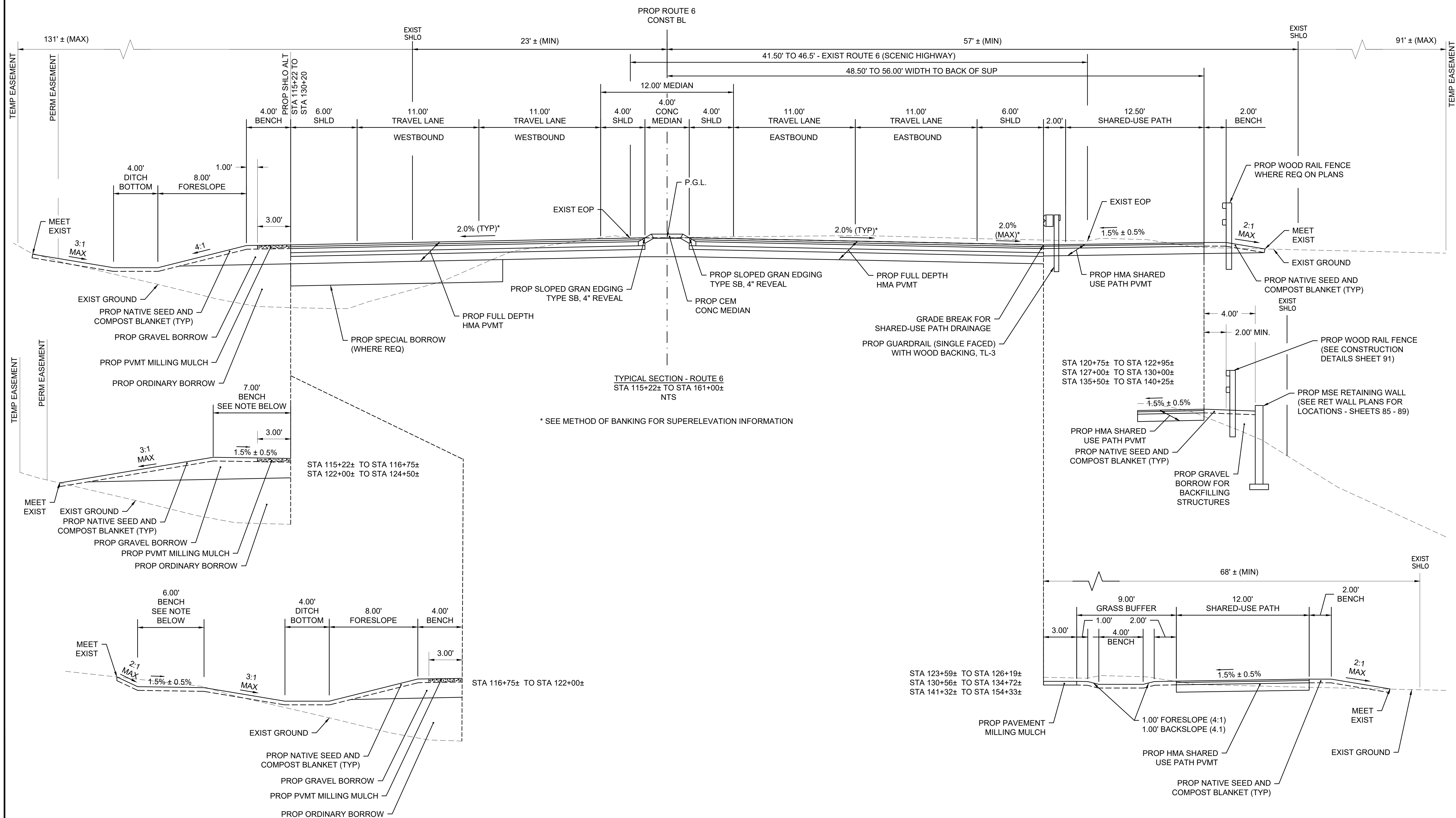


- NOTES:**
- BENCH WIDTH AND SLOPE DESIGNED TO INCORPORATE A FUTURE SIDEWALK BY OTHERS (NIC).
  - BENCH WIDTH VARIES (2' MIN) TO INCORPORATE PASSAGE FOR MAINTENANCE VEHICLES

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

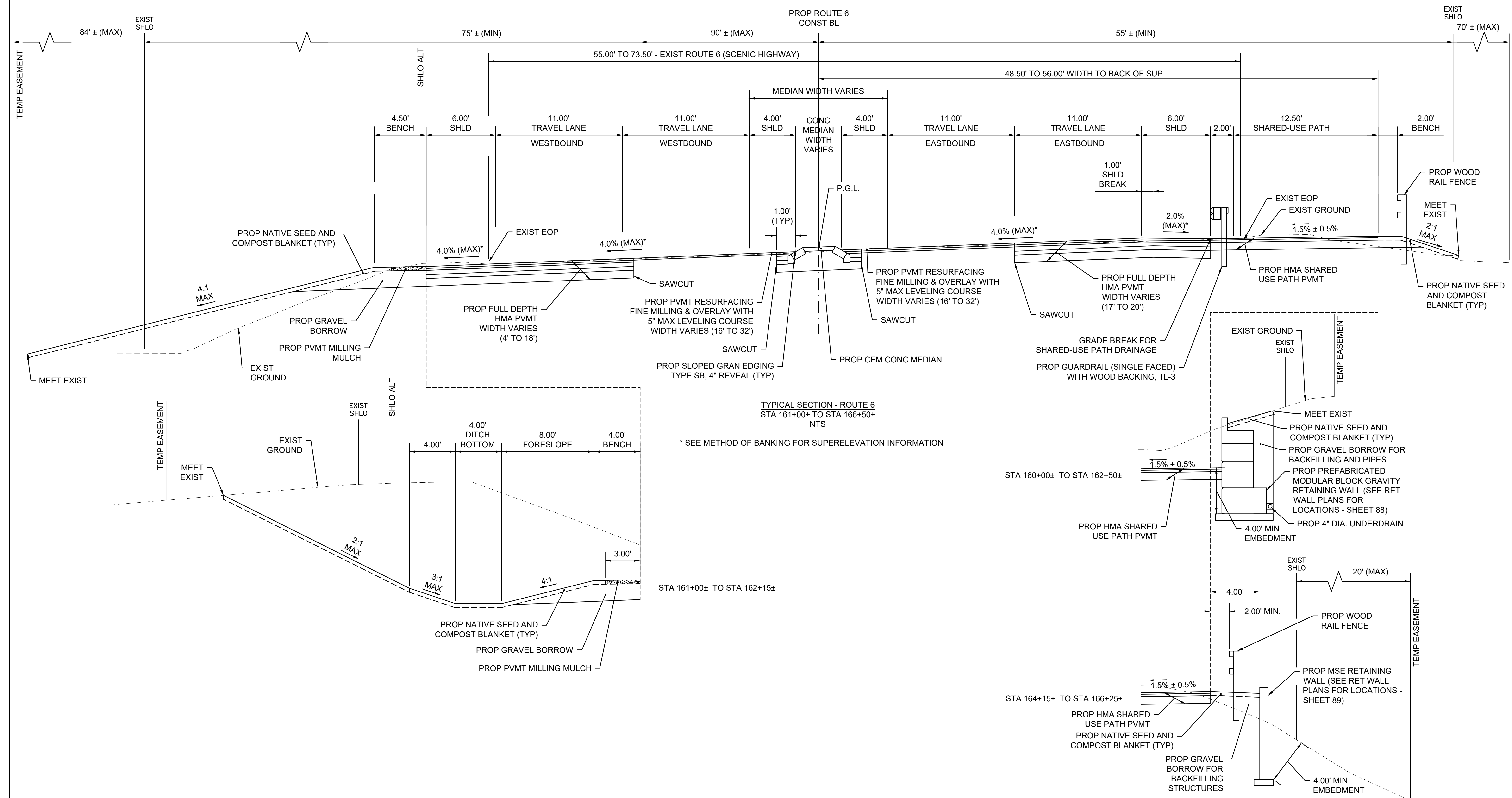
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	18	272
PROJECT FILE NO.		606082	

**TYPICAL SECTIONS  
SHEET 3 OF 6**



\* SEE METHOD OF BANKING FOR SUPERELEVATION INFORMATION

**NOTES:**  
1. BENCH WIDTH AND SLOPE DESIGNED TO INCORPORATE A FUTURE SIDEWALK BY OTHERS (NIC).



**TYPICAL SECTION - ROUTE 6**  
STA 161+00± TO STA 166+50±  
NTS

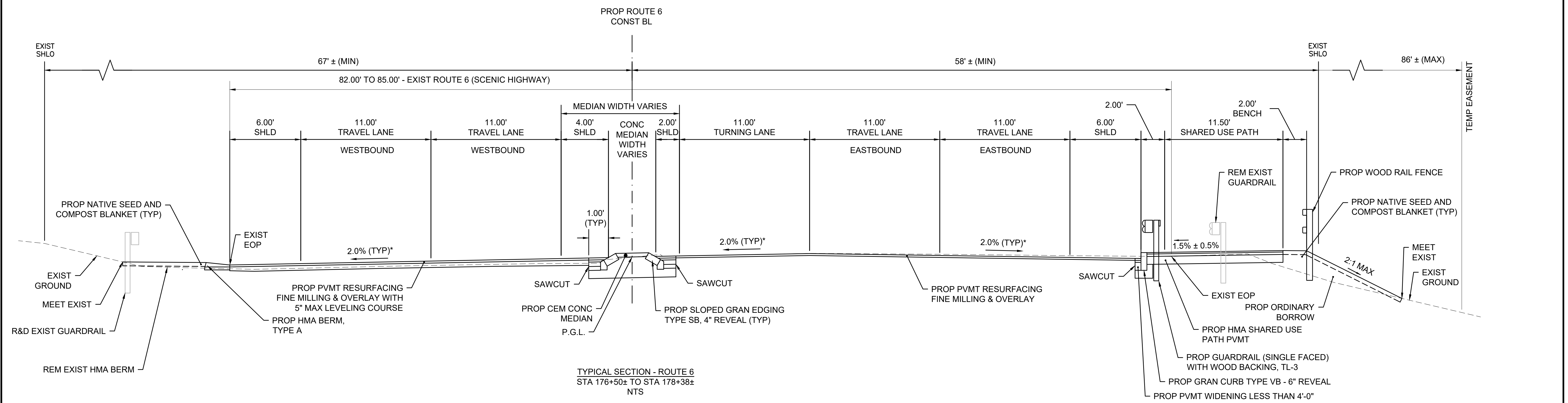
\* SEE METHOD OF BANKING FOR SUPERELEVATION INFORMATION



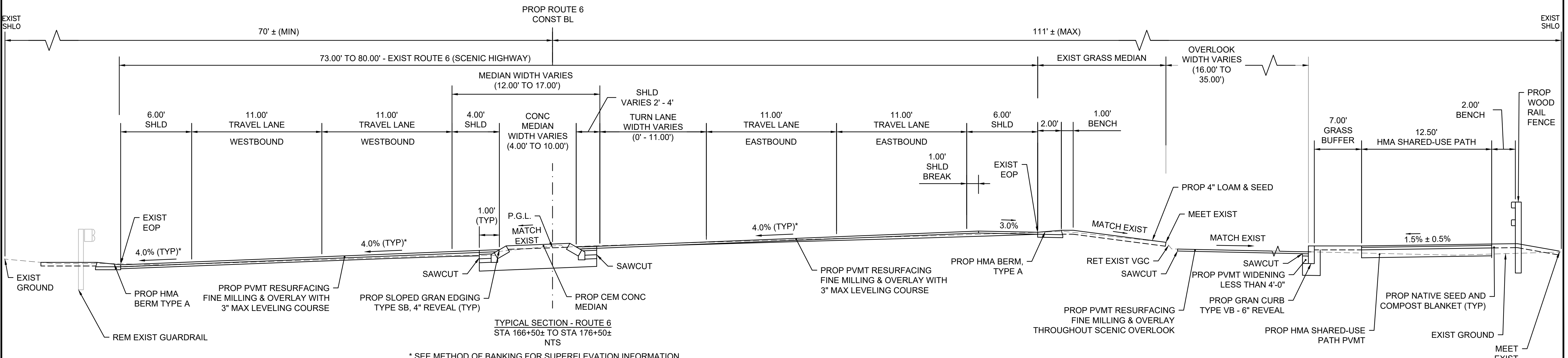
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	20	272
PROJECT FILE NO.		606082	

**TYPICAL SECTIONS  
SHEET 5 OF 6**



TYPICAL SECTION - ROUTE 6  
STA 176+50± TO STA 178+38±  
NTS



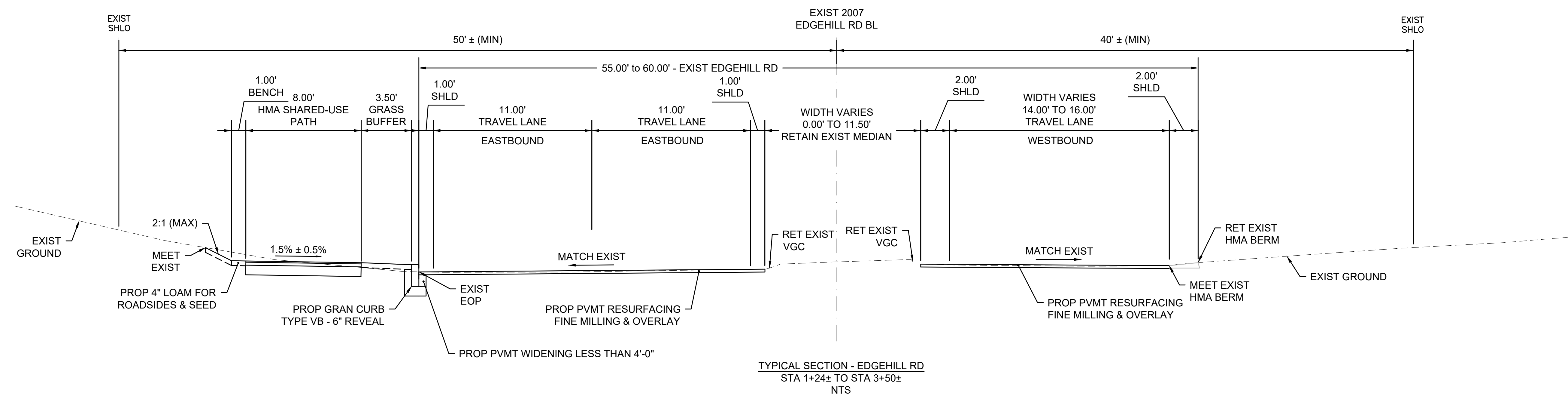
TYPICAL SECTION - ROUTE 6  
STA 166+50± TO STA 176+50±  
NTS

\* SEE METHOD OF BANKING FOR SUPERELEVATION INFORMATION

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	21	272
PROJECT FILE NO.		606082	

**TYPICAL SECTIONS  
SHEET 6 OF 6**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	22	272
PROJECT FILE NO. 606082			

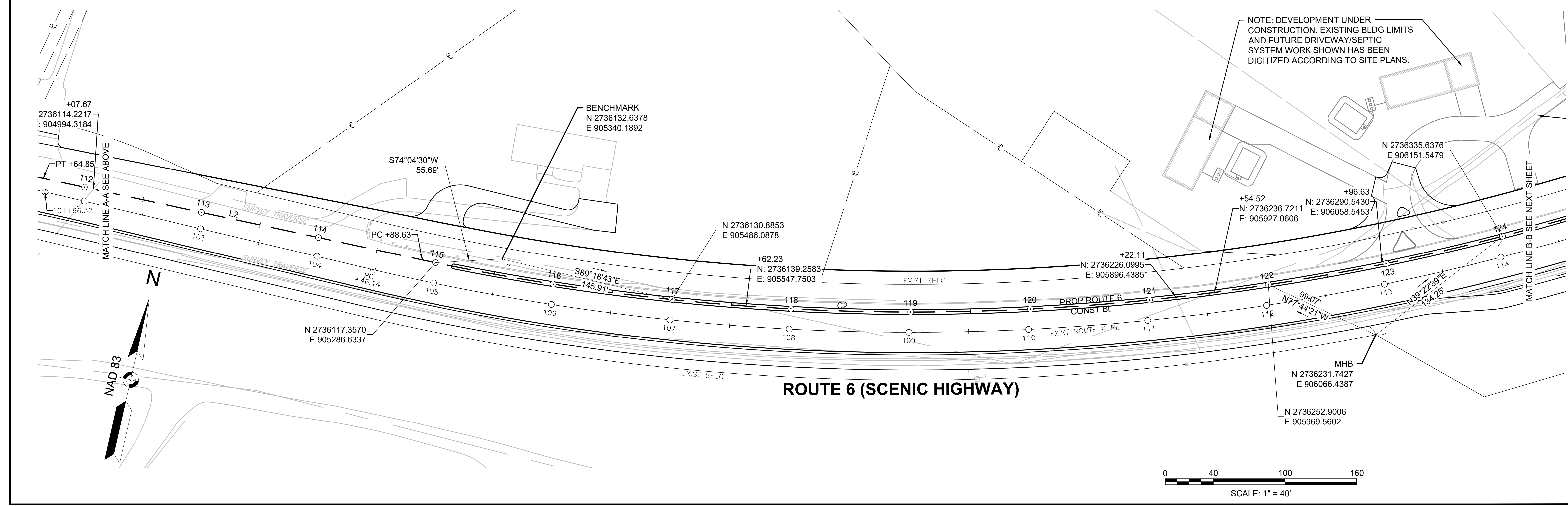
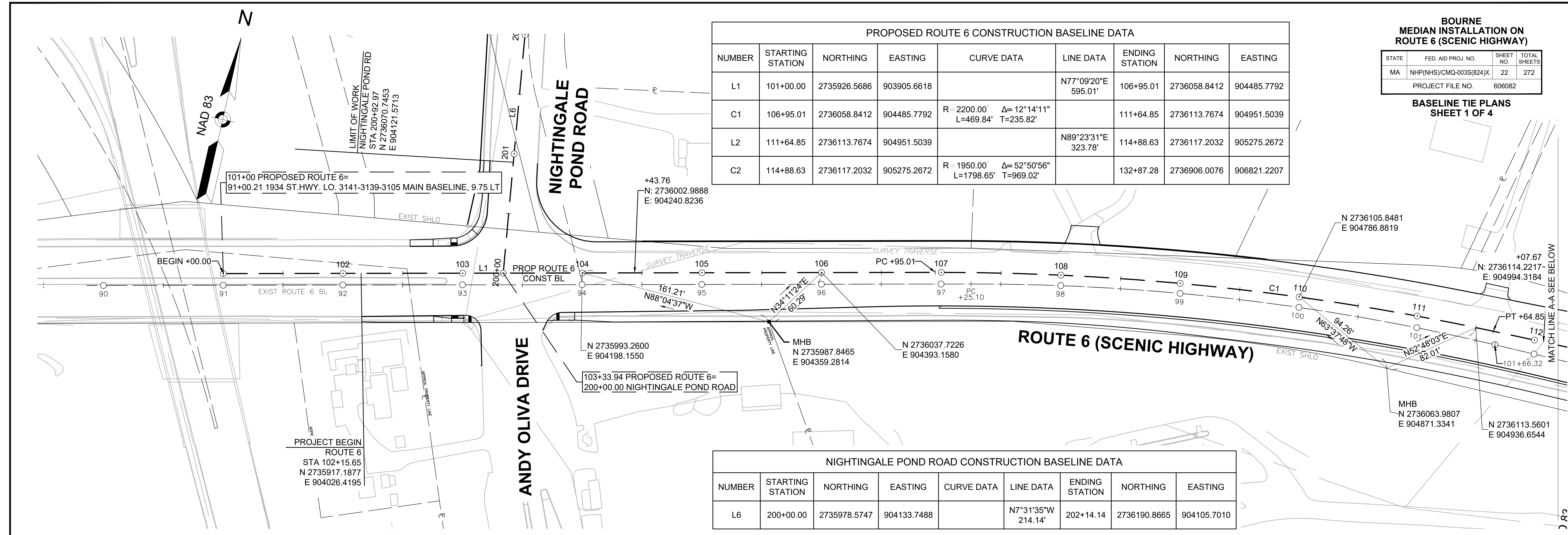
**BASELINE TIE PLANS  
SHEET 1 OF 4**

**PROPOSED ROUTE 6 CONSTRUCTION BASELINE DATA**

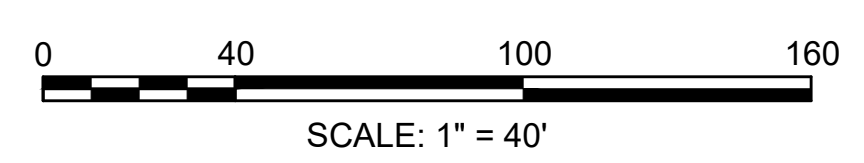
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	101+00.00	2735926.5686	903905.6618		N77°09'20"E 595.01'	106+95.01	2736058.8412	904485.7792
C1	106+95.01	2736058.8412	904485.7792	R=2200.00' Δ=12°14'11" L=469.84' T=235.82'		111+64.85	2736113.7674	904951.5039
L2	111+64.85	2736113.7674	904951.5039		N89°23'31"E 323.78'	114+88.63	2736117.2032	905275.2672
C2	114+88.63	2736117.2032	905275.2672	R=1950.00' Δ=52°50'56" L=1798.65' T=969.02'		132+87.28	2736906.0076	906821.2207

**NIGHTINGALE POND ROAD CONSTRUCTION BASELINE DATA**

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L6	200+00.00	2735978.5747	904133.7488		N7°31'35"W 214.14'	202+14.14	2736190.8665	904105.7010



NOTE: DEVELOPMENT UNDER CONSTRUCTION. EXISTING BLDG LIMITS AND FUTURE DRIVEWAY/SEPTIC SYSTEM WORK SHOWN HAS BEEN DIGITIZED ACCORDING TO SITE PLANS.



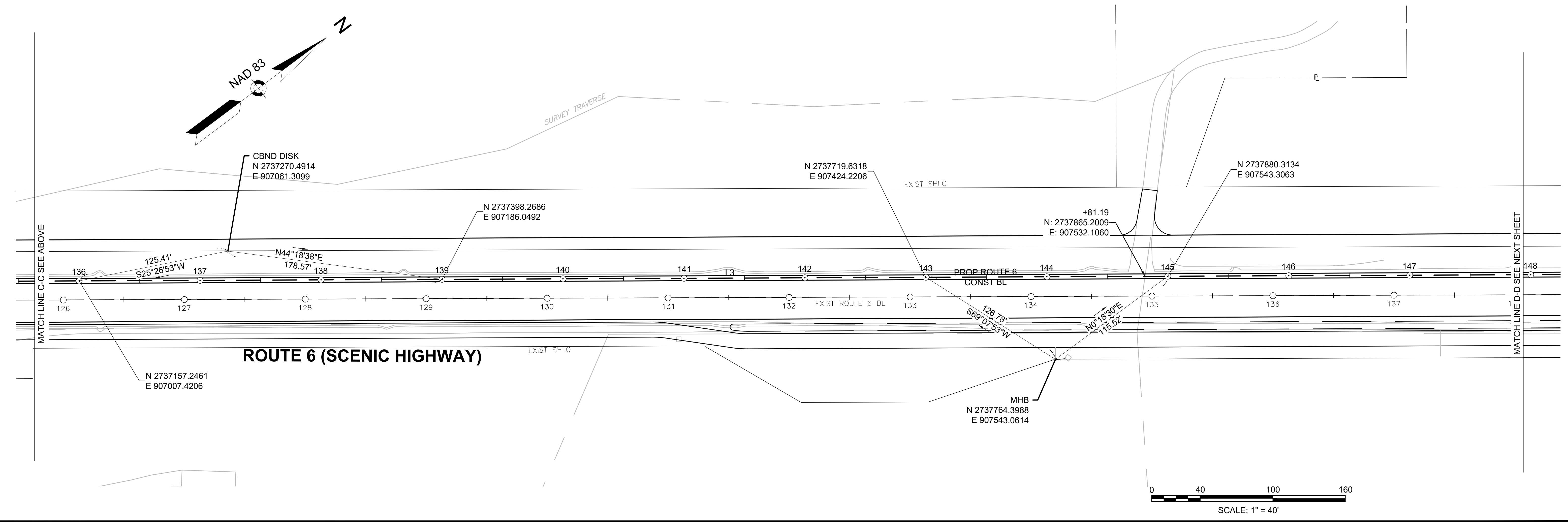
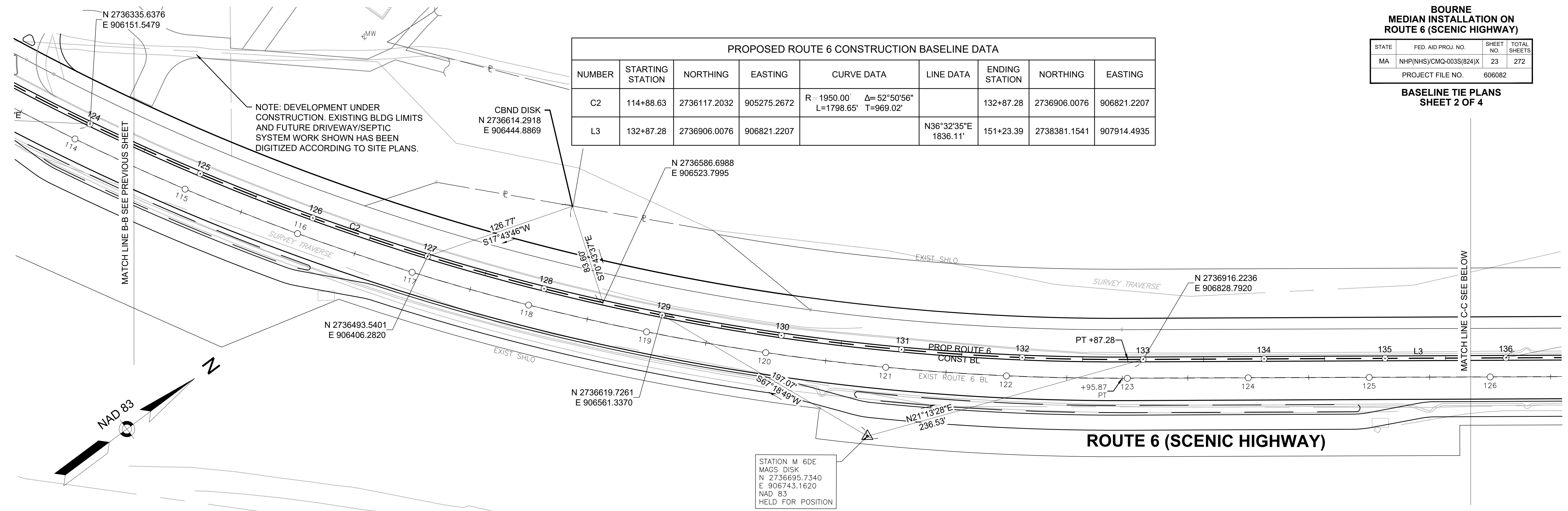


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	23	272
PROJECT FILE NO.		606082	

**BASELINE TIE PLANS  
SHEET 2 OF 4**

PROPOSED ROUTE 6 CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C2	114+88.63	2736117.2032	905275.2672	R=1950.00' Δ=52°50'56" L=1798.65' T=969.02'		132+87.28	2736906.0076	906821.2207
L3	132+87.28	2736906.0076	906821.2207		N36°32'35"E 1836.11'	151+23.39	2738381.1541	907914.4935

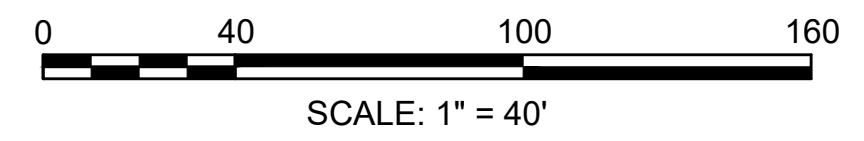
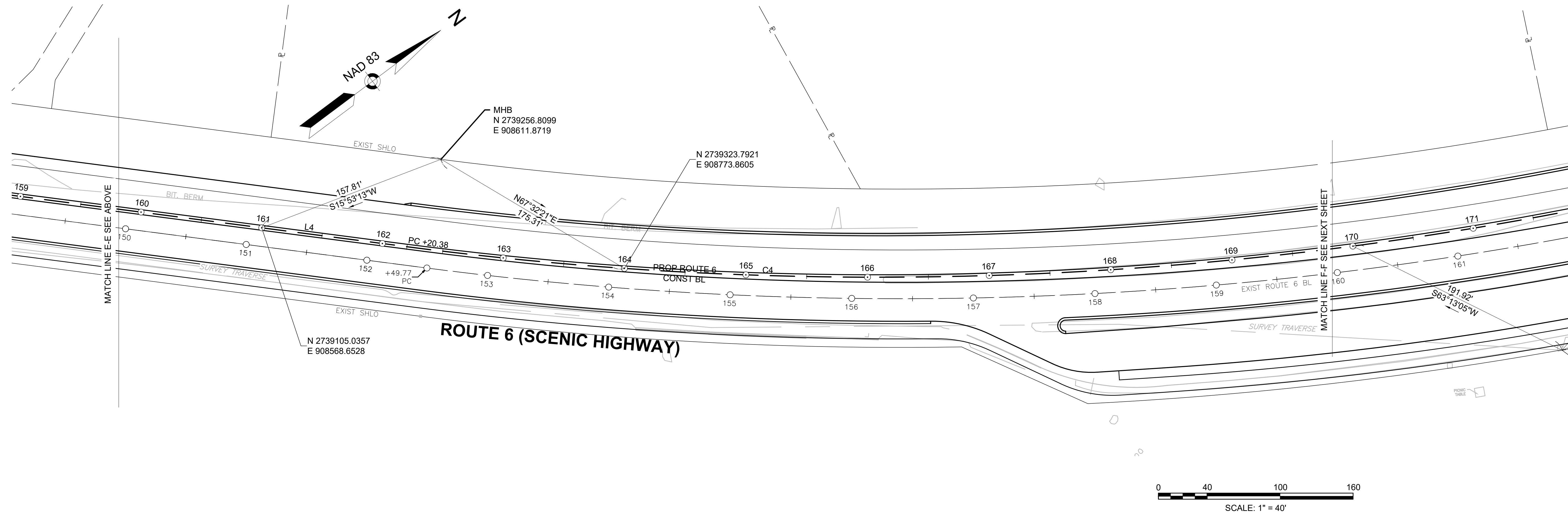
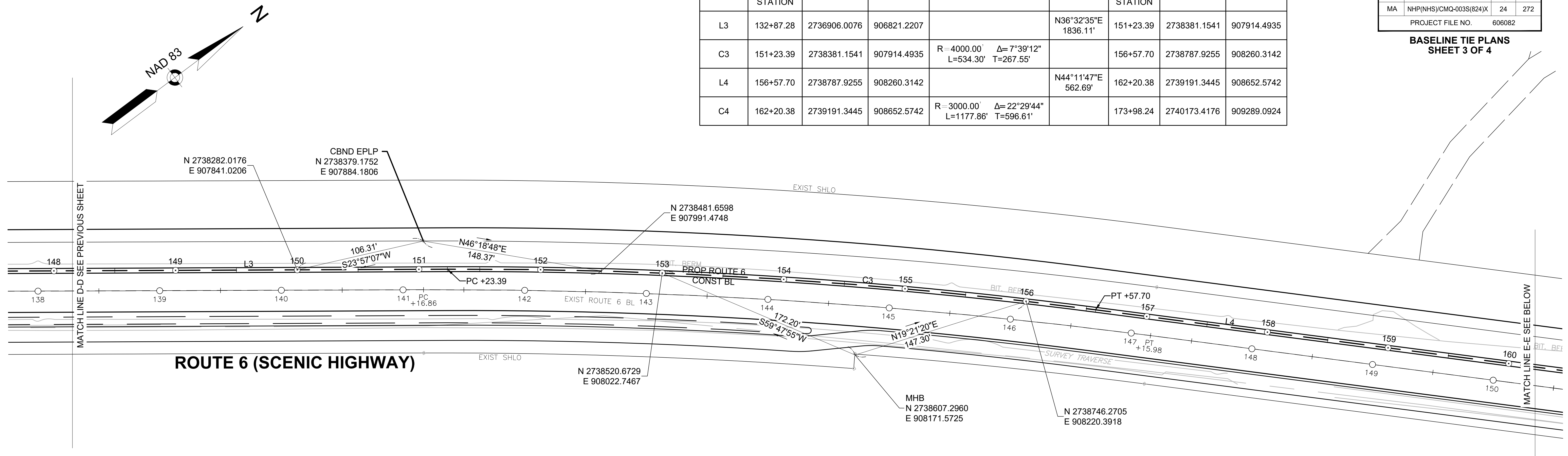


PROPOSED ROUTE 6 CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L3	132+87.28	2736906.0076	906821.2207		N36°32'35"E 1836.11'	151+23.39	2738381.1541	907914.4935
C3	151+23.39	2738381.1541	907914.4935	R= 4000.00' Δ= 7°39'12" L=534.30' T=267.55'		156+57.70	2738787.9255	908260.3142
L4	156+57.70	2738787.9255	908260.3142		N44°11'47"E 562.69'	162+20.38	2739191.3445	908652.5742
C4	162+20.38	2739191.3445	908652.5742	R= 3000.00' Δ= 22°29'44" L=1177.86' T=596.61'		173+98.24	2740173.4176	909289.0924

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	24	272
PROJECT FILE NO.		606082	

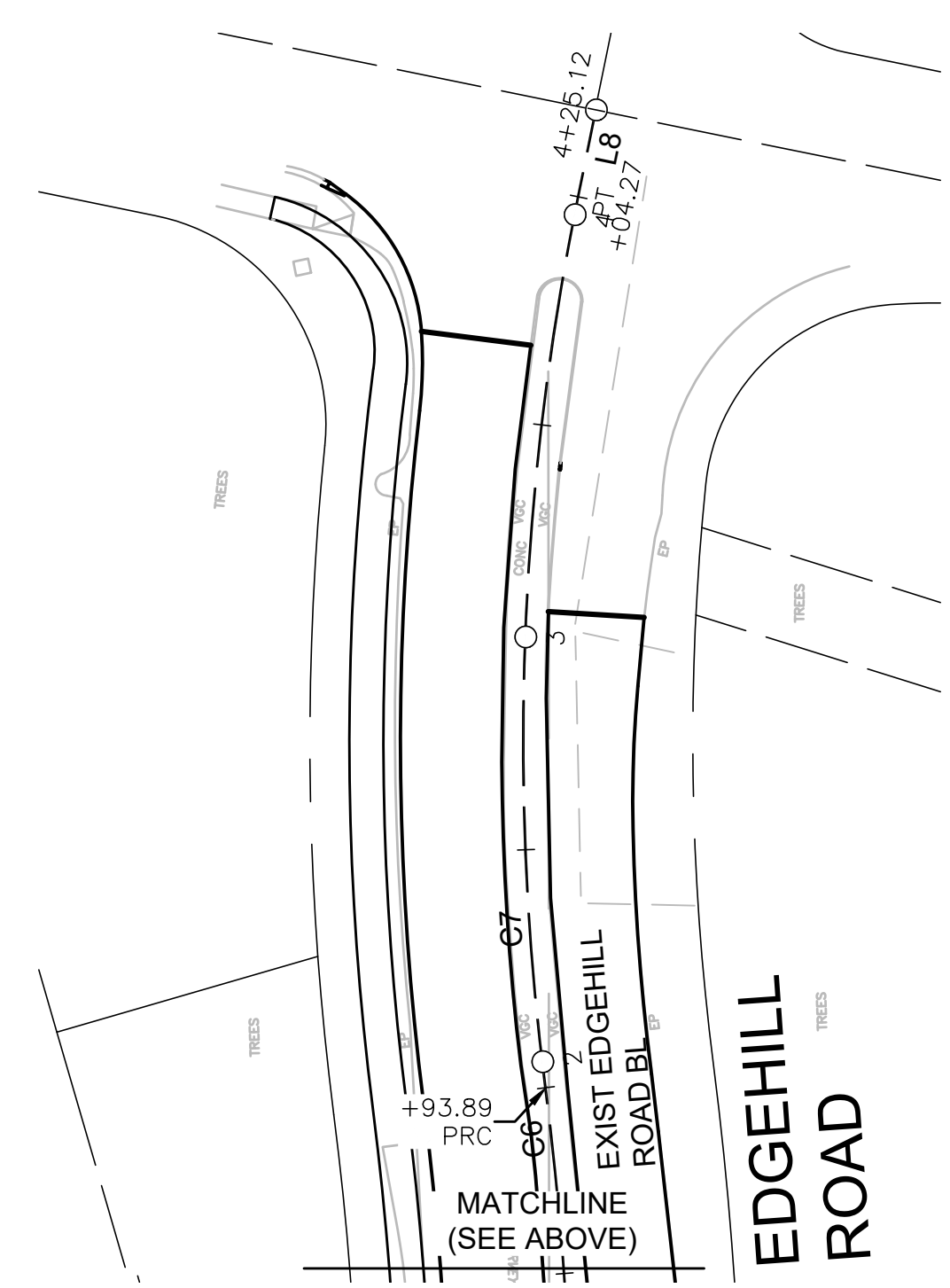
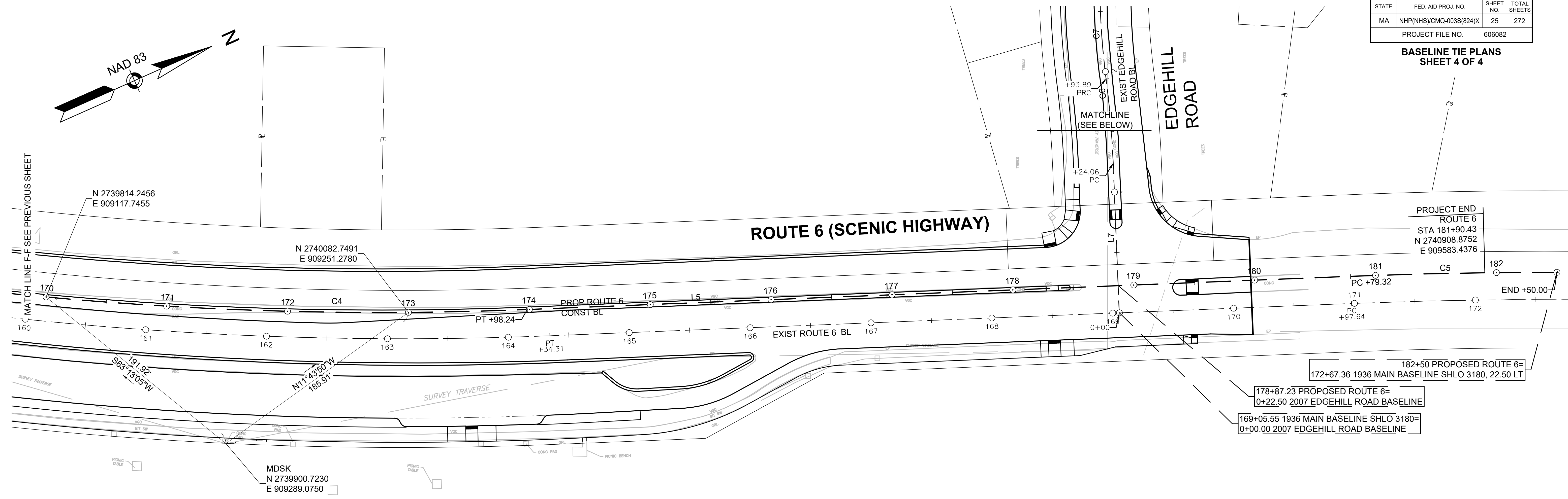
**BASELINE TIE PLANS  
SHEET 3 OF 4**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

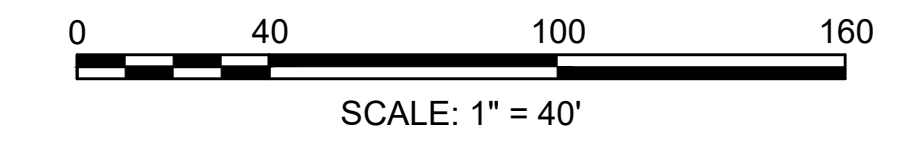
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	25	272
PROJECT FILE NO.		606082	

**BASELINE TIE PLANS  
SHEET 4 OF 4**



NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C4	162+20.38	2739191.3445	908652.5742	R=3000.00' Δ=22°29'44" L=1177.86' T=596.61'		173+98.24	2740173.4176	909289.0924
L5	173+98.24	2740173.4176	909289.0924		N21°42'04"E 681.08'	180+79.32	2740806.2283	909540.9318
C5	180+79.32	2740806.2283	909540.9318	R=4012.00' Δ=2°26'15" L=170.68' T=85.35'		182+50.00	2740963.4175	909607.3950

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L7	0+00.00	2740619.4328	909490.8092		N68°17'56"W 124.06'	1+24.06	2740665.3057	909375.5418
C6	1+24.06	2740665.3057	909375.5418	R=800.00' Δ=5°00'04" L=69.83' T=34.94'		1+93.89	2740688.2637	909309.6172
C7	1+93.89	2740688.2637	909309.6172	R=640.00' Δ=18°50'03" L=210.38' T=106.15'		4+04.27	2740780.4576	909121.5668
L8	4+04.27	2740780.4576	909121.5668		N54°27'58"W 20.85'	4+25.12	2740792.5752	909104.5997





HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 141

WATER SUPPLY ALTERATIONS

SEE SHEET 92

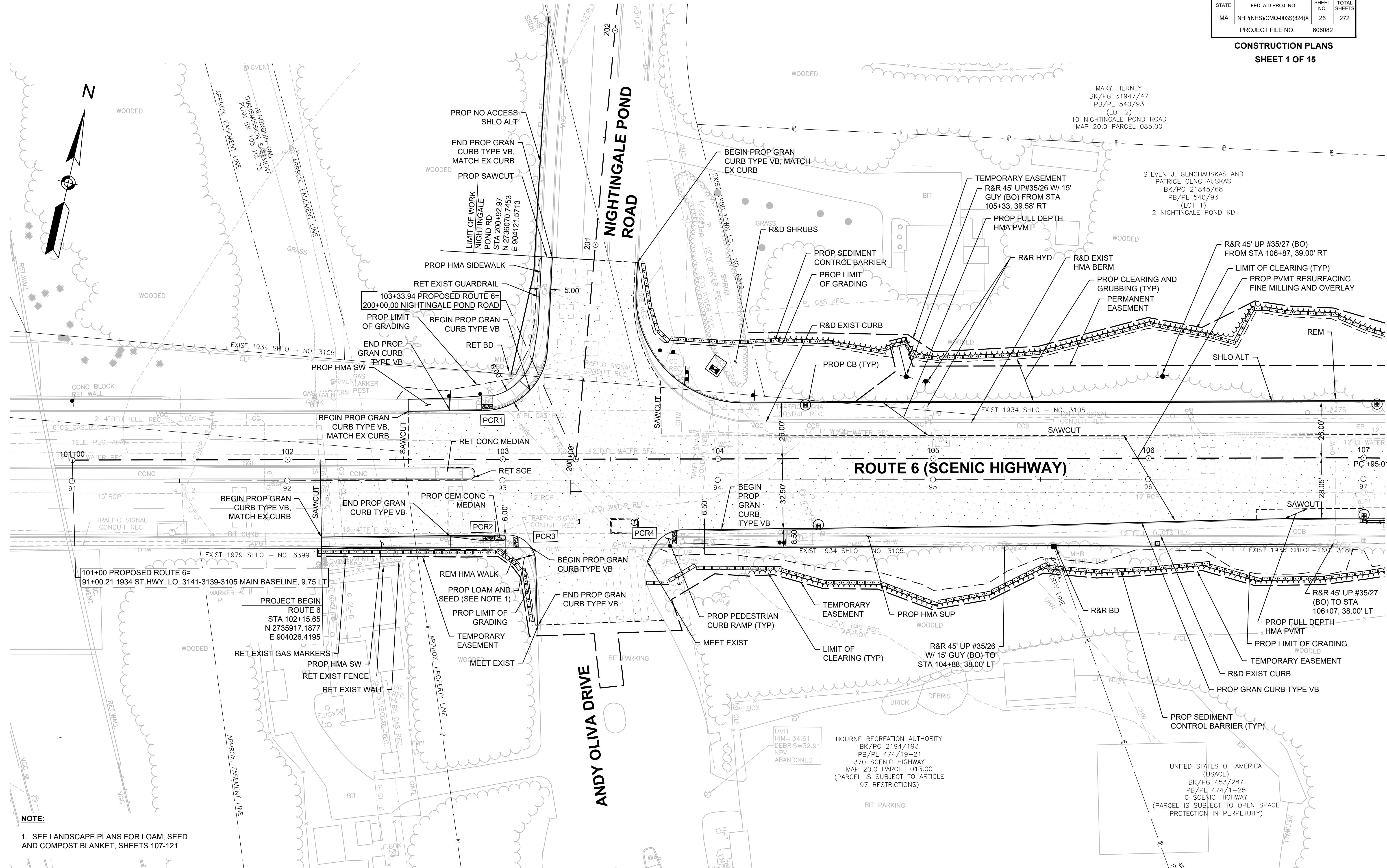
DRAINAGE DETAILS

SEE SHEET 92

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

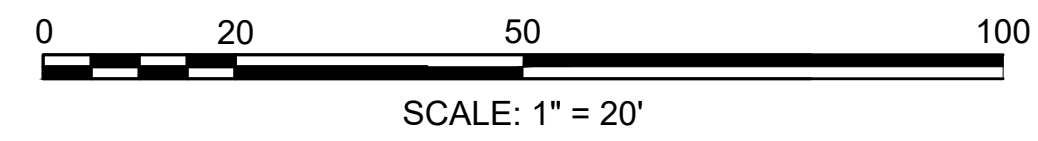
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	26	272
PROJECT FILE NO.		606082	

**CONSTRUCTION PLANS  
SHEET 1 OF 15**



**NOTE:**  
1. SEE LANDSCAPE PLANS FOR LOAM, SEED AND COMPOST BLANKET, SHEETS 107-121

FOR PROFILE: SEE SHEET 41



606082\_H05(CONSTRUCTION).DWG  
Plotted on 17-Mar-2025 9:55 AM



**HIGHWAY GUARD DETAILS**  
 GUARDRAIL TANGENT END, TL-3  
 GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING) STA 107+00 RT  
 STA 107+13 RT TO STA 123+47 RT

**TRAFFIC SIGNAL CONDUIT**  
 NONE

**WATER SUPPLY ALTERATIONS**  
 SEE SHEET 93

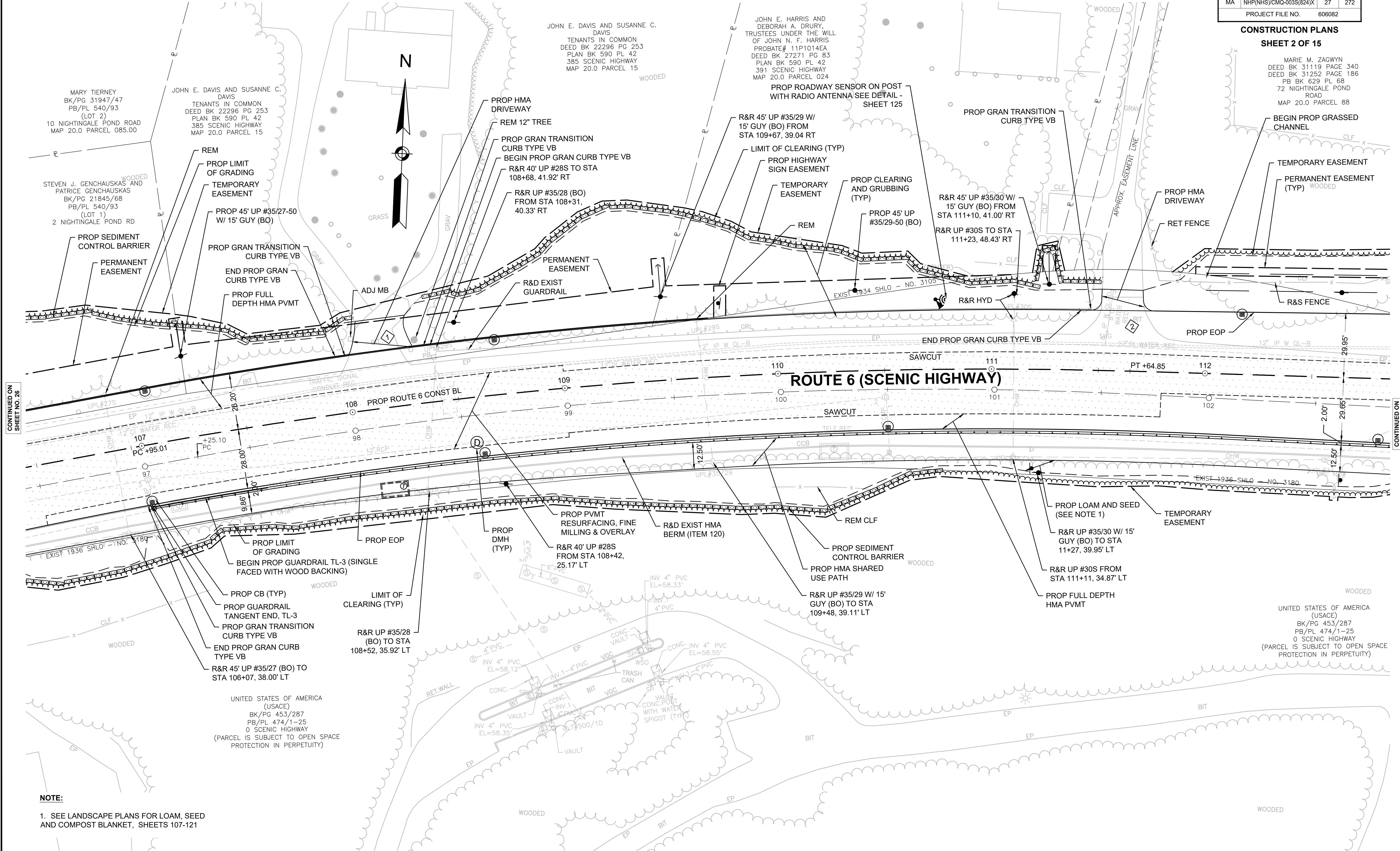
**DRAINAGE DETAILS**  
 SEE SHEET 93

**BOURNE  
 MEDIAN INSTALLATION ON  
 ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	27	272
PROJECT FILE NO. 606082			

**CONSTRUCTION PLANS  
 SHEET 2 OF 15**

MARIE M. ZAGWYN  
 DEED BK 31119 PAGE 340  
 DEED BK 31252 PAGE 186  
 PB BK 629 PL 68  
 72 NIGHTINGALE POND  
 ROAD  
 MAP 20.0 PARCEL 88



CONTINUED ON  
 SHEET NO. 26

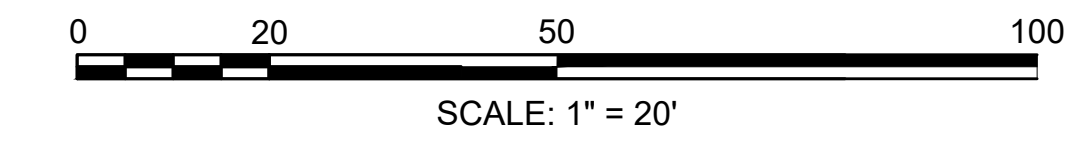
CONTINUED ON  
 SHEET NO. 28

**NOTE:**  
 1. SEE LANDSCAPE PLANS FOR LOAM, SEED  
 AND COMPOST BLANKET, SHEETS 107-121

UNITED STATES OF AMERICA  
 (USACE)  
 BK/PG 453/287  
 PB/PL 474/1-25  
 0 SCENIC HIGHWAY  
 (PARCEL IS SUBJECT TO OPEN SPACE  
 PROTECTION IN PERPETUITY)

UNITED STATES OF AMERICA  
 (USACE)  
 BK/PG 453/287  
 PB/PL 474/1-25  
 0 SCENIC HIGHWAY  
 (PARCEL IS SUBJECT TO OPEN SPACE  
 PROTECTION IN PERPETUITY)

FOR PROFILE: SEE SHEET 42



HIGHWAY GUARD DETAILS  
 GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING) STA 107+13 RT TO STA 123+47 RT

TRAFFIC SIGNAL CONDUIT  
 NONE

WATER SUPPLY ALTERATIONS  
 SEE SHEET 94

DRAINAGE DETAILS  
 SEE SHEET 94

**BOURNE**  
**MEDIAN INSTALLATION ON**  
**ROUTE 6 (SCENIC HIGHWAY)**

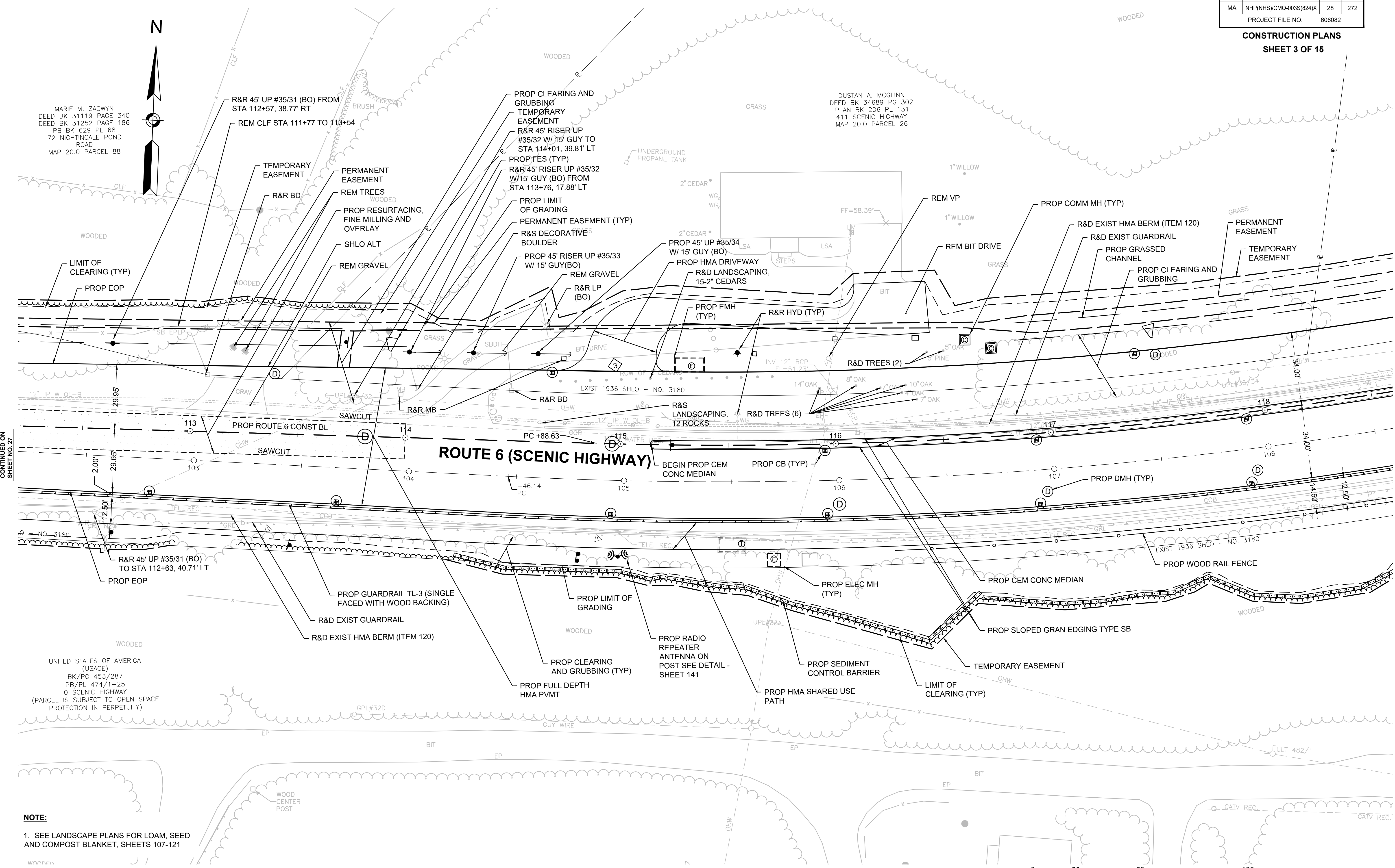
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	28	272

PROJECT FILE NO. 606082

**CONSTRUCTION PLANS**  
**SHEET 3 OF 15**

MARIE M. ZAGWYN  
 DEED BK 31119 PAGE 340  
 DEED BK 31252 PAGE 186  
 PB BK 629 PL 68  
 72 NIGHTINGALE POND  
 ROAD  
 MAP 20.0 PARCEL 88

DUSTAN A. MCGLINN  
 DEED BK 34689 PG 302  
 PLAN BK 206 PL 131  
 411 SCENIC HIGHWAY  
 MAP 20.0 PARCEL 26



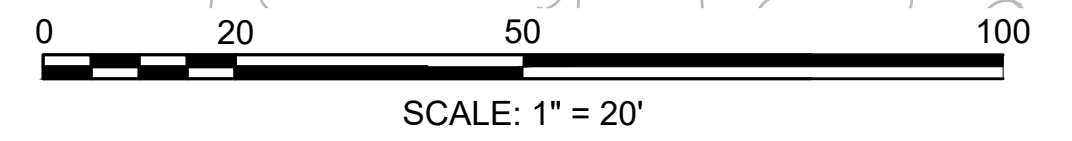
CONTINUED ON SHEET NO. 27

CONTINUED ON SHEET NO. 29

UNITED STATES OF AMERICA  
 (USACE)  
 BK/PG 453/287  
 PB/PL 474/1-25  
 0 SCENIC HIGHWAY  
 (PARCEL IS SUBJECT TO OPEN SPACE  
 PROTECTION IN PERPETUITY)

**NOTE:**  
 1. SEE LANDSCAPE PLANS FOR LOAM, SEED  
 AND COMPOST BLANKET, SHEETS 107-121

FOR PROFILE: SEE SHEET 43





**HIGHWAY GUARD DETAILS**  
 GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING)  
 TRAILING ANCHORAGE, TL-3

STA 107+13 RT TO STA 123+47 RT  
 STA 123+57 RT

**TRAFFIC SIGNAL CONDUIT**  
 NONE

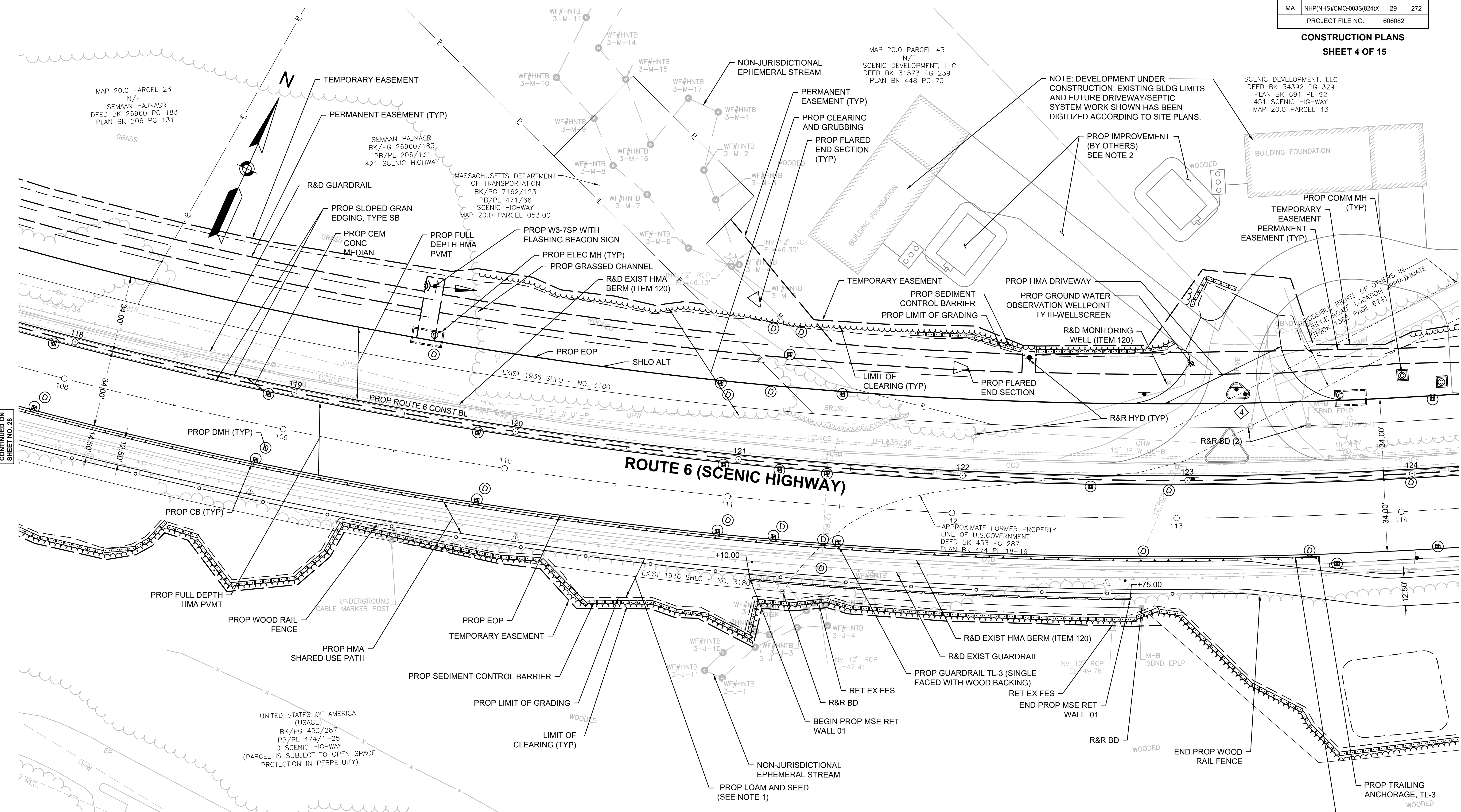
**WATER SUPPLY ALTERATIONS**  
 SEE SHEET 95

**DRAINAGE DETAILS**  
 SEE SHEET 95

**BOURNE**  
**MEDIAN INSTALLATION ON**  
**ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	29	272
PROJECT FILE NO. 606082			

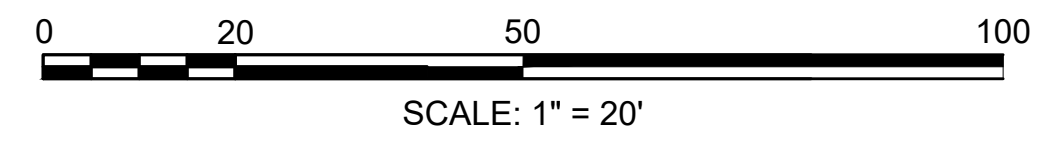
**CONSTRUCTION PLANS**  
**SHEET 4 OF 15**



**NOTE:**

- SEE LANDSCAPE PLANS FOR LOAM, SEED AND COMPOST BLANKET, SHEETS 107-121.
- PROPERTY IS CURRENTLY UNDER CONSTRUCTION (BY OTHERS) AND EXISTING CONDITIONS WILL CHANGE THROUGHOUT THE CONTRACT DURATION. CONTRACTOR TO FIELD VERIFY TIE-IN LOCATIONS OF UTILITIES, DRIVEWAYS AND CURB RETURNS AND SUBMIT TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- BUILDING FOUNDATIONS, DRIVEWAYS AND SEPTIC SYSTEMS SHOWN ON 431-461 SCENIC HIGHWAY ARE DIGITIZED FROM SITE PLANS AND ARE SHOWN FOR REFERENCE ONLY.

FOR PROFILE: SEE SHEET 44



CONTINUED ON SHEET NO. 28

CONTINUED ON SHEET NO. 30

606082\_H05(CONSTRUCTION).DWG Plotted on 17-Mar-2025 9:56 AM

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	30	272
PROJECT FILE NO.		606082	

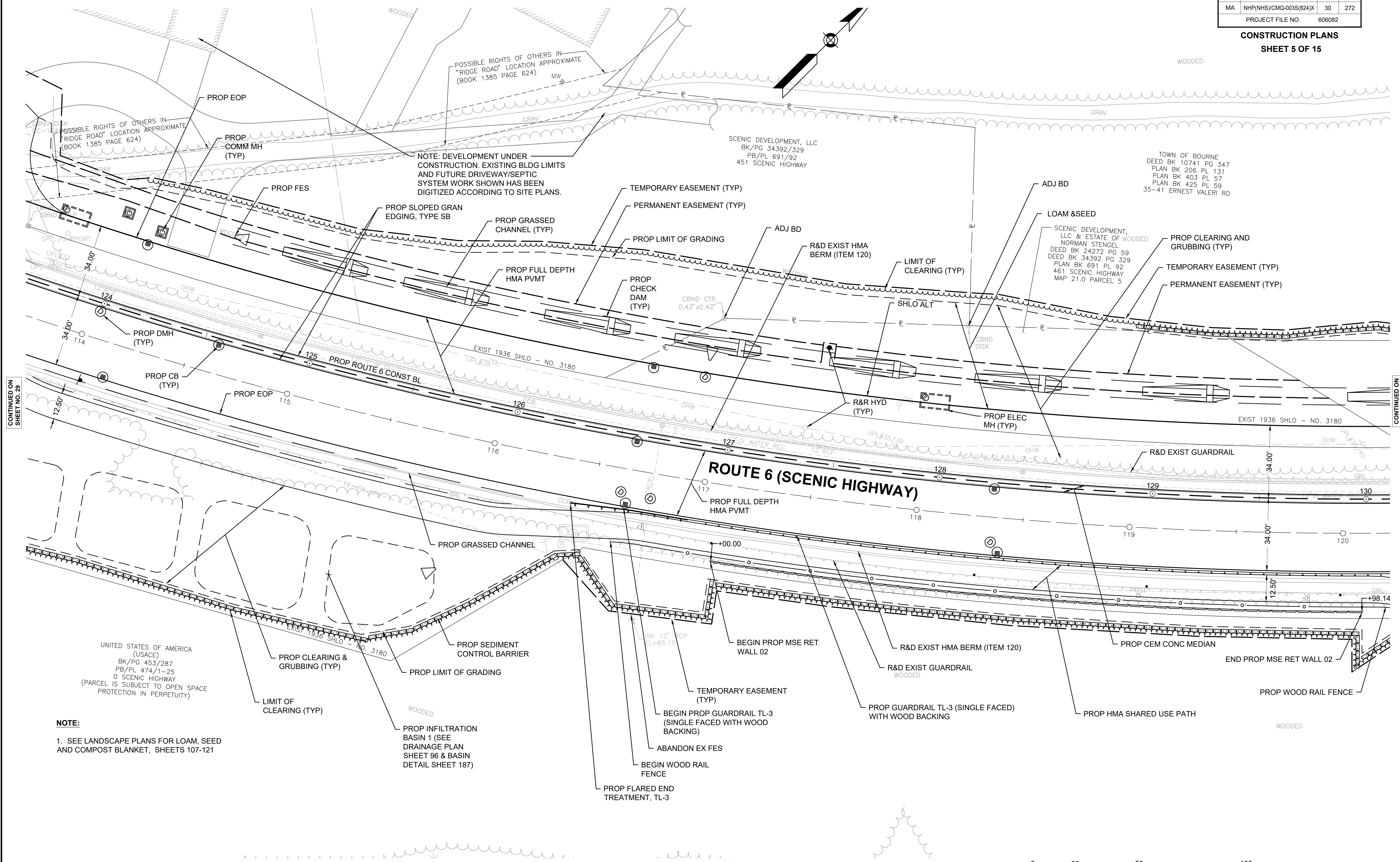
**CONSTRUCTION PLANS  
SHEET 5 OF 15**

**HIGHWAY GUARD DETAILS**  
 GUARDRAIL FLARED END TREATMENT, TL-3 STA 126+31 RT  
 GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING) STA 126+56 RT TO STA 130+37 RT

**TRAFFIC SIGNAL CONDUIT**  
NONE

**WATER SUPPLY ALTERATIONS**  
SEE SHEET 96

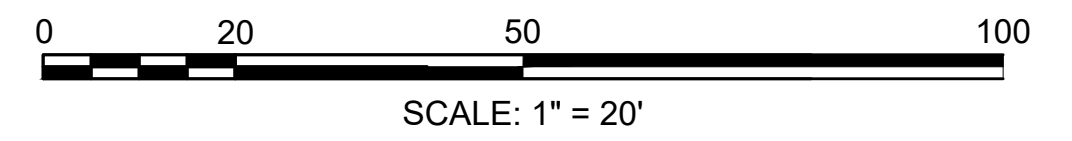
**DRAINAGE DETAILS**  
SEE SHEET 96



UNITED STATES OF AMERICA  
 (USACE)  
 BK/PG 453/287  
 PB/PL 474/1-25  
 SCENIC HIGHWAY  
 (PARCEL IS SUBJECT TO OPEN SPACE  
 PROTECTION IN PERPETUITY)

**NOTE:**  
 1. SEE LANDSCAPE PLANS FOR LOAM, SEED  
 AND COMPOST BLANKET, SHEETS 107-121

FOR PROFILE: SEE SHEET 45



CONTINUED ON  
SHEET NO. 29

CONTINUED ON  
SHEET NO. 31

606082\_H05(CONSTRUCTION).DWG Plotted on 17-Mar-2025 9:56 AM



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	31	272
PROJECT FILE NO.		606082	

**CONSTRUCTION PLANS  
SHEET 6 OF 15**

**HIGHWAY GUARD DETAILS**  
 GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING) STA 126+56 RT TO STA 130+37 RT  
 TRAILING ANCHORAGE, TL-3 STA 130+47 RT  
 GUARDRAIL FLARED END TREATMENT, TL-3 STA 134+82 RT  
 GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING) STA 134+95 RT TO STA 141+22 RT

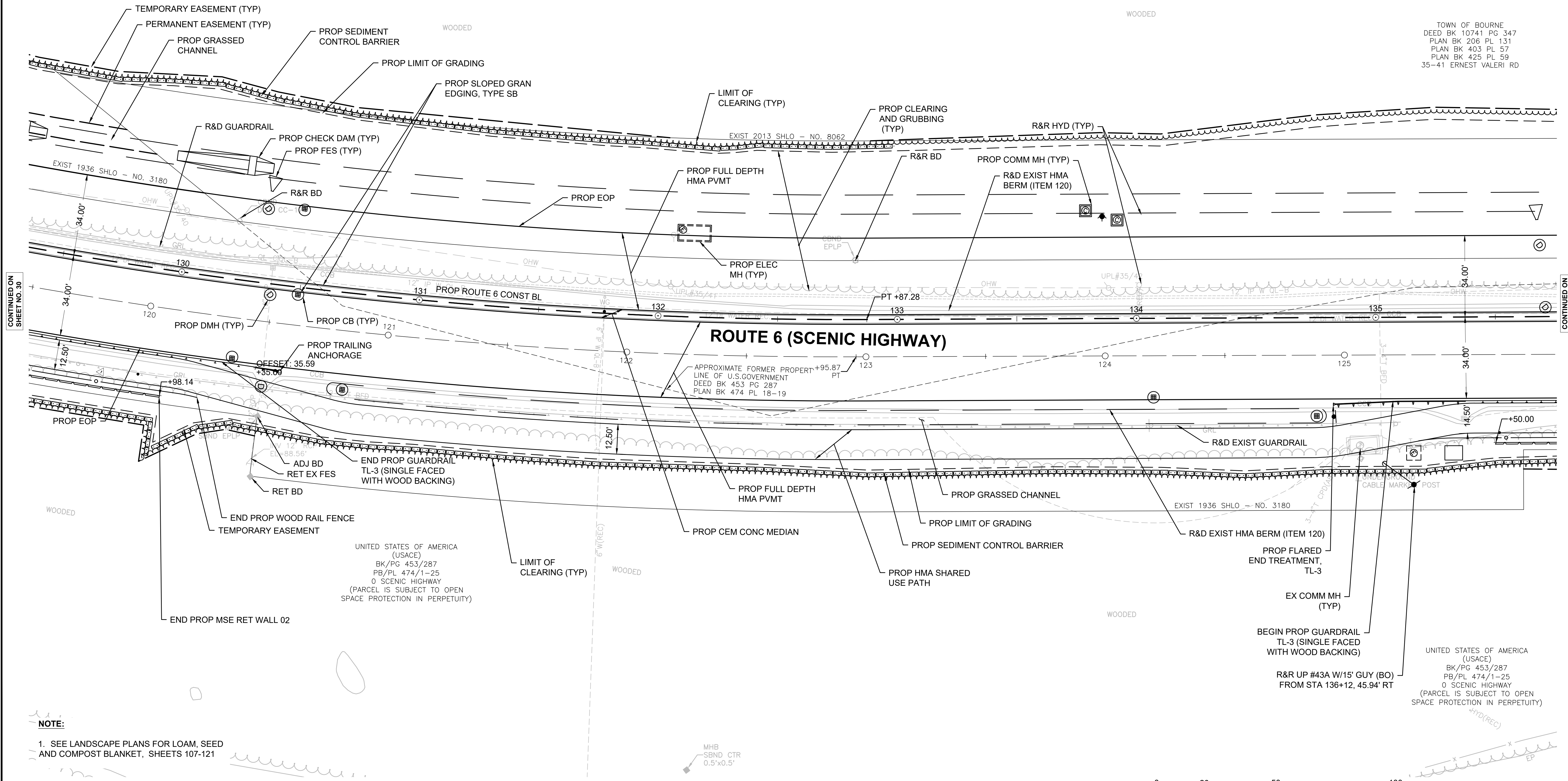
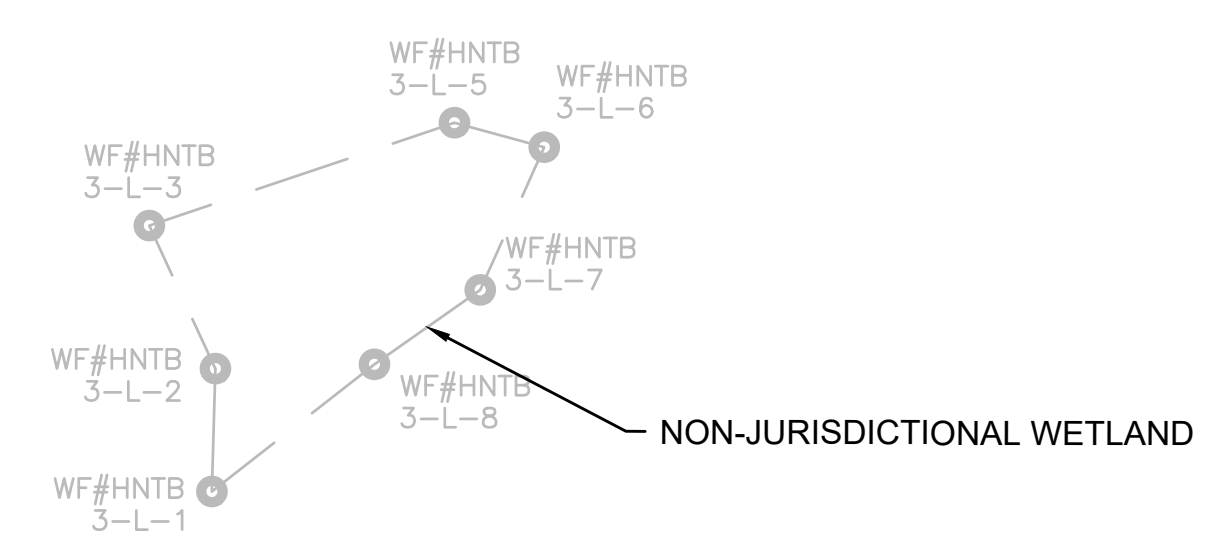
**TRAFFIC SIGNAL CONDUIT**  
NONE

**WATER SUPPLY ALTERATIONS**  
SEE SHEET 97

**DRAINAGE DETAILS**  
SEE SHEET 97

TOWN OF BOURNE  
 DEED BK 10741 PG 347  
 PLAN BK 206 PL 131  
 PLAN BK 403 PL 57  
 PLAN BK 425 PL 59  
 35-41 ERNEST VALERI RD

TOWN OF BOURNE  
 DEED BK 10741 PG 347  
 PLAN BK 206 PL 131  
 PLAN BK 403 PL 57  
 PLAN BK 425 PL 59  
 35-41 ERNEST VALERI RD



CONTINUED ON  
SHEET NO. 30

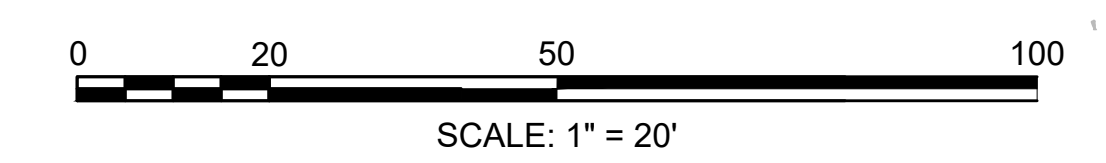
CONTINUED ON  
SHEET NO. 32

**NOTE:**  
 1. SEE LANDSCAPE PLANS FOR LOAM, SEED AND COMPOST BLANKET, SHEETS 107-121

UNITED STATES OF AMERICA (USACE)  
 BK/PG 453/287  
 PB/PL 474/1-25  
 0 SCENIC HIGHWAY  
 (PARCEL IS SUBJECT TO OPEN SPACE PROTECTION IN PERPETUITY)

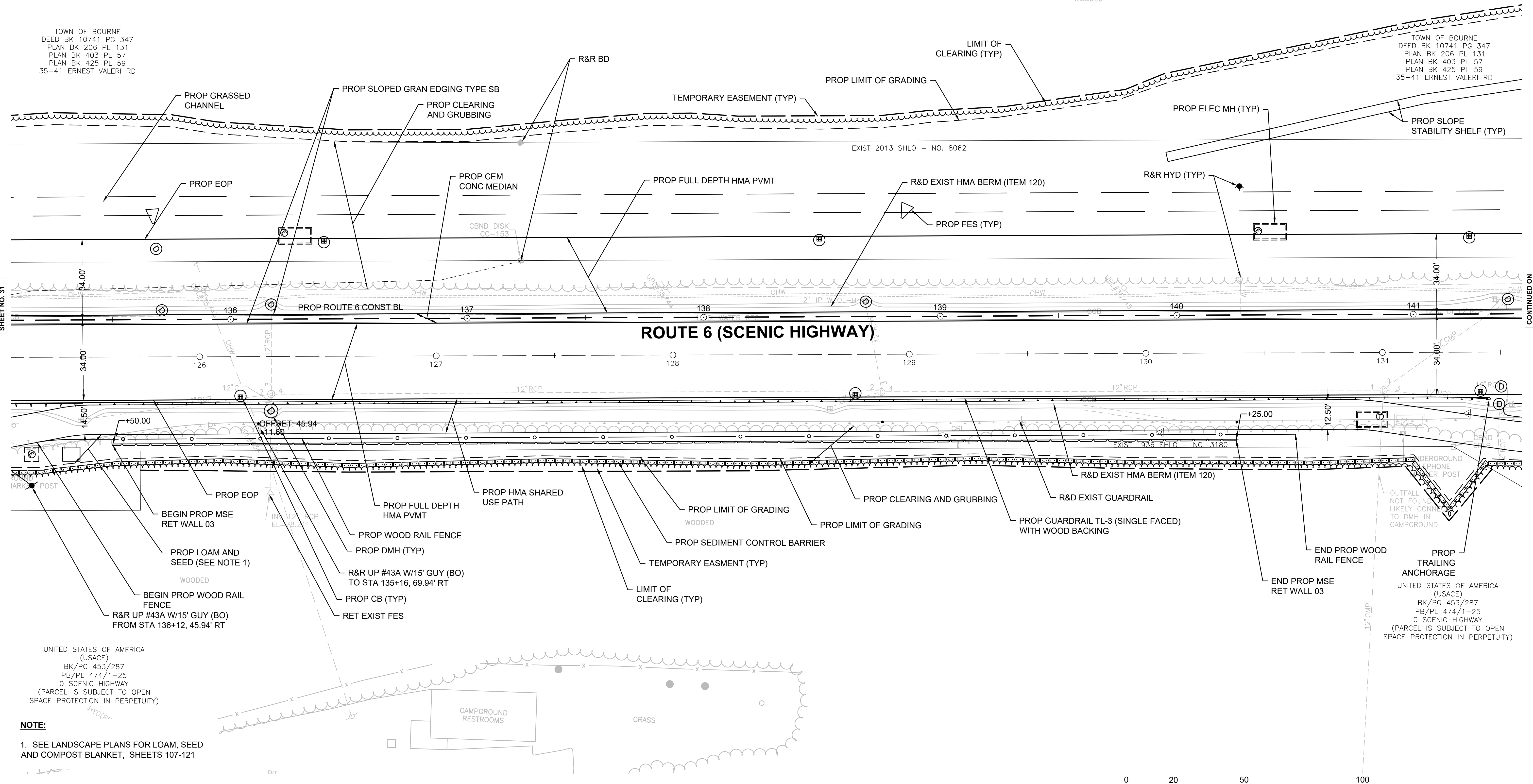
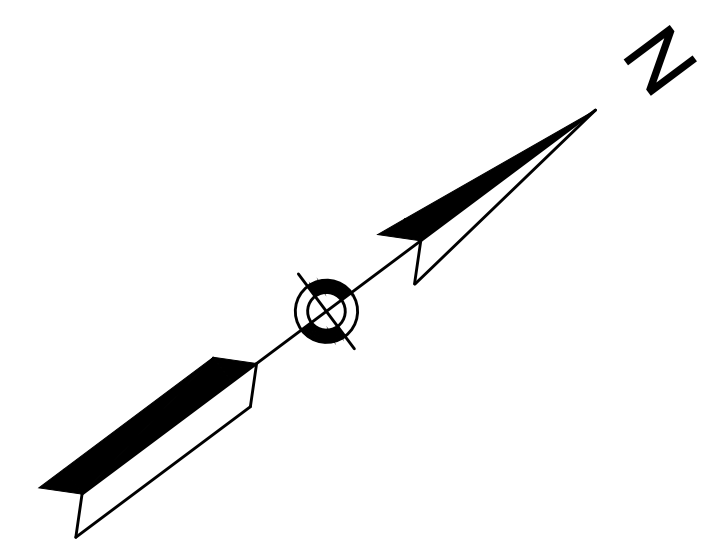
UNITED STATES OF AMERICA (USACE)  
 BK/PG 453/287  
 PB/PL 474/1-25  
 0 SCENIC HIGHWAY  
 (PARCEL IS SUBJECT TO OPEN SPACE PROTECTION IN PERPETUITY)

FOR PROFILE: SEE SHEET 46





<b>HIGHWAY GUARD DETAILS</b>	<b>TRAFFIC SIGNAL CONDUIT</b>	<b>WATER SUPPLY ALTERATIONS</b>	<b>DRAINAGE DETAILS</b>
GUARDRAIL FLARED END TREATMENT, TL-3 GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING) TRAILING ANCHORAGE, TL-3	NONE	SEE SHEET 98	SEE SHEET 98
STA 134+82 RT STA 134+95 RT TO STA 141+22 RT STA 141+32 RT			



TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

CONTINUED ON SHEET NO. 31

CONTINUED ON SHEET NO. 33

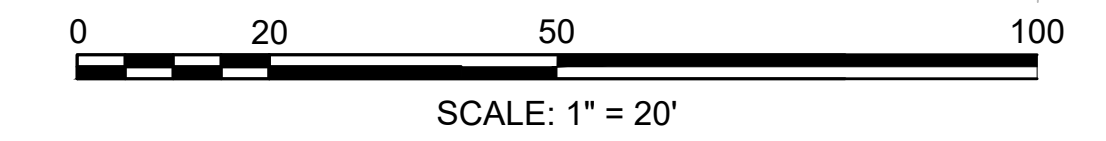
UNITED STATES OF AMERICA (USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
O SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN SPACE PROTECTION IN PERPETUITY)

OUTFALL NOT FOUND, LIKELY CONNECTED TO DMH IN CAMPGROUND

PROP TRAILING ANCHORAGE  
UNITED STATES OF AMERICA (USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
O SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN SPACE PROTECTION IN PERPETUITY)

**NOTE:**  
1. SEE LANDSCAPE PLANS FOR LOAM, SEED AND COMPOST BLANKET, SHEETS 107-121

FOR PROFILE: SEE SHEET 47



**HIGHWAY GUARD DETAILS**  
 GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING) STA 134+95 RT TO STA 141+22 RT  
 TRAILING ANCHORAGE, TL-3 STA 141+32 RT

**TRAFFIC SIGNAL CONDUIT**  
 NONE

**WATER SUPPLY ALTERATIONS**  
 SEE SHEET 99

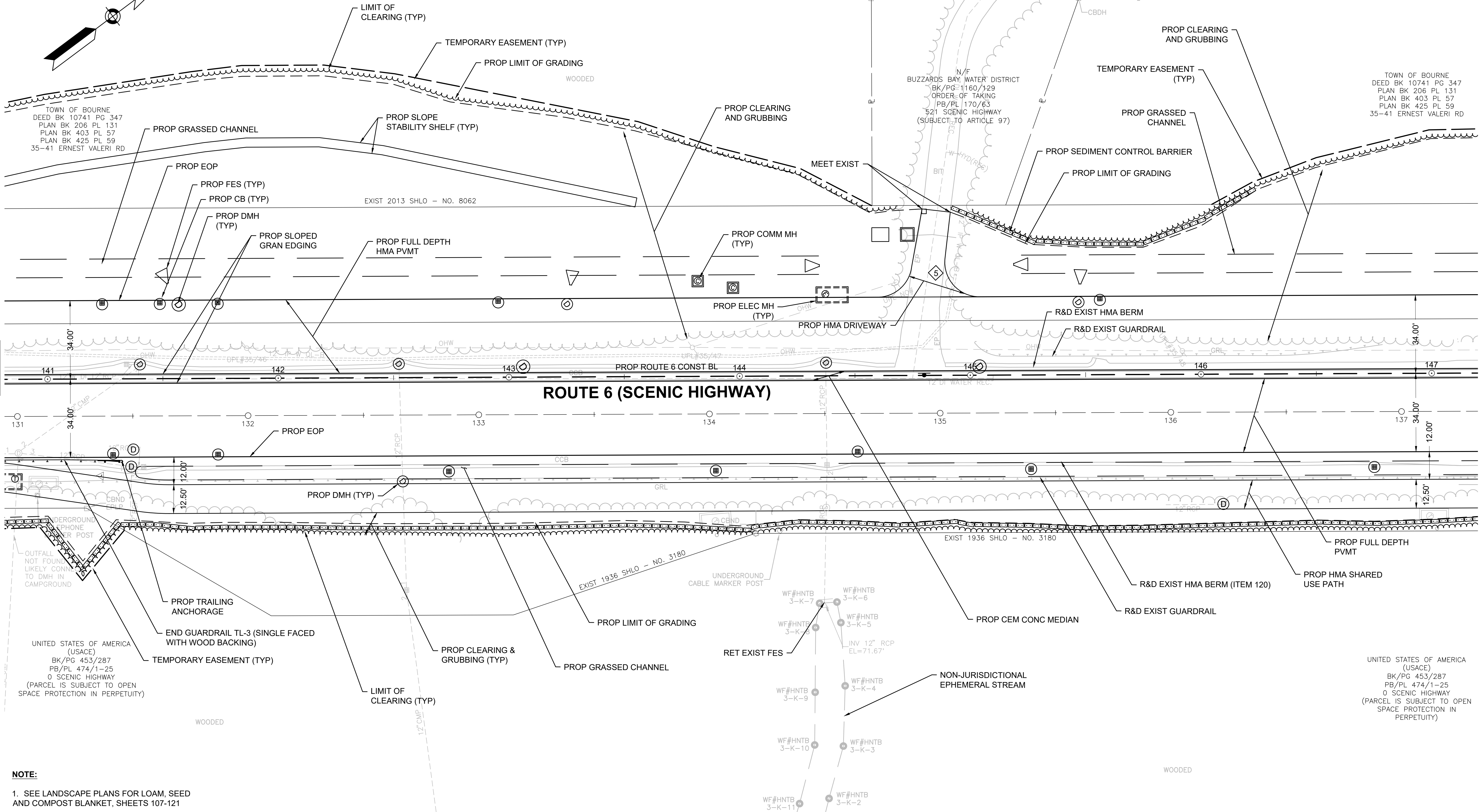
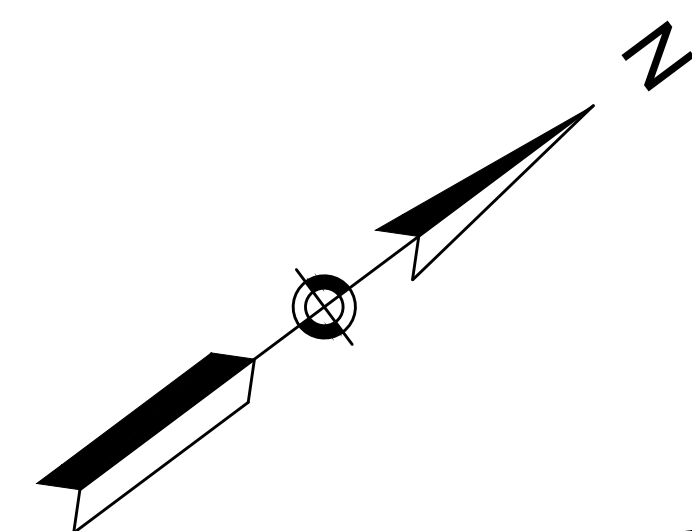
**DRAINAGE DETAILS**  
 SEE SHEET 99

**BOURNE  
 MEDIAN INSTALLATION ON  
 ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	33	272

PROJECT FILE NO. 606082

**CONSTRUCTION PLANS  
 SHEET 8 OF 15**

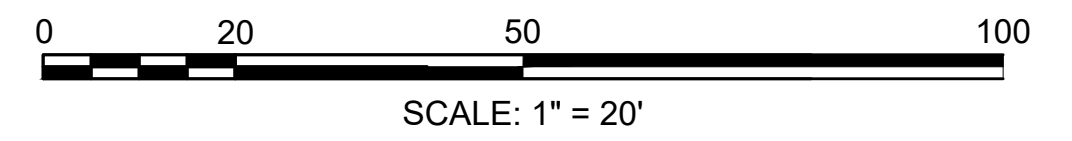


CONTINUED ON  
 SHEET NO. 32

CONTINUED ON  
 SHEET NO. 34

**NOTE:**  
 1. SEE LANDSCAPE PLANS FOR LOAM, SEED AND COMPOST BLANKET, SHEETS 107-121

FOR PROFILE: SEE SHEET 48



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 100

DRAINAGE DETAILS

SEE SHEET 100

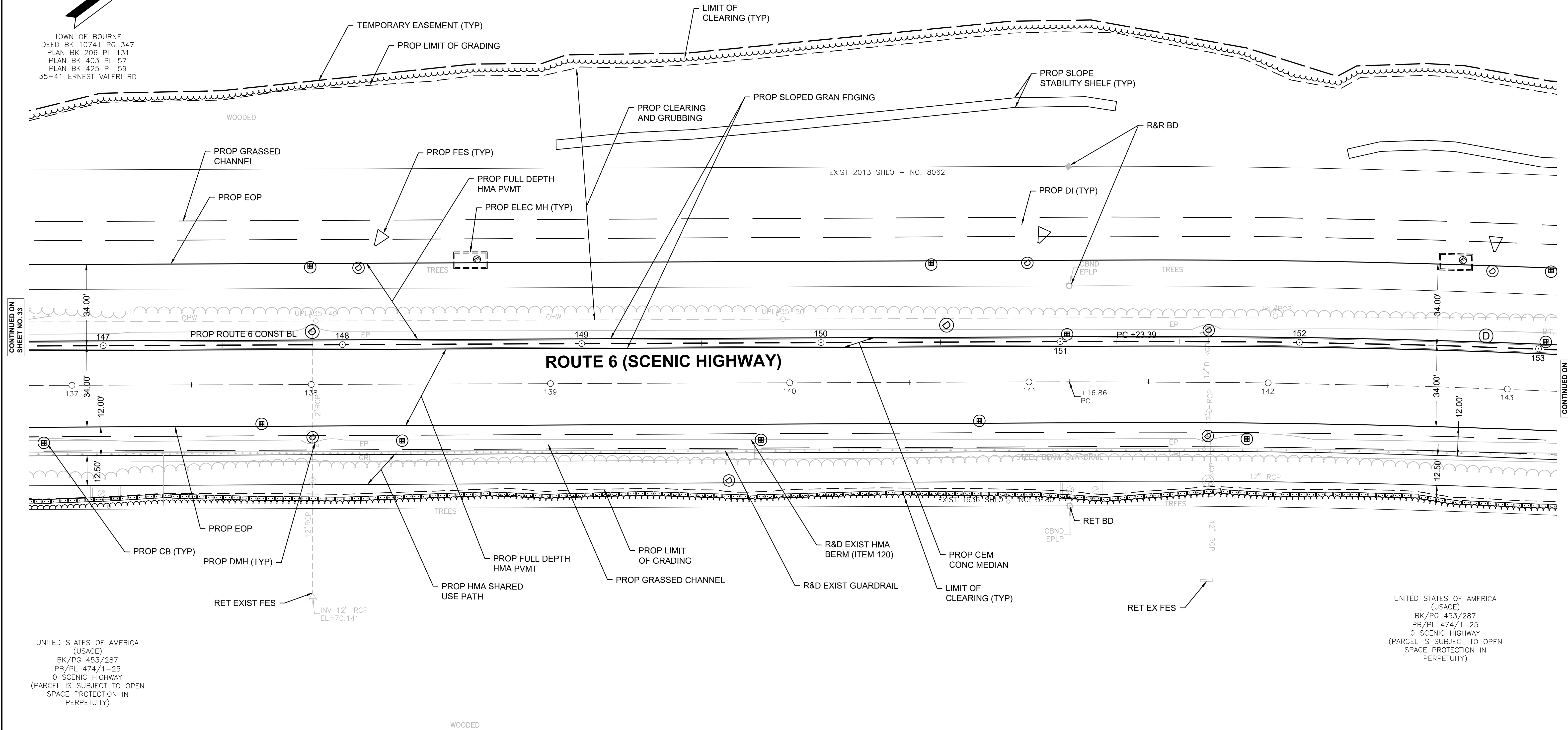
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	34	272
PROJECT FILE NO.		606082	

**CONSTRUCTION PLANS  
SHEET 9 OF 15**

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

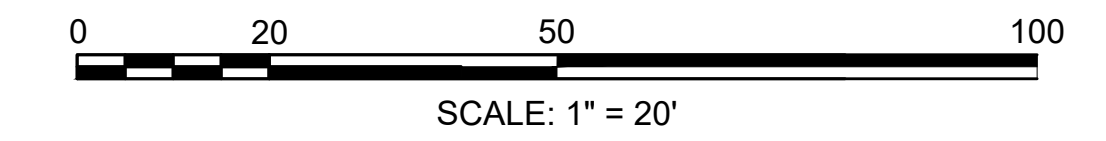


UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
0 SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN  
SPACE PROTECTION IN  
PERPETUITY)

UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
0 SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN  
SPACE PROTECTION IN  
PERPETUITY)

**NOTE:**  
1. SEE LANDSCAPE PLANS FOR LOAM, SEED AND  
COMPOST BLANKET, SHEETS 107-121

FOR PROFILE: SEE SHEET 49



CONTINUED ON  
SHEET NO. 33

CONTINUED ON  
SHEET NO. 33

606082\_H09(CONSTRUCTION).DWG Plotted on 17-Mar-2025 9:57 AM



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	35	272
PROJECT FILE NO.		606082	

**CONSTRUCTION PLANS  
SHEET 10 OF 15**

**HIGHWAY GUARD DETAILS**  
 GUARDRAIL FLARED END TREATMENT, TL-3 STA 154+39 RT  
 GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING) STA 154+52 RT TO STA 167+41 RT

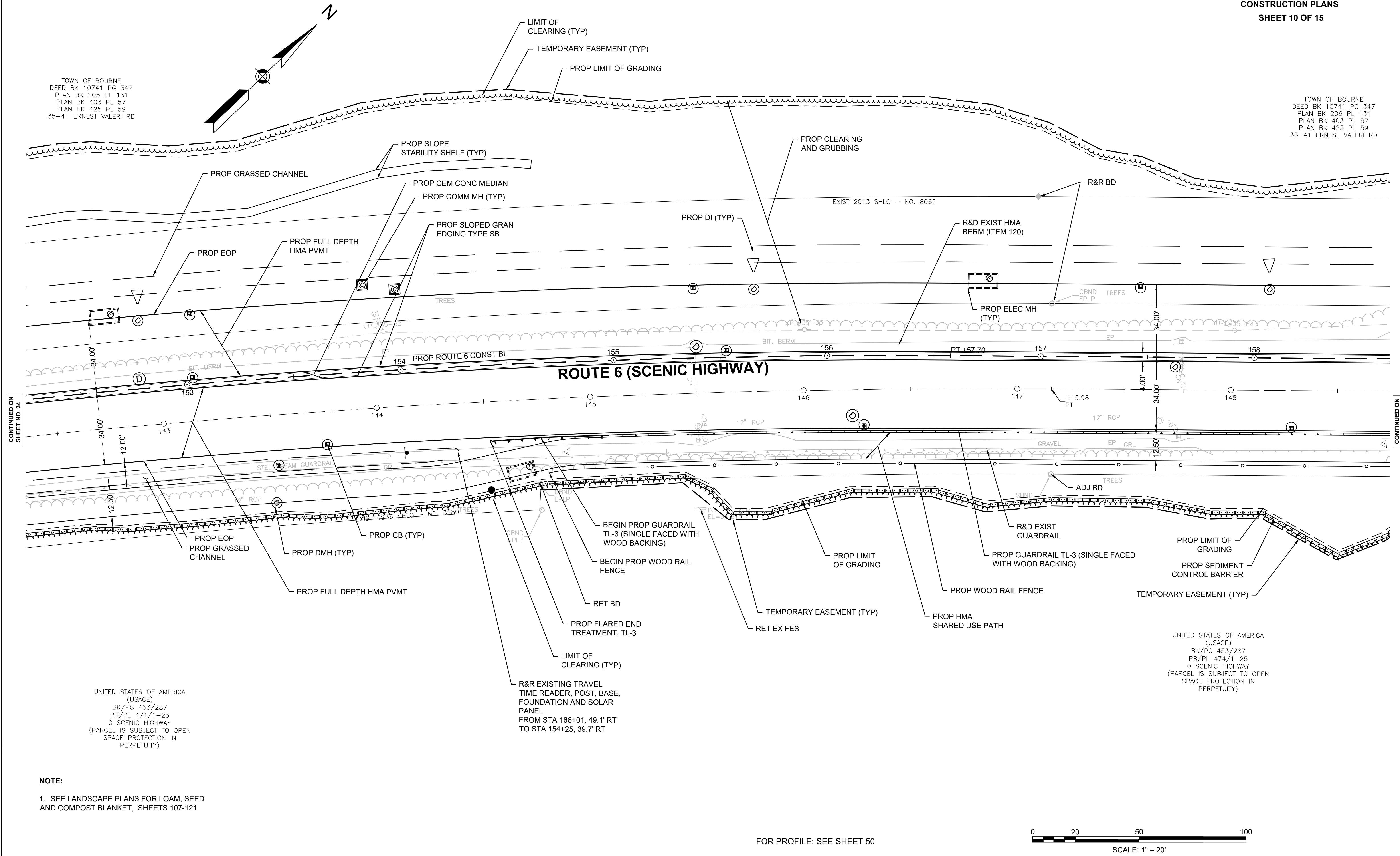
**TRAFFIC SIGNAL CONDUIT**  
 NONE

**WATER SUPPLY ALTERATIONS**  
 SEE SHEET 101

**DRAINAGE DETAILS**  
 SEE SHEET 101

TOWN OF BOURNE  
 DEED BK 10741 PG 347  
 PLAN BK 206 PL 131  
 PLAN BK 403 PL 57  
 PLAN BK 425 PL 59  
 35-41 ERNEST VALERI RD

TOWN OF BOURNE  
 DEED BK 10741 PG 347  
 PLAN BK 206 PL 131  
 PLAN BK 403 PL 57  
 PLAN BK 425 PL 59  
 35-41 ERNEST VALERI RD



CONTINUED ON  
SHEET NO. 34

CONTINUED ON  
SHEET NO. 36

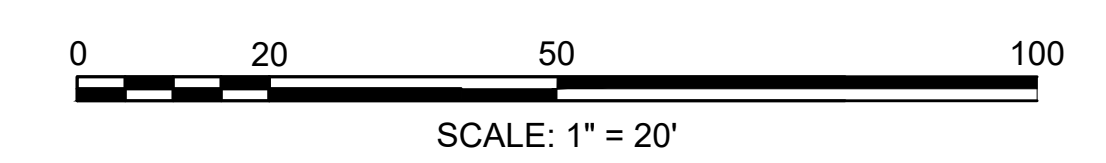
UNITED STATES OF AMERICA  
 (USACE)  
 BK/PG 453/287  
 PB/PL 474/1-25  
 0 SCENIC HIGHWAY  
 (PARCEL IS SUBJECT TO OPEN  
 SPACE PROTECTION IN  
 PERPETUITY)

R&R EXISTING TRAVEL  
 TIME READER, POST, BASE,  
 FOUNDATION AND SOLAR  
 PANEL  
 FROM STA 166+01, 49.1' RT  
 TO STA 154+25, 39.7' RT

UNITED STATES OF AMERICA  
 (USACE)  
 BK/PG 453/287  
 PB/PL 474/1-25  
 0 SCENIC HIGHWAY  
 (PARCEL IS SUBJECT TO OPEN  
 SPACE PROTECTION IN  
 PERPETUITY)

**NOTE:**  
 1. SEE LANDSCAPE PLANS FOR LOAM, SEED  
 AND COMPOST BLANKET, SHEETS 107-121

FOR PROFILE: SEE SHEET 50





HIGHWAY GUARD DETAILS  
 GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING) STA 154+52 RT TO STA 167+41 RT

TRAFFIC SIGNAL CONDUIT  
 NONE

WATER SUPPLY ALTERATIONS  
 SEE SHEET 102

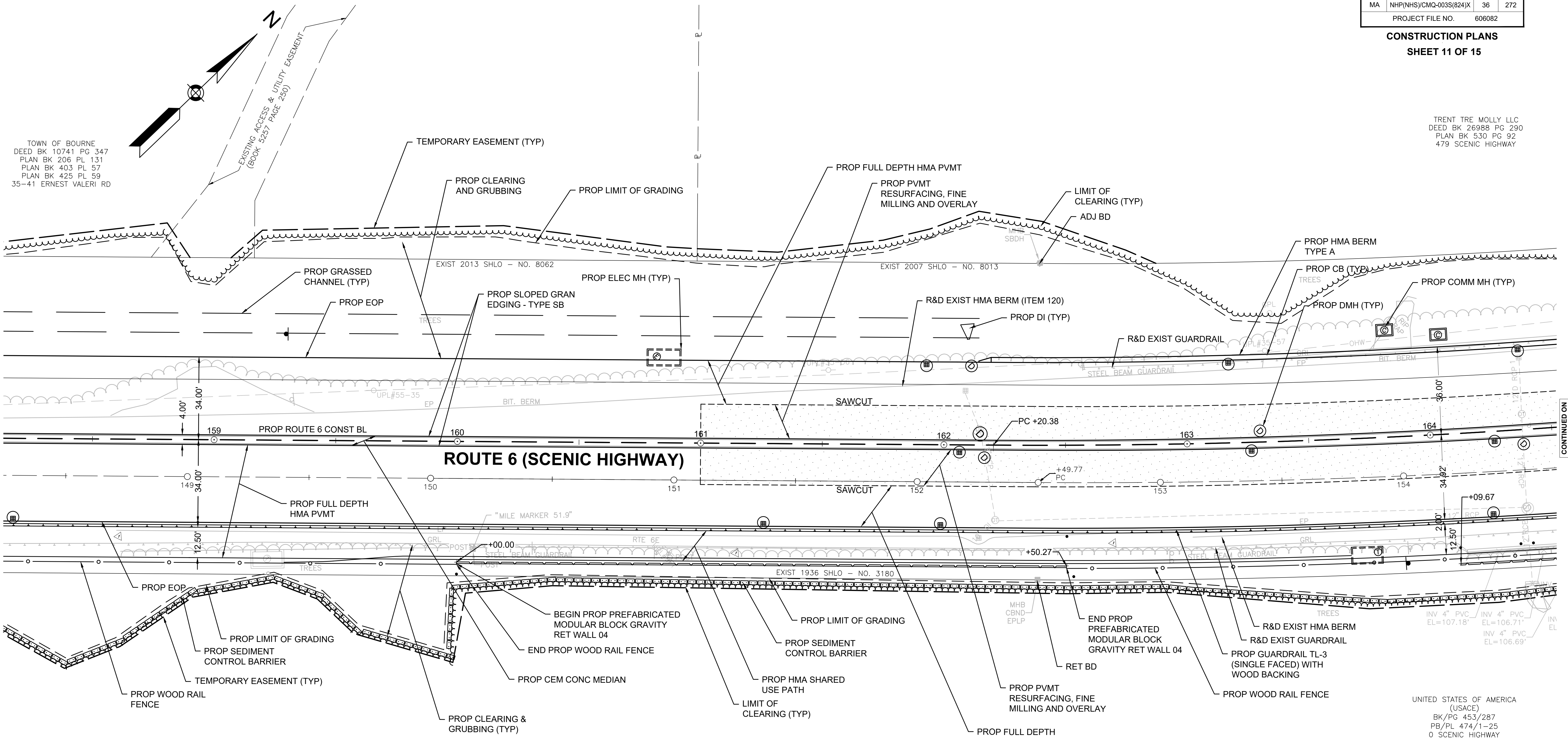
DRAINAGE DETAILS  
 SEE SHEET 102

**BOURNE  
 MEDIAN INSTALLATION ON  
 ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	36	272
PROJECT FILE NO. 606082			

**CONSTRUCTION PLANS  
 SHEET 11 OF 15**

TRENT TRE MOLLY LLC  
 DEED BK 26988 PG 290  
 PLAN BK 530 PG 92  
 479 SCENIC HIGHWAY

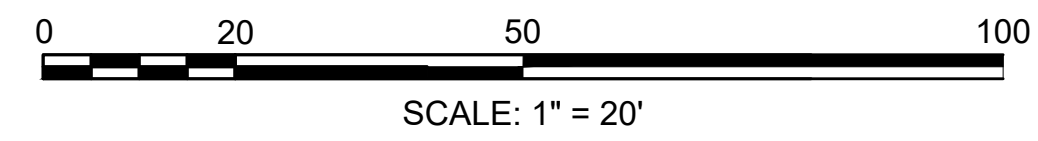


TOWN OF BOURNE  
 DEED BK 10741 PG 347  
 PLAN BK 206 PL 131  
 PLAN BK 403 PL 57  
 PLAN BK 425 PL 59  
 35-41 ERNEST VALERI RD

UNITED STATES OF AMERICA  
 (USACE)  
 BK/PG 453/287  
 PB/PL 474/1-25  
 0 SCENIC HIGHWAY  
 (PARCEL IS SUBJECT TO OPEN  
 SPACE PROTECTION IN  
 PERPETUITY)

**NOTE:**  
 1. SEE LANDSCAPE PLANS FOR LOAM, SEED AND  
 COMPOST BLANKET, SHEETS 107-121

FOR PROFILE: SEE SHEET 51



CONTINUED ON  
SHEET NO. 35

CONTINUED ON  
SHEET NO. 37

606082\_H15(CONSTRUCTION).DWG P101121 on 17-Mar-2025 9:58 AM

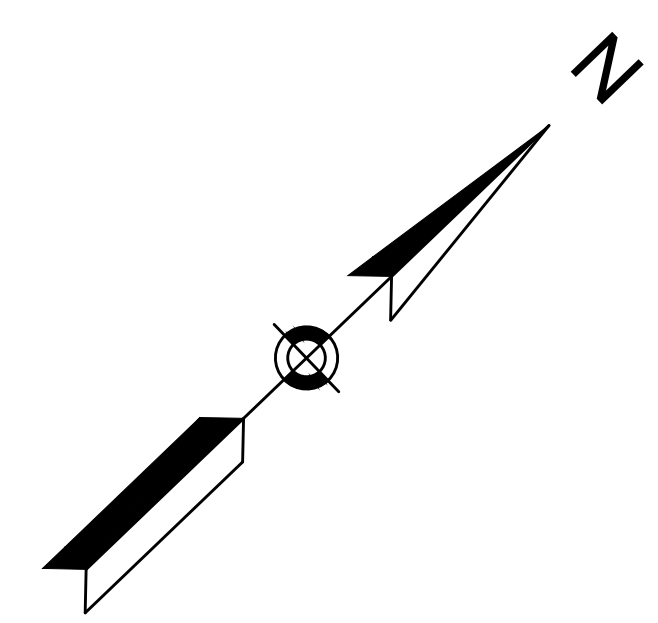
CAPE COD AGGREGATES CORP.  
PLAN BK 272 PG 86  
DEED BK 13392 PG 246  
O ERNEST VALERI ROAD

**HIGHWAY GUARD DETAILS**  
GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING) STA 154+52 RT TO STA 167+41 RT  
TRAILING ANCHORAGE, TL-3 STA 167+51 RT

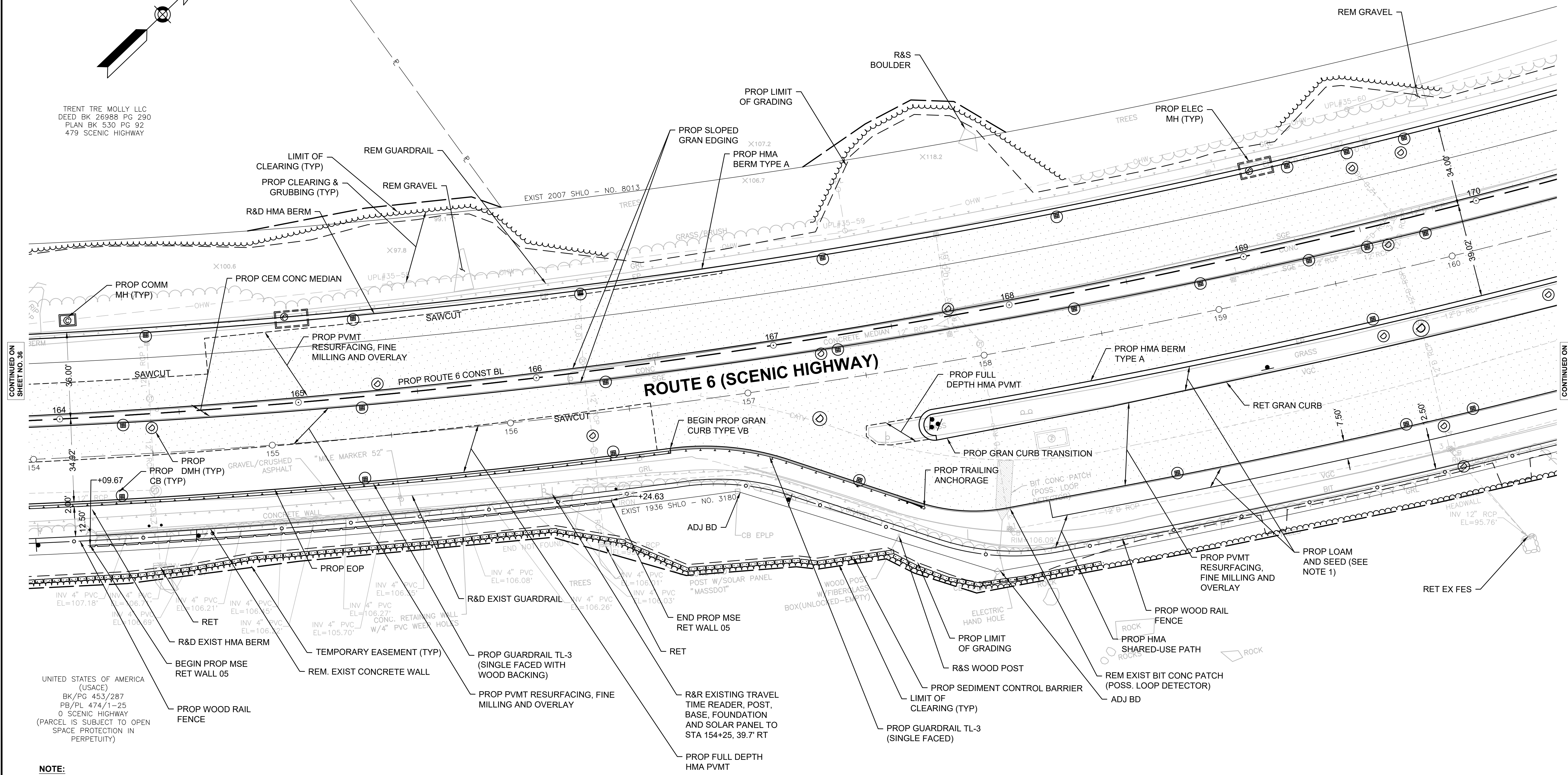
**TRAFFIC SIGNAL CONDUIT**  
NONE

**WATER SUPPLY ALTERATIONS**  
SEE SHEET 103

**DRAINAGE DETAILS**  
SEE SHEET 103



TRENT TRE MOLLY LLC  
DEED BK 26988 PG 290  
PLAN BK 530 PG 92  
479 SCENIC HIGHWAY



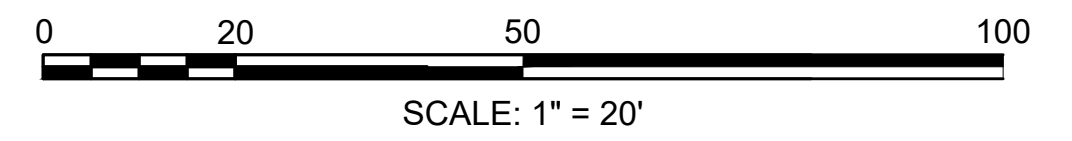
CONTINUED ON  
SHEET NO. 36

CONTINUED ON  
SHEET NO. 38

UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
O SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN  
SPACE PROTECTION IN  
PERPETUITY)

**NOTE:**  
1. SEE LANDSCAPE PLANS FOR LOAM, SEED AND  
COMPOST BLANKET, SHEETS 107-121

FOR PROFILE: SEE SHEET 52





HIGHWAY GUARD DETAILS

GUARDRAIL TANGENT END TREATMENT, TL-3  
GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING)

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 104

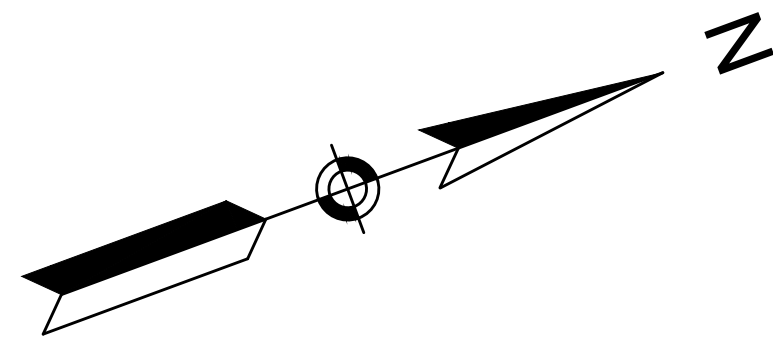
DRAINAGE DETAILS

SEE SHEET 104

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

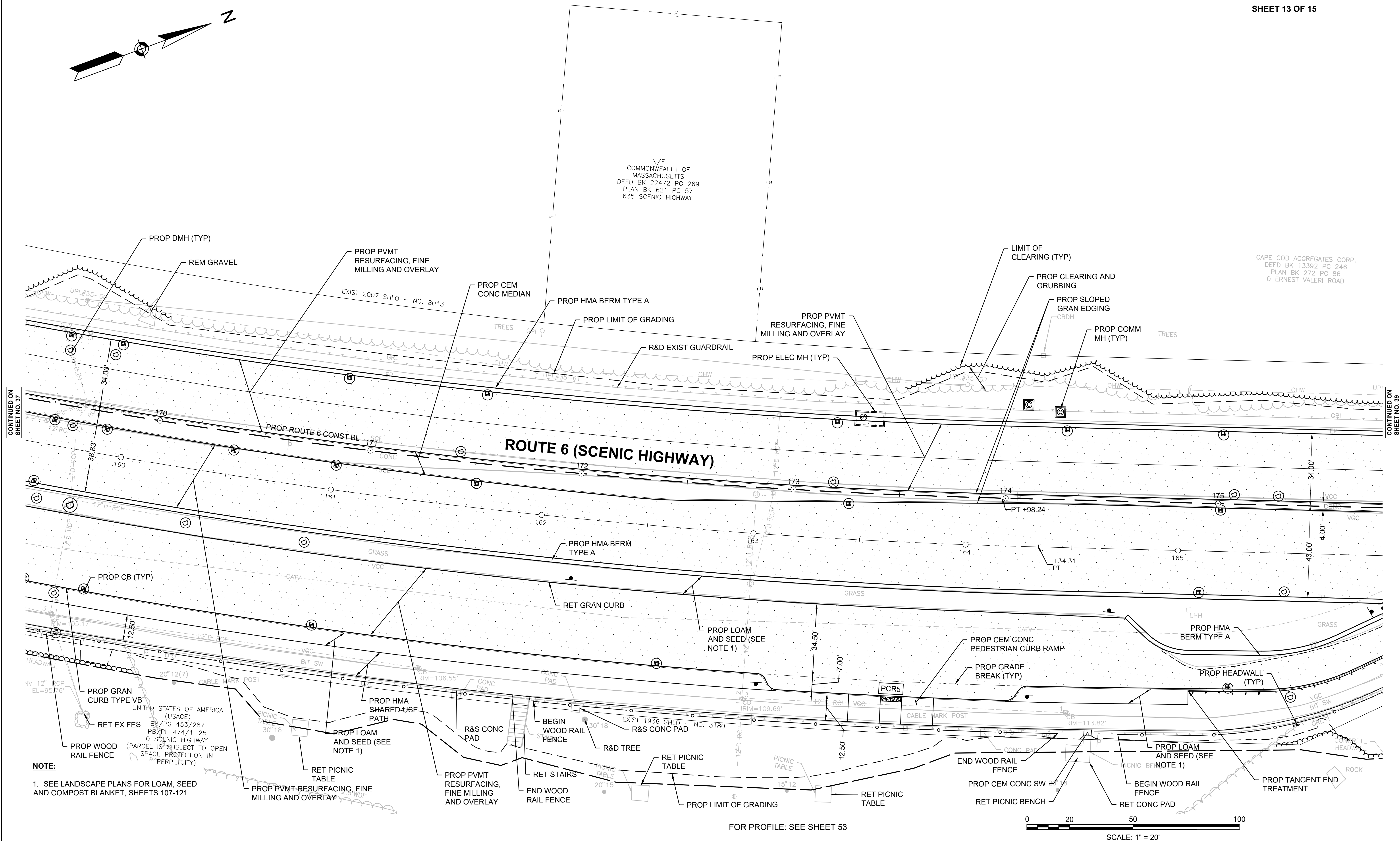
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	38	272
PROJECT FILE NO.		606082	

**CONSTRUCTION PLANS  
SHEET 13 OF 15**



N/F  
COMMONWEALTH OF  
MASSACHUSETTS  
DEED BK 22472 PG 269  
PLAN BK 621 PG 57  
635 SCENIC HIGHWAY

CAPE COD AGGREGATES CORP.  
DEED BK 13392 PG 246  
PLAN BK 272 PG 86  
O ERNEST VALERI ROAD

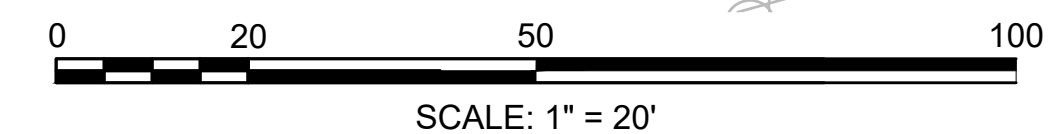


CONTINUED ON  
SHEET NO. 37

CONTINUED ON  
SHEET NO. 39

**NOTE:**  
1. SEE LANDSCAPE PLANS FOR LOAM, SEED  
AND COMPOST BLANKET, SHEETS 107-121

FOR PROFILE: SEE SHEET 53



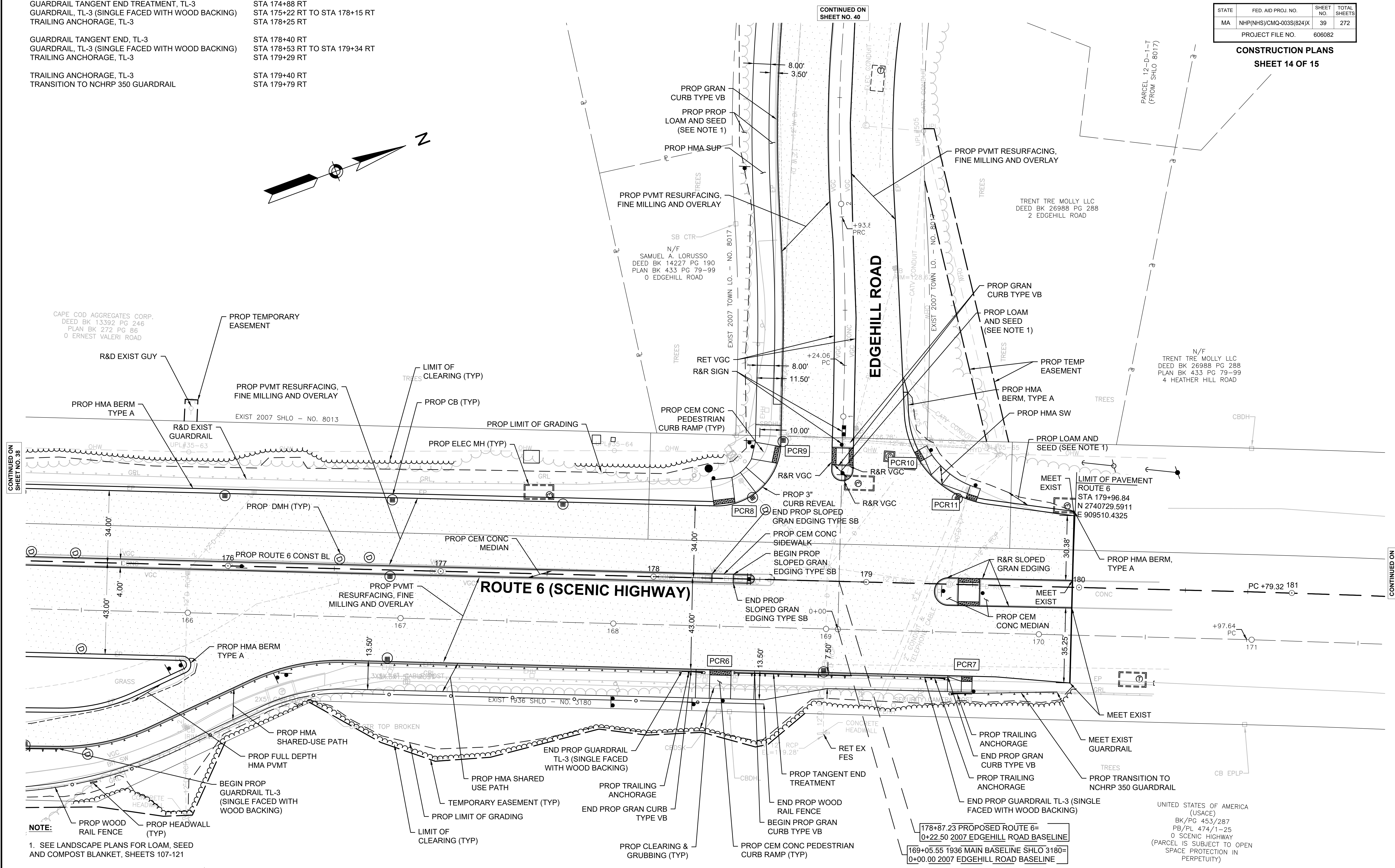
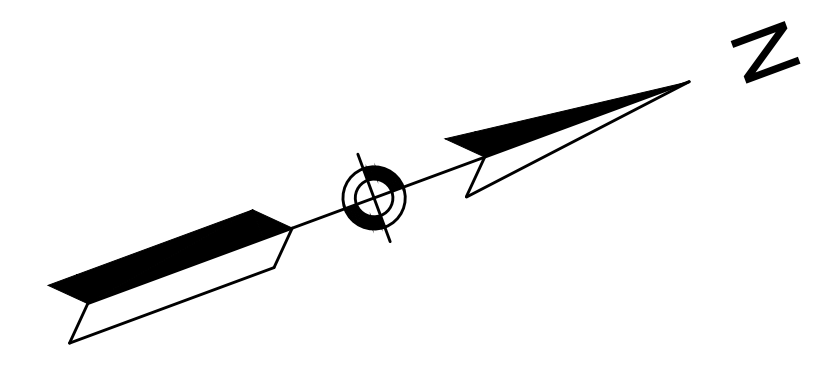
**HIGHWAY GUARD DETAILS**

GUARDRAIL TANGENT END TREATMENT, TL-3	STA 174+88 RT
GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING)	STA 175+22 RT TO STA 178+15 RT
TRAILING ANCHORAGE, TL-3	STA 178+25 RT
GUARDRAIL TANGENT END, TL-3	STA 178+40 RT
GUARDRAIL, TL-3 (SINGLE FACED WITH WOOD BACKING)	STA 178+53 RT TO STA 179+34 RT
TRAILING ANCHORAGE, TL-3	STA 179+29 RT
TRAILING ANCHORAGE, TL-3	STA 179+40 RT
TRANSITION TO NCHRP 350 GUARDRAIL	STA 179+79 RT

**TRAFFIC SIGNAL CONDUIT**  
SEE SHEET 143

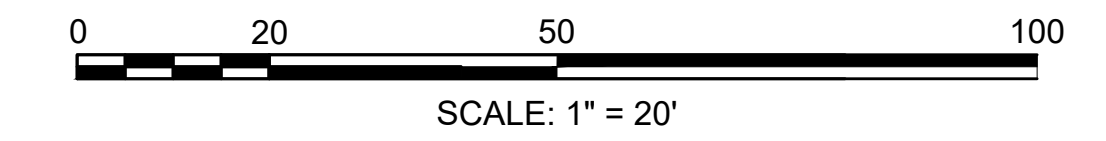
**WATER SUPPLY ALTERATIONS**  
SEE SHEET 105

**DRAINAGE DETAILS**  
SEE SHEET 105



**NOTE:**  
1. SEE LANDSCAPE PLANS FOR LOAM, SEED AND COMPOST BLANKET, SHEETS 107-121

FOR PROFILE: SEE SHEET 54



CONTINUED ON SHEET NO. 38

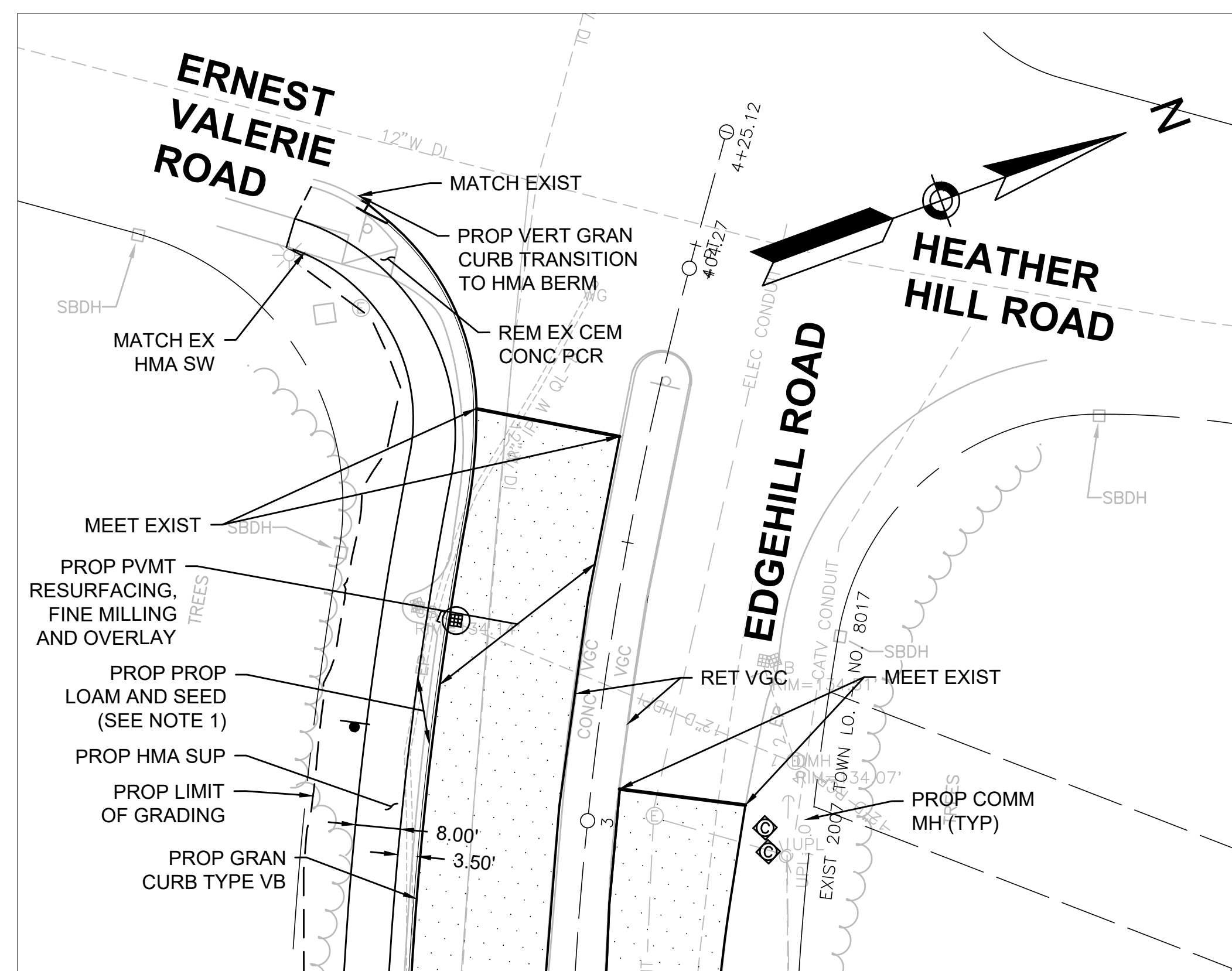
CONTINUED ON SHEET NO. 40



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	40	272
PROJECT FILE NO.		606082	

**CONSTRUCTION PLANS  
SHEET 15 OF 15**

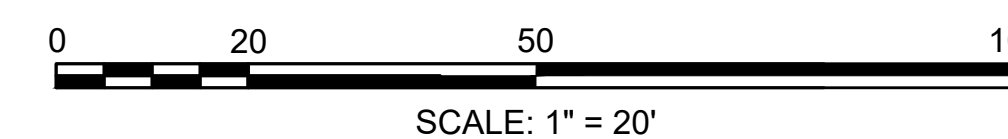
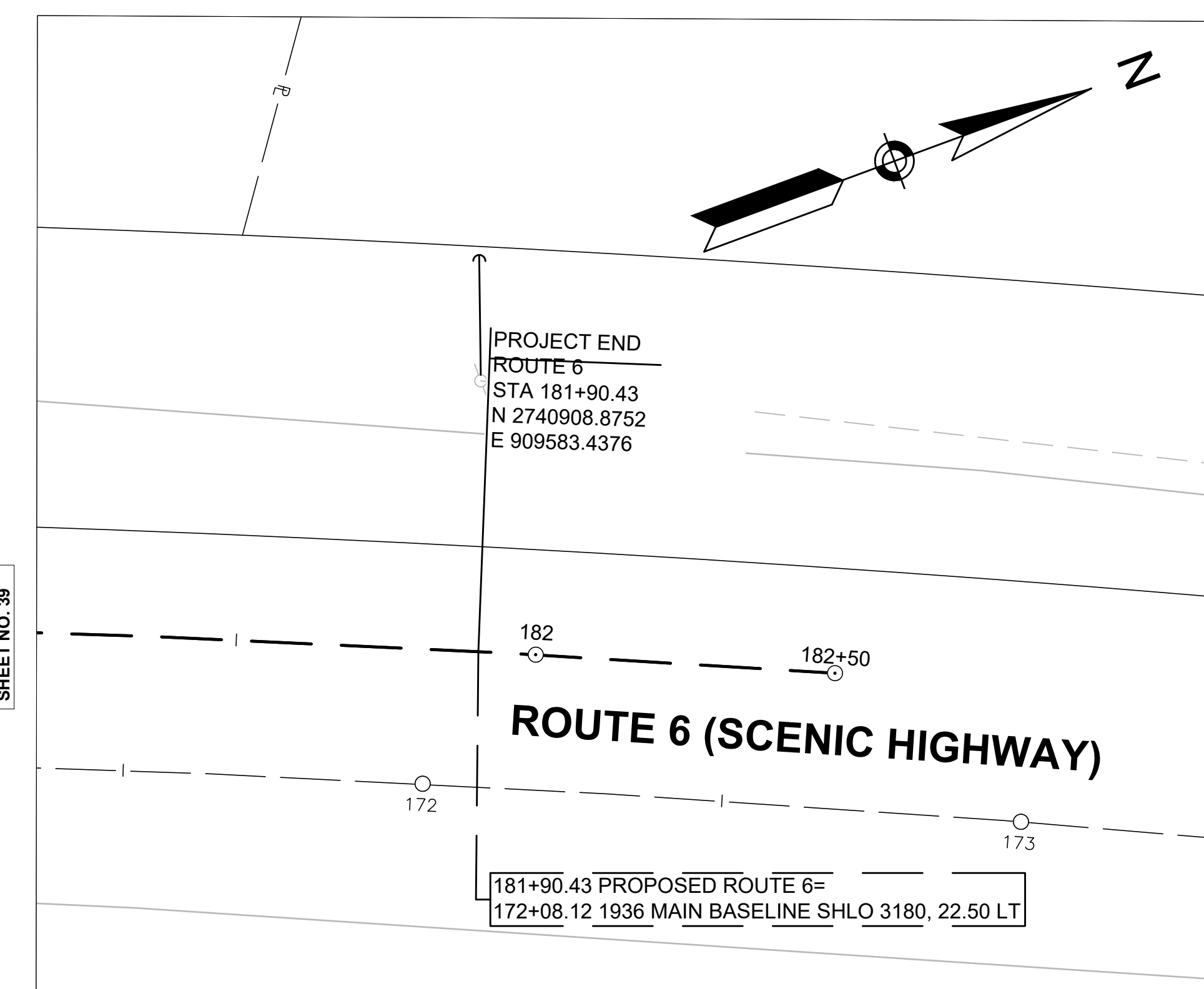


**NOTE:**

1. SEE LANDSCAPE PLANS FOR LOAM, SEED AND COMPOST BLANKET, SHEETS 107-121

CONTINUED ON SHEET NO. 39

CONTINUED ON SHEET NO. 39



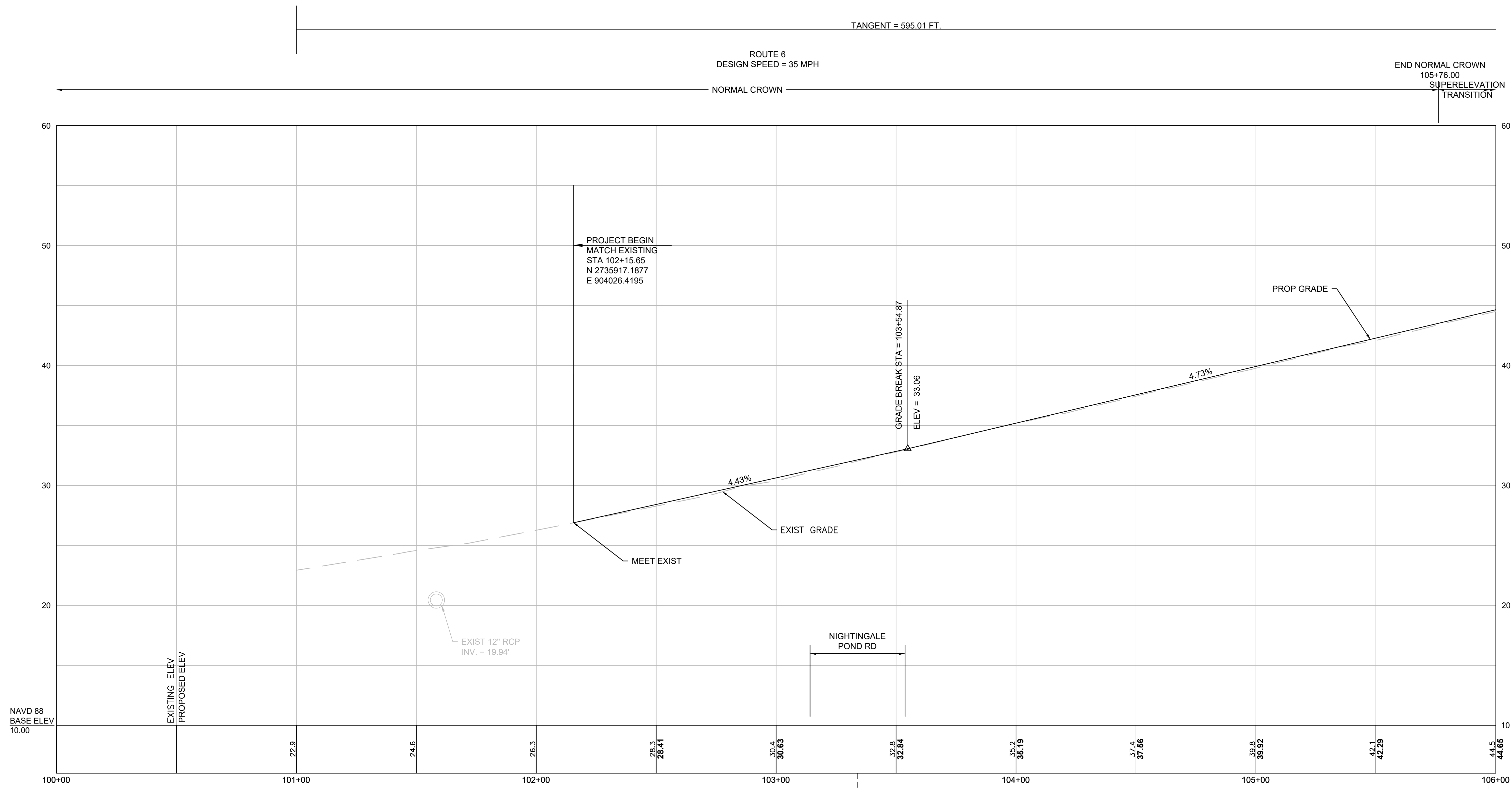
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	41	272
PROJECT FILE NO.		606082	

**PROFILES  
SHEET 1 OF 14**

606082\_HDS(PROFILE).DWG Plotted on 17-Mar-2025 10:00 AM

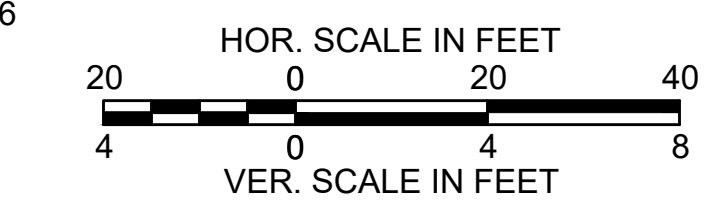
CONTINUED ON  
SHEET NO. 42



STA 103+33.94 PROPOSED ROUTE 6 (SCENIC HIGHWAY) =  
STA 200+00.00 NIGHTINGALE POND RD

BENCHMARK: TBM-3J  
Elevation = 42.51'  
Sta. 105+96.78, 23.55' LT

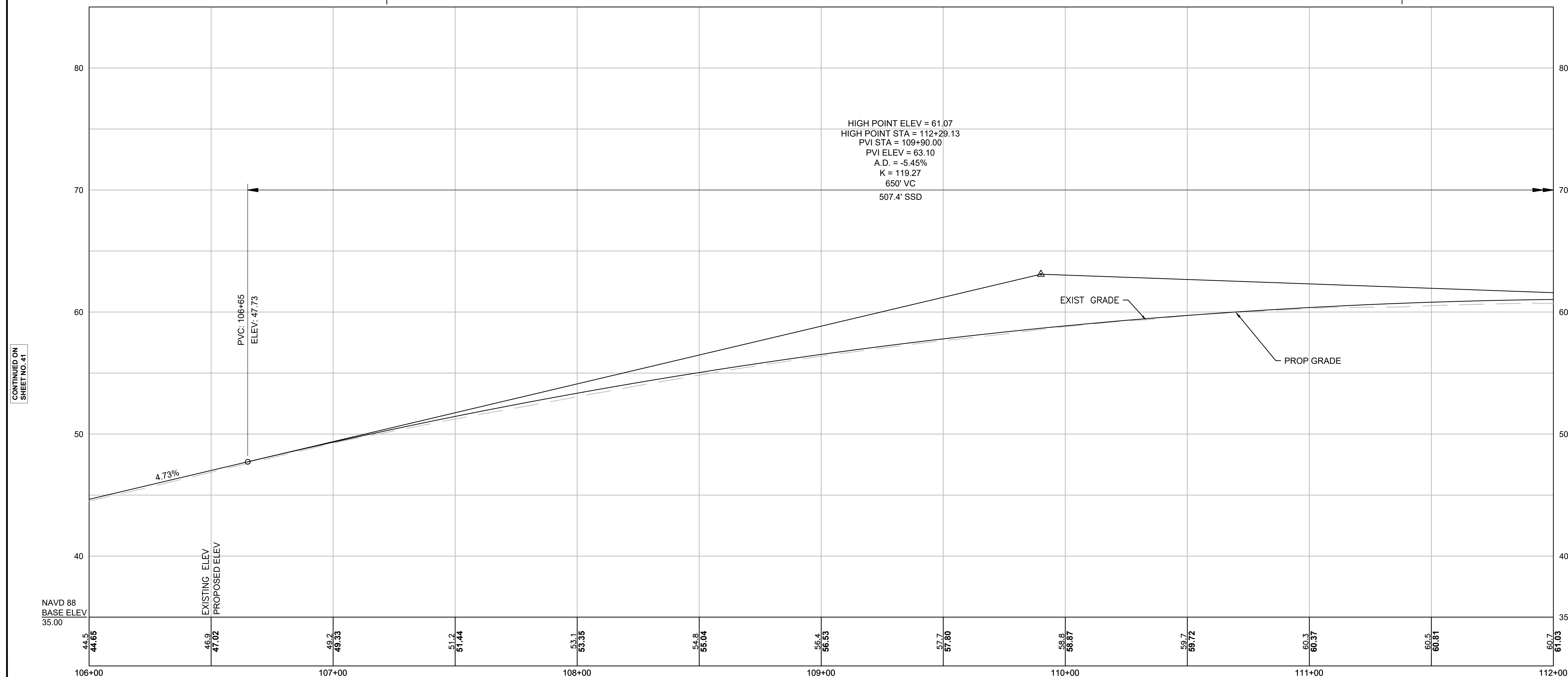
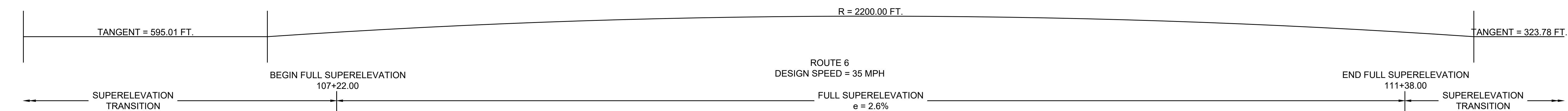
FOR CONSTRUCTION PLANS:  
SEE SHEET 26



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	42	272
PROJECT FILE NO.		606082	

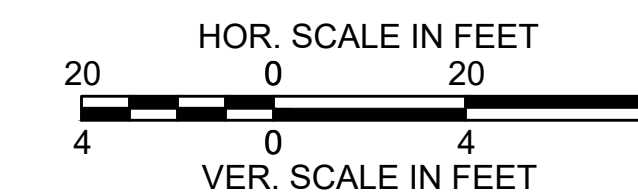
**PROFILES  
SHEET 2 OF 14**



CONTINUED ON  
SHEET NO. 41

CONTINUED ON  
SHEET NO. 43

FOR CONSTRUCTION PLANS:  
SEE SHEET 26&27

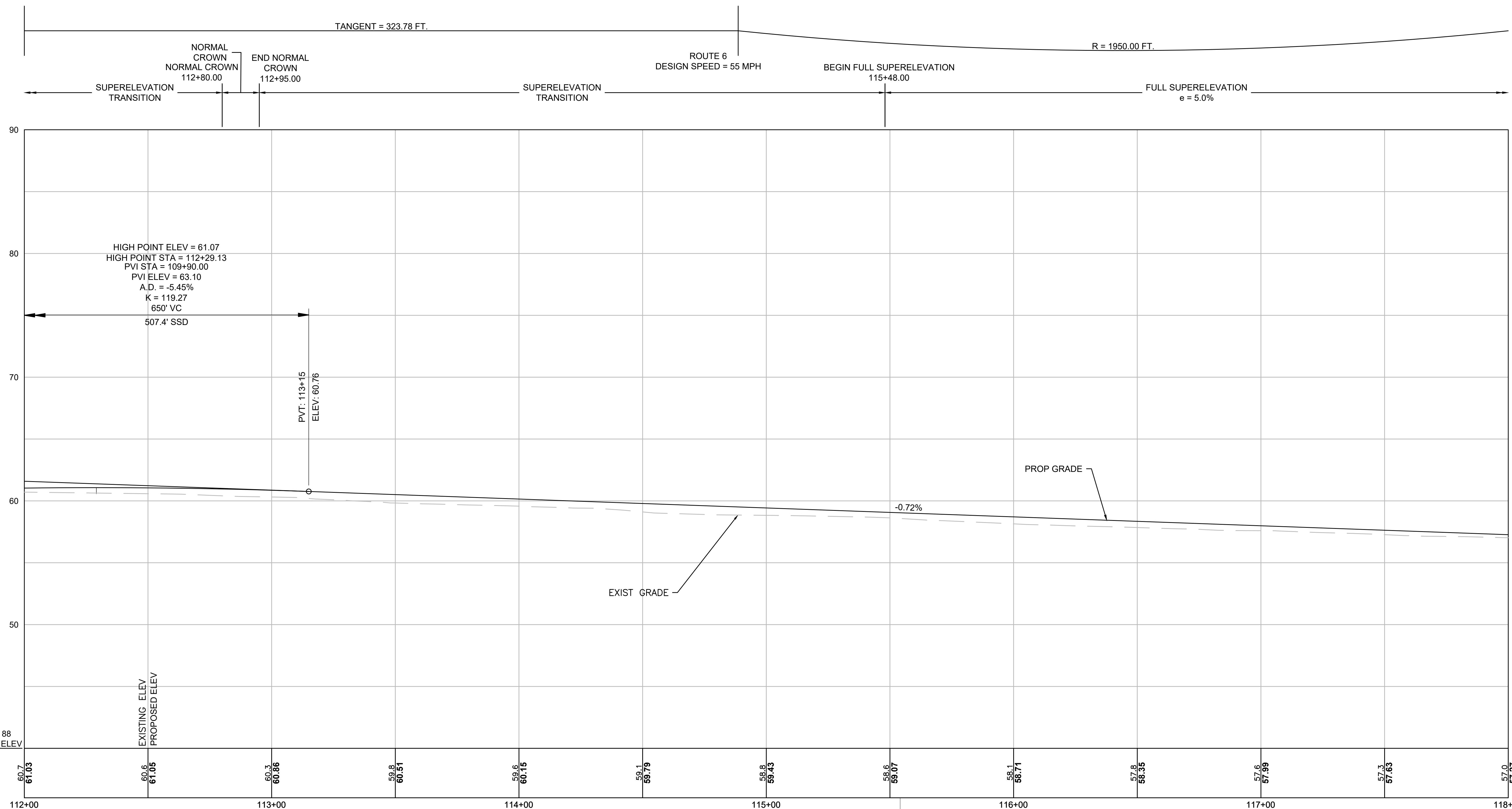




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	43	272
PROJECT FILE NO. 606082			

**PROFILES  
SHEET 3 OF 14**

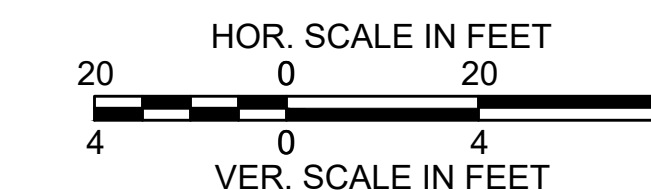


CONTINUED ON  
SHEET NO. 42

CONTINUED ON  
SHEET NO. 44

BENCHMARK: TBM-3M  
Elevation = 60.99'  
Sta. 115+54.12, 14.23' LT

FOR CONSTRUCTION PLANS:  
SEE SHEET 28

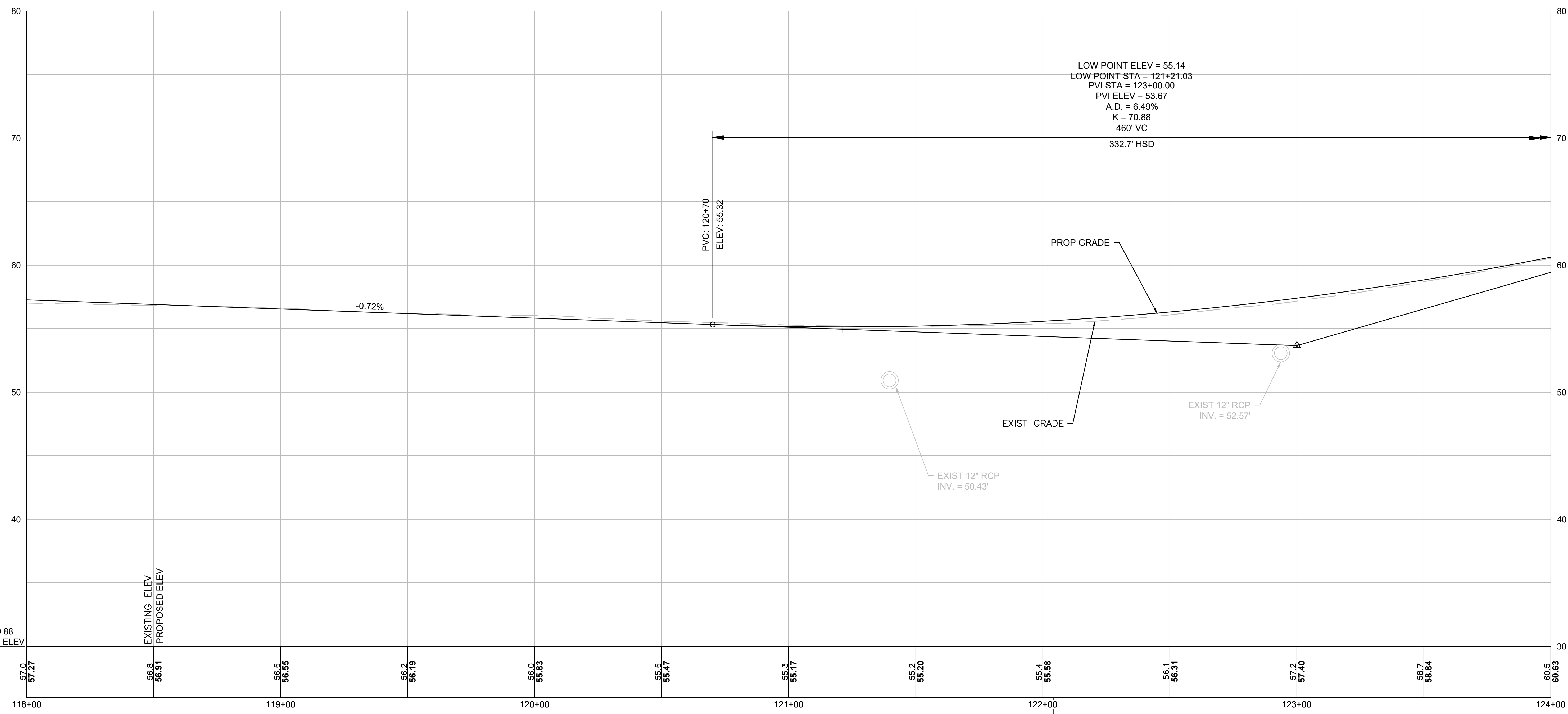


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	44	272
PROJECT FILE NO.		606082	

**PROFILES  
SHEET 4 OF 14**

R = 1950.00 FT.  
ROUTE 6  
DESIGN SPEED = 55 MPH  
FULL SUPERELEVATION  
e = 5.0%

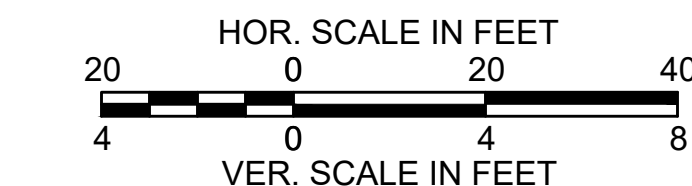


CONTINUED ON  
SHEET NO. 43

CONTINUED ON  
SHEET NO. 45

BENCHMARK: TBM-3N  
Elevation = 56.68'  
Sta. 122+04.15, 17.43' LT

FOR CONSTRUCTION PLANS:  
SEE SHEET 29

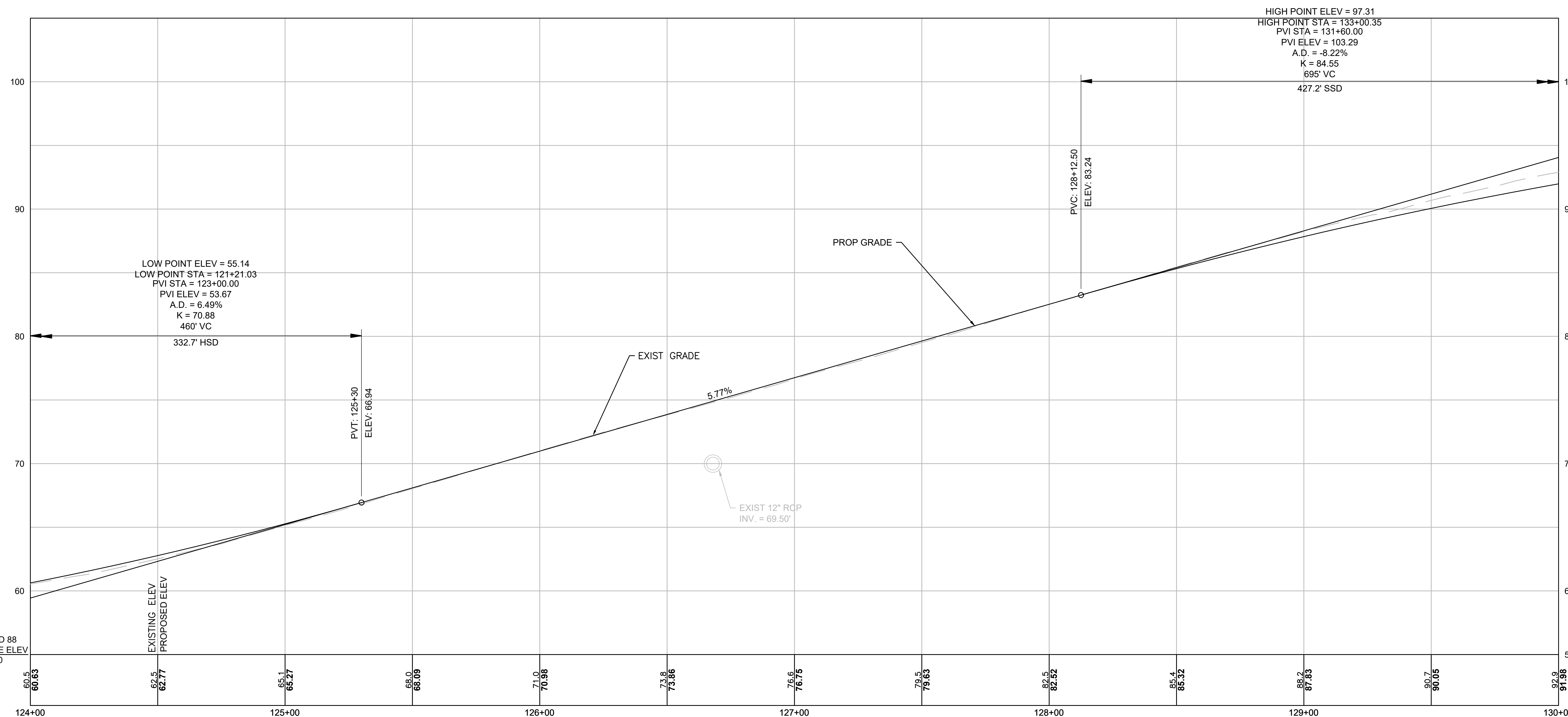


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	45	272
PROJECT FILE NO. 606082			

**PROFILES  
SHEET 5 OF 14**

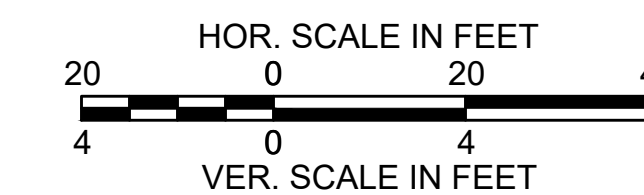
R = 1950.00 FT.  
ROUTE 6  
DESIGN SPEED = 55 MPH  
FULL SUPERELEVATION  
e = 5.0%



CONTINUED ON  
SHEET NO. 44

CONTINUED ON  
SHEET NO. 46

FOR CONSTRUCTION PLANS:  
SEE SHEET 30

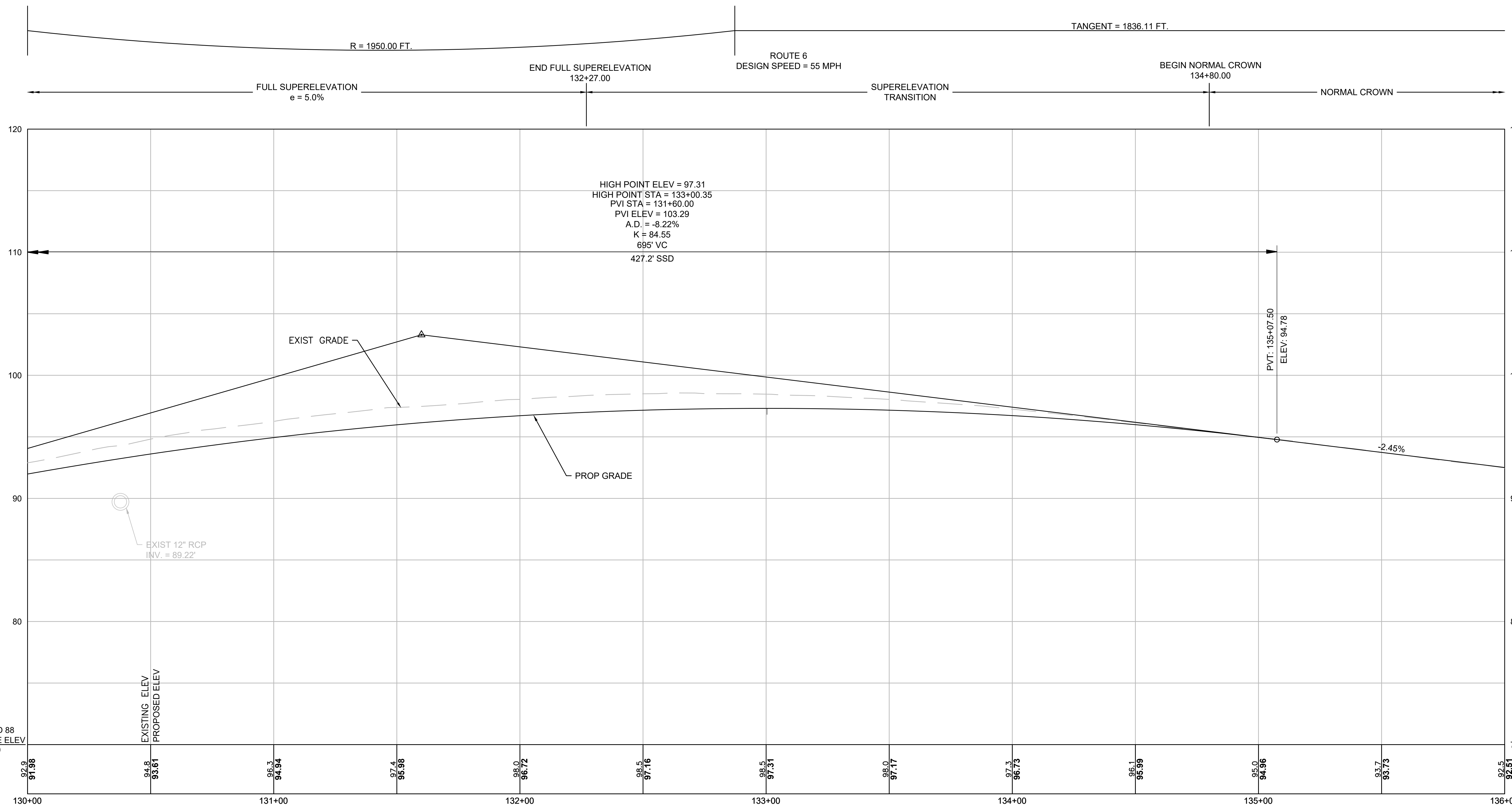




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	46	272
PROJECT FILE NO. 606082			

**PROFILES  
SHEET 6 OF 14**

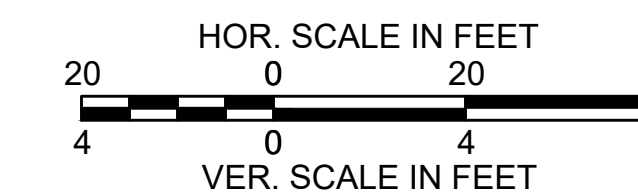


CONTINUED ON  
SHEET NO. 45

CONTINUED ON  
SHEET NO. 47

NAVD 88  
BASE ELEV  
70.00

FOR CONSTRUCTION PLANS:  
SEE SHEET 31



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

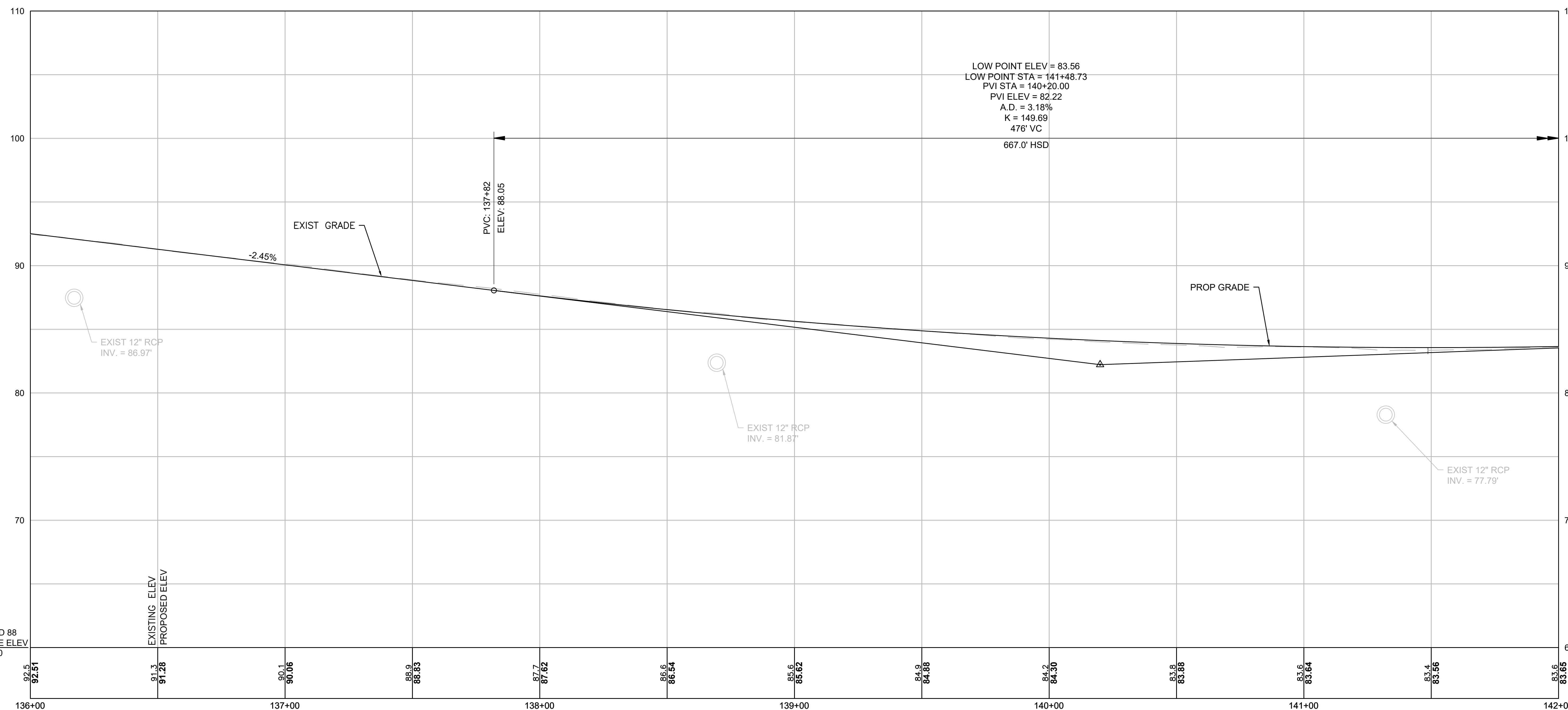
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	47	272
PROJECT FILE NO. 606082			

**PROFILES  
SHEET 7 OF 14**

TANGENT = 1836.11 FT.

ROUTE 6  
DESIGN SPEED = 55 MPH

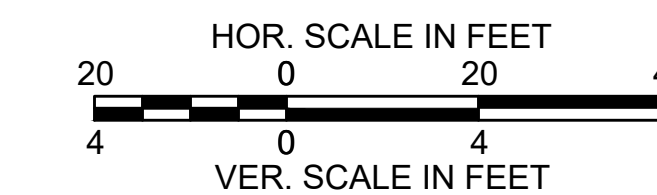
NORMAL CROWN



CONTINUED ON  
SHEET NO. 46

CONTINUED ON  
SHEET NO. 48

FOR CONSTRUCTION PLANS:  
SEE SHEET 32



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

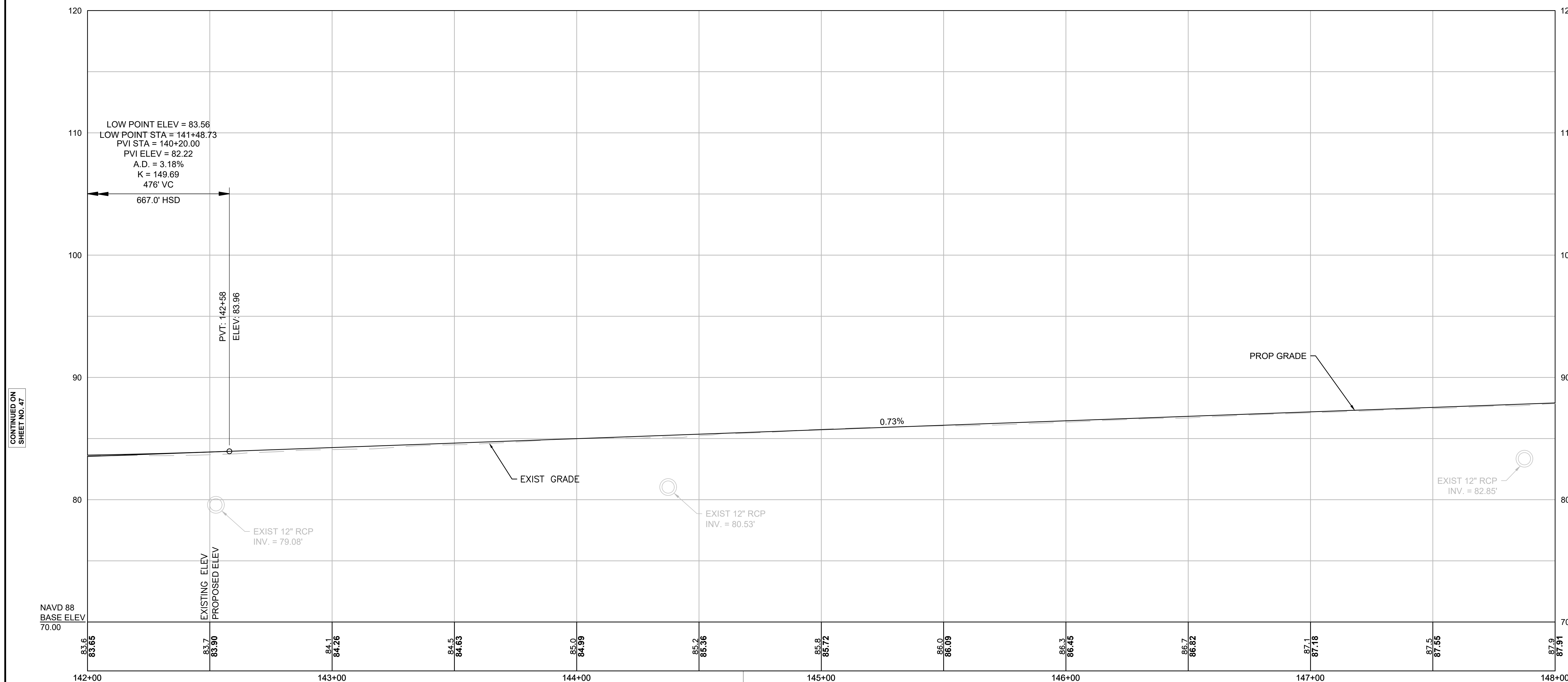
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)CMQ-003S(824)X	48	272
PROJECT FILE NO.		606082	

**PROFILES  
SHEET 8 OF 14**

TANGENT = 1836.11 FT.

ROUTE 6  
DESIGN SPEED = 55 MPH

NORMAL CROWN

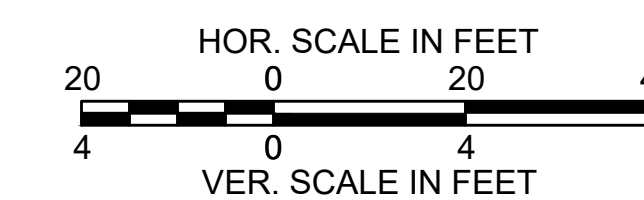


CONTINUED ON  
SHEET NO. 47

CONTINUED ON  
SHEET NO. 49

BENCHMARK: 30  
Elevation = 89.09'  
Sta. 144+68.10, 40.51' LT

FOR CONSTRUCTION PLANS:  
SEE SHEET 32&33

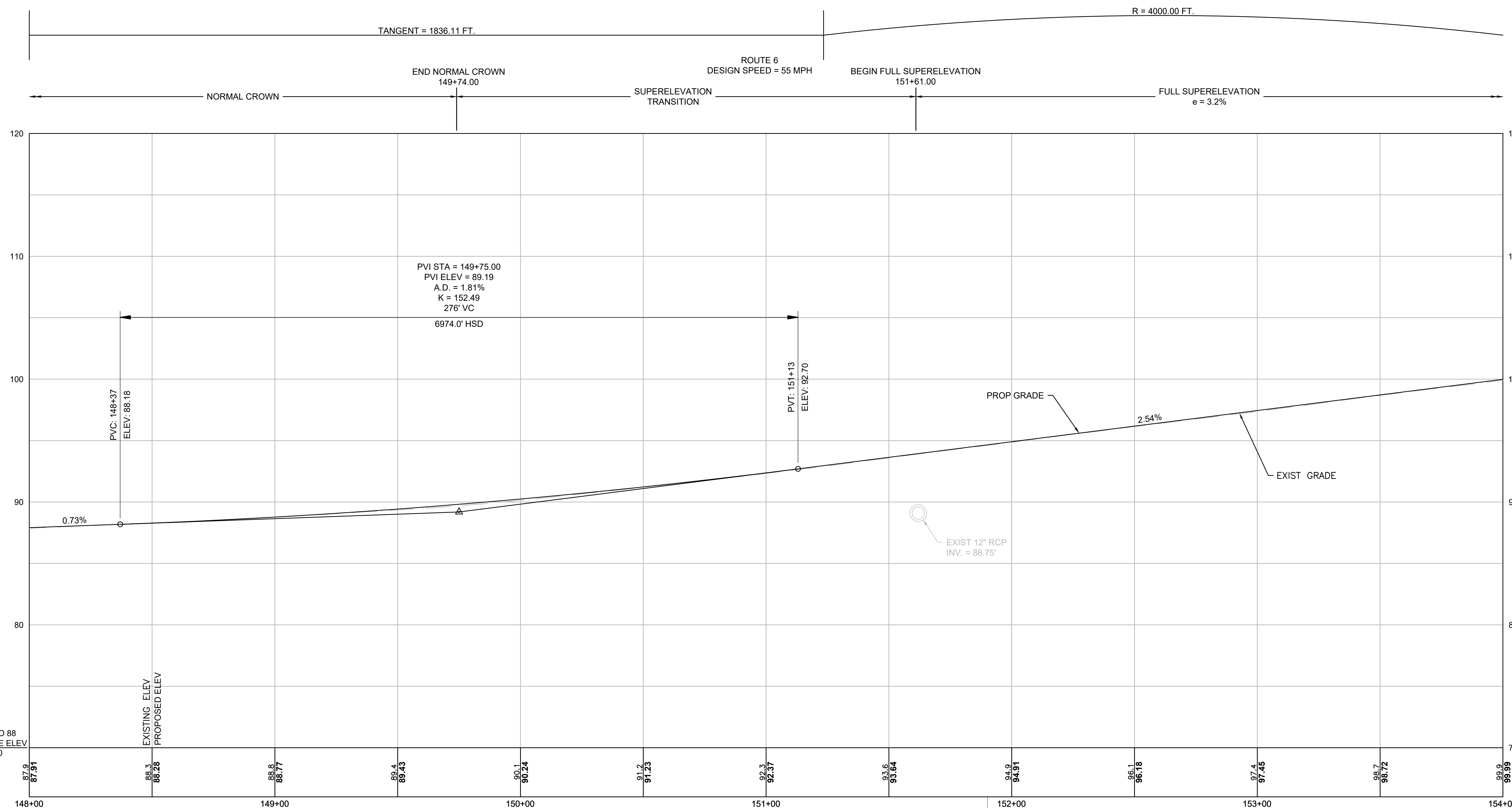




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	49	272
PROJECT FILE NO.		606082	

**PROFILES  
SHEET 9 OF 14**



CONTINUED ON  
SHEET NO. 48

CONTINUED ON  
SHEET NO. 50

NAVD 88  
BASE ELEV  
70.00

87.9  
87.91

88.3  
88.28

88.6  
88.77

89.4  
89.43

90.1  
90.24

91.2  
91.23

92.3  
92.37

93.6  
93.64

94.9  
94.91

96.1  
96.18

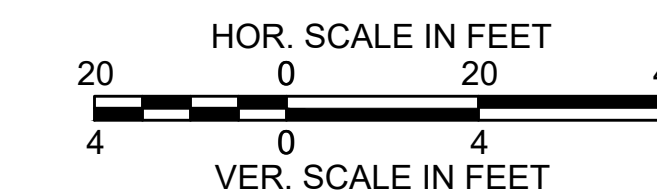
97.4  
97.45

98.7  
98.72

99.9  
99.99

BENCHMARK: 5 SET  
Elevation = 97.31'  
Sta. 151+90.12, 9.98' LT

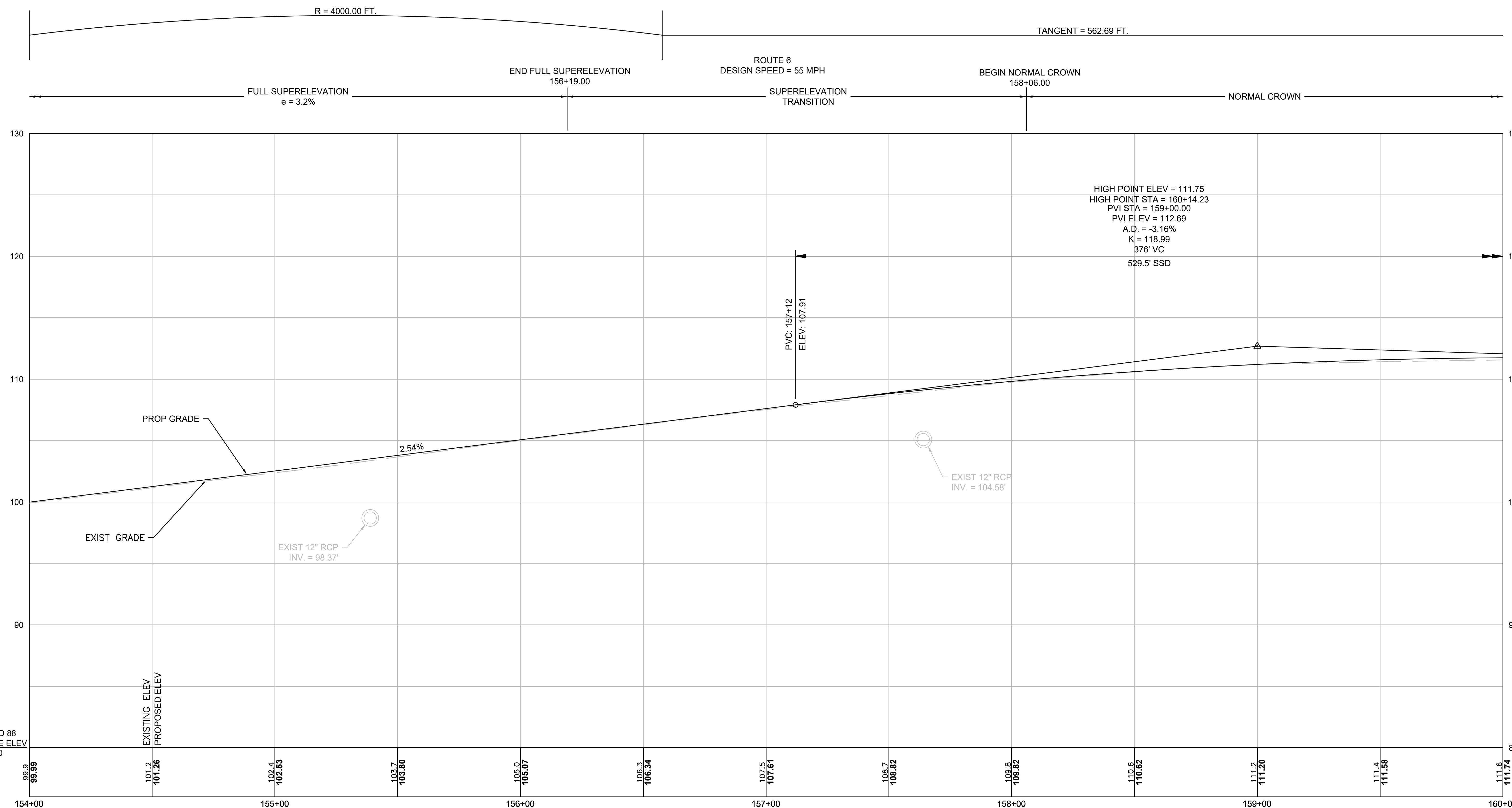
FOR CONSTRUCTION PLANS:  
SEE SHEETS 34&35



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	50	272
PROJECT FILE NO.		606082	

**PROFILES  
SHEET 10 OF 14**

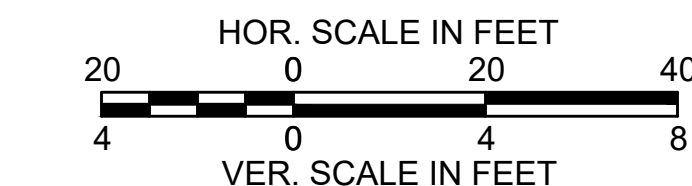


CONTINUED ON  
SHEET NO. 49

CONTINUED ON  
SHEET NO. 51

NAVD 88  
BASE ELEV  
80.00

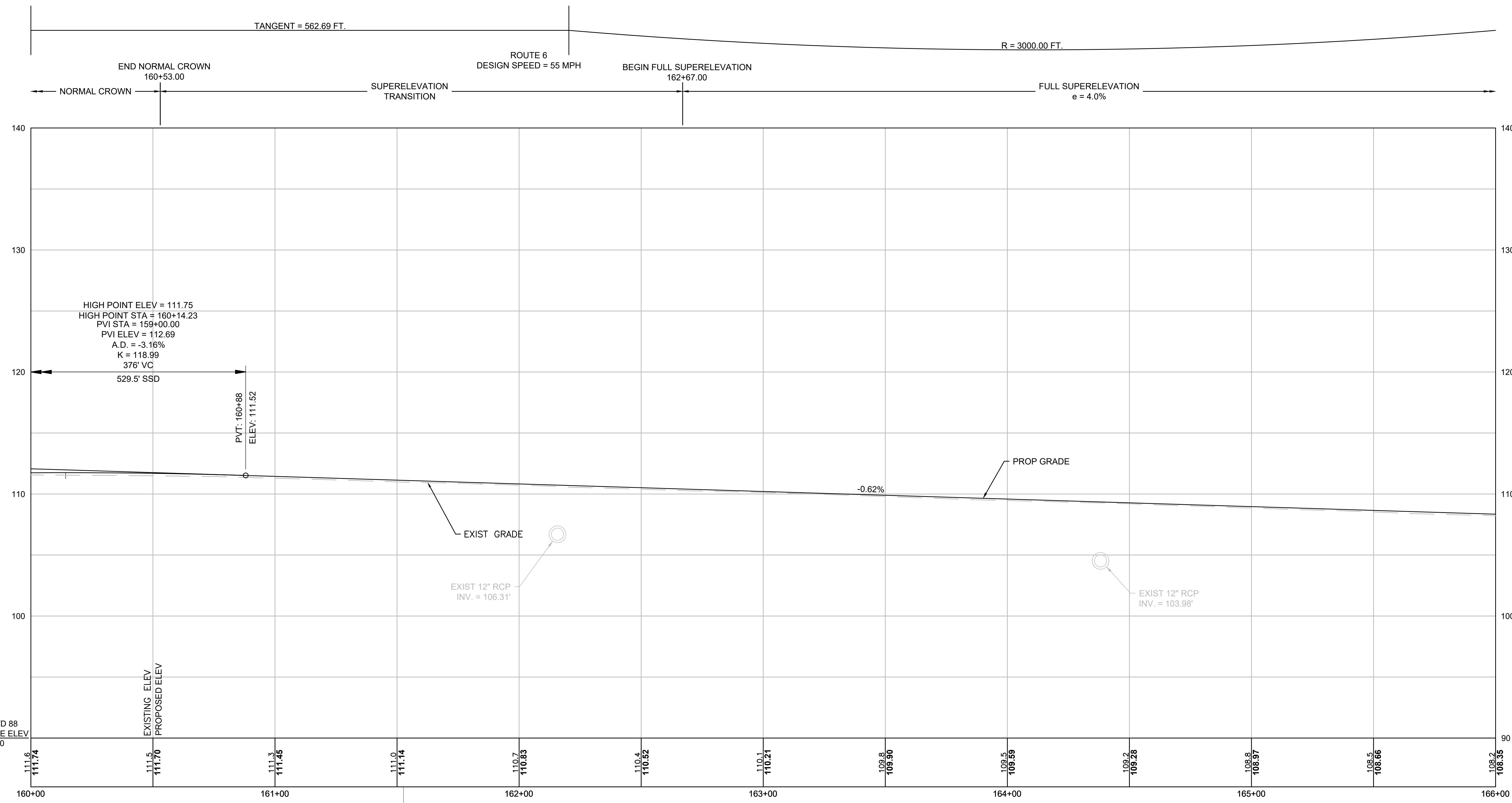
FOR CONSTRUCTION PLANS:  
SEE SHEETS 35&36



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	51	272
PROJECT FILE NO.		606082	

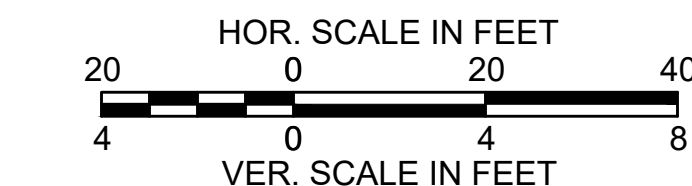
**PROFILES  
SHEET 11 OF 14**



CONTINUED ON  
SHEET NO. 50

CONTINUED ON  
SHEET NO. 52

FOR CONSTRUCTION PLANS:  
SEE SHEET 36&37



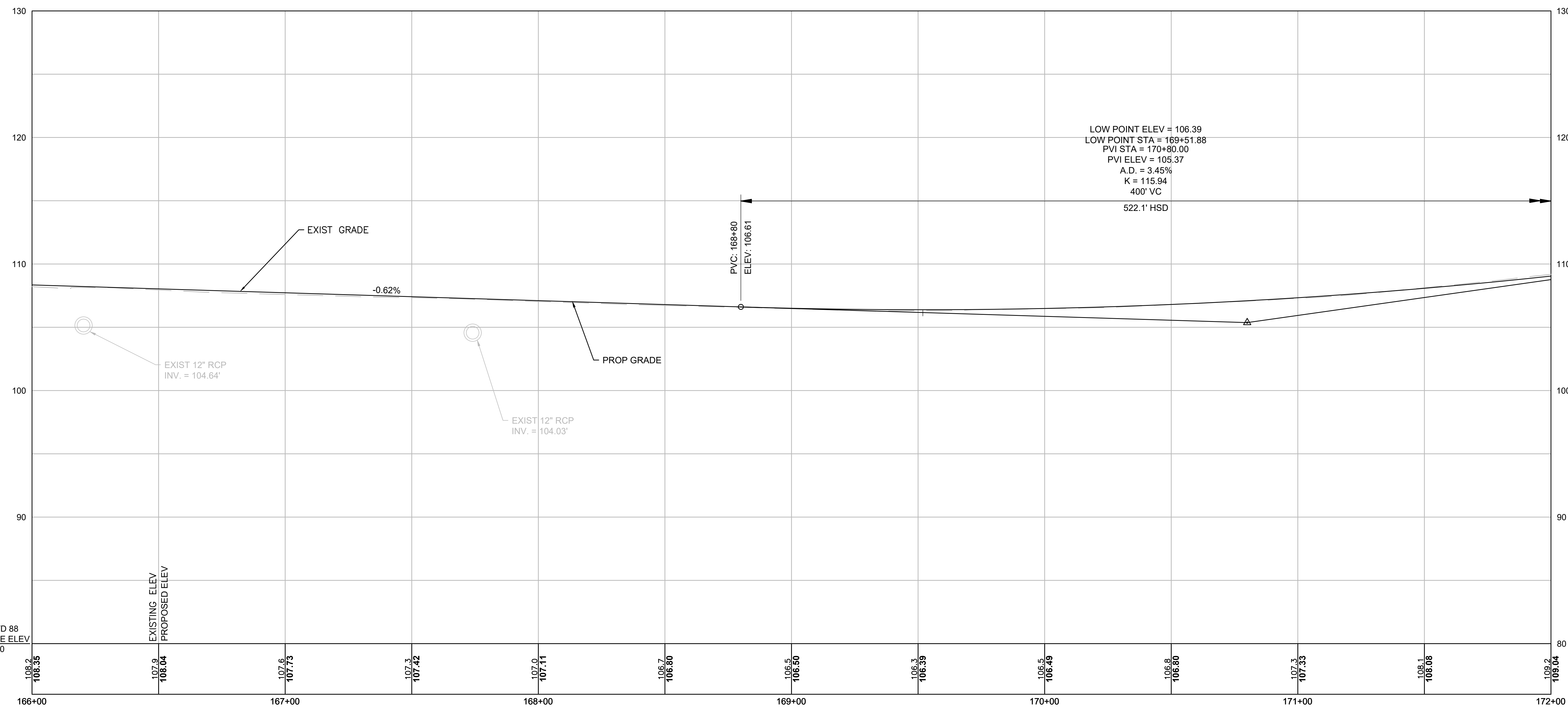


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	52	272
PROJECT FILE NO.		606082	

**PROFILES  
SHEET 12 OF 14**

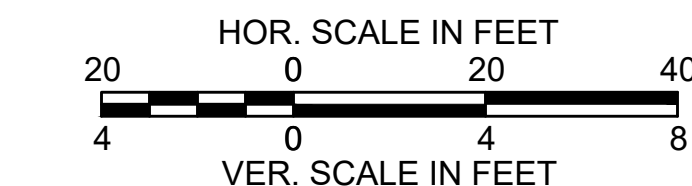
TANGENT = 1177.86 FT.  
ROUTE 6  
DESIGN SPEED = 55 MPH  
FULL SUPERELEVATION  
e = 4.0%



CONTINUED ON  
SHEET NO. 51

CONTINUED ON  
SHEET NO. 53

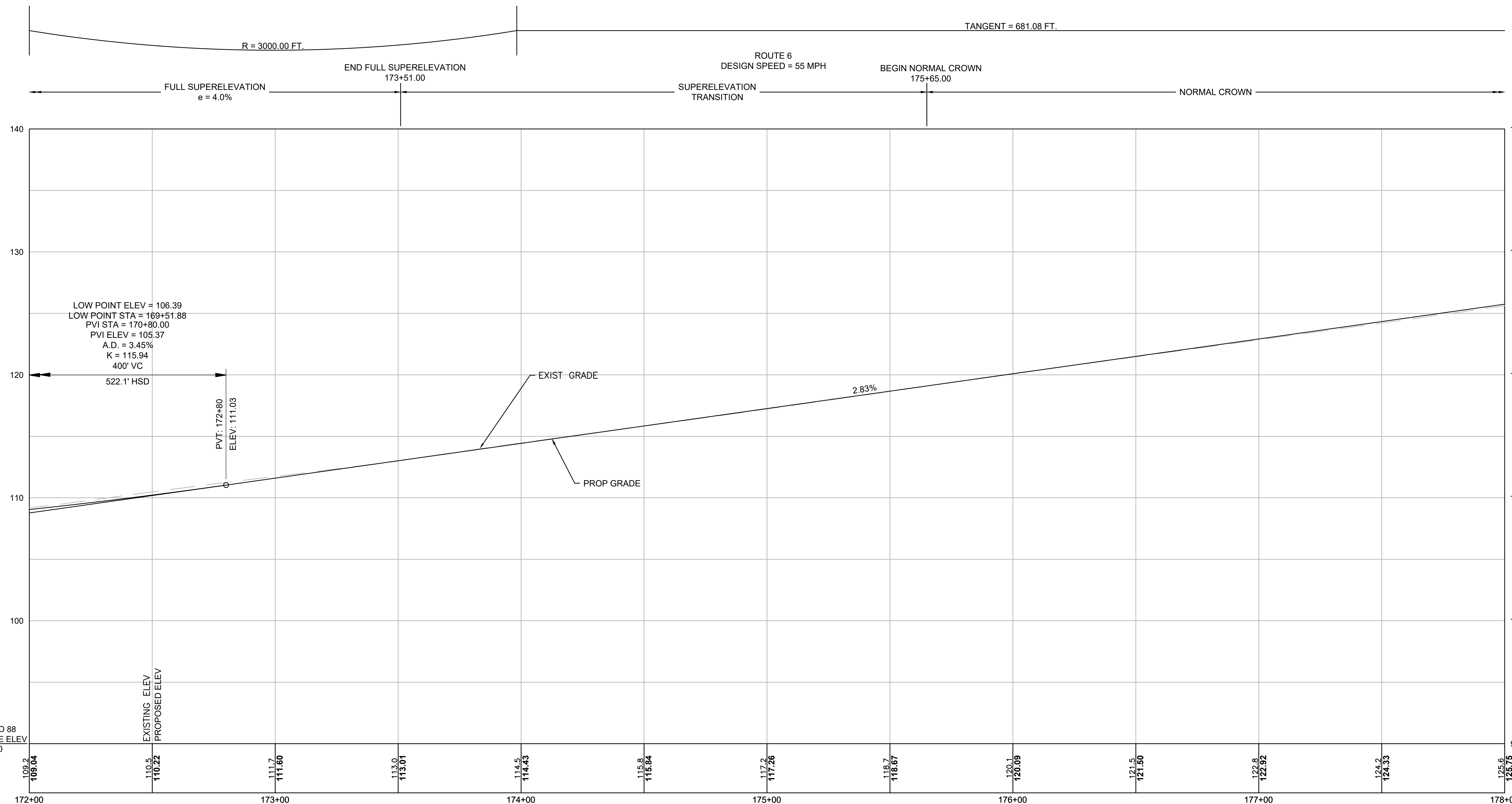
FOR CONSTRUCTION PLANS:  
SEE SHEETS 37&38



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	53	272
PROJECT FILE NO. 606082			

**PROFILES  
SHEET 13 OF 14**

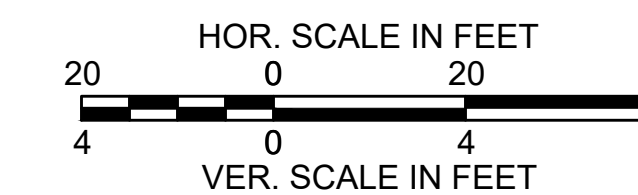


CONTINUED ON  
SHEET NO. 51

CONTINUED ON  
SHEET NO. 54

NAVD 88  
BASE ELEV  
90.00

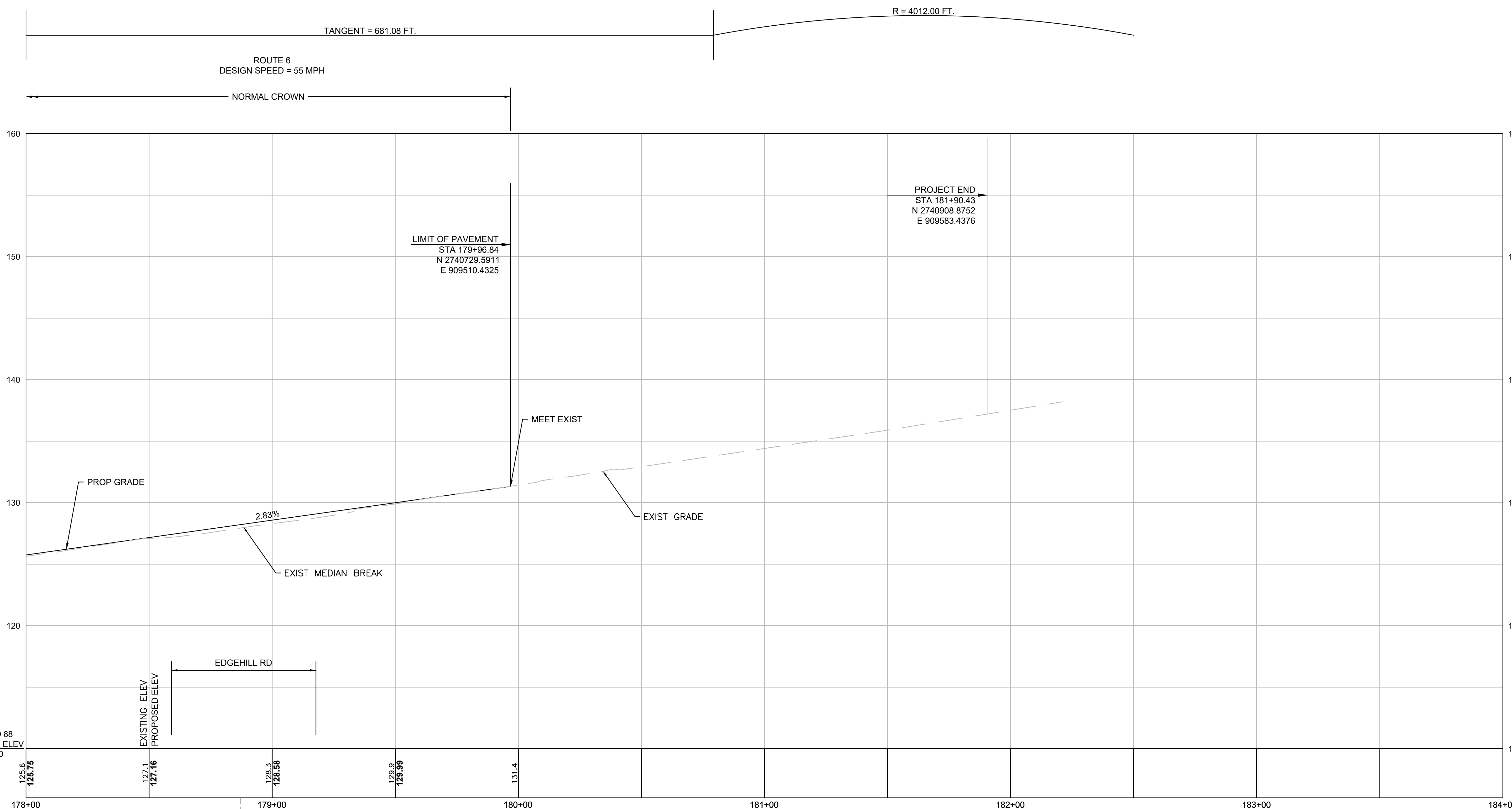
FOR CONSTRUCTION PLANS:  
SEE SHEETS 38&39



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	54	272
PROJECT FILE NO.		606082	

**PROFILES  
SHEET 14 OF 14**

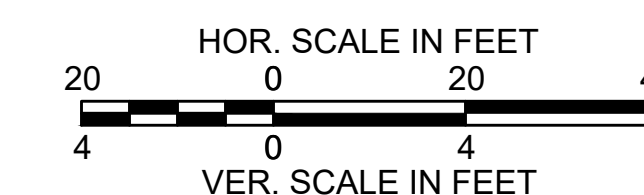


CONTINUED ON  
SHEET NO. 51

STA 178+87.23 PROPOSED ROUTE 6 (SCENIC HIGHWAY) =  
STA 0+16.50 EDGEHILL RD @

BENCHMARK: 1  
Elevation = 129.11'  
Sta. 179+24.73, 83.06' LT

FOR CONSTRUCTION PLANS:  
SEE SHEET 39



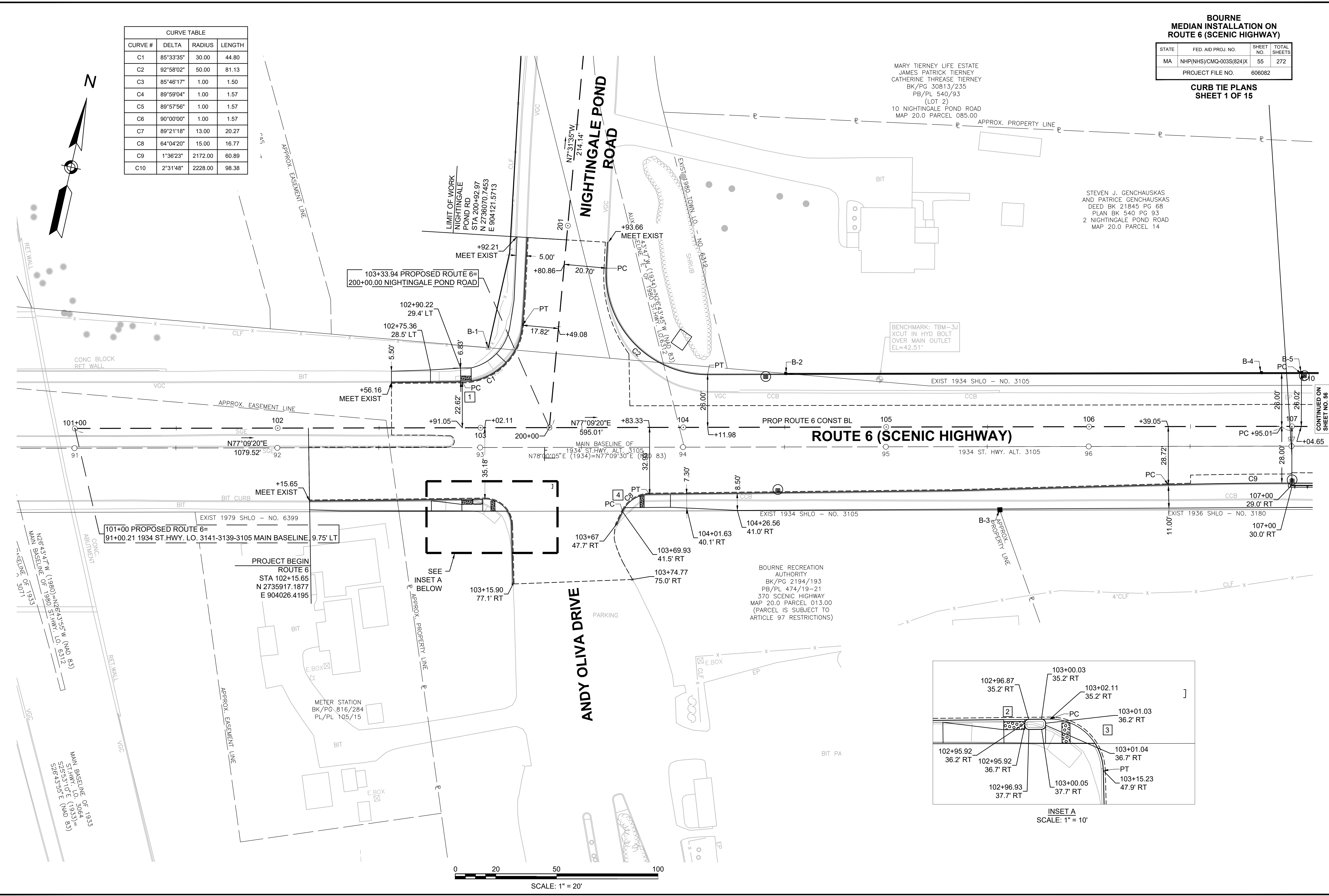
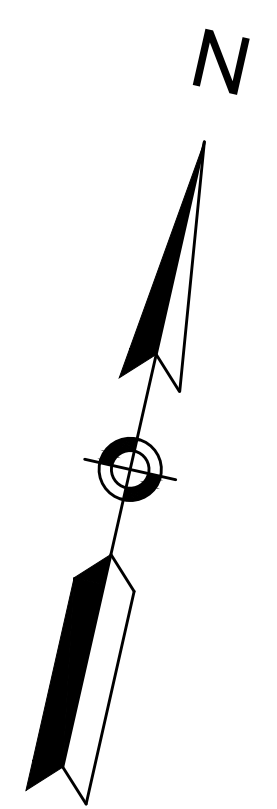


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	55	272
PROJECT FILE NO.			606082

**CURB TIE PLANS  
SHEET 1 OF 15**

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C1	85°33'35"	30.00	44.80
C2	92°58'02"	50.00	81.13
C3	85°46'17"	1.00	1.50
C4	89°59'04"	1.00	1.57
C5	89°57'56"	1.00	1.57
C6	90°00'00"	1.00	1.57
C7	89°21'18"	13.00	20.27
C8	64°04'20"	15.00	16.77
C9	1°36'23"	2172.00	60.89
C10	2°31'48"	2228.00	98.38

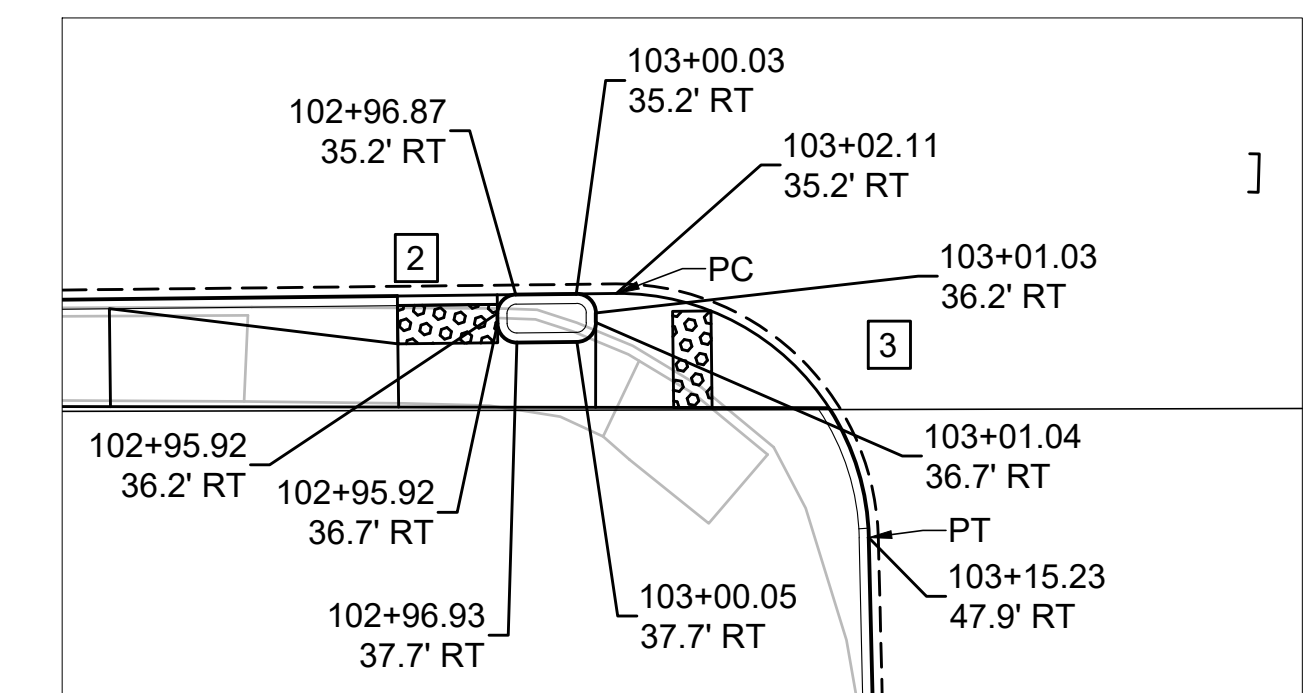


MARY TIERNEY LIFE ESTATE  
JAMES PATRICK TIERNEY  
CATHERINE THREASE TIERNEY  
BK/PG 30813/235  
PB/PL 540/93  
(LOT 2)  
10 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL 085.00

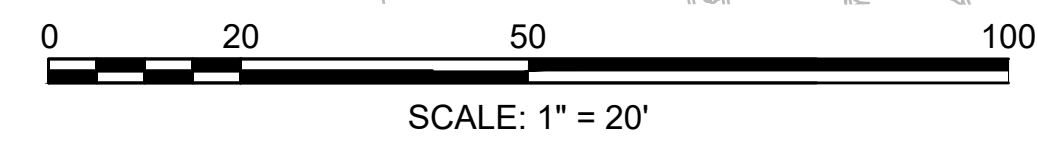
STEVEN J. GENCHAUSKAS  
AND PATRICE GENCHAUSKAS  
DEED BK 21845 PG 68  
PLAN BK 540 PG 93  
2 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL 14

BENCHMARK: TBM-3J  
XCUT IN HYD BOLT  
OVER MAIN OUTLET  
EL=42.51'

BOURNE RECREATION  
AUTHORITY  
BK/PG 2194/193  
PB/PL 474/19-21  
370 SCENIC HIGHWAY  
MAP 20.0 PARCEL 013.00  
(PARCEL IS SUBJECT TO  
ARTICLE 97 RESTRICTIONS)



INSET A  
SCALE: 1" = 10'



CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C9	1°36'23"	2172.00	60.89
C10	2°31'48"	2228.00	98.38

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	56	272
PROJECT FILE NO.		606082	

**CURB TIE PLANS  
SHEET 2 OF 15**

MARIE M. ZAGWYN  
DEED BK 31119 PAGE 340  
DEED BK 31252 PAGE 187  
PB BK 629 PL 68  
72 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL 88

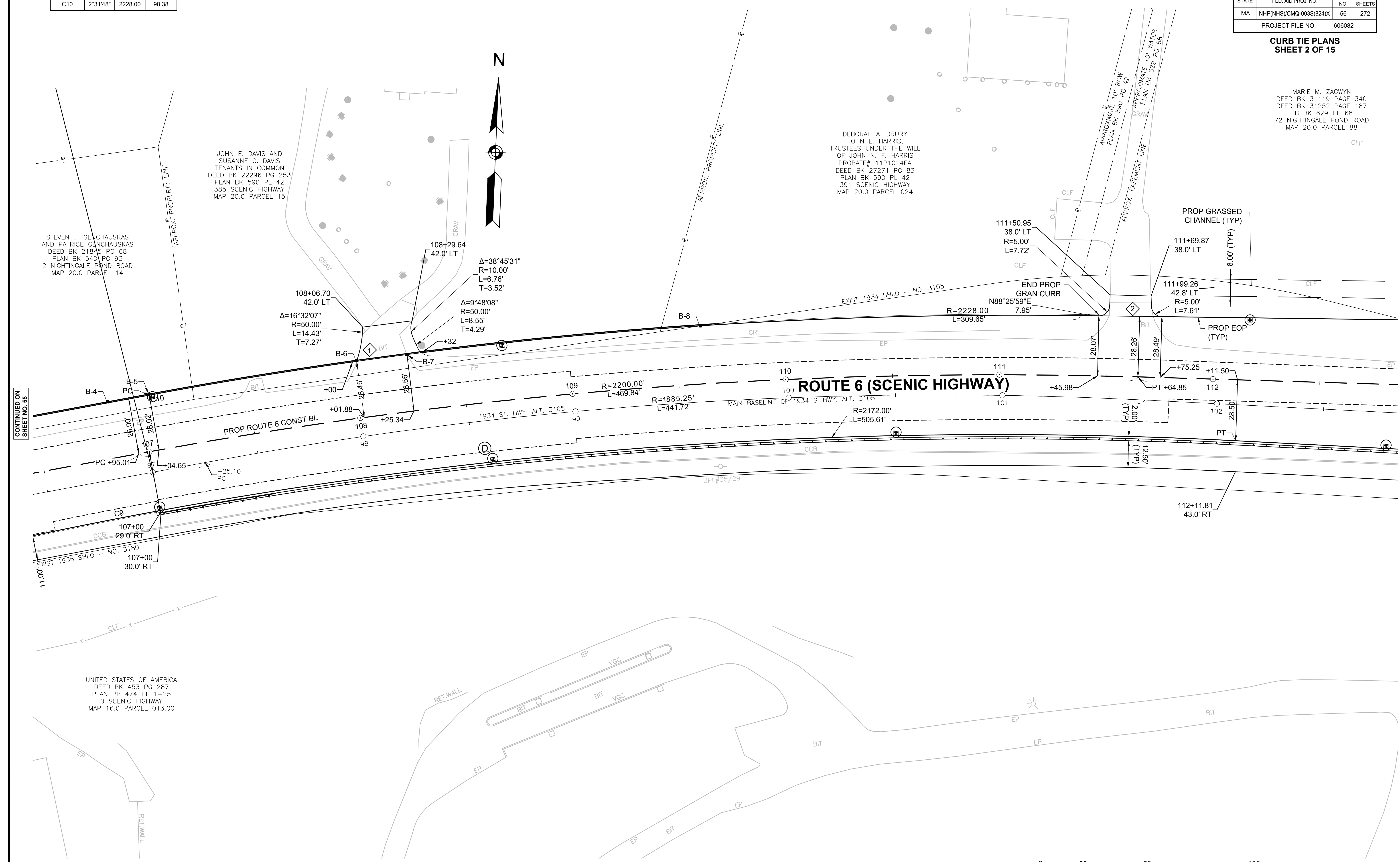
DEBORAH A. DRURY  
JOHN E. HARRIS,  
TRUSTEES UNDER THE WILL  
OF JOHN N. F. HARRIS  
PROBATE# 11P1014EA  
DEED BK 27271 PG 83  
PLAN BK 590 PL 42  
391 SCENIC HIGHWAY  
MAP 20.0 PARCEL 024

JOHN E. DAVIS AND  
SUSANNE C. DAVIS  
TENANTS IN COMMON  
DEED BK 22296 PG 253  
PLAN BK 590 PL 42  
385 SCENIC HIGHWAY  
MAP 20.0 PARCEL 15

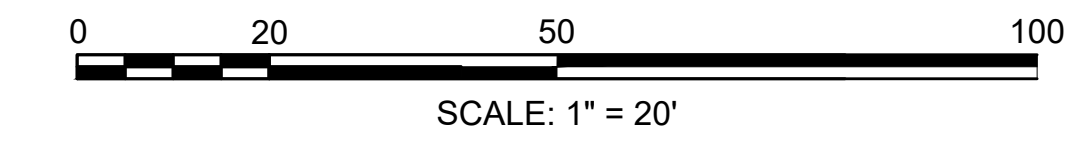
STEVEN J. GENCHAUSKAS  
AND PATRICE GENCHAUSKAS  
DEED BK 21845 PG 68  
PLAN BK 540 PG 93  
2 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL 14

CONTINUED ON  
SHEET NO. 55

CONTINUED ON  
SHEET NO. 57



UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00



CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C11	179°40'35"	2.00	6.27

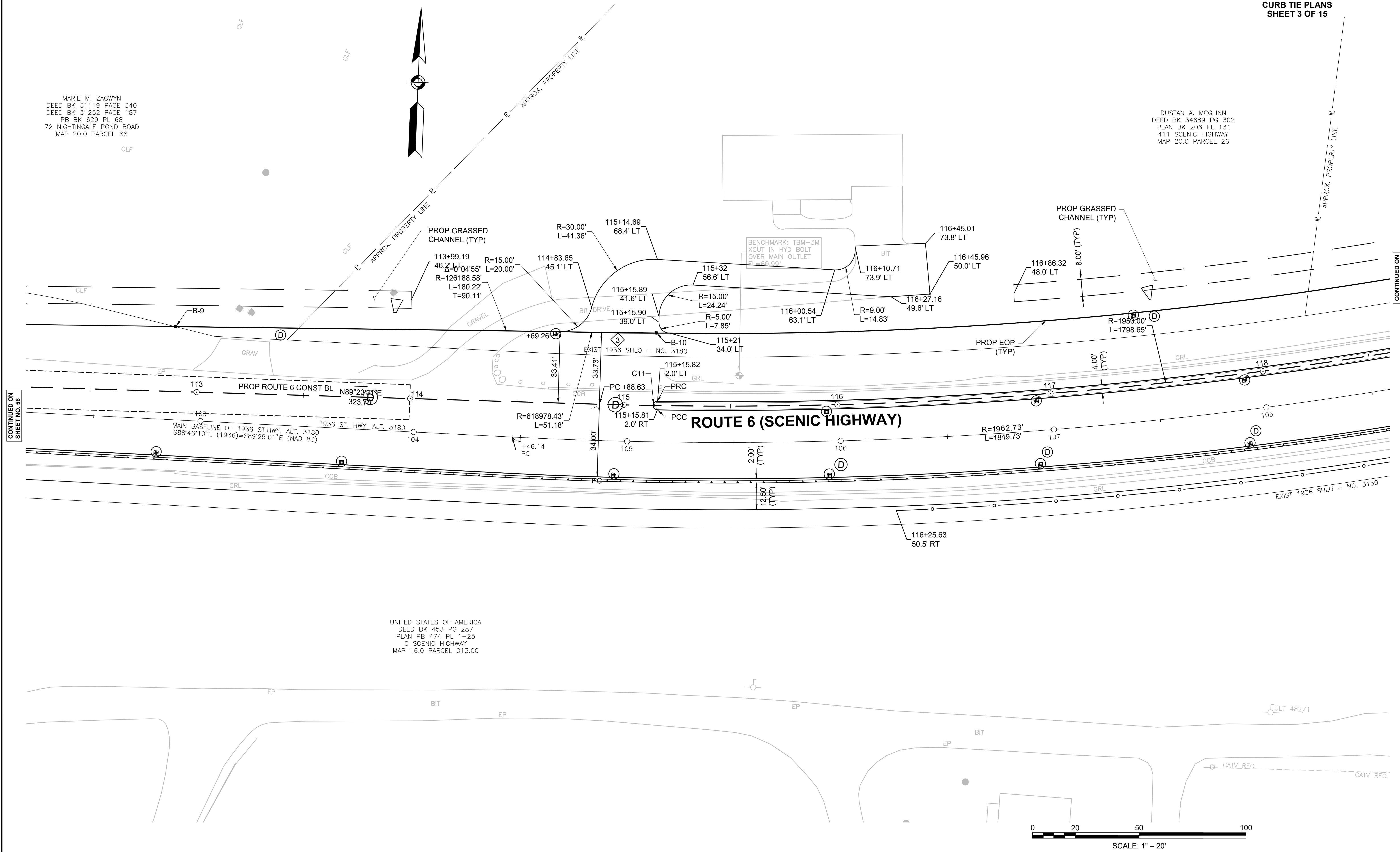
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	57	272
PROJECT FILE NO.		606082	

**CURB TIE PLANS  
SHEET 3 OF 15**

MARIE M. ZAGWYN  
DEED BK 31119 PAGE 340  
DEED BK 31252 PAGE 187  
PB BK 629 PL 68  
72 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL 88

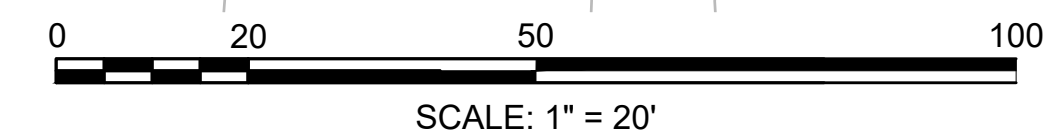
DUSTAN A. MCCLINN  
DEED BK 34689 PG 302  
PLAN BK 206 PL 131  
411 SCENIC HIGHWAY  
MAP 20.0 PARCEL 26



CONTINUED ON SHEET NO. 56

CONTINUED ON SHEET NO. 58

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	58	272
PROJECT FILE NO.		606082	

**CURB TIE PLANS  
SHEET 4 OF 15**

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C50	136°57'10"	2.00	4.78
C51	124°42'45"	2.00	4.35
C52	104°48'34"	3.00	5.49

NOTE: DEVELOPMENT UNDER CONSTRUCTION. EXISTING BLDG LIMITS AND FUTURE DRIVEWAY/SEPTIC SYSTEM WORK SHOWN HAS BEEN DIGITIZED ACCORDING TO SITE PLANS. CONTRACTOR TO FIELD-VERIFY TIE-IN LOCATIONS AND SUBMIT TO THE ENGINEER FOR APPROVAL.

SCENIC DEVELOPMENT, LLC  
DEED BK 34392 PG 329  
PLAN BK 691 PL 92  
451 SCENIC HIGHWAY  
MAP 20.0 PARCEL 34

SEMAAN HAJNASR  
DEED BK 26960 PG 183  
PB 206 PL 131  
421 SCENIC HIGHWAY  
MAP 20.0 PARCEL 27

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION  
(PARCEL D-15-F)  
BOOK 7162 PAGE 123

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION  
(PARCEL D-16-F)  
BOOK 7162 PAGE 123

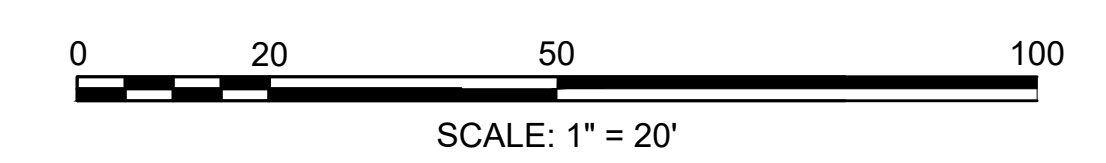
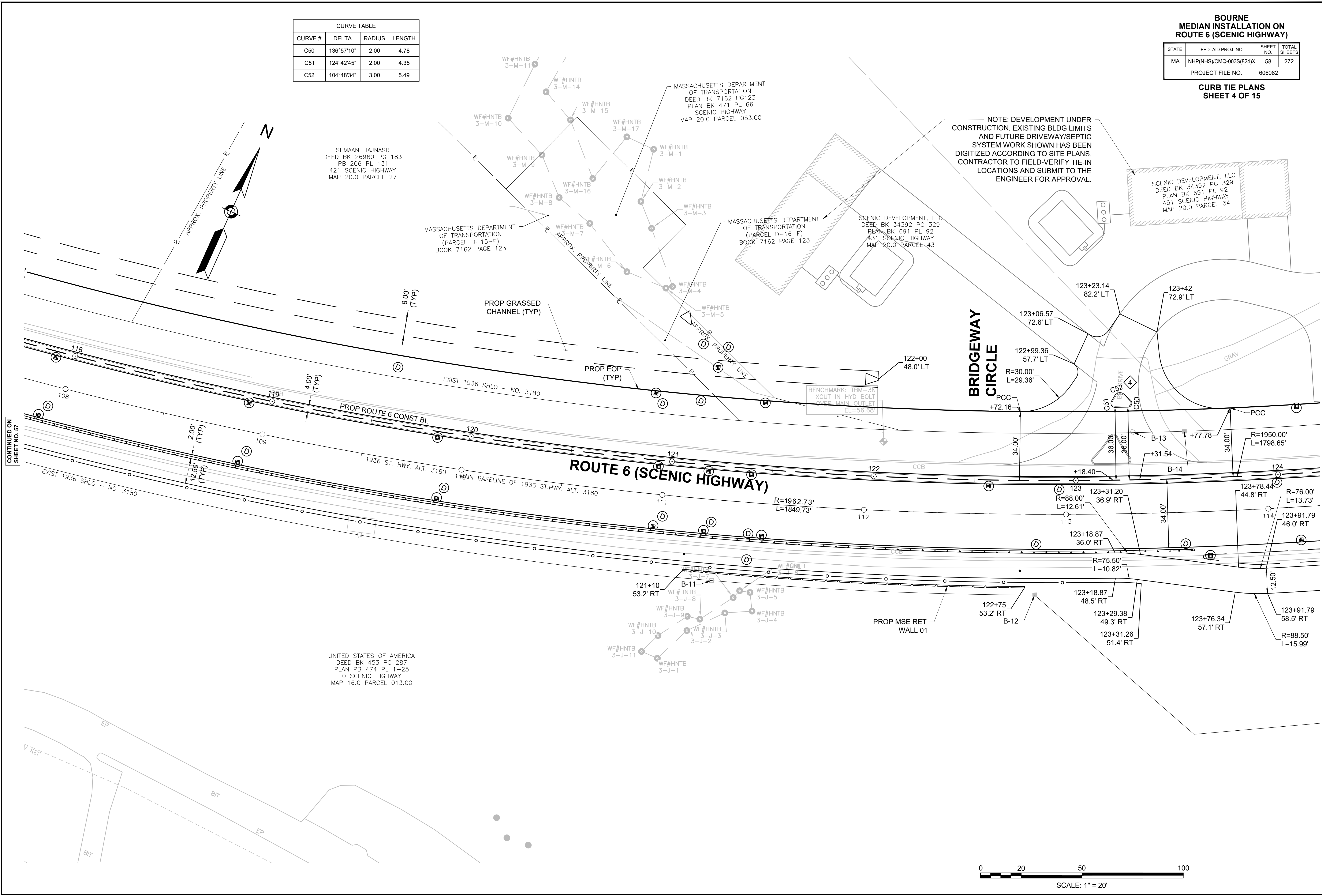
SCENIC DEVELOPMENT, LLC  
DEED BK 34392 PG 329  
PLAN BK 691 PL 92  
431 SCENIC HIGHWAY  
MAP 20.0 PARCEL 43

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION  
DEED BK 7162 PG123  
PLAN BK 471 PL 66  
SCENIC HIGHWAY  
MAP 20.0 PARCEL 053.00

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

CONTINUED ON SHEET NO. 57

CONTINUED ON SHEET NO. 59





**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

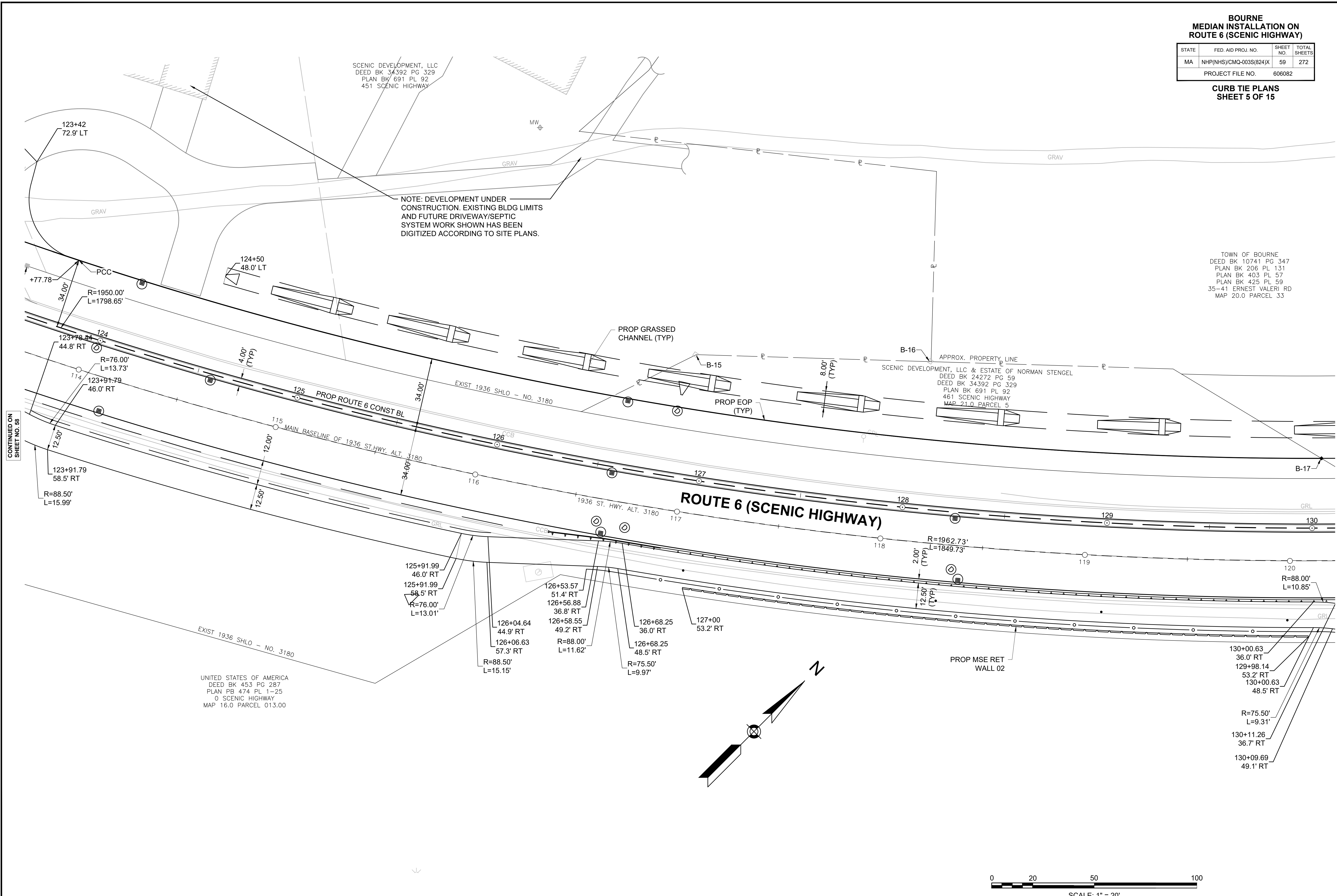
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	59	272
PROJECT FILE NO.			606082

**CURB TIE PLANS  
SHEET 5 OF 15**

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

SCENIC DEVELOPMENT, LLC  
DEED BK 34392 PG 329  
PLAN BK 691 PL 92  
451 SCENIC HIGHWAY

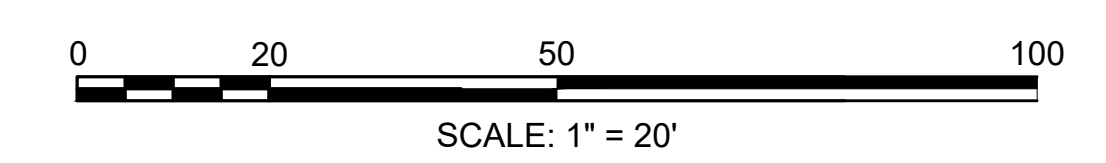
NOTE: DEVELOPMENT UNDER  
CONSTRUCTION. EXISTING BLDG LIMITS  
AND FUTURE DRIVEWAY/SEPTIC  
SYSTEM WORK SHOWN HAS BEEN  
DIGITIZED ACCORDING TO SITE PLANS.



CONTINUED ON  
SHEET NO. 58

CONTINUED ON  
SHEET NO. 60

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00



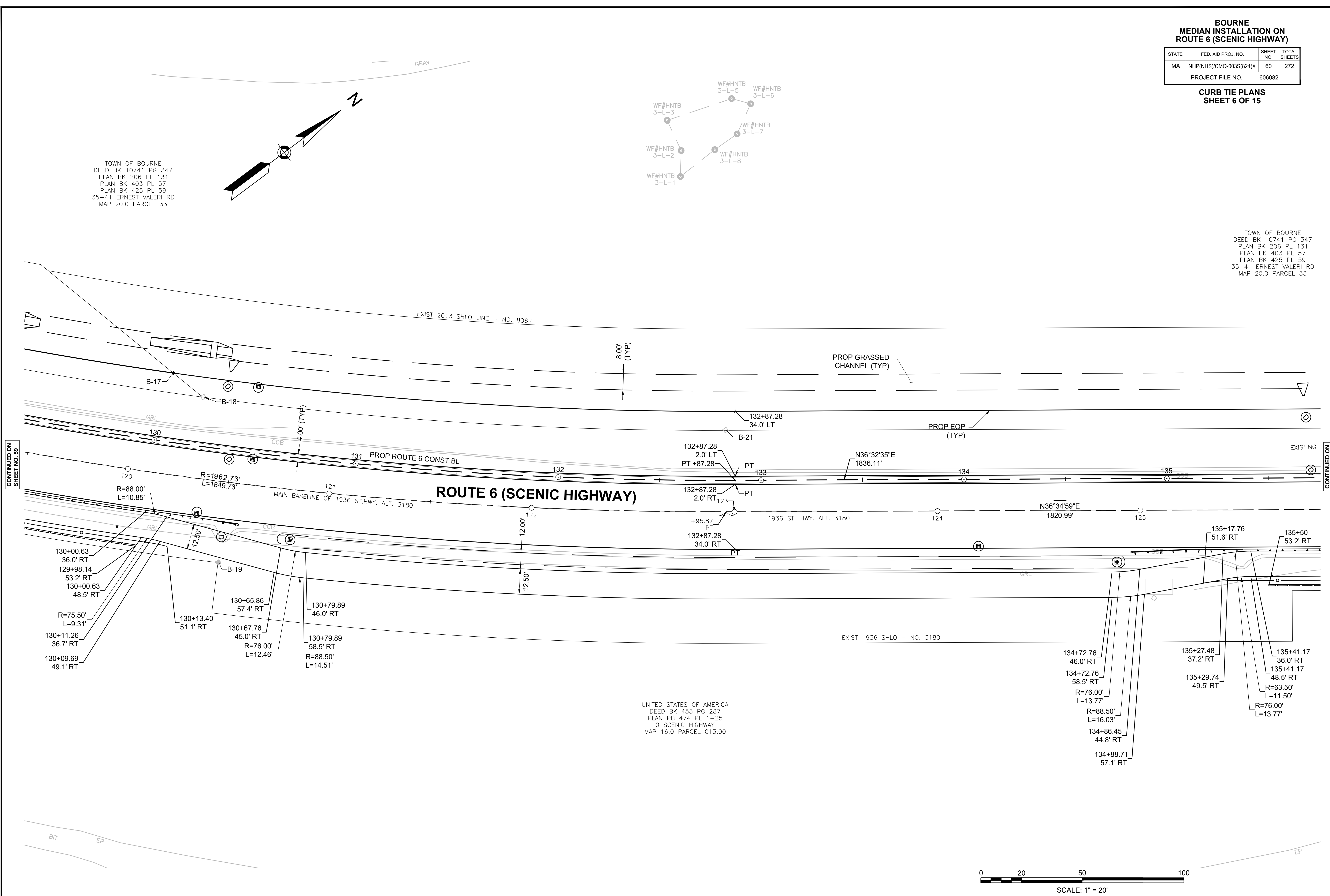
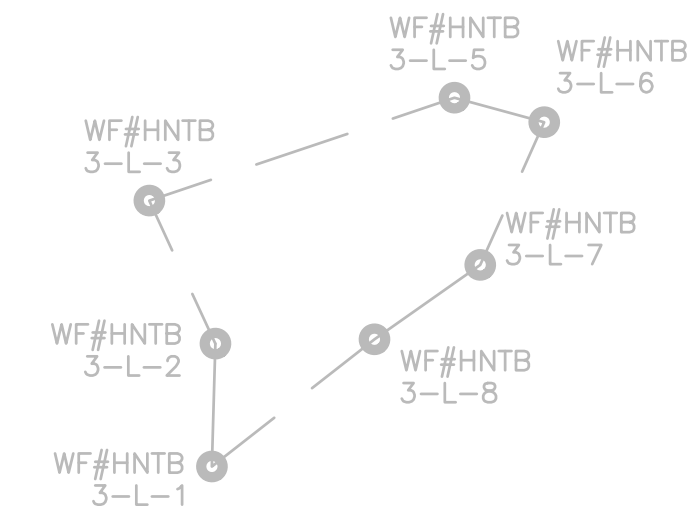
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	60	272
PROJECT FILE NO.		606082	

**CURB TIE PLANS  
SHEET 6 OF 15**

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

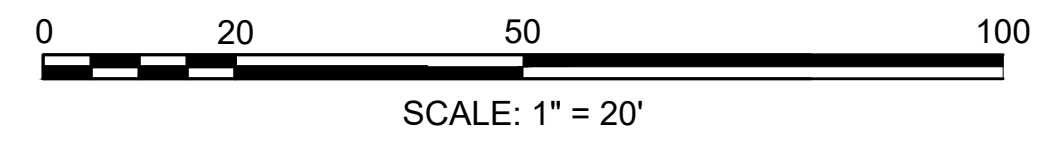
TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33



CONTINUED ON  
SHEET NO. 59

CONTINUED ON  
SHEET NO. 61

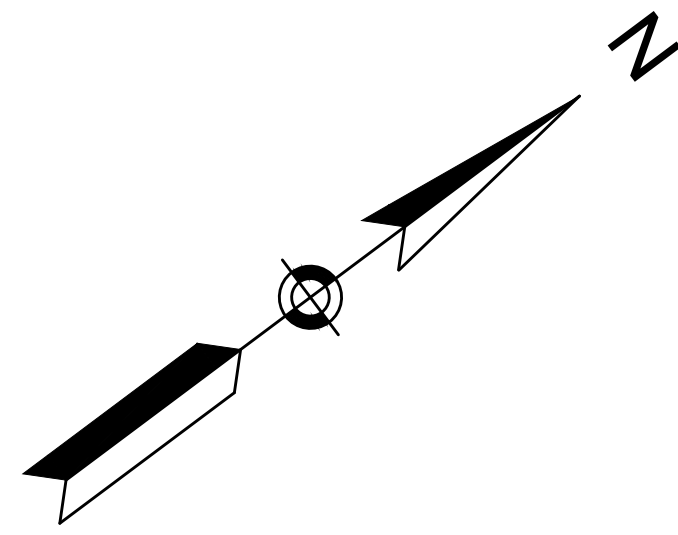
UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00



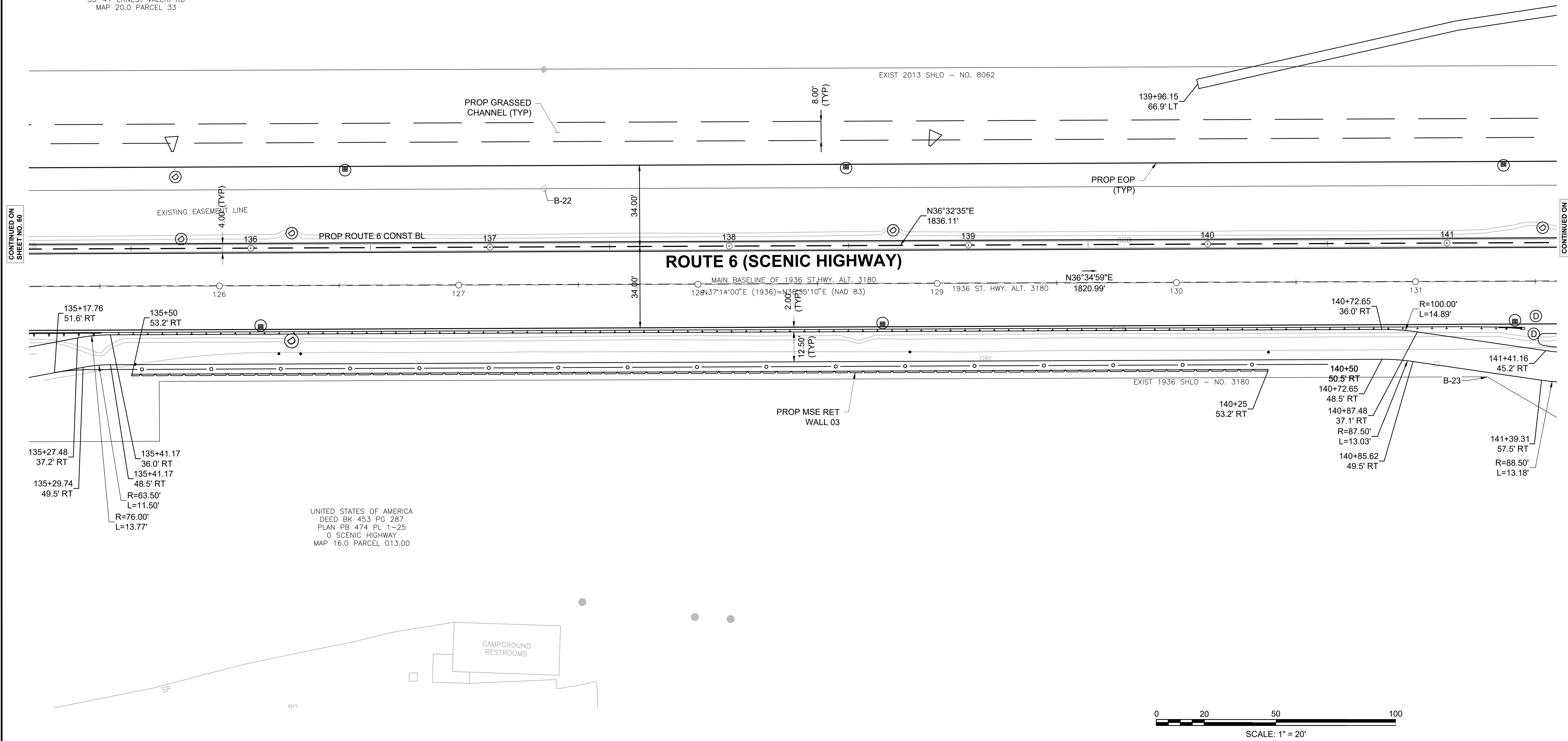
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	61	272
PROJECT FILE NO.		606082	

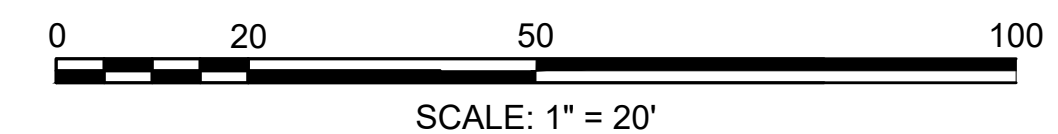
**CURB TIE PLANS  
SHEET 7 OF 15**



TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33



UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00



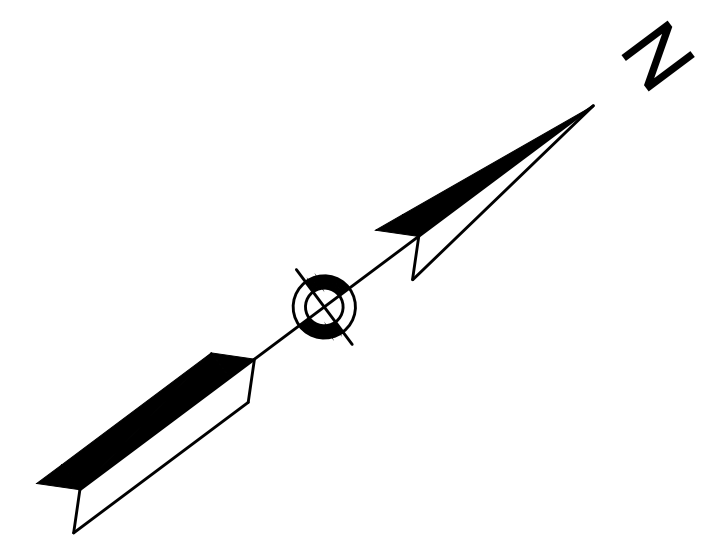
CONTINUED ON  
SHEET NO. 60

CONTINUED ON  
SHEET NO. 62

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	62	272
PROJECT FILE NO.		606082	

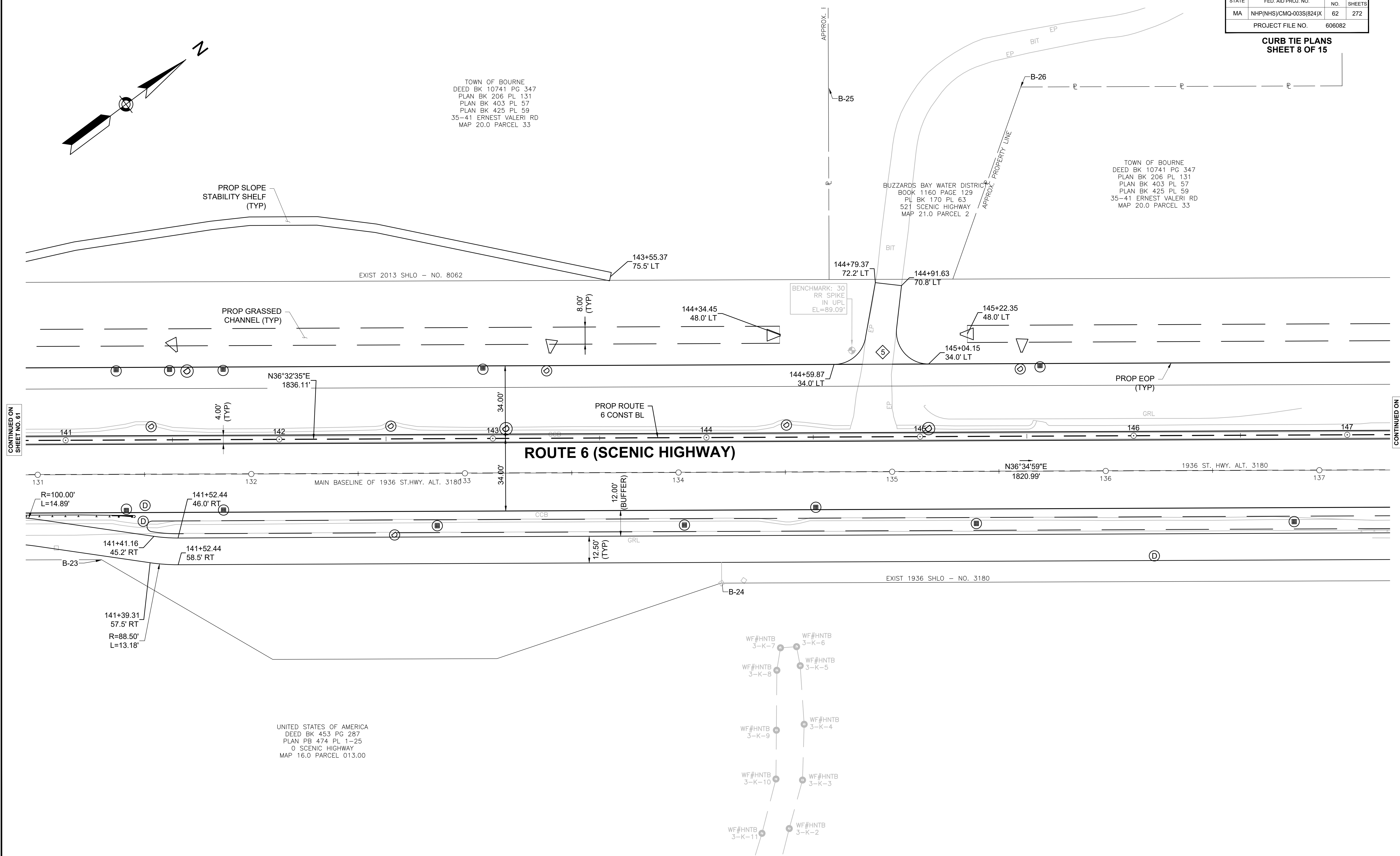
**CURB TIE PLANS  
SHEET 8 OF 15**



TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

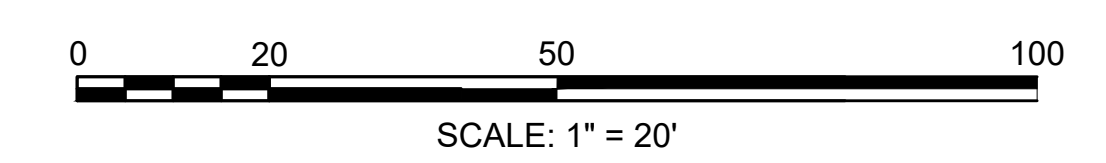
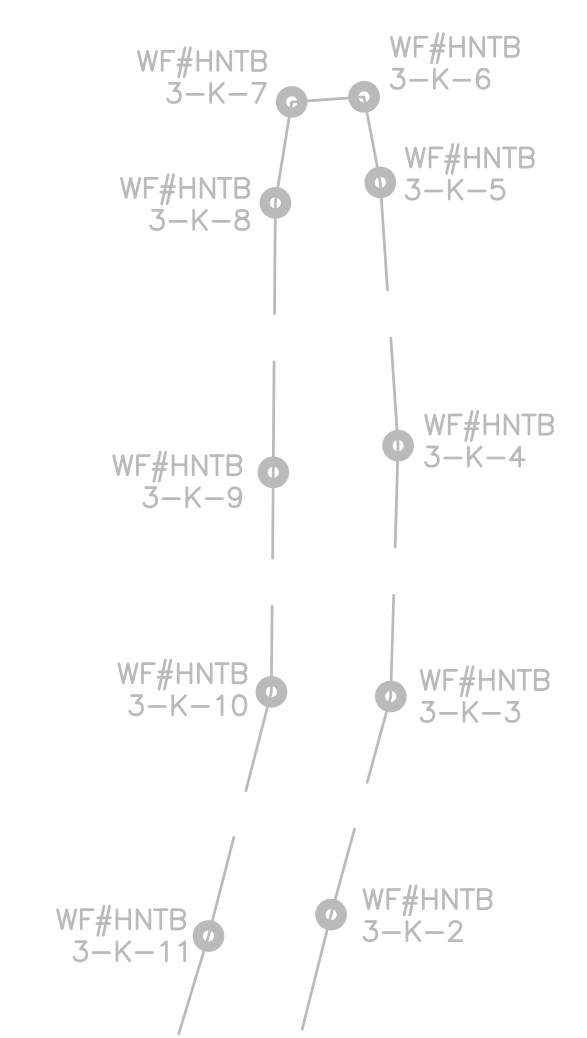
BUZZARDS BAY WATER DISTRICT  
BOOK 1160 PAGE 129  
PL BK 170 PL 63  
521 SCENIC HIGHWAY  
MAP 21.0 PARCEL 2



CONTINUED ON  
SHEET NO. 61

CONTINUED ON  
SHEET NO. 63

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

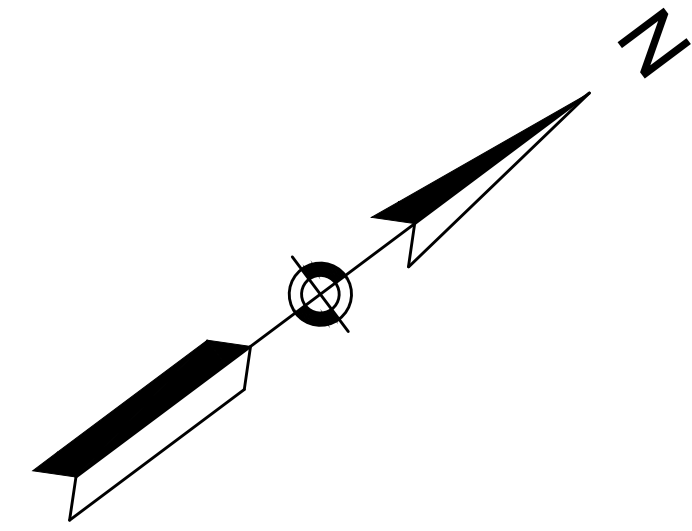




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

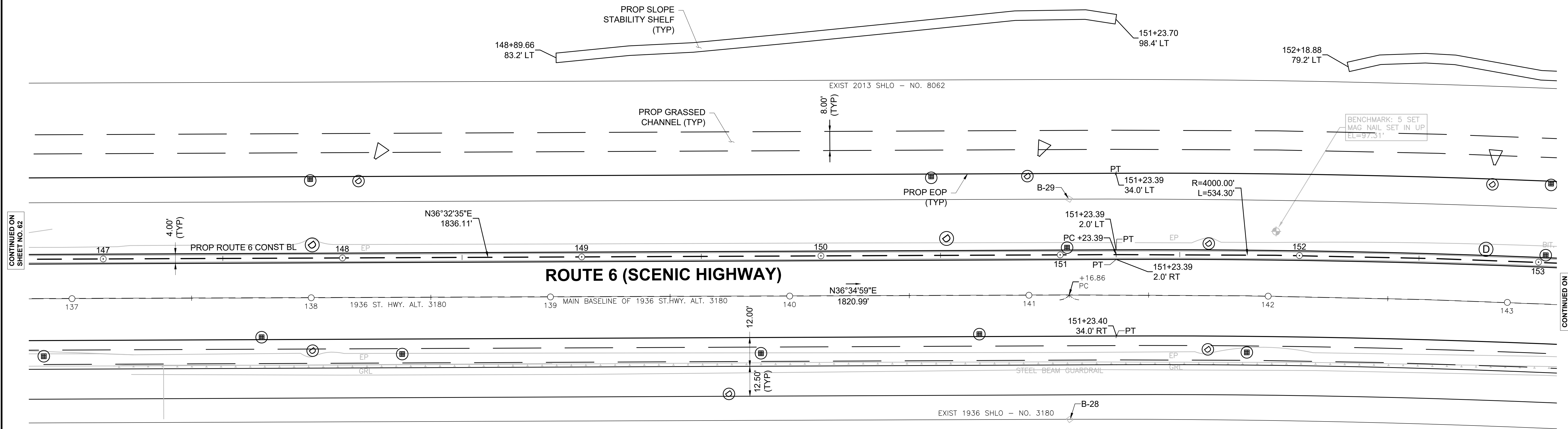
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	63	272
PROJECT FILE NO.		606082	

**CURB TIE PLANS  
SHEET 9 OF 15**



AREA U/C

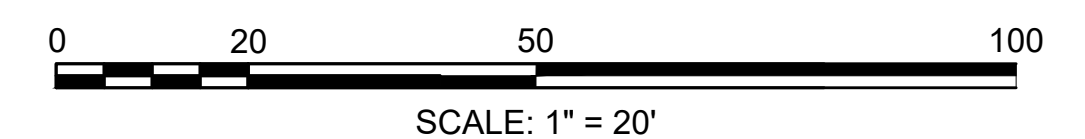
TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33



CONTINUED ON  
SHEET NO. 62

CONTINUED ON  
SHEET NO. 64

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

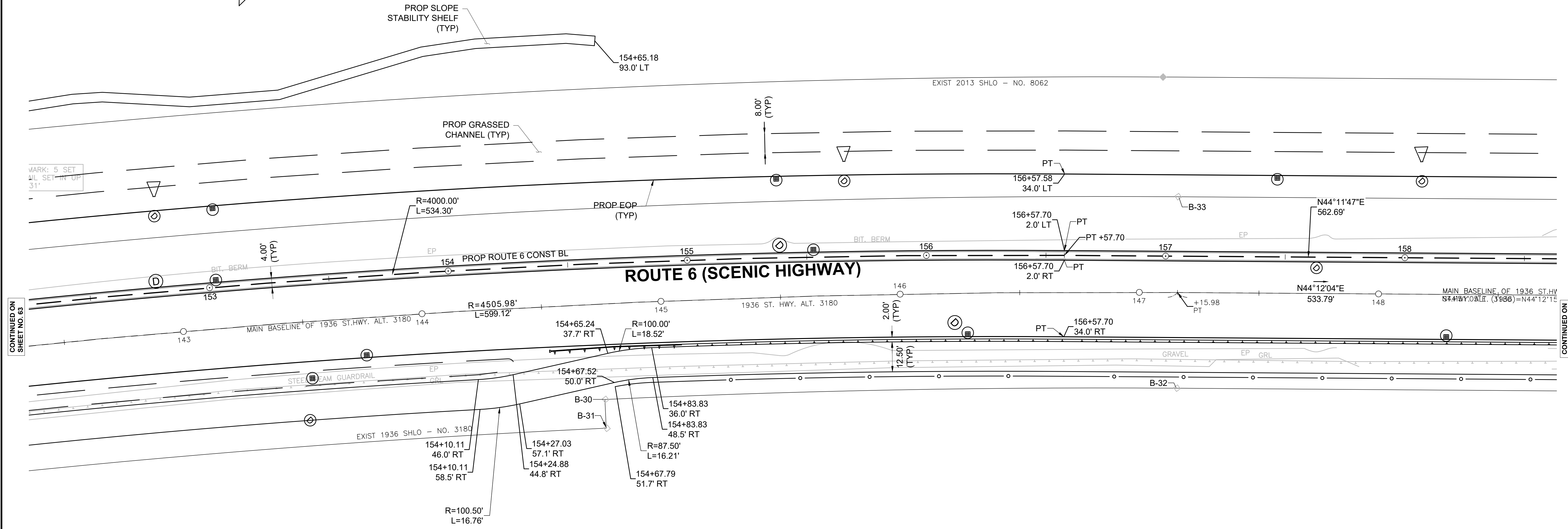
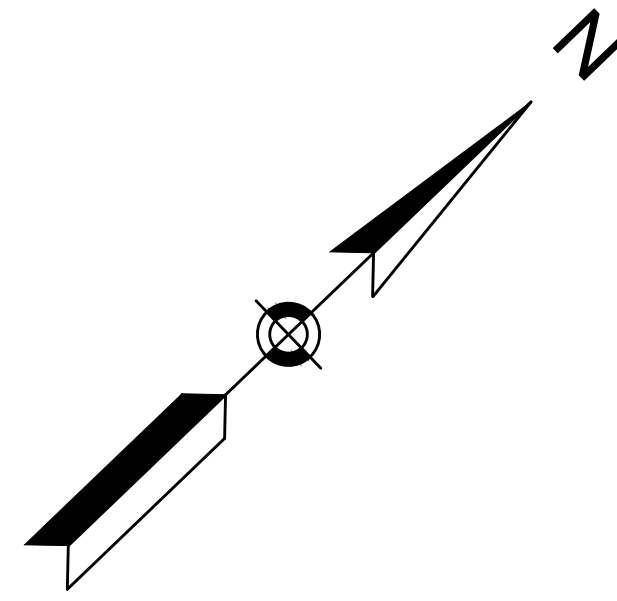


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	64	272
PROJECT FILE NO.		606082	

**CURB TIE PLANS  
SHEET 10 OF 15**

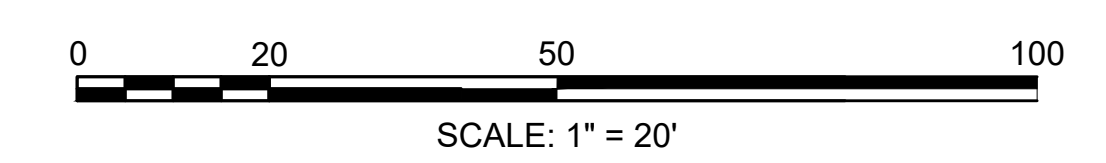
TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33



CONTINUED ON  
SHEET NO. 63

CONTINUED ON  
SHEET NO. 65

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

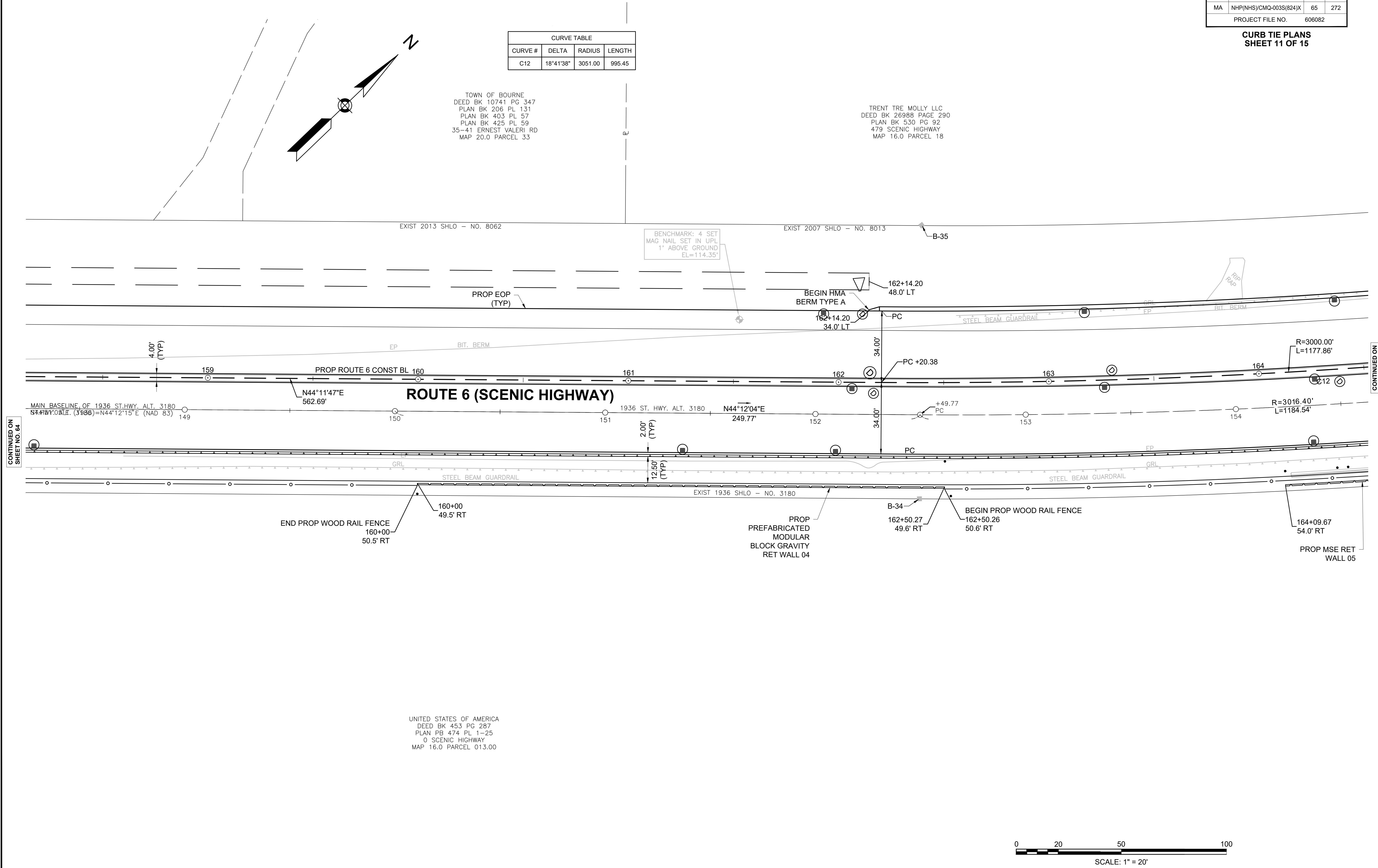
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	65	272
PROJECT FILE NO.		606082	

**CURB TIE PLANS  
SHEET 11 OF 15**

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C12	18°41'38"	3051.00	995.45

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

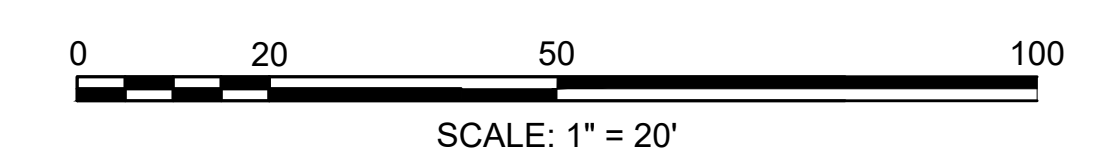
TRENT TRE MOLLY LLC  
DEED BK 26988 PAGE 290  
PLAN BK 530 PG 92  
479 SCENIC HIGHWAY  
MAP 16.0 PARCEL 18



CONTINUED ON  
SHEET NO. 64

CONTINUED ON  
SHEET NO. 65

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

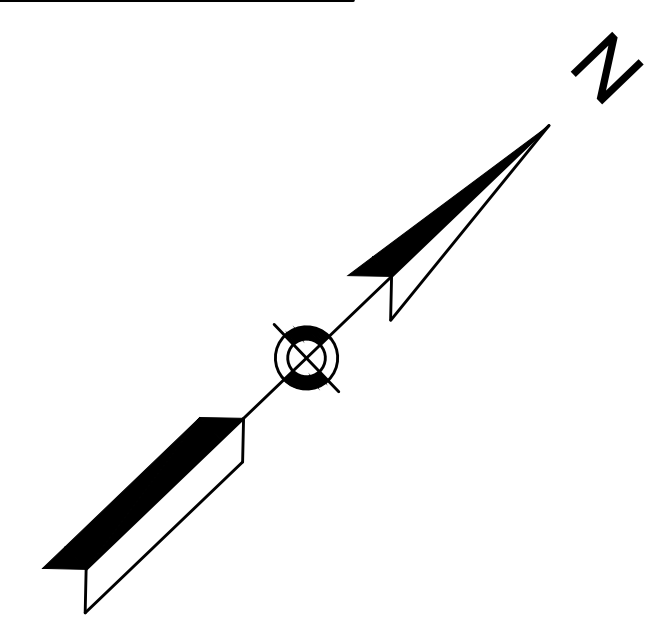


CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C12	18°41'38"	3051.00	995.45
C14	25°38'37"	112.00	50.13
C15	28°54'29"	75.00	37.84
C16	5°40'25"	2976.50	294.74
C37	12°35'29"	3083.00	677.53

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	66	272
PROJECT FILE NO.		606082	

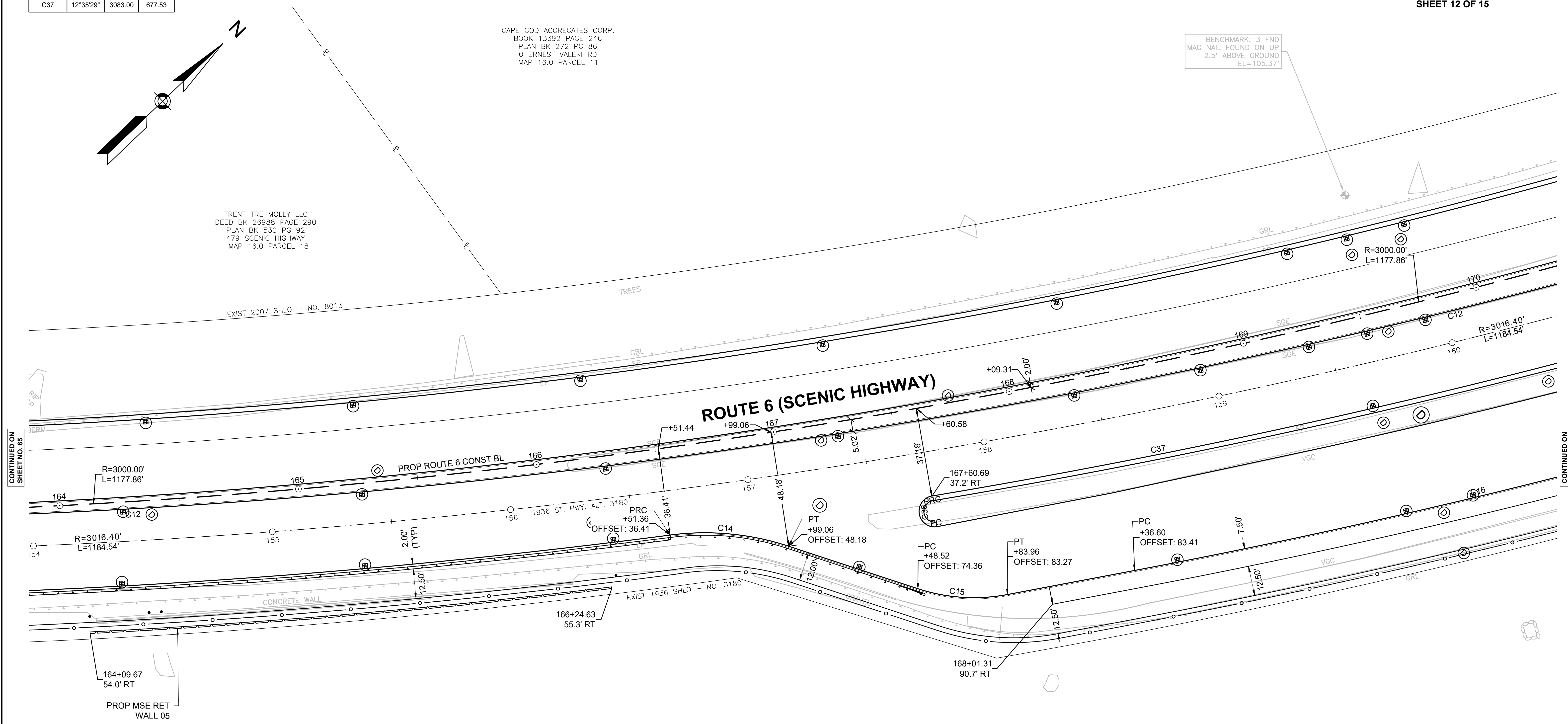
**CURB TIE PLANS  
SHEET 12 OF 15**



CAPE COD AGGREGATES CORP.  
BOOK 13392 PAGE 246  
PLAN BK 272 PG 86  
O ERNEST VALERI RD  
MAP 16.0 PARCEL 11

TRENT TRE MOLLY LLC  
DEED BK 26988 PAGE 290  
PLAN BK 530 PG 92  
479 SCENIC HIGHWAY  
MAP 16.0 PARCEL 18

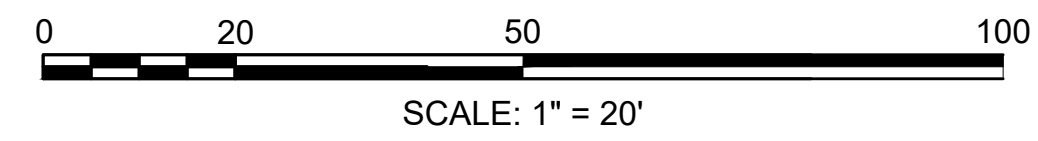
BENCHMARK: 3 FND  
MAG NAIL FOUND ON UP  
2.5' ABOVE GROUND  
EL=105.37'



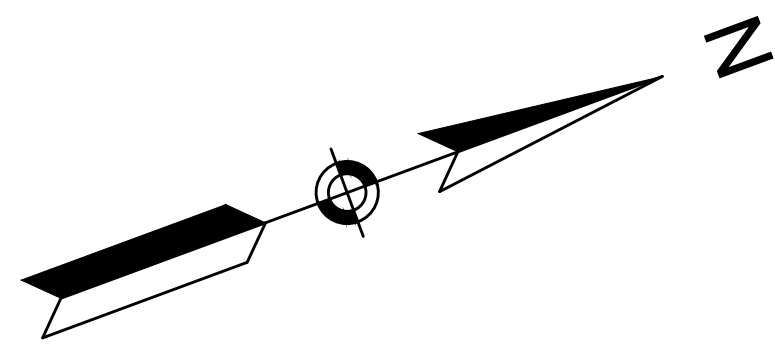
CONTINUED ON  
SHEET NO. 65

CONTINUED ON  
SHEET NO. 67

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00







CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C12	18°41'38"	3051.00	995.45
C13	4°41'09"	250.00	20.45
C16	5°40'25"	2976.50	294.74
C17	59°53'33"	5.00	5.23
C18	60°05'00"	5.00	5.24
C21	2°02'06"	3043.21	108.09
C22	56°37'40"	5.01	4.95
C23	56°31'35"	5.00	4.93
C24	3°15'54"	2976.50	169.61
C25	25°42'11"	100.00	44.86
C37	12°35'29"	3083.00	677.53
C38	153°49'42"	4.00	10.73
C39	25°42'11"	84.00	37.68
C40	0°34'38"	10920.00	110.01

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	67	272
PROJECT FILE NO.		606082	

**CURB TIE PLANS  
SHEET 13 OF 15**

BENCHMARK: 3 FND  
B.L. FOUND ON UP  
1' ABOVE GROUND  
EL=105.37'

CAPE COD AGGREGATES CORP.  
BOOK 13392 PAGE 246  
PLAN BK 272 PG 86  
0 ERNEST VALERI RD  
MAP 16.0 PARCEL 11

COMMONWEALTH OF MASSACHUSETTS  
DEED BK 22472 PG 269  
635 SCENIC HIGHWAY  
MAP 16.0 PARCEL 10

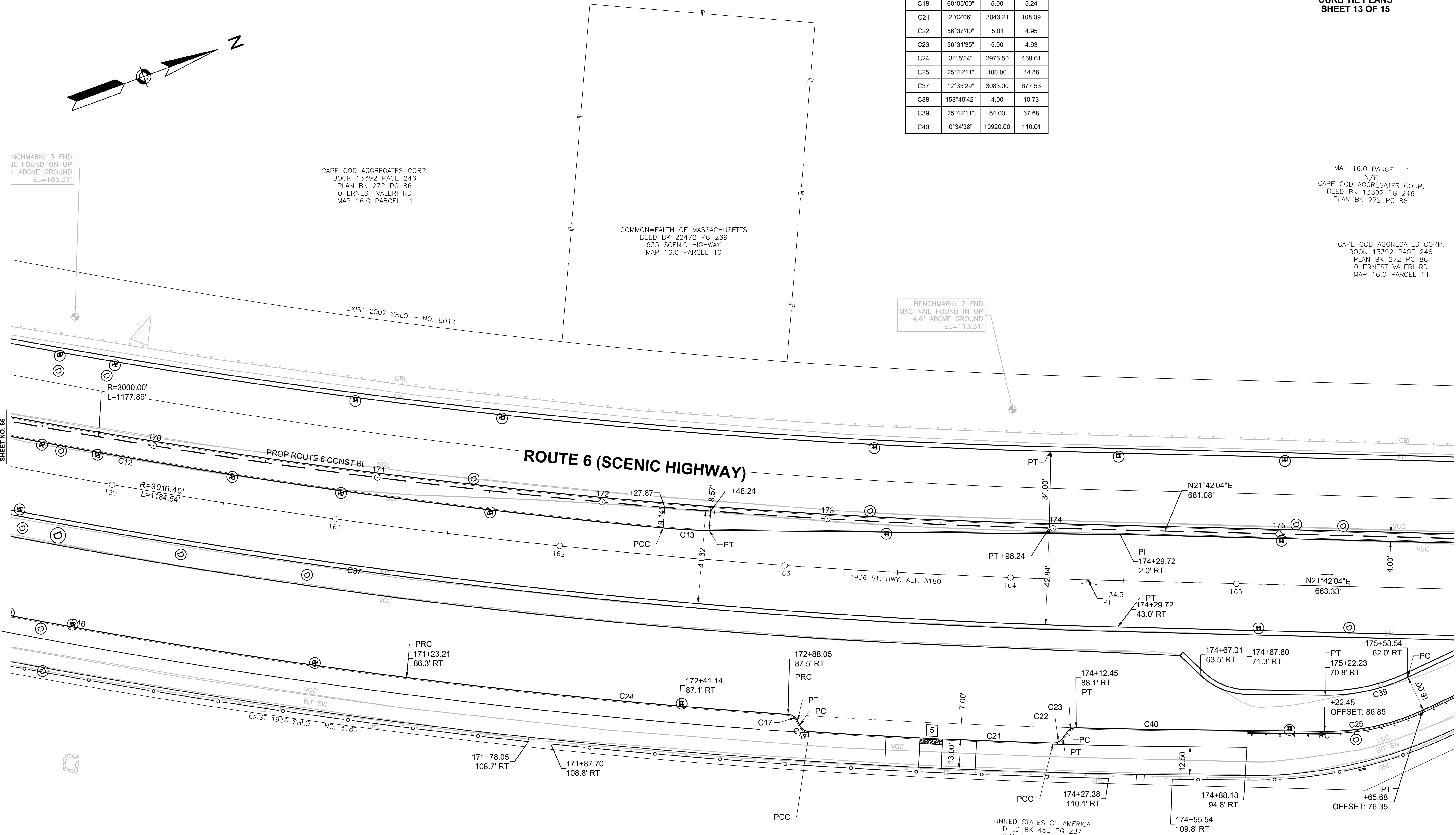
MAP 16.0 PARCEL 11  
N/F  
CAPE COD AGGREGATES CORP.  
DEED BK 13392 PG 246  
PLAN BK 272 PG 86

CAPE COD AGGREGATES CORP.  
BOOK 13392 PAGE 246  
PLAN BK 272 PG 86  
0 ERNEST VALERI RD  
MAP 16.0 PARCEL 11

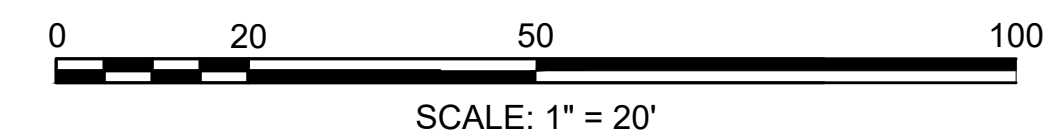
BENCHMARK: 2 FND  
MAG NAIL FOUND IN UP  
4.6' ABOVE GROUND  
EL=113.31'

CONTINUED ON  
SHEET NO. 66

CONTINUED ON  
SHEET NO. 68



UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

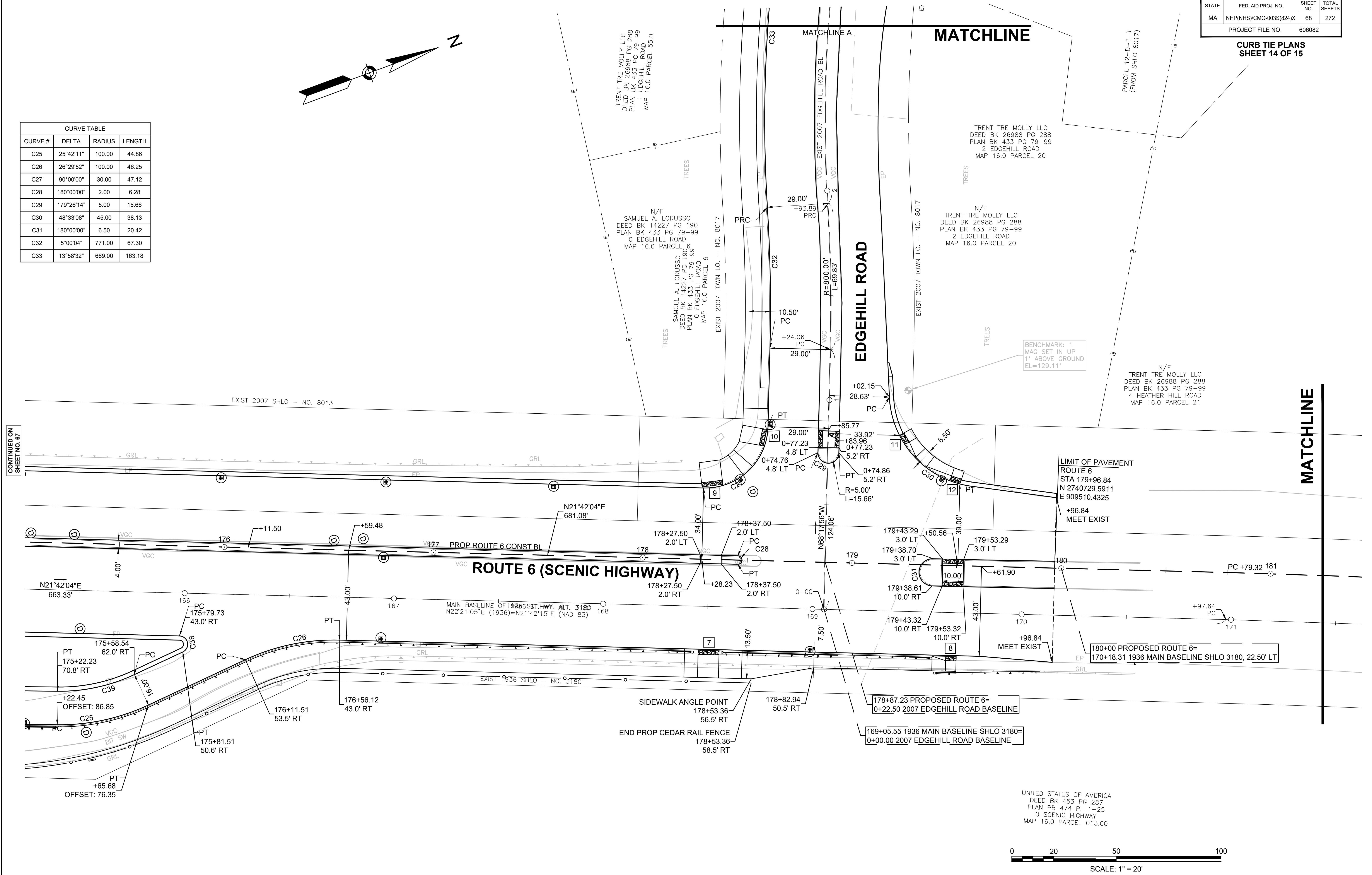
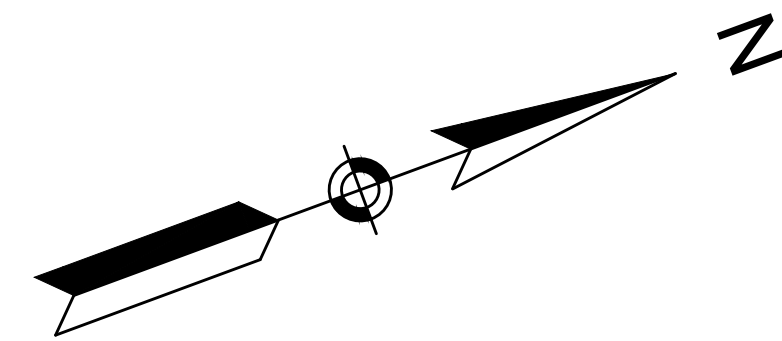


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	68	272
PROJECT FILE NO.		606082	

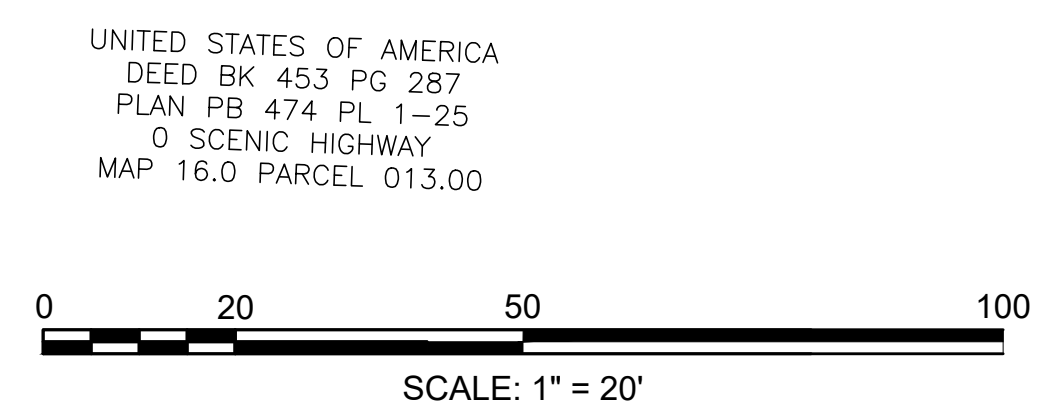
**CURB TIE PLANS  
SHEET 14 OF 15**

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C25	25°42'11"	100.00	44.86
C26	26°29'52"	100.00	46.25
C27	90°00'00"	30.00	47.12
C28	180°00'00"	2.00	6.28
C29	179°26'14"	5.00	15.66
C30	48°33'08"	45.00	38.13
C31	180°00'00"	6.50	20.42
C32	5°00'04"	771.00	67.30
C33	13°58'32"	669.00	163.18



CONTINUED ON  
SHEET NO. 67

MATCHLINE



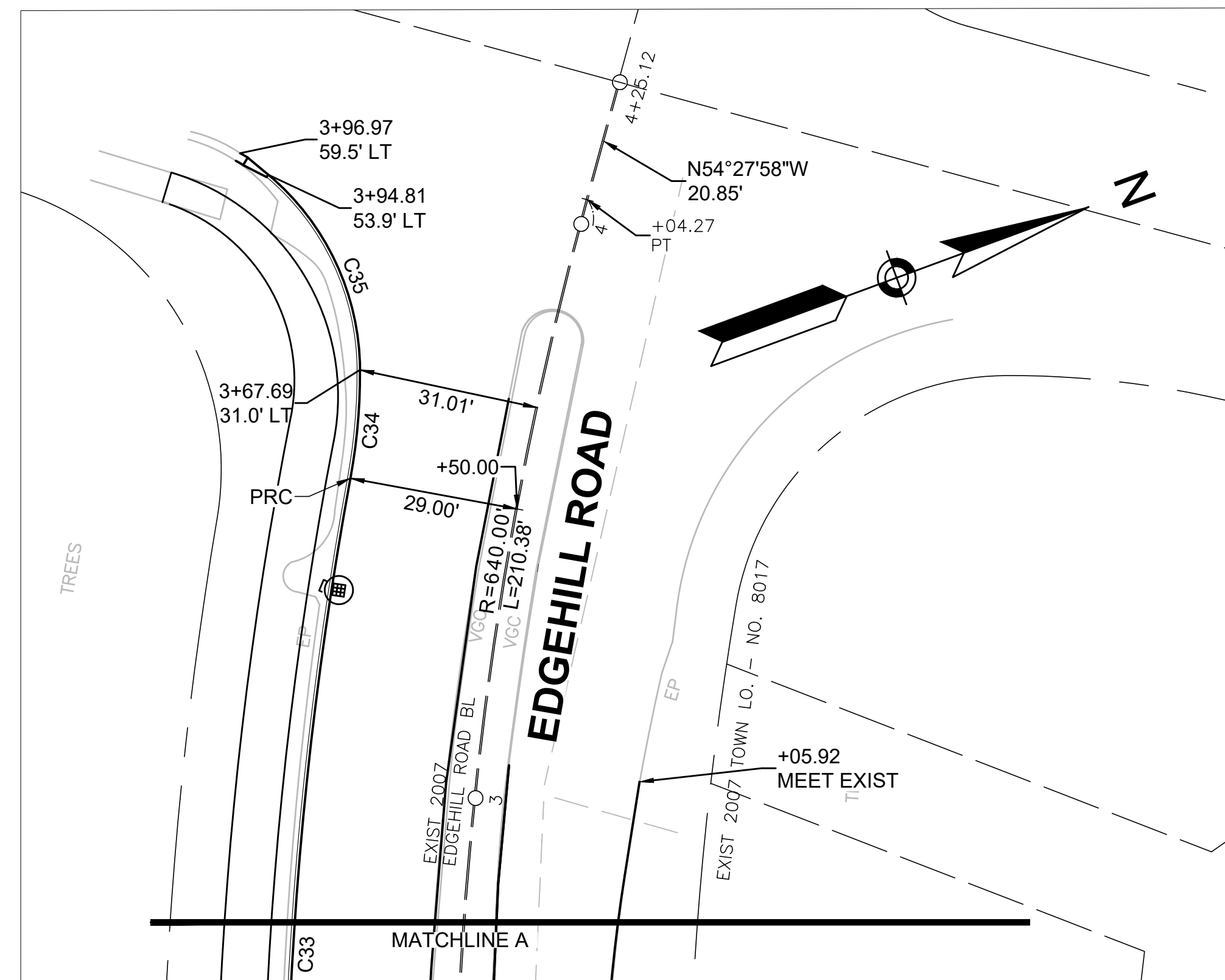
UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	69	272
PROJECT FILE NO.		606082	

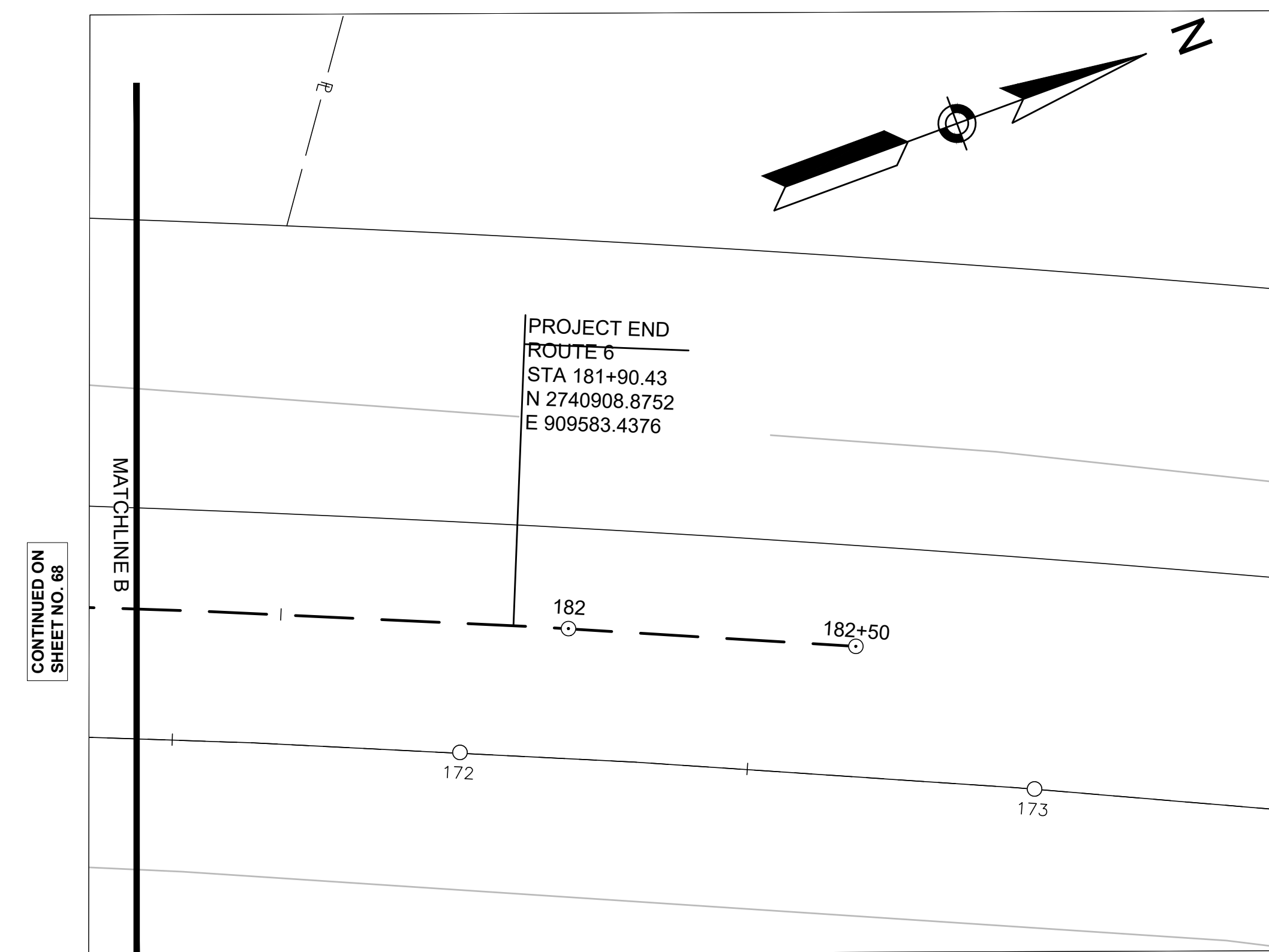
**CURB TIE PLANS  
SHEET 15 OF 15**

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C33	13°58'32"	669.00	163.18
C34	10°47'40"	99.00	18.65
C35	49°34'55"	44.00	38.08

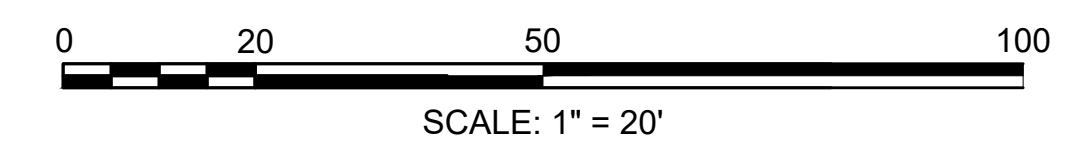


CONTINUED ON  
SHEET NO. 68

**MATCHLINE A**  
SCALE: 1"=20'



**MATCHLINE B**  
SCALE: 1"=20'



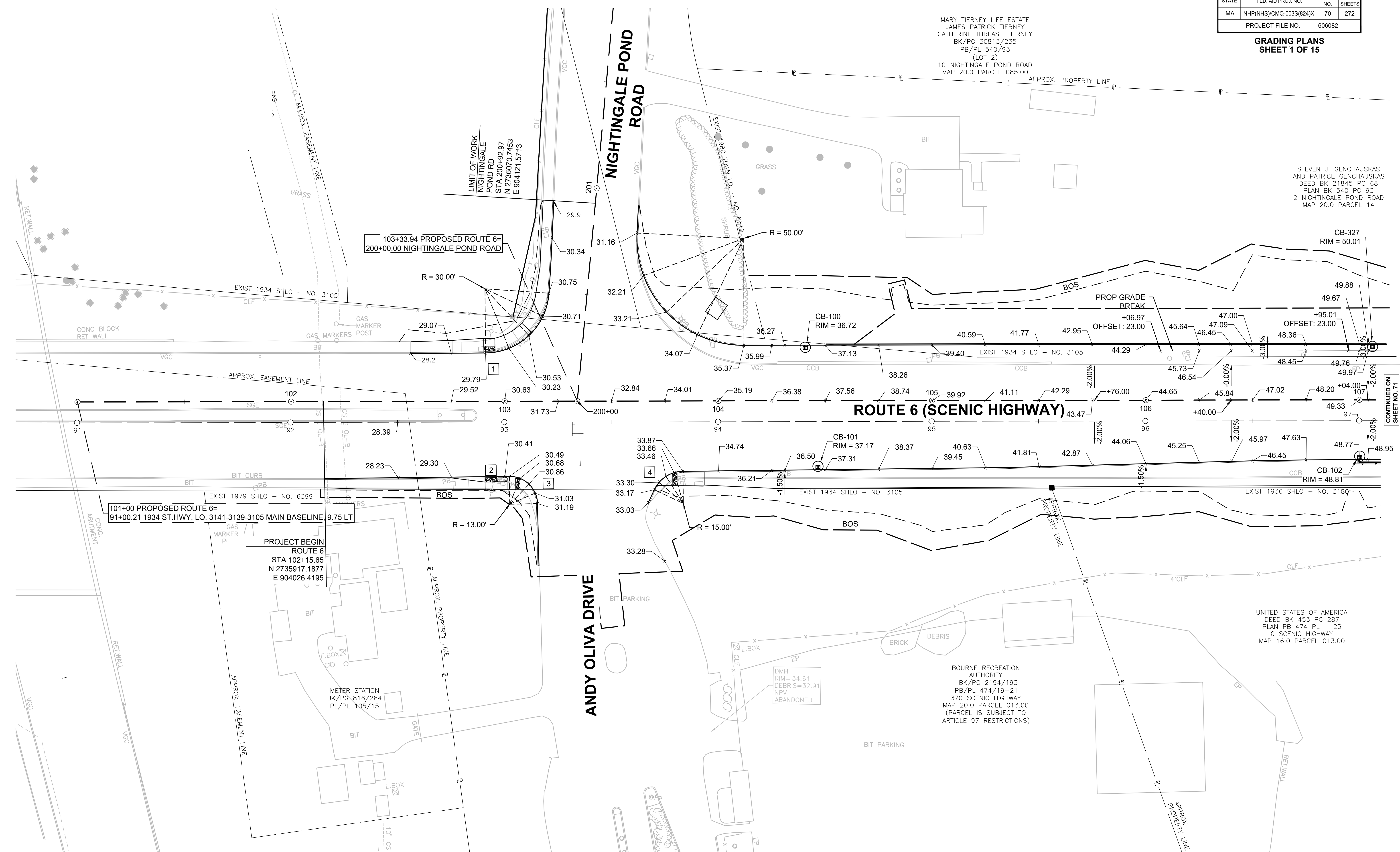
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	70	272
PROJECT FILE NO.			606082

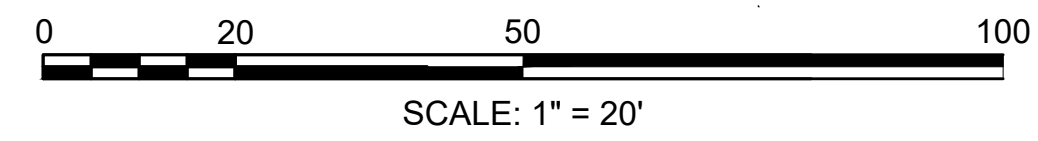
**GRADING PLANS  
SHEET 1 OF 15**

MARY TIERNEY LIFE ESTATE  
JAMES PATRICK TIERNEY  
CATHERINE THREASE TIERNEY  
BK/PG 30813/235  
PB/PL 540/93  
(LOT 2)  
10 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL 085.00

STEVEN J. GENCHAUSKAS  
AND PATRICE GENCHAUSKAS  
DEED BK 21845 PG 68  
PLAN BK 540 PG 93  
2 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL 14



- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, Pts, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.



606082\_HD10(GRADING).DWG Plotted on 17-Mar-2025 10:18 AM



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	71	272
PROJECT FILE NO.		606082	

**GRADING PLANS  
SHEET 2 OF 15**

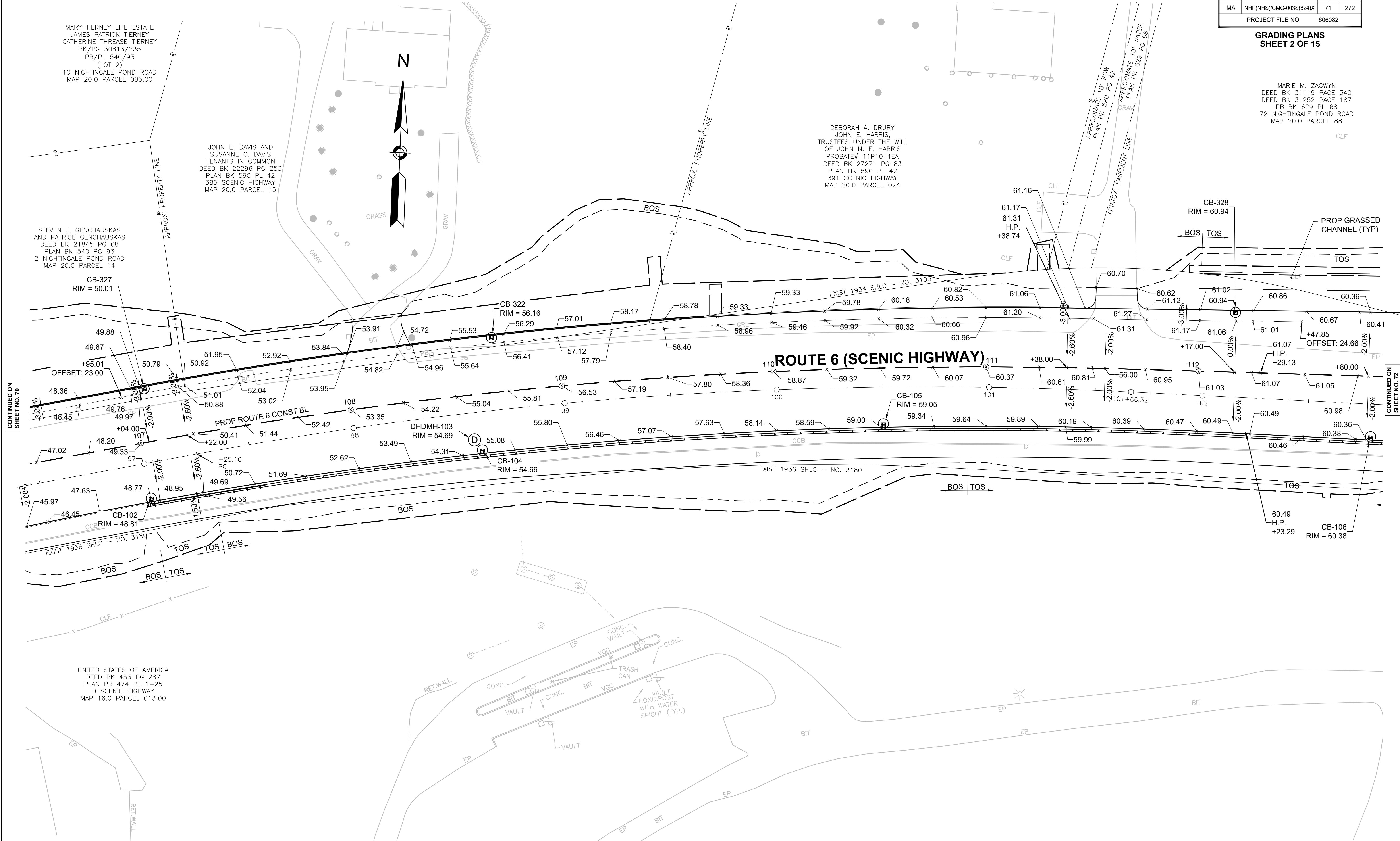
MARIE M. ZAGWYN  
DEED BK 31119 PAGE 340  
DEED BK 31252 PAGE 187  
PB BK 629 PL 68  
72 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL 88

MARY TIERNEY LIFE ESTATE  
JAMES PATRICK TIERNEY  
CATHERINE THREASE TIERNEY  
BK/PG 30813/235  
PB/PL 540/93  
(LOT 2)  
10 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL 085.00

JOHN E. DAVIS AND  
SUSANNE C. DAVIS  
TENANTS IN COMMON  
DEED BK 22296 PG 253  
PLAN BK 590 PL 42  
385 SCENIC HIGHWAY  
MAP 20.0 PARCEL 15

STEVEN J. GENCHAUSKAS  
AND PATRICE GENCHAUSKAS  
DEED BK 21845 PG 68  
PLAN BK 540 PG 93  
2 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL 14

DEBORAH A. DRURY  
JOHN F. HARRIS,  
TRUSTEES UNDER THE WILL  
OF JOHN N. F. HARRIS  
PROBATE# 11P1014EA  
DEED BK 27271 PG 83  
PLAN BK 590 PL 42  
391 SCENIC HIGHWAY  
MAP 20.0 PARCEL 024

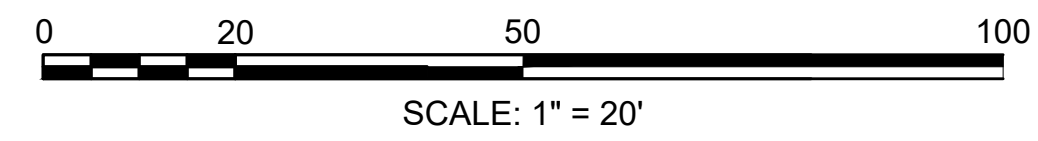


CONTINUED ON  
SHEET NO. 70

CONTINUED ON  
SHEET NO. 72

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

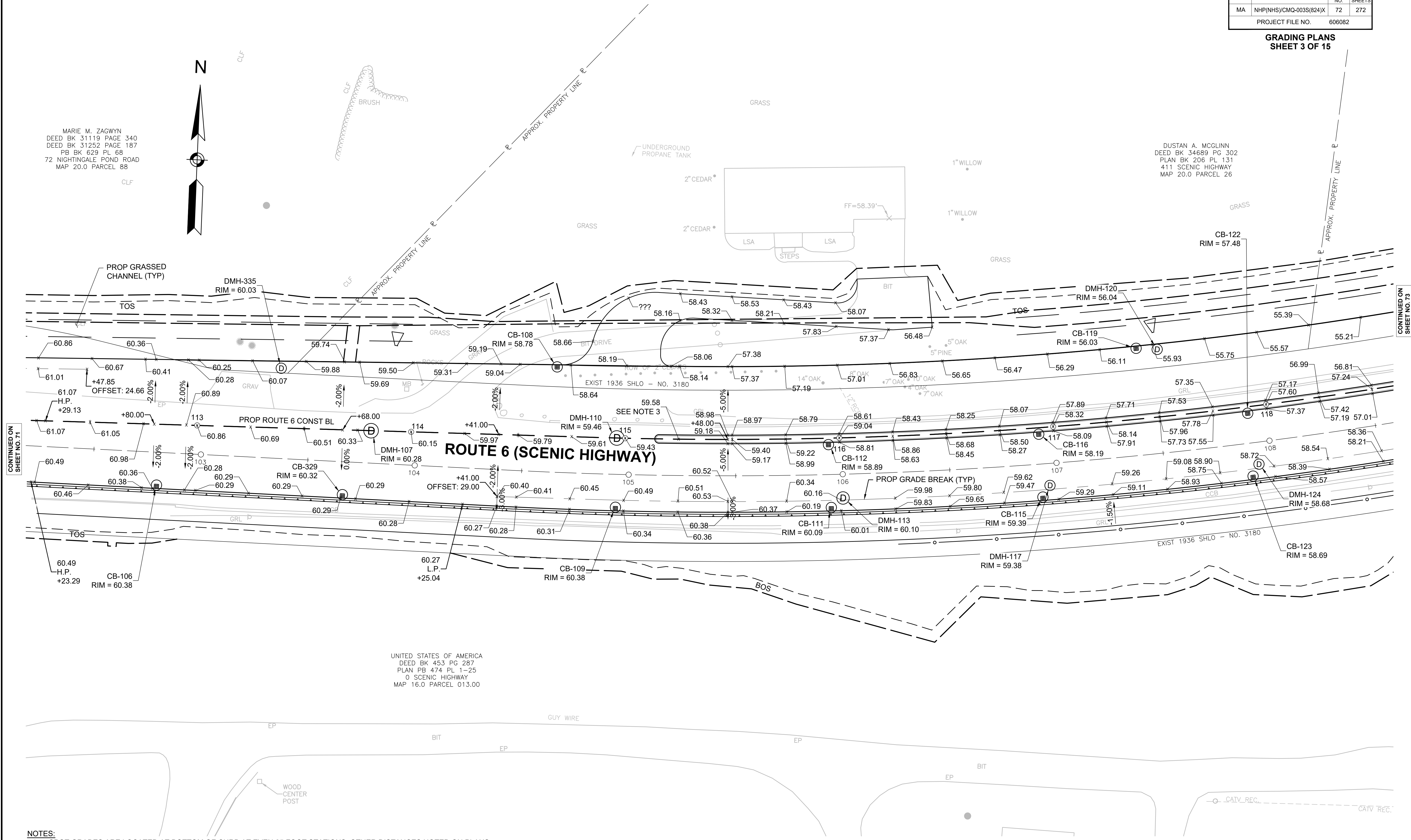
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	72	272
PROJECT FILE NO.		606082	

**GRADING PLANS  
SHEET 3 OF 15**

MARIE M. ZAGWYN  
DEED BK 31119 PAGE 340  
DEED BK 31252 PAGE 187  
PB BK 629 PL 68  
72 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL 88

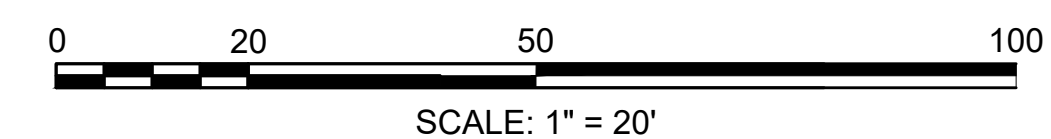


DUSTAN A. MCCLINN  
DEED BK 34689 PG 302  
PLAN BK 206 PL 131  
411 SCENIC HIGHWAY  
MAP 20.0 PARCEL 26



UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. ELEVATIONS SHOWN ON THE BASELINE WITHIN THE CEMENT CONCRETE MEDIAN SECTIONS ARE LABELING THE TOP OF MEDIAN. REFER TO PROFILE SHEETS 43-54 FOR THEORETICAL PROFILE ELEVATIONS AT THESE LOCATIONS.
  4. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.



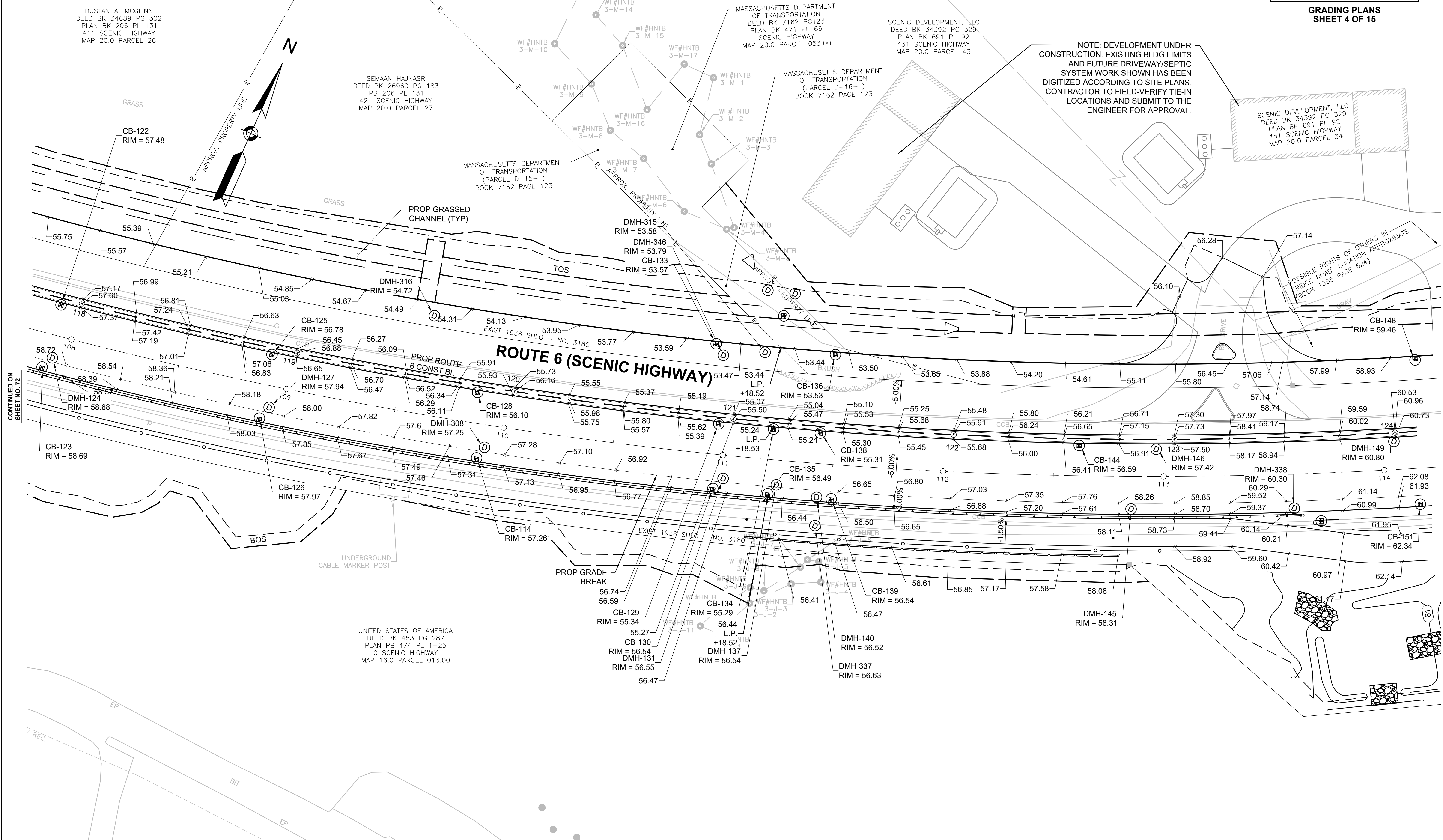
CONTINUED ON SHEET NO. 71

CONTINUED ON SHEET NO. 73

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	73	272
PROJECT FILE NO.			606082

**GRADING PLANS  
SHEET 4 OF 15**



NOTE: DEVELOPMENT UNDER CONSTRUCTION. EXISTING BLDG LIMITS AND FUTURE DRIVEWAY/SEPTIC SYSTEM WORK SHOWN HAS BEEN DIGITIZED ACCORDING TO SITE PLANS. CONTRACTOR TO FIELD-VERIFY TIE-IN LOCATIONS AND SUBMIT TO THE ENGINEER FOR APPROVAL.

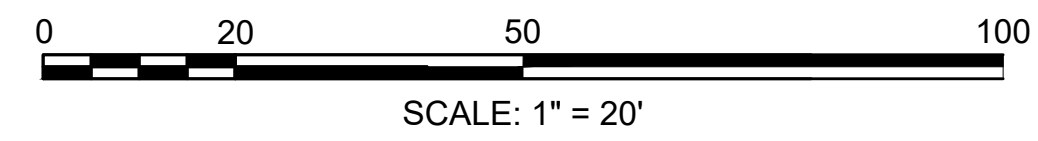
SCENIC DEVELOPMENT, LLC  
DEED BK 34392 PG 329  
PLAN BK 691 PL 92  
451 SCENIC HIGHWAY  
MAP 20.0 PARCEL 34

POSSIBLE RIGHTS OF OTHERS IN "BRIDGE ROAD" LOCATION APPROXIMATE (BOOK 1385 PAGE 624)

CONTINUED ON SHEET NO. 72

CONTINUED ON SHEET NO. 74

- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.



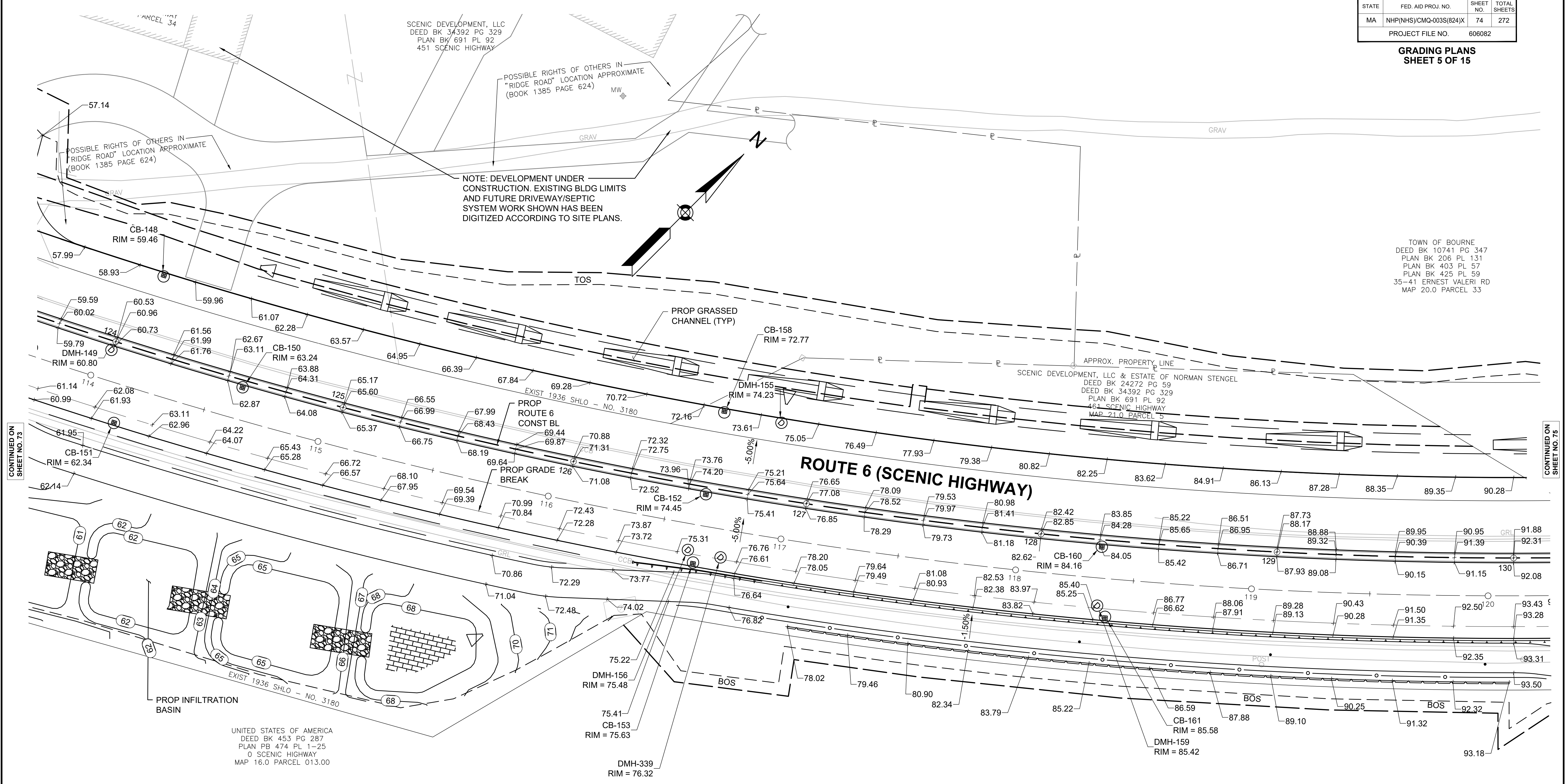


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	74	272
PROJECT FILE NO.			606082

**GRADING PLANS  
SHEET 5 OF 15**

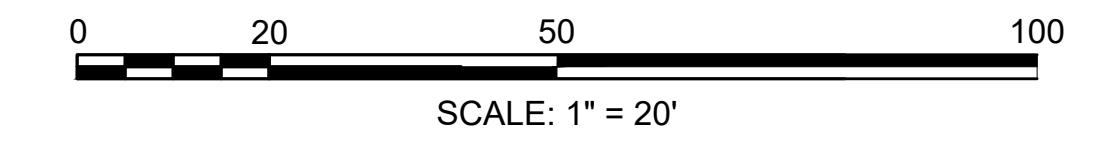
TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33



CONTINUED ON  
SHEET NO. 73

CONTINUED ON  
SHEET NO. 75

- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.





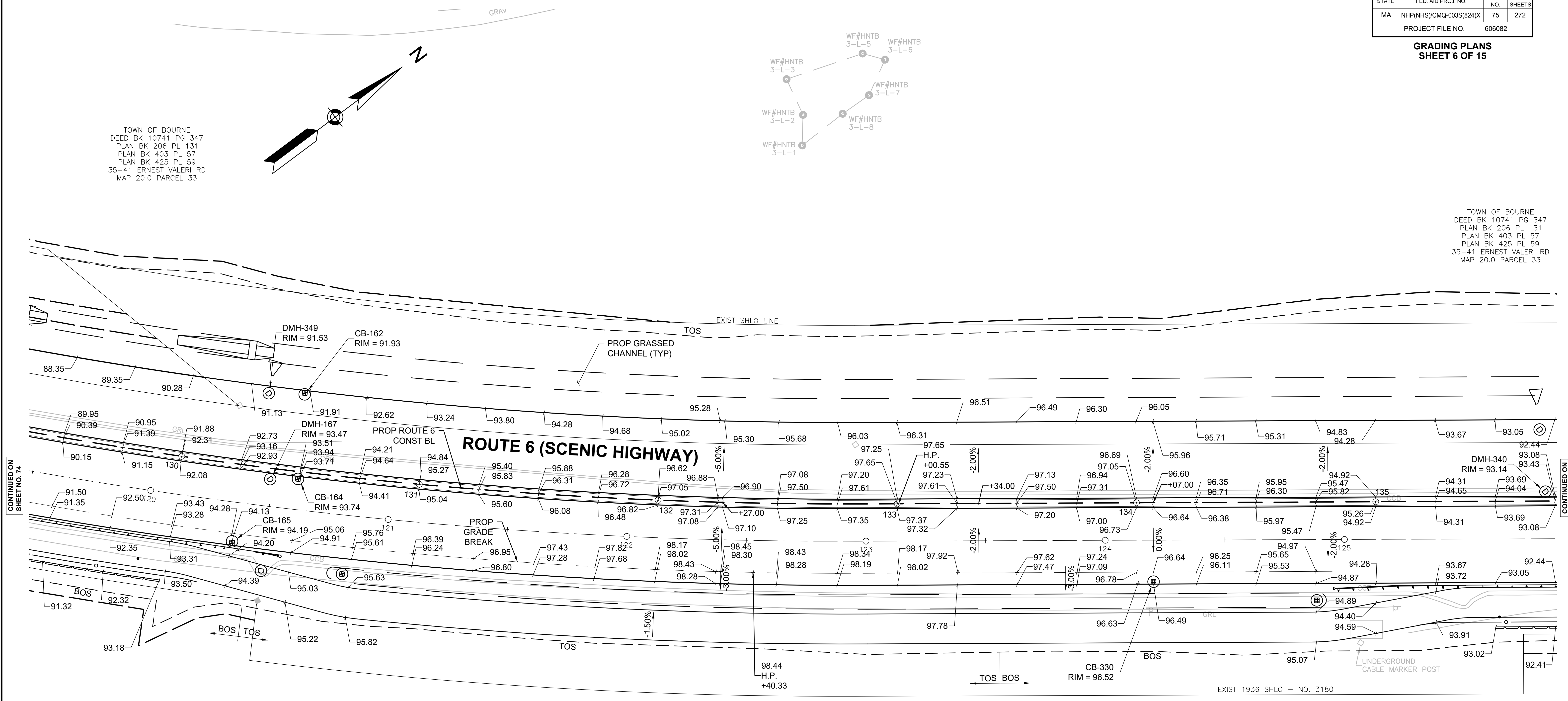
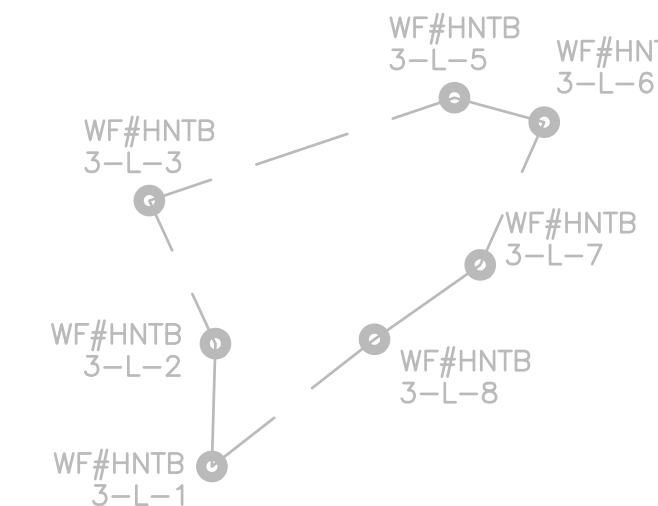
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	75	272
PROJECT FILE NO.		606082	

**GRADING PLANS  
SHEET 6 OF 15**

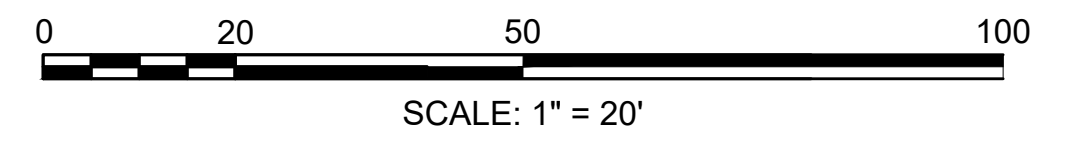
TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33



UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

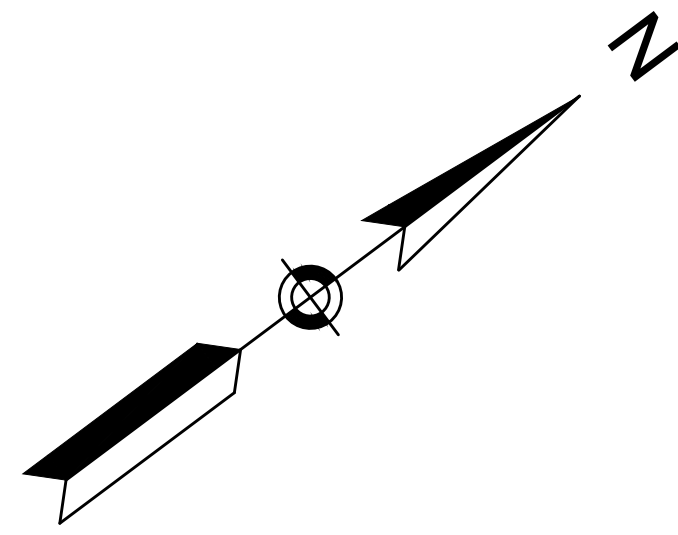
- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.



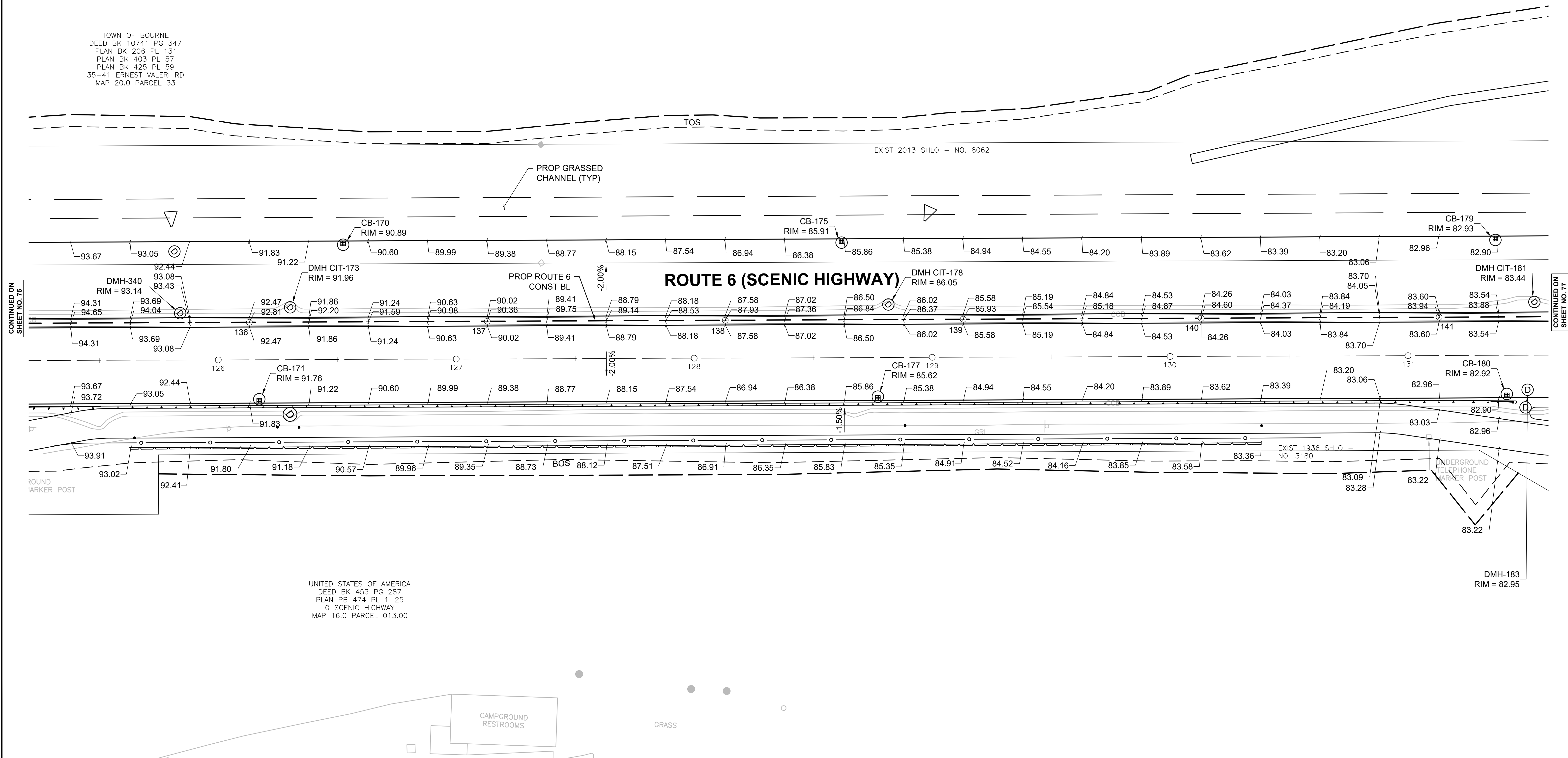
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	76	272
PROJECT FILE NO.		606082	

**GRADING PLANS  
SHEET 7 OF 15**



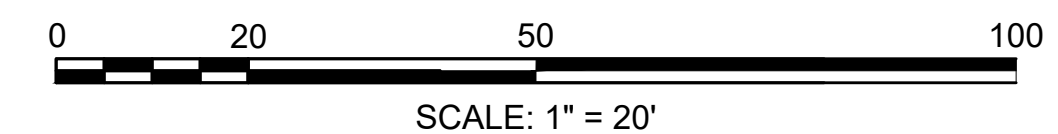
TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33



UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

**NOTES:**

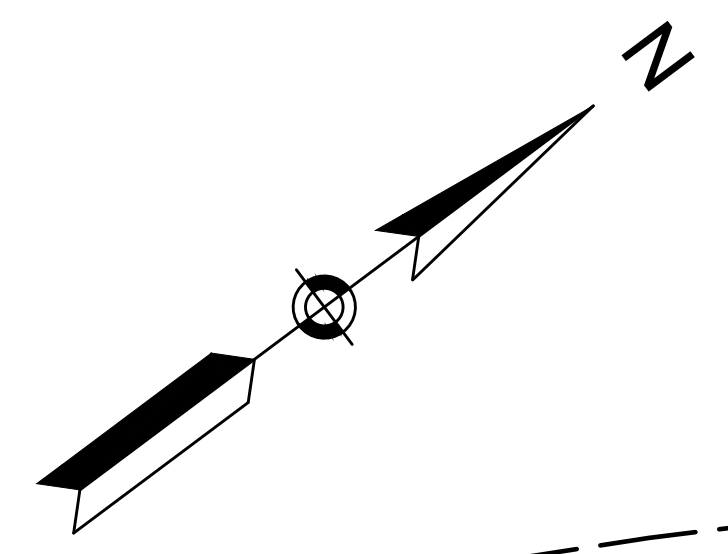
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	77	272
PROJECT FILE NO.		606082	

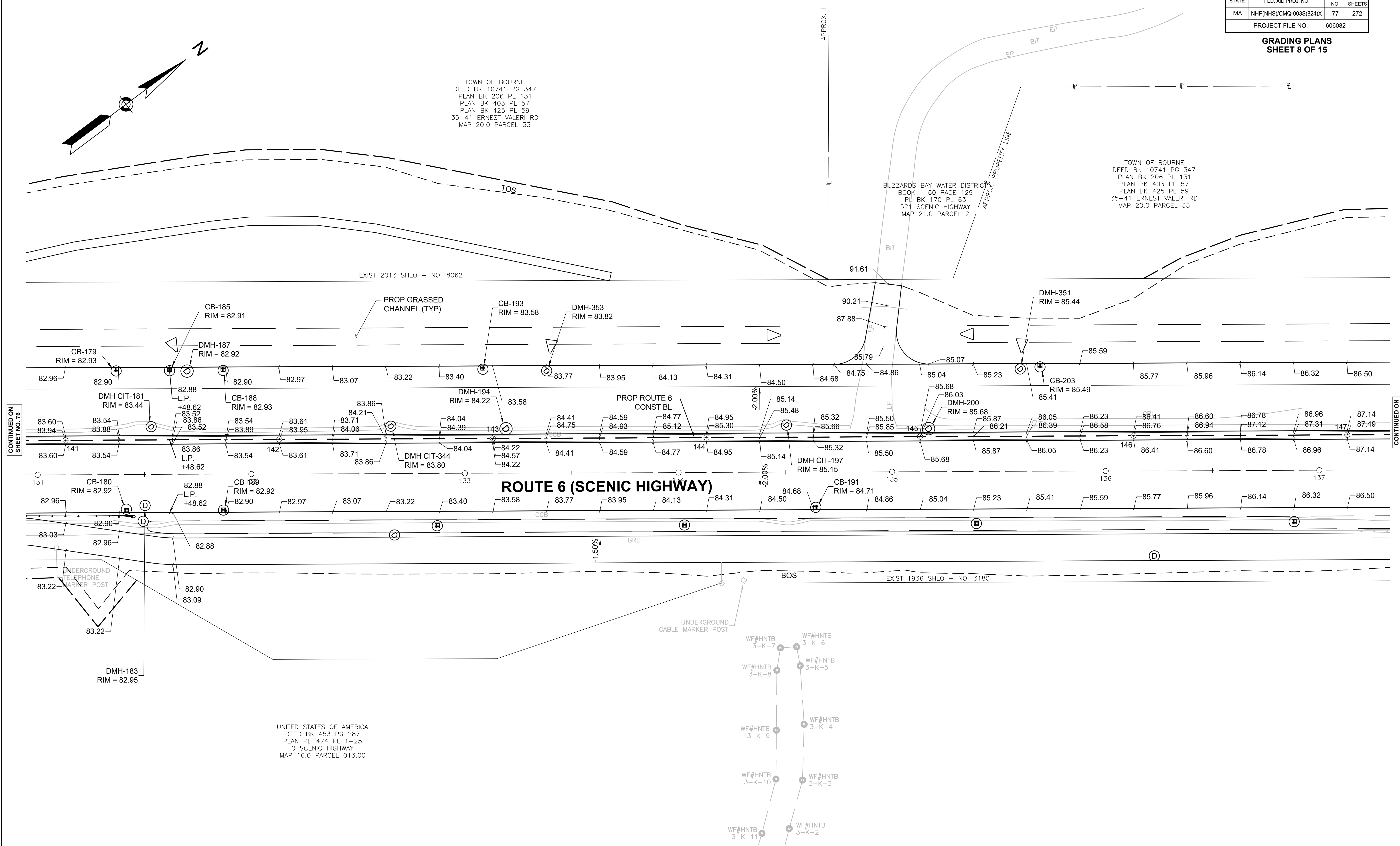
**GRADING PLANS  
SHEET 8 OF 15**



TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

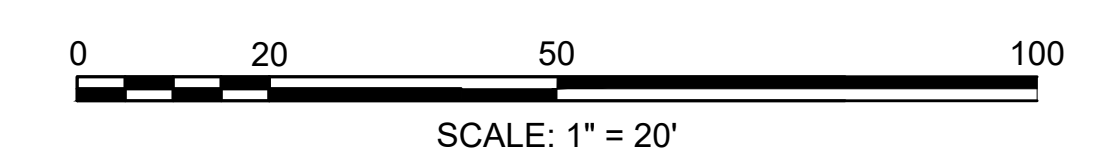
BUZZARDS BAY WATER DISTRICT  
BOOK 1160 PAGE 129  
PL BK 170 PL 63  
521 SCENIC HIGHWAY  
MAP 21.0 PARCEL 2

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33



UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.



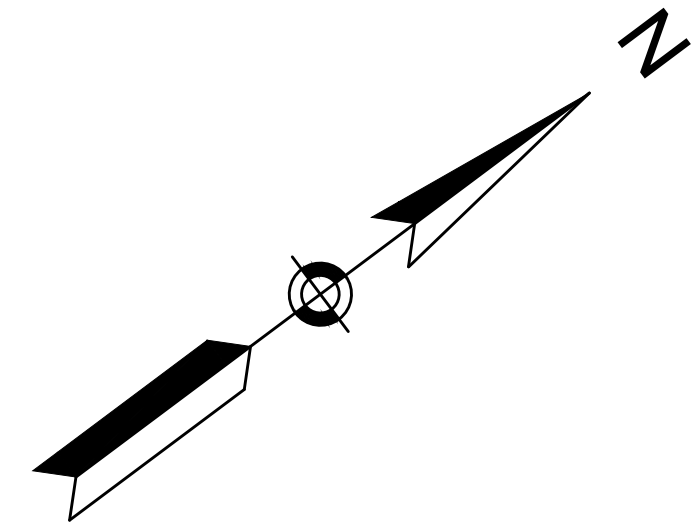
CONTINUED ON  
SHEET NO. 76

CONTINUED ON  
SHEET NO. 78

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

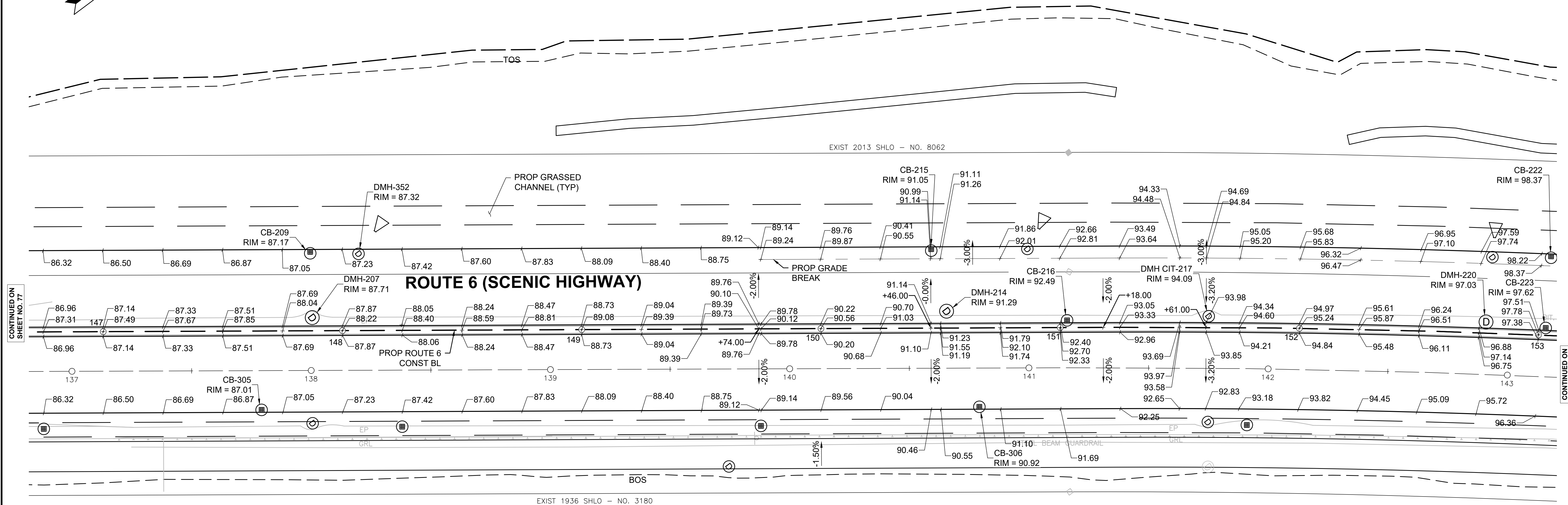
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	78	272
PROJECT FILE NO.		606082	

**GRADING PLANS  
SHEET 9 OF 15**



AREA U/C

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

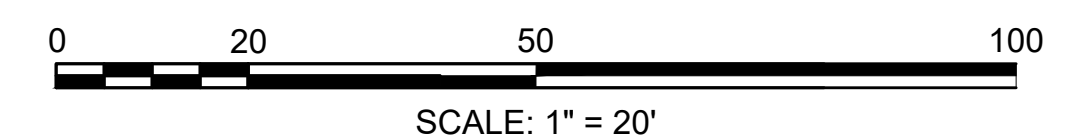


CONTINUED ON  
SHEET NO. 77

CONTINUED ON  
SHEET NO. 79

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.



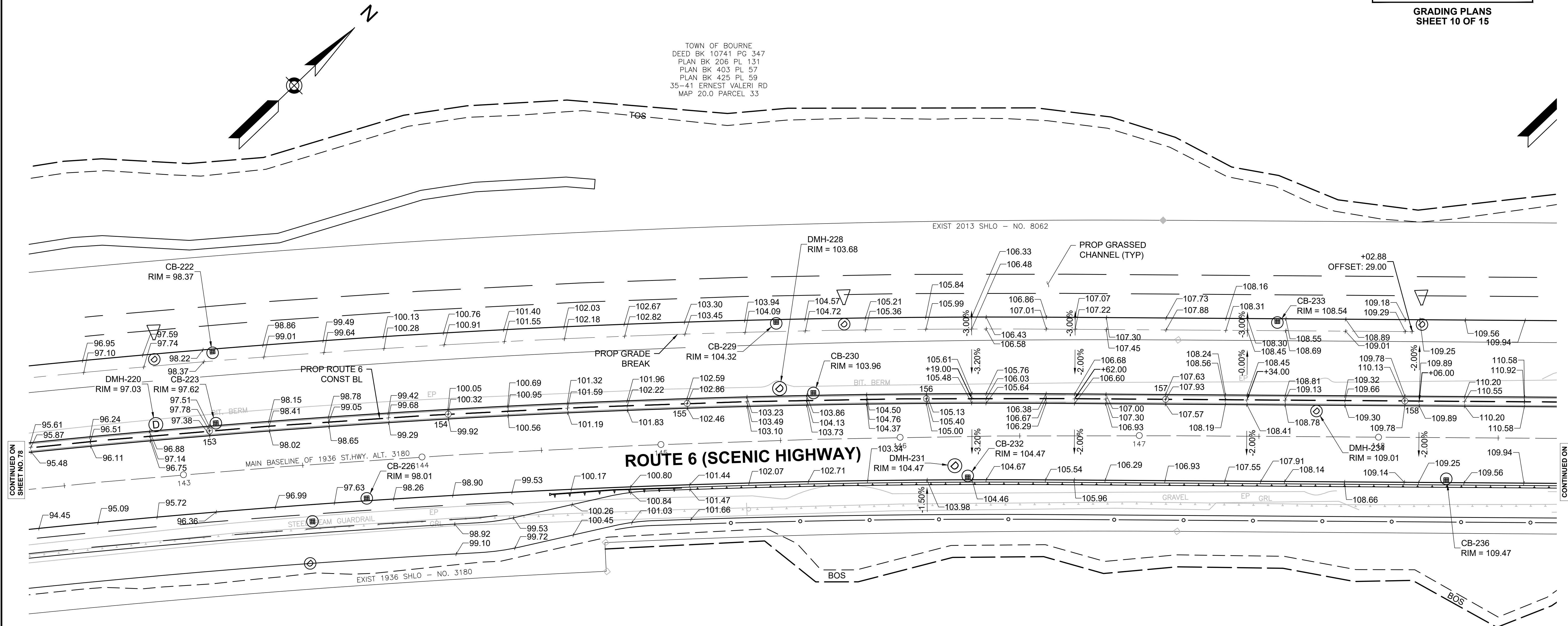


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	79	272
PROJECT FILE NO.		606082	

**GRADING PLANS  
SHEET 10 OF 15**

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

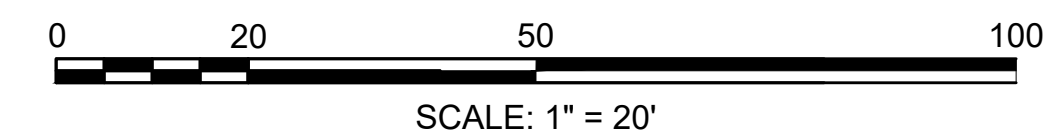


**ROUTE 6 (SCENIC HIGHWAY)**

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

**NOTES:**

1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.



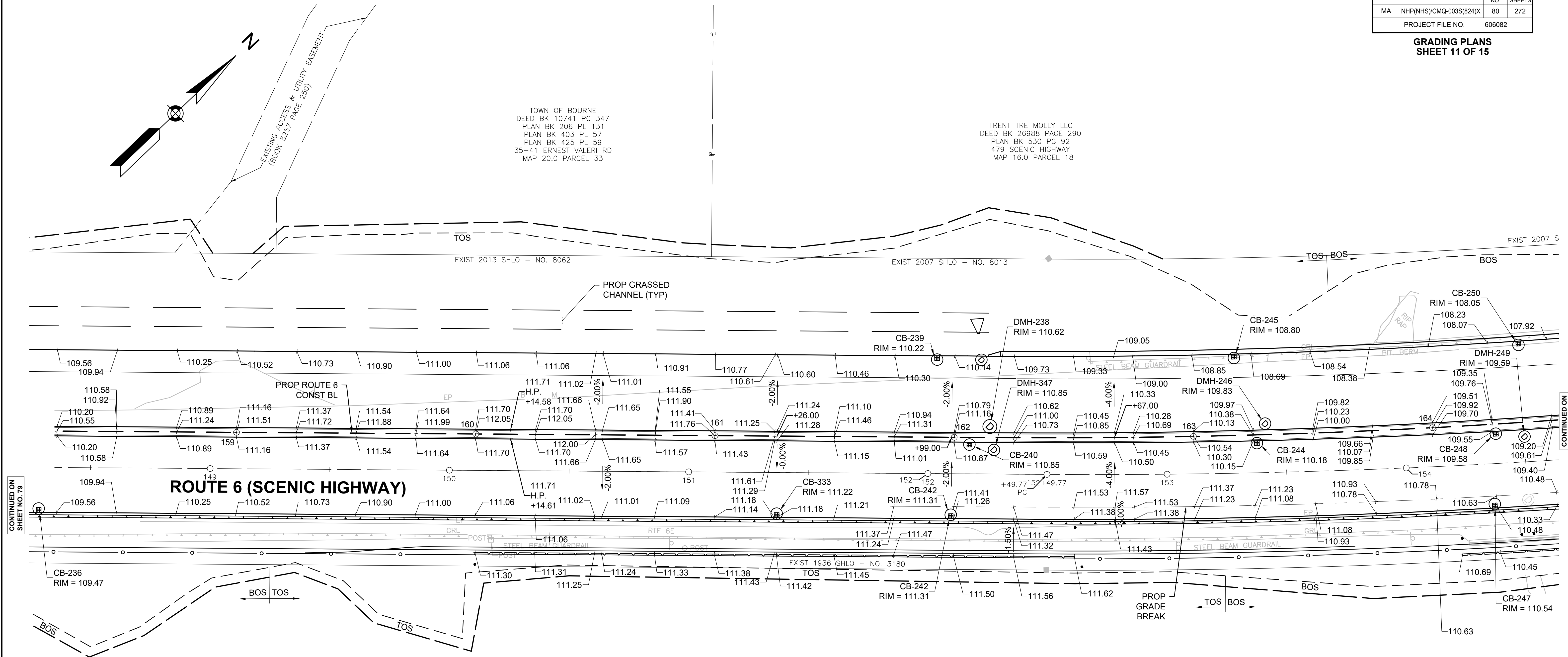
CONTINUED ON  
SHEET NO. 78

CONTINUED ON  
SHEET NO. 80

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	80	272
PROJECT FILE NO.			606082

**GRADING PLANS  
SHEET 11 OF 15**

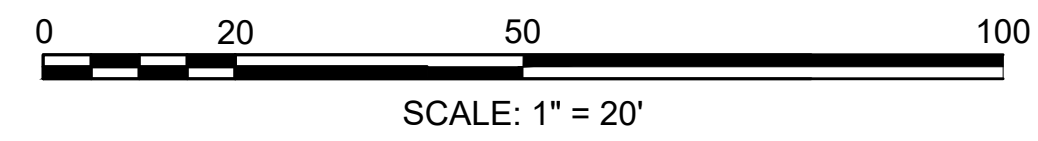


TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

TRENT TRE MOLLY LLC  
DEED BK 26988 PAGE 290  
PLAN BK 530 PG 92  
479 SCENIC HIGHWAY  
MAP 16.0 PARCEL 18

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT P.Cs, P.Ts, AND P.R.Cs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.



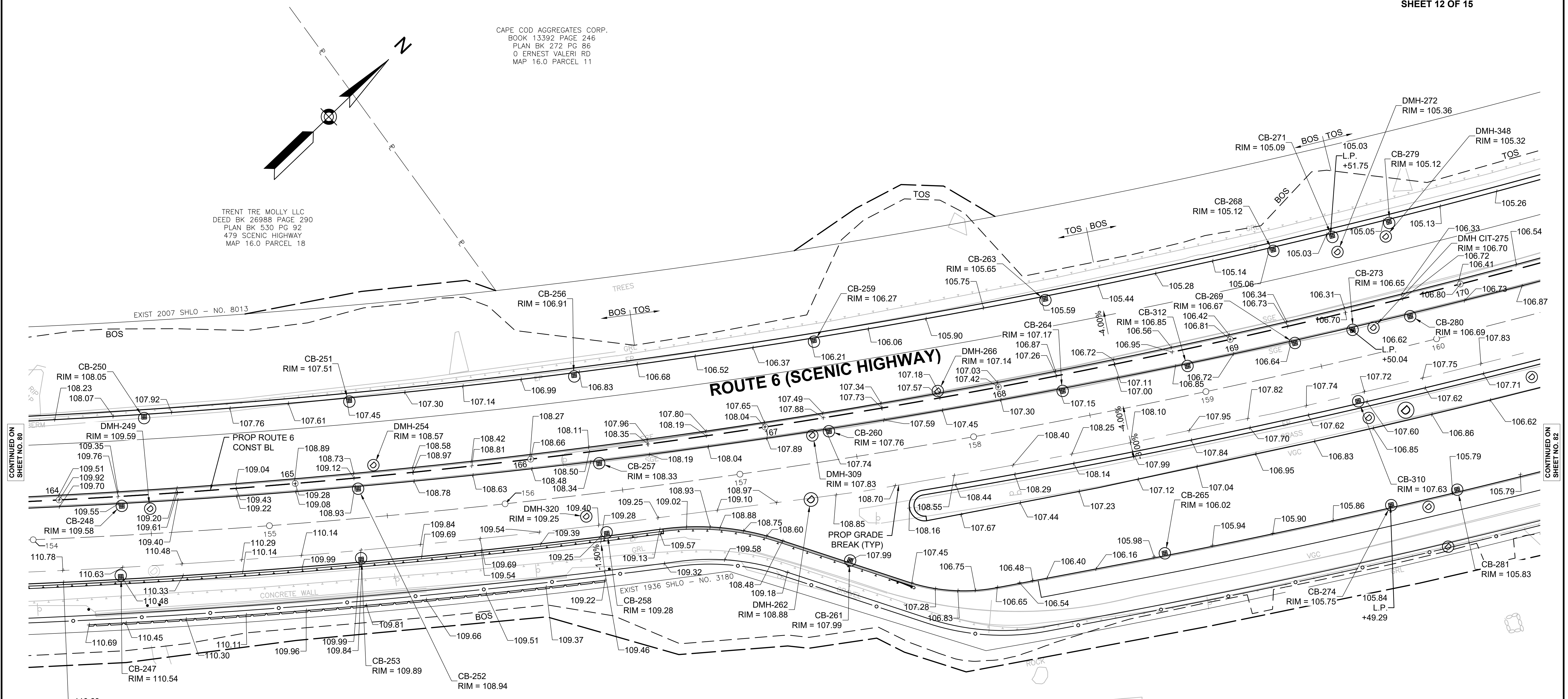
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	81	272
PROJECT FILE NO.		606082	

**GRADING PLANS  
SHEET 12 OF 15**

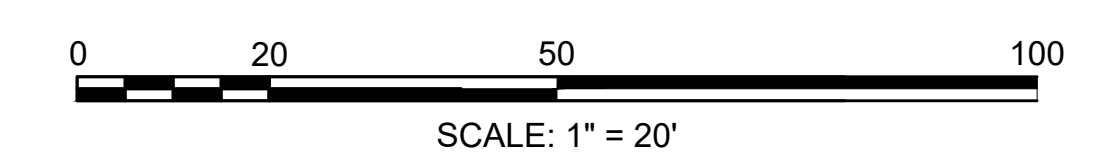
CAPE COD AGGREGATES CORP.  
BOOK 13392 PAGE 246  
PLAN BK 272 PG 86  
O ERNEST VALERI RD  
MAP 16.0 PARCEL 11

TRENT TRE MOLLY LLC  
DEED BK 26988 PAGE 290  
PLAN BK 530 PG 92  
479 SCENIC HIGHWAY  
MAP 16.0 PARCEL 18



UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.

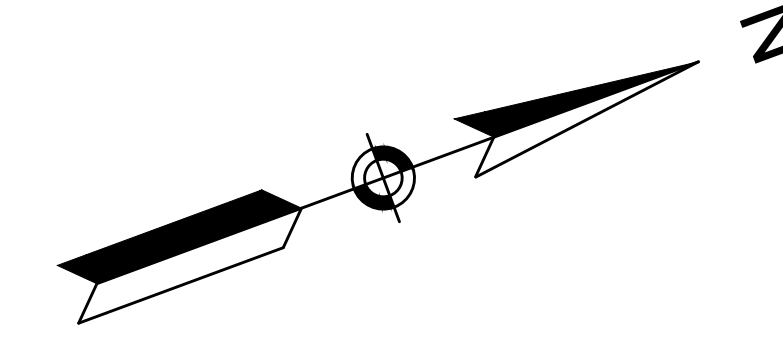




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	82	272
PROJECT FILE NO.		606082	

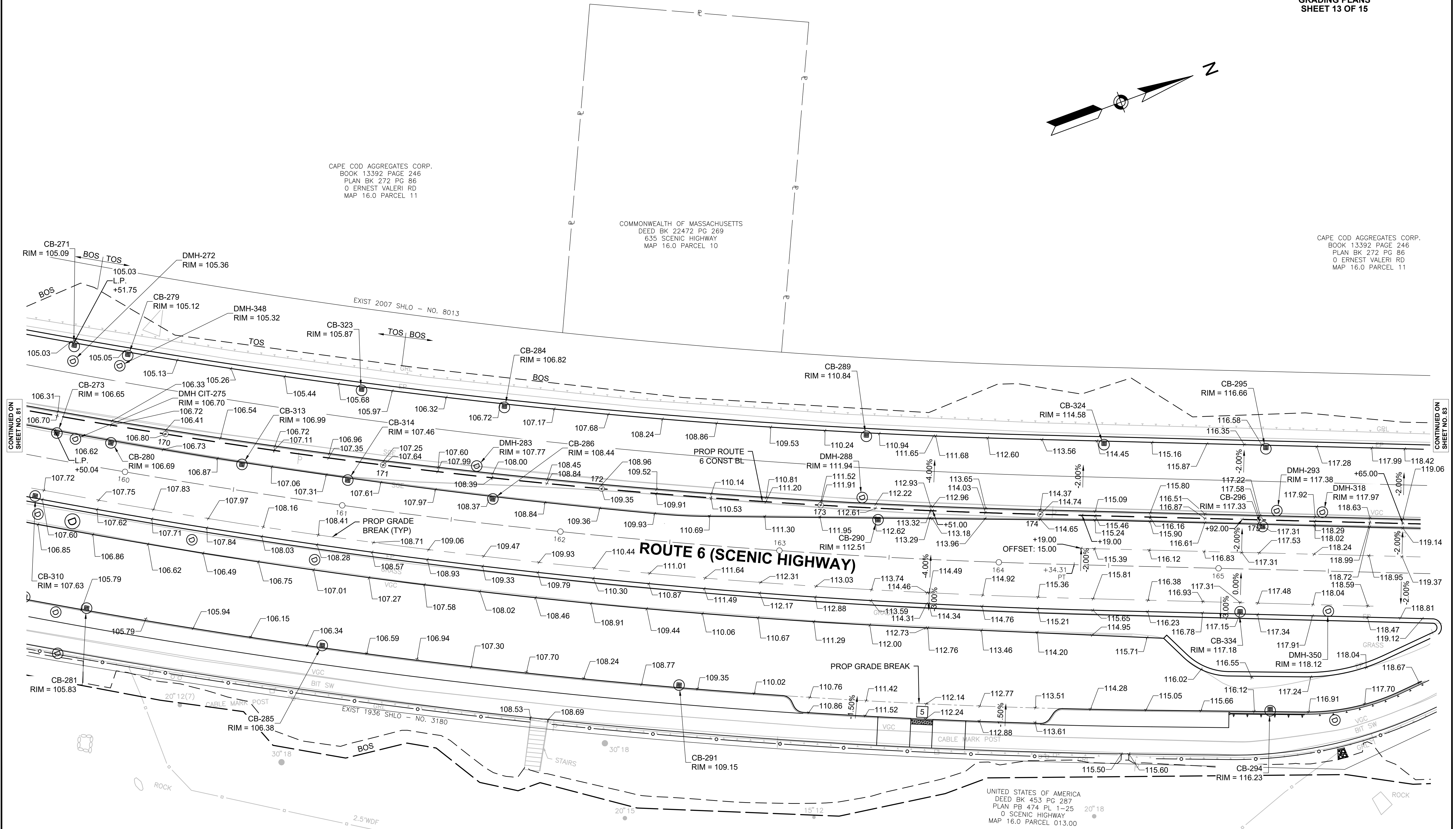
**GRADING PLANS  
SHEET 13 OF 15**



CAPE COD AGGREGATES CORP.  
BOOK 13392 PAGE 246  
PLAN BK 272 PG 86  
0 ERNEST VALERI RD  
MAP 16.0 PARCEL 11

COMMONWEALTH OF MASSACHUSETTS  
DEED BK 22472 PG 269  
635 SCENIC HIGHWAY  
MAP 16.0 PARCEL 10

CAPE COD AGGREGATES CORP.  
BOOK 13392 PAGE 246  
PLAN BK 272 PG 86  
0 ERNEST VALERI RD  
MAP 16.0 PARCEL 11

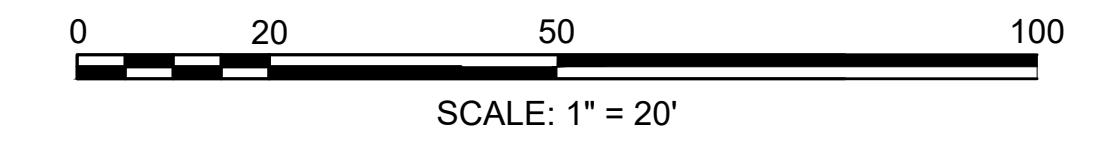


CONTINUED ON  
SHEET NO. 81

CONTINUED ON  
SHEET NO. 83

- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

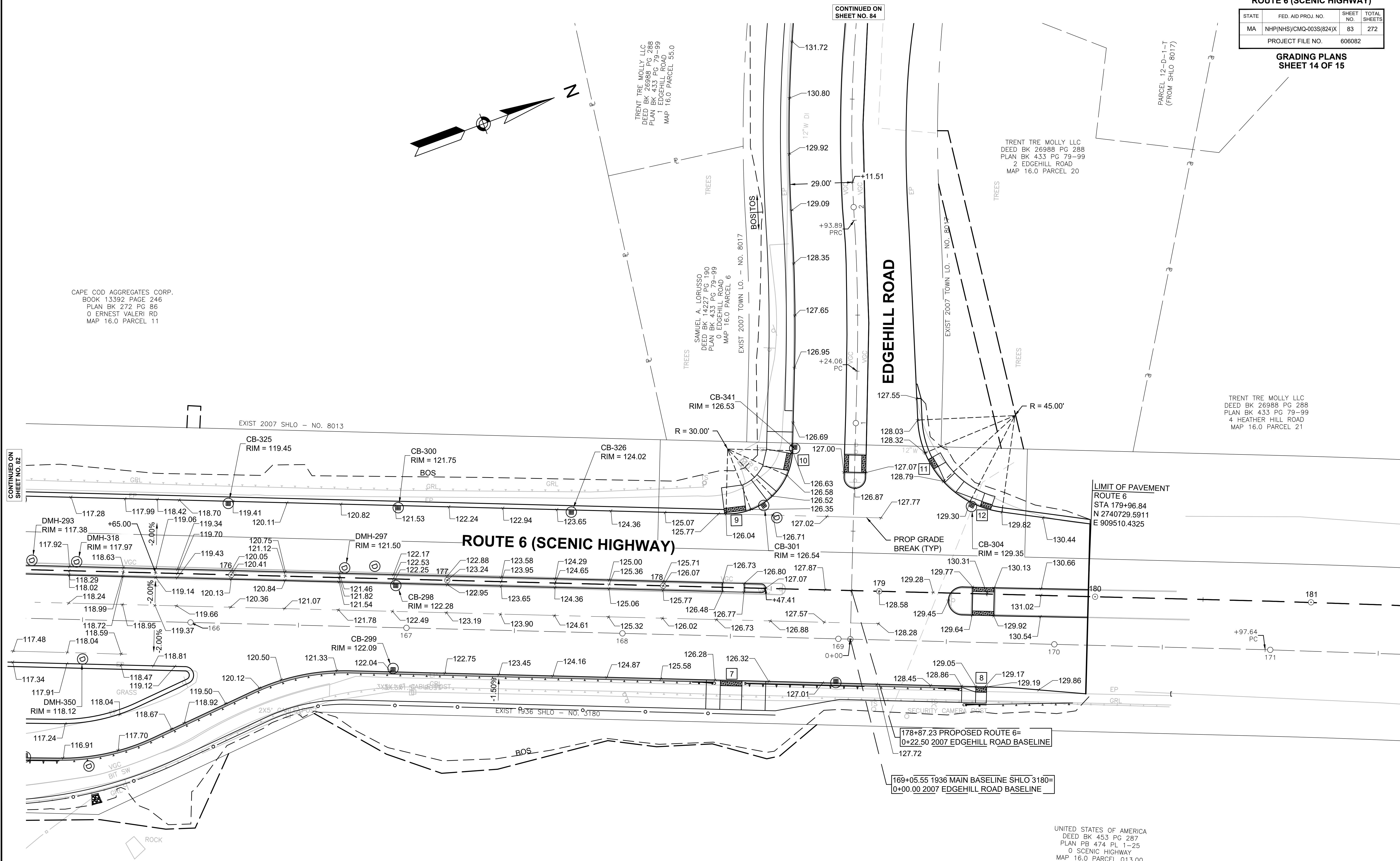




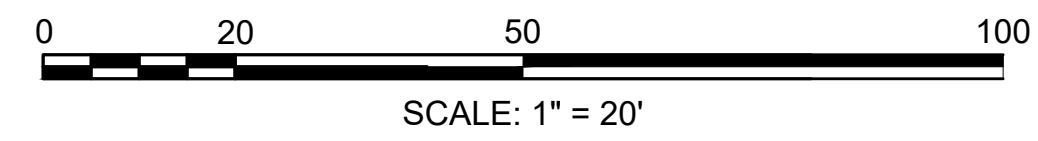
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	83	272
PROJECT FILE NO.		606082	

**GRADING PLANS  
SHEET 14 OF 15**



- NOTES:**
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
  2. SPOT GRADES FOR THE CURB PROVIDED AT PCs, PTs, AND PRCs. CORRESPONDING STATIONS AND OFFSETS FOR CURB CAN BE FOUND ON THE CURB TIE PLANS.
  3. RIM ELEVATIONS FOR DRAINAGE STRUCTURES ARE LOCATED AT THE CENTER OF THE STRUCTURE.

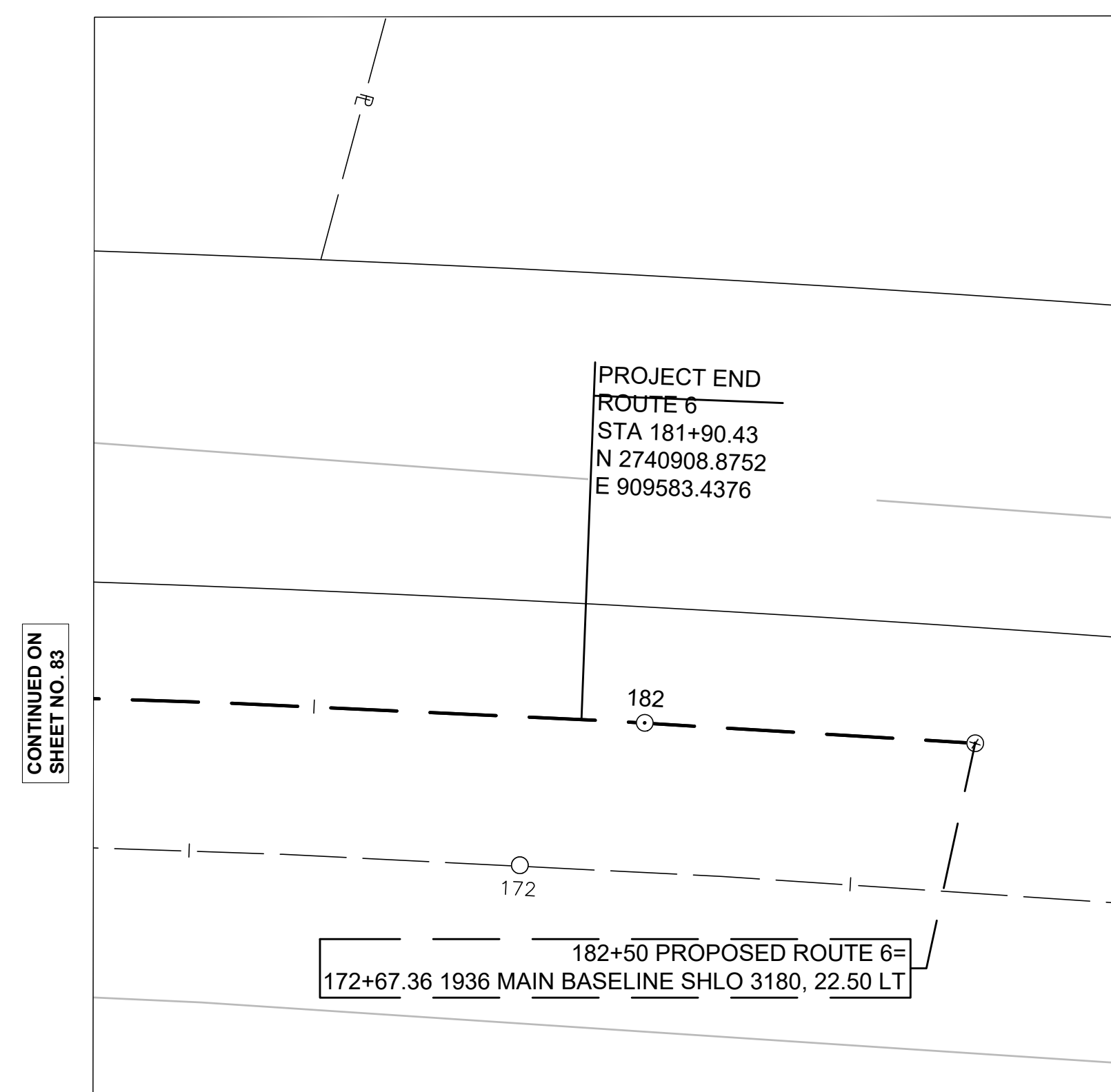
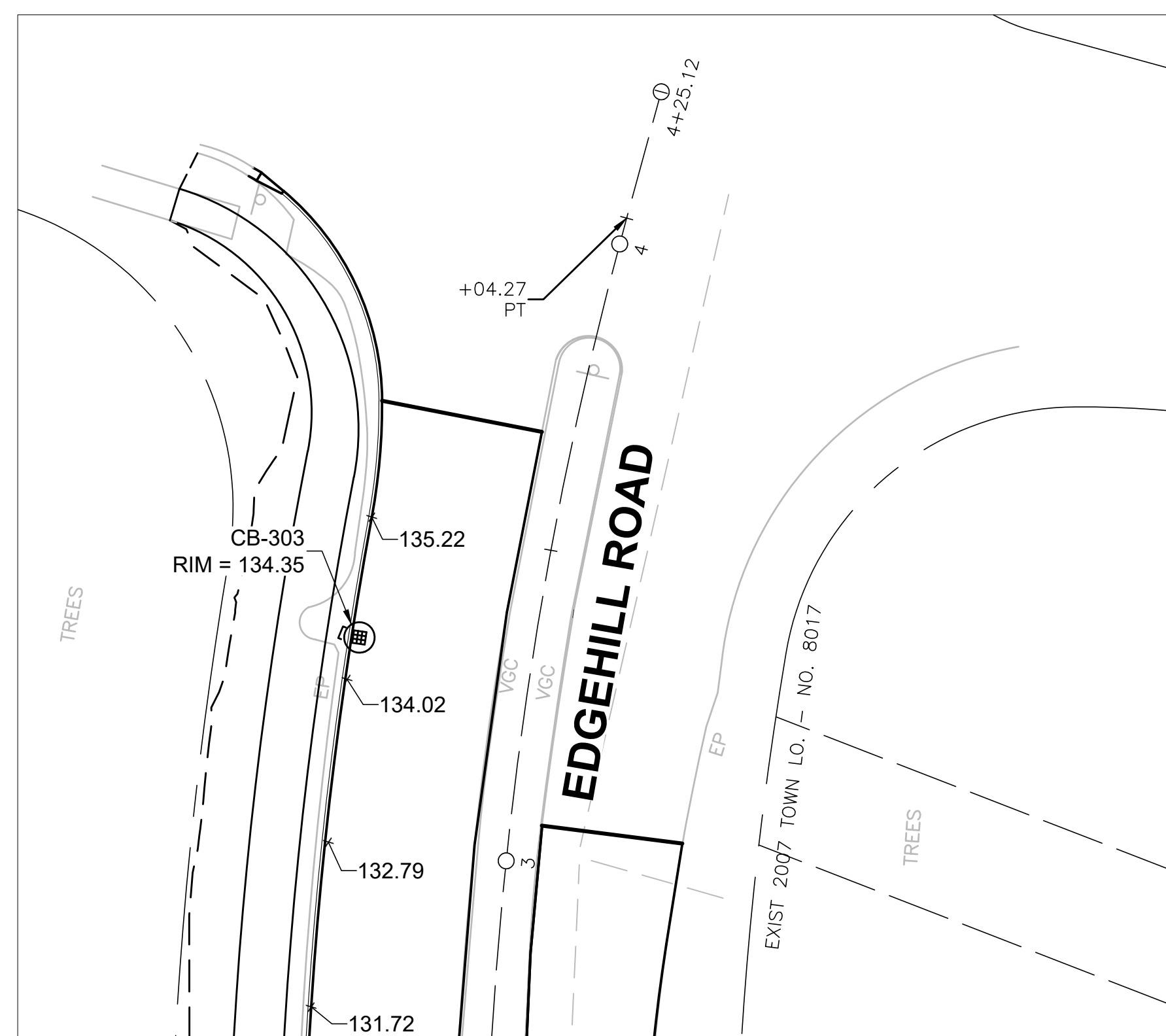


UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

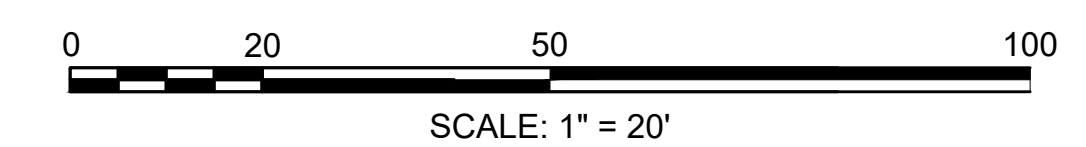
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	84	272
PROJECT FILE NO.		606082	

**GRADING PLANS  
SHEET 15 OF 15**



**NOTES:**

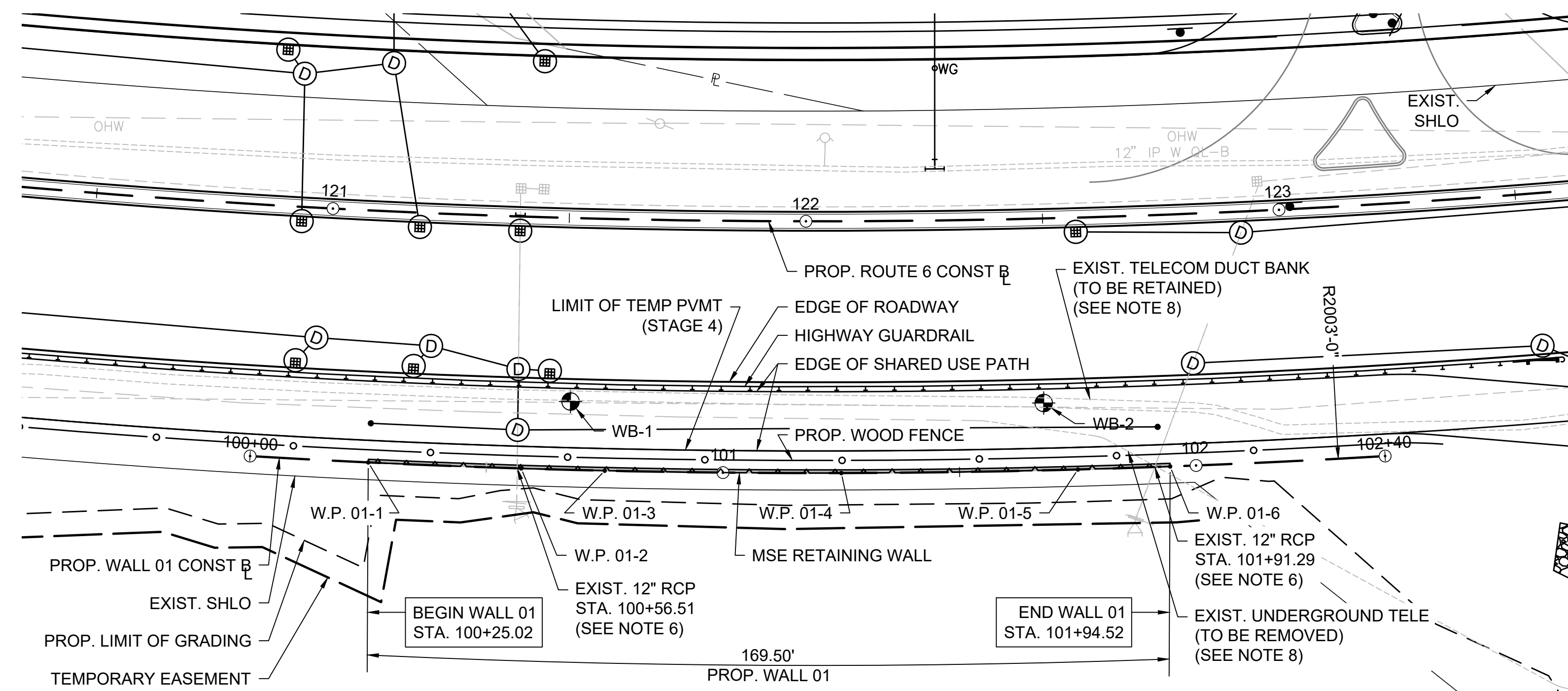
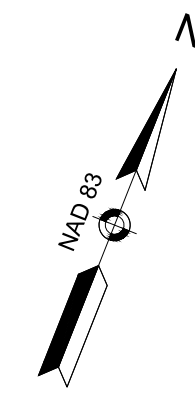
1. SPOT GRADES ARE LOCATED AT BOTTOM OF CURB AT EVEN 25 FOOT STATIONS. OTHER DISTANCES NOTED ON PLANS.
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**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

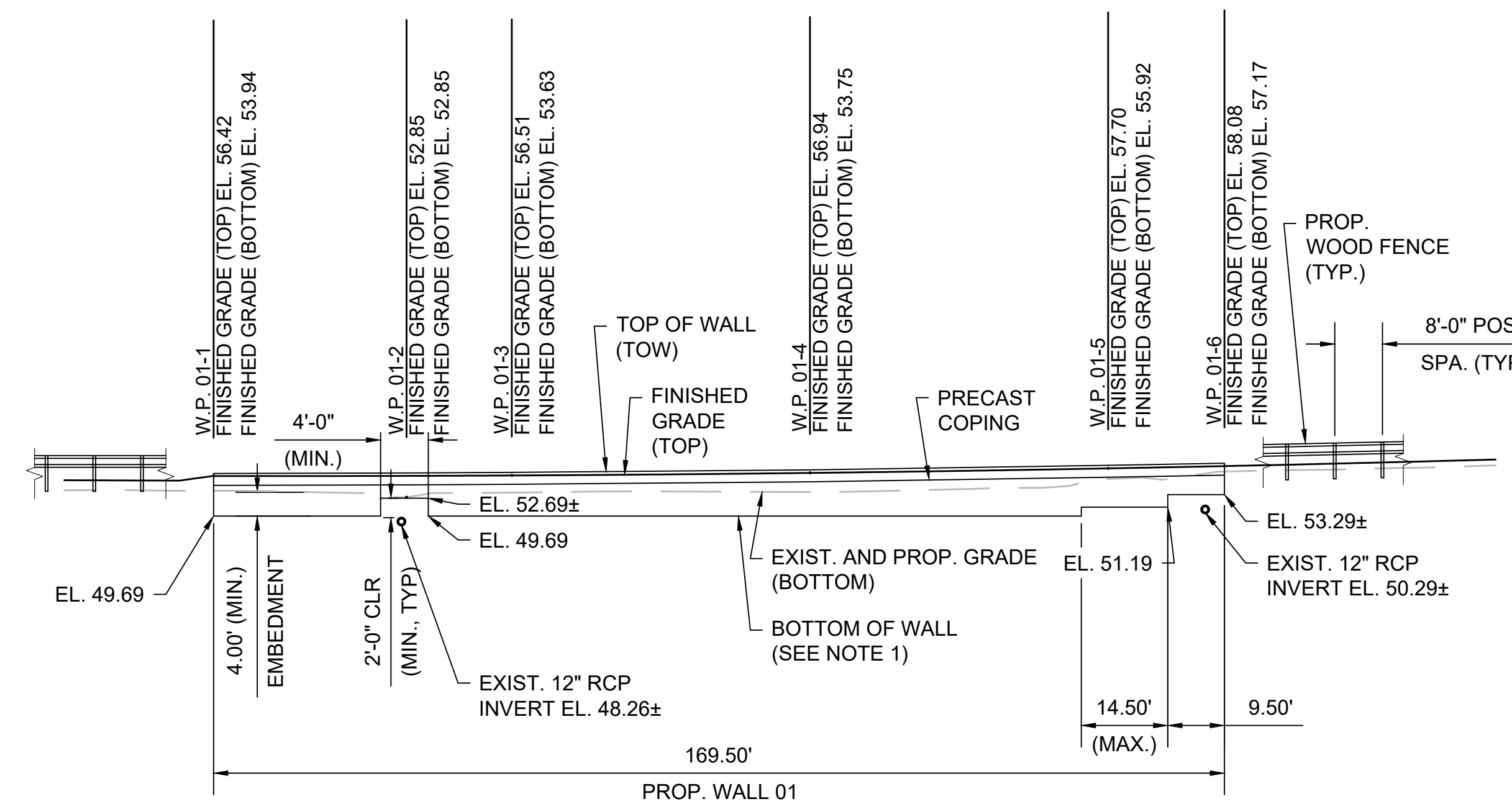
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	85	272
PROJECT FILE NO.		606082	

**RETAINING WALL PLANS - WALL 01**



**PROP. WALL 01 PLAN**

SCALE: 1" = 20'



**PROP. WALL 01 ELEVATION**

SCALE: 1" = 20'

**LEGEND:**

⊕ - LOCATION OF BORINGS

**NOTES:**

- BOTTOM OF WALL ELEVATIONS AND STEP LOCATIONS MAY BE REVISED AS REQUIRED BY THE WALL MANUFACTURER PROVIDED THE MINIMUM EMBEDMENT IS ACHIEVED. HOWEVER, ALL REVISIONS ARE SUBJECT TO REVIEW AND APPROVAL OF THE ENGINEER.
- DENSE COMPACTED GRAVEL BORROW SHALL BE PROVIDED IN LOCATIONS SHOWN WHERE THE MINIMUM EMBEDMENT DEPTH CANNOT BE MET. PLACEMENT AND COMPACTION SHALL MEET MASSDOT SPECIFICATIONS. THE DEPTH OF THIS AGGREGATE SHALL BE EQUAL TO OR EXCEED THAT REQUIRED TO PROVIDE THE 4.00' MINIMUM EMBEDMENT DEPTH AS THE SUM OF THE EMBEDMENT OF THE WALL AND THE THICKNESS OF THE AGGREGATE PLACED BELOW, NOT INCLUSIVE OF THE LEVELING PAD.
- PROPOSED WALL SHALL BE MANUFACTURER-DESIGNED PROPRIETARY WALL SYSTEM. WALLS SHALL BE DESIGNED PER AASHTO LRFD FOR HL-93 LIVE LOAD FOR SUCH LOADS THAT OCCUR DURING CONSTRUCTION STAGE 4. FOR ADDITIONAL REQUIREMENTS, SEE SPECIAL PROVISION 996.3.
- EXPOSED FACE OF PROPOSED WALL SHALL HAVE AN ASHLAR FORM LINER FINISH.
- WORK POINTS ARE PROVIDED AT FACE OF WALL.
- THE CONTRACTOR SHALL PROVIDE 2 FT CLEAR FOR DRAINAGE PIPES CROSSING UNDER PROPOSED WALL.
- THE CONTRACTOR SHALL UTILIZE A PENETRATION DETAIL FOR UTILITIES PENETRATING THROUGH PROPOSED WALL. PENETRATION DETAILS SHALL MEET PROPOSED WALL MANUFACTURER'S REQUIREMENTS. SEE SHEET 91 OF 272 FOR PROPOSED PENETRATION DETAIL.
- FOR DISPOSITION OF EXISTING UTILITIES, SEE DRAINAGE AND UTILITY PLANS.
- PROVIDE TEMPORARY EARTH SUPPORT FOR EXISTING UTILITIES AS REQUIRED FOR CONSTRUCTION.
- FOR DISPOSITION OF EXISTING TRAFFIC SIGNS, SEE TRAFFIC PLANS.

**GEOTECHNICAL NOTES:**

- THE FACTORED BEARING RESISTANCE FOR WALL 01 IS 5.13 KSF. THE FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 11.41 KSF AND A RESISTANCE FACTOR OF 0.45. THE FACTORED BEARING RESISTANCE IS CALCULATED FOR A MODULAR BLOCK WALL; BY ENGINEERING JUDGEMENT, THIS IS CONSERVATIVE FOR THE USE OF AN MSE WALL WHICH HAS A RESISTANCE FACTOR OF 0.65.

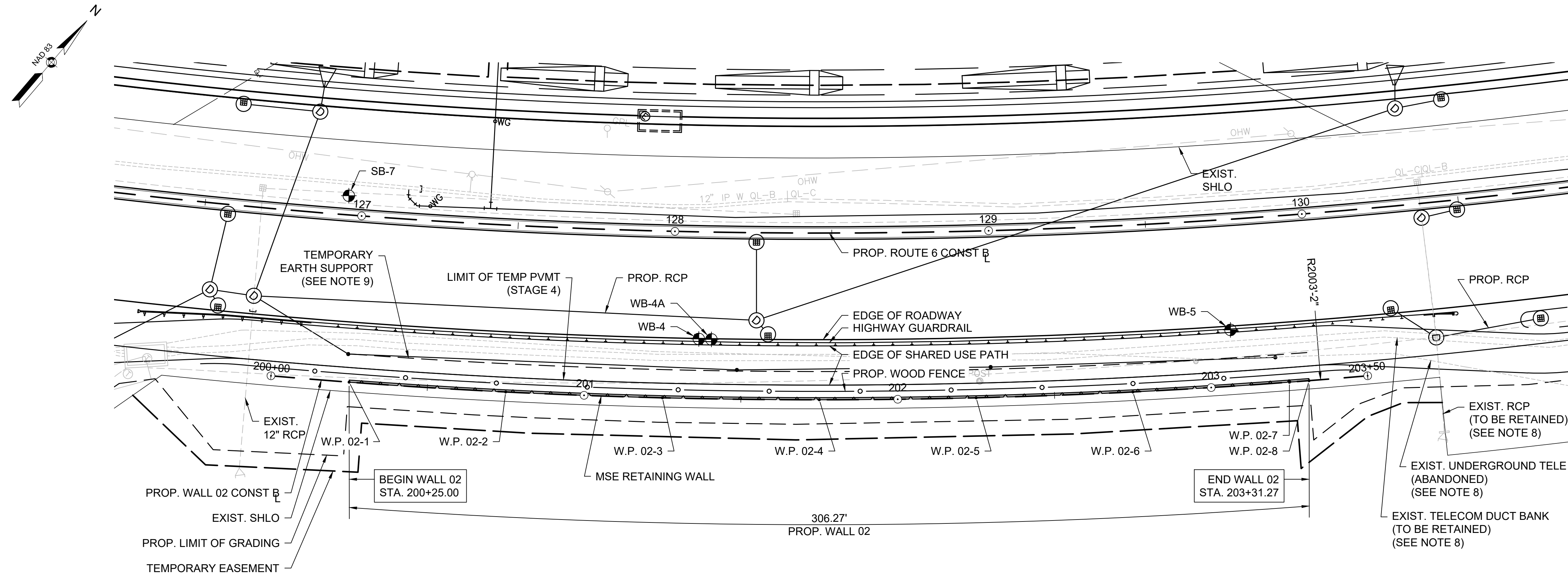
**WALL 01 WORK POINTS**

WORK POINT	WALL STATION	US 6 STATION	OFFSET (FROM US 6 STA)	NORTHING	EASTING	TOP OF WALL (TOW) ELEV.
W.P. 01-1	100+25.02	121+10.00	53.167' RT.	2736171.53	905902.29	56.85
W.P. 01-2	100+57.37	121+41.49		2736182.24	905932.80	56.93
W.P. 01-3	100+75.02	121+58.67		2736188.29	905949.40	57.02
W.P. 01-4	101+25.02	122+07.35		2736206.22	905996.07	57.44
W.P. 01-5	101+75.02	122+56.02		2736225.30	906042.28	58.21
W.P. 01-6	101+94.52	122+75.00		2736233.06	906060.18	58.56

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

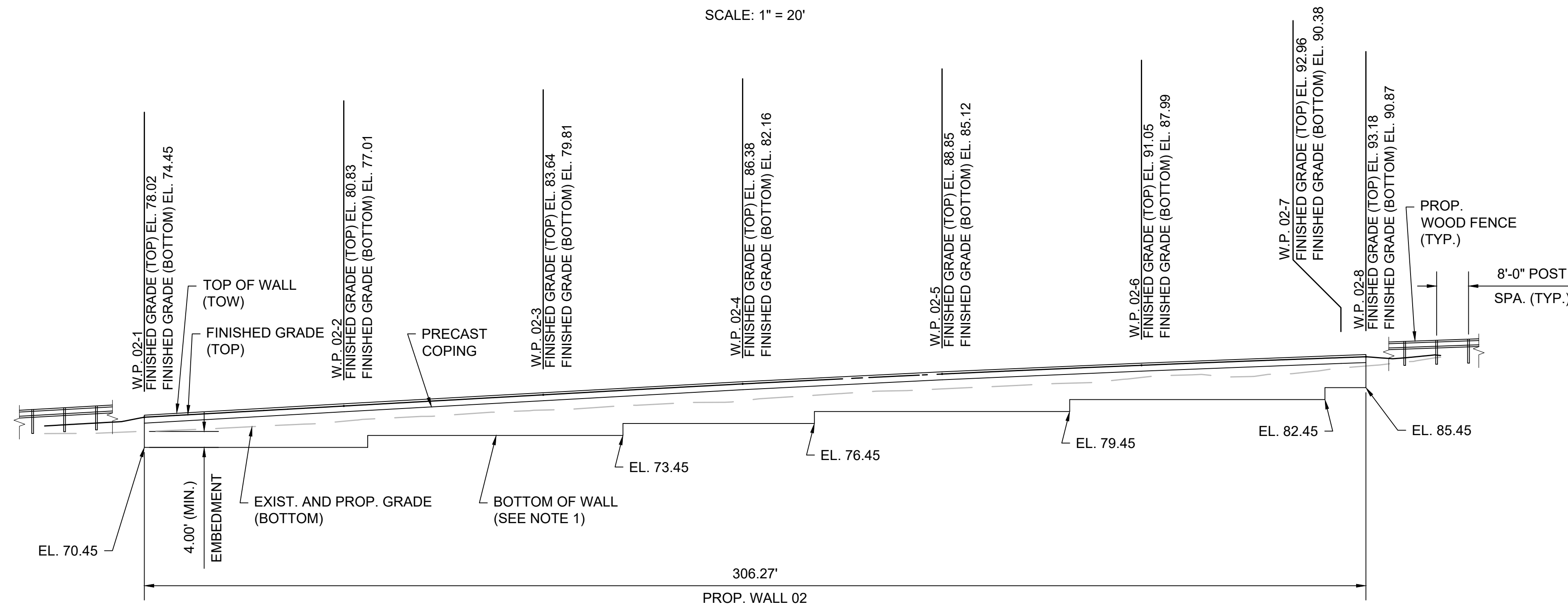
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	86	272
PROJECT FILE NO.		606082	

**RETAINING WALL PLANS - WALL 02**



**PROP. WALL 02 PLAN**

SCALE: 1" = 20'



**PROP. WALL 02 ELEVATION**

SCALE: 1" = 20'

**LEGEND:**  
 - LOCATION OF BORINGS

**NOTES:**  
 1. SEE SHEET 85 OF 272 FOR NOTES.

WALL 02 WORK POINTS						
WORK POINT	WALL STATION	US 6 STATION	OFFSET (FROM US 6 STA)	NORTHING	EASTING	TOP OF WALL (TOW) ELEV.
W.P. 02-1	200+25.00	127+00.00	53.167' RT.	2736450.64	906437.68	78.53
W.P. 02-2	200+75.00	127+48.67		2736480.67	906477.66	81.39
W.P. 02-3	201+25.00	127+97.35		2736511.69	906516.87	84.16
W.P. 02-4	201+75.00	128+46.02		2736543.68	906555.30	86.92
W.P. 02-5	202+25.00	128+94.69		2736576.61	906592.91	89.40
W.P. 02-6	202+75.00	129+43.36		2736610.48	906629.70	91.57
W.P. 02-7	203+25.00	129+92.04		2736645.26	906665.62	93.51
W.P. 02-8	203+31.27	129+98.14		2736649.68	906670.06	93.74

**GEOTECHNICAL NOTES:**

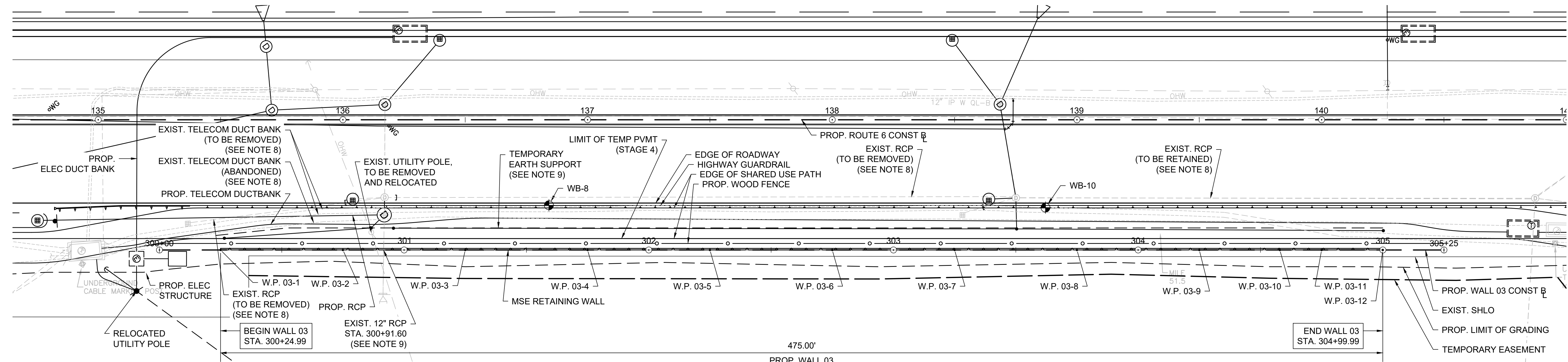
- THE TYPICAL SLOPE FOR WALL 02 IS 30 DEG. THE FACTORED BEARING RESISTANCE FOR WALL 02 IS 3.37 KSF. THE FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 5.18 KSF AND A RESISTANCE FACTOR OF 0.65.
- THE STEEPEST SLOPE FOR WALL 02 IS 33.3 DEG. THE MINIMUM FACTORED BEARING RESISTANCE FOR WALL 02 IS 2.62 KSF. THE FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 4.03 KSF AND A RESISTANCE FACTOR OF 0.65.



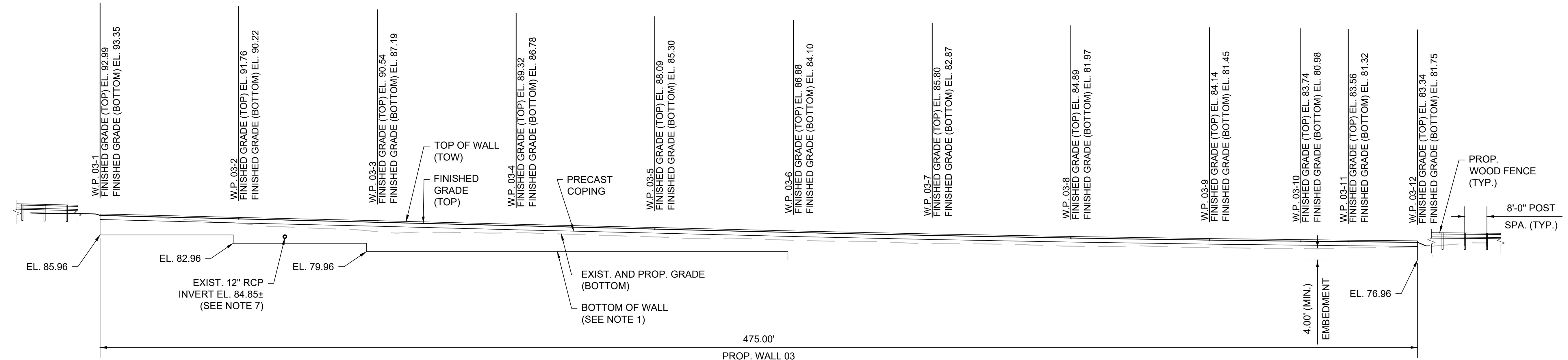
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	87	272
PROJECT FILE NO.			606082

**RETAINING WALL PLANS - WALL 03**



**PROP. WALL 03 PLAN**  
SCALE: 1" = 20'



**PROP. WALL 03 ELEVATION**  
SCALE: 1" = 20'

WALL 03 WORK POINTS						
WORK POINT	WALL STATION	US 6 STATION	OFFSET (FROM US 6 STA)	NORTHING	EASTING	TOP OF WALL (TOW) ELEV.
W.P. 03-1	300+24.99	135+50.00	53.167' RT.	2737085.42	907020.36	93.55
W.P. 03-2	300+74.99	136+00.00		2737125.59	907050.14	92.29
W.P. 03-3	301+24.99	136+50.00		2737165.76	907079.91	91.12
W.P. 03-4	301+74.99	137+00.00		2737205.93	907109.68	89.93
W.P. 03-5	302+24.99	137+50.00		2737246.10	907139.45	88.65
W.P. 03-6	302+74.99	138+00.00		2737286.27	907169.22	87.41
W.P. 03-7	303+24.99	138+50.00		2737326.44	907198.99	86.34
W.P. 03-8	303+74.99	139+00.00		2737366.61	907228.76	85.41
W.P. 03-9	304+24.99	139+50.00		2737406.78	907258.54	84.67
W.P. 03-10	304+57.90	139+82.91		2737433.22	907278.13	84.31
W.P. 03-11	304+74.99	140+00.00		2737446.95	907288.31	84.08
W.P. 03-12	304+99.99	140+25.00		2737467.05	907303.20	83.86

**LEGEND:**

⊕ - LOCATION OF BORINGS

**NOTES:**

1. SEE SHEET 85 OF 272 FOR NOTES.

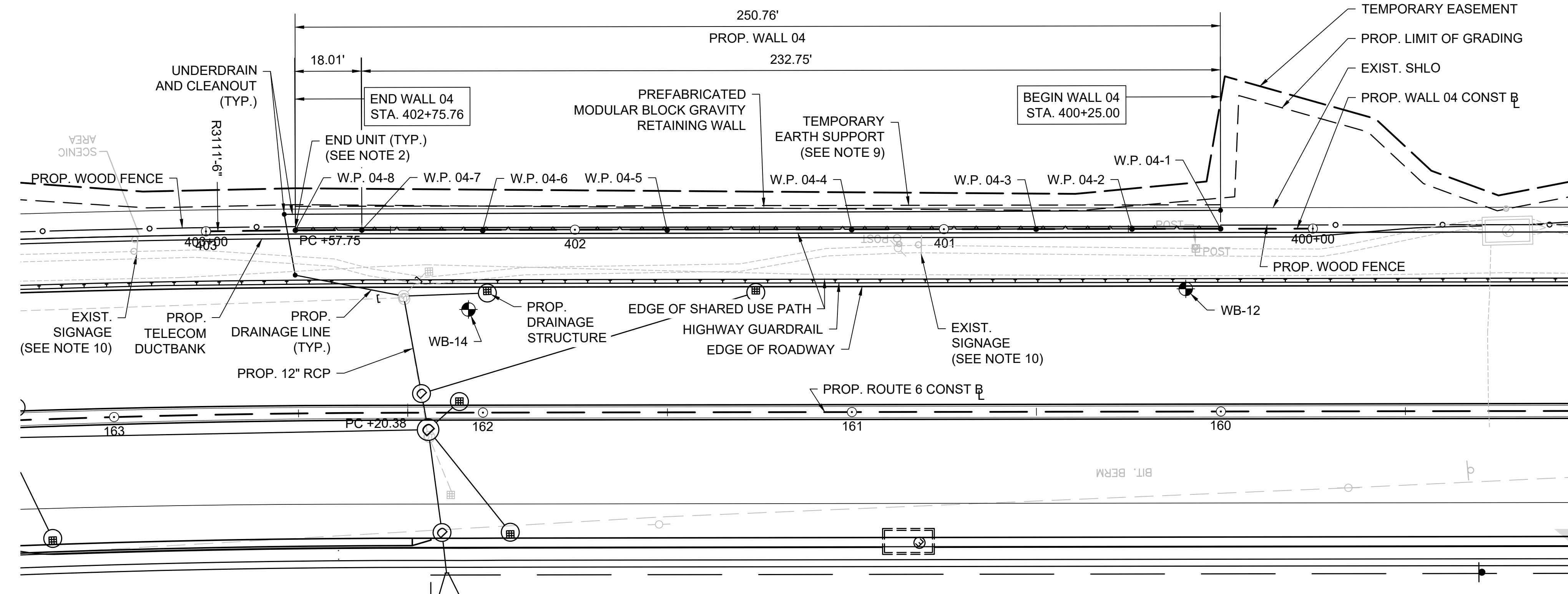
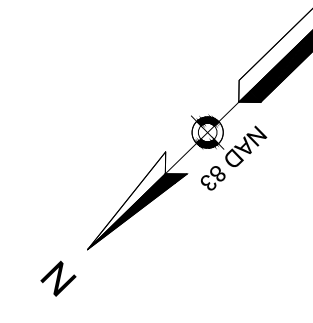
**GEOTECHNICAL NOTES:**

- THE TYPICAL SLOPE FOR WALL 03 IS 26.6 DEG (2H:1V SLOPE). THE FACTORED BEARING RESISTANCE FOR WALL 03 IS 2.35 KSF. THE FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 3.62 KSF AND A RESISTANCE FACTOR OF 0.65.
- THE STEEPEST SLOPE FOR WALL 03 IS 30 DEG. THE MINIMUM FACTORED BEARING RESISTANCE FOR WALL 03 IS 1.76 KSF. THE FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 2.71 KSF AND A RESISTANCE FACTOR OF 0.65.

**BOURNE  
MEDIAN INSTALLATION ON  
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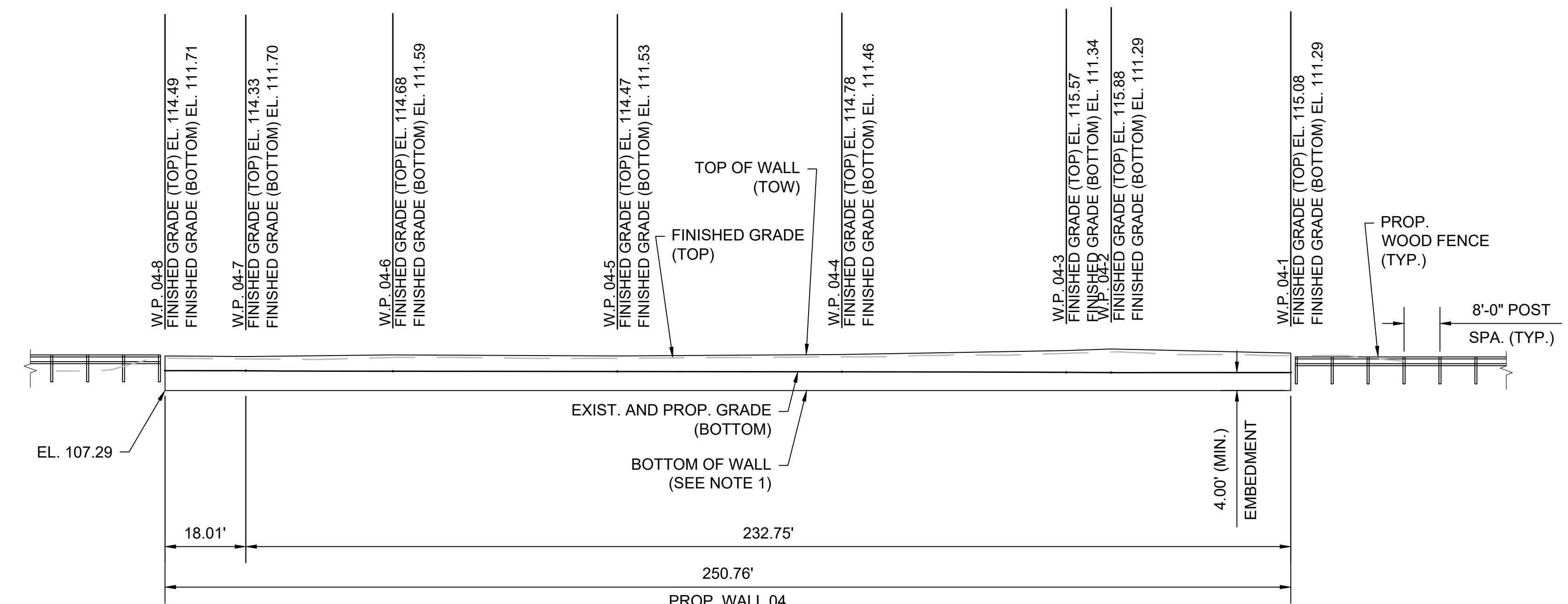
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	88	272
PROJECT FILE NO.		606082	

**RETAINING WALL PLANS - WALL 04**



**PROP. WALL 04 PLAN**

SCALE: 1" = 20'



**PROP. WALL 04 ELEVATION**

SCALE: 1" = 20'

**LEGEND:**

- LOCATION OF BORINGS

**NOTES:**

- SEE SHEET 85 OF 272 FOR NOTES.
- CONTRACTOR SHALL PROVIDE END UNITS TO TIE CUT WALL BACK INTO EXISTING SLOPE AND PROVIDE VERTICAL FACE FOR WOODEN FENCE.

**GEOTECHNICAL NOTES:**

- THE FACTORED BEARING RESISTANCE FOR WALL 04 IS 7.30 KSF. THE FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 16.18 KSF AND A RESISTANCE FACTOR OF 0.45.

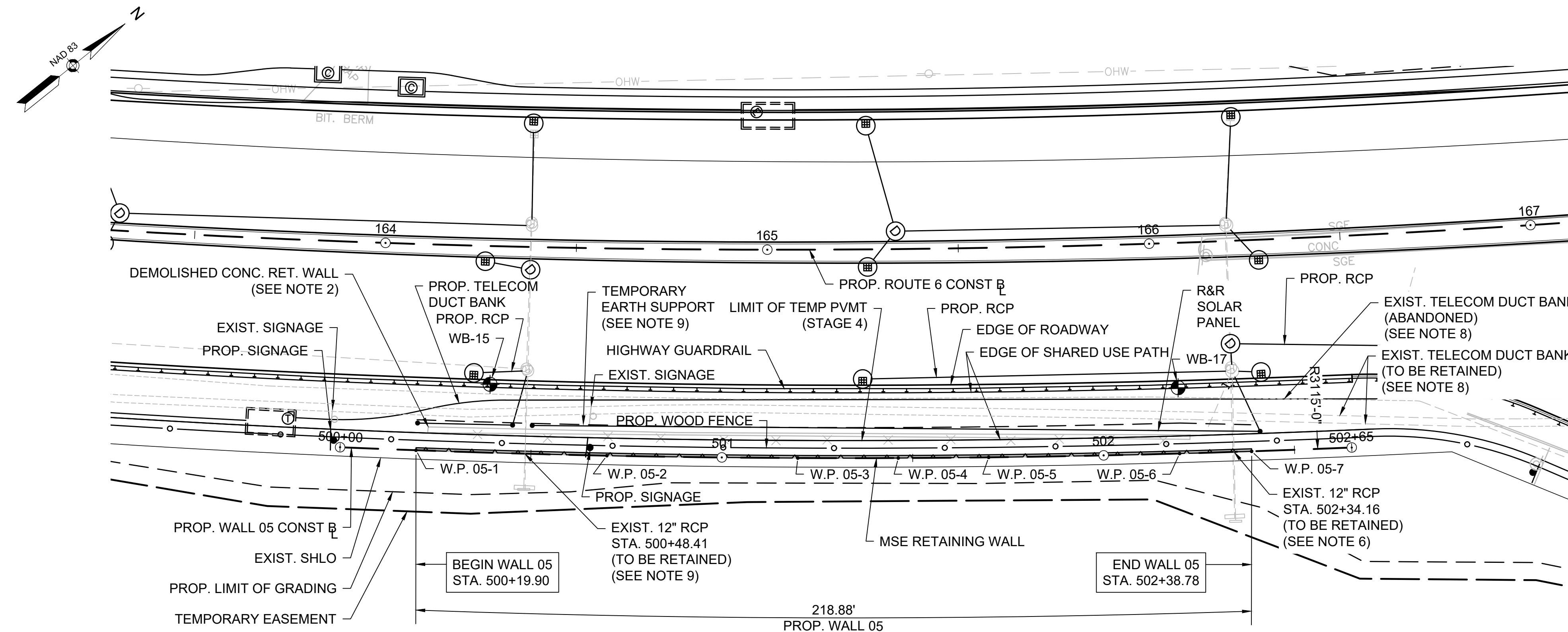
**WALL 04 WORK POINTS**

WORK POINT	WALL STATION	US 6 STATION	OFFSET (FROM US 6 STA)	NORTHING	EASTING	TOP OF WALL (TOW) ELEV.
W.P. 04-1	400+25.00	160+00.00	49.502' RT.	2738998.83	908534.43	115.62
W.P. 04-2	400+65.00	160+40.00	49.480' RT.	2739016.05	908551.15	116.54
W.P. 04-3	400+75.00	160+50.00	49.455' RT.	2739034.71	908569.25	116.20
W.P. 04-4	401+25.00	161+00.00	49.407' RT.	2739070.59	908604.08	115.31
W.P. 04-5	401+75.00	161+50.00	49.360' RT.	2739106.47	908638.90	114.99
W.P. 04-6	402+25.00	162+00.00	49.313' RT.	2739142.35	908673.72	115.22
W.P. 04-7	402+57.75	162+32.55	49.529' RT.	2739165.70	908696.69	114.85
W.P. 04-8	402+75.76	162+50.27	49.603' RT.	2739178.65	908709.21	115.00

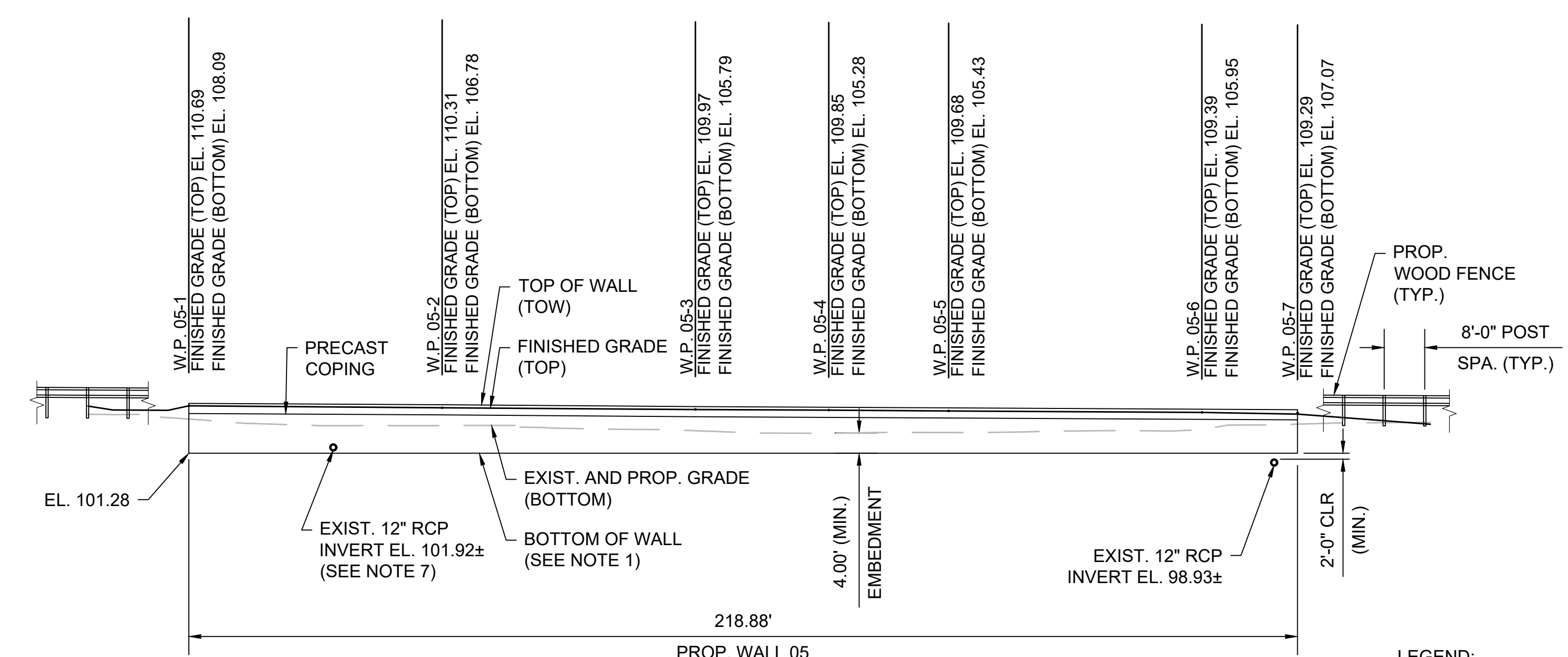
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	89	272
PROJECT FILE NO.		606082	

**RETAINING WALL PLANS - WALL 05**



**PROP. WALL 05 PLAN**  
SCALE: 1" = 20'



**PROP. WALL 05 ELEVATION**  
SCALE: 1" = 20'

**LEGEND:**  
● - LOCATION OF BORINGS

- NOTES:**
- SEE SHEET 85 OF 272 FOR NOTES.
  - LIMITS OF REMOVAL FOR EXISTING CONCRETE WALL SHALL BE AS NEEDED FOR WALL INSTALLATION, MINIMUM 2'-0" BELOW FINISHED GRADE.

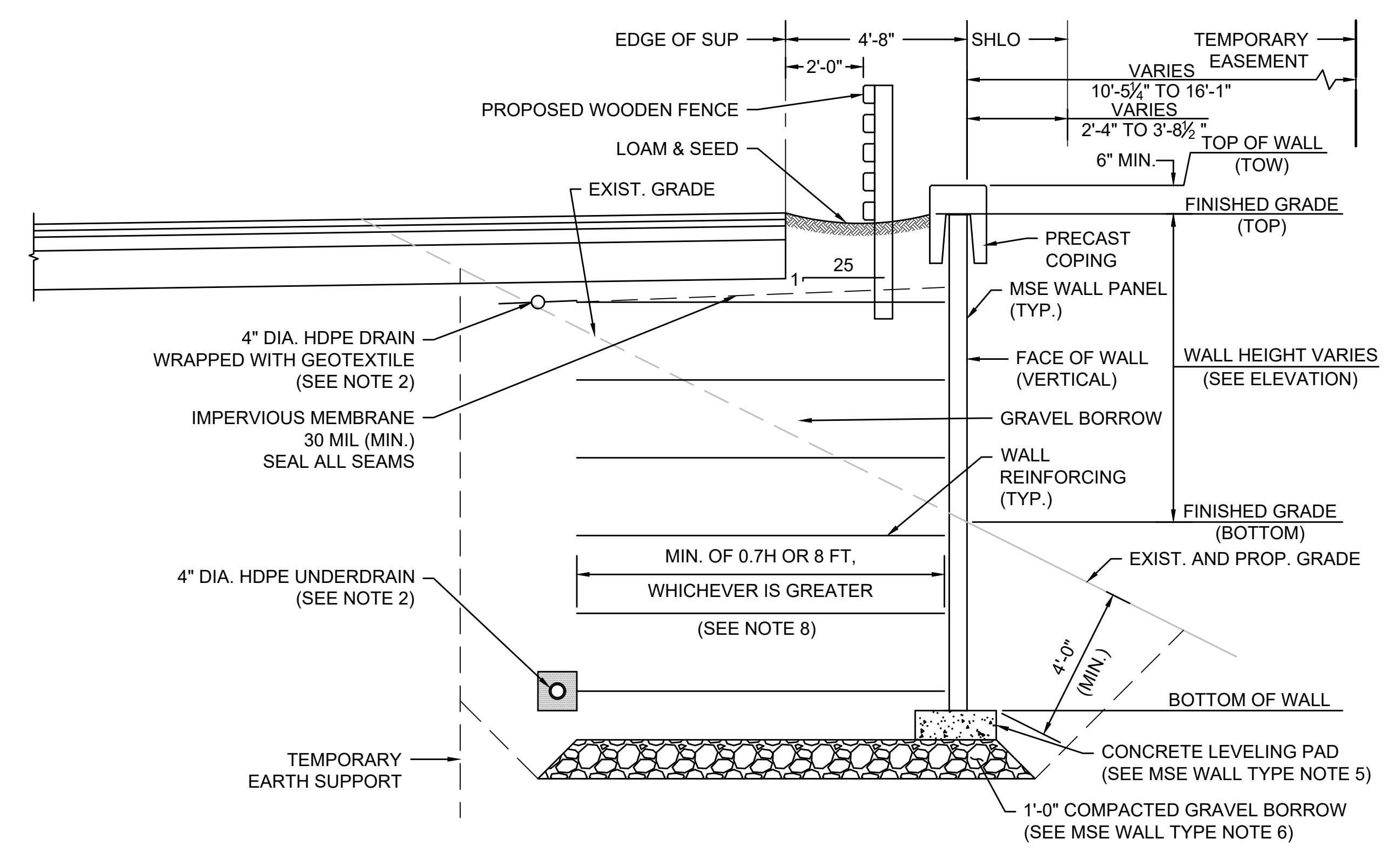
WALL 05 WORK POINTS						
WORK POINT	WALL STATION	US 6 STATION	OFFSET (FROM US 6 STA)	NORTHING	EASTING	TOP OF WALL (TOW) ELEV.
W.P. 05-1	500+19.90	164+09.67	54.033' RT.	2739295.98	908821.20	111.19
W.P. 05-2	500+69.90	164+58.77	54.296' RT.	2739334.04	908853.62	110.85
W.P. 05-3	501+19.90	165+07.88	54.587' RT.	2739372.62	908885.42	110.49
W.P. 05-4	501+46.23	165+33.74	54.744' RT.	2739393.14	908901.92	110.35
W.P. 05-5	501+69.90	165+56.98	54.888' RT.	2739411.71	908916.60	110.22
W.P. 05-6	502+19.90	166+06.09	55.205' RT.	2739451.29	908947.15	109.96
W.P. 05-7	502+38.78	166+24.63	55.329' RT.	2739466.36	908958.52	109.87

- NOTES:**
- THE TYPICAL SLOPE FOR WALL 05 IS 30 DEG. THE FACTORED BEARING RESISTANCE FOR WALL 05 IS 3.51 KSF. THE FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 5.39 KSF AND A RESISTANCE FACTOR OF 0.65.
  - THE STEEPEST SLOPE FOR WALL 05 IS 32.7 DEG. THE MINIMUM FACTORED BEARING RESISTANCE FOR WALL 05 IS 3.38 KSF. THE FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 5.19 KSF AND A RESISTANCE FACTOR OF 0.65.

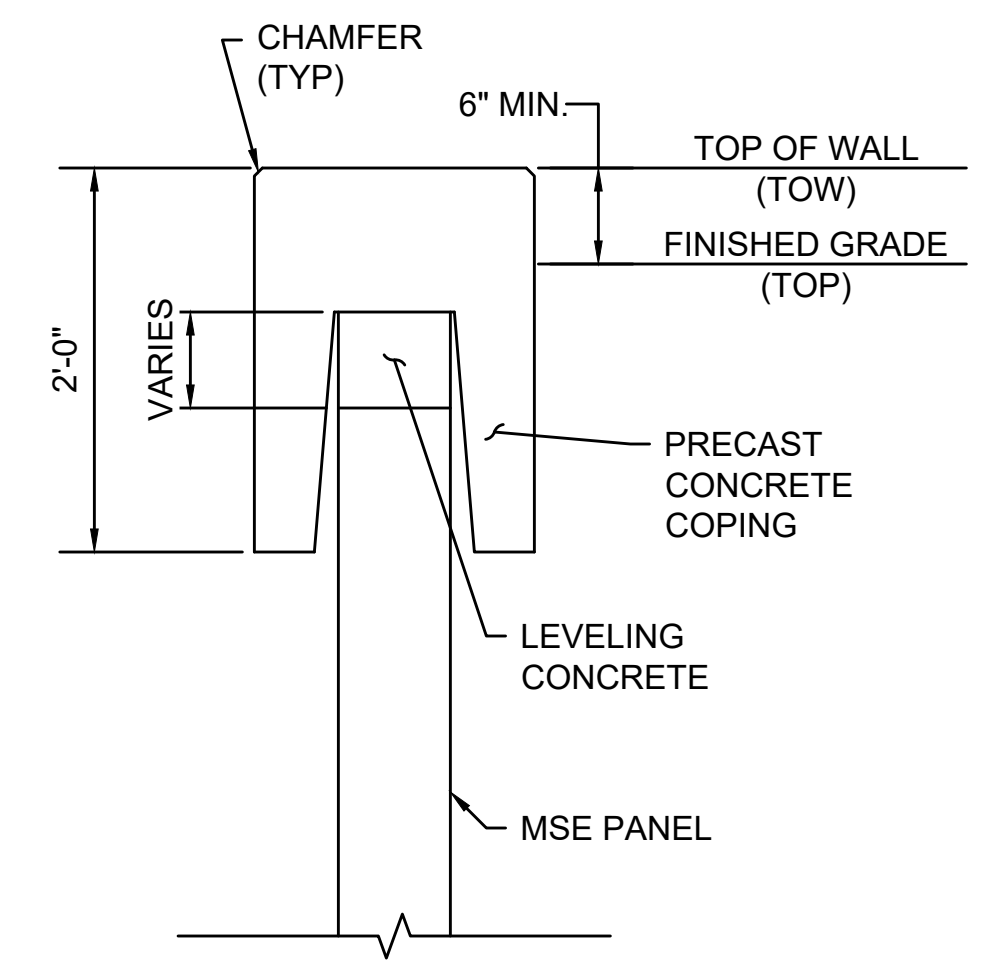
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	90	272
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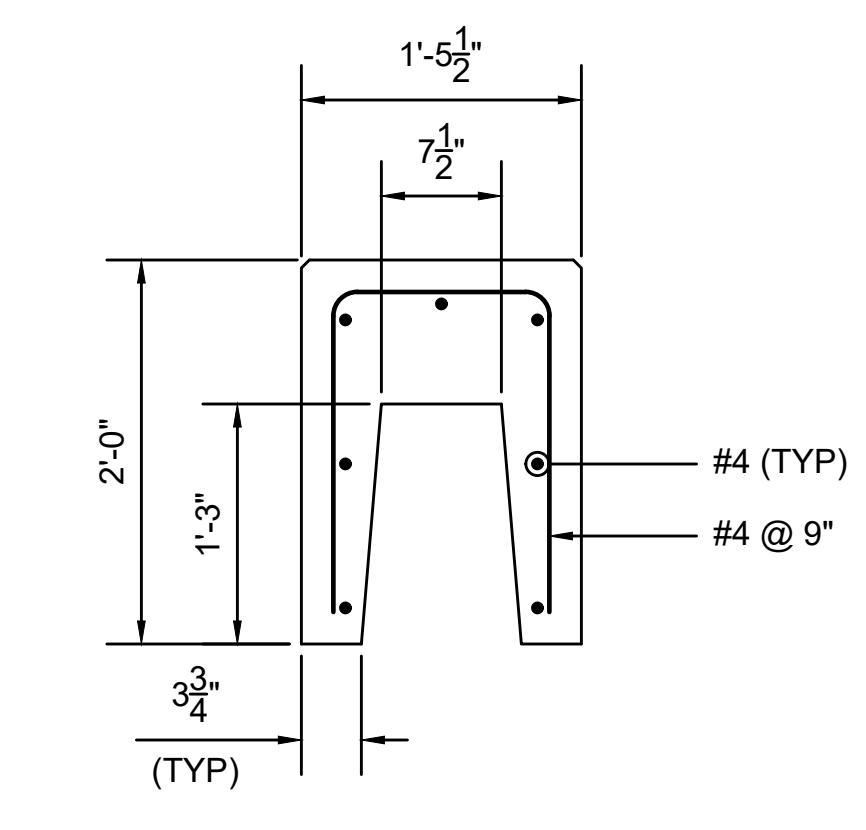
**RETAINING WALL DETAILS - 1 OF 2**



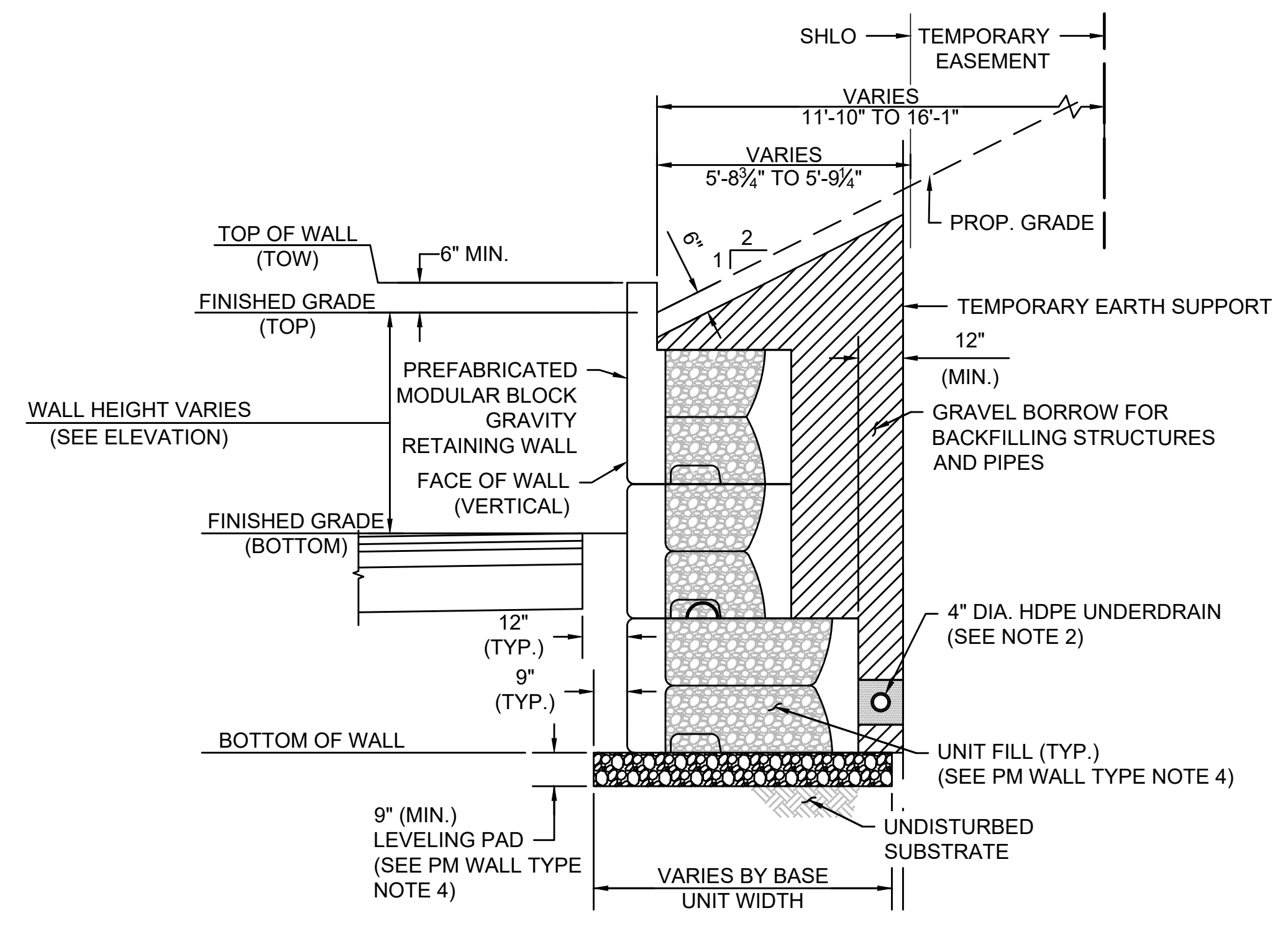
**WALL 01, 02, 03, & 05 - MSE WALL TYPICAL SECTION (SEE NOTE 1 AND MSE WALL TYPE NOTE 1)**  
SCALE:  $\frac{3}{8}$ " = 1'-0"



**PRECAST COPING DETAIL**  
SCALE: 1" = 1'-0"



**PRECAST COPING REINFORCEMENT**  
SCALE: 1" = 1'-0"



**WALL 04 - PREFABRICATED MODULAR (PM) BLOCK GRAVITY RETAINING WALL TYPICAL SECTION (SEE NOTE 1 AND PM WALL TYPE NOTE 1)**  
SCALE:  $\frac{3}{8}$ " = 1'-0"

**NOTES:**

1. WALLS SHALL BE MANUFACTURER DESIGNED PROPRIETARY WALL SYSTEMS. DETAILS PROVIDED HEREIN ARE INTENDED TO BE A GUIDE. FINAL DETAILS TO BE DETERMINED BY THE WALL MANUFACTURER.
2. WALL UNDERDRAINS SHALL HAVE A POSITIVE PITCH TOWARD THE OUTLETS TO THE CLOSED DRAINAGE SYSTEM. OUTLET PIPES SHALL BE SOLID AND NOT PERFORATED. FOR ADDITIONAL DETAILS, SEE DRAINAGE PLANS.
3. FILL WALLS SHALL BE DESIGNED TO SUPPORT TEMPORARY STAGE 4 LOADING WITH FULL HL-93 LIVE LOADING.

**MSE WALL TYPE NOTES:**

1. FOR APPROVED WALL ALTERNATIVES, SEE SPECIAL PROVISION 996.3 - MECHANICALLY STABILIZED EARTH (MSE) WALLS.
2. ACTUAL DIMENSIONS SHALL BE DETERMINED BY THE MANUFACTURER.
3. REINFORCED CONCRETE ARCHITECTURAL FACING PANELS SHALL BE 5000 PSI, 3/4 INCH, 705, AIR-ENTRAINED CEMENT CONCRETE, FROM A MASSDOT APPROVED PRECASTER, AND IN ACCORDANCE WITH SPECIFICATION SECTION M4.02.14 PRECAST CONCRETE HIGHWAY UNITS AND SECTION 901. FOR ADDITIONAL REQUIREMENTS, SEE SPECIAL PROVISION 996.3.
4. PRECAST CONCRETE WALL COPINGS SHALL BE 4000 PSI, 3/4 INCH, 610 CEMENT CONCRETE, IN ACCORDANCE WITH SPECIFICATION SECTION 901. FOR ADDITIONAL REQUIREMENTS, SEE SPECIAL PROVISION 996.3.
5. LEVELING PAD AND BACKFILL MATERIAL SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS. FOR ADDITIONAL REQUIREMENTS, SEE SPECIAL PROVISION 996.3.
6. FOR ADDITIONAL RETAINING WALL REQUIREMENTS, REFER TO SPECIAL PROVISION 996.3.
7. PROPOSED WALL SYSTEM SHALL ACCOMMODATE THE PROPOSED WOODEN FENCE. SEE SHEET 91 OF 272 FOR DETAILS OF THE PROPOSED WOODEN FENCE.
8. MINIMUM REINFORCEMENT LENGTH FOR MSE WALLS WITH A SLOPING BACKFILL SURCHARGE SHALL BE DETERMINED BY 0.8 H.

**PREFABRICATED MODULAR BLOCK GRAVITY WALL TYPE NOTES:**

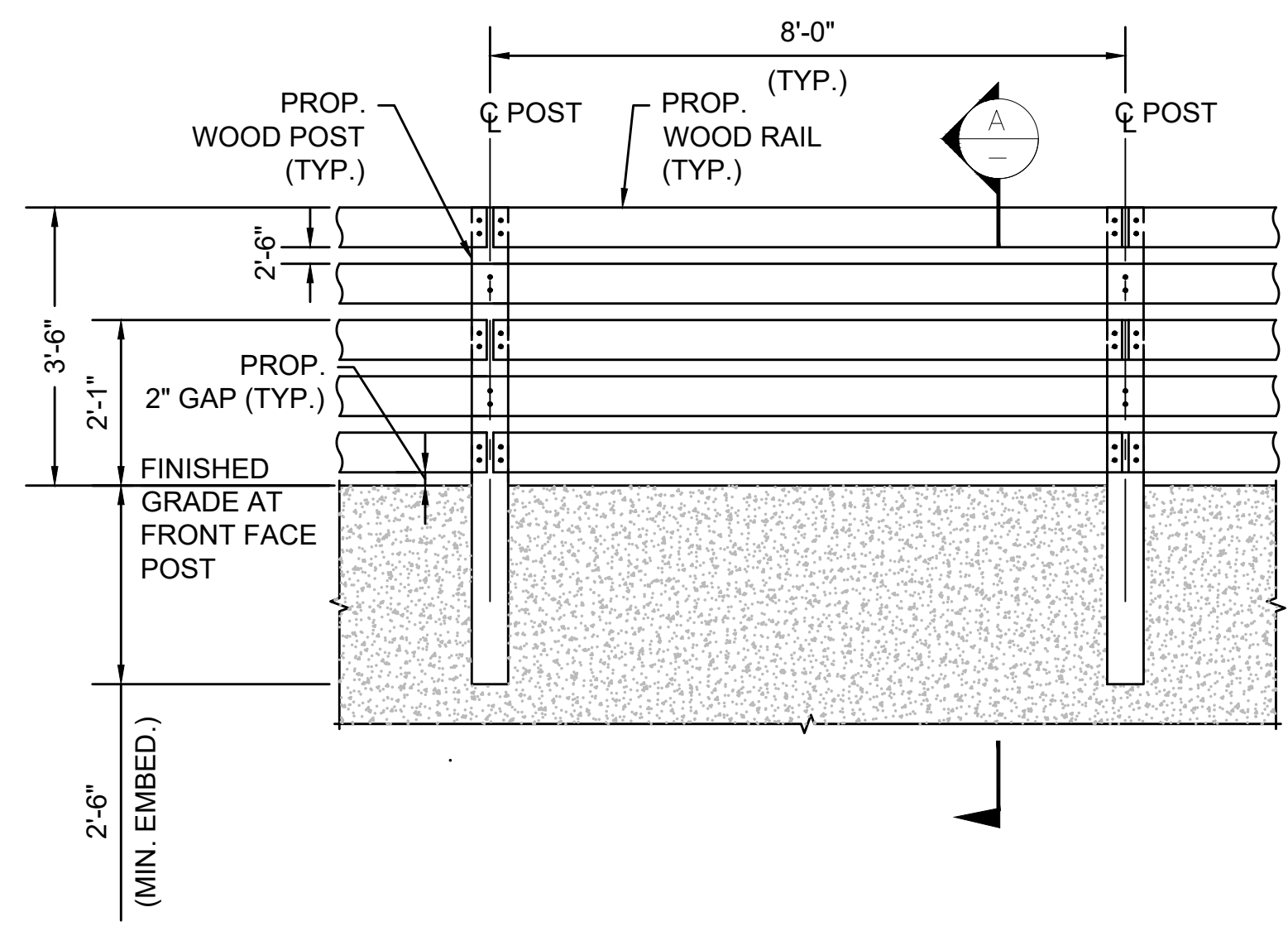
1. FOR APPROVED WALL ALTERNATIVES, SEE SPECIAL PROVISION 996.4 - PREFABRICATED MODULAR BLOCK GRAVITY RETAINING WALLS. STONE STRONG PRECAST MODULAR WALL IS SHOWN AS PROOF OF CONCEPT.
2. ACTUAL BLOCK ARRANGEMENT AND DIMENSIONS SHALL BE DETERMINED BY THE MANUFACTURER.
3. ARCHITECTURAL PRECAST CONCRETE BLOCK UNITS SHALL BE 5000 PSI, 3/4 INCH, 705, AIR-ENTRAINED CEMENT CONCRETE, FROM A MASSDOT APPROVED PRECASTER, AND IN ACCORDANCE WITH SPECIFICATION SECTION M4.02.14 PRECAST CONCRETE HIGHWAY UNITS AND SECTION 901, AND BE WET-CAST UNITS CONFORMING TO ASTM C1776. FOR ADDITIONAL REQUIREMENTS, SEE SPECIAL PROVISION 996.4.
4. LEVELING PAD AND UNIT FILL SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS. FOR ADDITIONAL REQUIREMENTS, SEE SPECIAL PROVISION 996.4.
5. FOR ADDITIONAL RETAINING WALL REQUIREMENTS, REFER TO SPECIAL PROVISION 996.4.



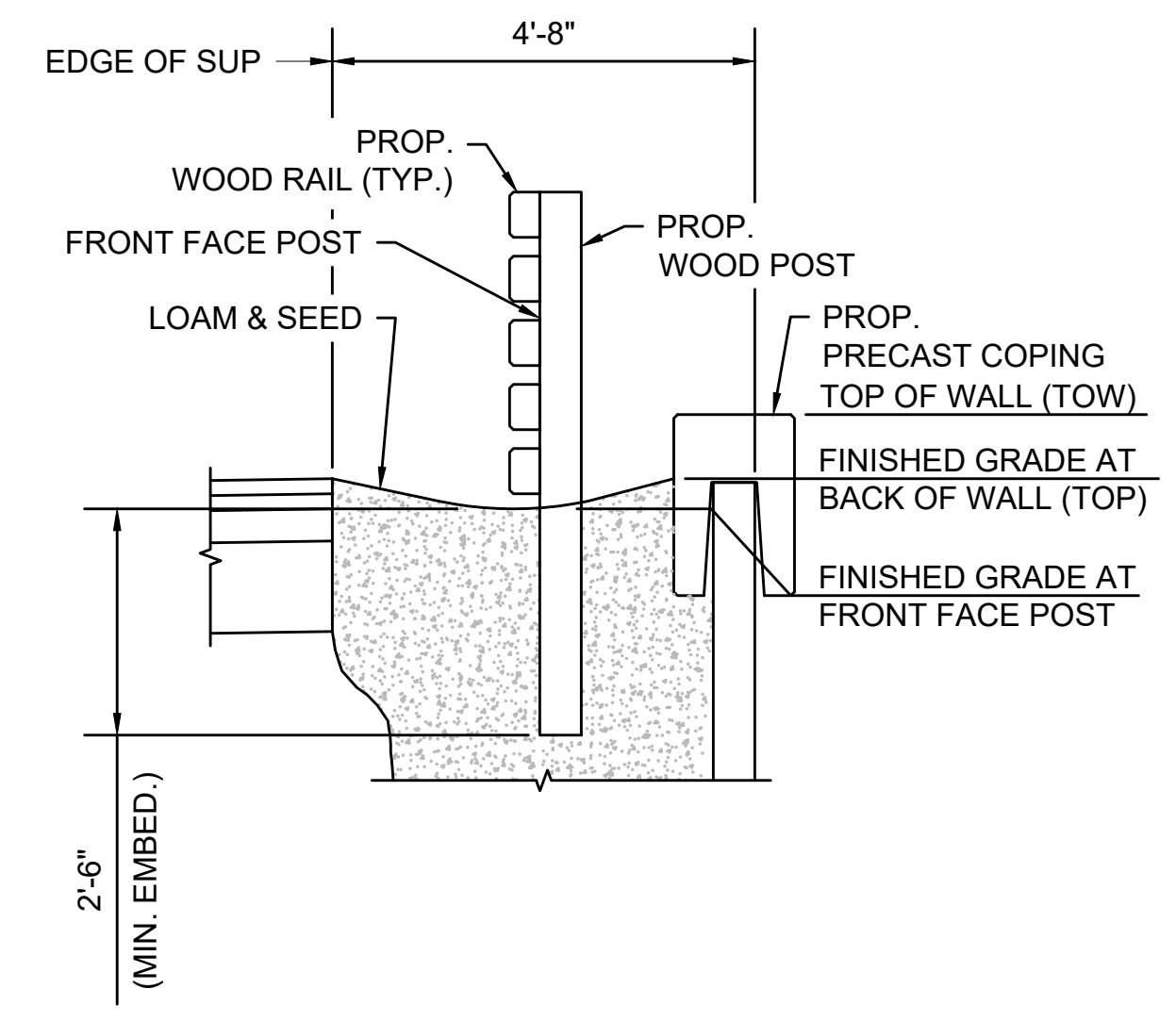
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	91	272
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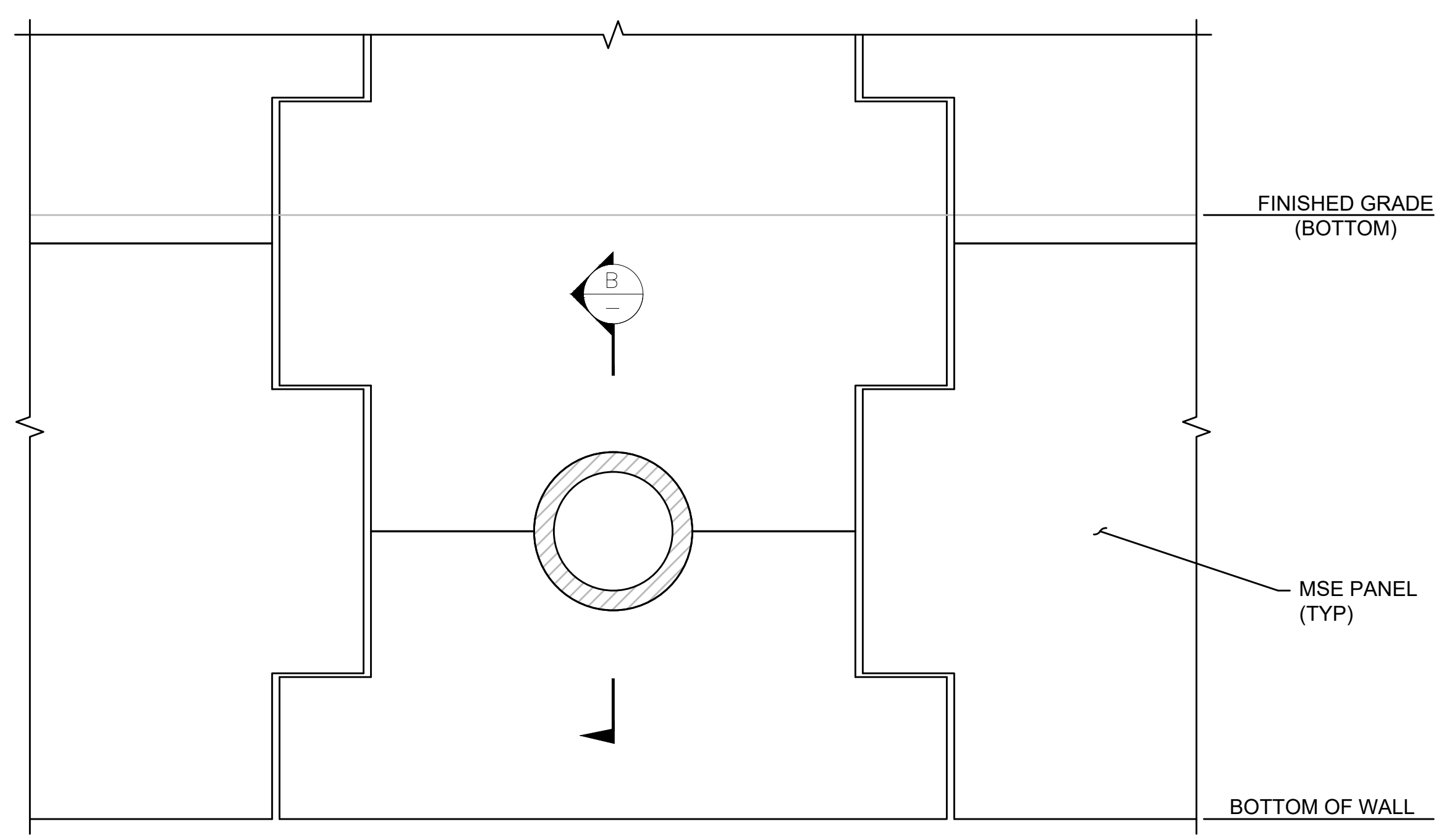
**RETAINING WALL DETAILS - 2 OF 2**



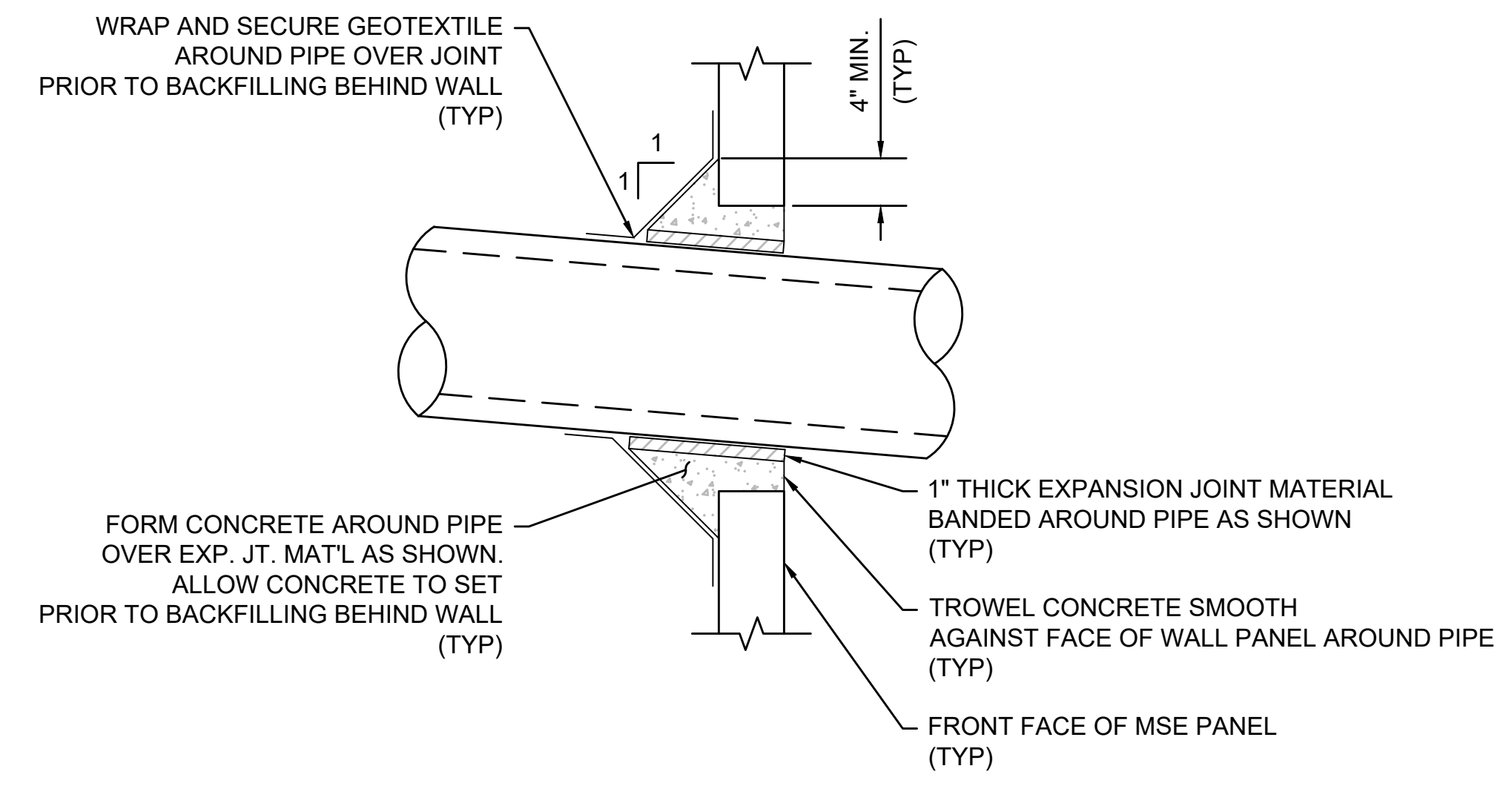
**WOOD RAILING ELEVATION THROUGH MSE RETAINING WALL**  
SCALE: 1/2" = 1'-0"



**SECTION A**  
SCALE: 1/2" = 1'-0"



**PIPE PENETRATION AT MSE WALL FACE ELEVATION (SEE NOTE 3)**  
SCALE: 1/2" = 1'-0"



**SECTION B**  
SCALE: 1/2" = 1'-0"

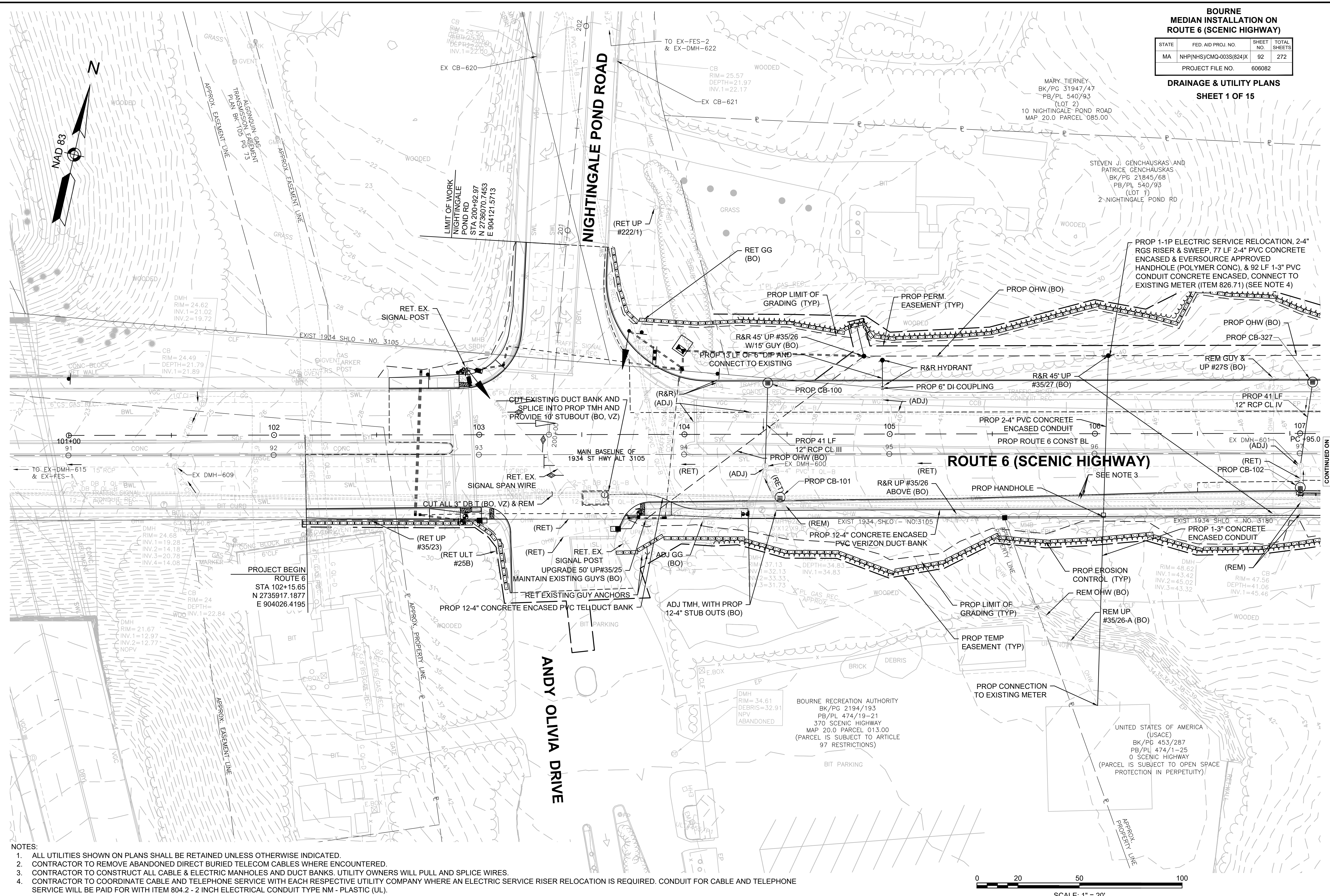
**NOTES**

- FOR PROPOSED WOOD RAILING DETAILS NOT SHOWN ON THIS SHEET, SEE SHEET 182 OF 272.
- SEE DRAINAGE PLANS AND SPECIAL PROVISIONS, AS WELL AS GENERAL NOTES, FOR EXISTING DRAINAGE AND UTILITY REQUIREMENTS.
- CONTRACTOR SHALL LAY OUT PANELS TO ACCOMMODATE EXISTING UTILITY PENETRATION DETAILS.

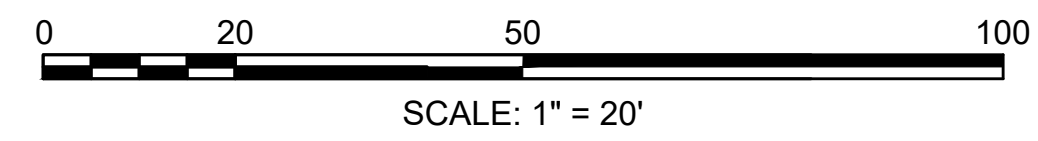
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	92	272
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**DRAINAGE & UTILITY PLANS  
SHEET 1 OF 15**



- NOTES:**
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE CABLES.
  4. CONTRACTOR TO COORDINATE CABLE AND TELEPHONE SERVICE WITH EACH RESPECTIVE UTILITY COMPANY WHERE AN ELECTRIC SERVICE RISER RELOCATION IS REQUIRED. CONDUIT FOR CABLE AND TELEPHONE SERVICE WILL BE PAID FOR WITH ITEM 804.2 - 2 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL).



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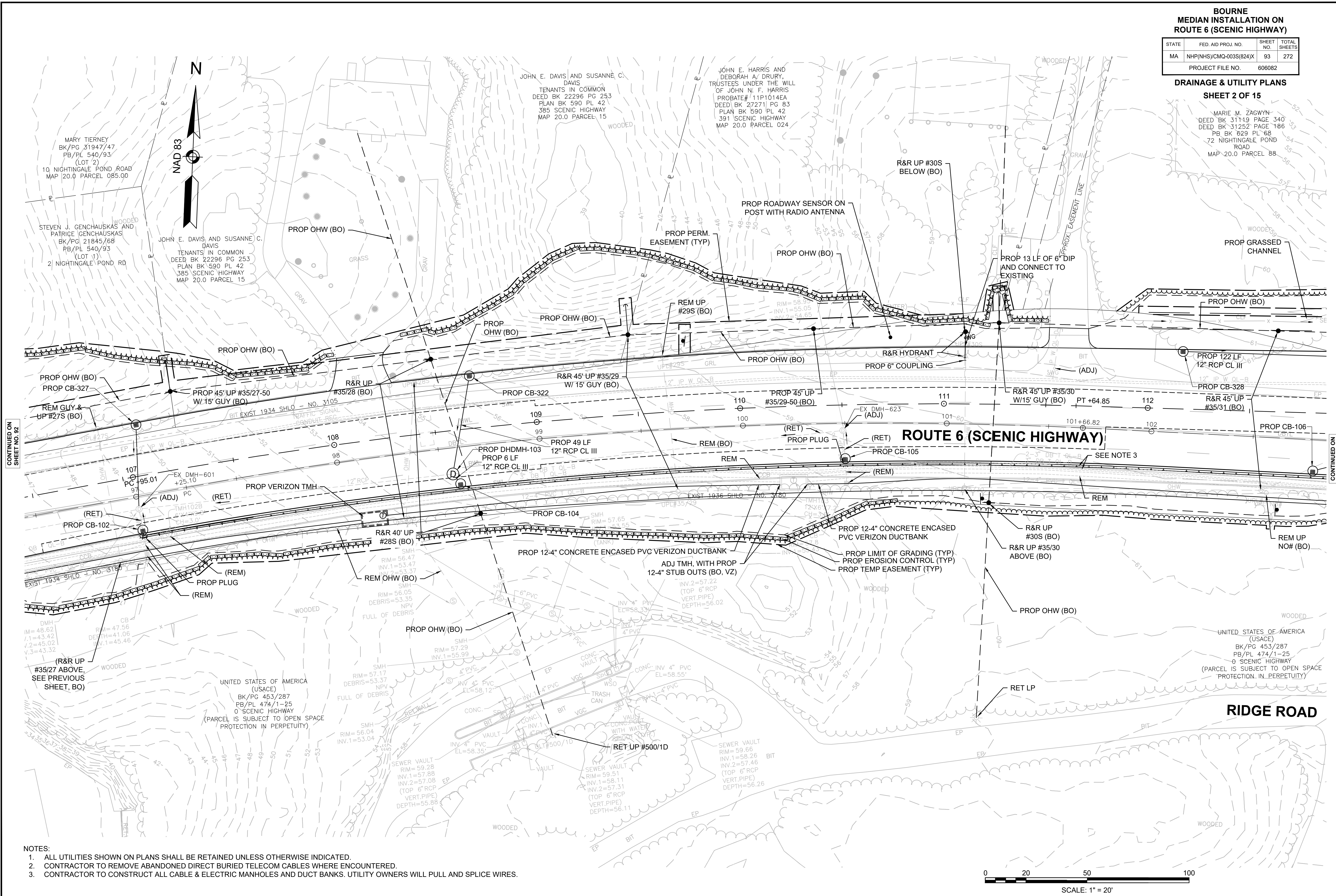


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	93	272
PROJECT FILE NO. 606082			

**DRAINAGE & UTILITY PLANS  
SHEET 2 OF 15**

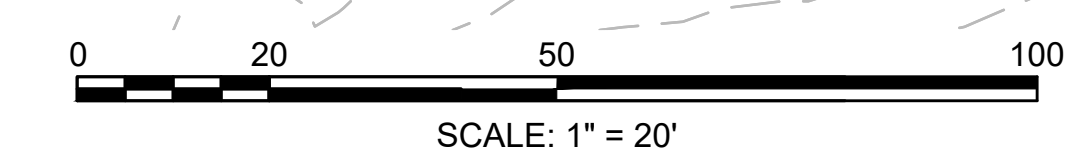
MARIE M. ZAGWYN  
DEED BK 31119 PAGE 340  
DEED BK 31252 PAGE 186  
PB BK 629 PL 68  
72 NIGHTINGALE POND  
ROAD  
MAP 20.0 PARCEL 88



CONTINUED ON SHEET NO. 92

CONTINUED ON SHEET NO. 94

- NOTES:**
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.

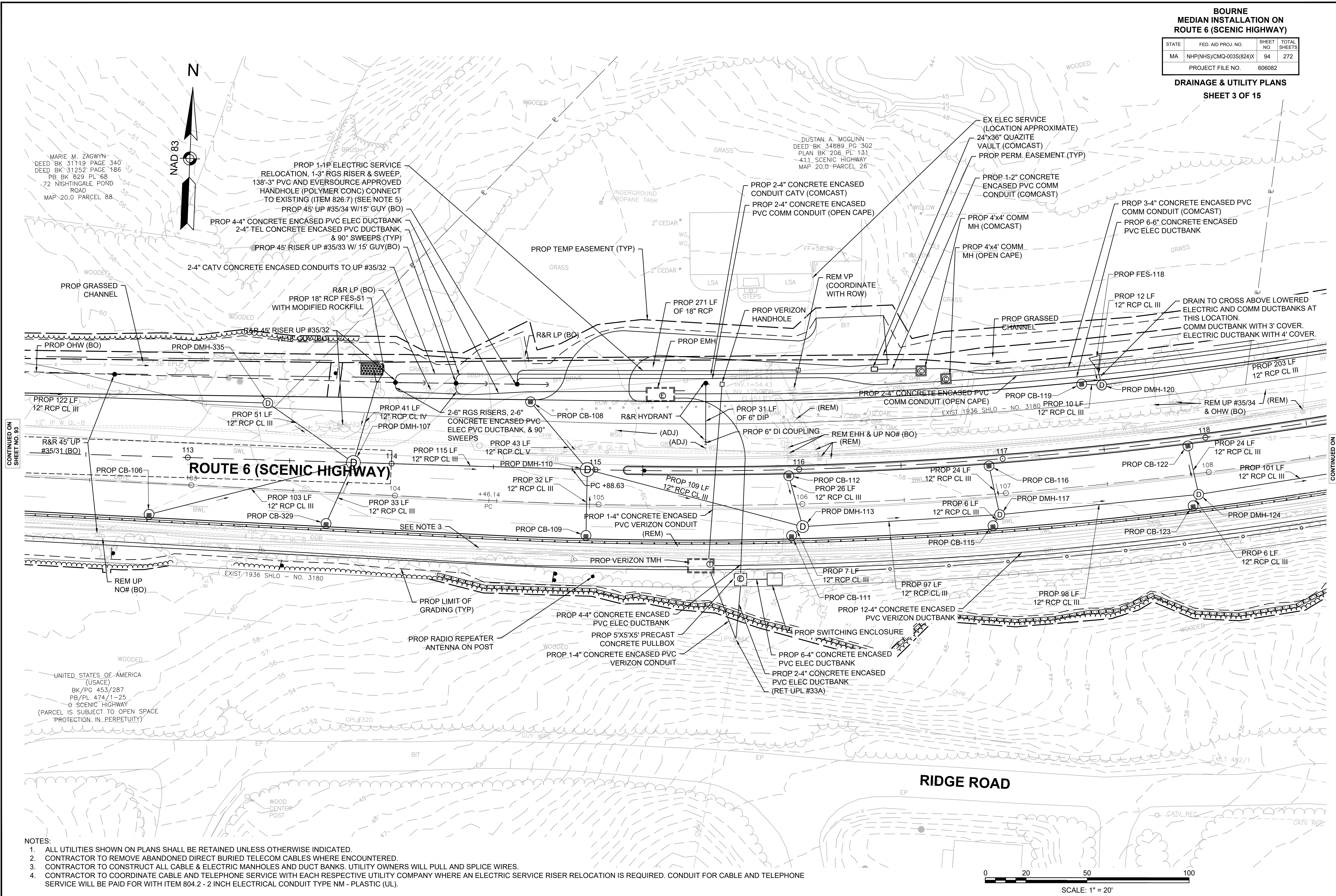




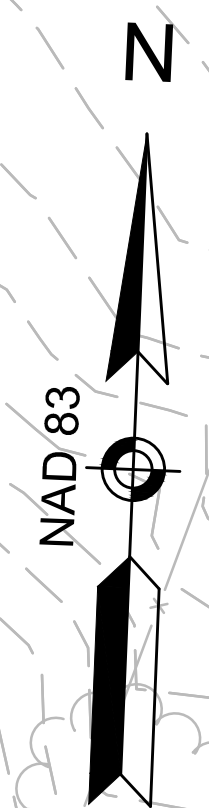
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	94	272
PROJECT FILE NO.		606082	

**DRAINAGE & UTILITY PLANS  
SHEET 3 OF 15**



MARIE M. ZAGWYN  
DEED BK 31119 PAGE 340  
DEED BK 31252 PAGE 186  
PB BK 629 PL 68  
72 NIGHTINGALE POND  
ROAD  
MAP 20.0 PARCEL 88

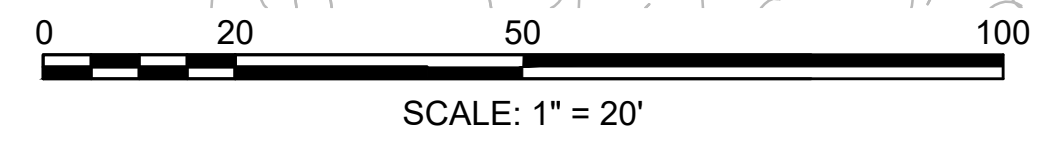


CONTINUED ON  
SHEET NO. 93

CONTINUED ON  
SHEET NO. 95

UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN SPACE  
PROTECTION IN PERPETUITY)

- NOTES:**
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.
  4. CONTRACTOR TO COORDINATE CABLE AND TELEPHONE SERVICE WITH EACH RESPECTIVE UTILITY COMPANY WHERE AN ELECTRIC SERVICE RISER RELOCATION IS REQUIRED. CONDUIT FOR CABLE AND TELEPHONE SERVICE WILL BE PAID FOR WITH ITEM 804.2 - 2 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL).

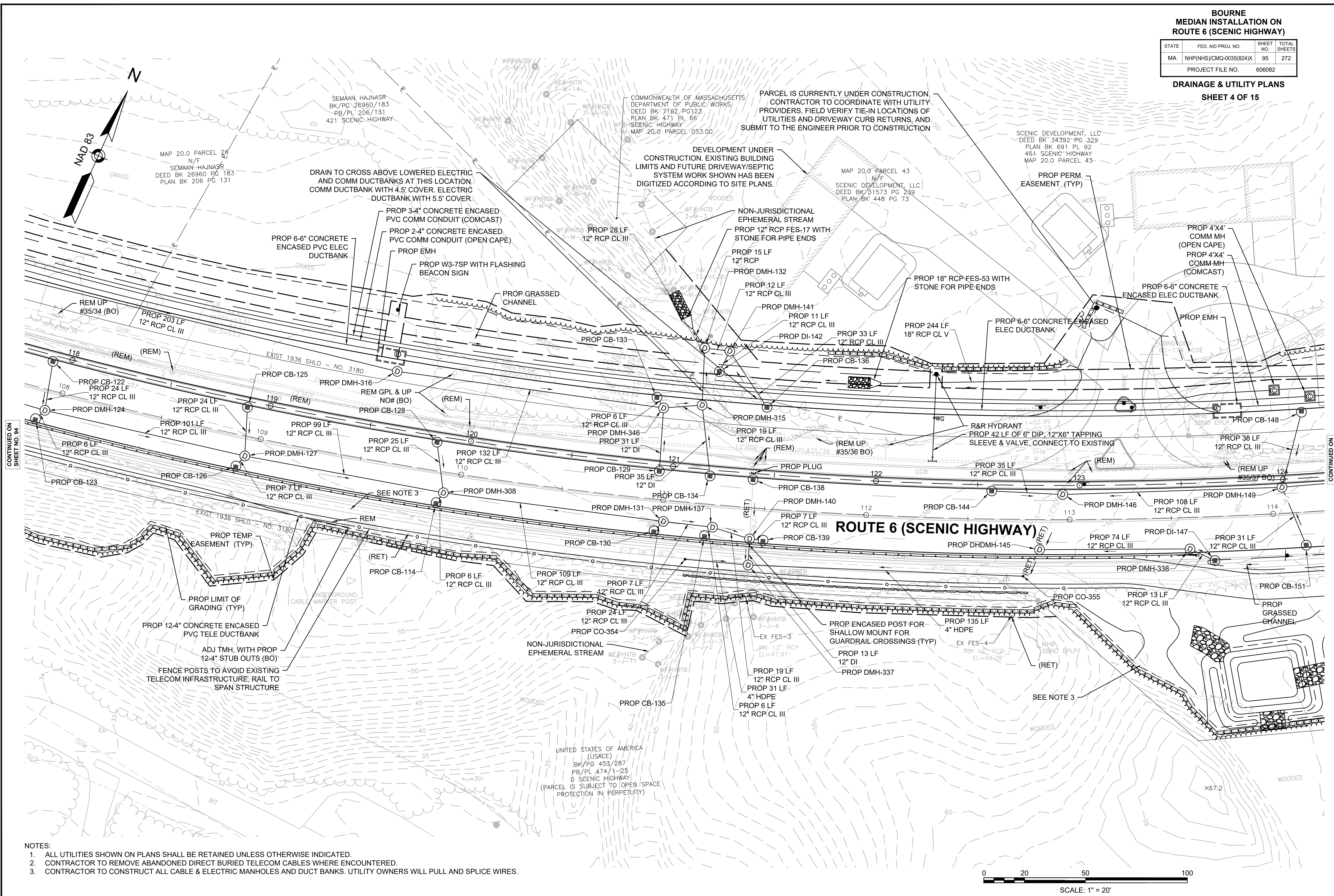




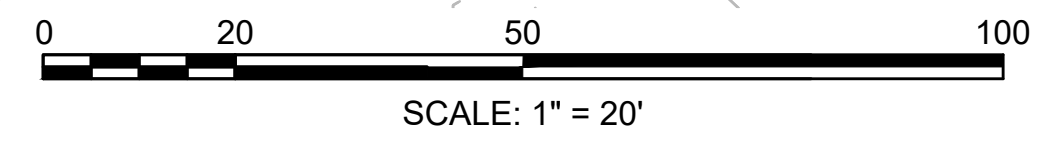
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	95	272
PROJECT FILE NO.		606082	

**DRAINAGE & UTILITY PLANS  
SHEET 4 OF 15**



- NOTES:
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.



CONTINUED ON  
SHEET NO. 94

CONTINUED ON  
SHEET NO. 96

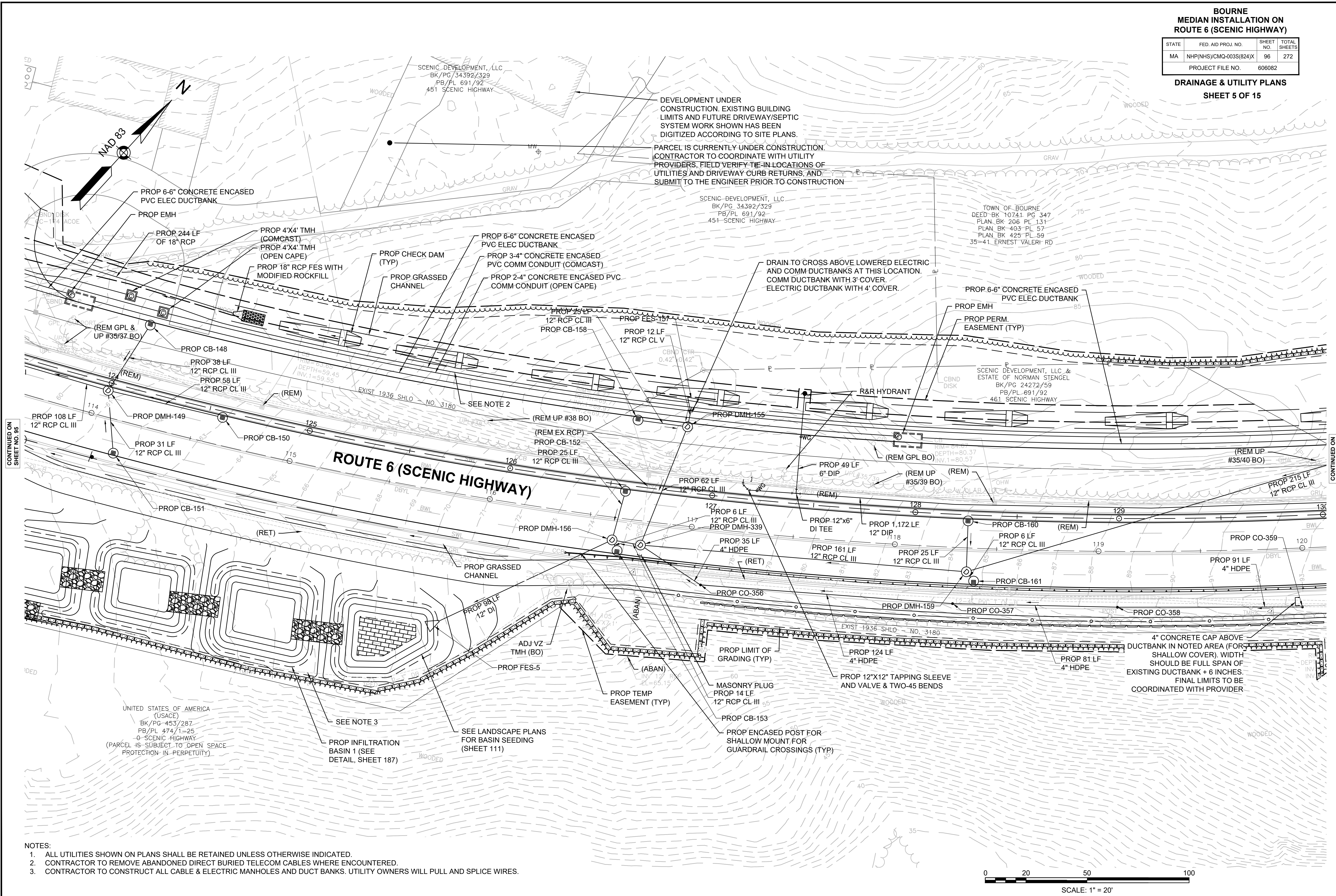
606082\_UT(D&U).DWG Plotted on 17-Mar-2025 11:43 AM



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	96	272
PROJECT FILE NO.		606082	

**DRAINAGE & UTILITY PLANS  
SHEET 5 OF 15**



DEVELOPMENT UNDER CONSTRUCTION. EXISTING BUILDING LIMITS AND FUTURE DRIVEWAY/SEPTIC SYSTEM WORK SHOWN HAS BEEN DIGITIZED ACCORDING TO SITE PLANS.

PARCEL IS CURRENTLY UNDER CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS, FIELD VERIFY TIE-IN LOCATIONS OF UTILITIES AND DRIVEWAY CURB RETURNS, AND SUBMIT TO THE ENGINEER PRIOR TO CONSTRUCTION

SCENIC DEVELOPMENT, LLC  
BK/PG 34392/329  
PB/PL 691/92  
451 SCENIC HIGHWAY

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

SCENIC DEVELOPMENT, LLC &  
ESTATE OF NORMAN STENGEL  
BK/PG 24272/59  
PB/PL 691/92  
461 SCENIC HIGHWAY

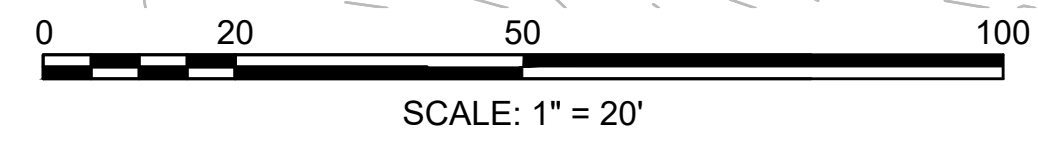
UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
0 SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN SPACE  
PROTECTION IN PERPETUITY)

PROP INFILTRATION  
BASIN 1 (SEE  
DETAIL, SHEET 187)

SEE LANDSCAPE PLANS  
FOR BASIN SEEDING  
(SHEET 111)

4" CONCRETE CAP ABOVE  
DUCTBANK IN NOTED AREA (FOR  
SHALLOW COVER). WIDTH  
SHOULD BE FULL SPAN OF  
EXISTING DUCTBANK + 6 INCHES.  
FINAL LIMITS TO BE  
COORDINATED WITH PROVIDER

- NOTES:
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.



CONTINUED ON  
SHEET NO. 95

CONTINUED ON  
SHEET NO. 97

606082\_UT1(DRAWING).DWG Plotted on 17-Mar-2025 11:45 AM



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	97	272
PROJECT FILE NO.		606082	

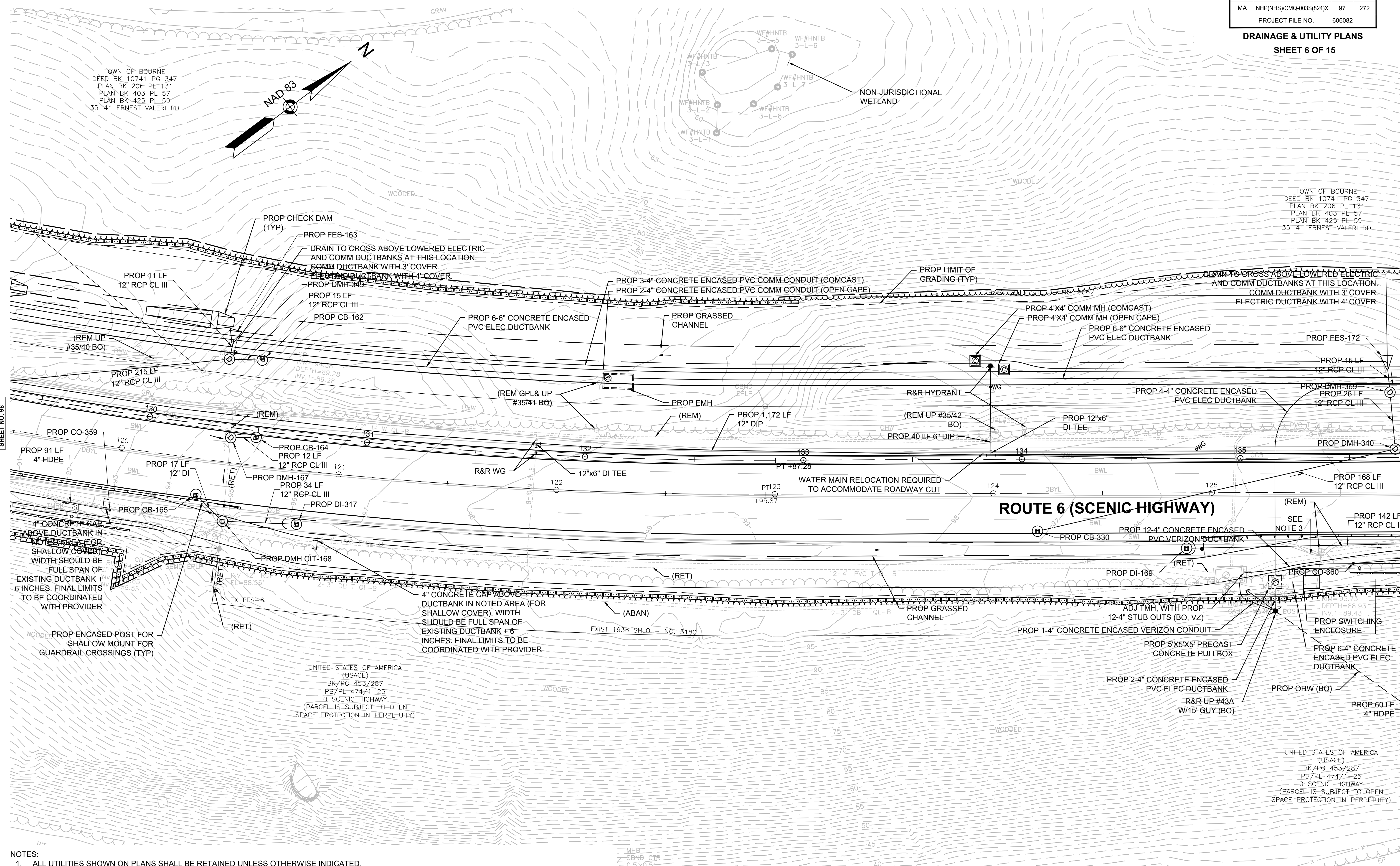
**DRAINAGE & UTILITY PLANS  
SHEET 6 OF 15**

TOWN OF BOURNE  
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PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

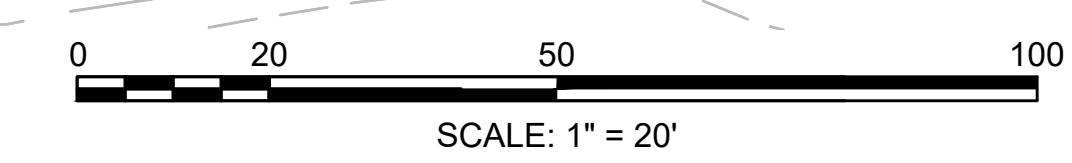
TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

CONTINUED ON  
SHEET NO. 96

CONTINUED ON  
SHEET NO. 98



- NOTES:**
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.



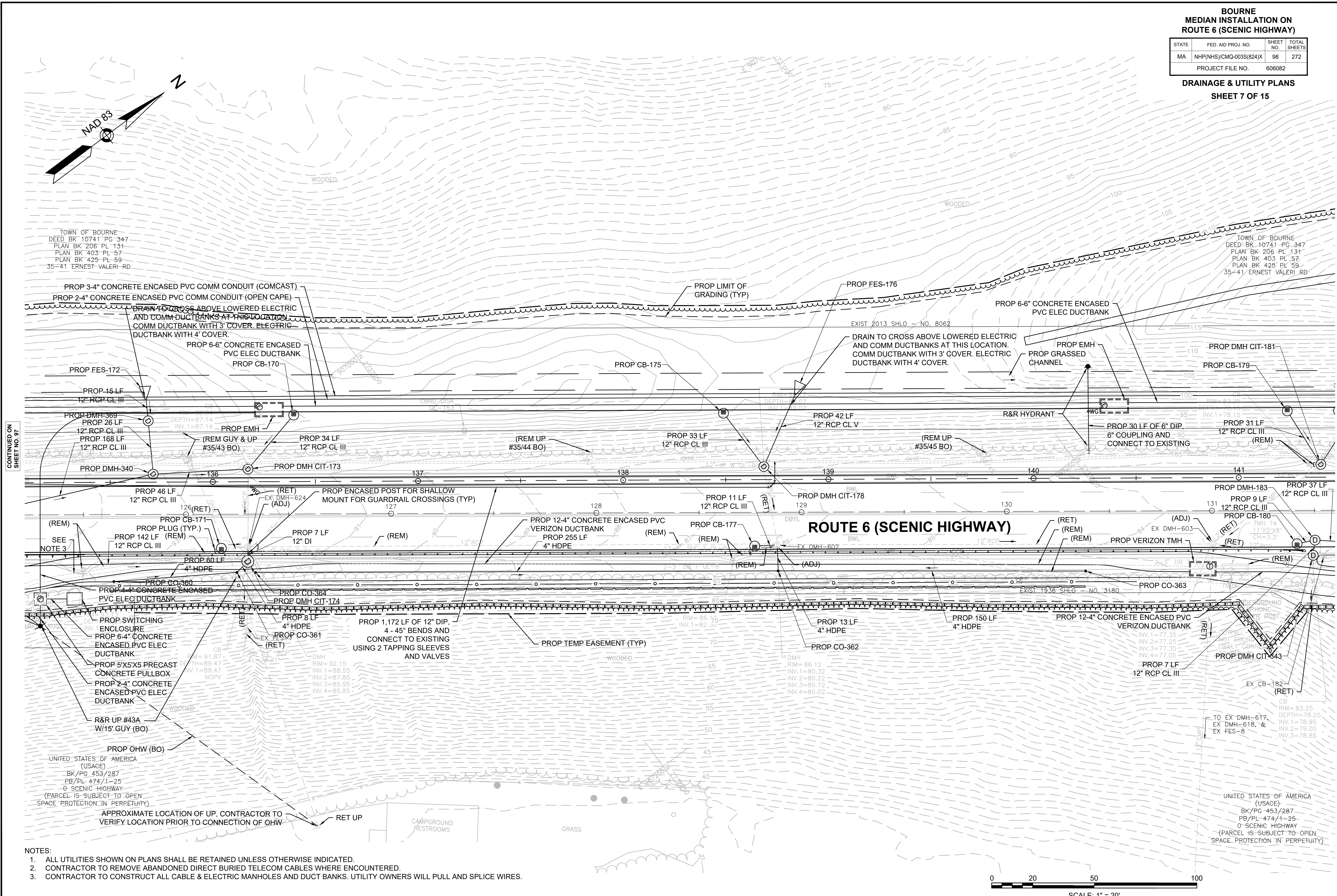
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**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	98	272

PROJECT FILE NO. 606082  
**DRAINAGE & UTILITY PLANS**  
SHEET 7 OF 15



TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

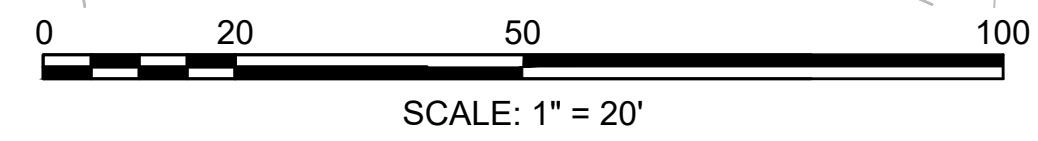
TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

CONTINUED ON  
SHEET NO. 97

CONTINUED ON  
SHEET NO. 98

**ROUTE 6 (SCENIC HIGHWAY)**

- NOTES:
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.

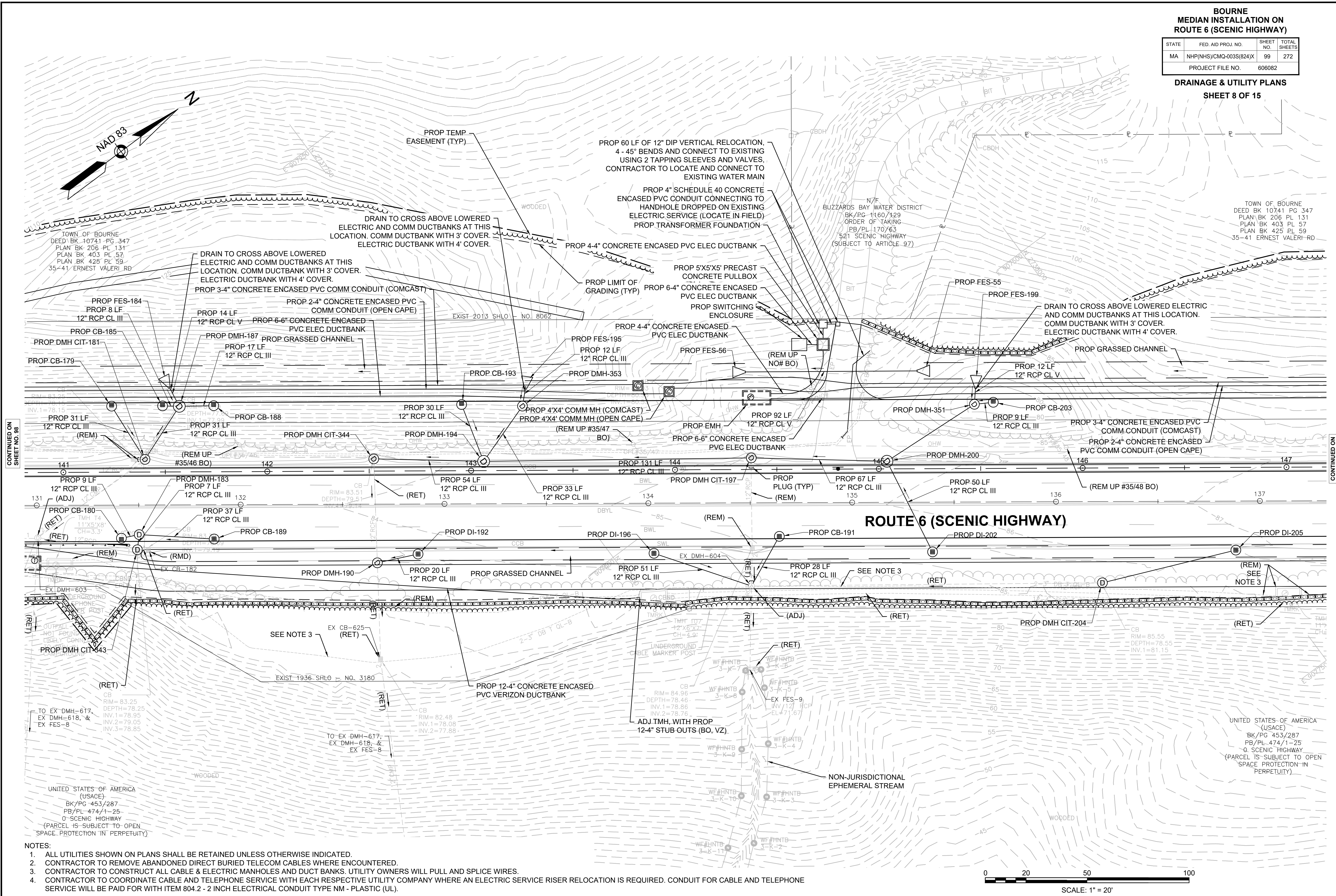




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	99	272
PROJECT FILE NO.		606082	

**DRAINAGE & UTILITY PLANS  
SHEET 8 OF 15**



TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

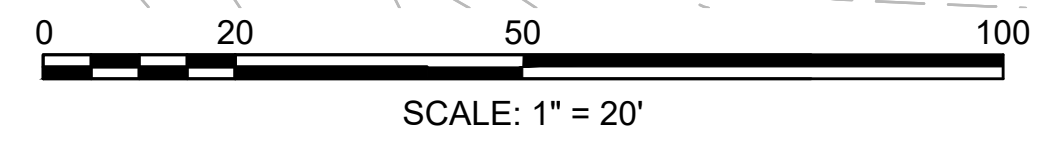
BUZZARDS BAY WATER DISTRICT  
BK/PG-1160/129  
ORDER OF TAKING  
PB/PL-170/63  
521 SCENIC HIGHWAY  
(SUBJECT TO ARTICLE 97)

UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
0 SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN  
SPACE PROTECTION IN  
PERPETUITY)

CONTINUED ON  
SHEET NO. 98

CONTINUED ON  
SHEET NO. 100

- NOTES:**
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.
  4. CONTRACTOR TO COORDINATE CABLE AND TELEPHONE SERVICE WITH EACH RESPECTIVE UTILITY COMPANY WHERE AN ELECTRIC SERVICE RISER RELOCATION IS REQUIRED. CONDUIT FOR CABLE AND TELEPHONE SERVICE WILL BE PAID FOR WITH ITEM 804.2 - 2 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL).



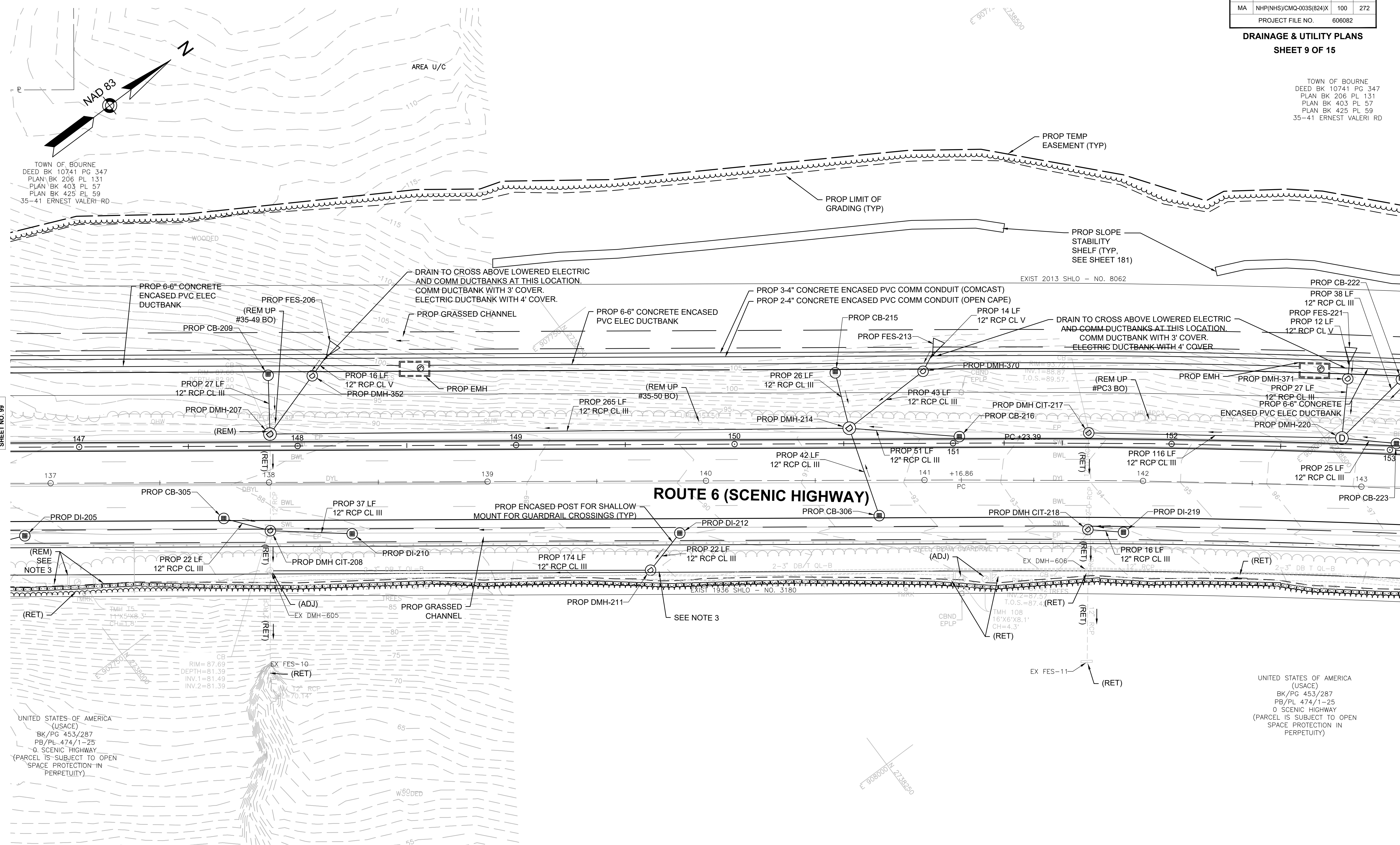


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	100	272

**DRAINAGE & UTILITY PLANS  
SHEET 9 OF 15**

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD



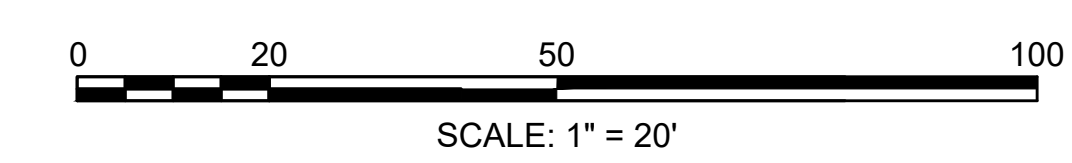
CONTINUED ON  
SHEET NO. 99

CONTINUED ON  
SHEET NO. 101

UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
0 SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN  
SPACE PROTECTION IN  
PERPETUITY)

UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
0 SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN  
SPACE PROTECTION IN  
PERPETUITY)

- NOTES:**
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.



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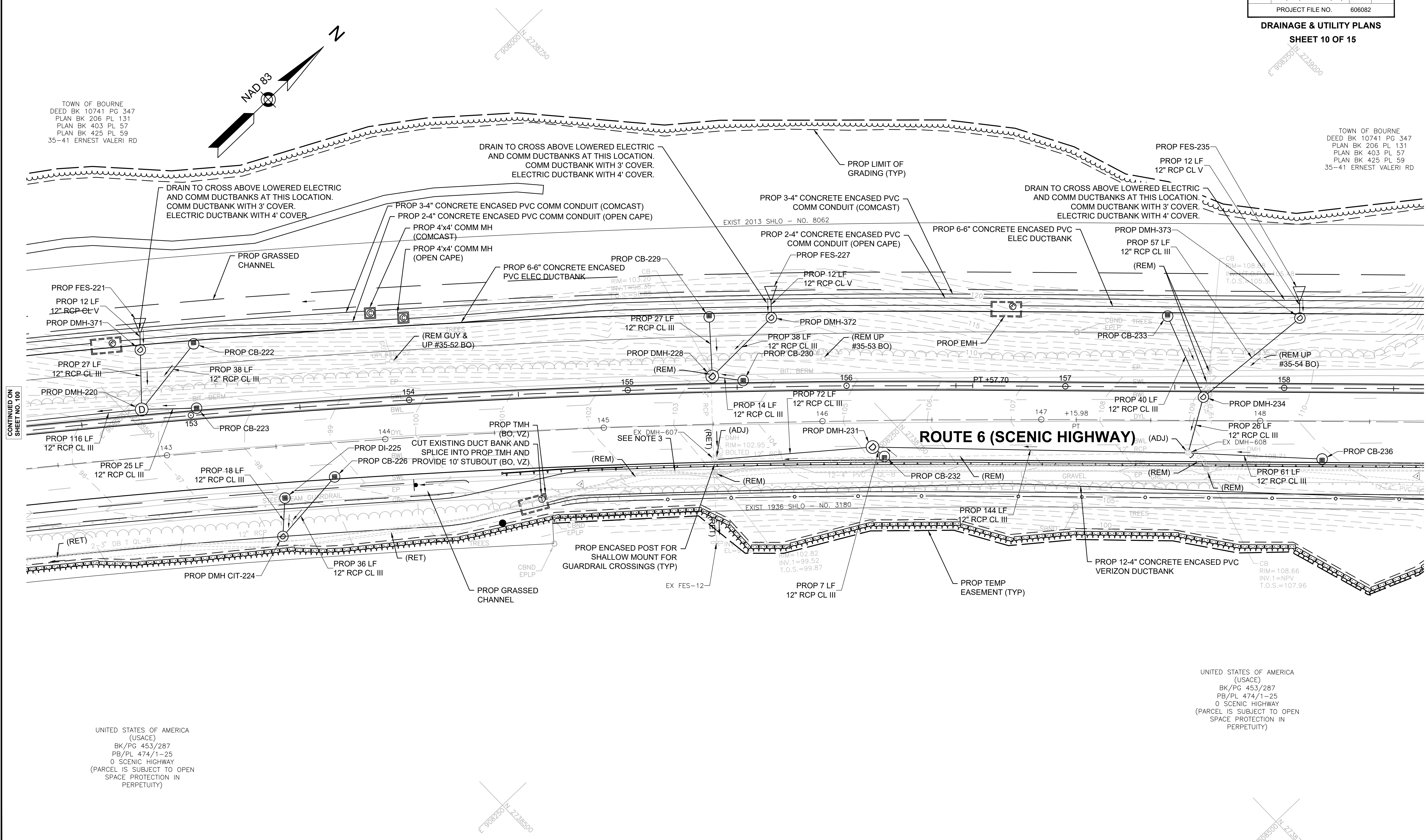
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	101	272

**DRAINAGE & UTILITY PLANS  
SHEET 10 OF 15**

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD



CONTINUED ON SHEET NO. 100

CONTINUED ON SHEET NO. 102

UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
O SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN  
SPACE PROTECTION IN  
PERPETUITY)

UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
O SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN  
SPACE PROTECTION IN  
PERPETUITY)

- NOTES:**
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.



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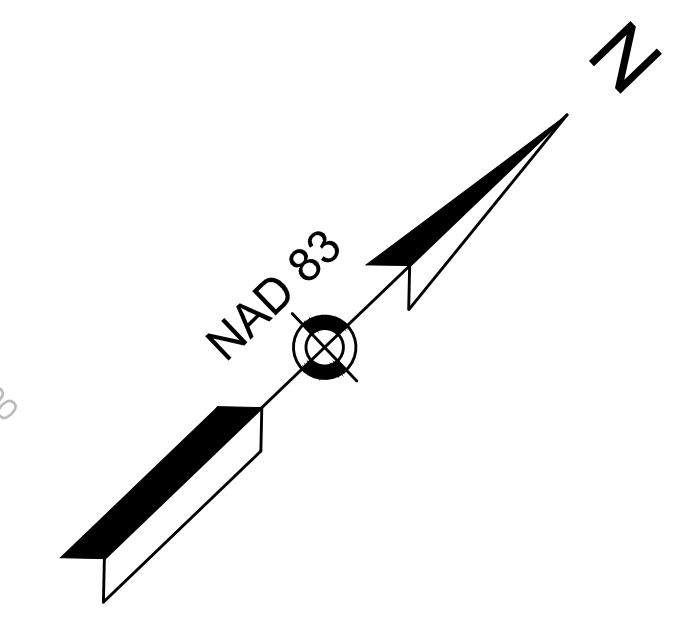


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

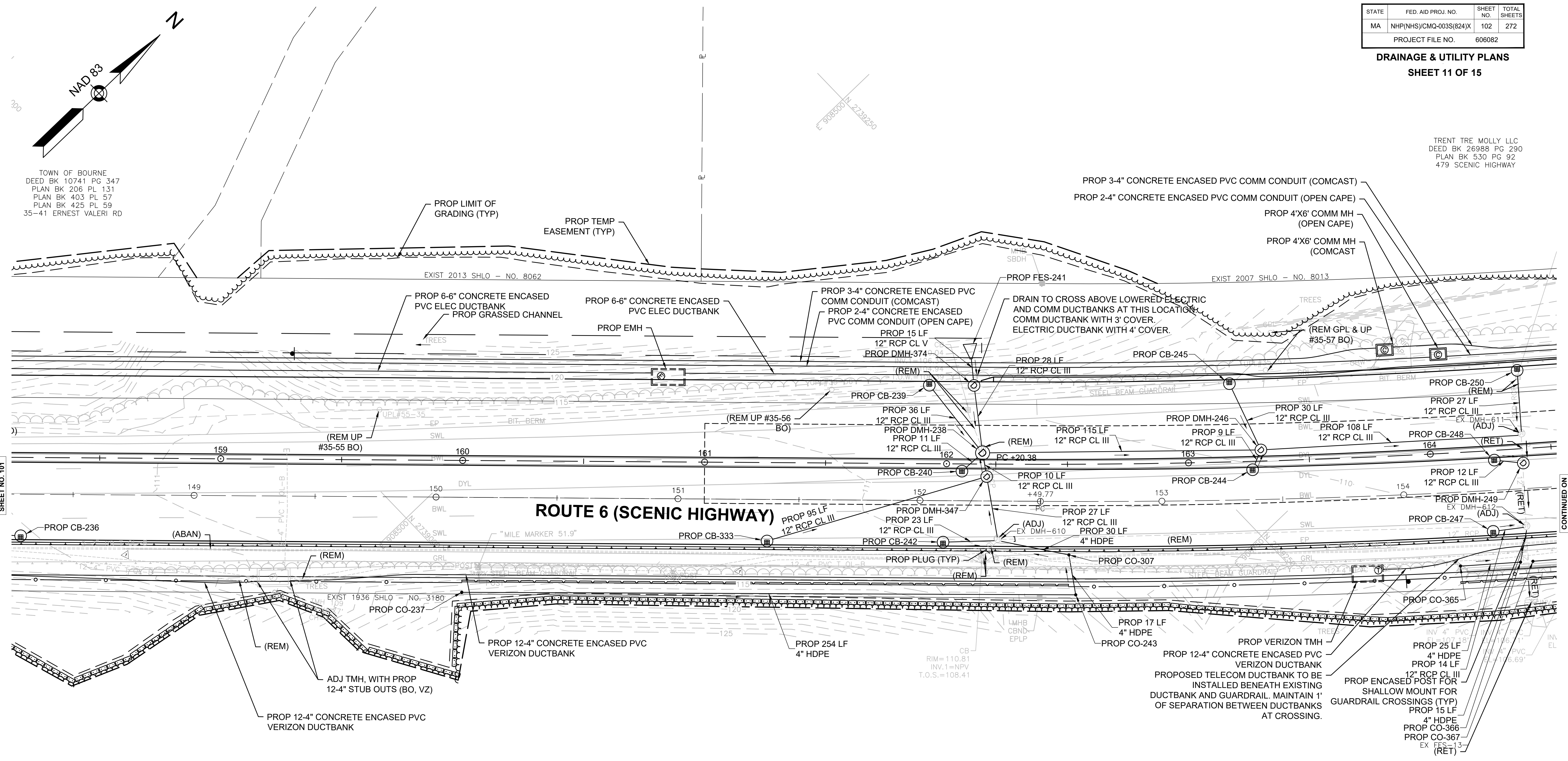
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	102	272

PROJECT FILE NO. 606082  
**DRAINAGE & UTILITY PLANS**  
SHEET 11 OF 15

TRENT TRE MOLLY LLC  
DEED BK 28988 PG 290  
PLAN BK 530 PG 92  
479 SCENIC HIGHWAY



TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD



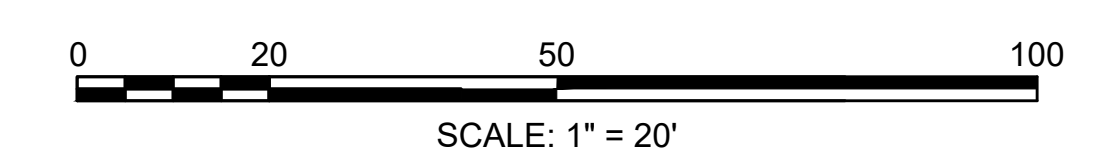
CONTINUED ON SHEET NO. 101

CONTINUED ON SHEET NO. 103

UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
0 SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN SPACE PROTECTION IN PERPETUITY)

UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
0 SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN SPACE PROTECTION IN PERPETUITY)

- NOTES:
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.





**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

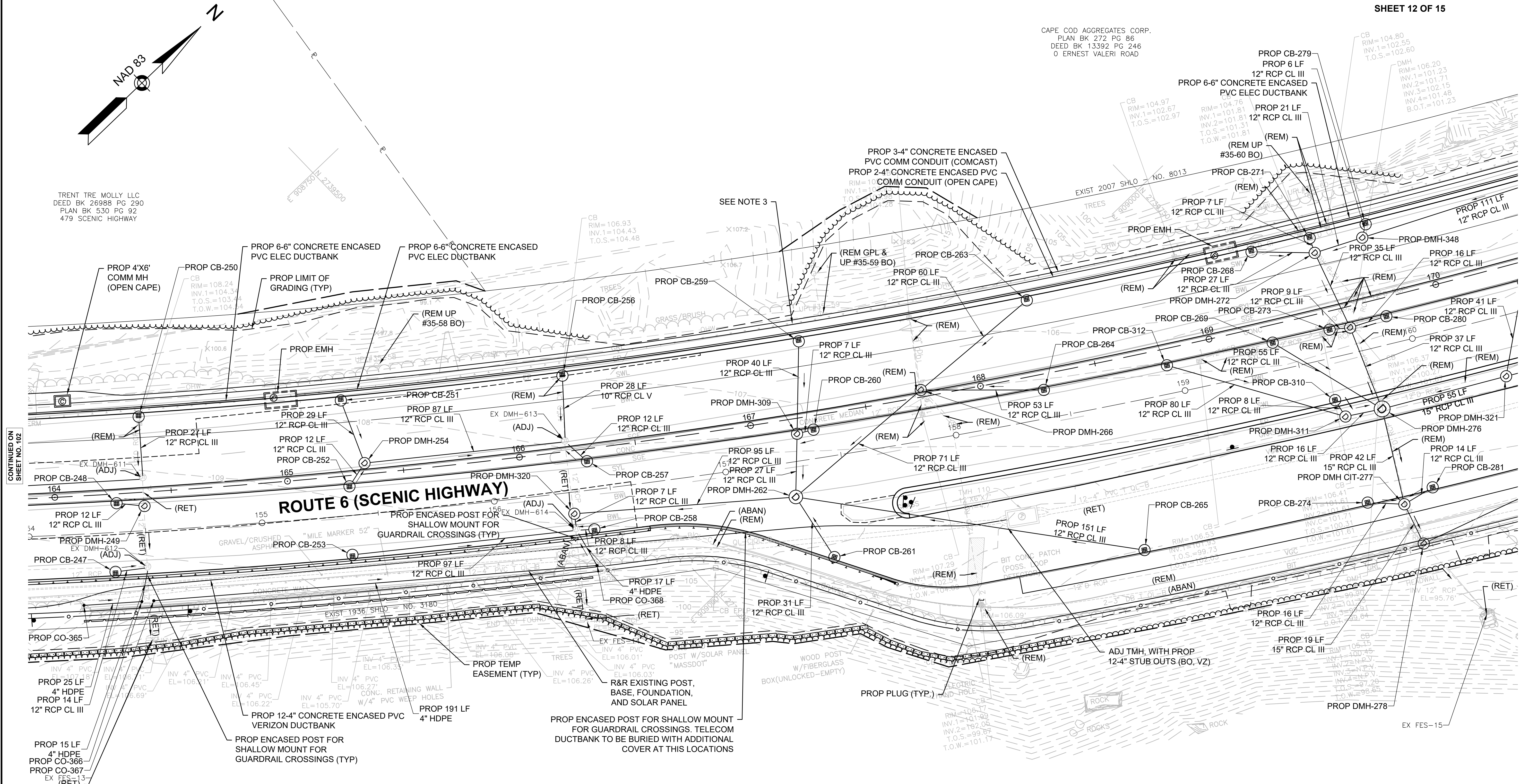
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	103	272

PROJECT FILE NO. 606082  
**SHEET 12 OF 15**

**DRAINAGE & UTILITY PLANS**

CAPE COD AGGREGATES CORP.  
PLAN BK 272 PG 86  
DEED BK 13392 PG 246  
O ERNEST VALERI ROAD

TRENT TRE MOLLY LLC  
DEED BK 26988 PG 290  
PLAN BK 530 PG 92  
479 SCENIC HIGHWAY

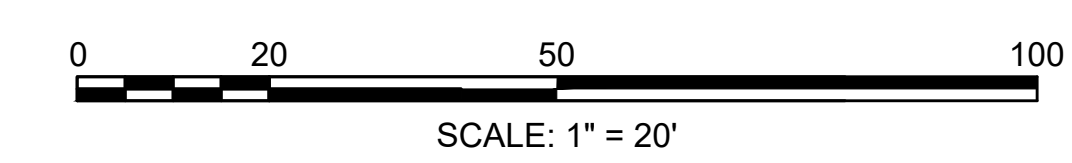


CONTINUED ON  
SHEET NO. 102

CONTINUED ON  
SHEET NO. 104

UNITED STATES OF AMERICA  
(USACE)  
BK/PG 453/287  
PB/PL 474/1-25  
O SCENIC HIGHWAY  
(PARCEL IS SUBJECT TO OPEN  
SPACE PROTECTION IN  
PERPETUITY)

- NOTES:**
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.



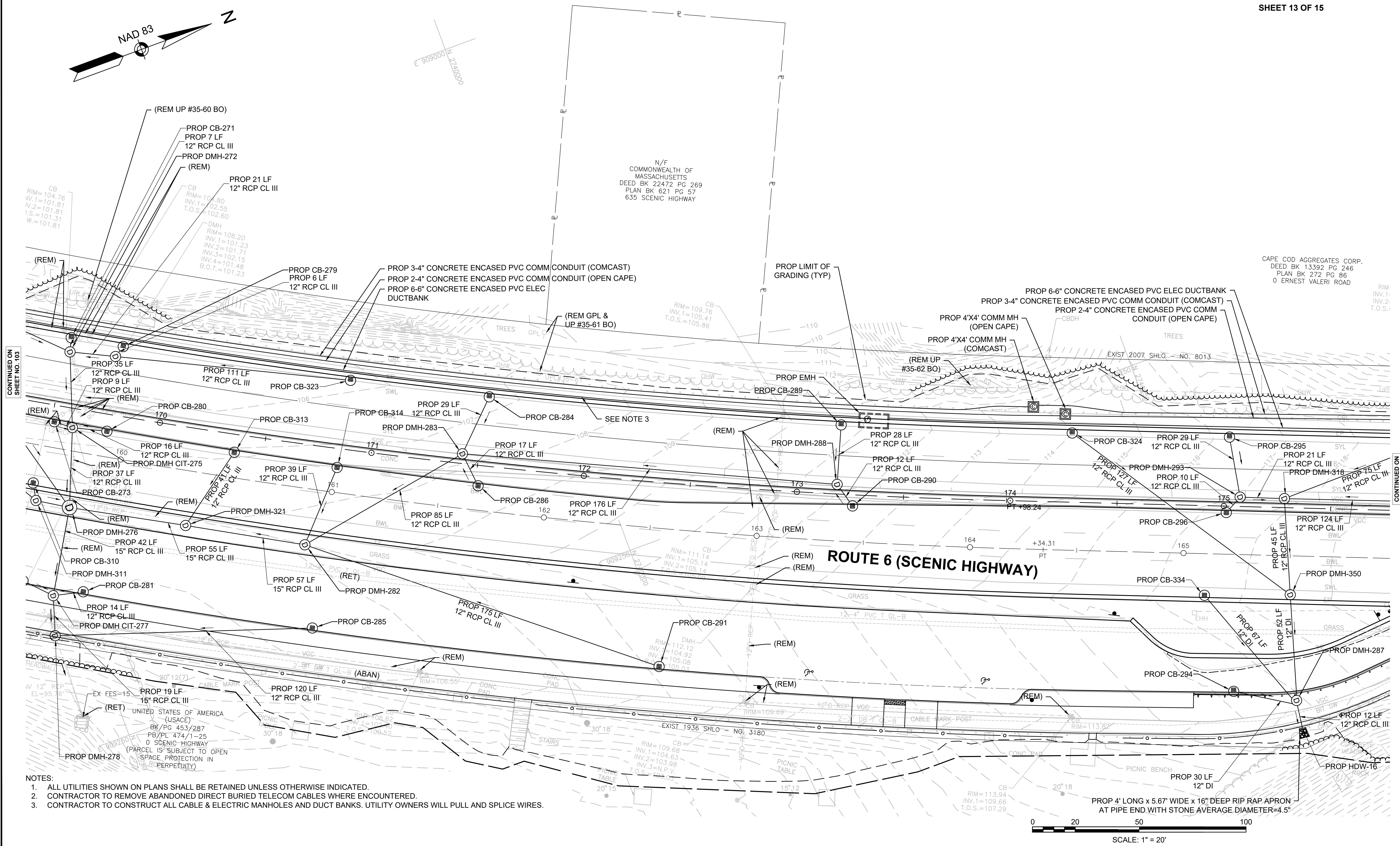


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	104	272
PROJECT FILE NO.		606082	

**DRAINAGE & UTILITY PLANS  
SHEET 13 OF 15**

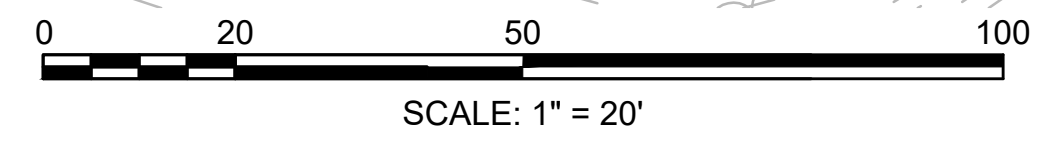
606082\_UT1(DRAIN&UT).DWG Plotted on 17-Mar-2025 11:52 AM



CONTINUED ON  
SHEET NO. 103

CONTINUED ON  
SHEET NO. 105

- NOTES:**
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.



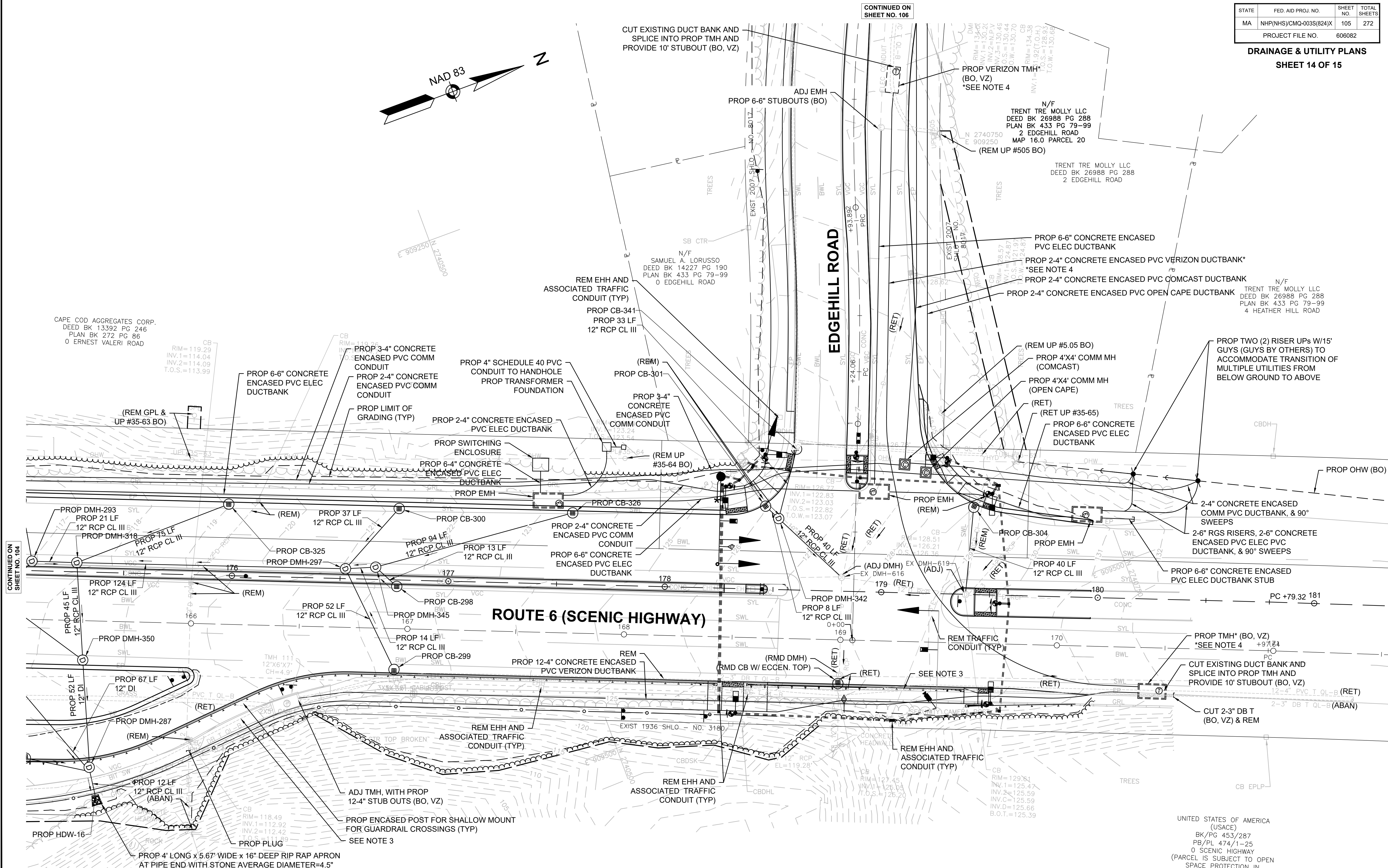
PROP 4' LONG x 5.67' WIDE x 16" DEEP RIP RAP APRON AT PIPE END WITH STONE AVERAGE DIAMETER=4.5"



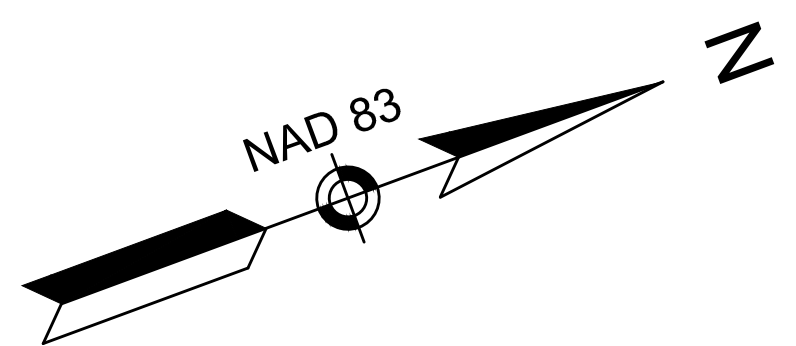
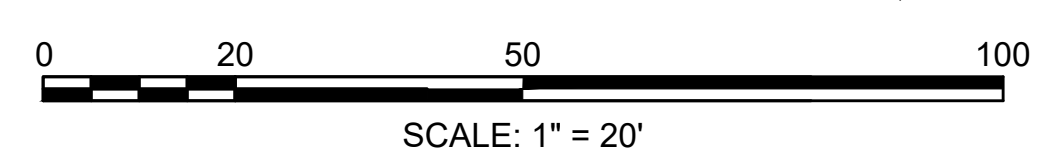
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	105	272

PROJECT FILE NO. 606082  
**DRAINAGE & UTILITY PLANS**  
SHEET 14 OF 15



- NOTES:
1. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
  2. CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
  3. CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.
  4. REFER TO STAGING PLANS (SHEET 147) FOR CONSTRUCTION SEQUENCING OF NOTED VERIZON TMH'S AND DUCTBANK. THESE TMH'S AND CONDUIT MUST BE INSTALLED DURING STAGE 2 PRIOR TO THE REMOVAL OF ALL EXISTING UTILITY POLES.



CONTINUED ON  
SHEET NO. 106

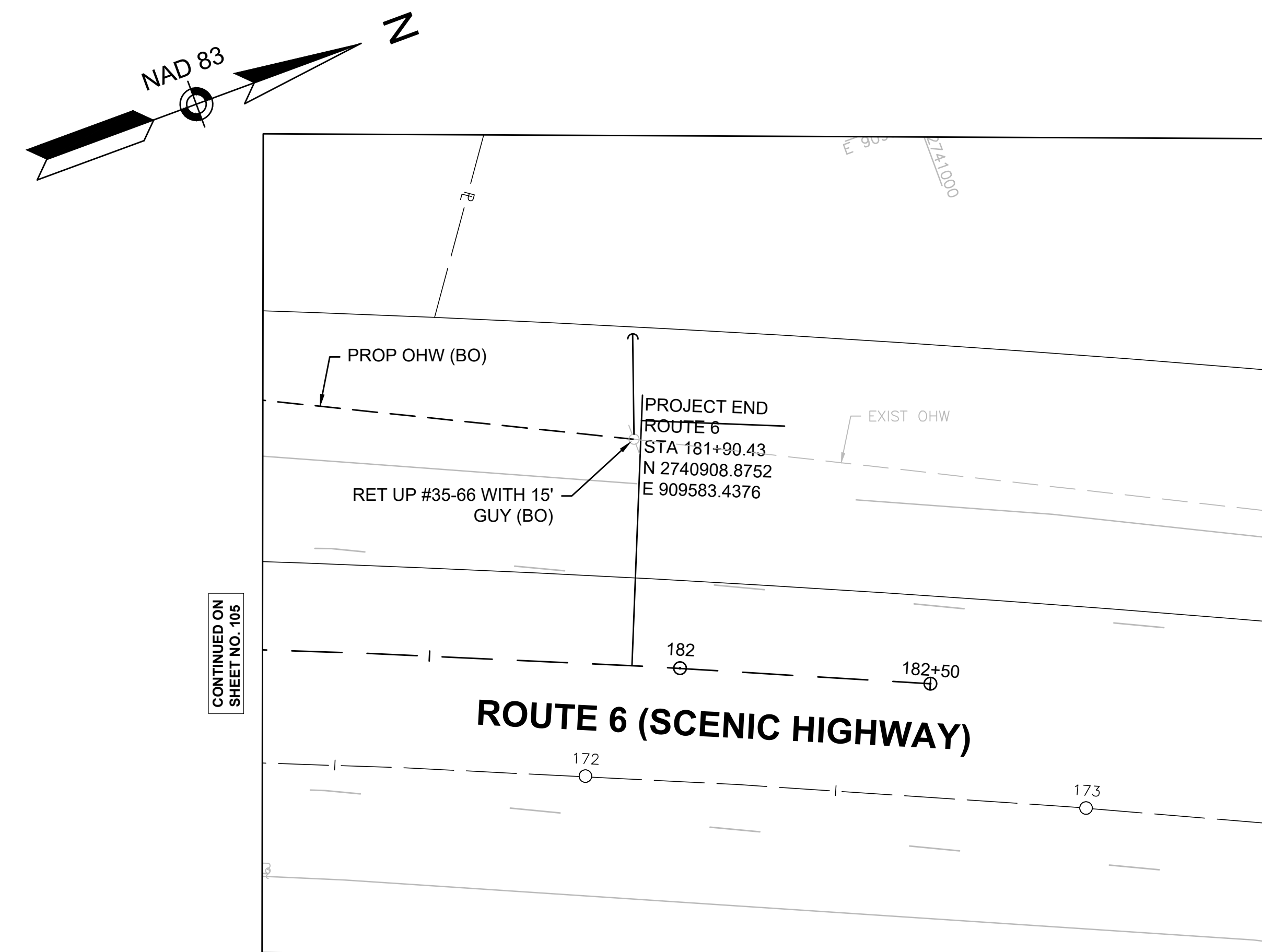
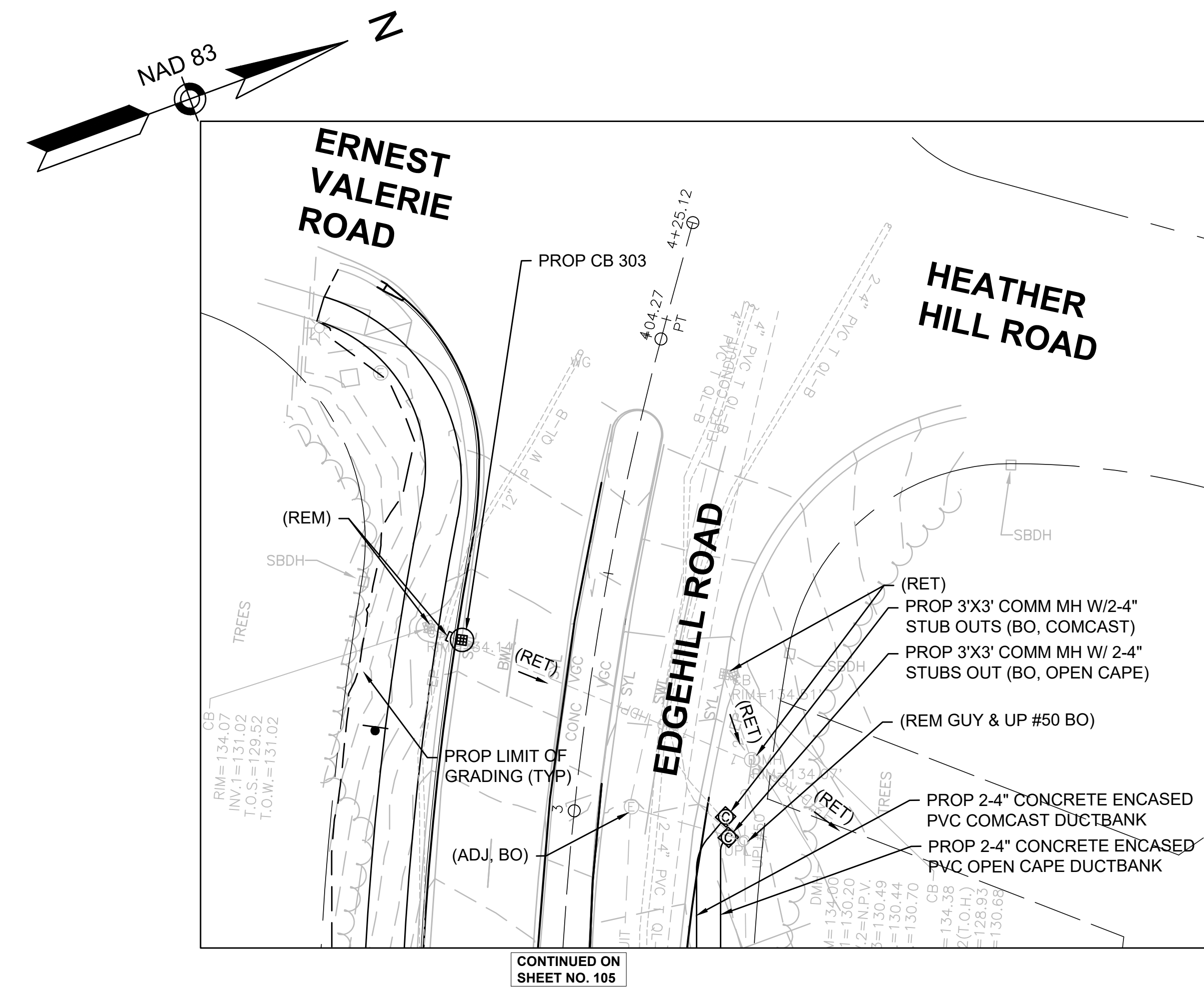
CONTINUED ON  
SHEET NO. 105

CONTINUED ON  
SHEET NO. 104

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

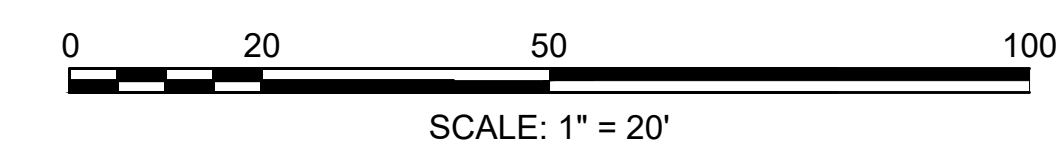
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	106	272
PROJECT FILE NO.		606082	

**DRAINAGE & UTILITY PLANS  
SHEET 15 OF 15**



**NOTES:**

- ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO REMOVE ABANDONED DIRECT BURIED TELECOM CABLES WHERE ENCOUNTERED.
- CONTRACTOR TO CONSTRUCT ALL CABLE & ELECTRIC MANHOLES AND DUCT BANKS. UTILITY OWNERS WILL PULL AND SPLICE WIRES.

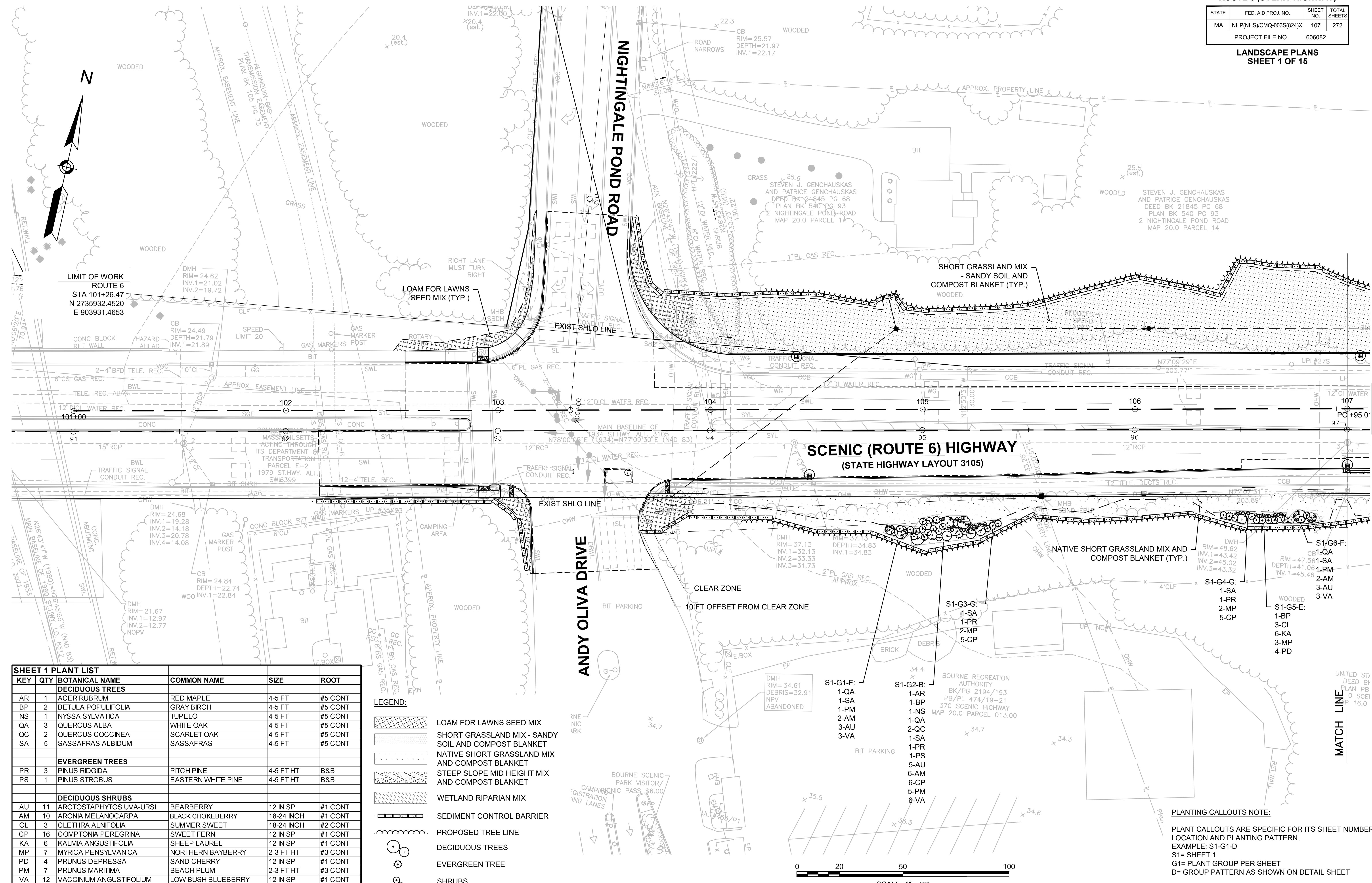




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	107	272
PROJECT FILE NO. 606082			

**LANDSCAPE PLANS  
SHEET 1 OF 15**

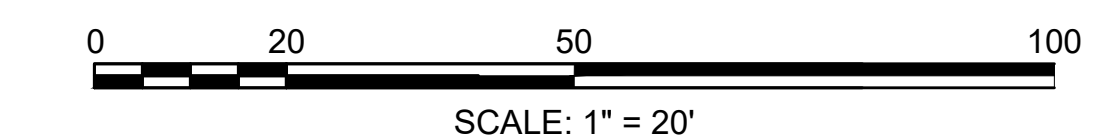


**SHEET 1 PLANT LIST**

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>DECIDUOUS TREES</b>					
AR	1	ACER RUBRUM	RED MAPLE	4-5 FT	#5 CONT
BP	2	BETULA POPULIFOLIA	GRAY BIRCH	4-5 FT	#5 CONT
NS	1	NYSSA SYLVATICA	TUPELO	4-5 FT	#5 CONT
QA	3	QUERCUS ALBA	WHITE OAK	4-5 FT	#5 CONT
QC	2	QUERCUS COCCINEA	SCARLET OAK	4-5 FT	#5 CONT
SA	5	SASSAFRAS ALBIDUM	SASSAFRAS	4-5 FT	#5 CONT
<b>EVERGREEN TREES</b>					
PR	3	PINUS RIDGIDA	PITCH PINE	4-5 FT HT	B&B
PS	1	PINUS STROBUS	EASTERN WHITE PINE	4-5 FT HT	B&B
<b>DECIDUOUS SHRUBS</b>					
AU	11	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	12 IN SP	#1 CONT
AM	10	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18-24 INCH	#1 CONT
CL	3	CLETHRA ALNIFOLIA	SUMMER SWEET	18-24 INCH	#2 CONT
CP	16	COMPTONIA PEREGRINA	SWEET FERN	12 IN SP	#1 CONT
KA	6	KALMIA ANGUSTIFOLIA	SHEEP LAUREL	12 IN SP	#1 CONT
MP	7	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3 FT HT	#3 CONT
PD	4	PRUNUS DEPRESSA	SAND CHERRY	12 IN SP	#1 CONT
PM	7	PRUNUS MARITIMA	BEACH PLUM	2-3 FT HT	#3 CONT
VA	12	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	12 IN SP	#1 CONT

- LEGEND:**
- LOAM FOR LAWNS SEED MIX
  - SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
  - NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
  - STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
  - WETLAND RIPARIAN MIX
  - SEDIMENT CONTROL BARRIER
  - PROPOSED TREE LINE
  - DECIDUOUS TREES
  - EVERGREEN TREE
  - SHRUBS

**PLANTING CALLOUTS NOTE:**  
 PLANT CALLOUTS ARE SPECIFIC FOR ITS SHEET NUMBER, LOCATION AND PLANTING PATTERN.  
 EXAMPLE: S1-G1-D  
 S1= SHEET 1  
 G1= PLANT GROUP PER SHEET  
 D= GROUP PATTERN AS SHOWN ON DETAIL SHEET

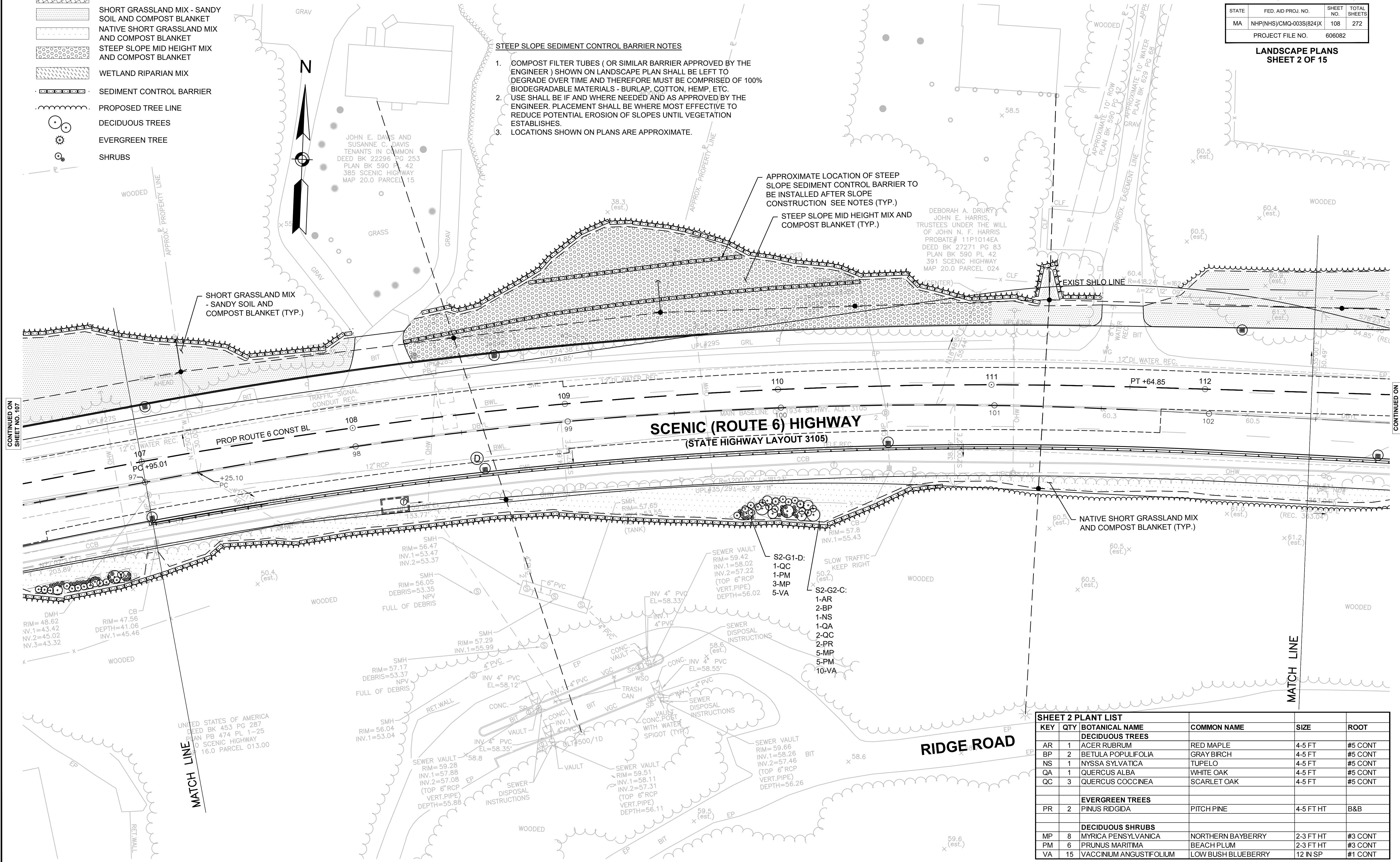


606082\_LD(LANDSCAPEPLANS)DWG Potted on 17-Mar-2025 10:29 AM



- LEGEND:**
- LOAM FOR LAWNS SEED MIX
  - SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
  - NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
  - STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
  - WETLAND RIPARIAN MIX
  - SEDIMENT CONTROL BARRIER
  - PROPOSED TREE LINE
  - DECIDUOUS TREES
  - EVERGREEN TREE
  - SHRUBS

- STEEP SLOPE SEDIMENT CONTROL BARRIER NOTES**
- COMPOST FILTER TUBES (OR SIMILAR BARRIER APPROVED BY THE ENGINEER) SHOWN ON LANDSCAPE PLAN SHALL BE LEFT TO DEGRADE OVER TIME AND THEREFORE MUST BE COMPRISED OF 100% BIODEGRADABLE MATERIALS - BURLAP, COTTON, HEMP, ETC.
  - USE SHALL BE IF AND WHERE NEEDED AND AS APPROVED BY THE ENGINEER. PLACEMENT SHALL BE WHERE MOST EFFECTIVE TO REDUCE POTENTIAL EROSION OF SLOPES UNTIL VEGETATION ESTABLISHES.
  - LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.



**SHEET 2 PLANT LIST**

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>DECIDUOUS TREES</b>					
AR	1	ACER RUBRUM	RED MAPLE	4-5 FT	#5 CONT
BP	2	BETULA POPULIFOLIA	GRAY BIRCH	4-5 FT	#5 CONT
NS	1	NYSSA SYLVATICA	TUPELO	4-5 FT	#5 CONT
QA	1	QUERCUS ALBA	WHITE OAK	4-5 FT	#5 CONT
QC	3	QUERCUS COCCINEA	SCARLET OAK	4-5 FT	#5 CONT
<b>EVERGREEN TREES</b>					
PR	2	PINUS RIDGIDA	PITCH PINE	4-5 FT HT	B&B
<b>DECIDUOUS SHRUBS</b>					
MP	8	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3 FT HT	#3 CONT
PM	6	PRUNUS MARITIMA	BEACH PLUM	2-3 FT HT	#3 CONT
VA	15	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	12 IN SP	#1 CONT

CONTINUED ON SHEET NO. 107

CONTINUED ON SHEET NO. 109



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

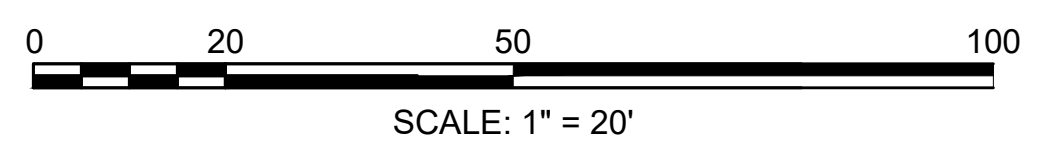
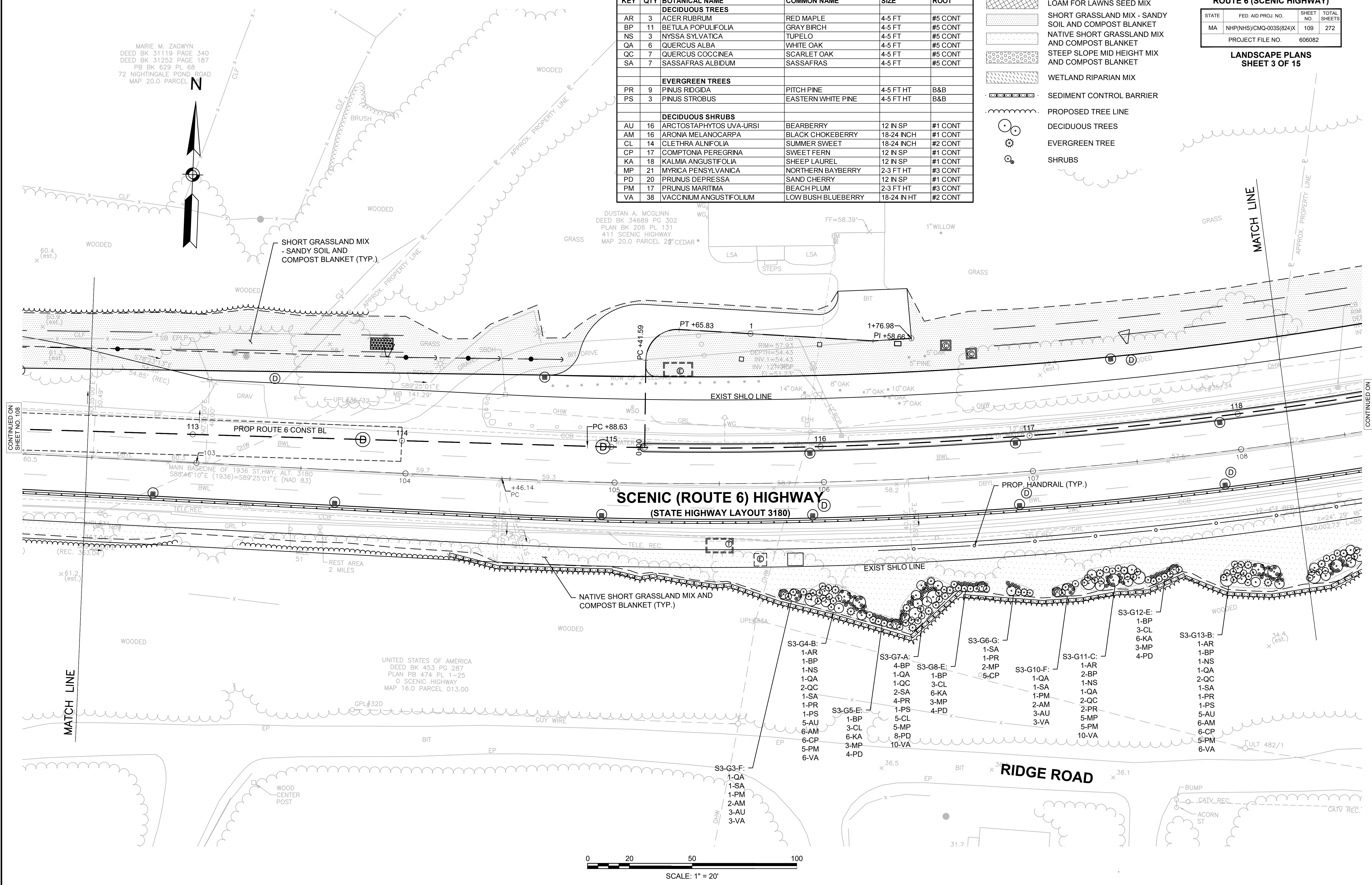
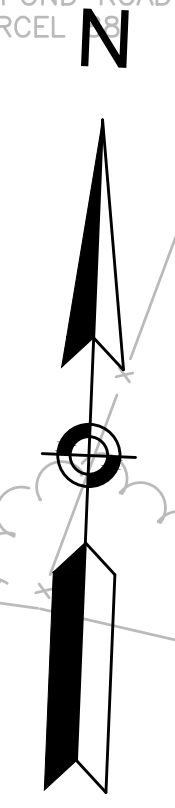
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	109	272
PROJECT FILE NO. 606082			

**LANDSCAPE PLANS  
SHEET 3 OF 15**

SHEET 3 PLANT LIST					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>DECIDUOUS TREES</b>					
AR	3	ACER RUBRUM	RED MAPLE	4-5 FT	#5 CONT
BP	11	BETULA POPULIFOLIA	GRAY BIRCH	4-5 FT	#5 CONT
NS	3	NYSSA SYLVATICA	TUPELO	4-5 FT	#5 CONT
QA	6	QUERCUS ALBA	WHITE OAK	4-5 FT	#5 CONT
QC	7	QUERCUS COCCINEA	SCARLET OAK	4-5 FT	#5 CONT
SA	7	SASSAFRAS ALBIDUM	SASSAFRAS	4-5 FT	#5 CONT
<b>EVERGREEN TREES</b>					
PR	9	PINUS RIDGIDA	PITCH PINE	4-5 FT HT	B&B
PS	3	PINUS STROBUS	EASTERN WHITE PINE	4-5 FT HT	B&B
<b>DECIDUOUS SHRUBS</b>					
AU	16	ARCTOSTAPHYTOS UVA-URSI	BEARBERRY	12 IN SP	#1 CONT
AM	16	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18-24 INCH	#1 CONT
CL	14	CLETHRA ALNIFOLIA	SUMMER SWEET	18-24 INCH	#2 CONT
CP	17	COMPTONIA PEREGRINA	SWEET FERN	12 IN SP	#1 CONT
KA	18	KALMIA ANGUSTIFOLIA	SHEEP LAUREL	12 IN SP	#1 CONT
MP	21	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3 FT HT	#3 CONT
PD	20	PRUNUS DEPRESSA	SAND CHERRY	12 IN SP	#1 CONT
PM	17	PRUNUS MARITIMA	BEACH PLUM	2-3 FT HT	#3 CONT
VA	38	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	18-24 IN HT	#2 CONT

- LEGEND:**
- LOAM FOR LAWNS SEED MIX
  - SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
  - NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
  - STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
  - WETLAND RIPARIAN MIX
  - SEDIMENT CONTROL BARRIER
  - PROPOSED TREE LINE
  - DECIDUOUS TREES
  - EVERGREEN TREE
  - SHRUBS

MARIE M. ZAGWYN  
DEED BK 31119 PAGE 340  
DEED BK 31252 PAGE 187  
PB BK 629 PL 68  
72 NIGHTINGALE POND ROAD  
MAP 20.0 PARCEL



CONTINUED ON  
SHEET NO. 108

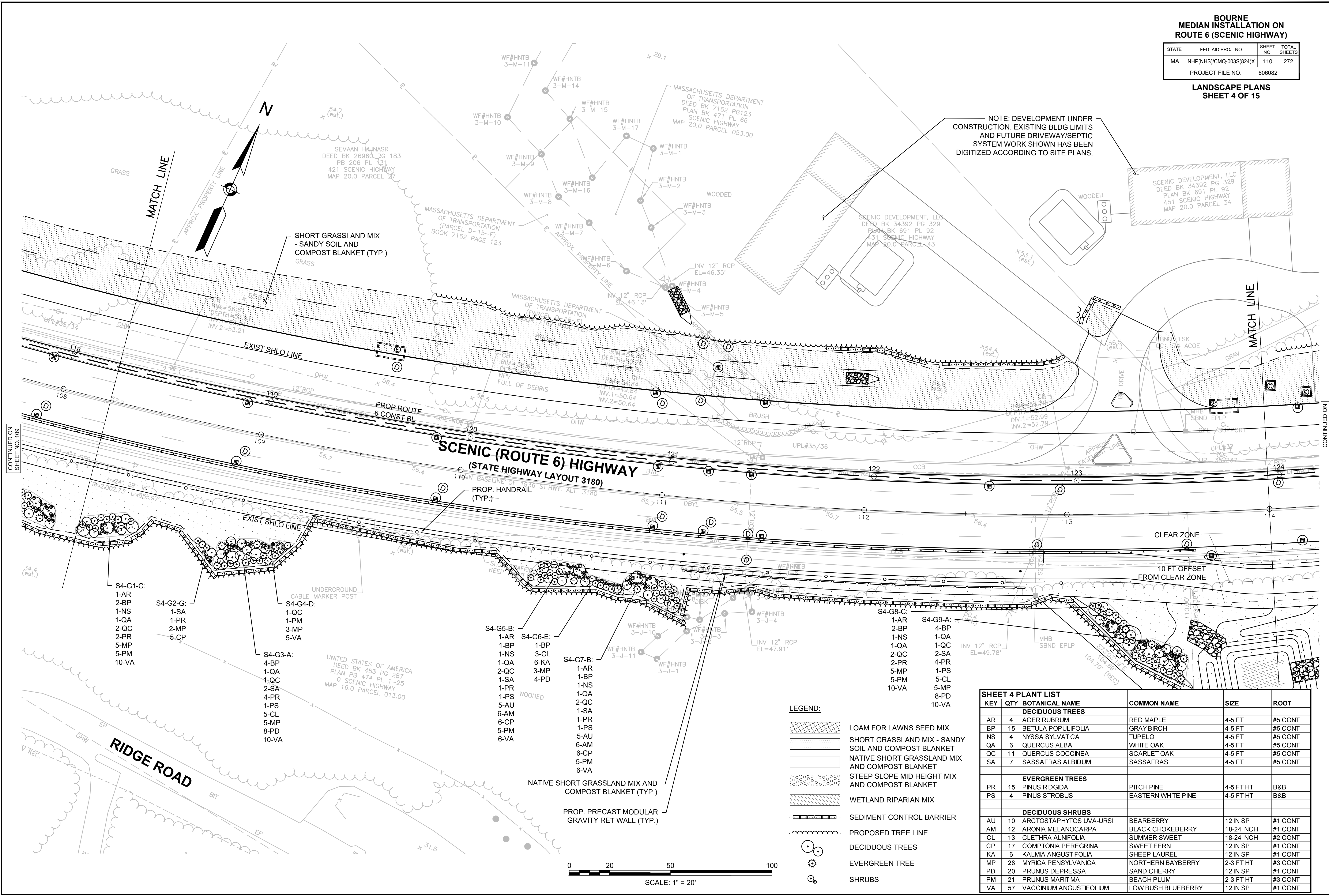
CONTINUED ON  
SHEET NO. 110



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	110	272
PROJECT FILE NO.			606082

**LANDSCAPE PLANS  
SHEET 4 OF 15**

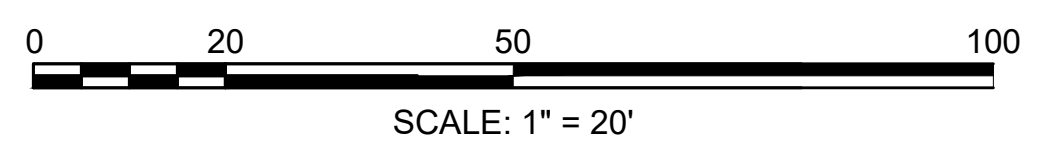


NOTE: DEVELOPMENT UNDER CONSTRUCTION. EXISTING BLDG LIMITS AND FUTURE DRIVEWAY/SEPTIC SYSTEM WORK SHOWN HAS BEEN DIGITIZED ACCORDING TO SITE PLANS.

**SHEET 4 PLANT LIST**

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>DECIDUOUS TREES</b>					
AR	4	ACER RUBRUM	RED MAPLE	4-5 FT	#5 CONT
BP	15	BETULA POPULIFOLIA	GRAY BIRCH	4-5 FT	#5 CONT
NS	4	NYSSA SYLVATICA	TUPELO	4-5 FT	#5 CONT
QA	6	QUERCUS ALBA	WHITE OAK	4-5 FT	#5 CONT
QC	11	QUERCUS COCCINEA	SCARLET OAK	4-5 FT	#5 CONT
SA	7	SASSAFRAS ALBIDUM	SASSAFRAS	4-5 FT	#5 CONT
<b>EVERGREEN TREES</b>					
PR	15	PINUS RIDGIDA	PITCH PINE	4-5 FT HT	B&B
PS	4	PINUS STROBUS	EASTERN WHITE PINE	4-5 FT HT	B&B
<b>DECIDUOUS SHRUBS</b>					
AU	10	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	12 IN SP	#1 CONT
AM	12	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18-24 INCH	#1 CONT
CL	13	CLETHRA ALNIFOLIA	SUMMER SWEET	18-24 INCH	#2 CONT
CP	17	COMPTONIA PEREGRINA	SWEET FERN	12 IN SP	#1 CONT
KA	6	KALMIA ANGUSTIFOLIA	SHEEP LAUREL	12 IN SP	#1 CONT
MP	28	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3 FT HT	#3 CONT
PD	20	PRUNUS DEPRESSA	SAND CHERRY	12 IN SP	#1 CONT
PM	21	PRUNUS MARTIMA	BEACH PLUM	2-3 FT HT	#3 CONT
VA	57	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	12 IN SP	#1 CONT

- LEGEND:**
- LOAM FOR LAWNS SEED MIX
  - SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
  - NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
  - WETLAND RIPARIAN MIX
  - SEDIMENT CONTROL BARRIER
  - PROPOSED TREE LINE
  - DECIDUOUS TREES
  - EVERGREEN TREE
  - SHRUBS



CONTINUED ON SHEET NO. 109

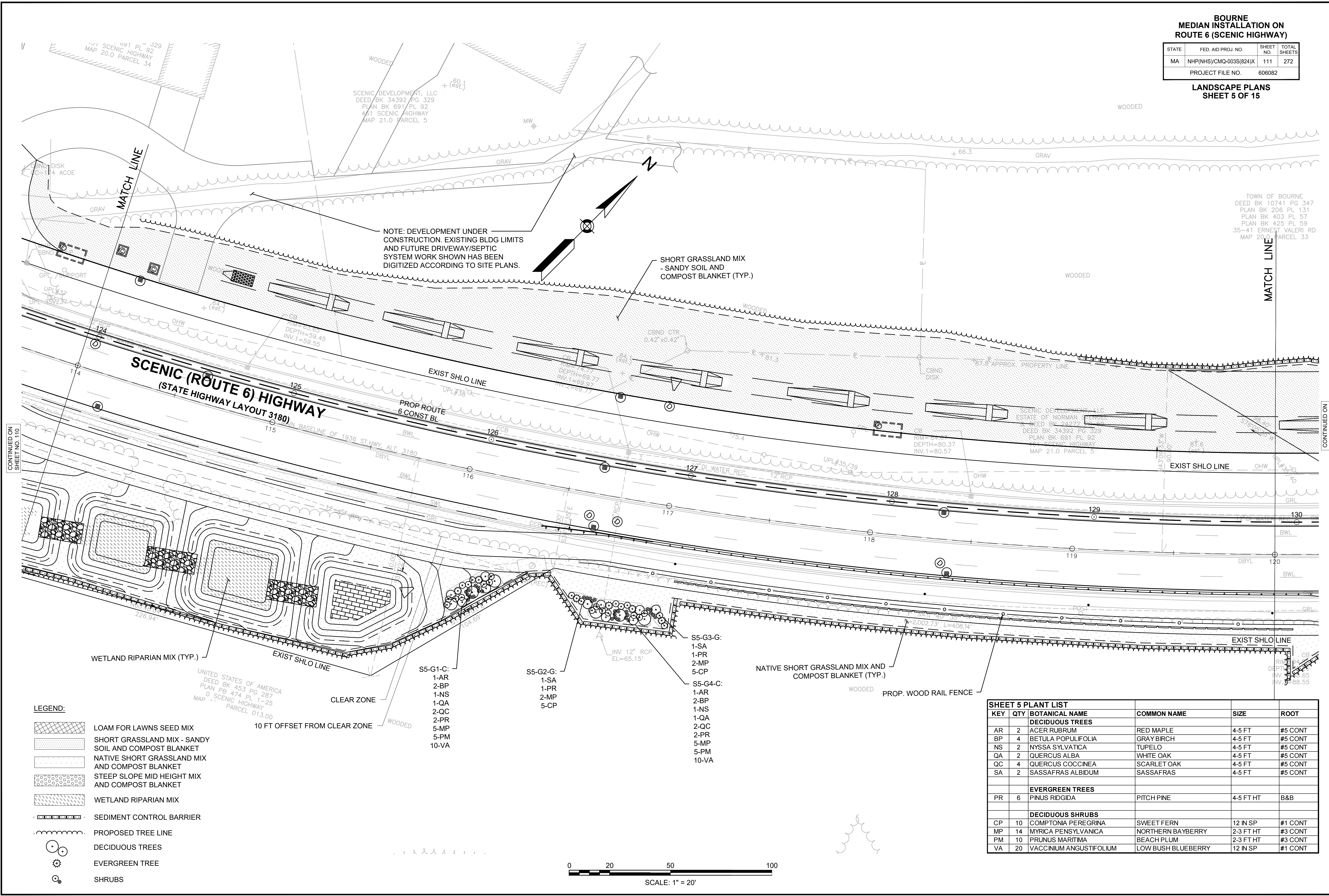
CONTINUED ON SHEET NO. 111



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	111	272
PROJECT FILE NO.		606082	

**LANDSCAPE PLANS  
SHEET 5 OF 15**



CONTINUED ON  
SHEET NO. 110

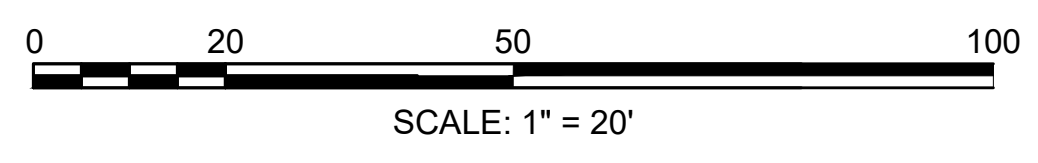
CONTINUED ON  
SHEET NO. 112

**LEGEND:**

- LOAM FOR LAWN'S SEED MIX
- SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
- NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
- STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
- WETLAND RIPARIAN MIX
- SEDIMENT CONTROL BARRIER
- PROPOSED TREE LINE
- DECIDUOUS TREES
- EVERGREEN TREE
- SHRUBS

- S5-G1-C:
  - 1-AR
  - 2-BP
  - 1-NS
  - 1-QA
  - 2-QC
  - 2-PR
  - 5-MP
  - 5-PM
  - 10-VA
- S5-G2-G:
  - 1-SA
  - 1-PR
  - 2-MP
  - 5-CP
- S5-G3-G:
  - 1-SA
  - 1-PR
  - 2-MP
  - 5-CP
- S5-G4-C:
  - 1-AR
  - 2-BP
  - 1-NS
  - 1-QA
  - 2-QC
  - 2-PR
  - 5-MP
  - 5-PM
  - 10-VA

SHEET 5 PLANT LIST					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>DECIDUOUS TREES</b>					
AR	2	ACER RUBRUM	RED MAPLE	4-5 FT	#5 CONT
BP	4	BETULA POPULIFOLIA	GRAY BIRCH	4-5 FT	#5 CONT
NS	2	NYSSA SYLVATICA	TUPELO	4-5 FT	#5 CONT
QA	2	QUERCUS ALBA	WHITE OAK	4-5 FT	#5 CONT
QC	4	QUERCUS COCCINEA	SCARLET OAK	4-5 FT	#5 CONT
SA	2	SASSAFRAS ALBIDUM	SASSAFRAS	4-5 FT	#5 CONT
<b>EVERGREEN TREES</b>					
PR	6	PINUS RIDGIDA	PITCH PINE	4-5 FT HT	B&B
<b>DECIDUOUS SHRUBS</b>					
CP	10	COMPTONIA PEREGRINA	SWEET FERN	12 IN SP	#1 CONT
MP	14	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3 FT HT	#3 CONT
PM	10	PRUNUS MARITIMA	BEACH PLUM	2-3 FT HT	#3 CONT
VA	20	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	12 IN SP	#1 CONT





**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	112	272
PROJECT FILE NO.		606082	

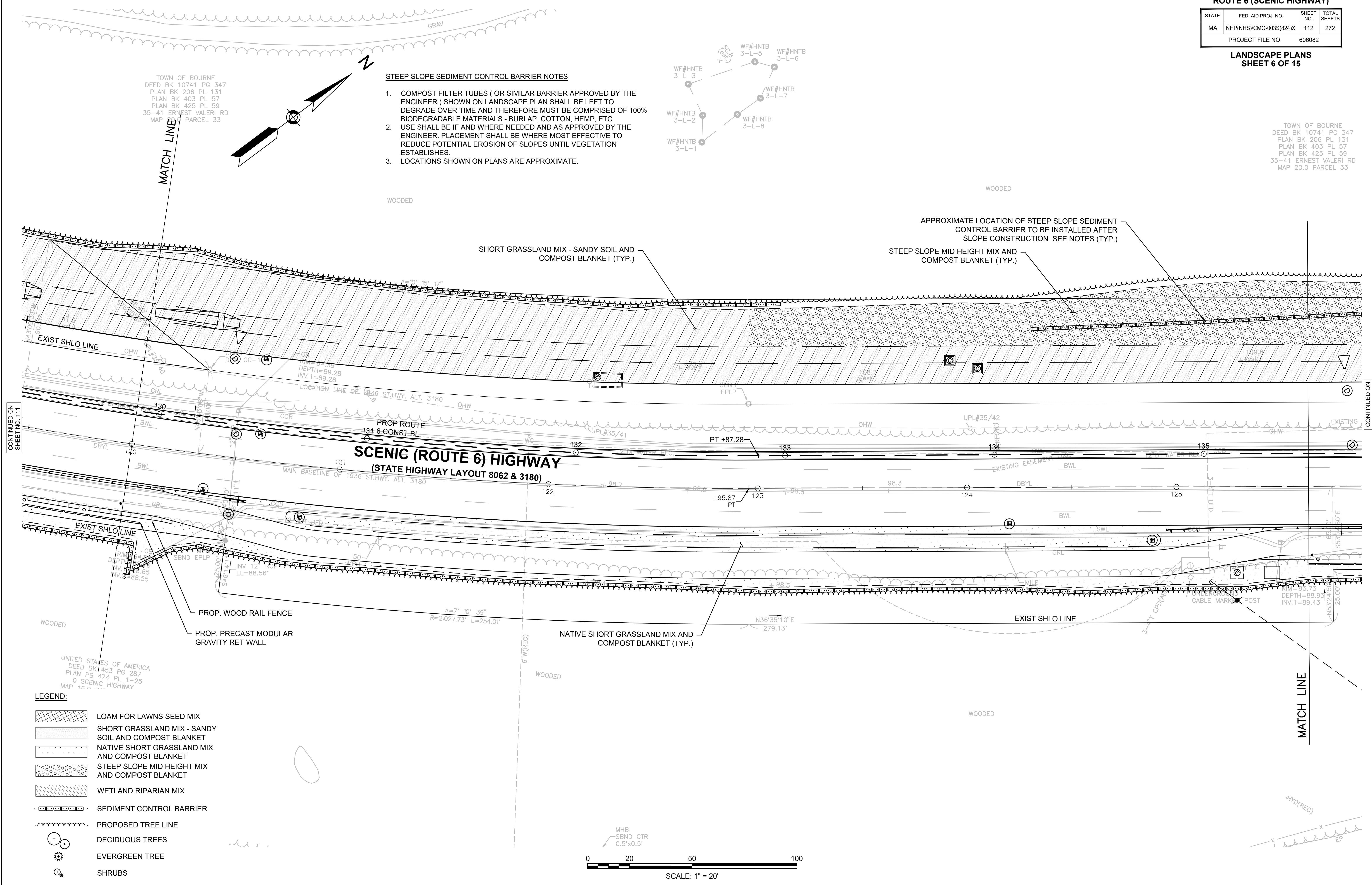
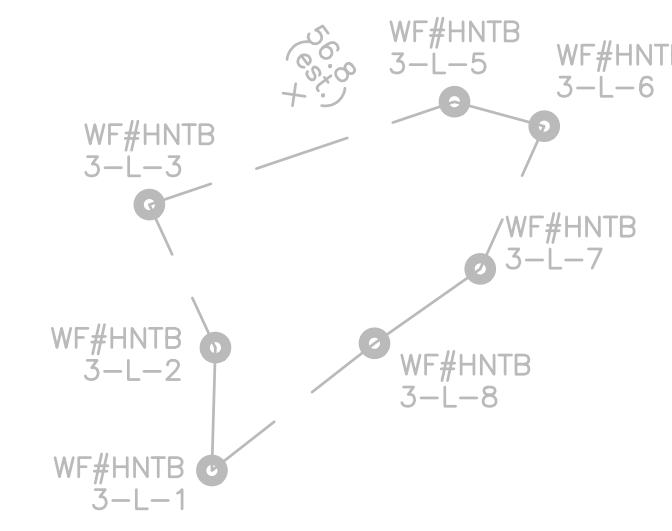
**LANDSCAPE PLANS  
SHEET 6 OF 15**

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

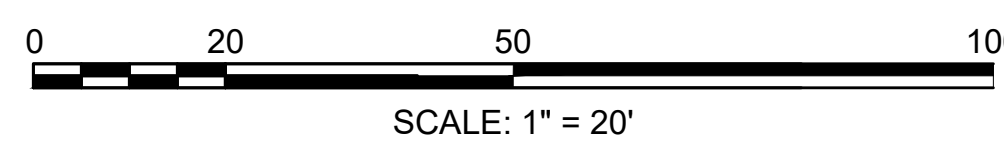
TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

**STEEP SLOPE SEDIMENT CONTROL BARRIER NOTES**

1. COMPOST FILTER TUBES ( OR SIMILAR BARRIER APPROVED BY THE ENGINEER ) SHOWN ON LANDSCAPE PLAN SHALL BE LEFT TO DEGRADE OVER TIME AND THEREFORE MUST BE COMPRISED OF 100% BIODEGRADABLE MATERIALS - BURLAP, COTTON, HEMP, ETC. USE SHALL BE IF AND WHERE NEEDED AND AS APPROVED BY THE ENGINEER. PLACEMENT SHALL BE WHERE MOST EFFECTIVE TO REDUCE POTENTIAL EROSION OF SLOPES UNTIL VEGETATION ESTABLISHES.
2. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.

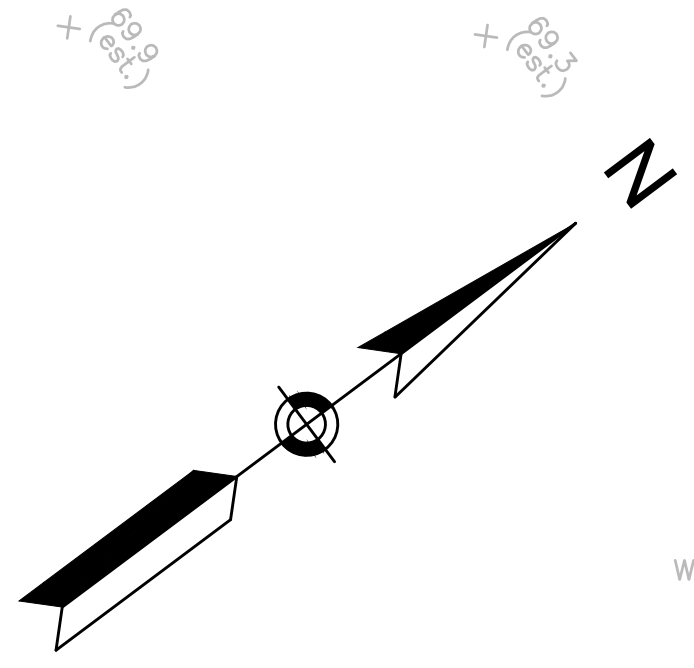


- LEGEND:**
- LOAM FOR LAWNS SEED MIX
  - SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
  - NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
  - STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
  - WETLAND RIPARIAN MIX
  - SEDIMENT CONTROL BARRIER
  - PROPOSED TREE LINE
  - DECIDUOUS TREES
  - EVERGREEN TREE
  - SHRUBS





TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33



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**STEEP SLOPE SEDIMENT CONTROL BARRIER NOTES**

1. COMPOST FILTER TUBES ( OR SIMILAR BARRIER APPROVED BY THE ENGINEER ) SHOWN ON LANDSCAPE PLAN SHALL BE LEFT TO DEGRADE OVER TIME AND THEREFORE MUST BE COMPRISED OF 100% BIODEGRADABLE MATERIALS - BURLAP, COTTON, HEMP, ETC.
2. USE SHALL BE IF AND WHERE NEEDED AND AS APPROVED BY THE ENGINEER. PLACEMENT SHALL BE WHERE MOST EFFECTIVE TO REDUCE POTENTIAL EROSION OF SLOPES UNTIL VEGETATION ESTABLISHES.
3. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.

**LEGEND:**

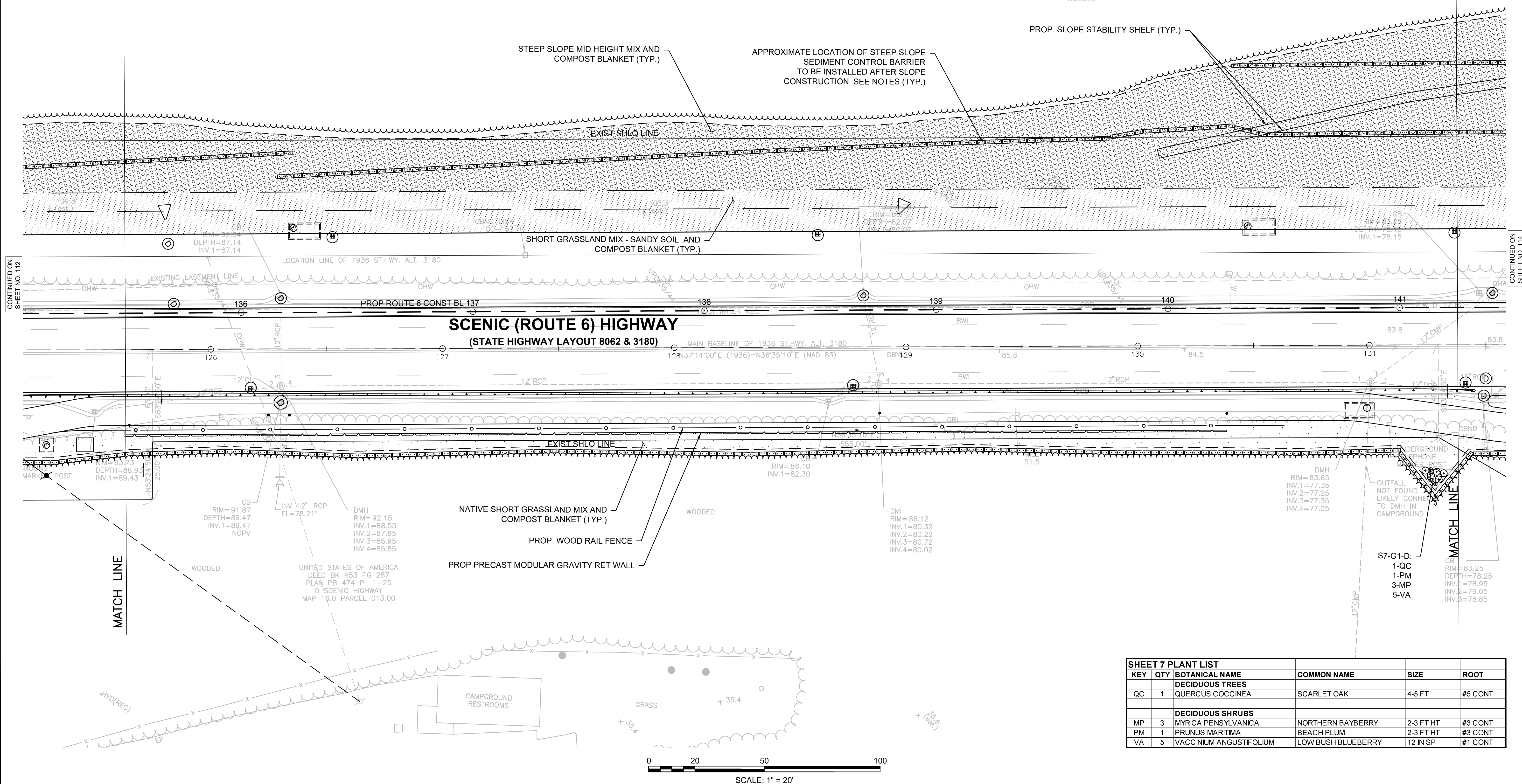
- LOAM FOR LAWNS SEED MIX
- SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
- NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
- STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
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- SHRUBS

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	113	272
PROJECT FILE NO.			606082

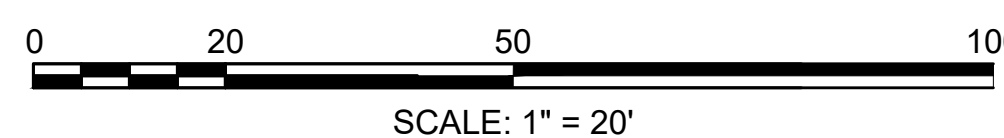
**LANDSCAPE PLANS  
SHEET 7 OF 15**

TOWN OF BOURNE  
DEED BK 10741 PG  
PLAN BK 206 PL  
PLAN BK 403 PL  
PLAN BK 425 PL  
35-41 ERNEST VALE  
MAP 20.0 PARCEL



**SHEET 7 PLANT LIST**

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>DECIDUOUS TREES</b>					
QC	1	QUERCUS COCCINEA	SCARLET OAK	4-5 FT	#5 CONT
<b>DECIDUOUS SHRUBS</b>					
MP	3	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3 FT HT	#3 CONT
PM	1	PRUNUS MARITIMA	BEACH PLUM	2-3 FT HT	#3 CONT
VA	5	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	12 IN SP	#1 CONT



CONTINUED ON SHEET NO. 112

CONTINUED ON SHEET NO. 114



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	114	272
PROJECT FILE NO.		606082	

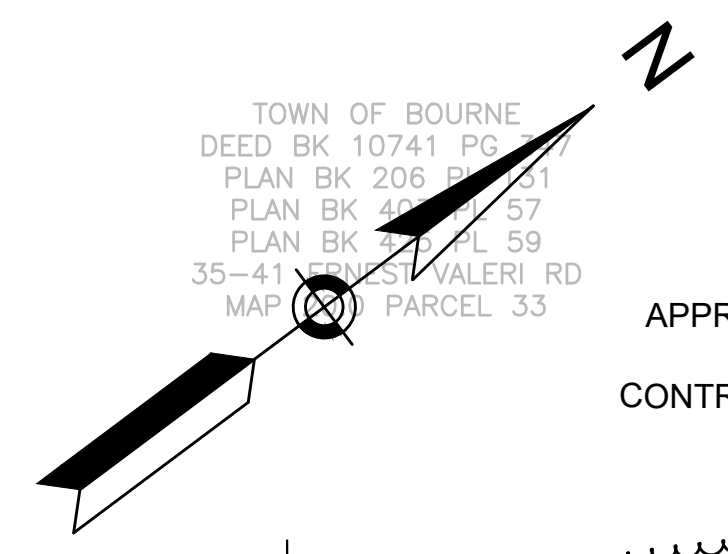
**LANDSCAPE PLANS  
SHEET 8 OF 15**

**LEGEND:**

- LOAM FOR LAWNS SEED MIX
- SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
- NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
- STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
- WETLAND RIPARIAN MIX
- SEDIMENT CONTROL BARRIER
- PROPOSED TREE LINE
- DECIDUOUS TREES
- EVERGREEN TREE
- SHRUBS

**STEEP SLOPE SEDIMENT CONTROL BARRIER NOTES**

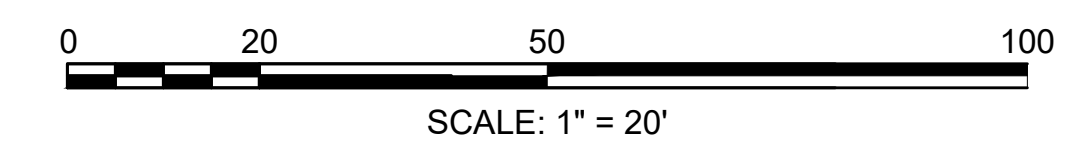
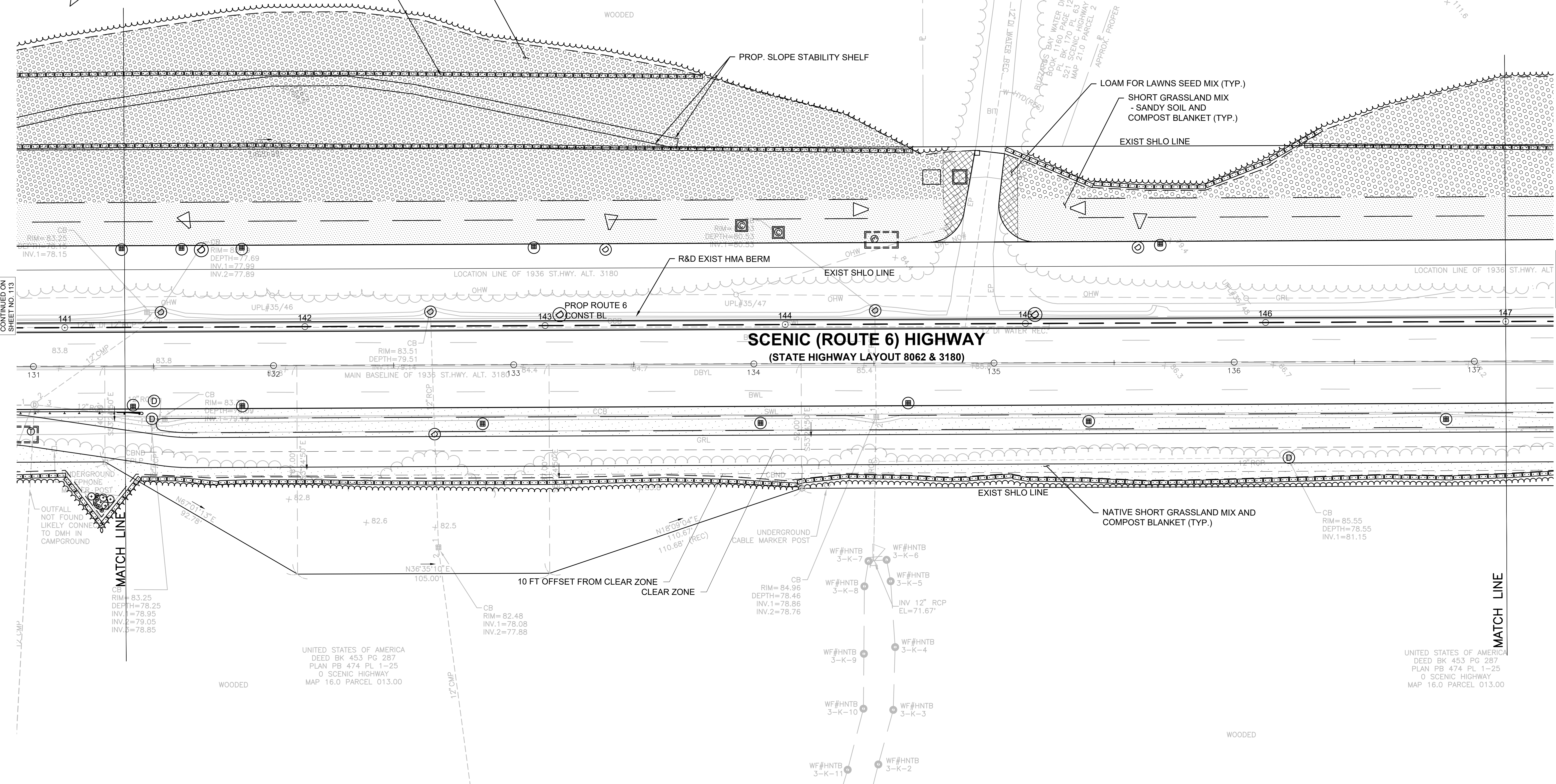
1. COMPOST FILTER TUBES (OR SIMILAR BARRIER APPROVED BY THE ENGINEER) SHOWN ON LANDSCAPE PLAN SHALL BE LEFT TO DEGRADE OVER TIME AND THEREFORE MUST BE COMPRISED OF 100% BIODEGRADABLE MATERIALS - BURLAP, COTTON, HEMP, ETC.
2. USE SHALL BE IF AND WHERE NEEDED AND AS APPROVED BY THE ENGINEER. PLACEMENT SHALL BE WHERE MOST EFFECTIVE TO REDUCE POTENTIAL EROSION OF SLOPES UNTIL VEGETATION ESTABLISHES.
3. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.



TOWN OF BOURNE  
DEED BK 10741 PG 34  
PLAN BK 206 PL 57  
PLAN BK 474 PL 59  
35-41 W. WALERI RD  
MAP 16.0 PARCEL 33

APPROXIMATE LOCATION OF STEEP SLOPE SEDIMENT CONTROL BARRIER TO BE INSTALLED AFTER SLOPE CONSTRUCTION SEE NOTES (TYP.)

STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET (TYP.)



CONTINUED ON SHEET NO. 113

CONTINUED ON SHEET NO. 115

MATCH LINE

MATCH LINE

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00



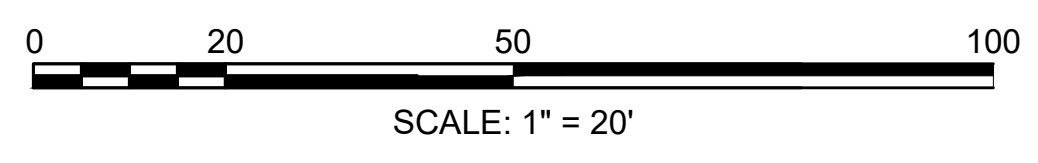
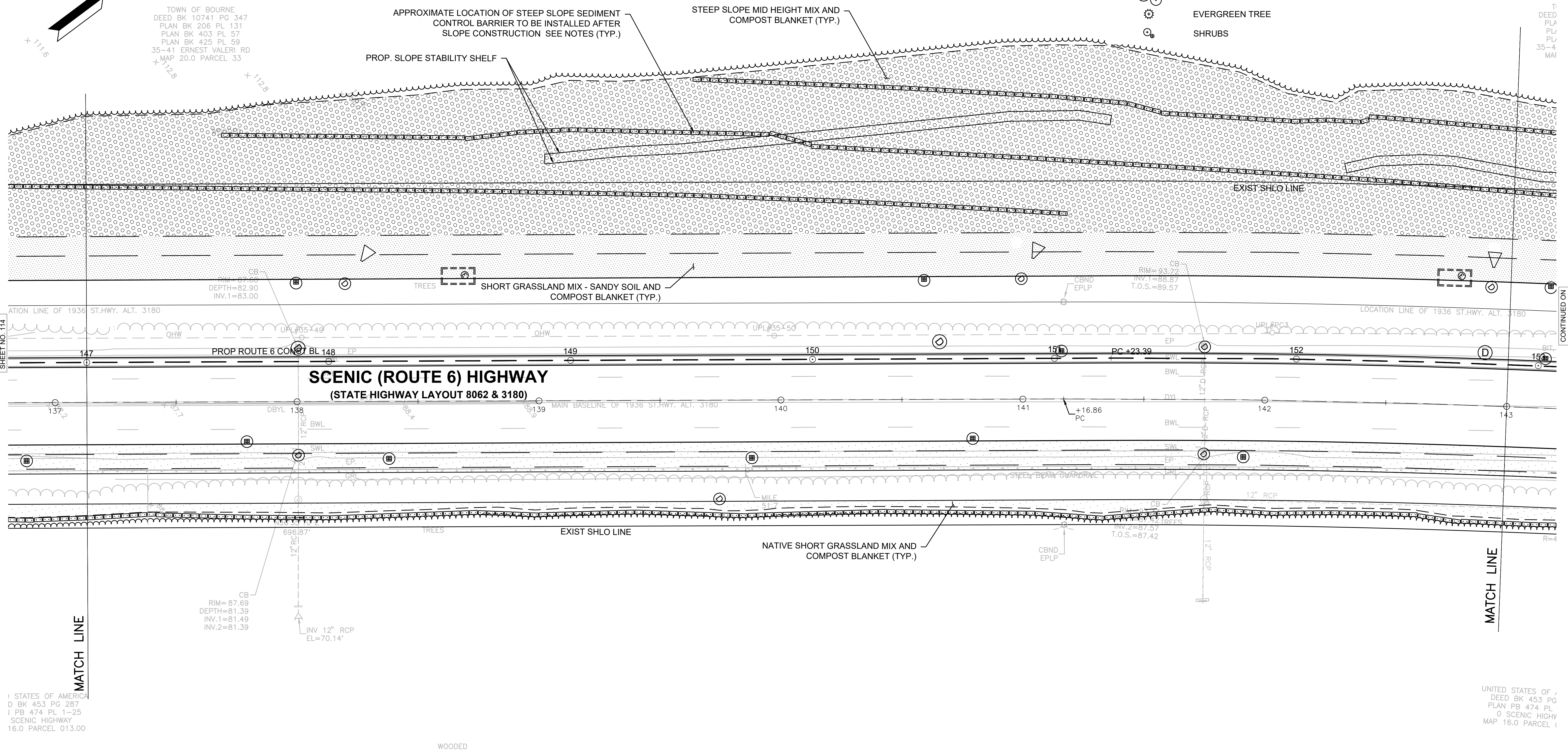
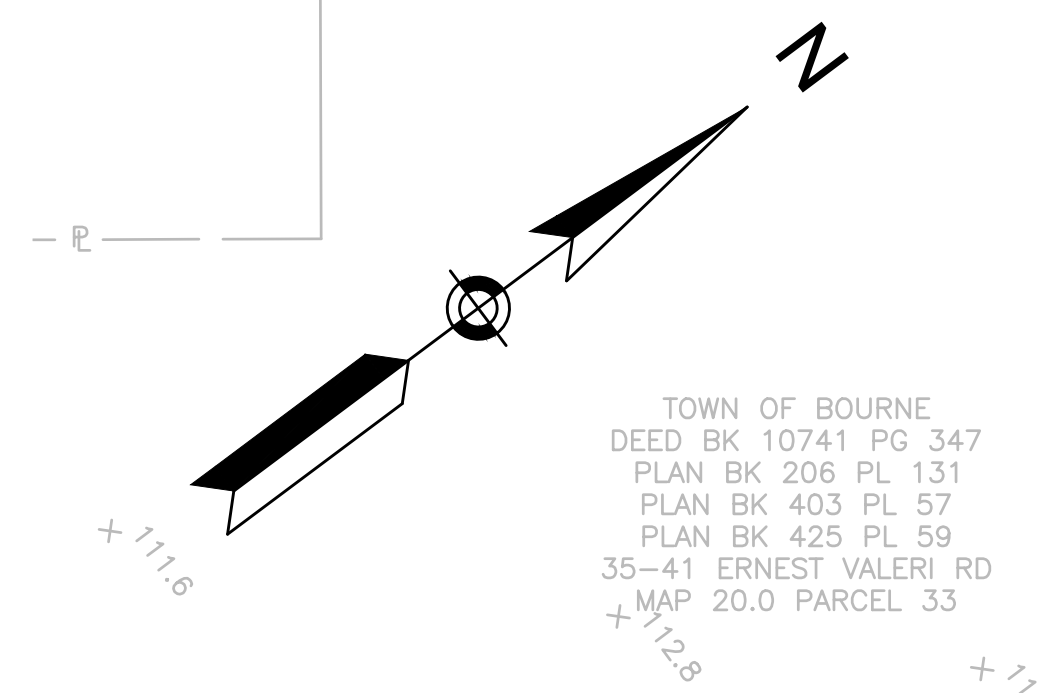
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	115	272
PROJECT FILE NO.		606082	

**LANDSCAPE PLANS  
SHEET 9 OF 15**

- LEGEND:**
- LOAM FOR LAWNS SEED MIX
  - SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
  - NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
  - STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
  - WETLAND RIPARIAN MIX
  - SEDIMENT CONTROL BARRIER
  - PROPOSED TREE LINE
  - DECIDUOUS TREES
  - EVERGREEN TREE
  - SHRUBS

- STEEP SLOPE SEDIMENT CONTROL BARRIER NOTES**
1. COMPOST FILTER TUBES ( OR SIMILAR BARRIER APPROVED BY THE ENGINEER ) SHOWN ON LANDSCAPE PLAN SHALL BE LEFT TO DEGRADE OVER TIME AND THEREFORE MUST BE COMPRISED OF 100% BIODEGRADABLE MATERIALS - BURLAP, COTTON, HEMP, ETC. USE SHALL BE IF AND WHERE NEEDED AND AS APPROVED BY THE ENGINEER. PLACEMENT SHALL BE WHERE MOST EFFECTIVE TO REDUCE POTENTIAL EROSION OF SLOPES UNTIL VEGETATION ESTABLISHES.
  2. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.



STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

UNITED STATES OF  
DEED BK 453 PG  
PLAN PB 474 PL  
SCENIC HIGHWAY  
MAP 16.0 PARCEL 1

CONTINUED ON  
SHEET NO. 114

CONTINUED ON  
SHEET NO. 116



**STEEP SLOPE SEDIMENT CONTROL BARRIER NOTES**

1. COMPOST FILTER TUBES ( OR SIMILAR BARRIER APPROVED BY THE ENGINEER ) SHOWN ON LANDSCAPE PLAN SHALL BE LEFT TO DEGRADE OVER TIME AND THEREFORE MUST BE COMPRISED OF 100% BIODEGRADABLE MATERIALS - BURLAP, COTTON, HEMP, ETC.
2. USE SHALL BE IF AND WHERE NEEDED AND AS APPROVED BY THE ENGINEER. PLACEMENT SHALL BE WHERE MOST EFFECTIVE TO REDUCE POTENTIAL EROSION OF SLOPES UNTIL VEGETATION ESTABLISHES.
3. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.

- LEGEND:**
- LOAM FOR LAWNS SEED MIX
  - SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
  - NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
  - STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
  - WETLAND RIPARIAN MIX
  - SEDIMENT CONTROL BARRIER
  - PROPOSED TREE LINE
  - DECIDUOUS TREES
  - EVERGREEN TREE
  - SHRUBS

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33

APPROXIMATE LOCATION OF STEEP SLOPE SEDIMENT CONTROL BARRIER TO BE INSTALLED AFTER SLOPE CONSTRUCTION SEE NOTES (TYP.)  
PROP. SLOPE STABILITY SHELF

STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET (TYP.)

SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET (TYP.)

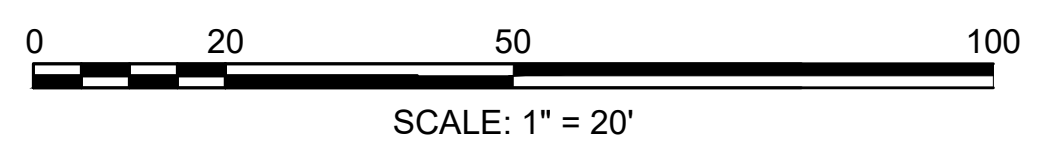
**SCENIC (ROUTE 6) HIGHWAY  
(STATE HIGHWAY LAYOUT 8062 & 3180)**

NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET (TYP.)

CLEAR ZONE  
10 FT OFFSET FROM CLEAR ZONE

- S10-G1-F: 1-QA, 1-SA, 1-PM, 2-AM, 3-AU, 3-VA
- S10-G2-C: 1-AR, 2-BP, 1-NS, 1-QA, 2-QC, 2-PR, 5-MP, 10-VA
- S10-G3-E: 1-BP, 3-CL, 6-KA, 3-MP, 4-PD
- S10-G4-E: 1-BP, 3-CL, 6-KA, 3-MP, 4-PD
- S10-G5-E: 1-BP, 3-CL, 6-KA, 3-MP, 4-PD
- S10-G6-F: 1-QA, 1-SA, 1-PM, 2-AM, 3-AU, 3-VA
- S10-G7-F: 1-QA, 1-SA, 1-PM, 2-AM, 3-AU, 3-VA
- S10-G8-C: 1-AR, 2-BP, 1-NS, 1-QA, 2-QC, 2-PR, 5-MP, 10-VA
- S10-G9-F: 1-QA, 1-SA, 1-PM, 2-AM, 3-AU, 3-VA
- S10-G10-E: 1-BP, 3-CL, 6-KA, 3-MP, 4-PD
- S10-G11-E: 1-BP, 3-CL, 6-KA, 3-MP, 4-PD
- S10-G12-C: 1-AR, 2-BP, 1-NS, 1-QA, 2-QC, 2-PR, 5-MP, 10-VA
- S10-G13-C: 1-AR, 2-BP, 1-NS, 1-QA, 2-QC, 2-PR, 5-MP, 10-VA
- S10-G14-B: 1-AR, 1-BP, 1-NS, 1-QA, 2-QC, 1-SA, 1-PR, 1-PS, 5-AU, 6-AM, 6-CP, 5-PM, 6-VA

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>DECIDUOUS TREES</b>					
AR	5	ACER RUBRUM	RED MAPLE	4-5 FT	#5 CONT
BP	14	BETULA POPULIFOLIA	GRAY BIRCH	4-5 FT	#5 CONT
NS	5	NYSSA SYLVATICA	TUPELO	4-5 FT	#5 CONT
QA	9	QUERCUS ALBA	WHITE OAK	4-5 FT	#5 CONT
QC	10	QUERCUS COCCINEA	SCARLET OAK	4-5 FT	#5 CONT
SA	5	SASSAFRAS ALBIDUM	SASSAFRAS	4-5 FT	#5 CONT
<b>EVERGREEN TREES</b>					
PR	9	PINUS RIDGDA	PITCH PINE	4-5 FT HT	B&B
PS	1	PINUS STROBUS	EASTERN WHITE PINE	4-5 FT HT	B&B
<b>DECIDUOUS SHRUBS</b>					
AU	17	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	12 IN SP	#1 CONT
AM	14	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18-24 INCH	#1 CONT
CL	15	CLETHRA ALNIFOLIA	SUMMER SWEET	18-24 INCH	#2 CONT
CP	6	COMPTONIA PEREGRINA	SWEET FERN	12 IN SP	#1 CONT
KA	30	KALMIA ANGUSTIFOLIA	SHEEP LAUREL	12 IN SP	#1 CONT
MP	35	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3 FT HT	#3 CONT
PD	20	PRUNUS DEPRESSA	SAND CHERRY	12 IN SP	#1 CONT
PM	29	PRUNUS MARITIMA	BEACH PLUM	2-3 FT HT	#3 CONT
VA	58	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	12 IN SP	#1 CONT



CONTINUED ON SHEET NO. 115

CONTINUED ON SHEET NO. 117



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	117	272
PROJECT FILE NO.		606082	

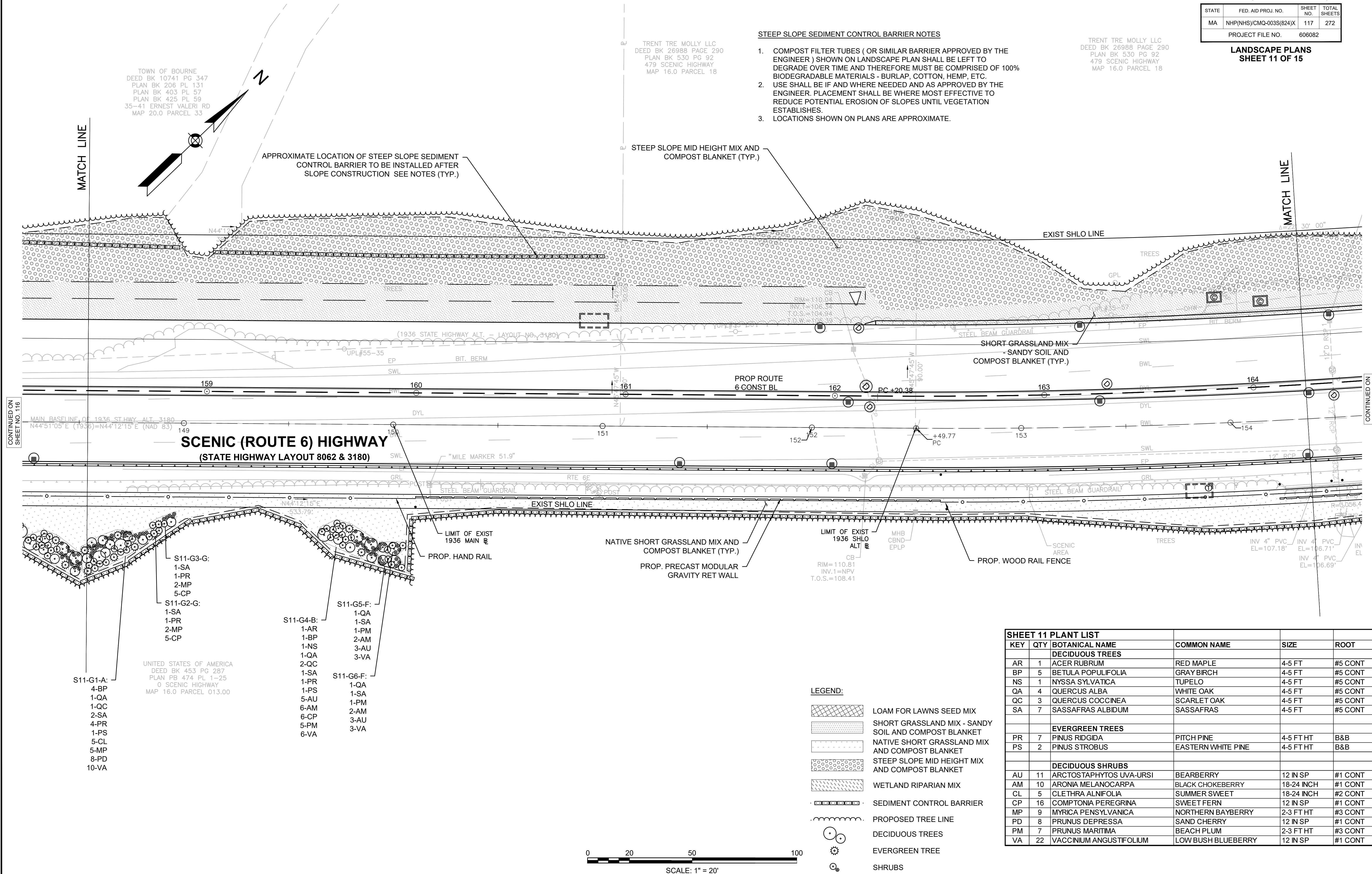
**LANDSCAPE PLANS  
SHEET 11 OF 15**

**STEEP SLOPE SEDIMENT CONTROL BARRIER NOTES**

1. COMPOST FILTER TUBES ( OR SIMILAR BARRIER APPROVED BY THE ENGINEER ) SHOWN ON LANDSCAPE PLAN SHALL BE LEFT TO DEGRADE OVER TIME AND THEREFORE MUST BE COMPRISED OF 100% BIODEGRADABLE MATERIALS - BURLAP, COTTON, HEMP, ETC.
2. USE SHALL BE IF AND WHERE NEEDED AND AS APPROVED BY THE ENGINEER. PLACEMENT SHALL BE WHERE MOST EFFECTIVE TO REDUCE POTENTIAL EROSION OF SLOPES UNTIL VEGETATION ESTABLISHES.
3. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.

TRENT TRE MOLLY LLC  
DEED BK 26988 PAGE 290  
PLAN BK 530 PG 92  
479 SCENIC HIGHWAY  
MAP 16.0 PARCEL 18

TOWN OF BOURNE  
DEED BK 10741 PG 347  
PLAN BK 206 PL 131  
PLAN BK 403 PL 57  
PLAN BK 425 PL 59  
35-41 ERNEST VALERI RD  
MAP 20.0 PARCEL 33



MATCH LINE

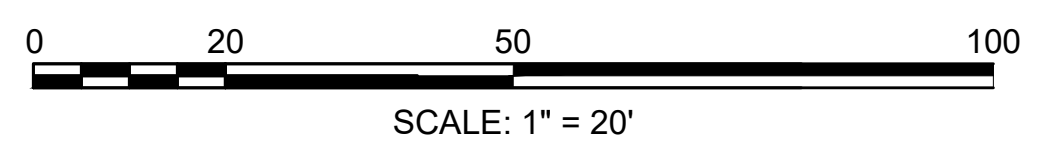
MATCH LINE

CONTINUED ON  
SHEET NO. 116

CONTINUED ON  
SHEET NO. 118

- S11-G1-A:
  - 4-BP
  - 1-QA
  - 1-QC
  - 2-SA
  - 4-PR
  - 1-PS
  - 5-CL
  - 5-MP
  - 8-PD
  - 10-VA
- S11-G2-G:
  - 1-SA
  - 1-PR
  - 2-MP
  - 5-CP
- S11-G3-G:
  - 1-SA
  - 1-PR
  - 2-MP
  - 5-CP
- S11-G4-B:
  - 1-AR
  - 1-BP
  - 1-NS
  - 1-QA
  - 2-QC
  - 1-SA
  - 1-PR
  - 1-PS
  - 5-AU
  - 6-AM
  - 6-CP
  - 5-PM
  - 6-VA
- S11-G4-F:
  - 1-QA
  - 1-SA
  - 1-PM
  - 2-AM
  - 3-AU
  - 3-VA
- S11-G5-F:
  - 1-QA
  - 1-SA
  - 1-PM
  - 2-AM
  - 3-AU
  - 3-VA
- S11-G6-F:
  - 1-QA
  - 1-SA
  - 1-PM
  - 2-AM
  - 3-AU
  - 3-VA

UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
0 SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00



**LEGEND:**

- LOAM FOR LAWN SEED MIX
- SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
- NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
- STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
- WETLAND RIPARIAN MIX
- SEDIMENT CONTROL BARRIER
- PROPOSED TREE LINE
- DECIDUOUS TREES
- EVERGREEN TREE
- SHRUBS

**SHEET 11 PLANT LIST**

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>DECIDUOUS TREES</b>					
AR	1	ACER RUBRUM	RED MAPLE	4-5 FT	#5 CONT
BP	5	BETULA POPULIFOLIA	GRAY BIRCH	4-5 FT	#5 CONT
NS	1	NYSSA SYLVATICA	TUPELO	4-5 FT	#5 CONT
QA	4	QUERCUS ALBA	WHITE OAK	4-5 FT	#5 CONT
QC	3	QUERCUS COCCINEA	SCARLET OAK	4-5 FT	#5 CONT
SA	7	SASSAFRAS ALBIDUM	SASSAFRAS	4-5 FT	#5 CONT
<b>EVERGREEN TREES</b>					
PR	7	PINUS RIDGIDA	PITCH PINE	4-5 FT HT	B&B
PS	2	PINUS STROBUS	EASTERN WHITE PINE	4-5 FT HT	B&B
<b>DECIDUOUS SHRUBS</b>					
AU	11	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	12 IN SP	#1 CONT
AM	10	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18-24 INCH	#1 CONT
CL	5	CLETHRA ALNIFOLIA	SUMMER SWEET	18-24 INCH	#2 CONT
CP	16	COMP TONIA PEREGRINA	SWEET FERN	12 IN SP	#1 CONT
MP	9	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3 FT HT	#3 CONT
PD	8	PRUNUS DEPRESSA	SAND CHERRY	12 IN SP	#1 CONT
PM	7	PRUNUS MARITIMA	BEACH PLUM	2-3 FT HT	#3 CONT
VA	22	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	12 IN SP	#1 CONT



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

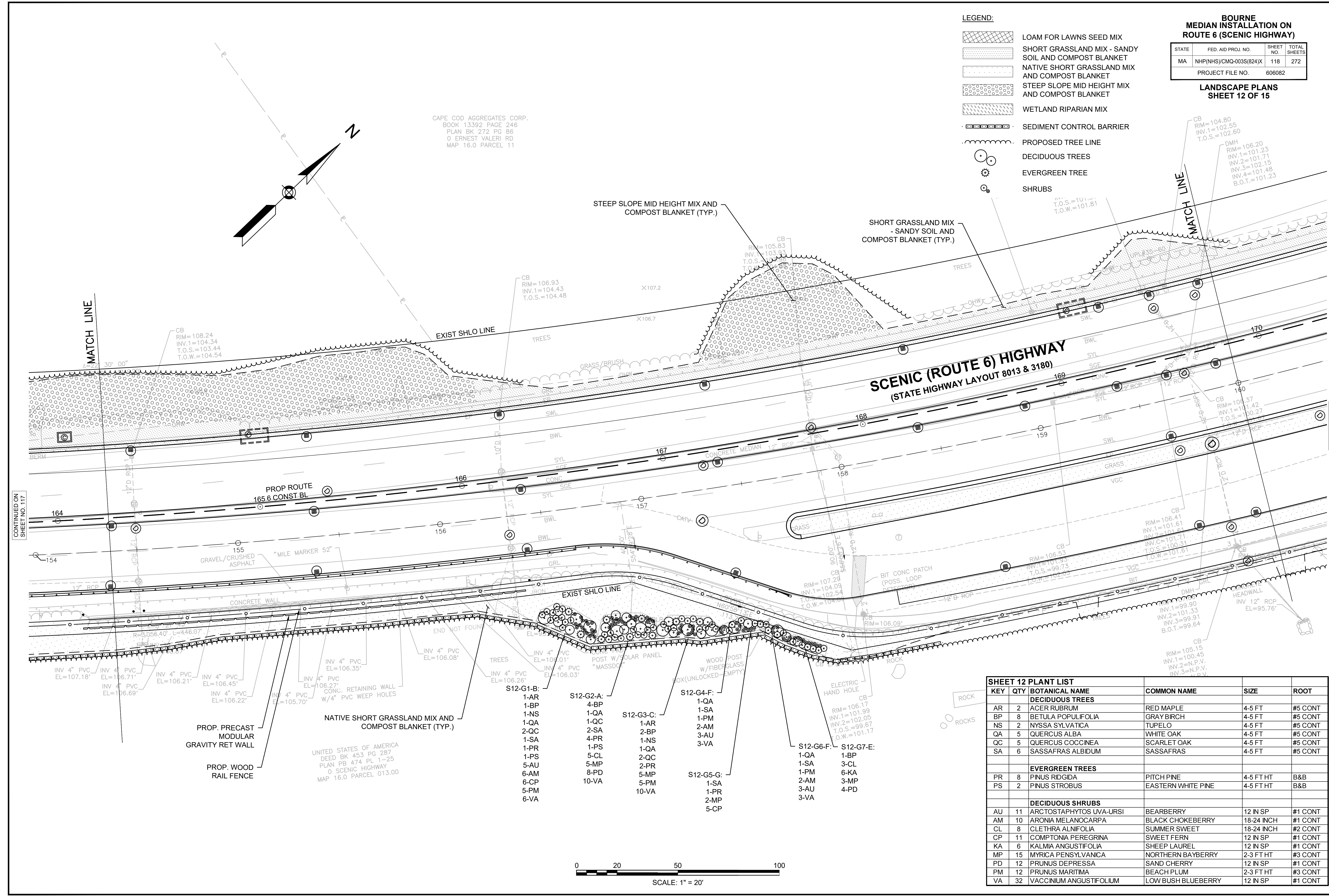
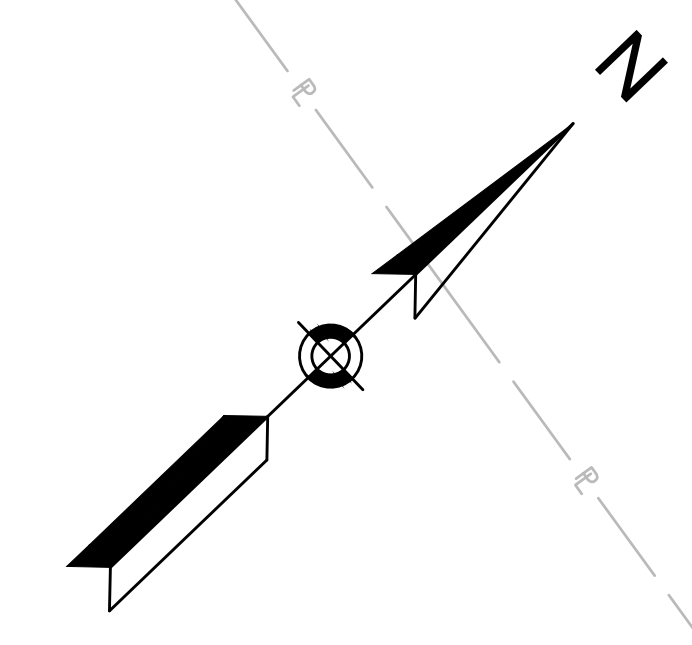
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)CMQ-003S(824)X	118	272
PROJECT FILE NO. 606082			

**LANDSCAPE PLANS  
SHEET 12 OF 15**

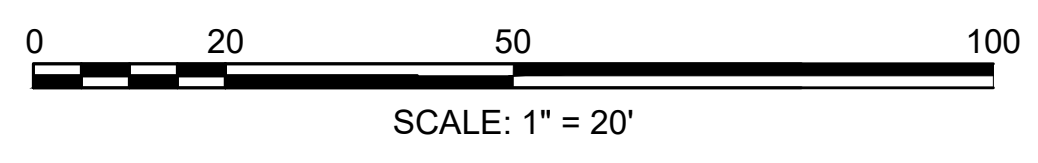
**LEGEND:**

- LOAM FOR LAWNS SEED MIX
- SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
- NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
- STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
- WETLAND RIPARIAN MIX
- SEDIMENT CONTROL BARRIER
- PROPOSED TREE LINE
- DECIDUOUS TREES
- EVERGREEN TREE
- SHRUBS

CAPE COD AGGREGATES CORP.  
BOOK 13392 PAGE 246  
PLAN BK 272 PG 86  
0 ERNEST VALERI RD  
MAP 16.0 PARCEL 11



SHEET 12 PLANT LIST					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>DECIDUOUS TREES</b>					
AR	2	ACER RUBRUM	RED MAPLE	4-5 FT	#5 CONT
BP	8	BETULA POPULIFOLIA	GRAY BIRCH	4-5 FT	#5 CONT
NS	2	NYSSA SYLVATICA	TUPELO	4-5 FT	#5 CONT
QA	5	QUERCUS ALBA	WHITE OAK	4-5 FT	#5 CONT
QC	5	QUERCUS COCCINEA	SCARLET OAK	4-5 FT	#5 CONT
SA	6	SASSAFRAS ALBIDUM	SASSAFRAS	4-5 FT	#5 CONT
<b>EVERGREEN TREES</b>					
PR	8	PINUS RIDGIDA	PITCH PINE	4-5 FT HT	B&B
PS	2	PINUS STROBUS	EASTERN WHITE PINE	4-5 FT HT	B&B
<b>DECIDUOUS SHRUBS</b>					
AU	11	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	12 IN SP	#1 CONT
AM	10	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18-24 INCH	#1 CONT
CL	8	CLETHRA ALNIFOLIA	SUMMER SWEET	18-24 INCH	#2 CONT
CP	11	COMPTONIA PEREGRINA	SWEET FERN	12 IN SP	#1 CONT
KA	6	KALMIA ANGUSTIFOLIA	SHEEP LAUREL	12 IN SP	#1 CONT
MP	15	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3 FT HT	#3 CONT
PD	12	PRUNUS DEPRESSA	SAND CHERRY	12 IN SP	#1 CONT
PM	12	PRUNUS MARITIMA	BEACH PLUM	2-3 FT HT	#3 CONT
VA	32	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	12 IN SP	#1 CONT

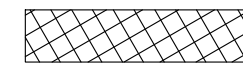
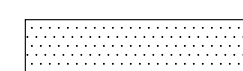
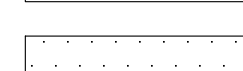
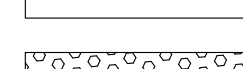
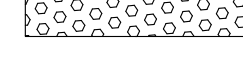
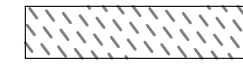






CONTINUED ON  
SHEET NO. 117

CONTINUED ON  
SHEET NO. 119



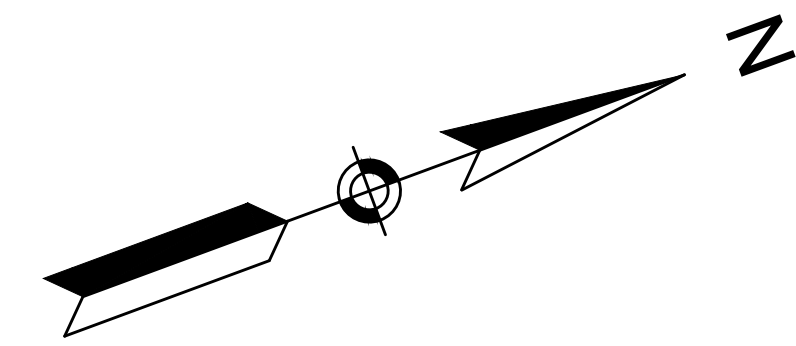
**LEGEND:**

-  LOAM FOR LAWNS SEED MIX
-  SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
-  NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
-  STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
-  WETLAND RIPARIAN MIX
-  SEDIMENT CONTROL BARRIER
-  PROPOSED TREE LINE
-  DECIDUOUS TREES
-  EVERGREEN TREE
-  SHRUBS

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

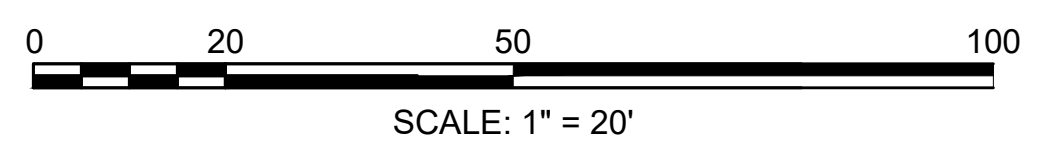
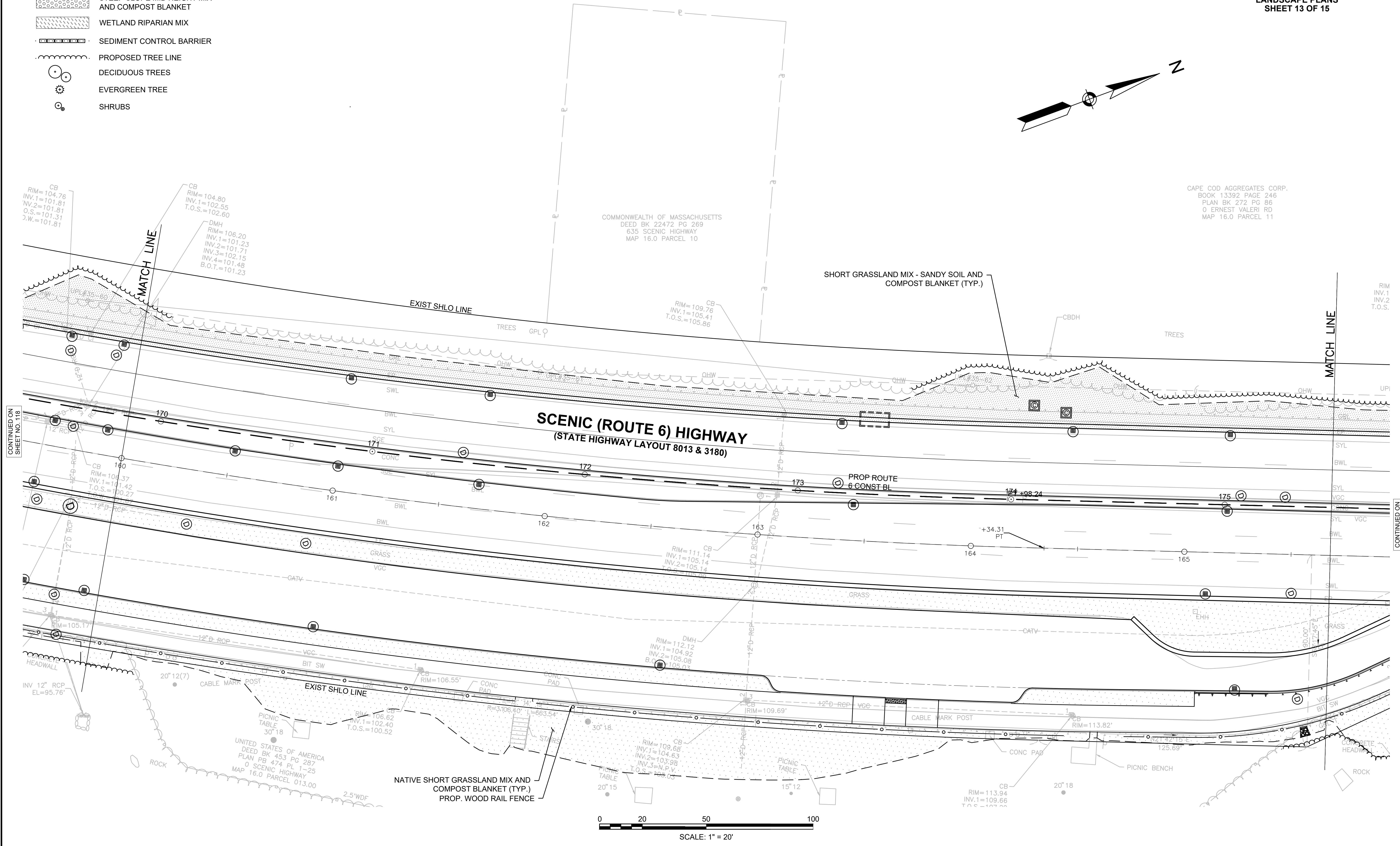
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	119	272
PROJECT FILE NO.		606082	

**LANDSCAPE PLANS  
SHEET 13 OF 15**



CAPE COD AGGREGATES CORP.  
BOOK 13392 PAGE 246  
PLAN BK 272 PG 86  
O. ERNEST VALERI RD  
MAP 16.0 PARCEL 11

COMMONWEALTH OF MASSACHUSETTS  
DEED BK 22472 PG 269  
635 SCENIC HIGHWAY  
MAP 16.0 PARCEL 10



CONTINUED ON  
SHEET NO. 118

CONTINUED ON  
SHEET NO. 120



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	120	272
PROJECT FILE NO.			606082

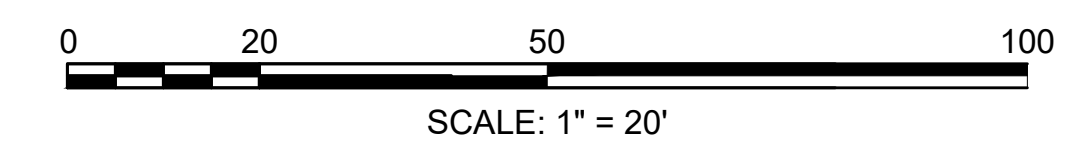
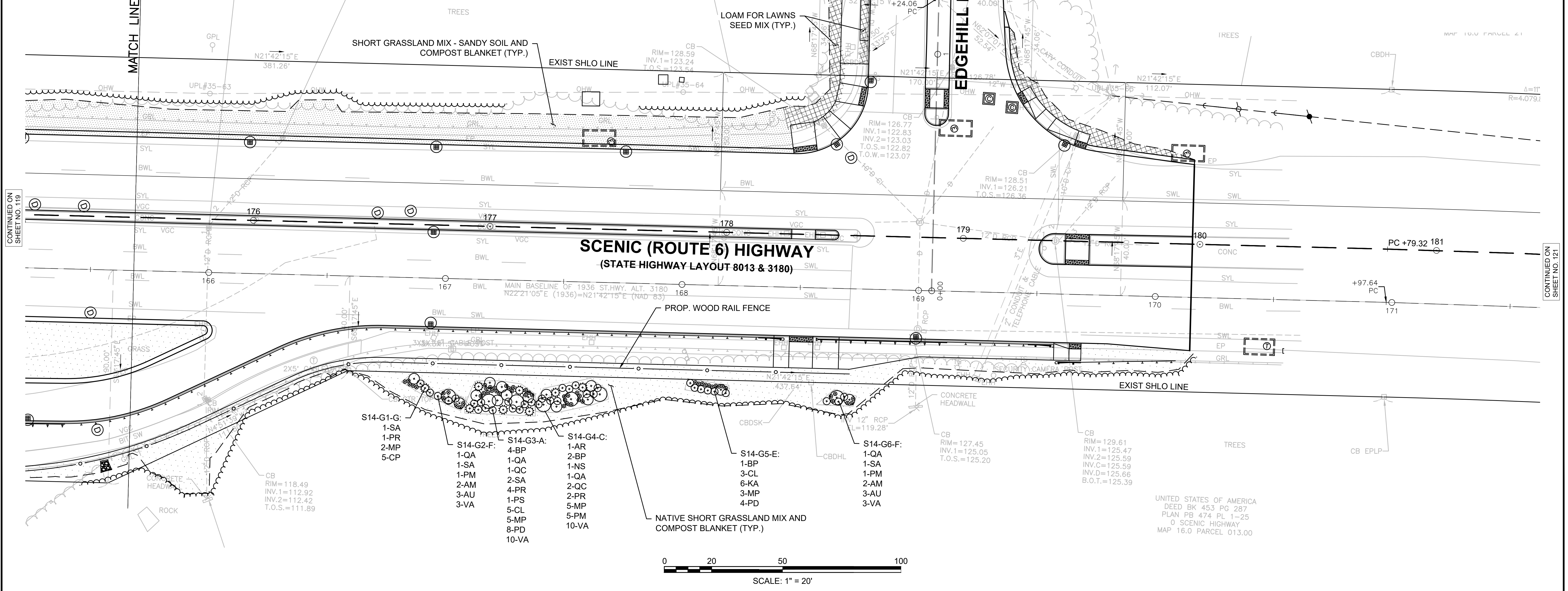
**LANDSCAPE PLANS  
SHEET 14 OF 15**

**LEGEND:**

- LOAM FOR LAWNS SEED MIX
- SHORT GRASSLAND MIX - SANDY SOIL AND COMPOST BLANKET
- NATIVE SHORT GRASSLAND MIX AND COMPOST BLANKET
- STEEP SLOPE MID HEIGHT MIX AND COMPOST BLANKET
- WETLAND RIPARIAN MIX
- SEDIMENT CONTROL BARRIER
- PROPOSED TREE LINE
- DECIDUOUS TREES
- EVERGREEN TREE
- SHRUBS

**SHEET 14 PLANT LIST**

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>DECIDUOUS TREES</b>					
AR	1	ACER RUBRUM	RED MAPLE	4-5 FT	#5 CONT
BP	7	BETULA POPULIFOLIA	GRAY BIRCH	4-5 FT	#5 CONT
NS	1	NYSSA SYLVATICA	TUPELO	4-5 FT	#5 CONT
QA	4	QUERCUS ALBA	WHITE OAK	4-5 FT	#5 CONT
QC	3	QUERCUS COCCINEA	SCARLET OAK	4-5 FT	#5 CONT
SA	5	SASSAFRAS ALBIDUM	SASSAFRAS	4-5 FT	#5 CONT
<b>EVERGREEN TREES</b>					
PR	7	PINUS RIDGIDA	PITCH PINE	4-5 FT HT	B&B
PS	1	PINUS STROBUS	EASTERN WHITE PINE	4-5 FT HT	B&B
<b>DECIDUOUS SHRUBS</b>					
AU	6	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	12 IN SP	#1 CONT
AM	4	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18-24 INCH	#2 CONT
CL	8	CLETHRA ALNIFOLIA	SUMMER SWEET	18-24 INCH	#2 CONT
CP	5	COMPTONIA PEREGRINA	SWEET FERN	12 IN SP	#1 CONT
KA	6	KALMA ANGUSTIFOLIA	SHEEP LAUREL	12 IN SP	#1 CONT
MP	15	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3 FT HT	#3 CONT
PD	12	PRUNUS DEPRESSA	SAND CHERRY	12 IN SP	#1 CONT
PM	7	PRUNUS MARITIMA	BEACH PLUM	2-3 FT HT	#3 CONT
VA	26	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	12 IN SP	#1 CONT



UNITED STATES OF AMERICA  
DEED BK 453 PG 287  
PLAN PB 474 PL 1-25  
O SCENIC HIGHWAY  
MAP 16.0 PARCEL 013.00

CONTINUED ON  
SHEET NO. 119

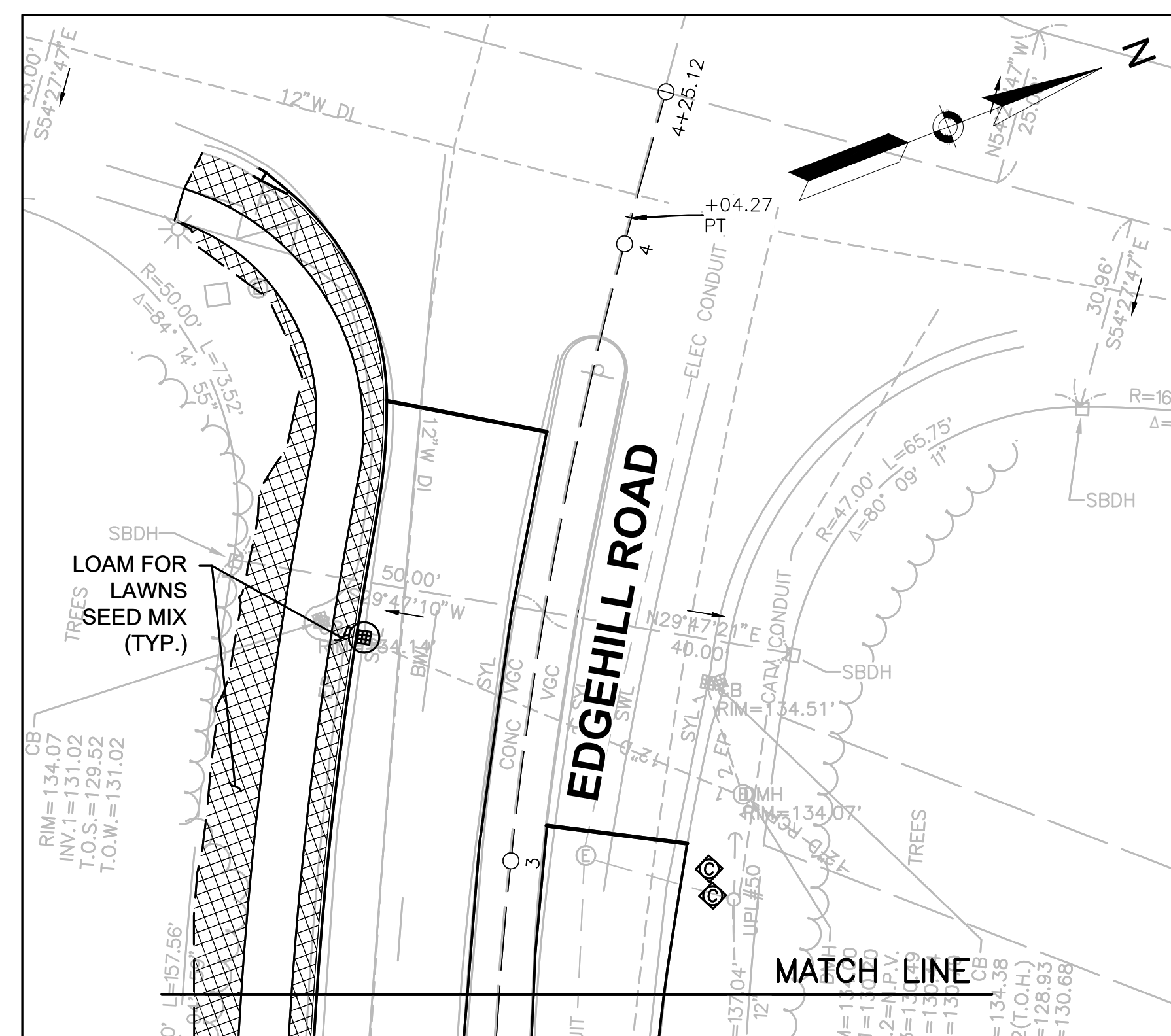
CONTINUED ON  
SHEET NO. 121



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	121	272
PROJECT FILE NO.		606082	

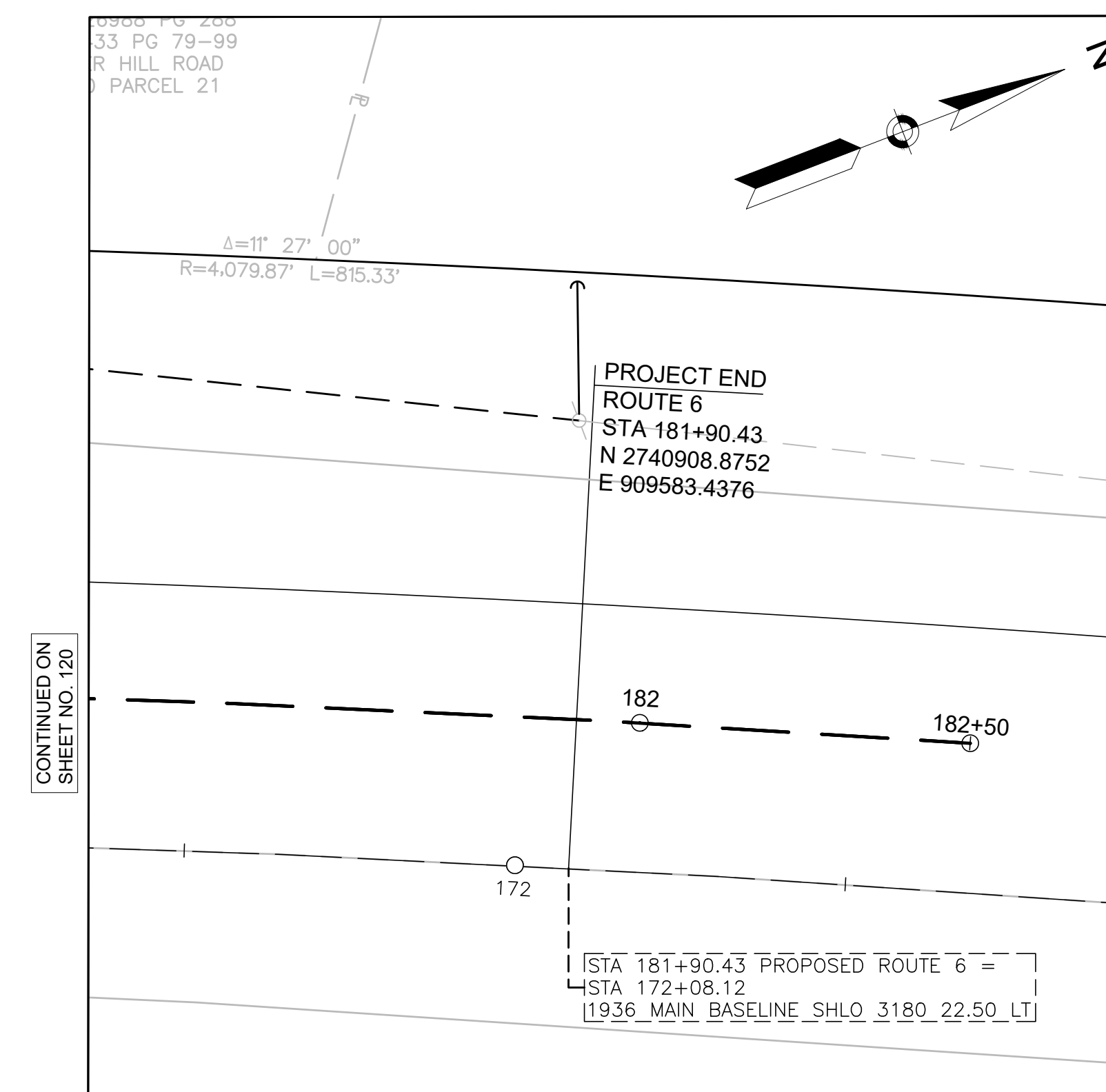
**LANDSCAPE PLANS  
SHEET 15 OF 15**



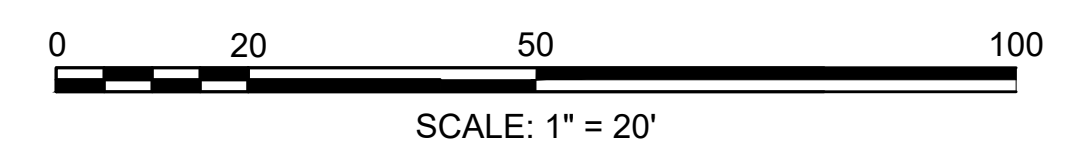
NOTE:  
THERE IS NO KNOWN PLAN TO ADD  
SIDEWALK ON HEATHER HILL ROAD

CONTINUED ON  
SHEET NO. 120

SCALE: 1"=20'



CONTINUED ON  
SHEET NO. 120

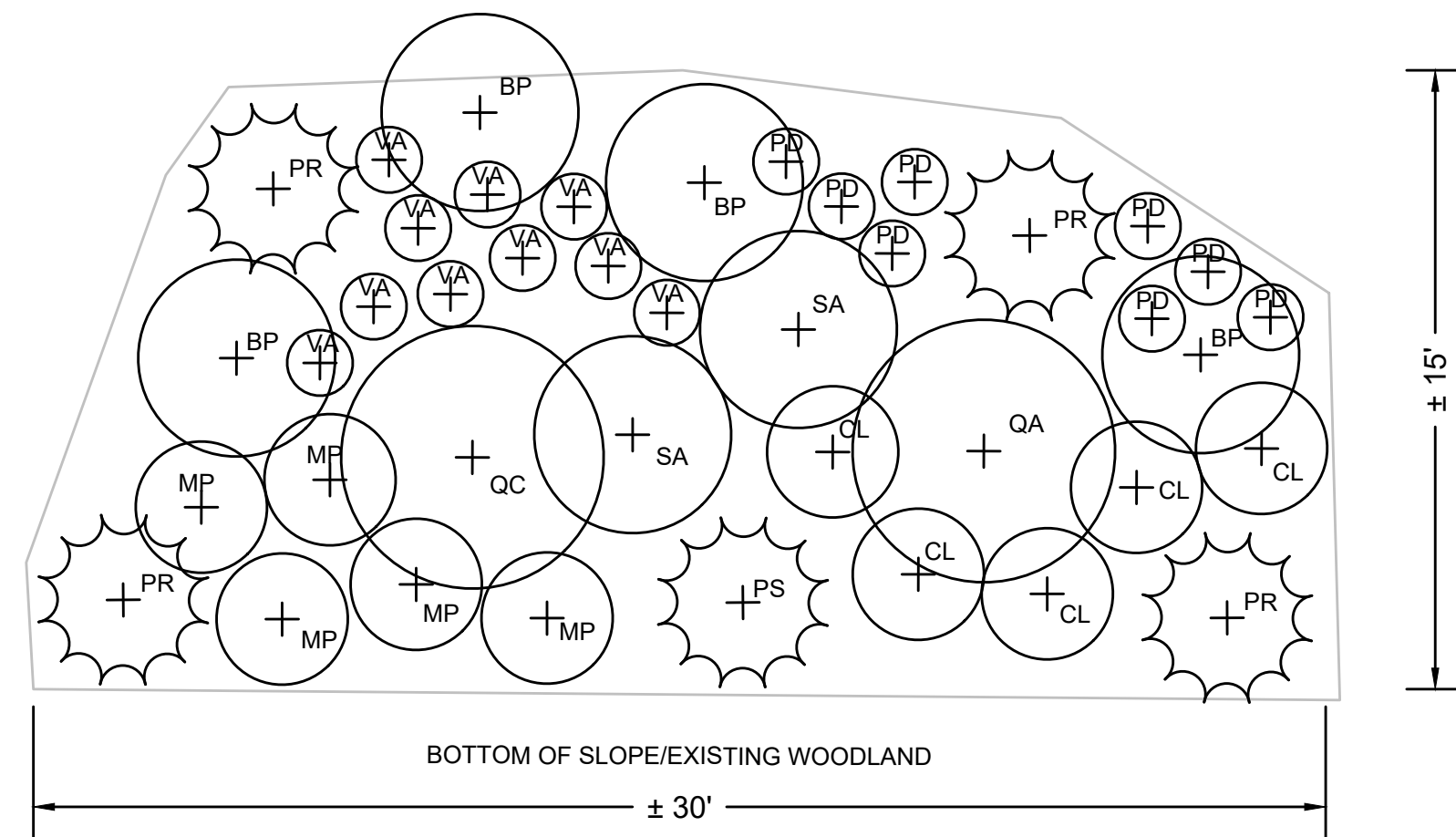




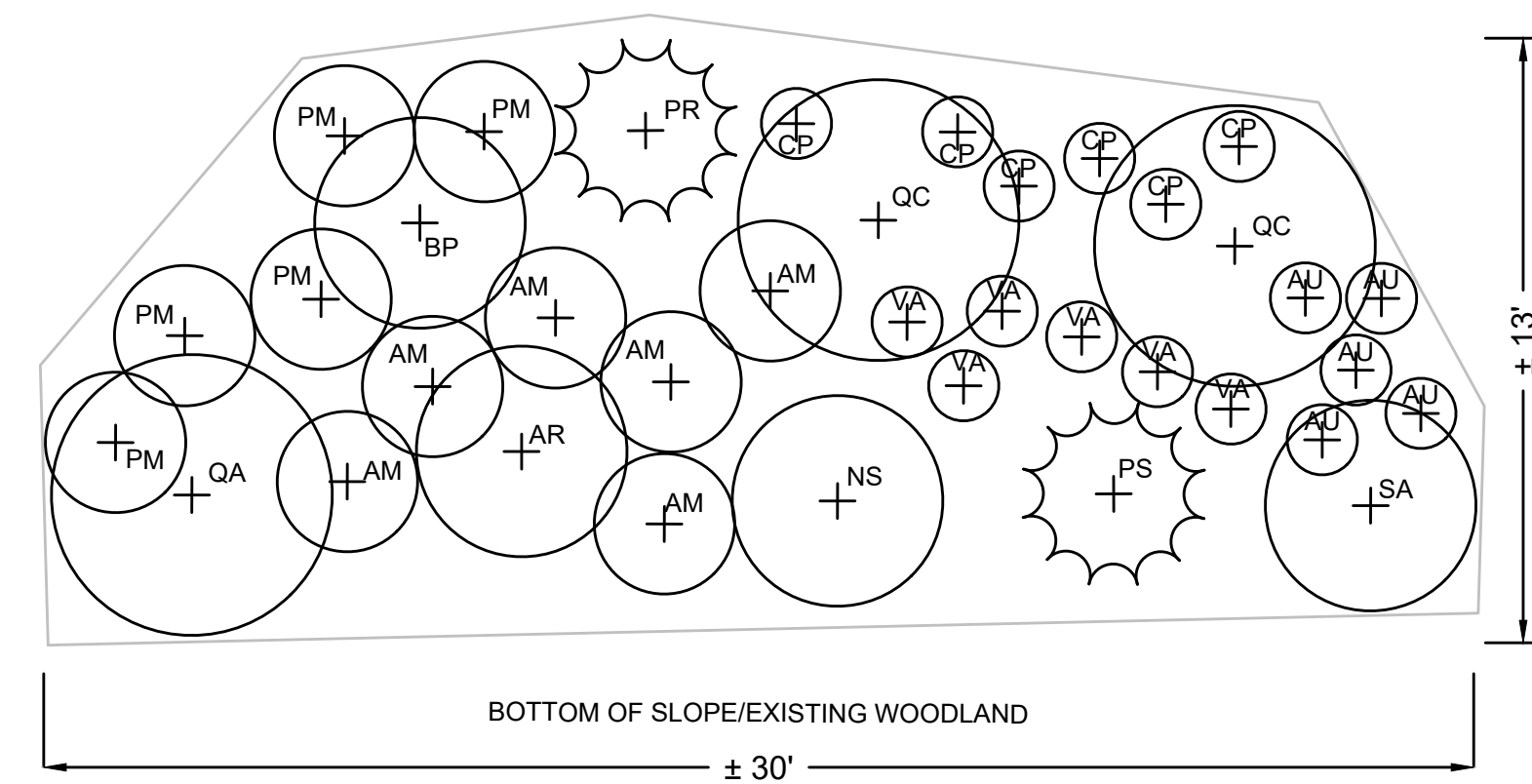
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	122	272
PROJECT FILE NO.		606082	

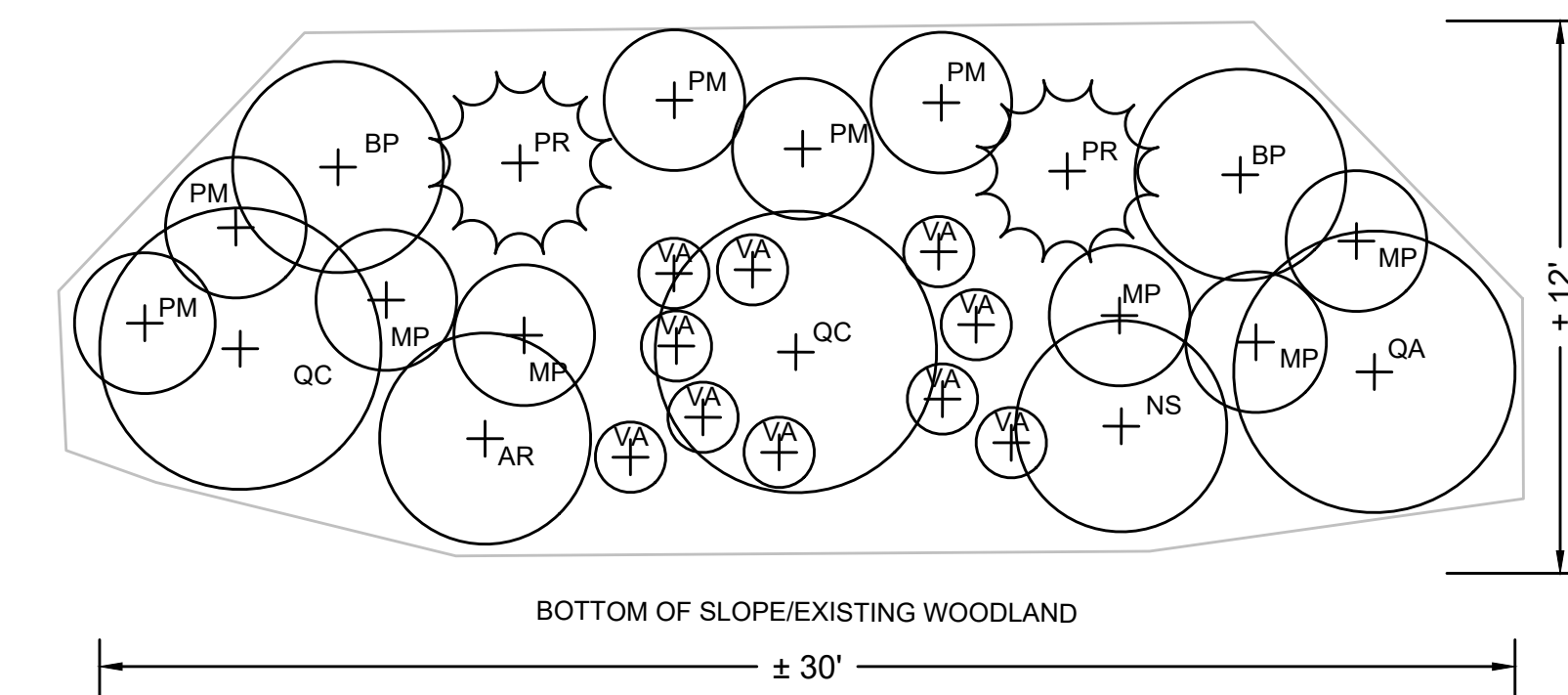
**LANDSCAPE DETAILS  
SHEET 1 OF 2**



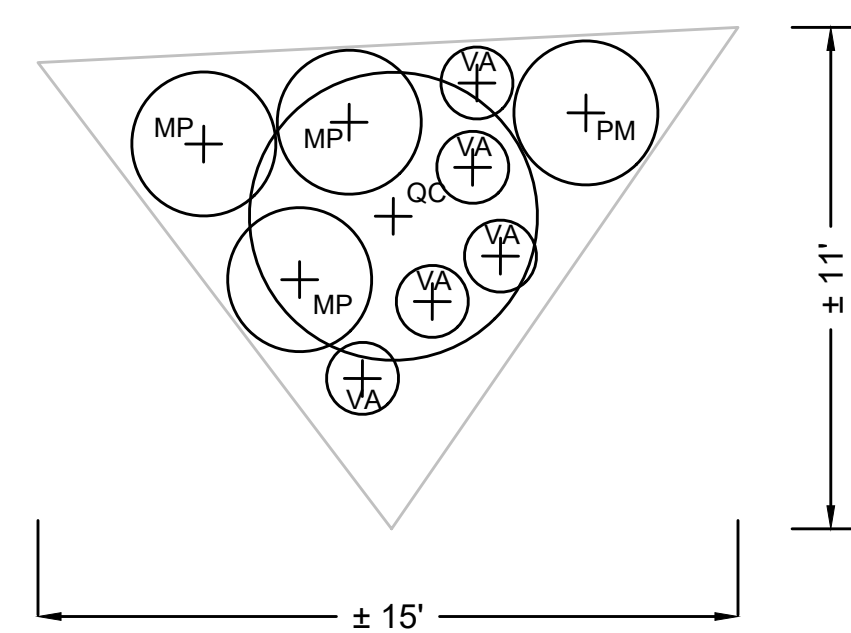
**1** PLANTING LAYOUT DETAIL - GROUP A  
1/4" = 1'-0"



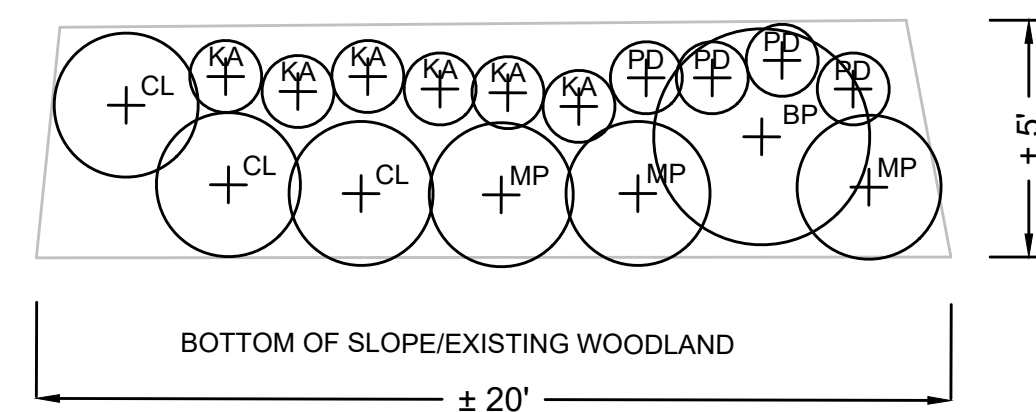
**2** PLANTING LAYOUT DETAIL - GROUP B  
1/4" = 1'-0"



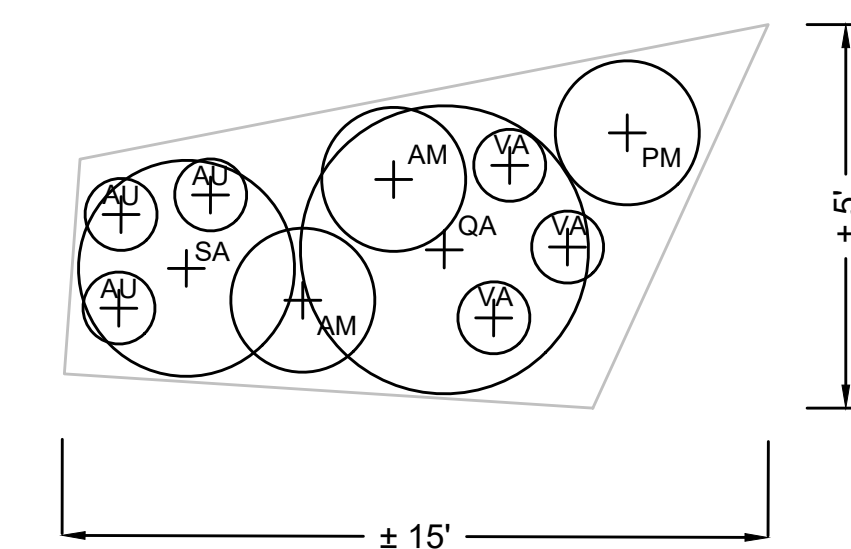
**3** PLANTING LAYOUT DETAIL - GROUP C  
1/4" = 1'-0"



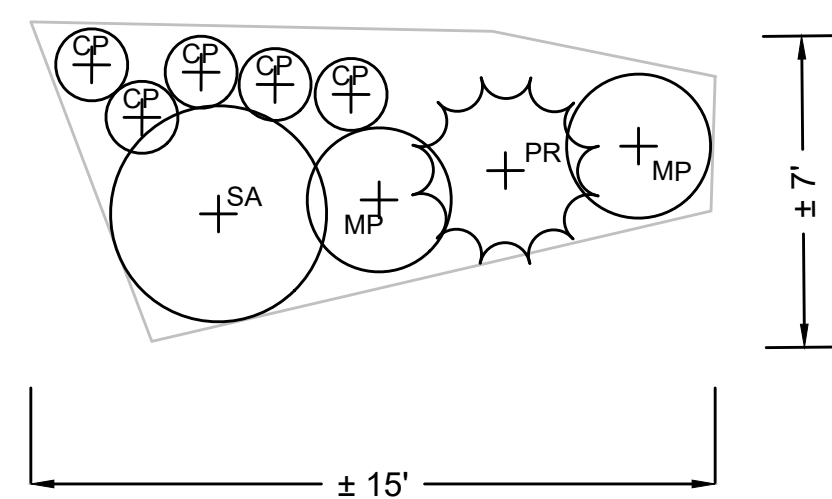
**4** PLANTING LAYOUT DETAIL - GROUP D  
1/4" = 1'-0"



**5** PLANTING LAYOUT DETAIL - GROUP E  
1/4" = 1'-0"



**6** PLANTING LAYOUT DETAIL - GROUP F  
1/4" = 1'-0"



**7** PLANTING LAYOUT DETAIL - GROUP G  
1/4" = 1'-0"

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>PROJECT TOTAL PLANT LIST</b>					
<b>DECIDUOUS TREES</b>					
AR	20	ACER RUBRUM	RED MAPLE	4-5 FT	#5 CONT
BP	68	BETULA POPULIFOLIA	GRAY BIRCH	4-5 FT	#5 CONT
NS	20	NYSSA SYLVATICA	TUPELO	4-5 FT	#5 CONT
QA	40	QUERCUS ALBA	WHITE OAK	4-5 FT	#5 CONT
QC	49	QUERCUS COCCINEA	SCARLET OAK	4-5 FT	#5 CONT
SA	44	SASSAFRAS ALBIDUM	SASSAFRAS	4-5 FT	#5 CONT
<b>EVERGREEN TREES</b>					
PR	66	PINUS RIDGIDA	PITCH PINE	4-5 FT HT	B&B
PS	14	PINUS STROBUS	EASTERN WHITE PINE	4-5 FT HT	B&B
<b>DECIDUOUS SHRUBS</b>					
AU	82	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	12 IN SP	#1 CONT
AM	76	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18-24 INCH	#2 CONT
CL	66	CLETHRA ALNIFOLIA	SUMMER SWEET	18-24 INCH	#2 CONT
CP	98	COMPTONIA PEREGRINA	SWEET FERN	12 IN SP	#1 CONT
KA	72	KALMA ANGUSTIFOLIA	SHEEP LAUREL	12 IN SP	#1 CONT
MP	155	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3 FT HT	#3 CONT
PD	96	PRUNUS DEPRESSA	SAND CHERRY	12 IN SP	#1 CONT
PM	117	PRUNUS MARITIMA	BEACH PLUM	2-3 FT HT	#3 CONT
VA	285	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	12 IN SP	#1 CONT

**8** TOTAL PLANT LIST

**PLANT SPACING AND LAYOUT NOTES**

- GROUPS SHOW THE APPROXIMATE SPACING AND LAYOUT OF PLANTS WITHIN THE GROUP.
- SEE PLANT SHEETS FOR PLANTING GROUP LOCATIONS.
- PLANTING GROUPS A, B, C AND E SHOULD BE ORIENTED AS SHOWN IN THE DETAIL IN RELATION TO THE BOTTOM OF THE SLOPE.
- PLANTING GROUPS D, F AND G MAY BE ROTATED.
- CLEAR ZONE AND A 10 FOOT OFFSET FROM THE CLEAR ZONE ARE SHOWN ON LANDSCAPE PLAN SHEETS. NO PLANTING SHALL OCCUR IN THE CLEAR ZONE. LARGE DECIDUOUS TREES SHALL NOT BE PLANTED WITHIN THE 10 FOOT OFF SET OF THE CLEAR ZONE.

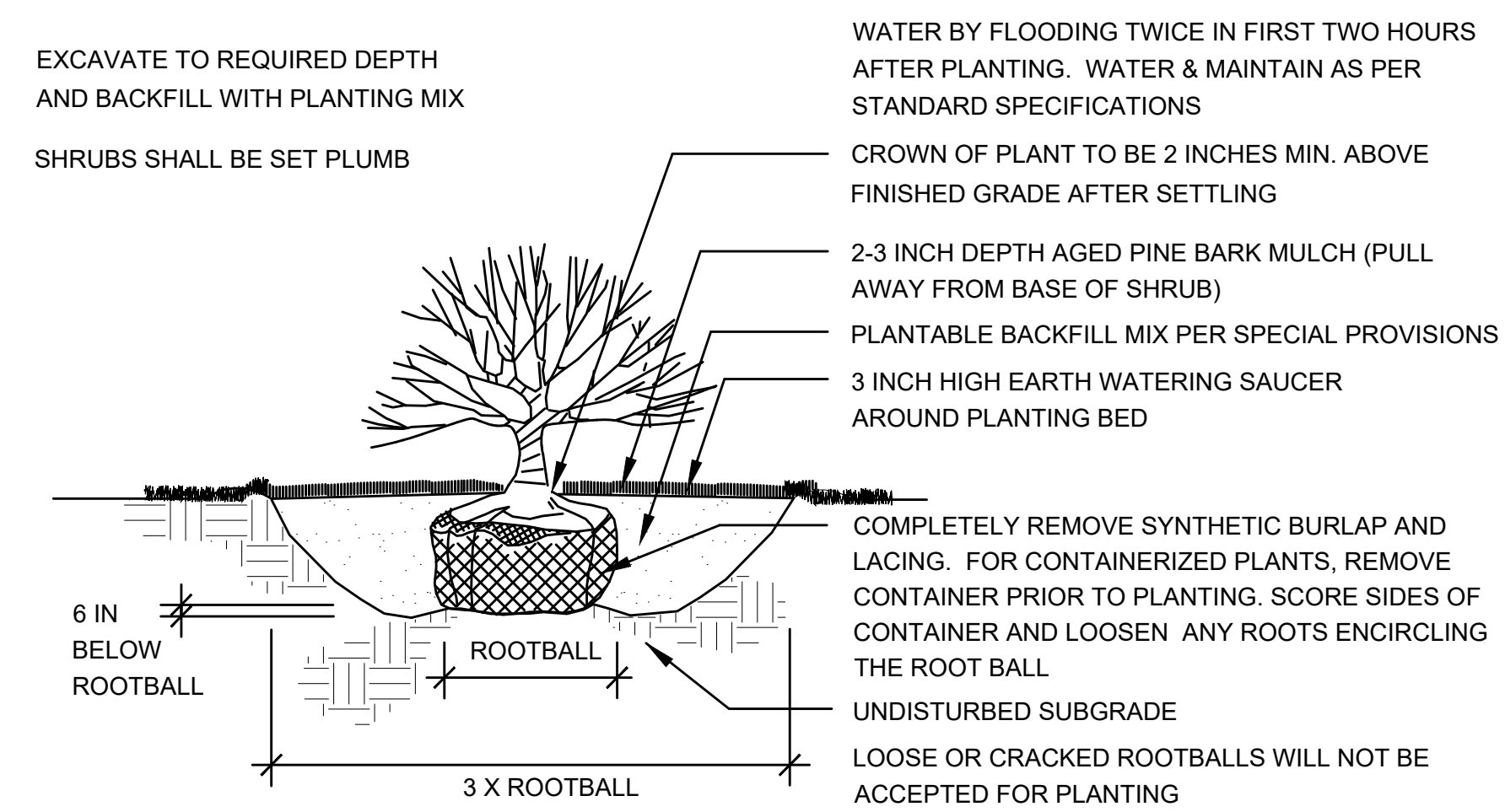
**PLANTING NOTES**

- CONTRACTOR SHALL HAVE ALL SUBSURFACE UTILITIES MARKED PRIOR TO THE START OF WORK.
- PLANT LOCATIONS ARE APPROXIMATE. PRIOR TO PLANTING, LOCATION OF ALL PLANT MATERIAL WILL BE APPROVED BY THE RESIDENT ENGINEER AND MASSDOT LANDSCAPE ARCHITECT AND/OR THE LANDSCAPE DESIGNER OF RECORD.
- ALL PLANT MATERIAL WILL HAVE TAGS INDICATING COMMON NAME, BOTANICAL NAME, CULTIVAR, & SIZE. IMMEDIATELY AFTER ACCEPTANCE OF PLANTING, TAGS AND RIBBONS SHALL BE REMOVED.
- ALL PLANTS WILL BE MULCHED PER PLANS AND SPECIFICATIONS.
- ALL SHRUB AND PERENNIAL BEDS WILL BE WEED WHACKED AS NEEDED OTHERWISE MAINTAINED FOR THE DURATION OF THE CONTRACT.
- PLANTS AND PLANTING BEDS SHALL BE THOROUGHLY WATERED AS NECESSARY AND PER SPECIFICATIONS. NO IRRIGATION BAGS SHALL BE USED.

**UPLAND NATIVE SEEDING NOTES**

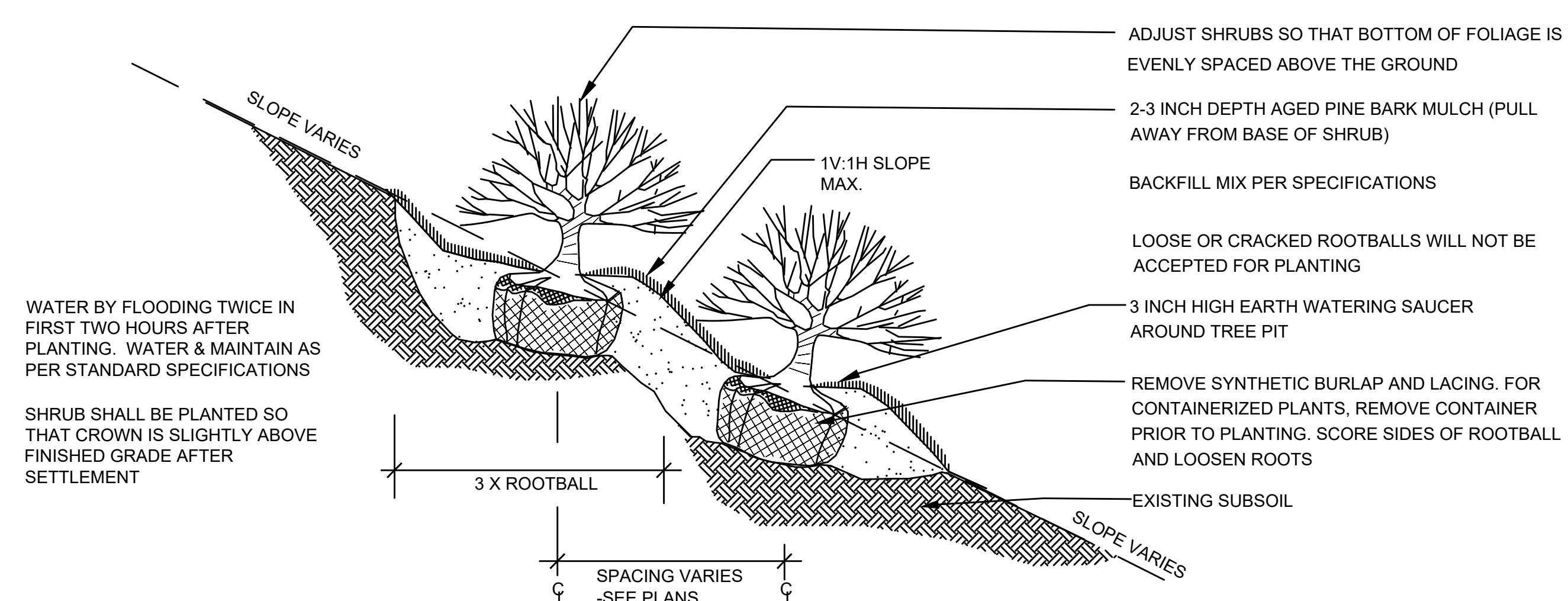
- SEEDING AND SUBMITTALS SHALL BE PER THE SPECIAL PROVISIONS.
- SUBMITTALS FOR SEED MIXES SHALL BE APPROVED BY THE ENGINEER AND LANDSCAPE ARCHITECT PRIOR TO SEED APPLICATION.
- SITE PREPARATION SHALL BE PER SPECIFICATIONS AND APPROVED BY THE ENGINEER PRIOR TO SEEDING.
- WHEN SEEDING OUT OF SEASON APPLICATION RATE SHALL BE INCREASED BY 50%.

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	123	272
PROJECT FILE NO.			606082



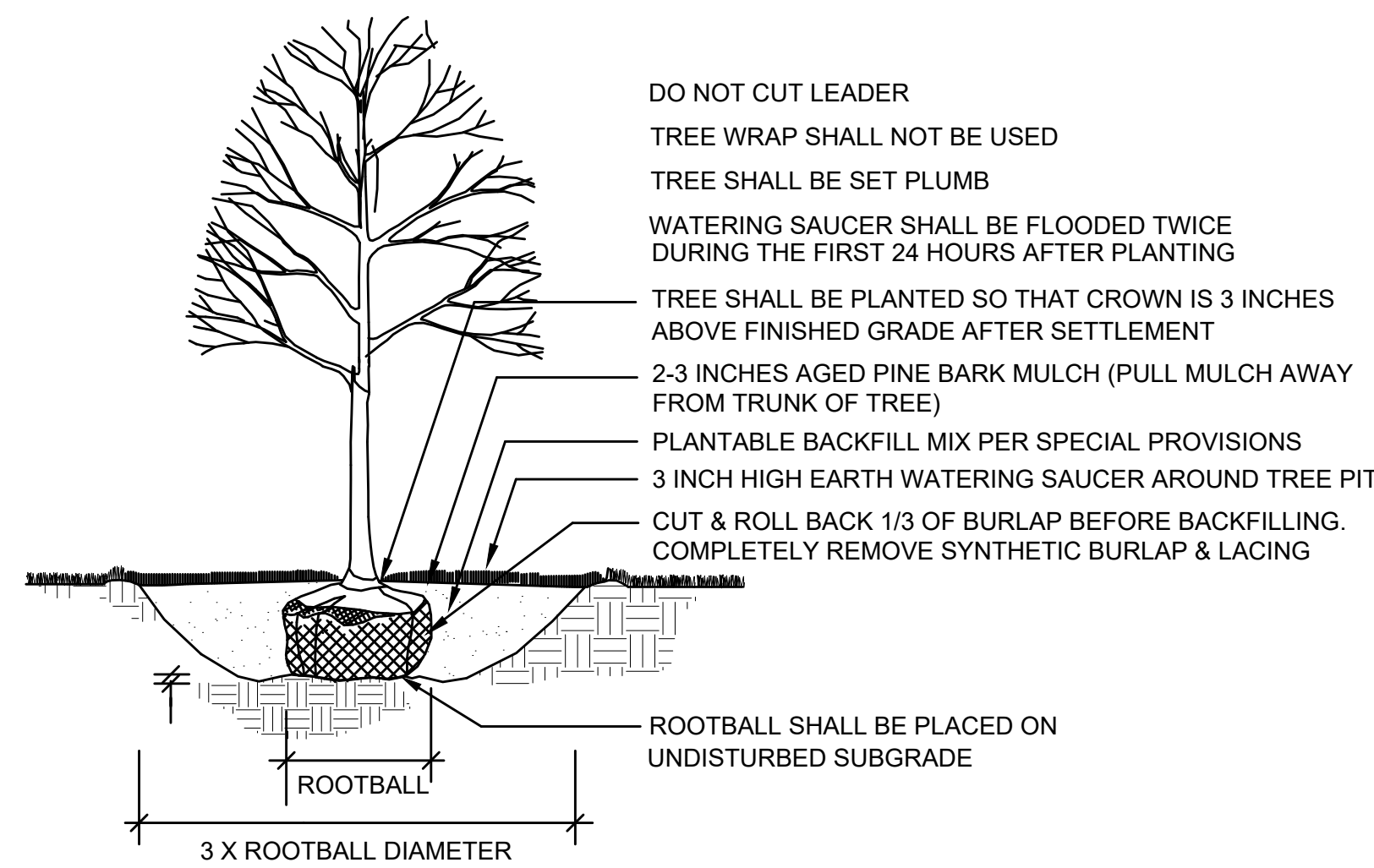
**1 SHRUB PLANTING**

NOT TO SCALE



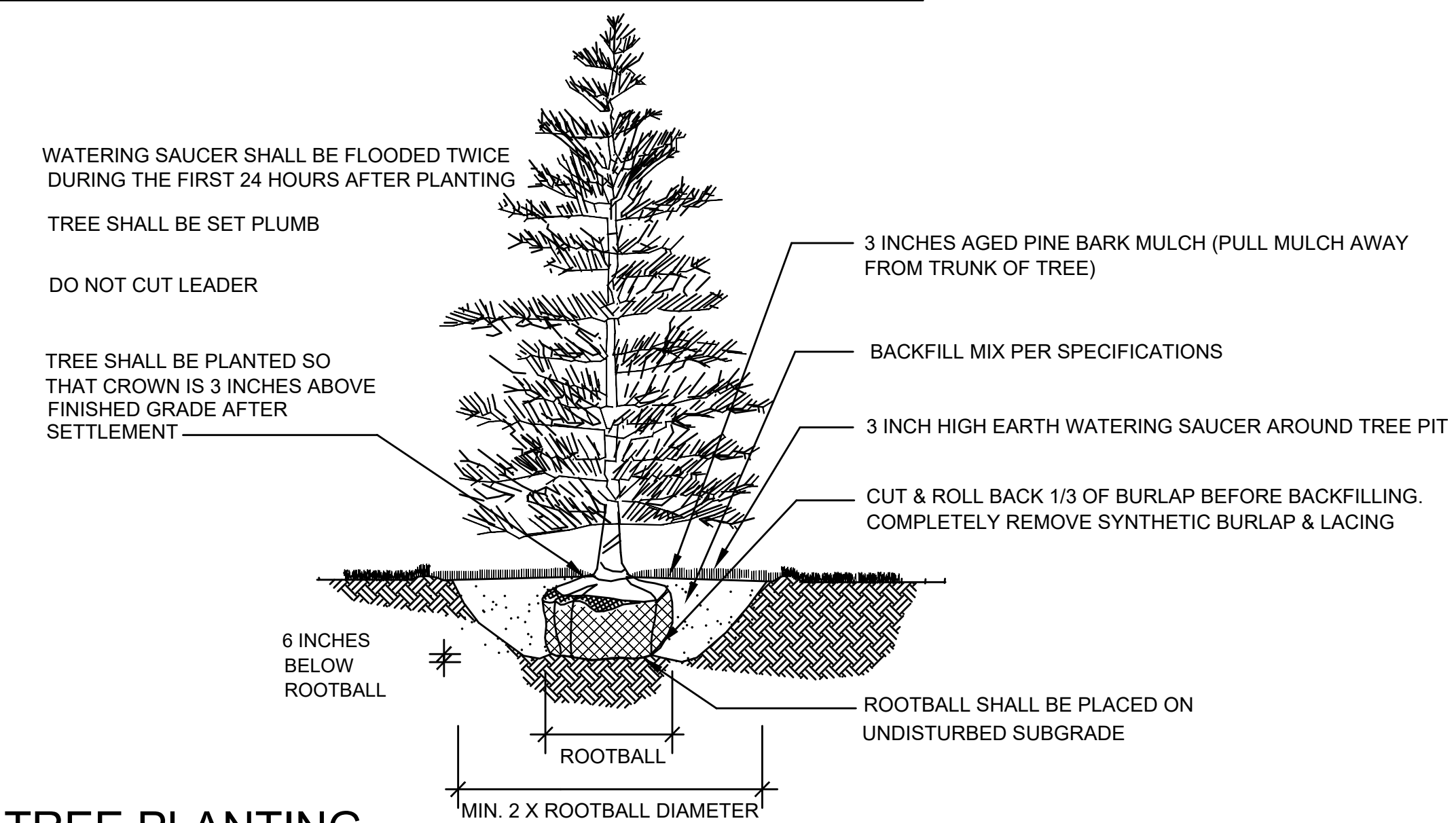
**2 CONTAINERIZED SHRUB PLANTING (SLOPE) DETAIL**

NOT TO SCALE



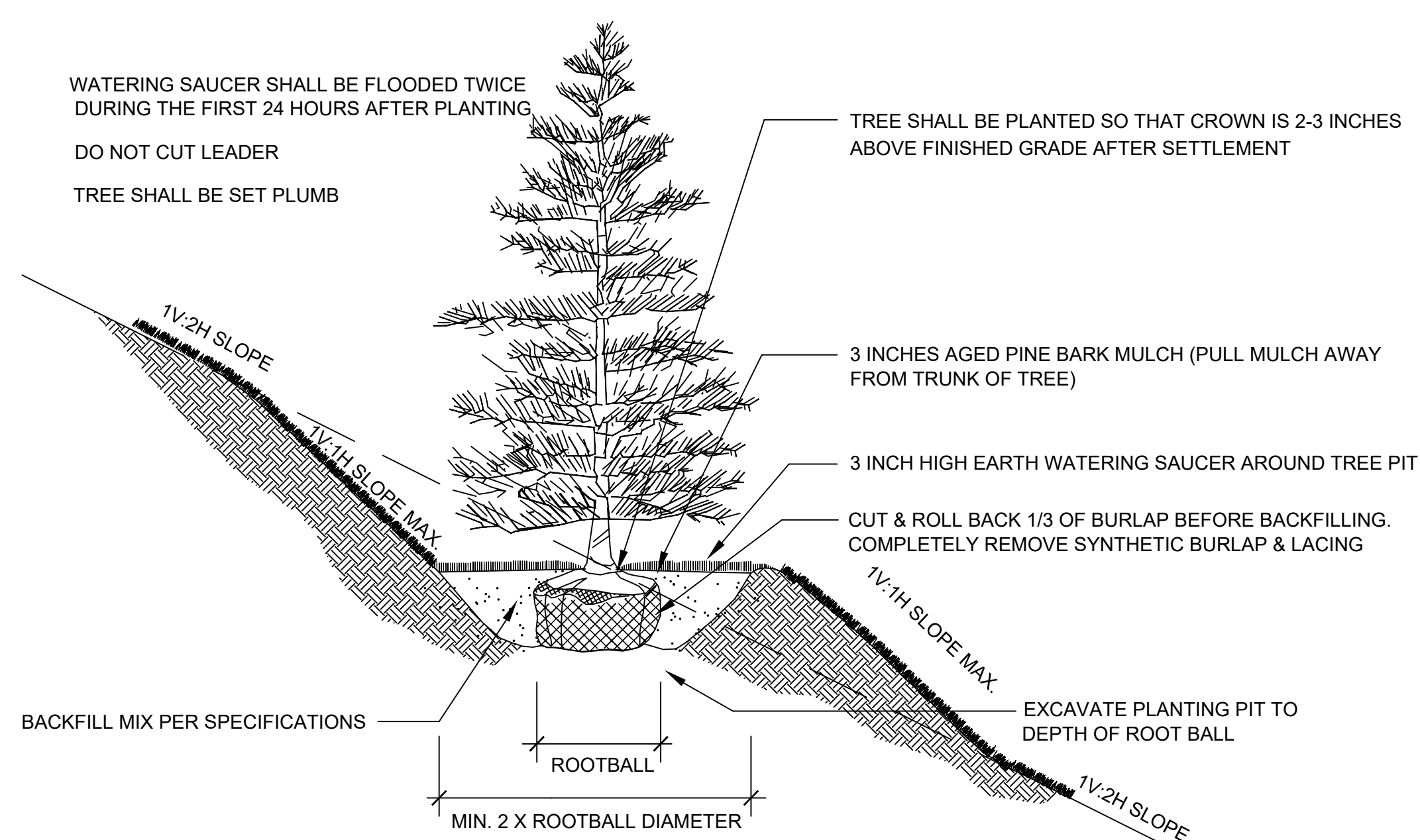
**3 DECIDUOUS TREE PLANTING**

NOT TO SCALE



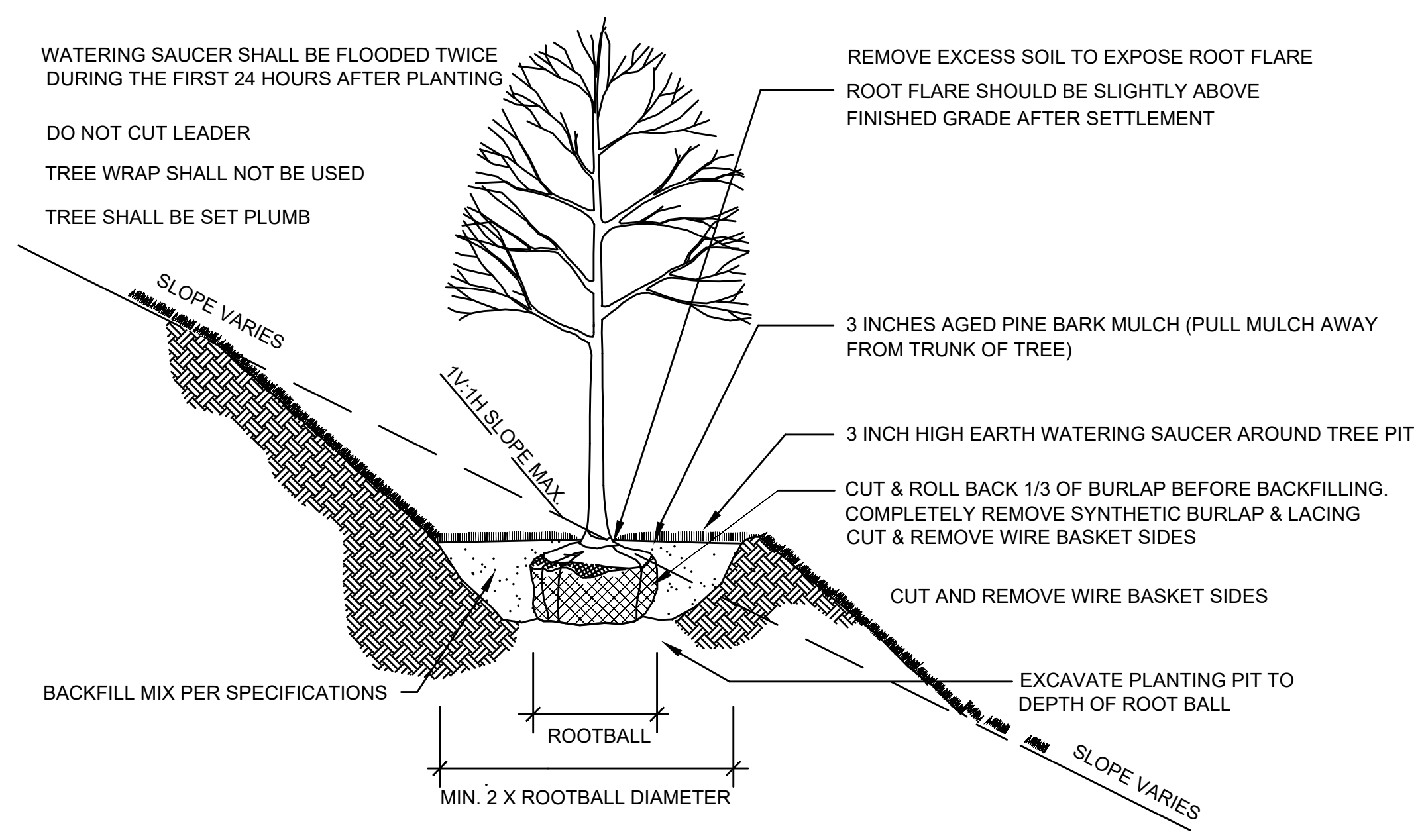
**4 EVERGREEN TREE PLANTING**

NOT TO SCALE



**5 EVERGREEN TREE PLANTING (SLOPE)**

NOT TO SCALE



**6 DECIDUOUS TREE PLANTING (SLOPE)**

NOT TO SCALE



CONSTRUCTION PLANS  
SEE SHEET 26

UTILITY PLANS  
SEE SHEET 92

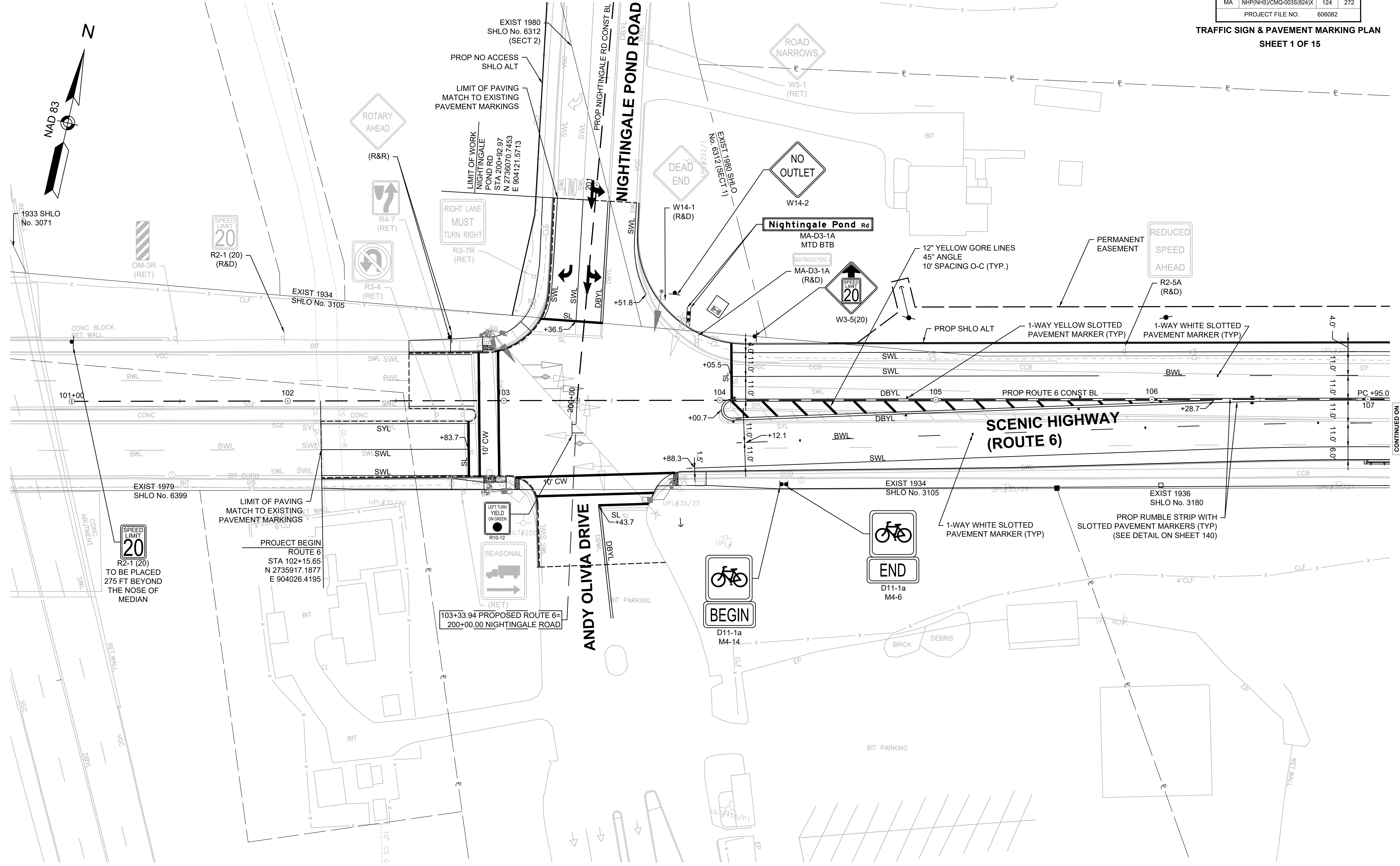
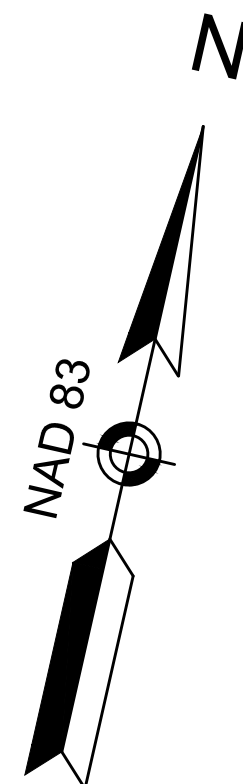
SIGNAL PLANS  
SEE SHEET 141

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	124	272
PROJECT FILE NO.		606082	

**TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 1 OF 15**



1933 SHLO No. 3071

SPEED LIMIT 20  
R2-1 (20) (R&D)

EXIST 1934 SHLO No. 3105

EXIST 1980 SHLO No. 6312 (SECT 2)  
PROP NO ACCESS SHLO ALT  
LIMIT OF PAVING MATCH TO EXISTING PAVEMENT MARKINGS

LIMIT OF WORK NIGHTINGALE POND RD  
STA 200+92.87  
N 2736070.7453  
E 904121.5713

RIGHT LANE MUST TURN RIGHT  
R3-7R (RET)

NIGHTINGALE POND ROAD

ROAD NARROWS  
W5-1 (RET)

NO OUTLET  
W14-2

Nightingale Pond rd  
MA-D3-1A MTD BTB  
MA-D3-1A (R&D)

SPEED LIMIT 20  
W3-5(20)

12" YELLOW GORE LINES  
45° ANGLE  
10' SPACING O-C (TYP.)

PERMANENT EASEMENT

REDUCED SPEED AHEAD  
R2-5A (R&D)

1-WAY YELLOW SLOTTED PAVEMENT MARKER (TYP)

1-WAY WHITE SLOTTED PAVEMENT MARKER (TYP)

SCENIC HIGHWAY (ROUTE 6)

SPEED LIMIT 20  
R2-1 (20)  
TO BE PLACED 275 FT BEYOND THE NOSE OF MEDIAN

LIMIT OF PAVING MATCH TO EXISTING PAVEMENT MARKINGS

PROJECT BEGIN ROUTE 6  
STA 102+15.65  
N 2735917.1877  
E 904026.4195

103+33.94 PROPOSED ROUTE 6= 200+00.00 NIGHTINGALE ROAD

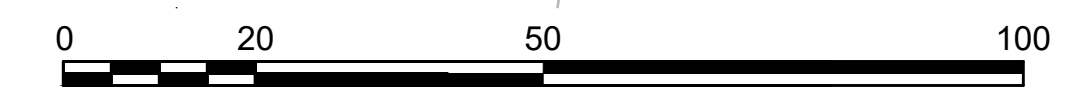
ANDY OLIVIA DRIVE

BICYCLE BEGIN  
D11-1a M4-14

BICYCLE END  
D11-1a M4-6

1-WAY WHITE SLOTTED PAVEMENT MARKER (TYP)

PROP RUMBLE STRIP WITH SLOTTED PAVEMENT MARKERS (TYP) (SEE DETAIL ON SHEET 140)



SCALE: 1" = 20'

CONTINUED ON SHEET NO. 125

CONSTRUCTION PLANS  
SEE SHEET 27

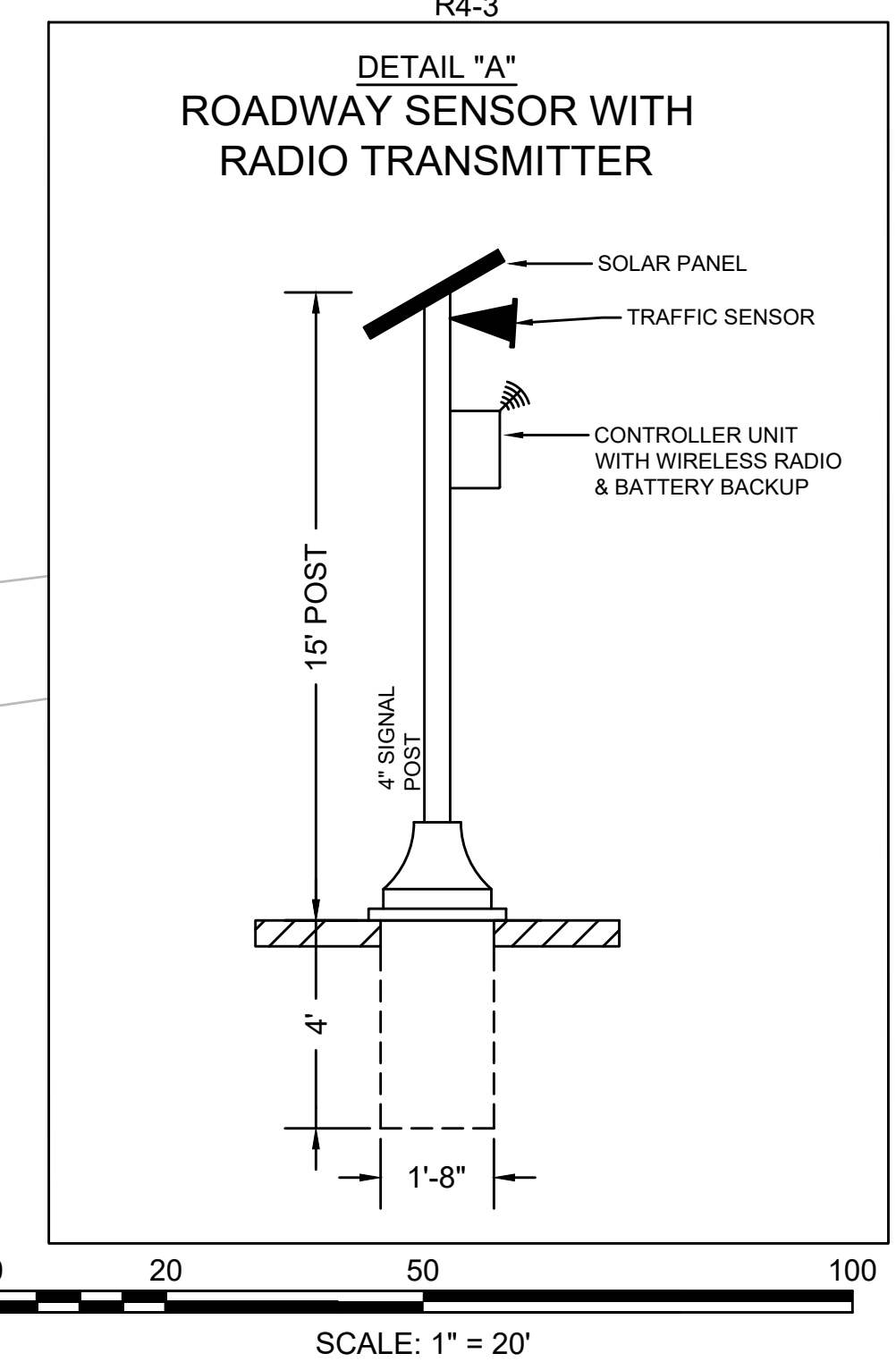
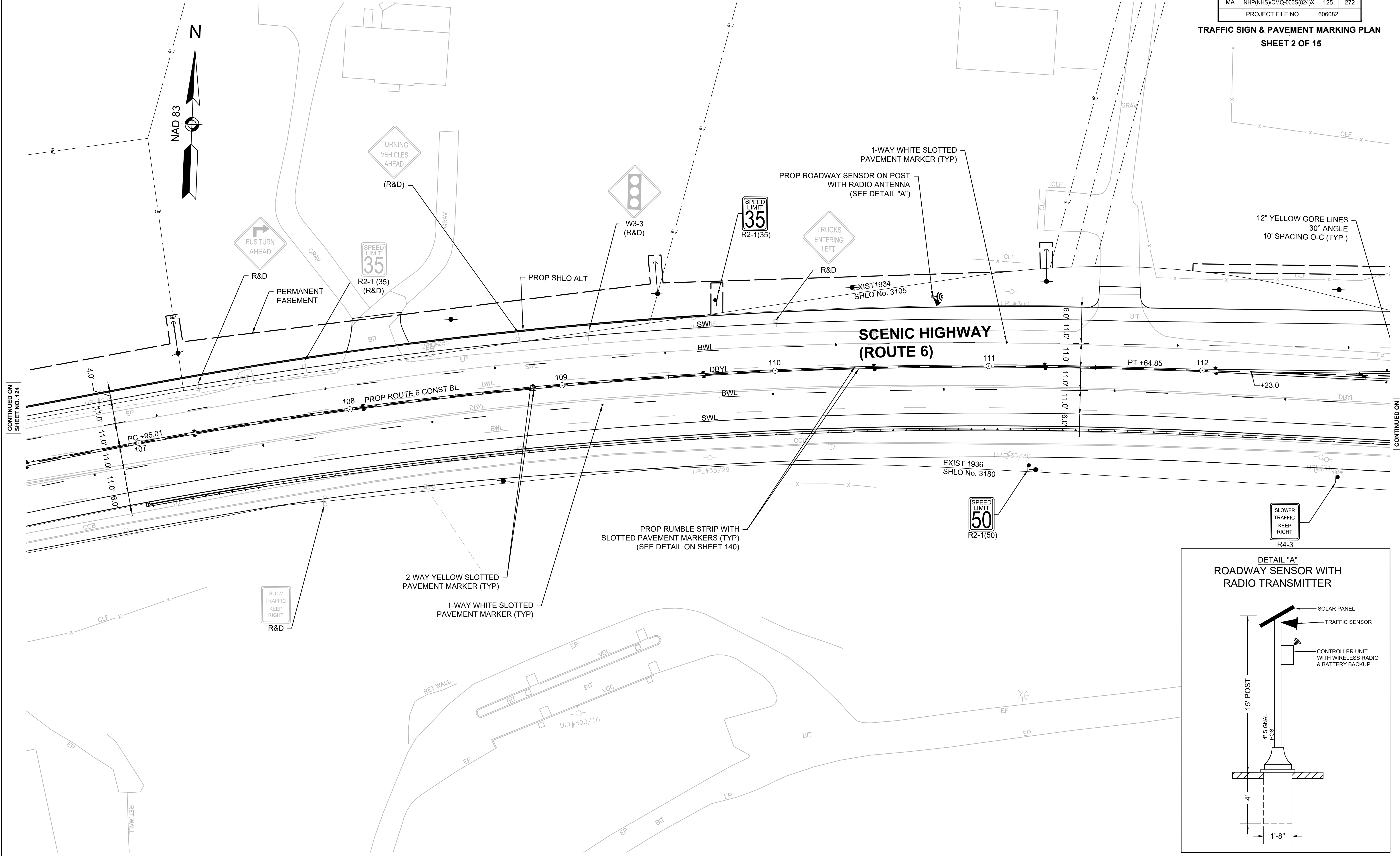
UTILITY PLANS  
SEE SHEET 93

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	125	272
PROJECT FILE NO.		606082	

**TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 2 OF 15**



CONTINUED ON  
SHEET NO. 124

CONTINUED ON  
SHEET NO. 126



CONSTRUCTION PLANS  
SEE SHEET 28

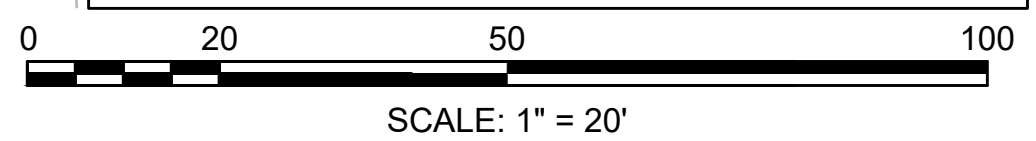
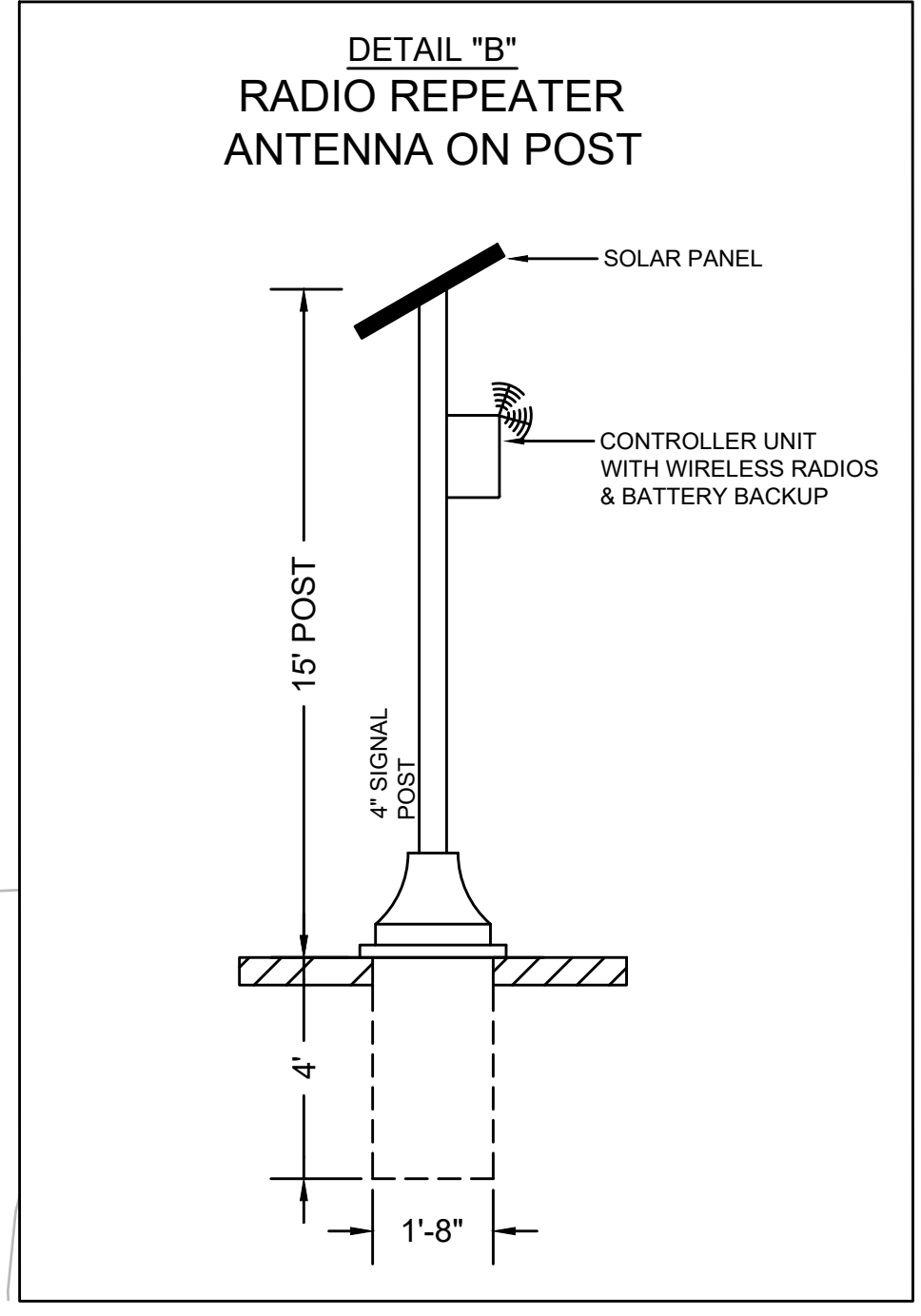
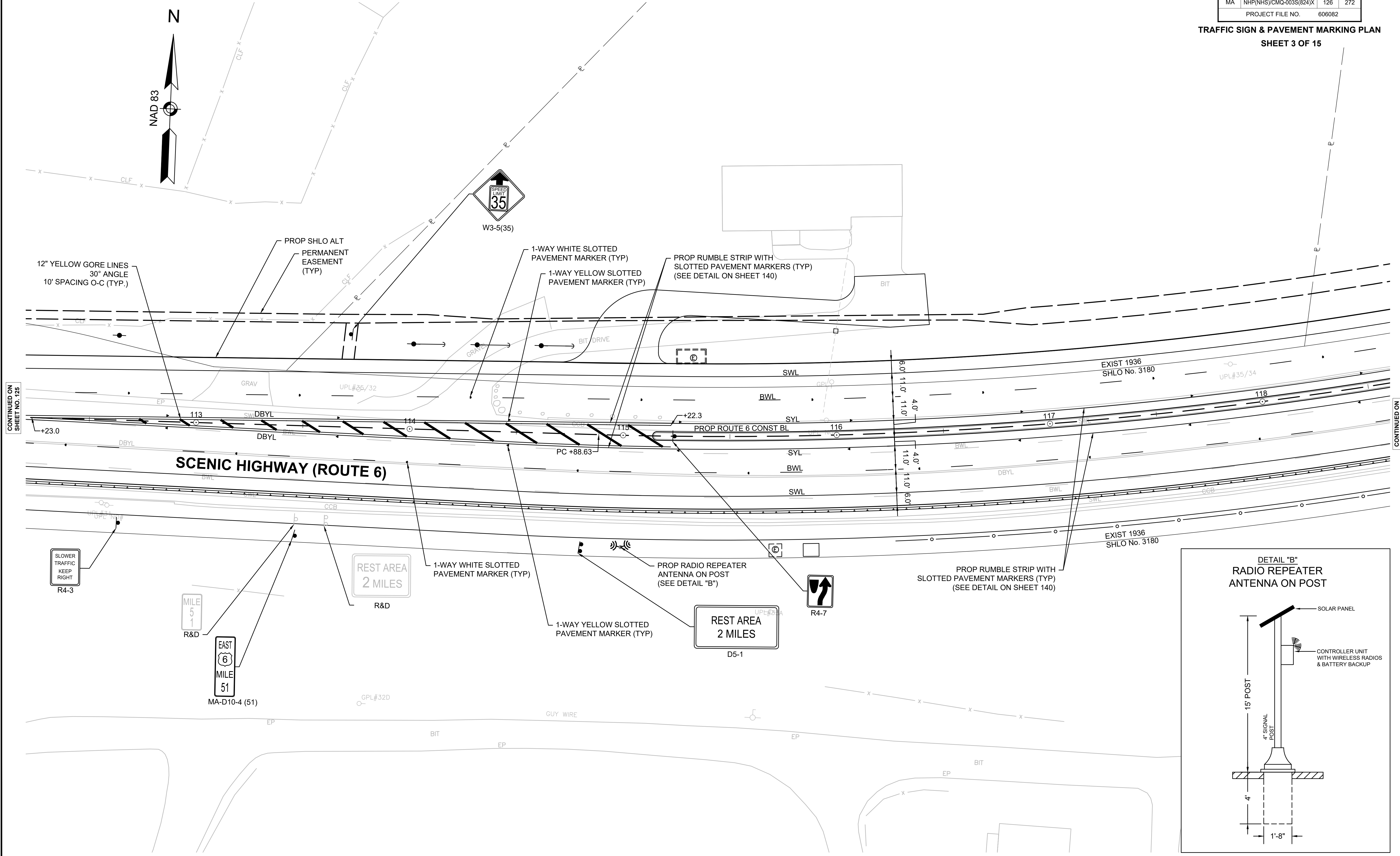
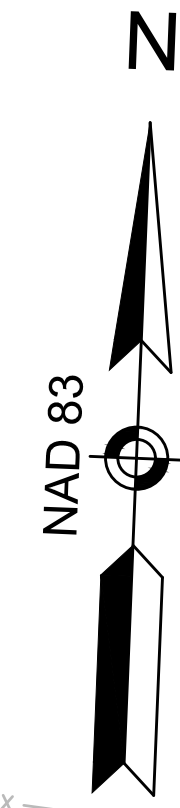
UTILITY PLANS  
SEE SHEET 94

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	126	272
PROJECT FILE NO.		606082	

**TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 3 OF 15**



CONTINUED ON  
SHEET NO. 125

CONTINUED ON  
SHEET NO. 127

CONSTRUCTION PLANS  
SEE SHEET 29

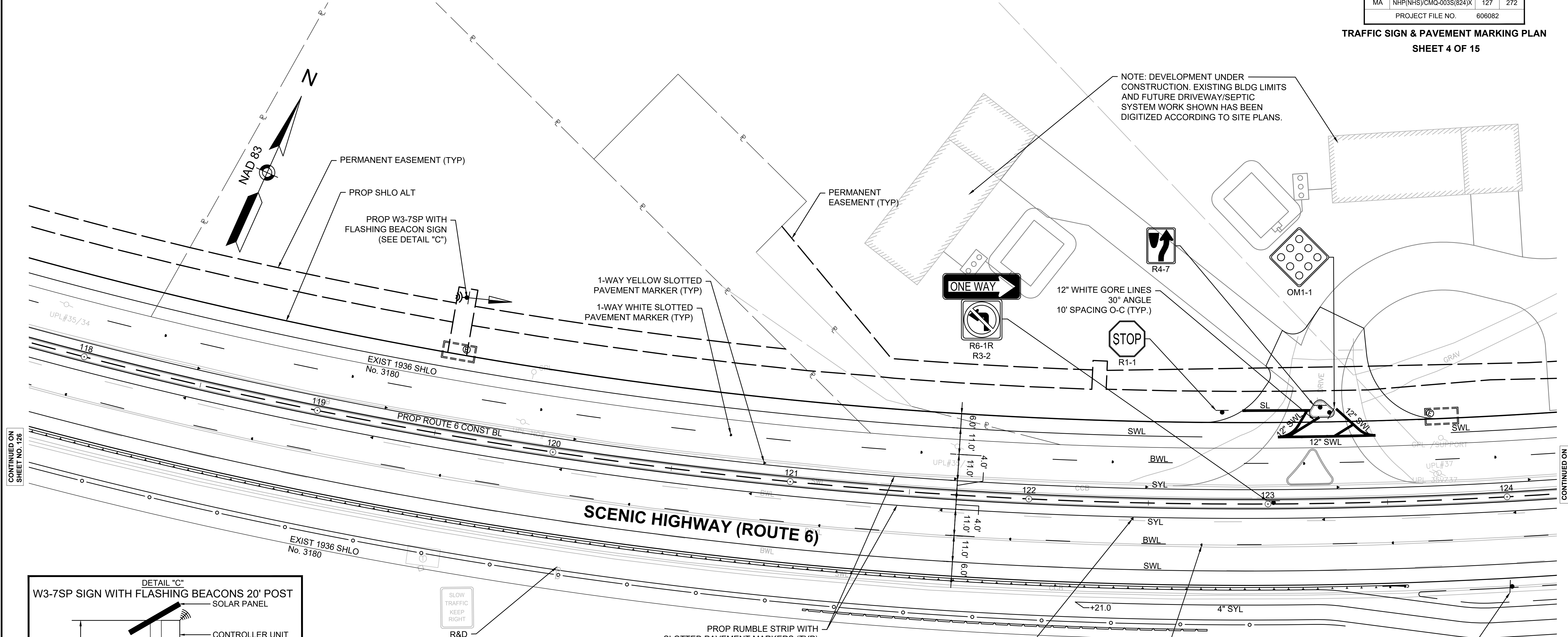
UTILITY PLANS  
SEE SHEET 95

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	127	272
PROJECT FILE NO.		606082	

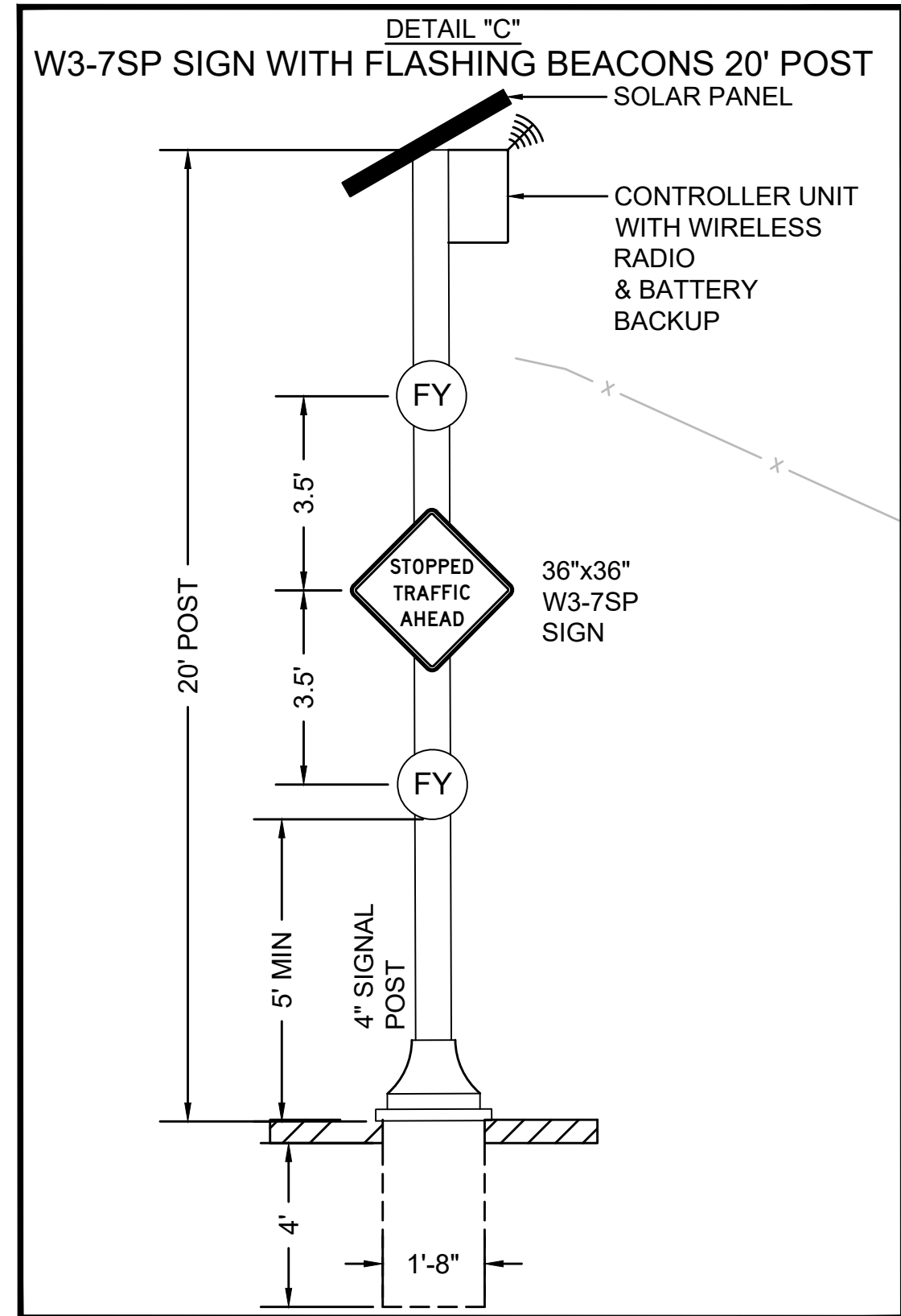
**TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 4 OF 15**



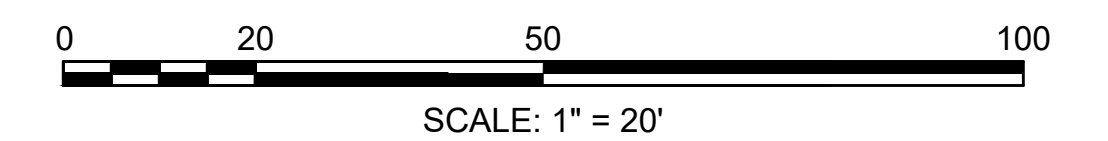
NOTE: DEVELOPMENT UNDER CONSTRUCTION. EXISTING BLDG LIMITS AND FUTURE DRIVEWAY/SEPTIC SYSTEM WORK SHOWN HAS BEEN DIGITIZED ACCORDING TO SITE PLANS.

CONTINUED ON SHEET NO. 126

CONTINUED ON SHEET NO. 128



MAJOR ITEMS REQUIRED		
PAY ITEM	QUANTITY	ITEM
824.11	1	W3-7SP SIGN
	2	15' SIGNAL POST, BASE, & FDN.
	1	20' SIGNAL POST, BASE, & FDN.
	3	SOLAR POWERED PANEL
	2	BATTERY BACKUP
	1	CONTROLLER UNIT WITH WIRELESS RADIO AND BATTERY BACKUP
	1	RADIO/VIDEO VEHICLE DETECTOR (RVVD)
	4	RADIO ANTENNA
	2	SIGNAL HEAD, 1 SECTION (12" LED)
	PLUS ALL WIRE, CABLE, CONDUIT, MOUNTING HARDWARE, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE INSTALLATION	





CONSTRUCTION PLANS  
SEE SHEET 30

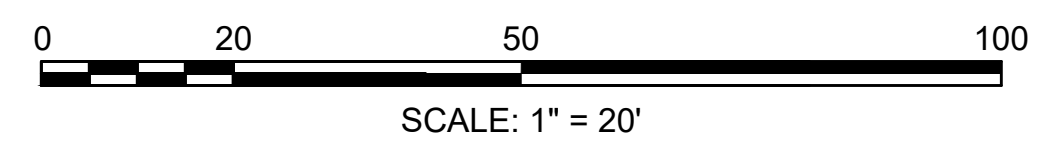
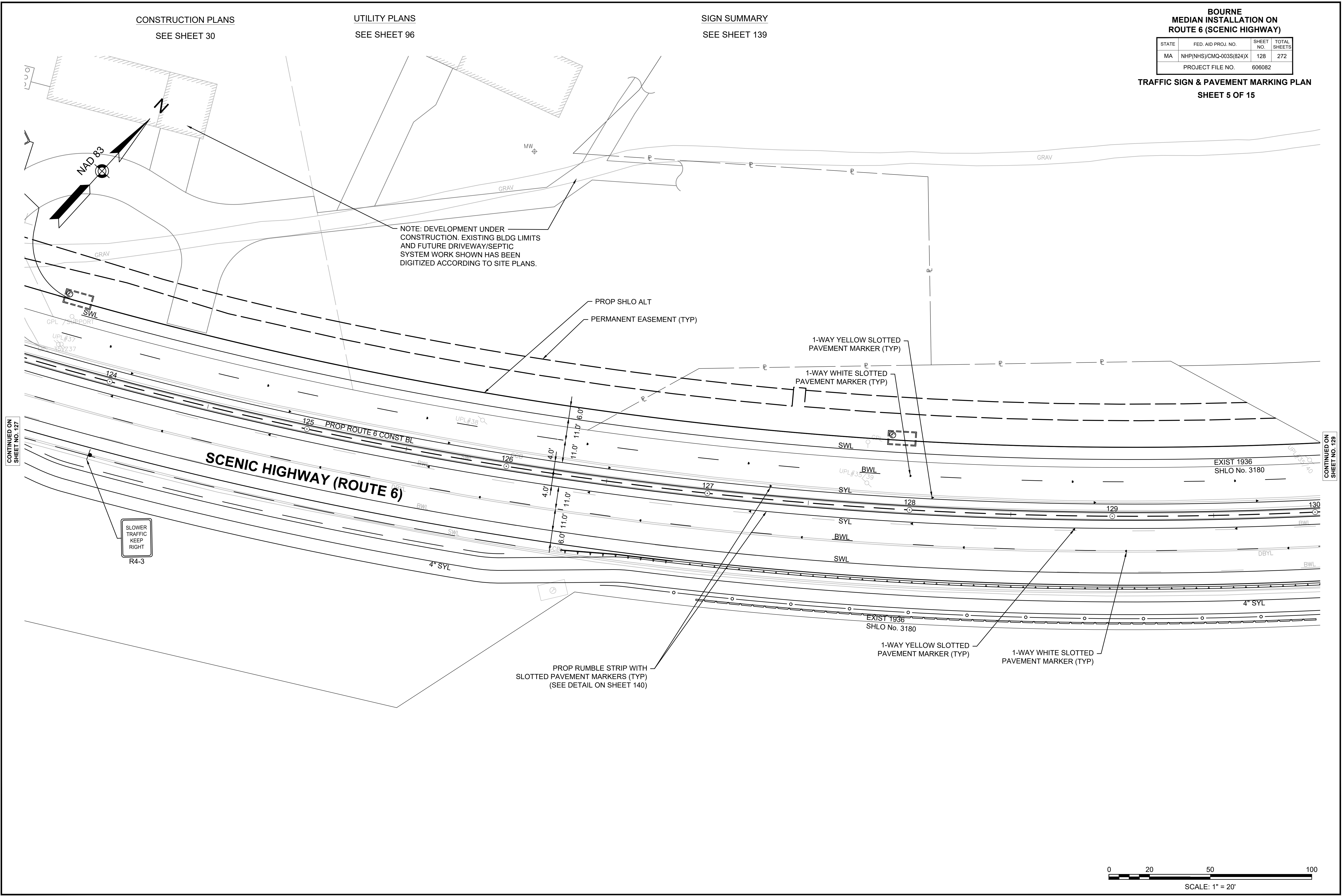
UTILITY PLANS  
SEE SHEET 96

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	128	272
PROJECT FILE NO.		606082	

TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 5 OF 15



606082\_TPL(PVMT MARKINGS).DWG Plotted on 17-Mar-2025 10:35 AM

CONSTRUCTION PLANS  
SEE SHEET 31

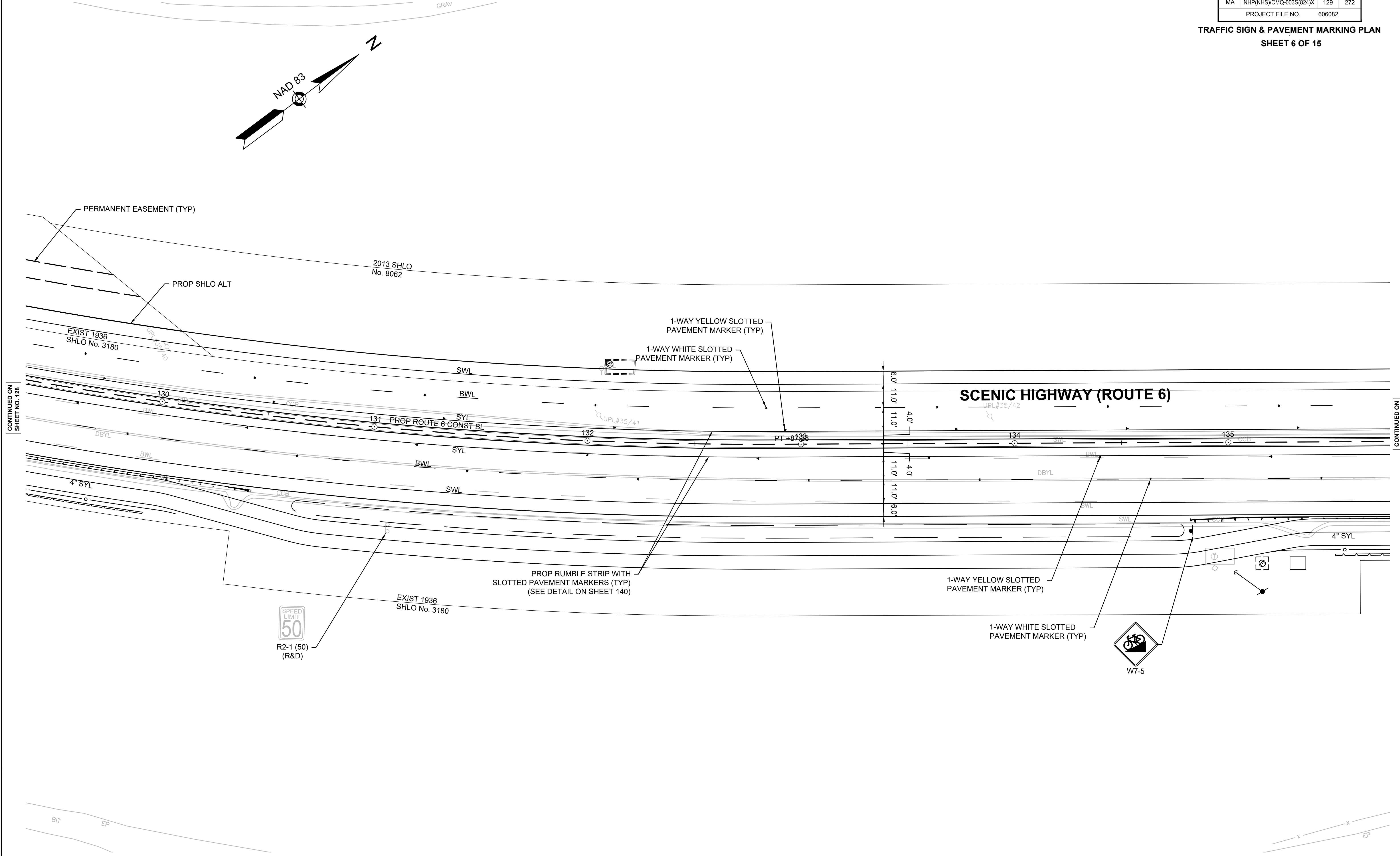
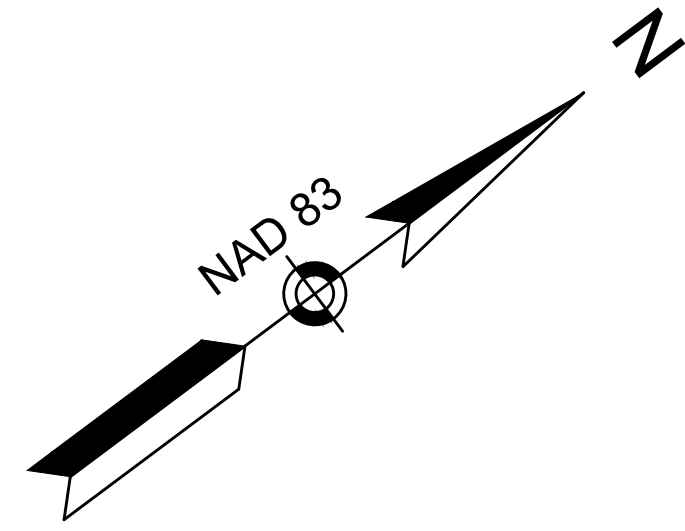
UTILITY PLANS  
SEE SHEET 97

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

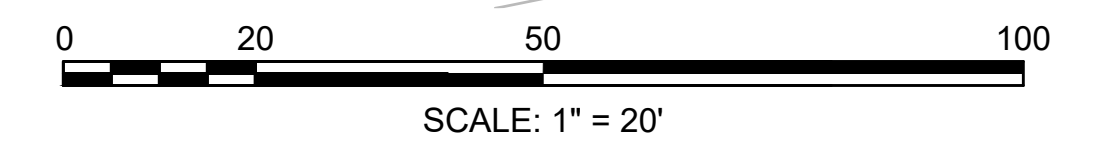
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	129	272
PROJECT FILE NO.		606082	

TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 6 OF 15



CONTINUED ON  
SHEET NO. 128

CONTINUED ON  
SHEET NO. 130





CONSTRUCTION PLANS  
SEE SHEET 32

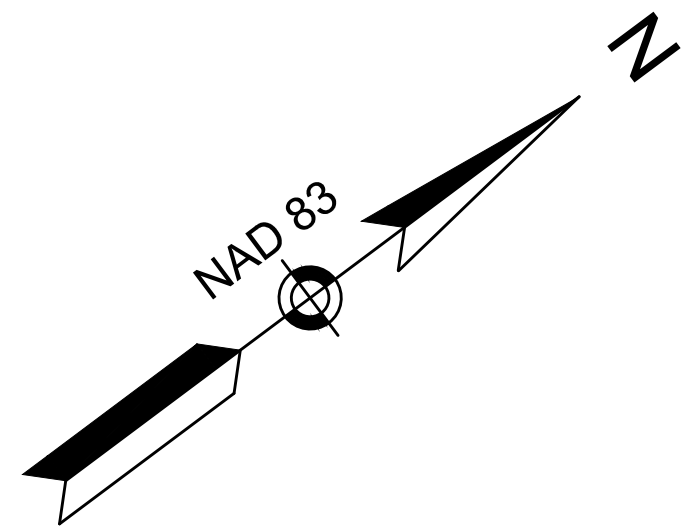
UTILITY PLANS  
SEE SHEET 98

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	130	272
PROJECT FILE NO.		606082	

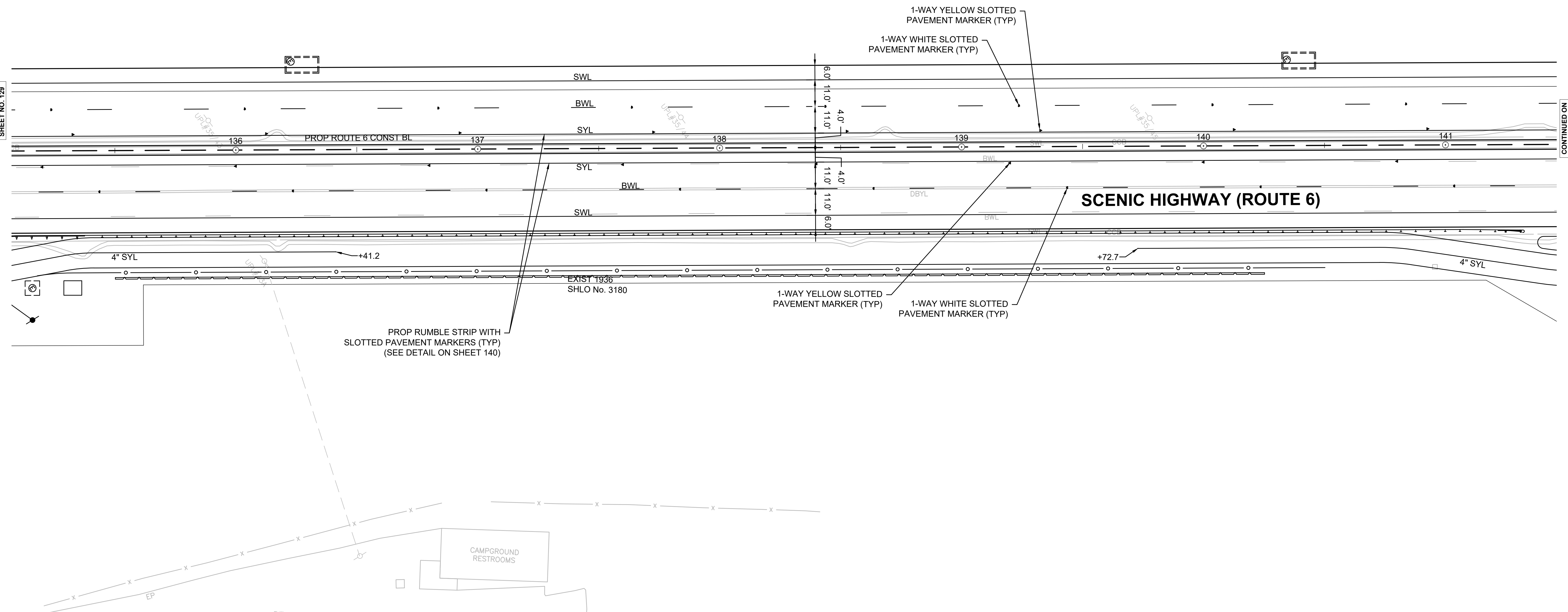
TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 7 OF 15



EXIST 2013  
SHLO No. 8062

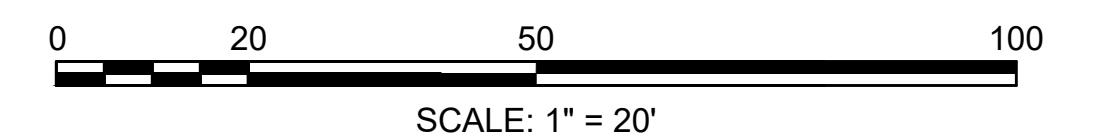
CONTINUED ON  
SHEET NO. 129

CONTINUED ON  
SHEET NO. 131



PROP RUMBLE STRIP WITH  
SLOTTED PAVEMENT MARKERS (TYP)  
(SEE DETAIL ON SHEET 140)

**SCENIC HIGHWAY (ROUTE 6)**



CONSTRUCTION PLANS  
SEE SHEET 33

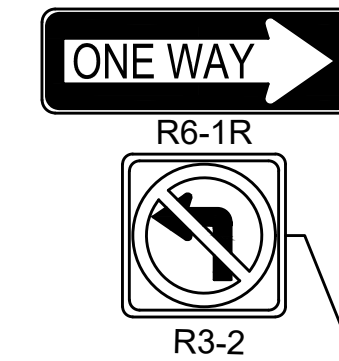
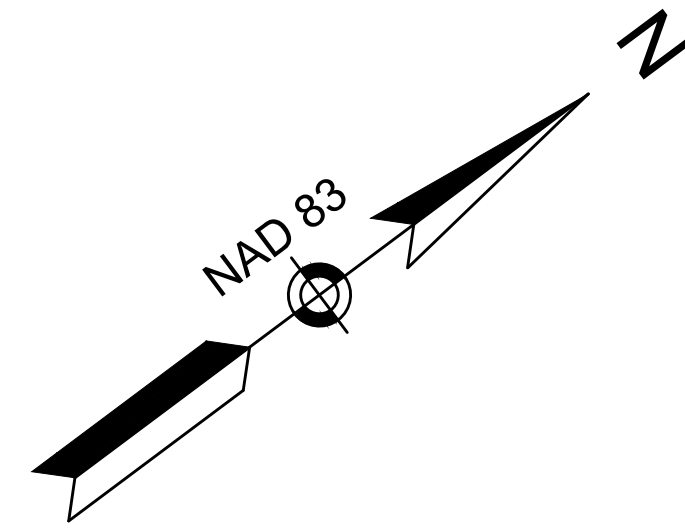
UTILITY PLANS  
SEE SHEET 99

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	131	272
PROJECT FILE NO.		606082	

TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 8 OF 15



EXIST 2013  
SHLO No. 8062

1-WAY YELLOW SLOTTED  
PAVEMENT MARKER (TYP)  
1-WAY WHITE SLOTTED  
PAVEMENT MARKER (TYP)

SWL

BWL

SYL

SYL

BWL

DBYL

SWL

UPL#35/47

UPL#35/46

UPL#35/48

PROP ROUTE 6 CONST BL

**SCENIC HIGHWAY (ROUTE 6)**

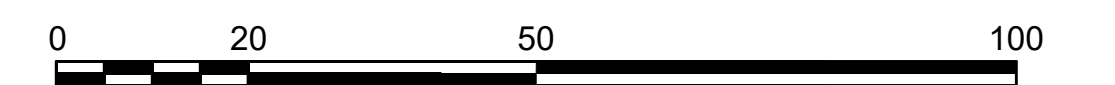
1-WAY YELLOW SLOTTED  
PAVEMENT MARKER (TYP)  
1-WAY WHITE SLOTTED  
PAVEMENT MARKER (TYP)

PROP RUMBLE STRIP WITH  
SLOTTED PAVEMENT MARKERS (TYP)  
(SEE DETAIL ON SHEET 140)

EXIST 1936  
SHLO No. 3180

CONTINUED ON  
SHEET NO. 130

CONTINUED ON  
SHEET NO. 132



SCALE: 1" = 20'



CONSTRUCTION PLANS  
SEE SHEET 34

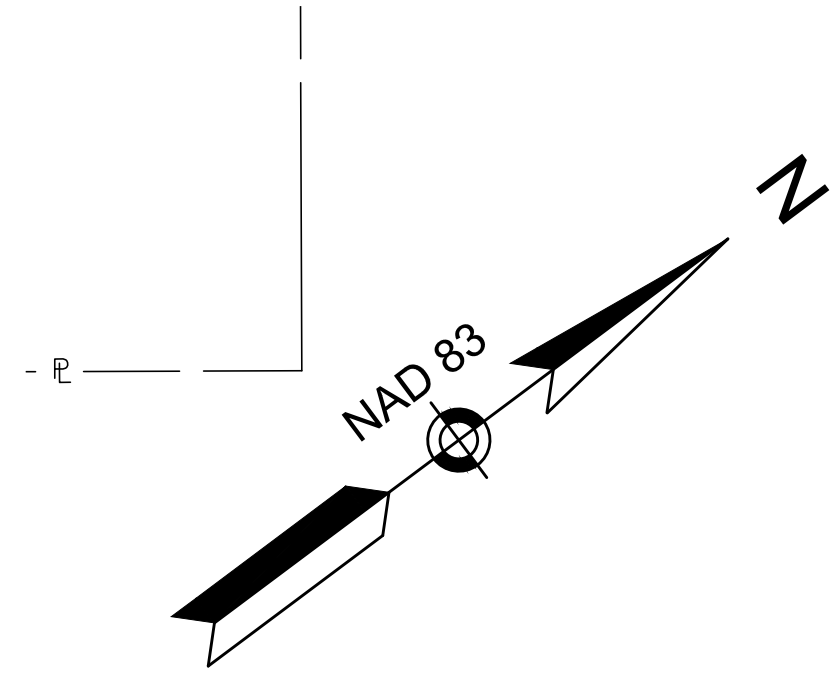
UTILITY PLANS  
SEE SHEET  
100

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	132	272
PROJECT FILE NO.		606082	

TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 9 OF 15



EXIST 2013  
SHLO No. 8062

1-WAY YELLOW SLOTTED  
PAVEMENT MARKER (TYP)  
1-WAY WHITE SLOTTED  
PAVEMENT MARKER (TYP)

CONTINUED ON  
SHEET NO. 131

CONTINUED ON  
SHEET NO. 133

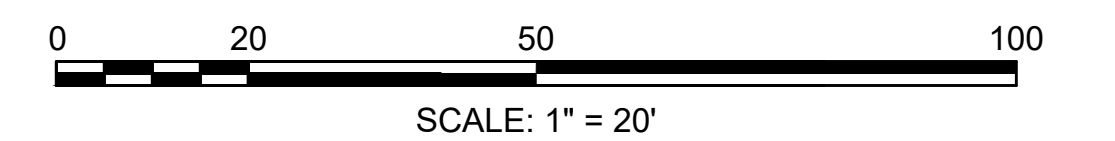
**SCENIC HIGHWAY (ROUTE 6)**

PROP RUMBLE STRIP WITH  
SLOTTED PAVEMENT MARKERS (TYP)  
(SEE DETAIL ON SHEET 140)

EXIST 1936  
SHLO No. 3180

1-WAY YELLOW SLOTTED  
PAVEMENT MARKER (TYP)

1-WAY WHITE SLOTTED  
PAVEMENT MARKER (TYP)



CONSTRUCTION PLANS  
SEE SHEET 35

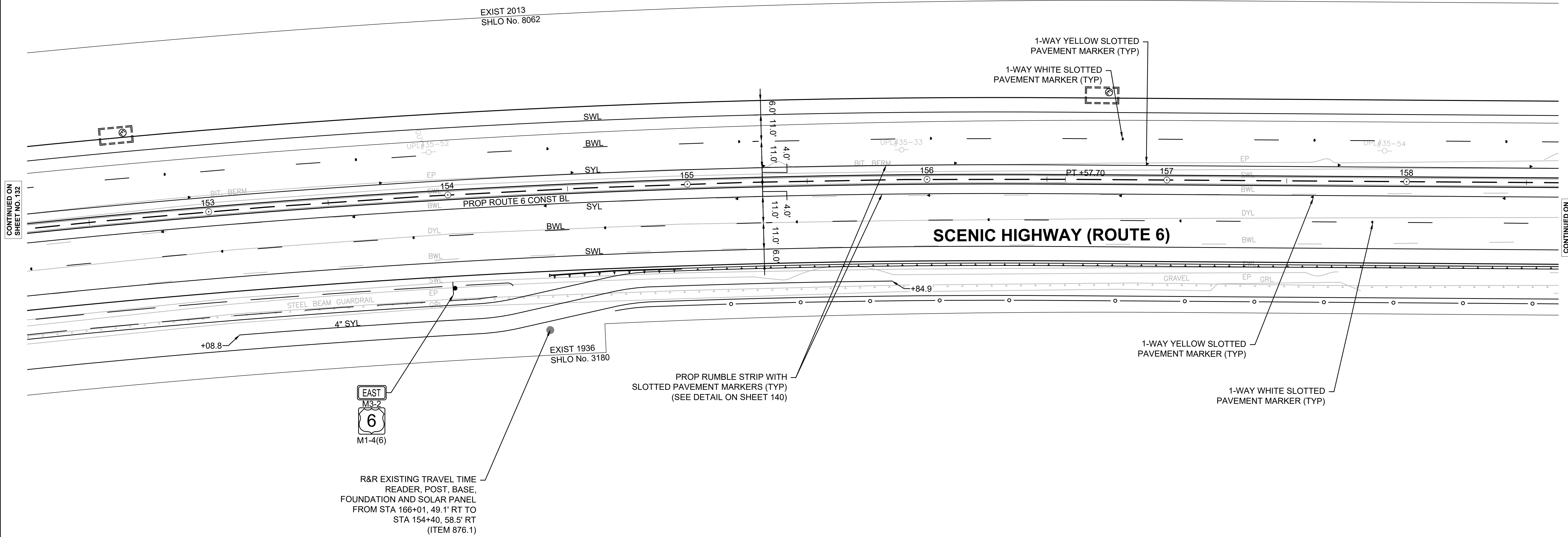
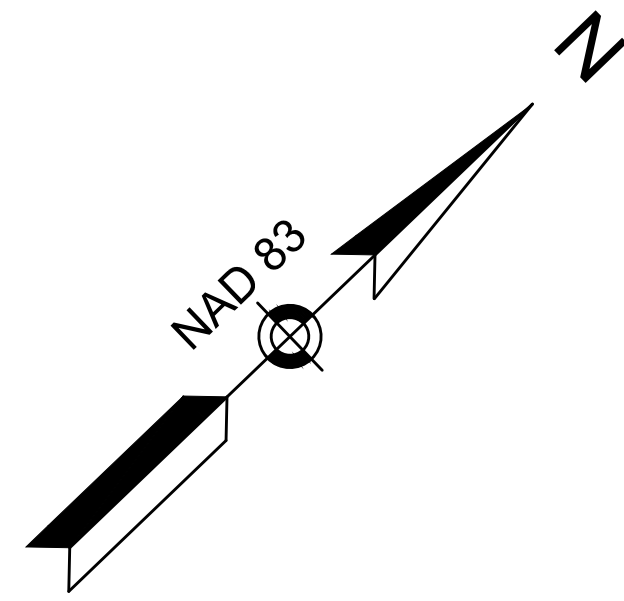
UTILITY PLANS  
SEE SHEET 101

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

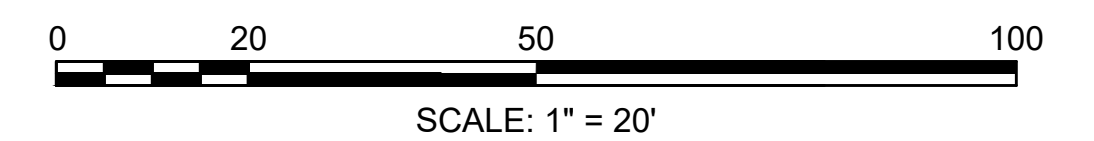
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	133	272
PROJECT FILE NO.		606082	

TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 10 OF 15



CONTINUED ON SHEET NO. 132

CONTINUED ON SHEET NO. 134





CONSTRUCTION PLANS  
SEE SHEET 36

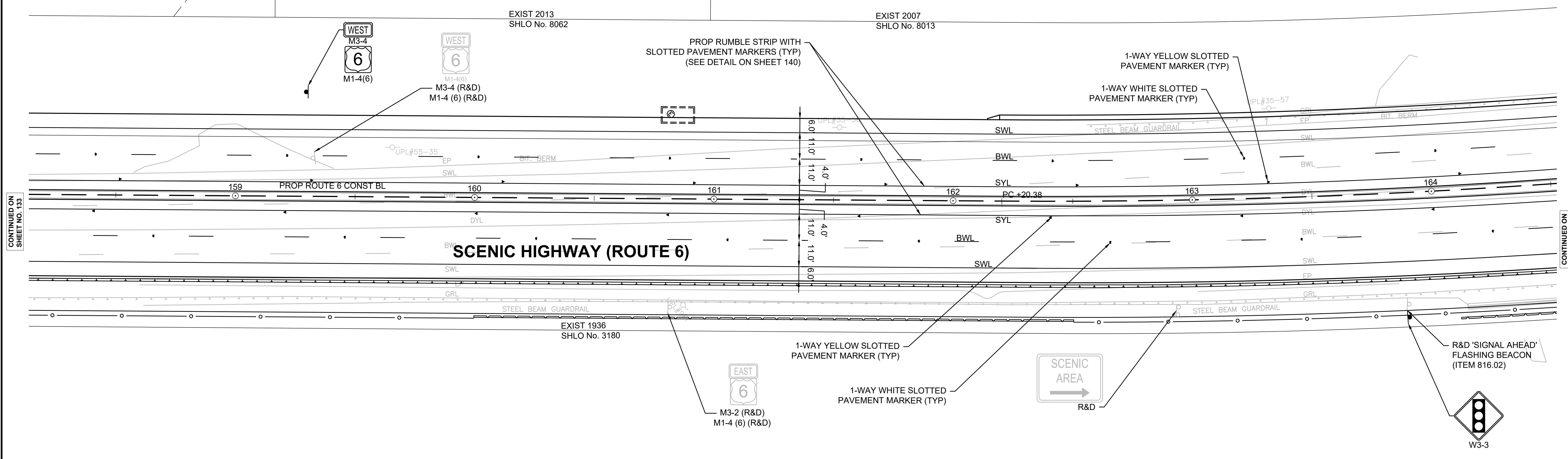
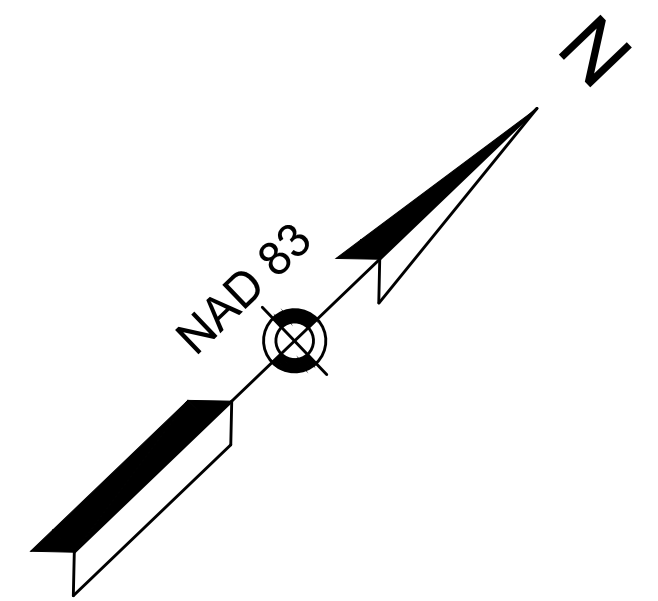
UTILITY PLANS  
SEE SHEET 102

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

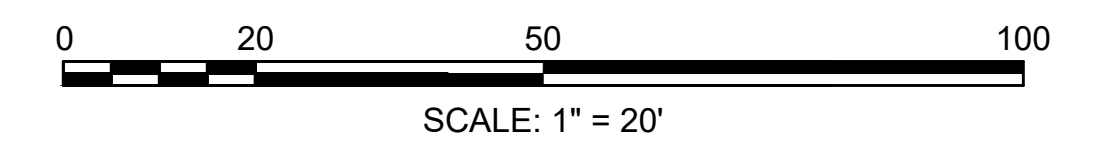
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	134	272
PROJECT FILE NO.		606082	

TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 11 OF 15



CONTINUED ON  
SHEET NO. 133

CONTINUED ON  
SHEET NO. 135



CONSTRUCTION PLANS  
SEE SHEET 37

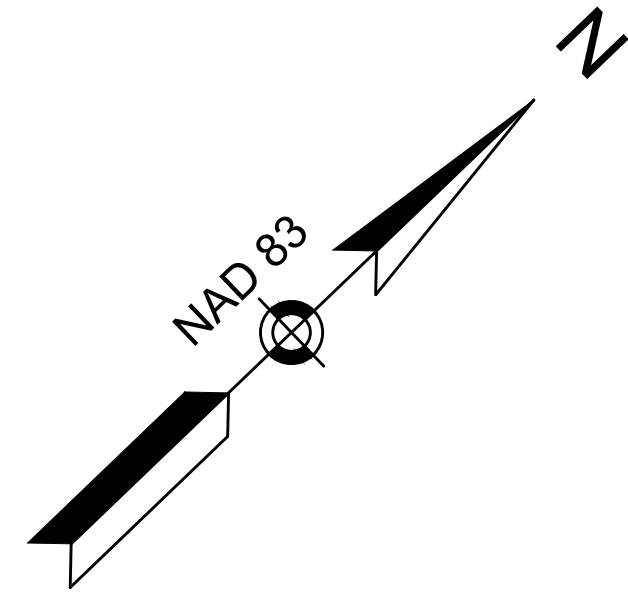
UTILITY PLANS  
SEE SHEET 103

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

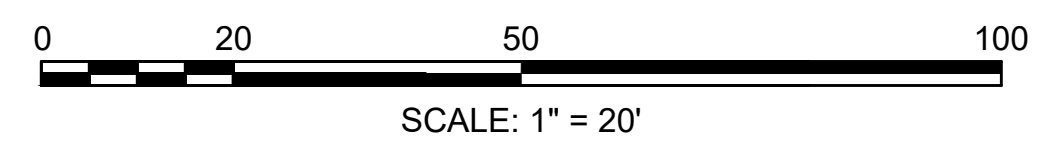
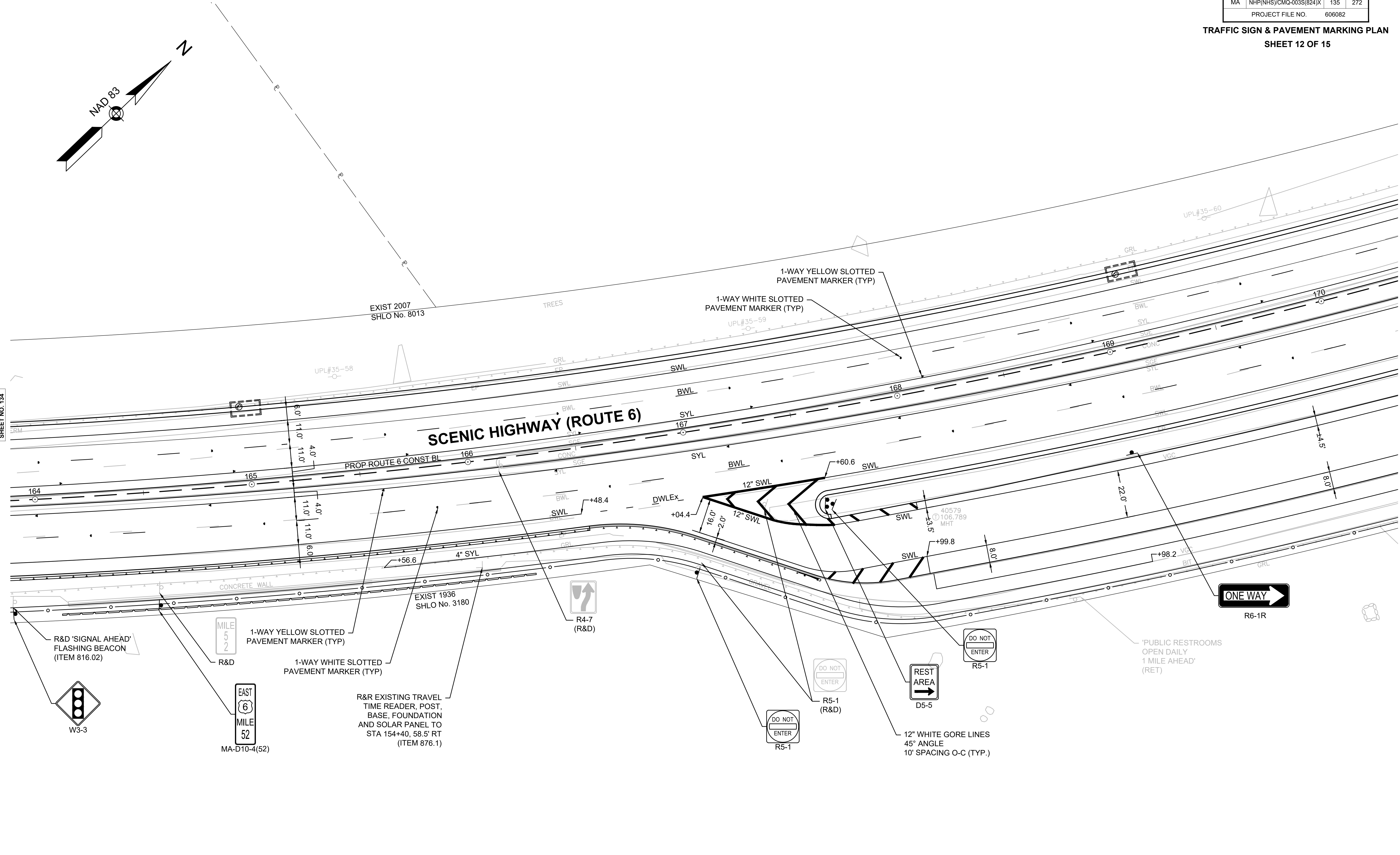
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	135	272
PROJECT FILE NO.		606082	

**TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 12 OF 15**



CONTINUED ON  
SHEET NO. 134

CONTINUED ON  
SHEET NO. 136



606082\_TFI(PVMT MARKINGS).DWG Plotted on 17-Mar-2025 10:36 AM



CONSTRUCTION PLANS  
SEE SHEET 38

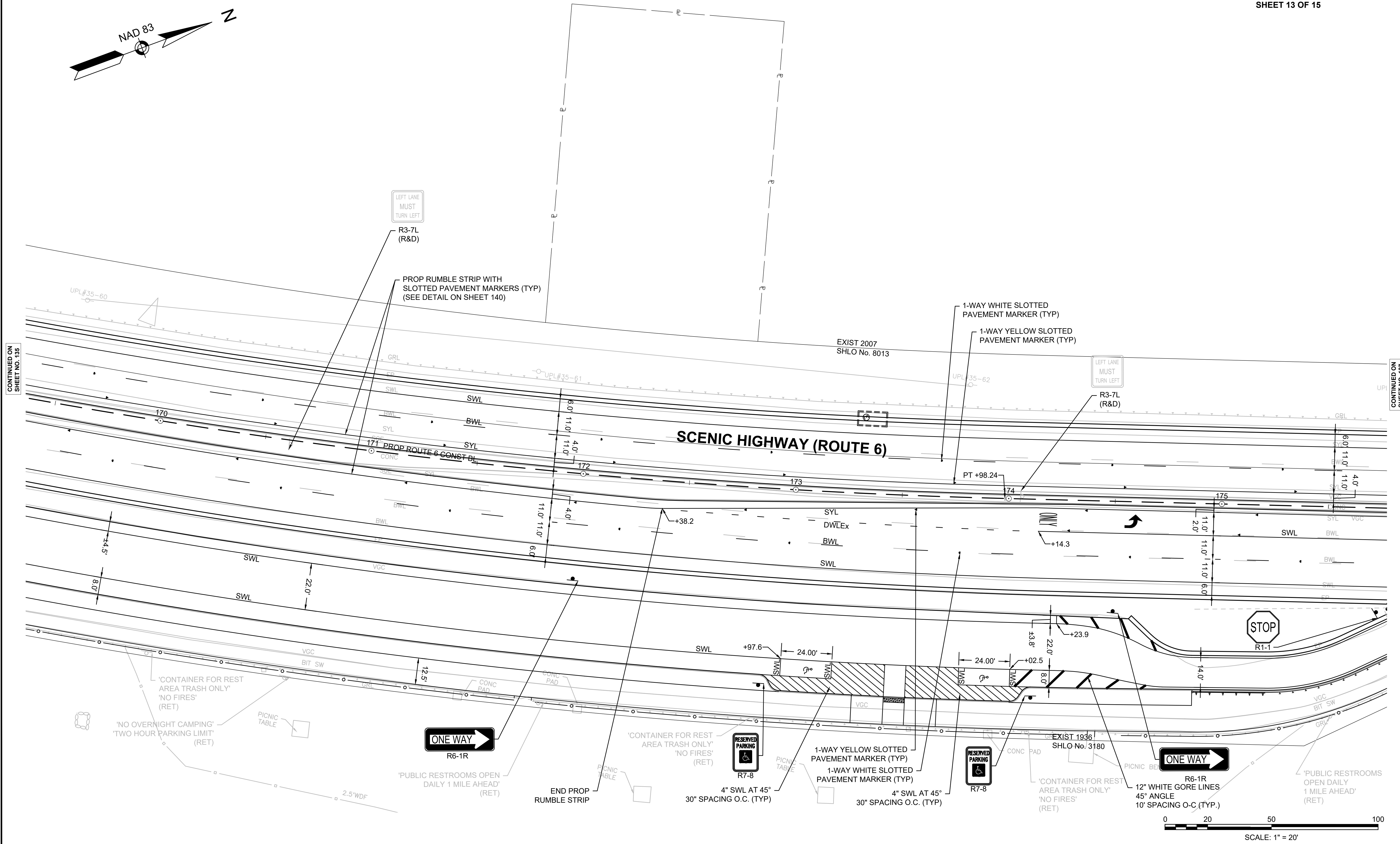
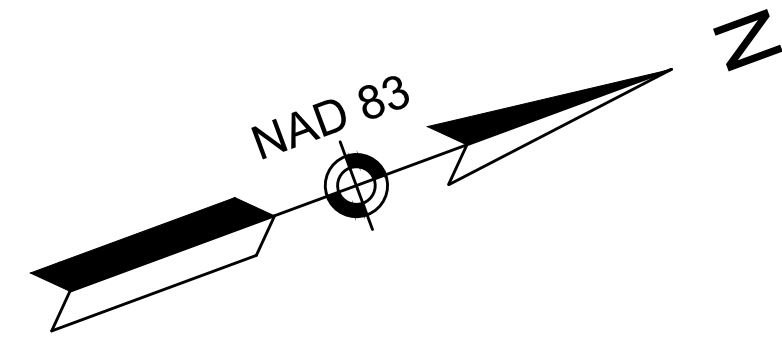
UTILITY PLANS  
SEE SHEET 104

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

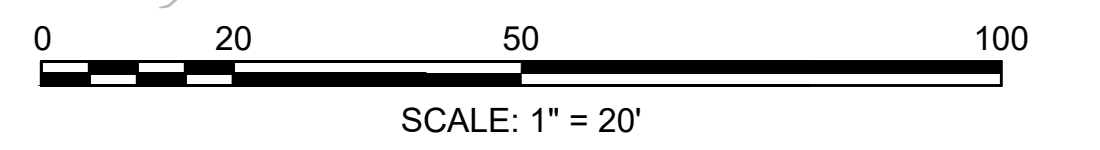
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	136	272
PROJECT FILE NO.		606082	

TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 13 OF 15



CONTINUED ON  
SHEET NO. 135

CONTINUED ON  
SHEET NO. 137



CONSTRUCTION PLANS  
SEE SHEET 39

UTILITY PLANS  
SEE SHEET 105

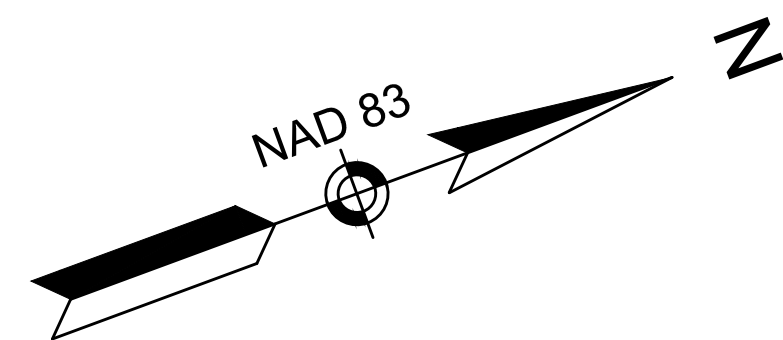
SIGNAL PLANS  
SEE SHEET 143

SIGN SUMMARY  
SEE SHEET 139

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

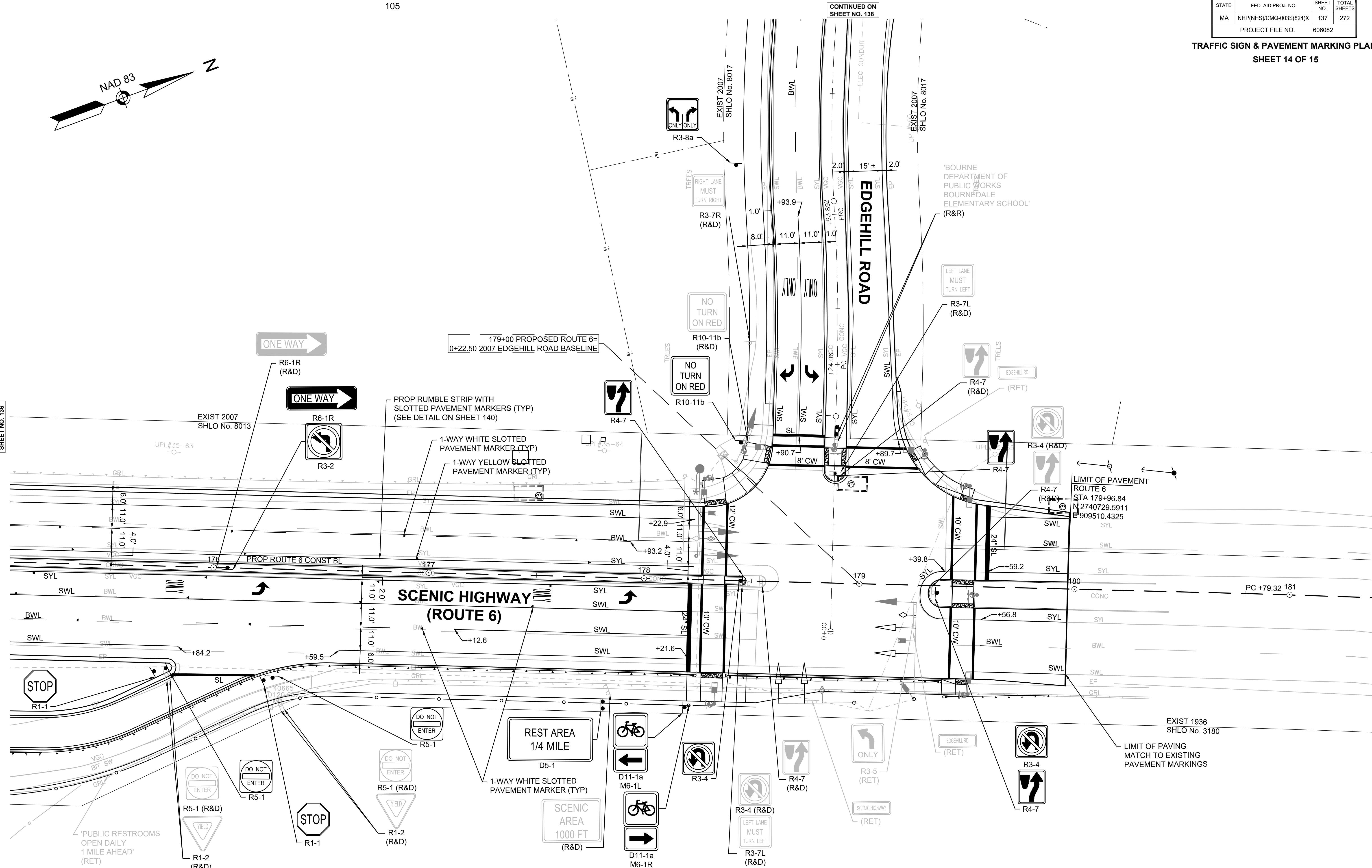
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	137	272
PROJECT FILE NO.		606082	

**TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 14 OF 15**



CONTINUED ON  
SHEET NO. 136

CONTINUED ON  
SHEET NO. 138



LIMIT OF PAVEMENT  
ROUTE 6  
STA 179+96.84  
N 2740729.5911  
E 909510.4325  
SYL

LIMIT OF PAVING  
MATCH TO EXISTING  
PAVEMENT MARKINGS

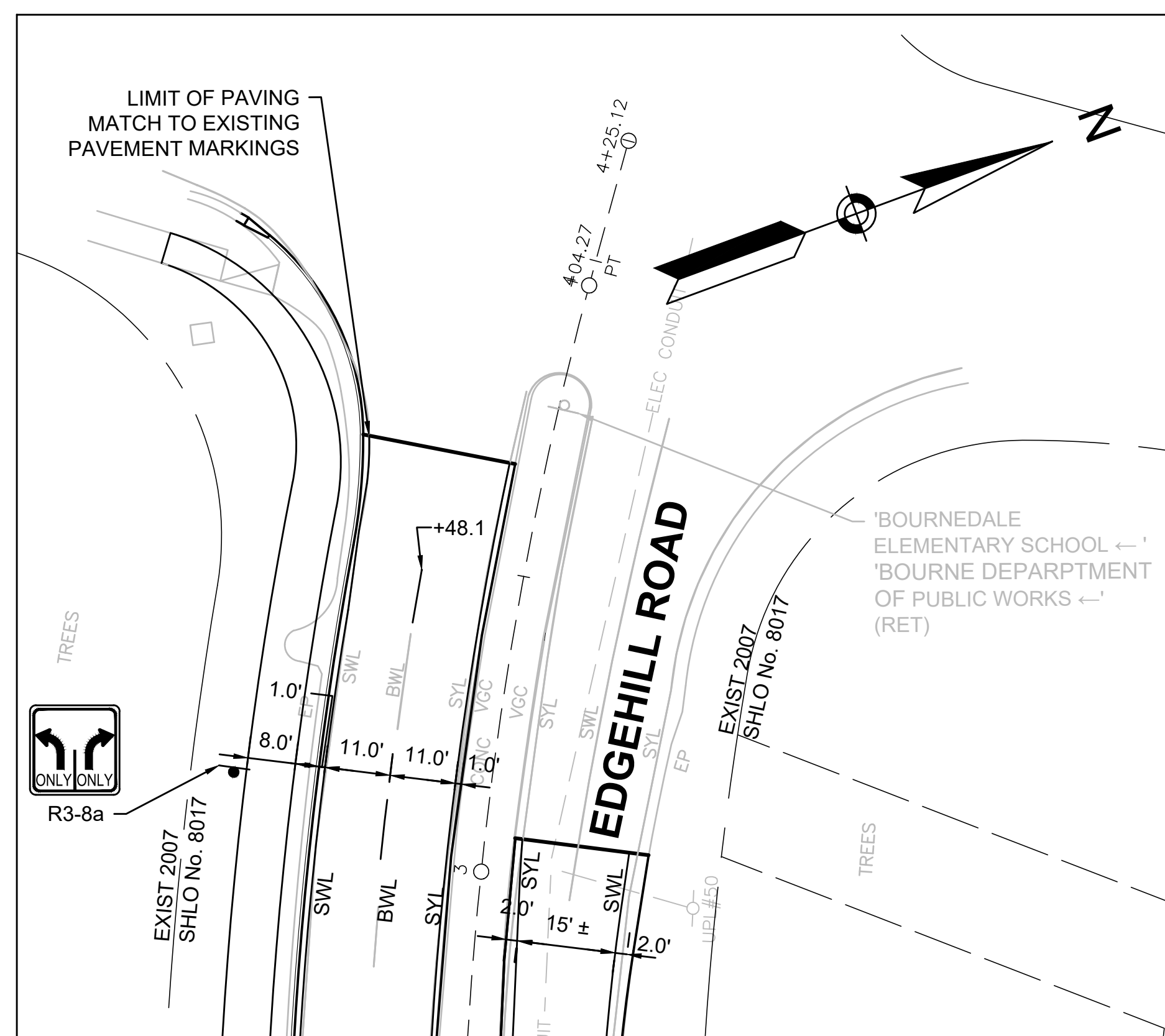




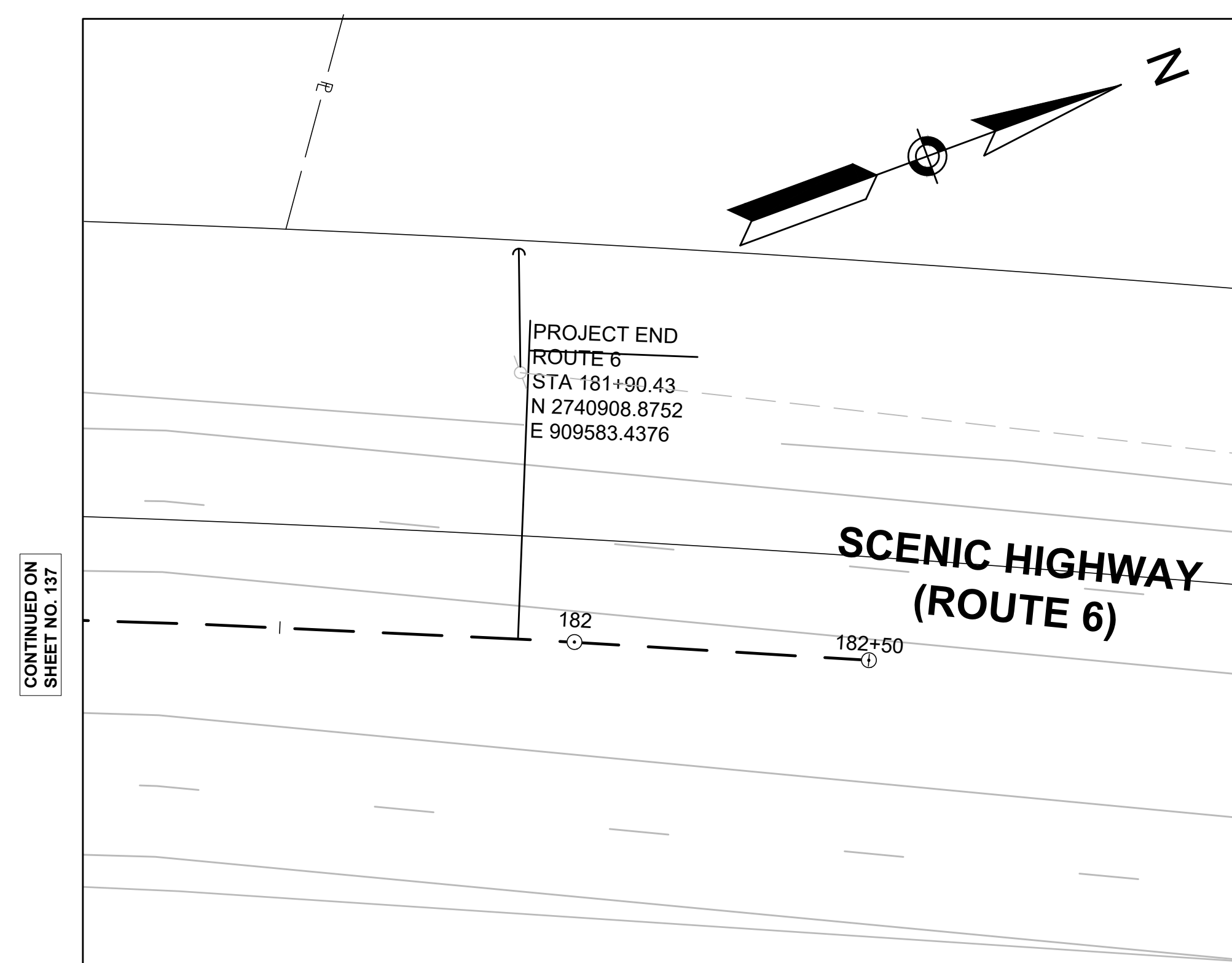
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	138	272
PROJECT FILE NO.		606082	

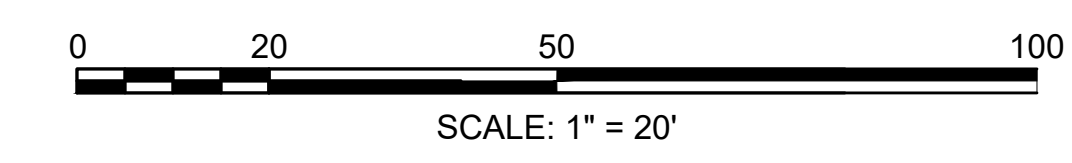
**TRAFFIC SIGN & PAVEMENT MARKING PLAN  
SHEET 15 OF 15**



CONTINUED ON SHEET NO. 137



CONTINUED ON SHEET NO. 137



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	139	272
PROJECT FILE NO.		606082	

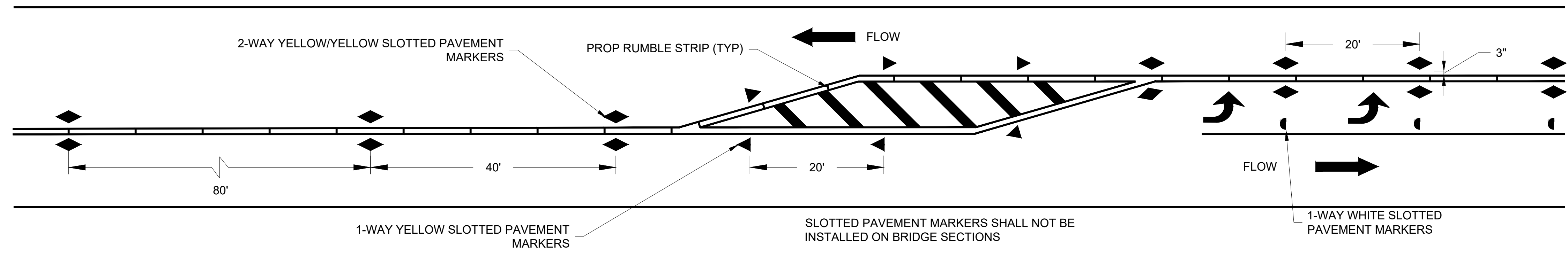
# TRAFFIC SIGN SUMMARY SHEET

**TRAFFIC SIGN SUMMARY**

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET	IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH (IN)	HEIGHT (IN)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER					LETTER HEIGHT	VERTICAL SPACING		ARROW RTE. MKR.	BACK-GROUND	LEGEND		BORDER	WIDTH (IN)	HEIGHT (IN)			
MA-D3-1a	102	12		6"D / 4"D	2.75"/3.25"	--	2	GREEN	WHITE	WHITE	2 P-5: 1	8.50	17.00	M3-2	24	12	EAST	①	①	①	1	WHITE	BLACK	BLACK	MTD W/ M1-5 (6)	2.00	2.00
MA-D10-4 (51)	18	36		②	②	②	1	GREEN	WHITE	WHITE	P-5: 1	4.50	4.50	M3-4	24	12	WEST				1	WHITE	BLACK	BLACK	MTD W/ M1-5 (6)	2.00	2.00
MA-D10-4 (52)	18	36		②	②	②	1	GREEN	WHITE	WHITE	P-5: 1	4.50	4.50	M4-6	12	6	END				1	GREEN	WHITE	WHITE	MTD W/ D11-1a	0.50	0.50
R1-1	30	30		①	①	①	3	RED	WHITE	WHITE	P-5: 3	6.25	18.75	M4-14	12	6	BEGIN				1	GREEN	WHITE	WHITE	MTD W/ D11-1a	0.50	0.50
R2-1(20)	30	36					1	WHITE	BLACK	BLACK	P-5: 1	7.50	7.50	W3-3	48	48					1	YELLOW	BLACK	BLACK	P-5: 1	16.00	16.00
R2-1(35)	30	36					1		BLACK		P-5: 1	7.50	7.50	W3-5 (20)	36	36					1	YELLOW	BLACK/WHITE	BLACK	P-5: 1	9.00	9.00
R2-1(50)	30	36					1		BLACK		P-5: 1	7.50	7.50	W3-5 (35)	36	36					1	YELLOW	BLACK/WHITE	BLACK	P-5: 1	9.00	9.00
R3-2	36	36					3		BLACK/RED		P-5: 3	9.00	27.00	W3-7SP	36	36					1	YELLOW	BLACK	BLACK	MTD ON SIGNAL POST	9.00	9.00
R3-4	36	36					2		BLACK/RED		MTD W/ R3-7L MTD W/ R4-7	9.00	18.00	W7-5	18	18					1	YELLOW	BLACK	BLACK	P-5: 1	2.25	2.25
R3-8a	36	30					2		BLACK		P-5: 2	7.50	15.00	W14-1	36	36	DEAD END				1	YELLOW	BLACK	BLACK	P-5: 1	9.00	9.00
R4-3	24	30					2		BLACK		P-5: 2	5.00	10.00	W16-13P	24	18	WHEN FLASHING				1	YELLOW	BLACK	BLACK	MTD ON SIGNAL POST	3.00	3.00
R4-7	24	30					5		BLACK		P-5: 5	5.00	25.00	D5-1 (0.25)	66	36	REST AREA 1/4 MILE				1	BLUE	WHITE	WHITE	2 P-5: 1	16.50	16.50
R5-1	36	36					4		RED		P-5: 4	9.00	36.00	D5-1 (2)	66	36	REST AREA 2 MILES				1	BLUE	WHITE	WHITE	2 P-5: 1	16.50	16.50
R6-1R	54	18					6	BLACK	WHITE	WHITE	MTD W/ R3-2: 3 P-5: 3	6.75	40.50	D5-5	42	48	REST AREA				1	BLUE	WHITE	WHITE	2 P-5: 1	14.00	14.00
R7-8	12	18					2	WHITE	BLUE/GREEN	GREEN	P-5: 2	1.50	3.00	D11-1a	18	18					4	GREEN	WHITE	WHITE	P-5: 3	2.25	9.00
R10-11b	36	36					1	WHITE	BLACK	BLACK	P-5: 1	9.00	9.00	OM1-1	18	18					1	YELLOW	BLACK	BLACK	P-5: 1	2.25	2.25
R10-12	30	36					1	WHITE	BLACK/GREEN	BLACK	MTD ON SPAN WIRE	7.50	7.50	M6-1L	12	9					1	GREEN	WHITE	WHITE	MTD W/ D11-1a: 1	0.75	0.75
M1-4 (6)	24	24		▼	▼	▼	2	WHITE	BLACK	BLACK	P-5: 2	4.00	8.00	M6-1R	12	9		▼	▼	▼	1	GREEN	WHITE	WHITE	MTD W/ D11-1a: 1	0.75	0.75

① SEE MUTCD 2009 EDITION, 2004 STD. HWY. SIGNS (SHS), 2012 SHS SUPPLEMENT, AND SECTION M9.30.0 TYPE III OF THE MASSDOT STANDARD SPECIFICATION FOR TEXT DIMENSIONS.  
 ② SEE MASSDOT STANDARD SIGN BOOK, CURRENT EDITION FOR TEXT DIMENSIONS.

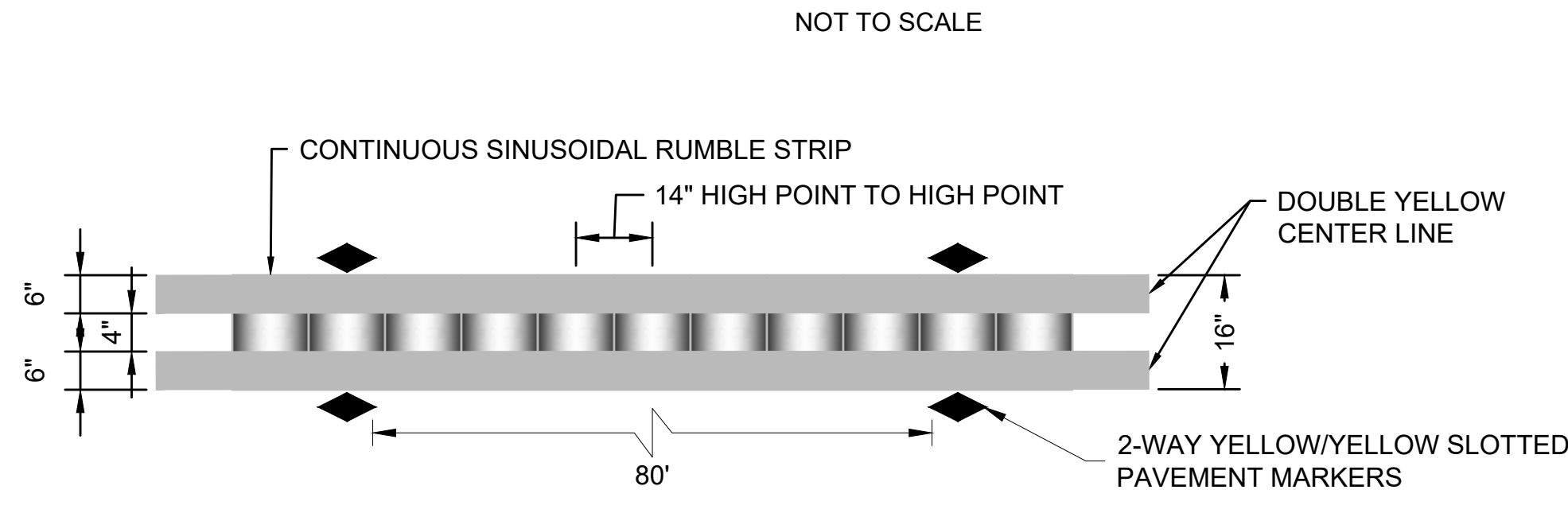




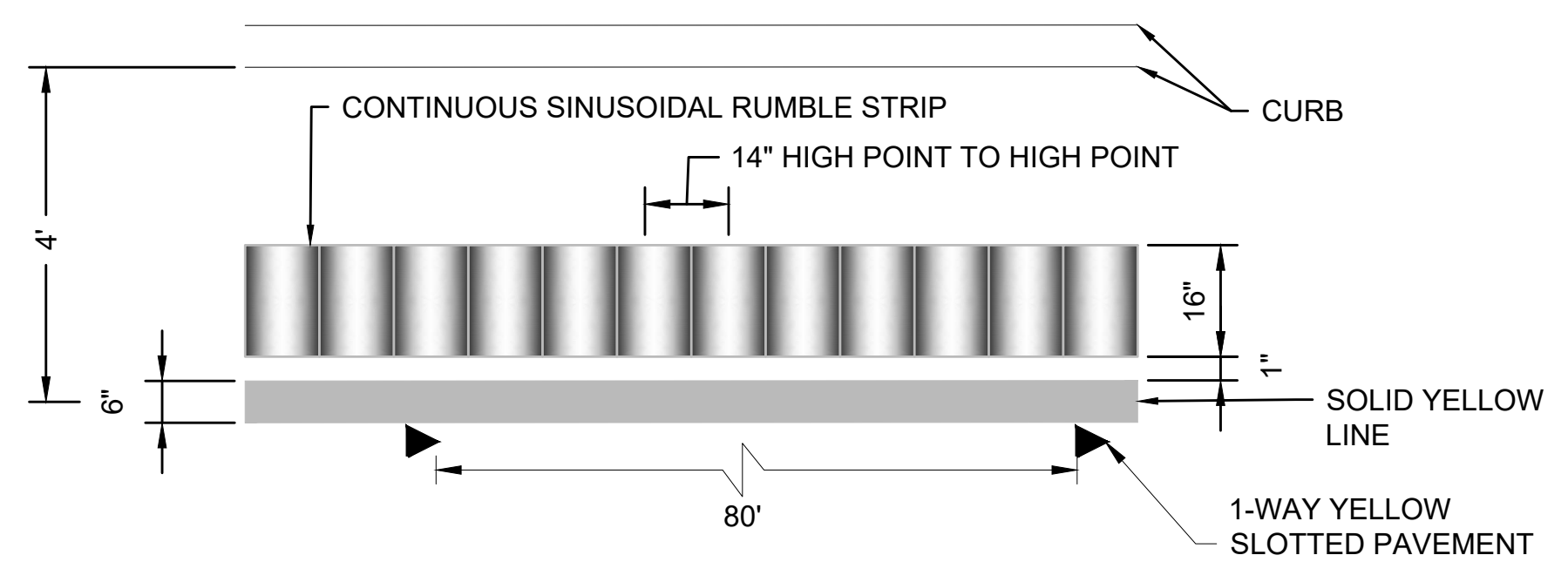
**PAVEMENT MARKING NOTES:**

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO PLACING PAVEMENT MARKINGS OR SYMBOLS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO START OF WORK. WHEN THESE PLANS ARE IN CONFLICT WITH ACTUAL SITE CONDITIONS, PROPOSED PAVEMENT MARKINGS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
2. WHERE PROPOSED PAVEMENT MARKINGS CONFLICT WITH EXISTING PAVEMENT MARKINGS, REMOVE ANY CONFLICTING EXISTING MARKINGS.
3. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
4. PROPOSED PAVEMENT MARKINGS (LEGENDS AND ARROWS) SHALL BE INSTALLED IN ACCORDANCE WITH THE MUTCD AND MASSDOT 1996 STANDARD CONSTRUCTION AND TRAFFIC DETAILS, AS AMENDED. TEXT, ARROWS, AND BIKE LANE SYMBOLS SHALL BE WHITE. SEE DRAWINGS FOR SYMBOL LOCATIONS.

**SLOTTED PAVEMENT MARKERS**



**CONTINUOUS SINUSOIDAL CENTERLINE RUMBLE STRIP "TYPE C" DETAIL**  
NOT TO SCALE

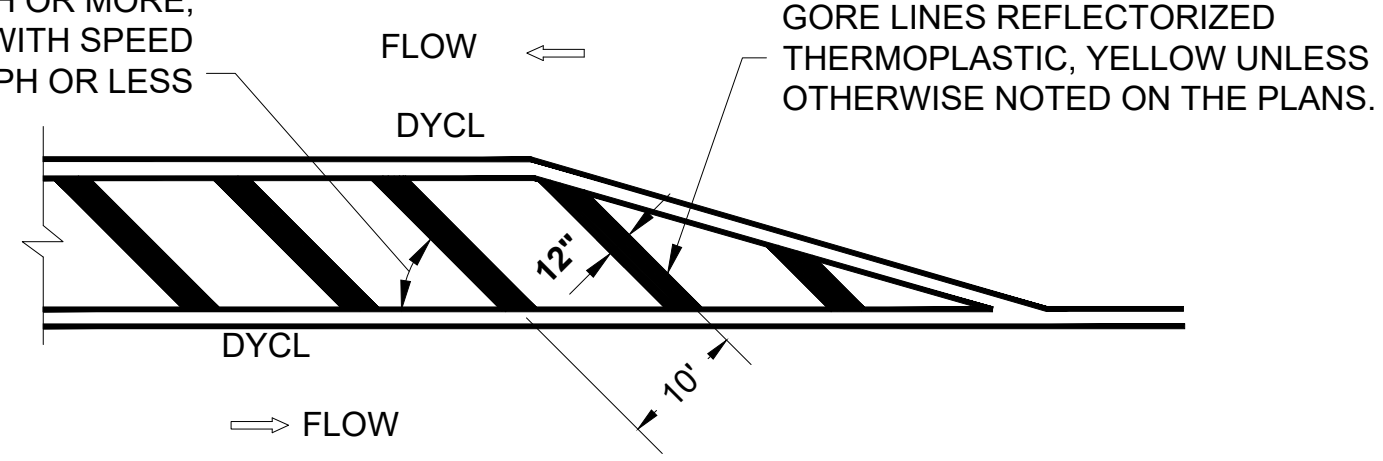


**CONTINUOUS SINUSOIDAL CENTER MEDIAN RUMBLE STRIP "TYPE C" DETAIL**  
NOT TO SCALE

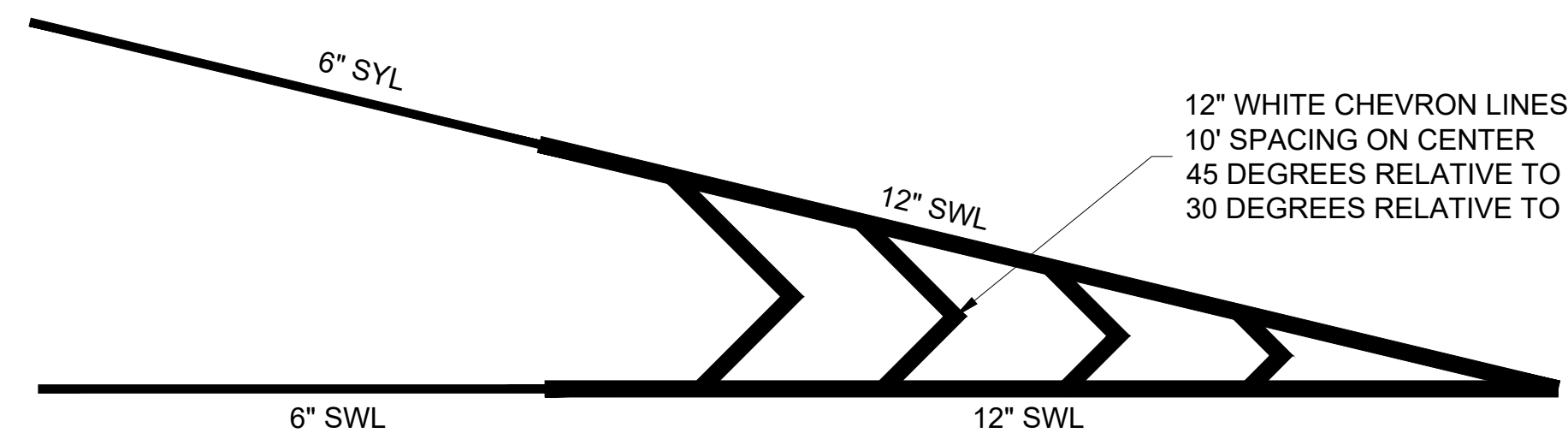
**CENTERLINE RUMBLE STRIP NOTES:**

1. CENTERLINE RUMBLE STRIPS SHALL BE INSTALLED ON ROUTE 6 CENTERLINE AS SHOWN ON THE PLANS.
2. RUMBLE STRIPS SHALL NOT BE INSTALLED ON BRIDGES OR WITHIN 20 FEET OF BRIDGE JOINTS.
3. HIGH POINT OF RUMBLE STRIPS SHALL BE 1/16 IN. BELOW PAVEMENT SURFACE.
4. LOW POINT OF RUMBLE STRIPS SHALL BE 3/8 IN. BELOW PAVEMENT SURFACE.
5. REFER TO MASSDOT ENGINEERING DIRECTIVE E-20-007 FOR ADDITIONAL GUIDANCE REGARDING CONSTRUCTION OF RUMBLE STRIPS.

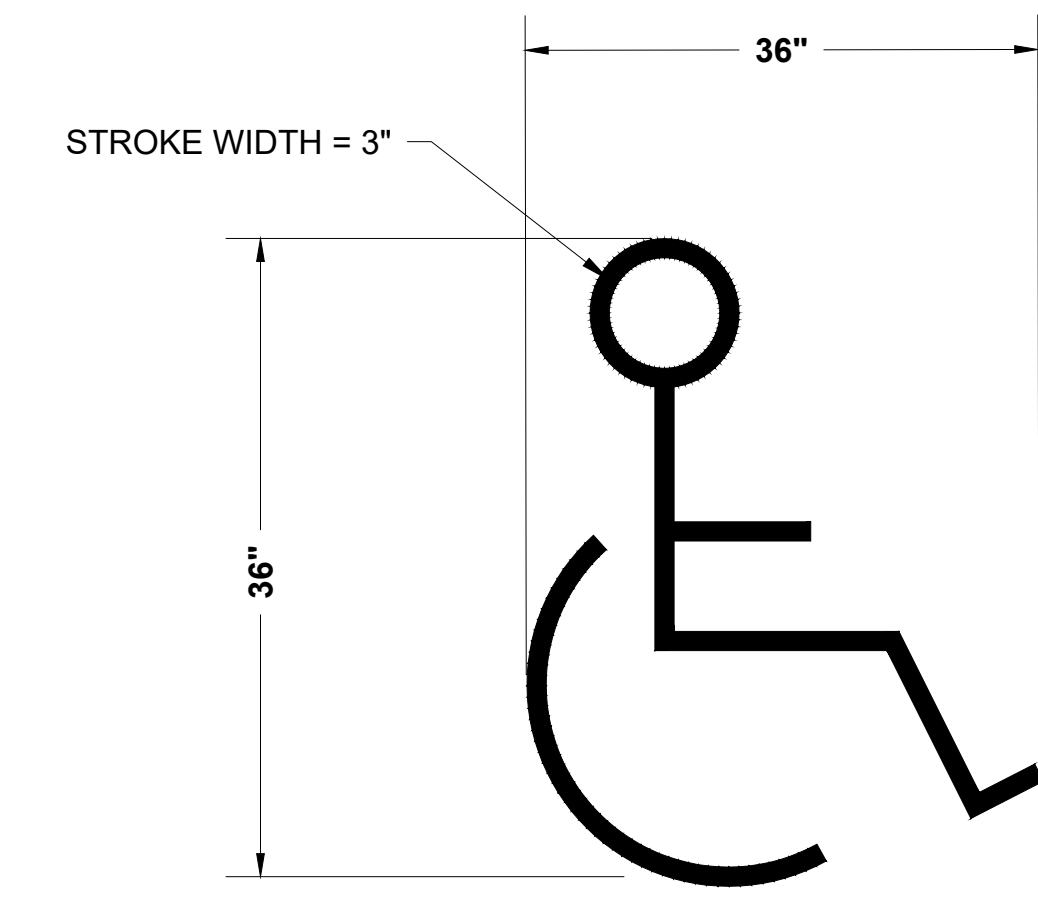
30° ON ROADWAY WITH SPEED LIMIT OF 45 MPH OR MORE;  
45° ON ROADWAY WITH SPEED LIMIT OF 40 MPH OR LESS



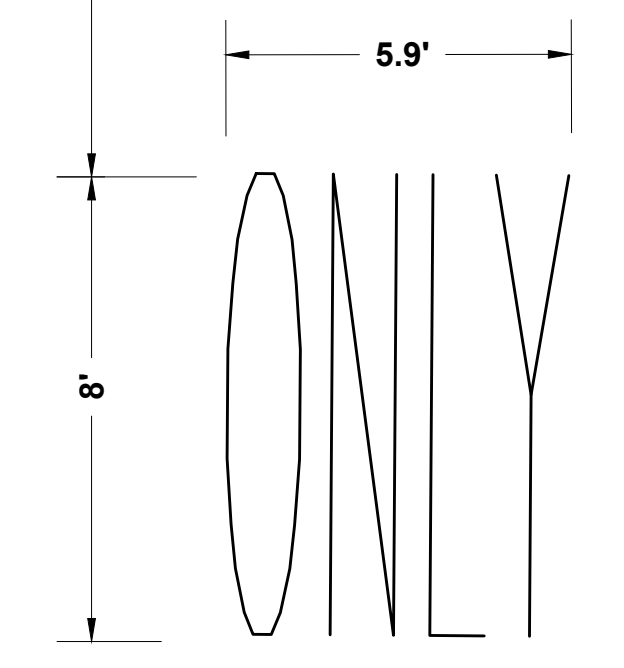
**STANDARD CROSS-HATCHING**  
NOT TO SCALE



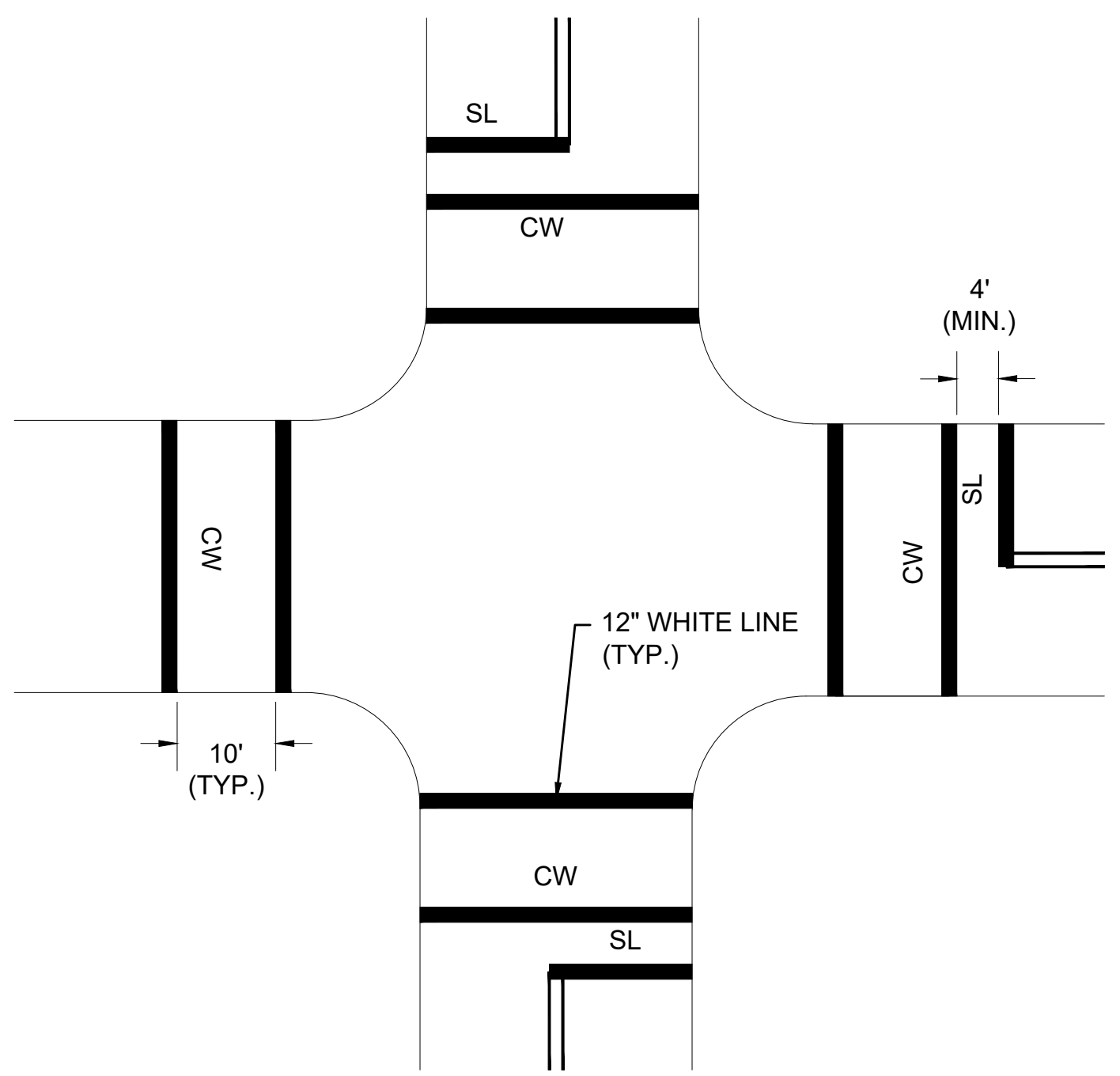
**STANDARD GORE DETAIL**  
NOT TO SCALE



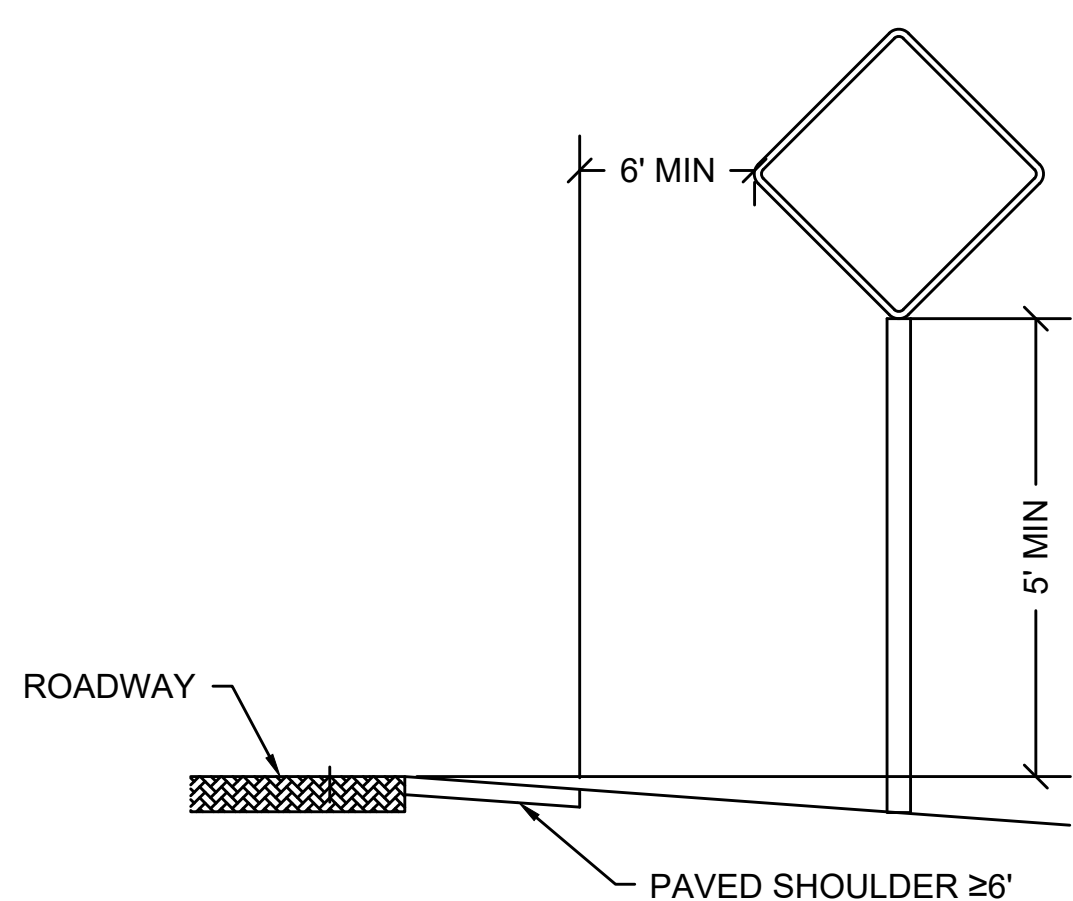
**HANDICAP MARKING SYMBOL DETAIL**  
NOT TO SCALE



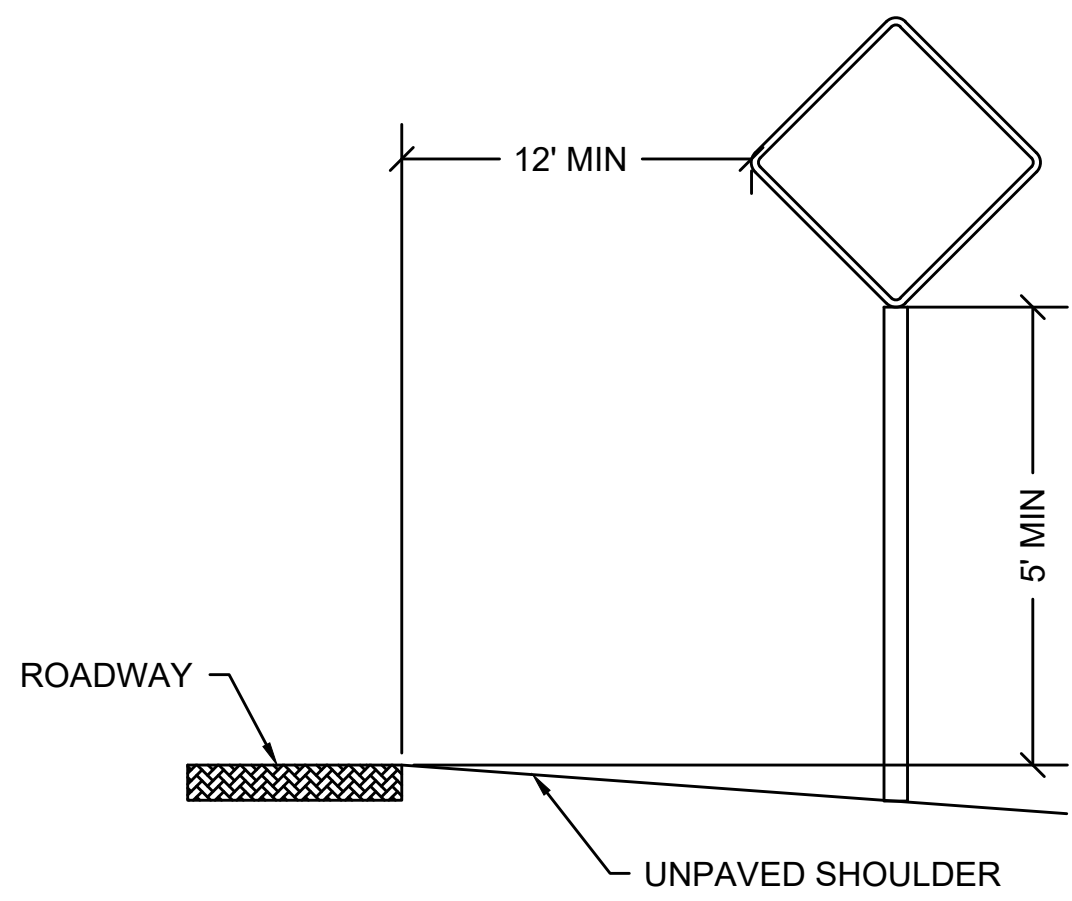
**TURN LANE DESIGNATION MARKING DETAIL**  
NOT TO SCALE



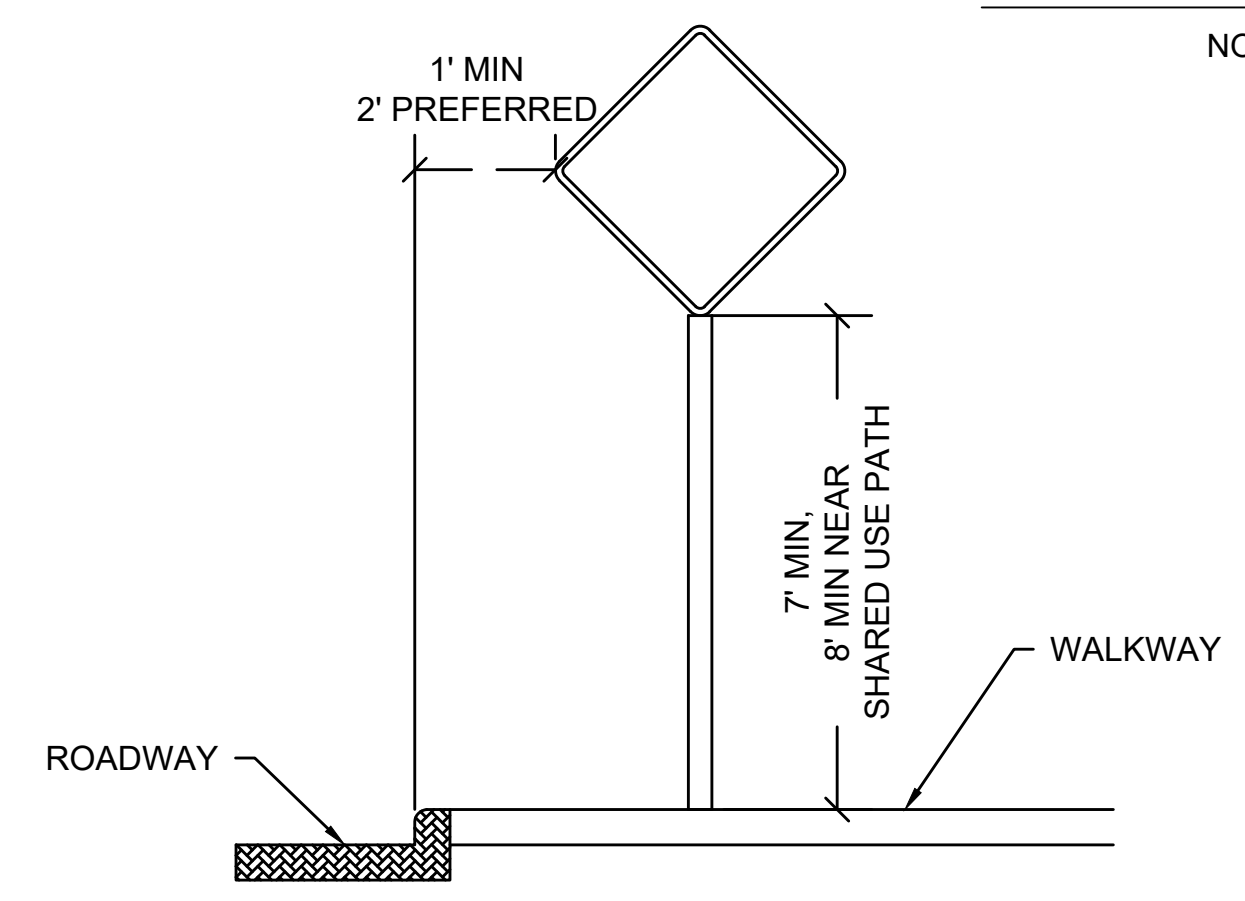
**CROSSWALK AND STOP BAR MARKINGS**  
NOT TO SCALE



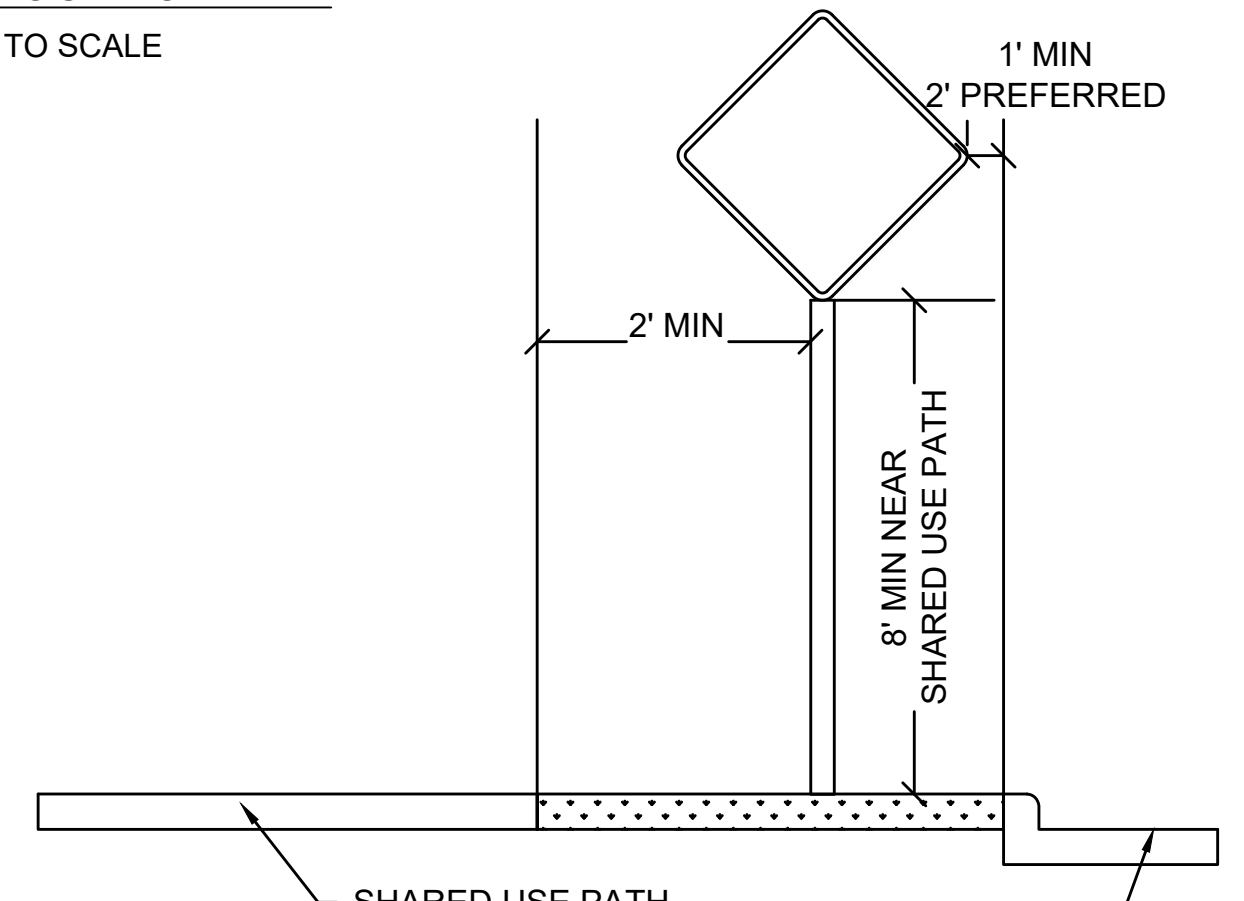
**SIGN MOUNTING DETAIL - RURAL (NO CURB)**  
NOT TO SCALE



**SIGN MOUNTING DETAIL - URBAN (WITH CURB)**  
NOT TO SCALE



**SIGN MOUNTING DETAIL - SHARED USE PATH**  
NOT TO SCALE



TRAFFIC SIGNS & PAVEMENT MARKINGS

SEE SHEET 124

TRAFFIC SIGNAL DATA

SEE SHEET 142

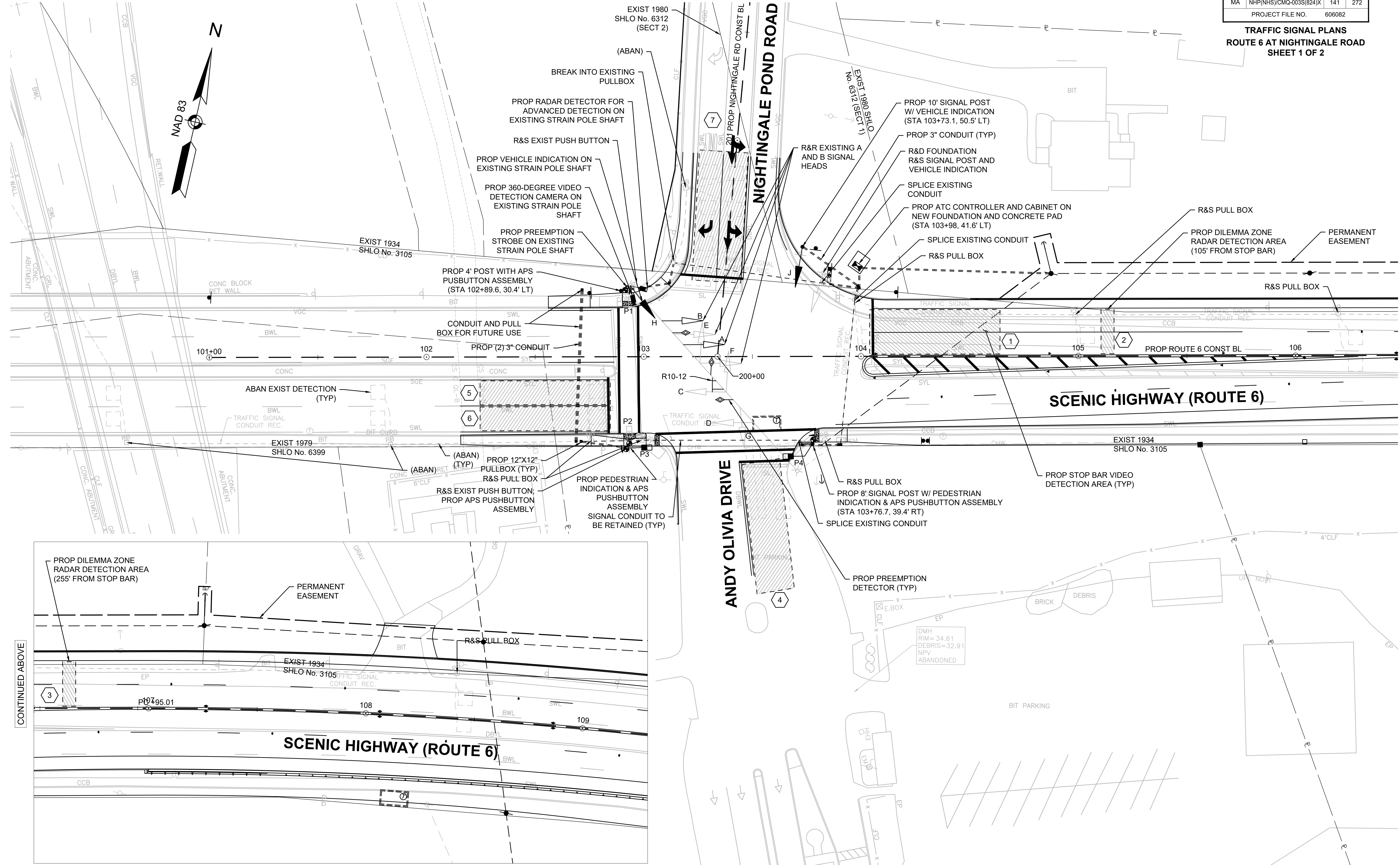
UTILITY PLANS

SEE SHEET 92

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	141	272
PROJECT FILE NO. 606082			

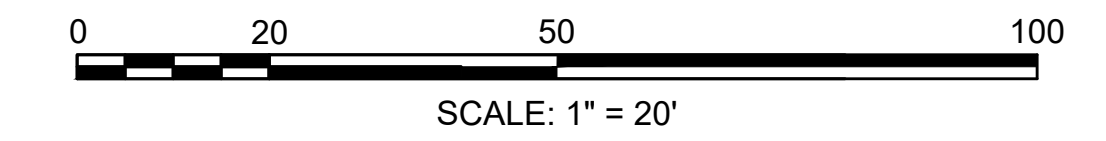
**TRAFFIC SIGNAL PLANS  
ROUTE 6 AT NIGHTINGALE ROAD  
SHEET 1 OF 2**



CONTINUED ABOVE

CONTINUED BELOW

NOTE:  
RETAIN EXIST SIGNAL EQUIPMENT UNLESS OTHERWISE NOTED.

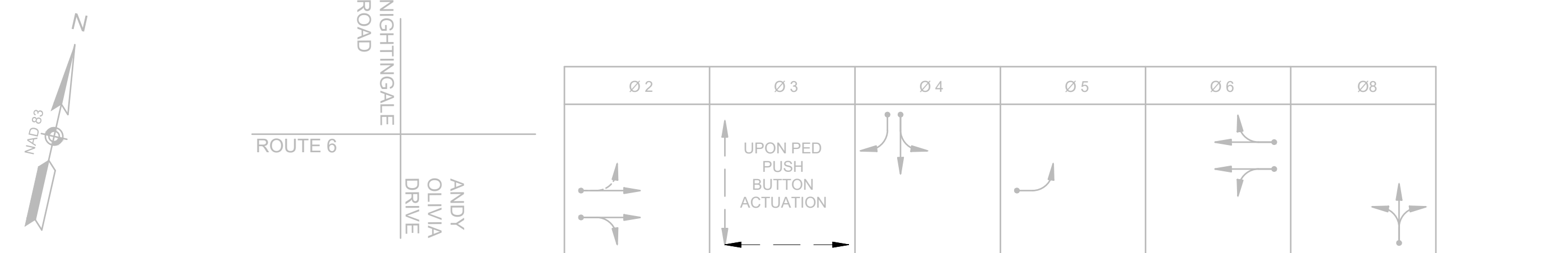




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	142	272
PROJECT FILE NO.		606082	

**TRAFFIC SIGNAL PLANS  
ROUTE 6 AT NIGHTINGALE ROAD  
SHEET 2 OF 2**



SEQUENCE AND TIMING FOR FULLY ACTUATED CONTROL (ISOLATED)																					
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	FLASH OPER.
SCENIC HIGHWAY	WB	A, B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
SCENIC HIGHWAY	EBL	C	G	Y	R	R	R	R	R	R	R	G/GL	Y/YL	R	R	R	R	R	R	R	FY
SCENIC HIGHWAY	EB	D	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
NIGHTINGALE ROAD	SB	E, F	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	FR
ANDY OLIVIA DRIVE	NB	G, H, J	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	FR
PEDESTRIAN	NB-SB	P1-P2	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIAN	EB-WB	P3-P4	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT

TIMING IN SECONDS																					
MINIMUM GREEN (INITIAL)			35									8							10		EMERGENCY
PASSAGE TIME (VEHICLE)			2									2							2		
MAXIMUM 1 (FREE)			77									15							15		
MAXIMUM 2 (WEEKDAYS 3PM TO 7PM)			87									15							14		
YELLOW CLEARANCE				5.0									3.0						5.0		
RED CLEARANCE					2.0								2.5						2.0		
WALK (W)							7														
PEDESTRIAN CLEARANCE								17	4												
RECALL			MIN				OFF					OFF						MIN		OFF	
MEMORY			NON-LOCKING				LOCKING					NON-LOCKING						NON-LOCKING		NON-LOCKING	

NOTE:  
1. PEDESTRIAN PHASE SHALL BE ACTIVATED BY PUSH BUTTON ONLY

**EMERGENCY SCHEDULE**

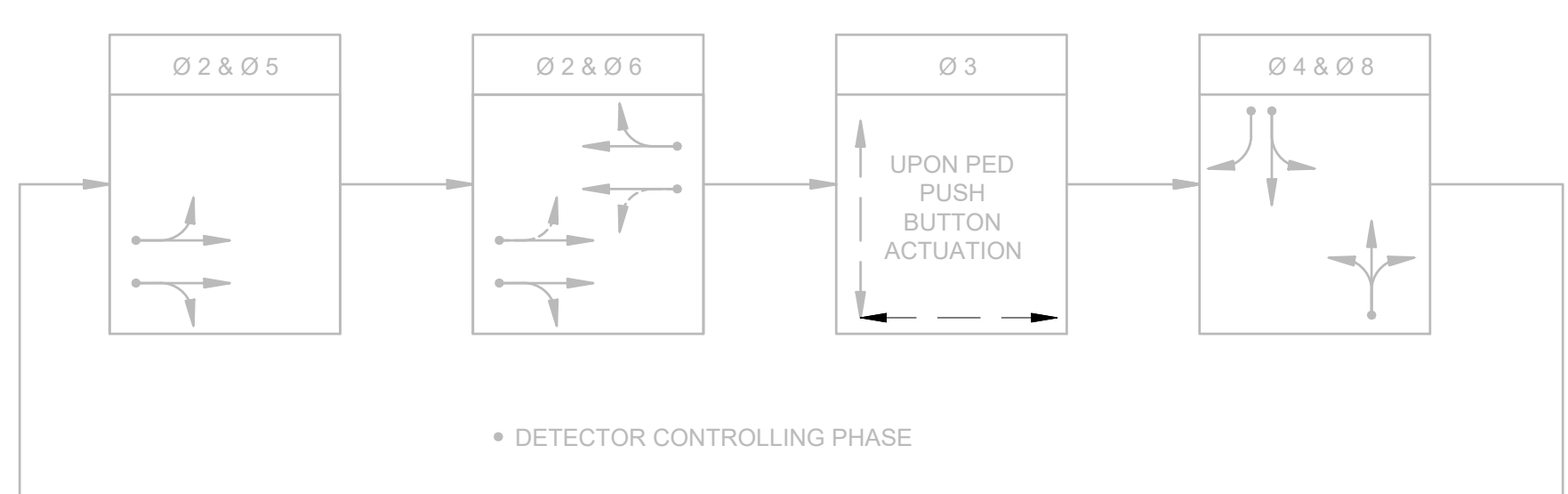
APPROACH	PREEMPTION PHASE	NEXT PHASE
EASTBOUND	2+5	2+6
WESTBOUND	6	4+8
SOUTHBOUND	4	2+5

- EMERGENCY VEHICLE PREEMPTION OPERATION:**
- EMERGENCY VEHICLE PREEMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
  - PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
  - IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAN TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
  - PREEMPTION MINIMUM GREENS SHALL BE TEN SECONDS.
  - NORMAL CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TERMINATED BY PREEMPTION DEMAND.
  - ACTUAL TIMING FOR PREEMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY MASSDOT PRIOR TO OPERATION.
  - CONFIRMATION STROBE IS ONLY "ON" WHENEVER THE PRE-EMPTED PHASE IS IN "GREEN" INDICATION.

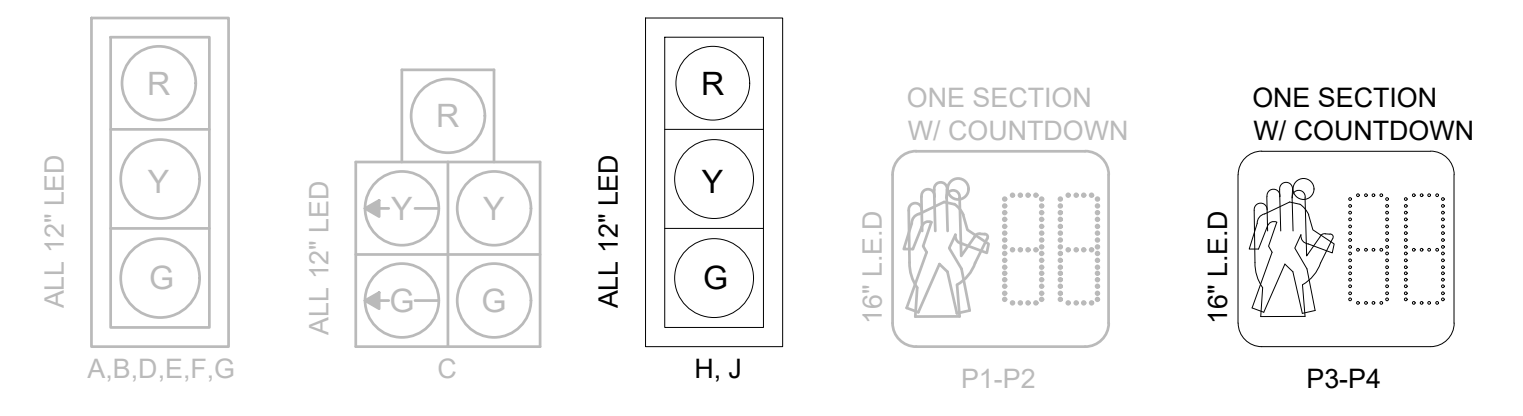
MAJOR ITEMS REQUIRED			
PAY ITEM	QUANTITY	ITEM	
816.01	1	ATC SIGNAL CONTROLLER, ATC CAB (120 VAC) & FDN.	
	2	PEDESTRIAN SIGNAL HOUSING WITH COUNTDOWN TIMER (16" L.E.D.)	
	4	AUDIO & VIBRO TACTILE PEDESTRIAN PUSH BUTTON (APS)	
	1	DETECTION SYSTEM WITH CAMERA(S), RADAR AND PROCESSORS CAPABLE OF STOP LINE PRESENCE DETECTION, HIGH SPEED DILEMMA ZONE DETECTION, AND QUEUE DETECTION AS SHOWN ON THE PLANS	
	1	ETHERNET TO WIRELESS CONVERTER	
	1	FIELD MONITORING UNIT	
	1	HIGH GAIN DIRECTIONAL CELLULAR ANTENNA	
	3	UNIDIRECTIONAL SINGLE CHANNEL PREEMPTION DETECTOR	
	2	PREEMPTION 2-CHANNEL PHASE SELECTOR	
	1	4' SIGNAL POST, BASE, & FDN.	
	1	8' PEDESTRIAN PEDESTAL, BASE & FDN	
	2	SIGNAL HEAD, 3 SECTION (12" LED)	
	2	SIGNAL HEAD R&R	
	811.31	5	PULLBOX 12 X 12 INCHES - SD2.031
	811.22	2	ELECTRIC HANDHOLE - SD2.022

PLUS ALL WIRE, CABLE, CONDUIT, MOUNTING HARDWARE, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

**PREFERENTIAL PHASING SEQUENCE**



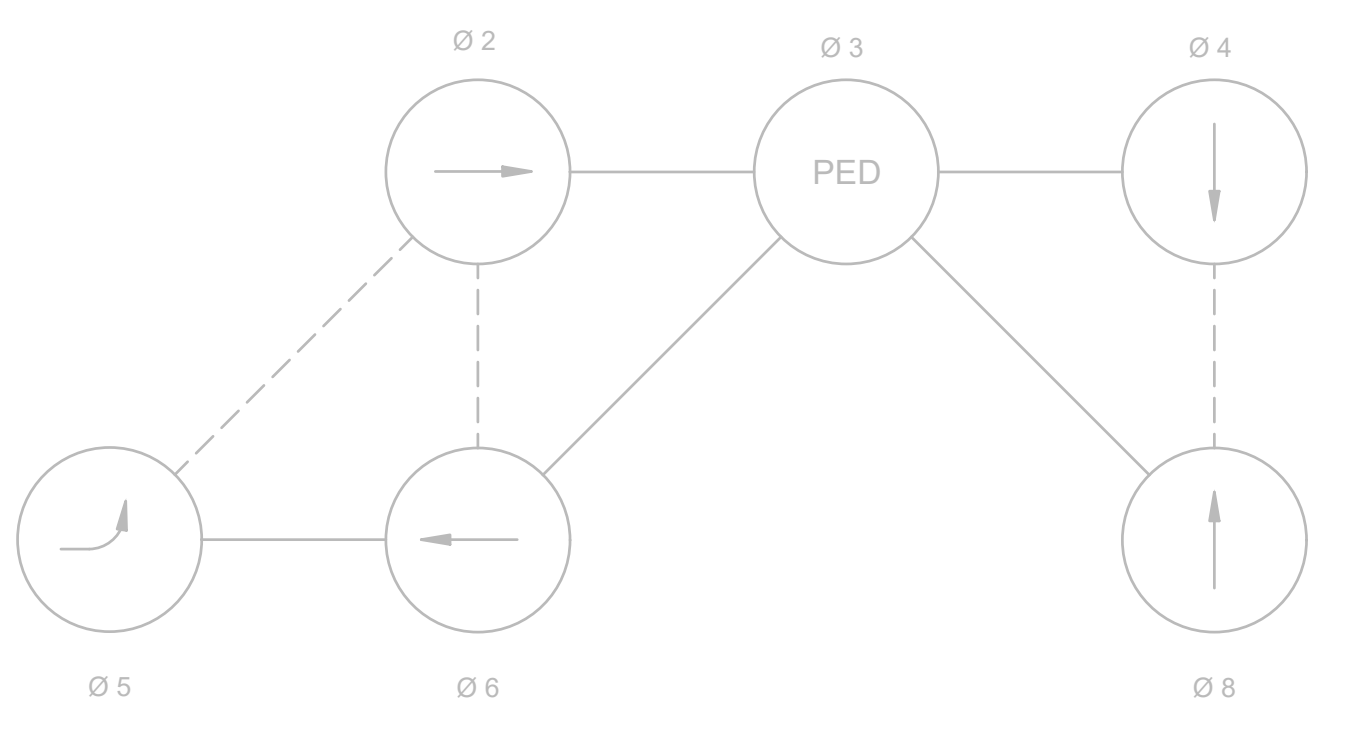
**SIGNAL IDENTIFICATION**



**DETECTOR DATA**

DETECTOR NUMBER	DETECTOR	Ø CALLED	Ø EXT.	MODE A=PULSE B=PRES.	DELAY TIME	EXT. TIME
1	PROP VIDEO	Ø6	Ø6	B	-	-
2	PROP RADAR	Ø6	Ø6	A	-	3
3	PROP RADAR	Ø6	Ø6	A	-	3
4	PROP VIDEO	Ø8	Ø8	B	-	-
5	PROP VIDEO	Ø5	Ø2 + Ø5	B	-	-
6	PROP VIDEO	Ø2	Ø2	B	-	-
7	PROP VIDEO	Ø4	Ø4	B	-	-

**NEMA DUAL RING PHASING:**



- NEMA DUAL RING PHASING NOTES:**
- PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
  - PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
  - THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
  - IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

TRAFFIC SIGNS & PAVEMENT MARKINGS

SEE SHEET 137

TRAFFIC SIGNAL DATA

SEE SHEET 144

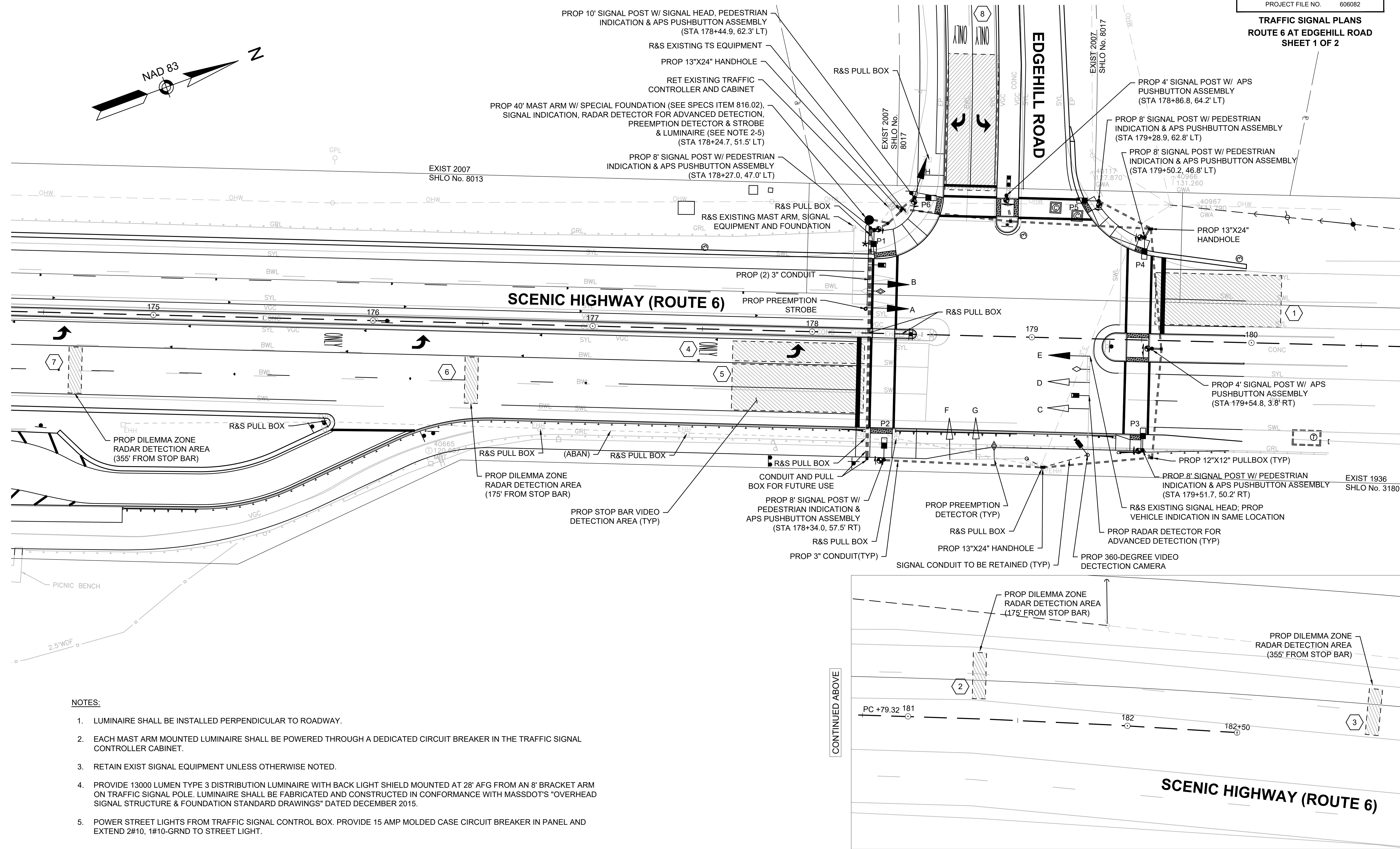
UTILITY PLANS

SEE SHEET 105

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	143	272
PROJECT FILE NO.			606082

**TRAFFIC SIGNAL PLANS  
ROUTE 6 AT EDGEHILL ROAD  
SHEET 1 OF 2**



**NOTES:**

1. LUMINAIRE SHALL BE INSTALLED PERPENDICULAR TO ROADWAY.
2. EACH MAST ARM MOUNTED LUMINAIRE SHALL BE POWERED THROUGH A DEDICATED CIRCUIT BREAKER IN THE TRAFFIC SIGNAL CONTROLLER CABINET.
3. RETAIN EXIST SIGNAL EQUIPMENT UNLESS OTHERWISE NOTED.
4. PROVIDE 13000 LUMEN TYPE 3 DISTRIBUTION LUMINAIRE WITH BACK LIGHT SHIELD MOUNTED AT 28' AFG FROM AN 8' BRACKET ARM ON TRAFFIC SIGNAL POLE. LUMINAIRE SHALL BE FABRICATED AND CONSTRUCTED IN CONFORMANCE WITH MASSDOT'S "OVERHEAD SIGNAL STRUCTURE & FOUNDATION STANDARD DRAWINGS" DATED DECEMBER 2015.
5. POWER STREET LIGHTS FROM TRAFFIC SIGNAL CONTROL BOX. PROVIDE 15 AMP MOLDED CASE CIRCUIT BREAKER IN PANEL AND EXTEND 2#10, 1#10-GRND TO STREET LIGHT.

CONTINUED ABOVE

CONTINUED BELOW

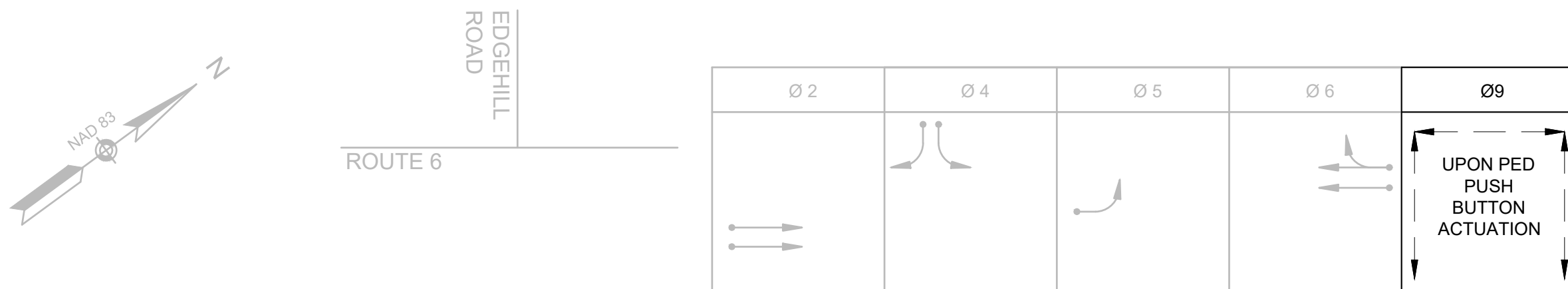




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	144	272
PROJECT FILE NO.		606082	

**TRAFFIC SIGNAL PLANS  
ROUTE 6 AT EDGEHILL ROAD  
SHEET 2 OF 2**



SEQUENCE AND TIMING FOR FULLY ACTUATED CONTROL (ISOLATED)																		
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	FLASH OPER.
SCENIC HIGHWAY	WB	A, B	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	FY
SCENIC HIGHWAY	EB	C, D	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
SCENIC HIGHWAY	EBL	E	RL	RL	RL	RL	RL	RL	GL	YL	RL	RL	RL	RL	RL	RL	FR	
EDGEHILL ROAD	SB	F, G, H	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	FR	
<b>PEDESTRIAN</b>	<b>ALL</b>	<b>P1-P6</b>	<b>DW</b>	<b>DW</b>	<b>DW</b>	<b>DW</b>	<b>DW</b>	<b>DW</b>	<b>DW</b>	<b>DW</b>	<b>DW</b>	<b>DW</b>	<b>DW</b>	<b>DW</b>	<b>W</b>	<b>FDW</b>	<b>DW</b>	<b>OUT</b>
TIMING IN SECONDS																		
MINIMUM GREEN (INITIAL)			15														15	
PASSAGE TIME (VEHICLE)			2			2								2				
MAXIMUM 1			81			19								62				
MAXIMUM 2			-			-								-				
YELLOW CLEARANCE				5.5			3.0				4.0				5.5			
RED CLEARANCE					1.0			3.0				3.5				1.0		
WALK (W)																7		
PEDESTRIAN CLEARANCE																21	4	
RECALL					MIN			OFF			OFF			MIN			OFF	
MEMORY					NON-LOCKING			NON-LOCKING			NON-LOCKING			NON-LOCKING			NON-LOCKING	

**NOTE:**  
1. PEDESTRIAN PHASE SHALL BE ACTIVATED BY PUSH BUTTON ONLY

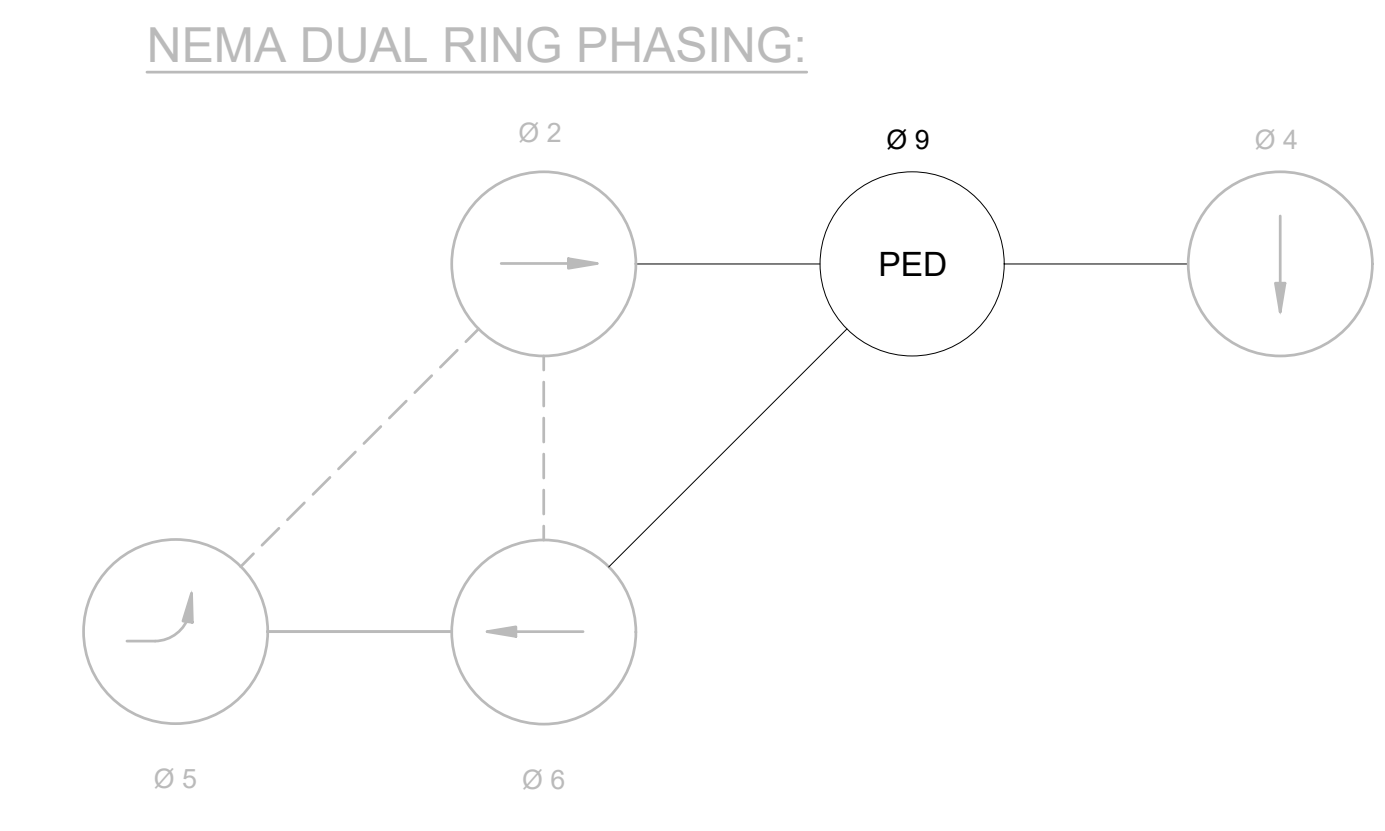
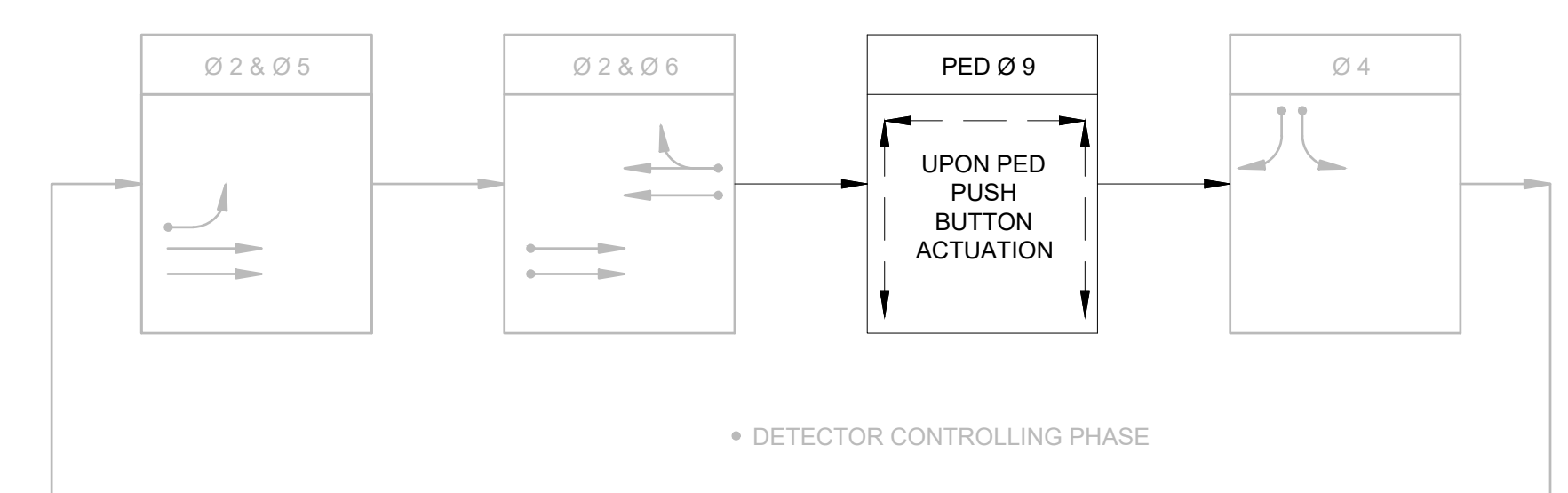
APPROACH	PREEMPTION PHASE	NEXT PHASE
EASTBOUND	2+5	2+6
WESTBOUND	6	2+6
SOUTHBOUND	4	2+6

- EMERGENCY VEHICLE PREEMPTION OPERATION:**
- EMERGENCY VEHICLE PREEMPTION SHALL BE ACTIVATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
  - PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
  - IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAN TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
  - PREEMPTION MINIMUM GREENS SHALL BE TEN SECONDS.
  - NORMAL CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TERMINATED BY PREEMPTION DEMAND.
  - ACTUAL TIMING FOR PREEMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY MASSDOT PRIOR TO OPERATION.
  - CONFIRMATION STROBE IS ONLY "ON" WHENEVER THE PRE-EMPTED PHASE IS IN "GREEN" INDICATION.

PAY ITEM	QUANTITY	MAJOR ITEMS REQUIRED		
		ITEM		
816.02	1	CONTROLLER AND CABINET MODIFICATIONS		
	6	PEDESTRIAN SIGNAL HOUSING WITH COUNTDOWN TIMER (16" L.E.D.)		
	8	AUDIO & VIBRO TACTILE PEDESTRIAN PUSH BUTTON (APS)		
	1	DETECTION SYSTEM WITH CAMERA(S), RADAR AND PROCESSORS CAPABLE OF STOP LINE PRESENCE DETECTION AND HIGH SPEED DILEMMA ZONE DETECTION AS SHOWN ON THE PLANS		
	2	UNIDIRECTIONAL SINGLE CHANNEL PREEMPTION DETECTOR		
	1	PREEMPTION 2-CHANNEL PHASE SELECTOR		
	1	PREEMPTION CONFIRMATION STROBE (WHITE)		
	1	40' MAST ARM, BASE & FDN		
	2	4' SIGNAL POST, BASE & FDN		
	5	8' SIGNAL POST, BASE & FDN		
	1	10' SIGNAL POST, BASE & FDN		
	4	SIGNAL HEAD, 3 SECTION (12" LED)		
	1	LUMINAIRE ON SEPARATE 8FT BRACKET ARM		
	811.22	3	ELECTRIC HANDHOLE - SD2.022 (13" X 24")	
	811.31	5	PULLBOX 12 X 12 INCHES - SD2.031	

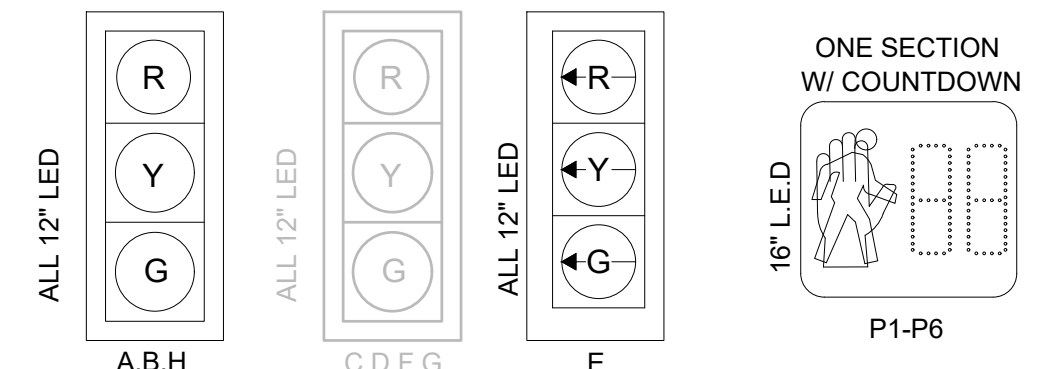
PLUS ALL WIRE, CABLE, CONDUIT, MOUNTING HARDWARE, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

**PREFERENTIAL PHASING SEQUENCE**



- NEMA DUAL RING PHASING NOTES:**
- PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
  - PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
  - THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
  - IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

**SIGNAL IDENTIFICATION**



**DETECTOR DATA**

DETECTOR NUMBER	DETECTOR	Ø CALLED	Ø EXT.	MODE A=PULSE B=PRES.	DELAY TIME	EXT. TIME
1	PROP VIDEO	Ø6	Ø6	B	-	-
2	PROP RADAR	Ø6	Ø6	A	-	3
3	PROP RADAR	Ø6	Ø6	A	-	3
4	PROP VIDEO	Ø5	Ø5	B	-	-
5	PROP VIDEO	Ø2	Ø2	B	-	-
6	PROP RADAR	Ø2	Ø2	A	-	3
7	PROP RADAR	Ø2	Ø2	A	-	3
8	PROP VIDEO	Ø4	Ø4	B	-	-



SUGGESTED WORK ZONE WARNING SIGN SPACING

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

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

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

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

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

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

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

Based on: Table 6C-1 MUTCD LATEST EDITION

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

**EXPRESSWAY-** A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

**FREEWAY-** A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

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

Source: MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

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

Source: Table 6C-3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

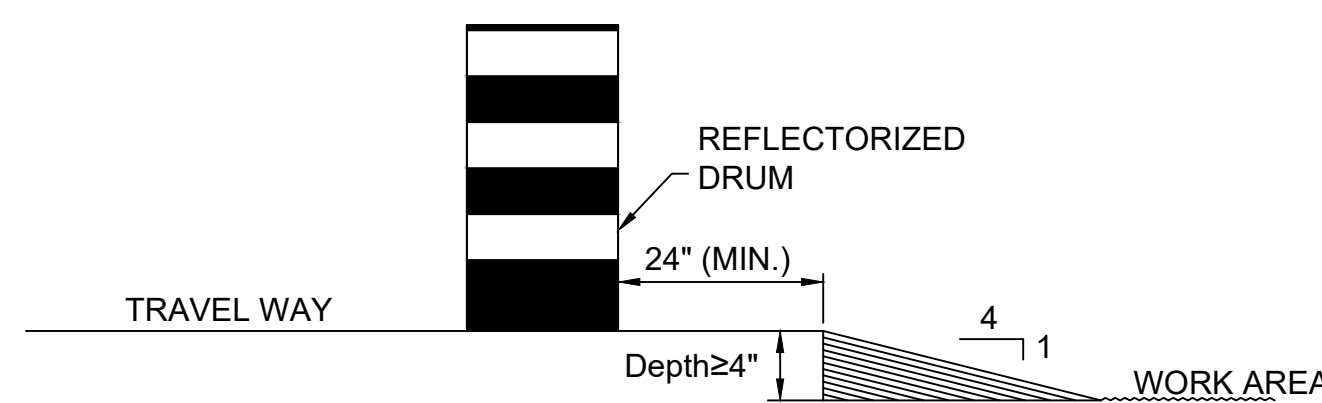
SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS}{60}$
45 MPH OR MORE	$L = WS$

WHERE: L = TAPER LENGTH IN FEET

W = WIDTH OF OFFSET IN FEET

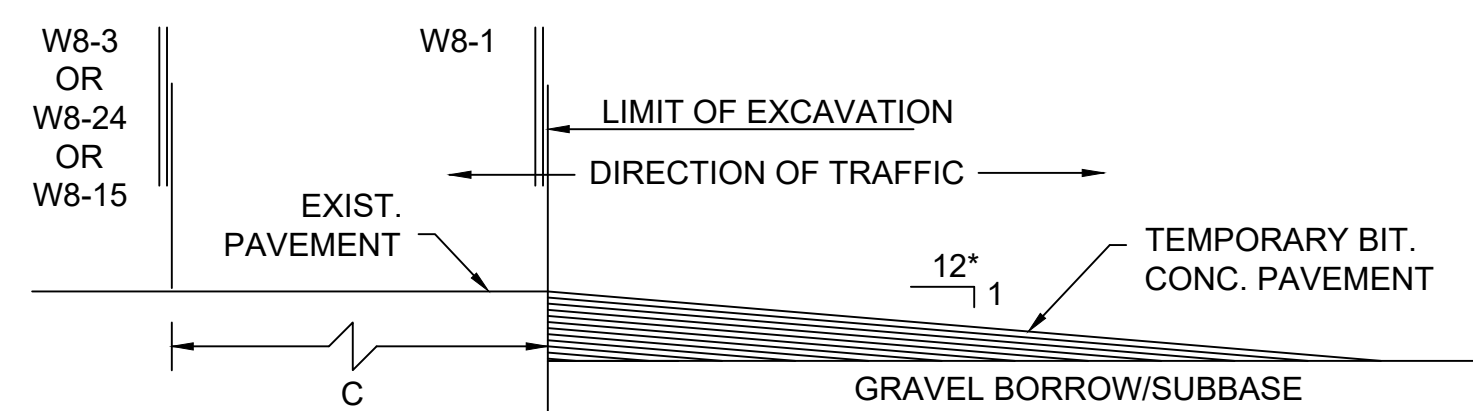
S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

Source: Table 6C-4 MUTCD LATEST EDITION



LATERAL DROP-OFF DETAIL

NOT TO SCALE

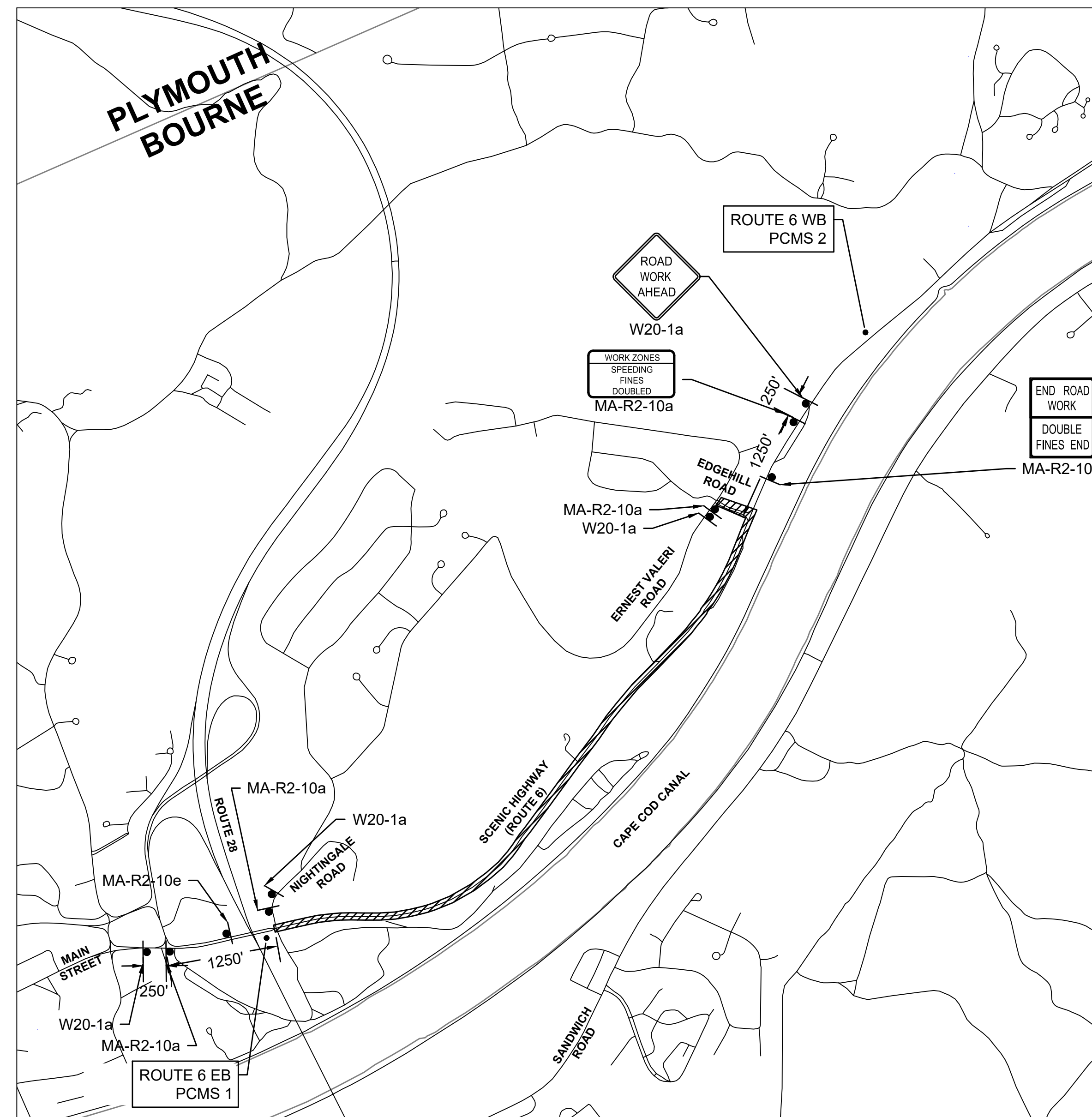


LONGITUDINAL DROP-OFF DETAIL

NOT TO SCALE

\* - INCREASE SLOPE RATIO FOR HIGHER SPEEDS (50:1)

ADVANCED WARNING SIGN LOCATIONS



BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	145	272

PROJECT FILE NO. 606082

TEMPORARY TRAFFIC CONTROL PLANS  
NOTES & LEGENDS

NOTES:

- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
- THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
- THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 10 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

LEGEND:

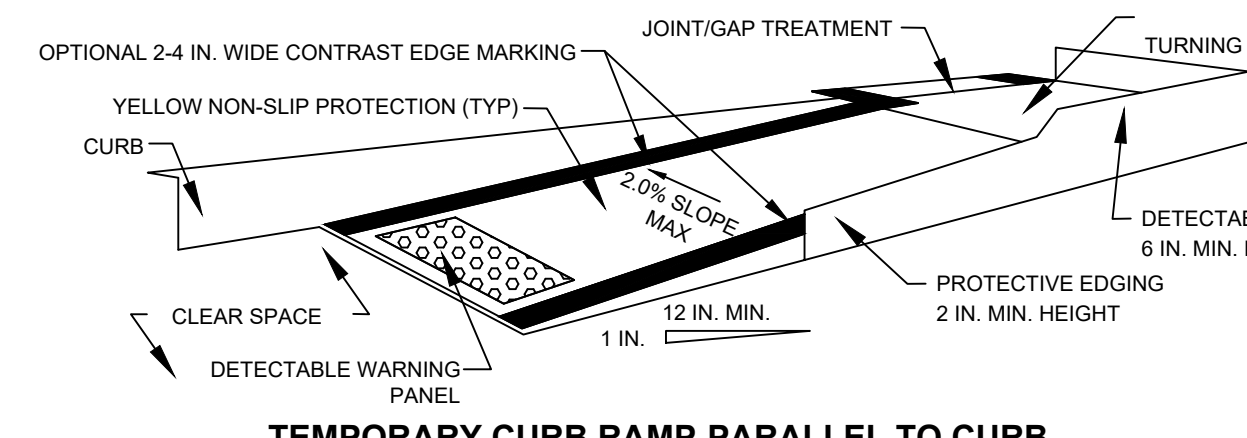
- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- ▨ WORK ZONE
- ▭ WORK VEHICLE
- ➔ DIRECTION OF TRAFFIC
- ➔ TRUCK MOUNTED ATTENUATOR
- P/F POLICE/FLAGGER DETAIL
- ⊙ IMPACT ATTENUATOR
- ⊙ TRAFFIC OR PEDESTRIAN SIGNAL
- ▨ TYPE III BARRICADE
- ▭ MEDIAN BARRIER
- ▭ CHANGEABLE MESSAGE SIGN
- ▭ MEDIAN BARRIER WITH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

PCMS MESSAGE SCHEDULE

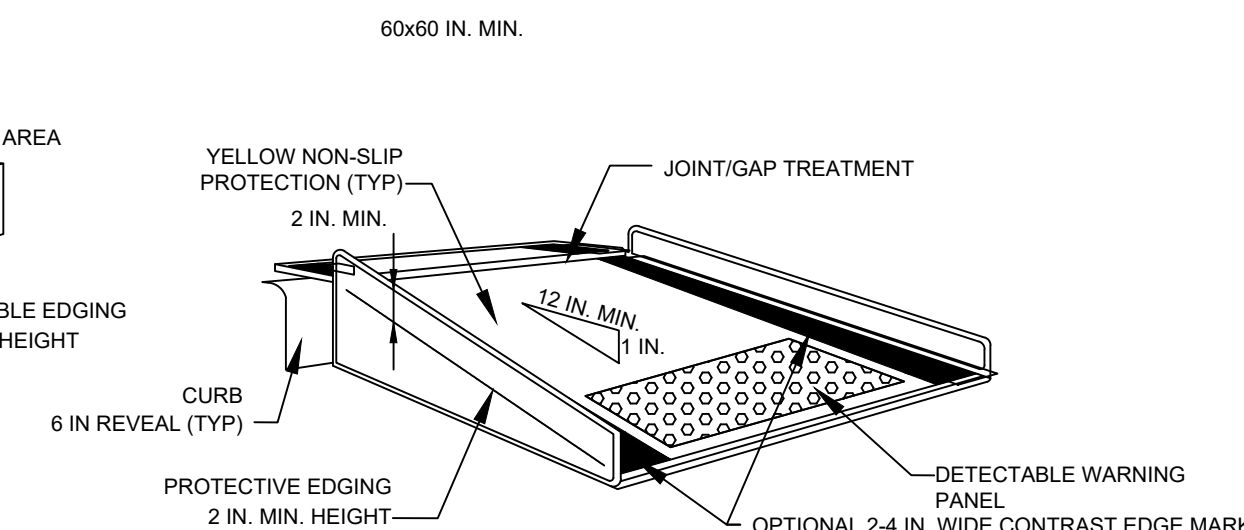
PCMS UNIT	14 DAYS PRIOR TO CONSTRUCTION		14 DAYS DURING CONSTRUCTION		14 DAYS PRIOR TO START OF NEW CONSTRUCTION STAGE		14 DAYS DURING NEW CONSTRUCTION STAGE	
	PHASE 1	PHASE 2	PHASE 1	PHASE 2	PHASE 1	PHASE 2	PHASE 1	PHASE 2
PCMS 1 & 2	ROUTE 6 ROAD WORK	STARTS XX/XX/XX	ROUTE 6 CONST AHEAD	USE CAUTION	NEW TRAFFIC PATTERN	STARTS XX/XX/XX	NEW TRAFFIC PATTERN	USE CAUTION

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 SLOPE 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.
- PROTECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR BUTTING UP TO THE EXISTING SIDEWALK.
- 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.
- 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.
- IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PAD MUST BE ADHERED TO THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A PAD SHALL NOT BE INSTALLED ON THE RAMP.

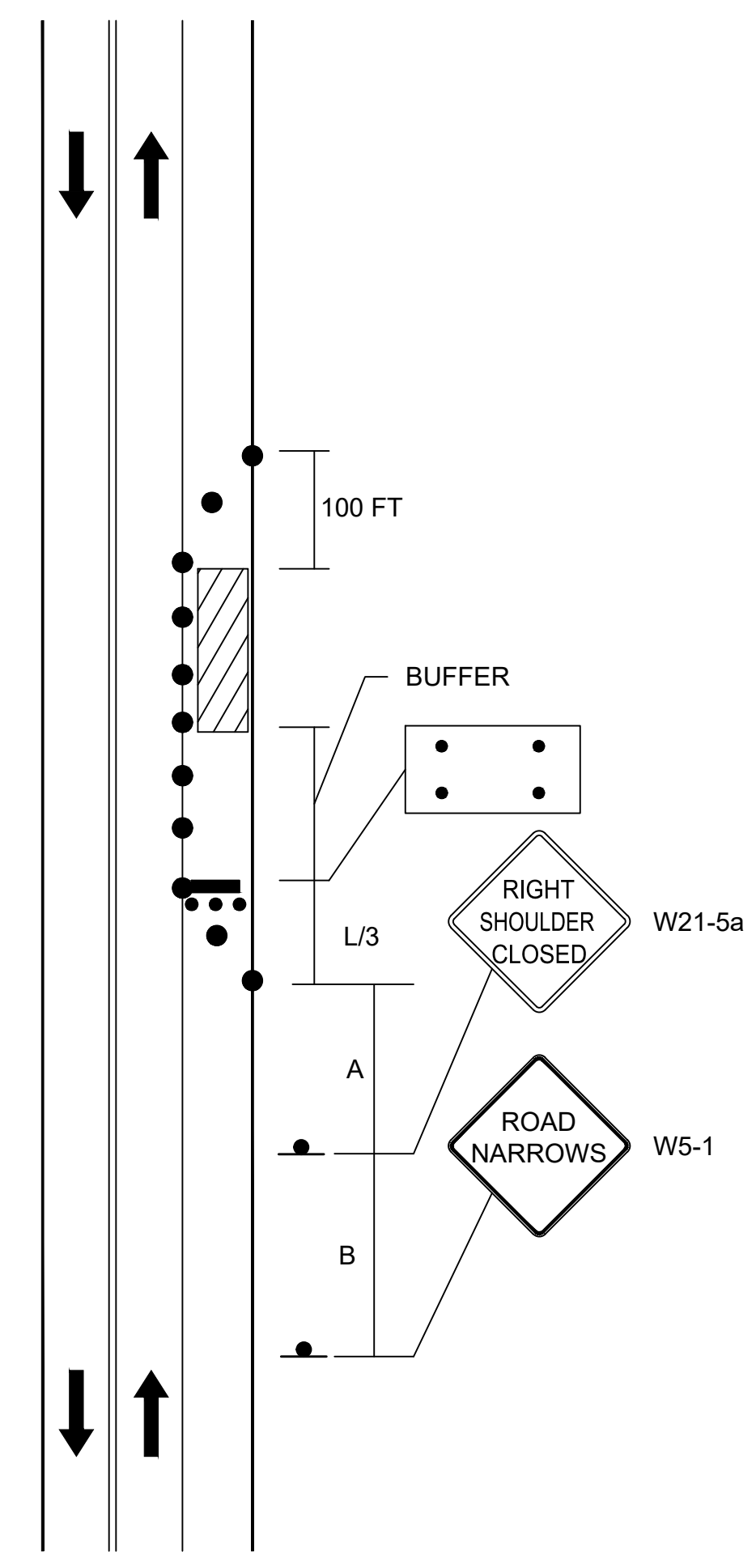


TEMPORARY CURB RAMP-PARALLEL TO CURB

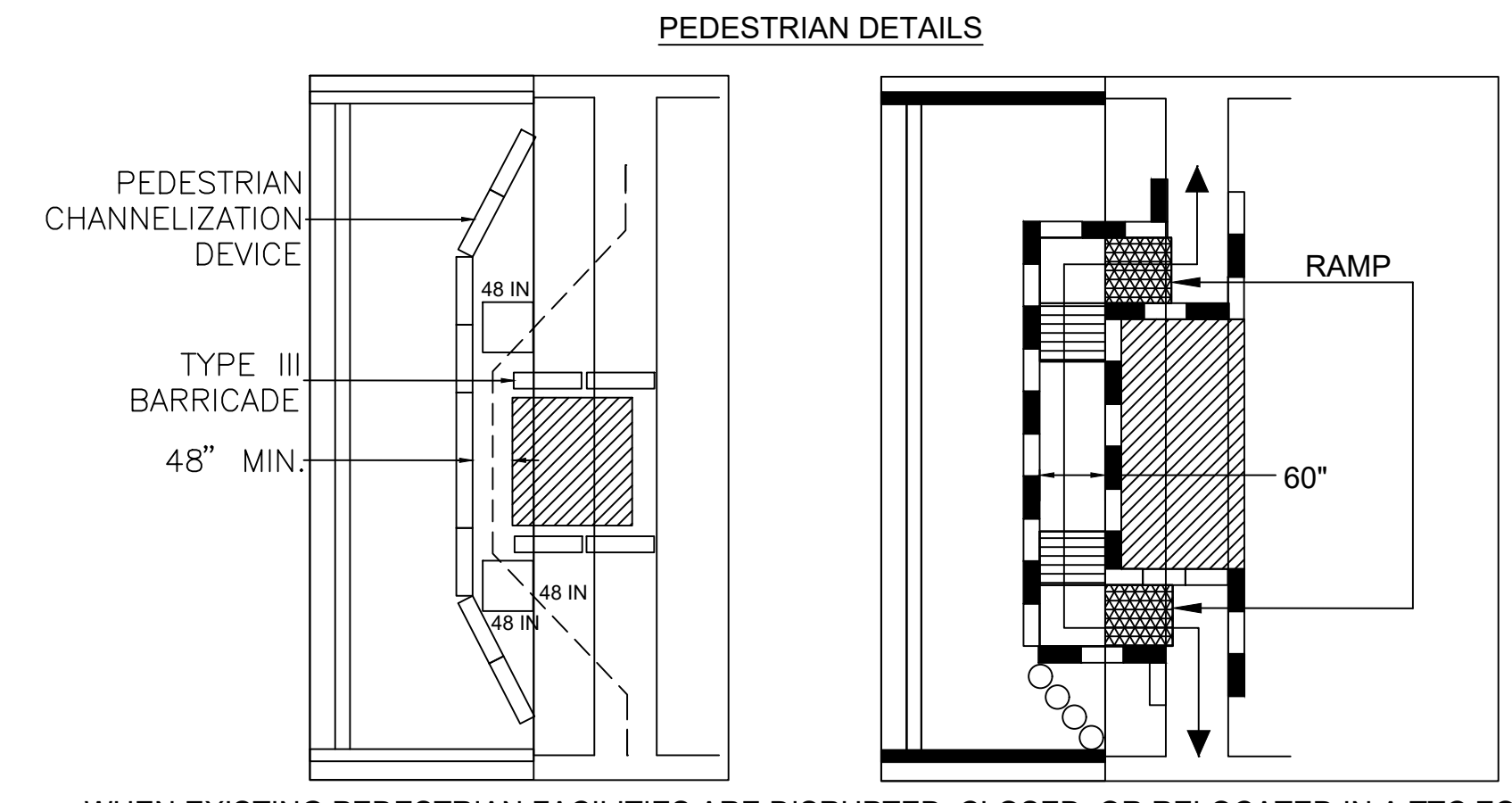


TEMPORARY CURB RAMP-PERPENDICULAR TO CURB





**STATIONARY OPERATION  
TWO LANE UNDIVIDED ROADWAY  
SHOULDER CLOSED**

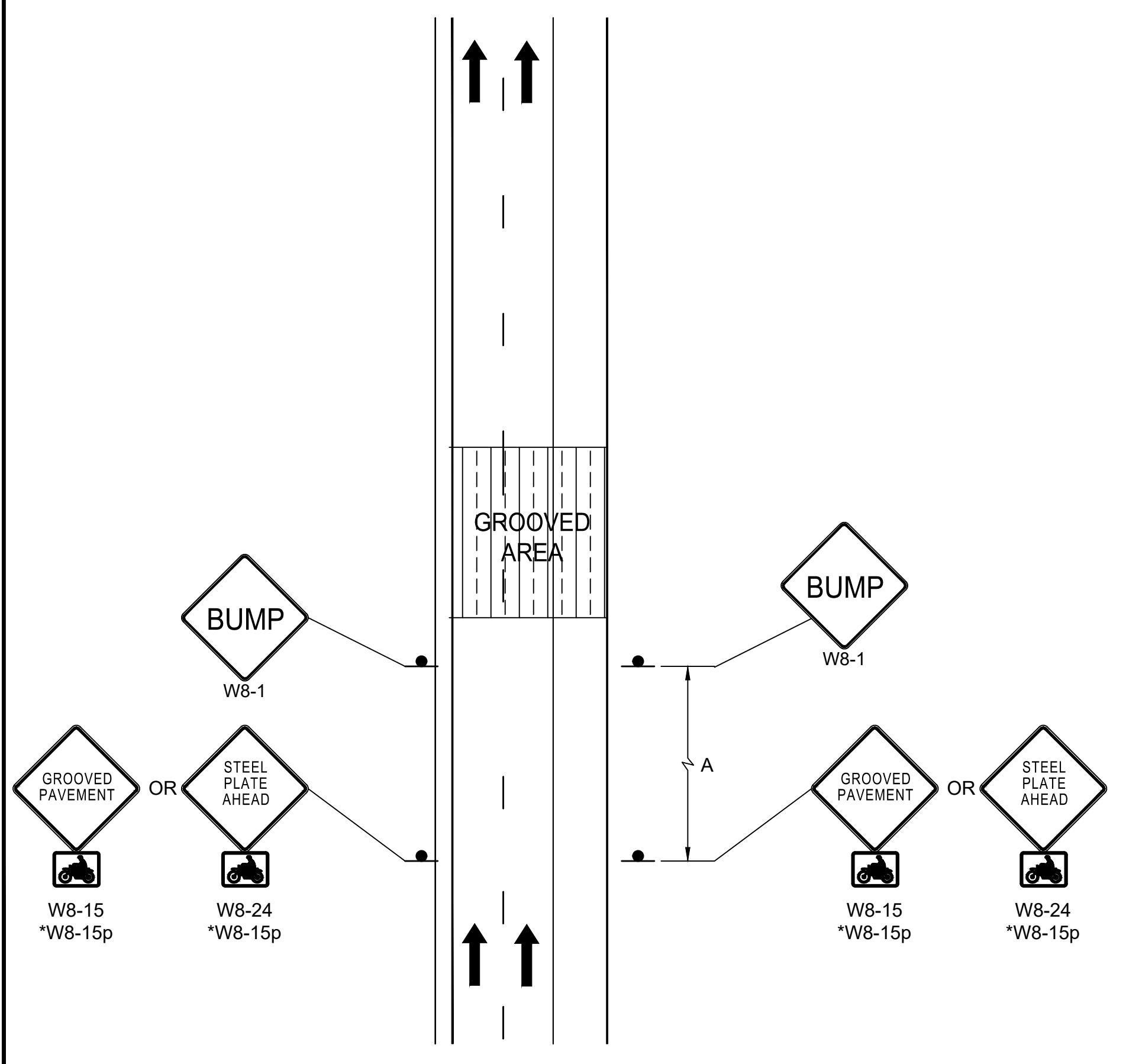


- WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A TTC ZONE, TEMPORARY FACILITIES SHALL BE PROVIDED AND THEY SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
- A PEDESTRIAN CHANNELIZING DEVICE 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 HAND-TRAILING EDGE
- 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.

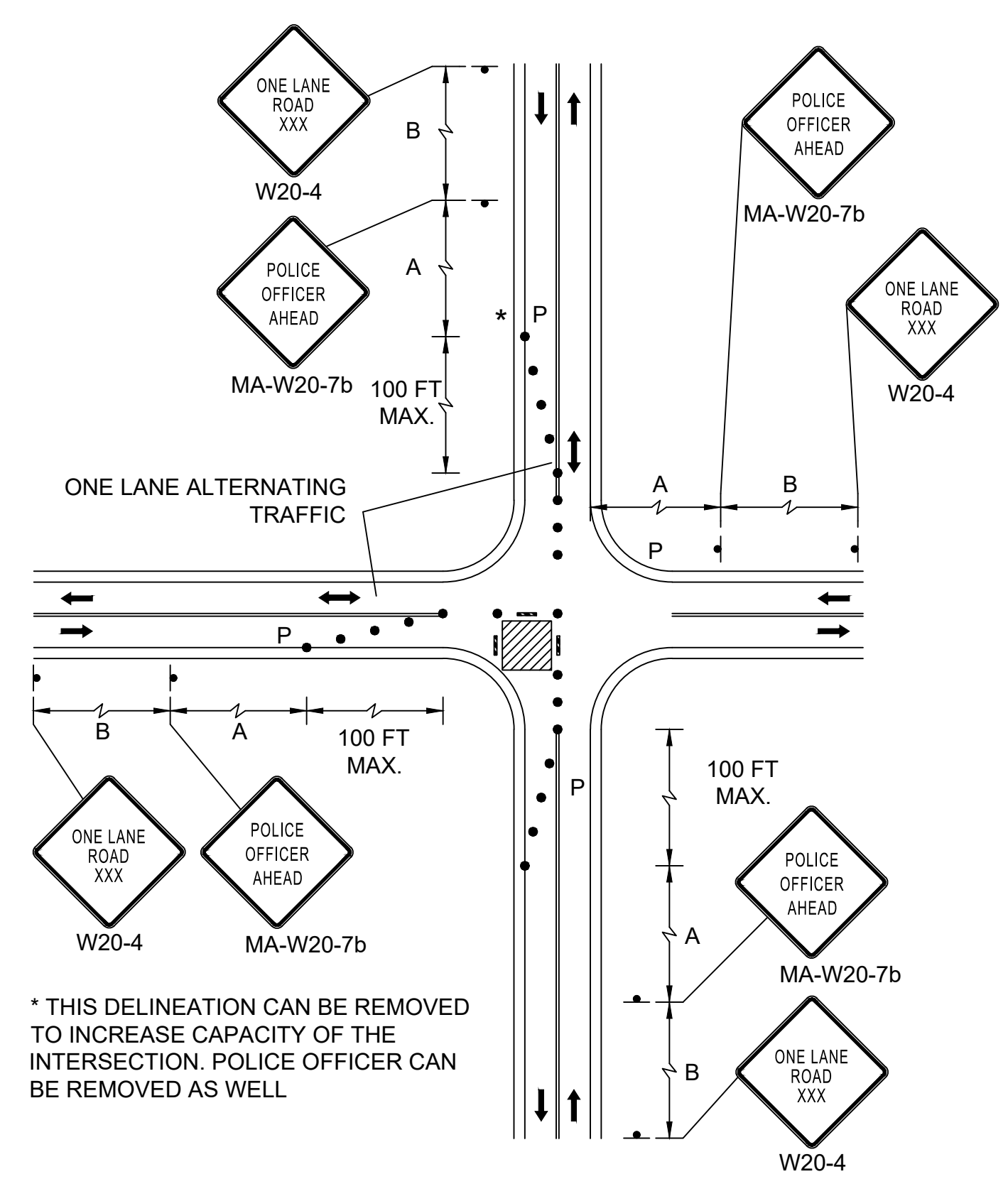
**AUDIBLE DEVICES**

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.

NOTE: ADA COMPLIANT ACCESS SHALL BE MAINTAINED AT ALL TIMES, INCLUDING PEDESTRIAN GUIDANCE SYSTEMS AT WORK ZONES. ANY PEDESTRIAN DETOURS OR BYPASSES SHALL INCLUDE ADA COMPLIANT ROUTES WITH PROPER BARRICADES, RAILINGS, RAMPS, SIGNAGE, AND ANY OTHER EQUIPMENT NECESSARY FOR THE ROUTE.

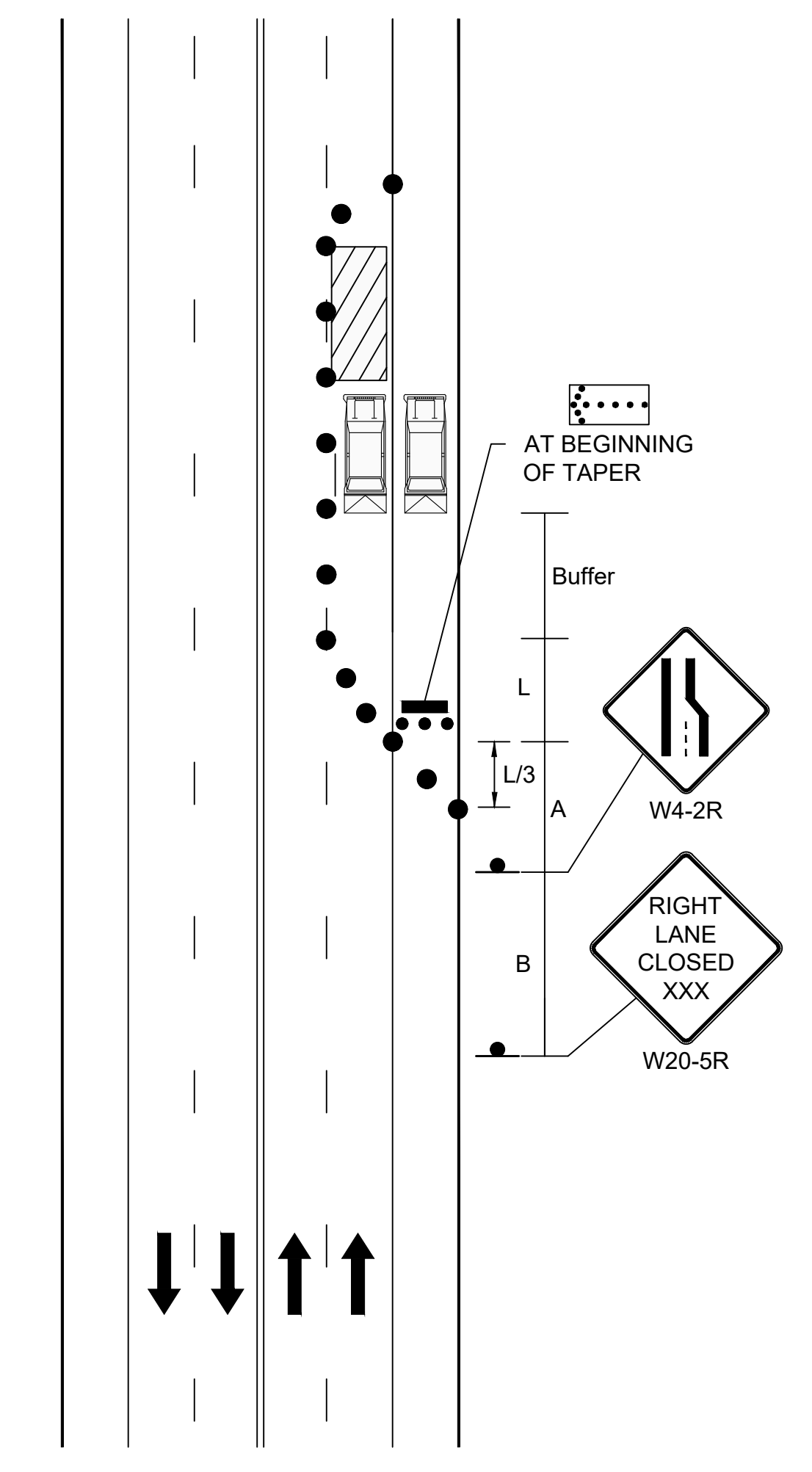


**MULTILANE DIVIDED ROADWAY  
SCARIFIED PAVEMENT/STEEL PLATE**

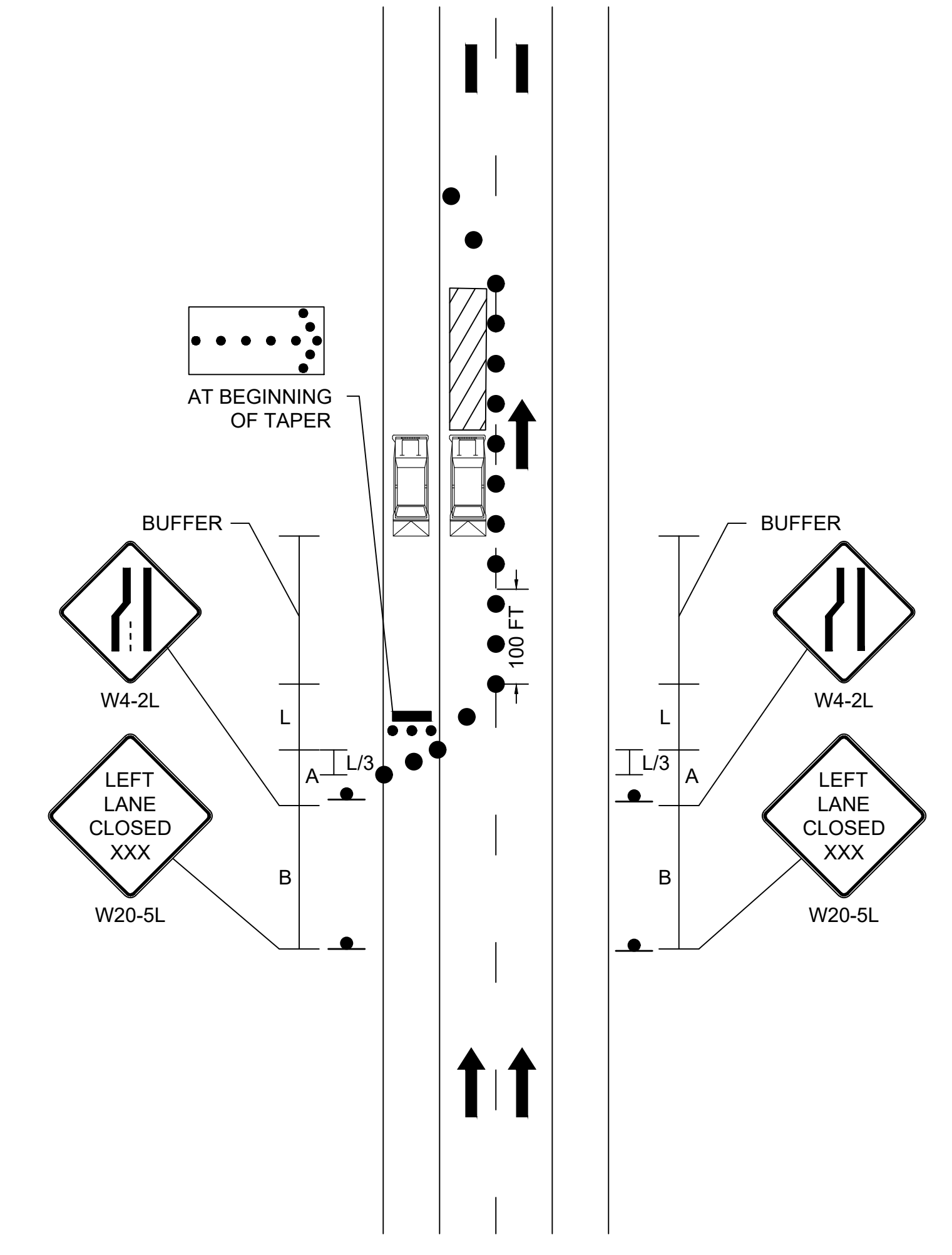


\* THIS DELINEATION CAN BE REMOVED TO INCREASE CAPACITY OF THE INTERSECTION. POLICE OFFICER CAN BE REMOVED AS WELL

**SINGLE LANE APPROACH  
ONE QUADRANT CLOSURE  
NOT TO SCALE**



**STATIONARY OPERATION  
FOUR LANE UNDIVIDED ROADWAY  
RIGHT LANE CLOSED**



**MULTILANE DIVIDED ROADWAY  
LEFT LANE CLOSED  
NOT TO SCALE**

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	147	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGING CROSS SECTIONS**

**STAGE 1 NOTES:**

- MAINTAIN EB TRAFFIC IN EXISTING LOCATION.
- CONSTRUCT TEMPORARY PAVEMENT ALONG WB LANES.
- STAGE 1 SHALL BE COMPLETED DURING NIGHT WORK HOURS
- REDUCE WB TO SINGLE LANE. FOR LANE CLOSURE SEE DETAIL ON SHEET 146.

**STAGE 2 NOTES:**

- MAINTAIN TRAFFIC IN EXISTING LOCATION.
- CONSTRUCT NORTHERN MOST PORTION OF PROPOSED ROADWAY
- CONSTRUCT TEMPORARY PAVEMENT FOR WB LANES IN STAGE 3 AND STAGE 4. VERIZON TO SPLICE EXISTING AERIAL CABLES INTO EXISTING UNDERGROUND DUCTBANK, INSTALL PERMANENT CONNECTION FROM EXISTING UNDERGROUND DUCTBANK ON ROUTE 6 TO EXISTING UNDERGROUND DUCTBANK ON EDGEHILL. SEE SHEET 105 FOR DESCRIBED SCOPE.
- INSTALL PROPOSED COMCAST UTILITY DUCTS, OPEN CAPE UTILITY DUCTS, EVERSOURCE ELECTRIC DUCT BANK AND REMOVE EXISTING UTILITY POLES AFTER THE NEW UNDERGROUND SERVICES AND ENABLING VERIZON SPLICE ARE ACTIVE.
- FROM STA 128+12.50 TO STA 135+07.50 SEE SHEET 148.

**STAGE 3 NOTES:**

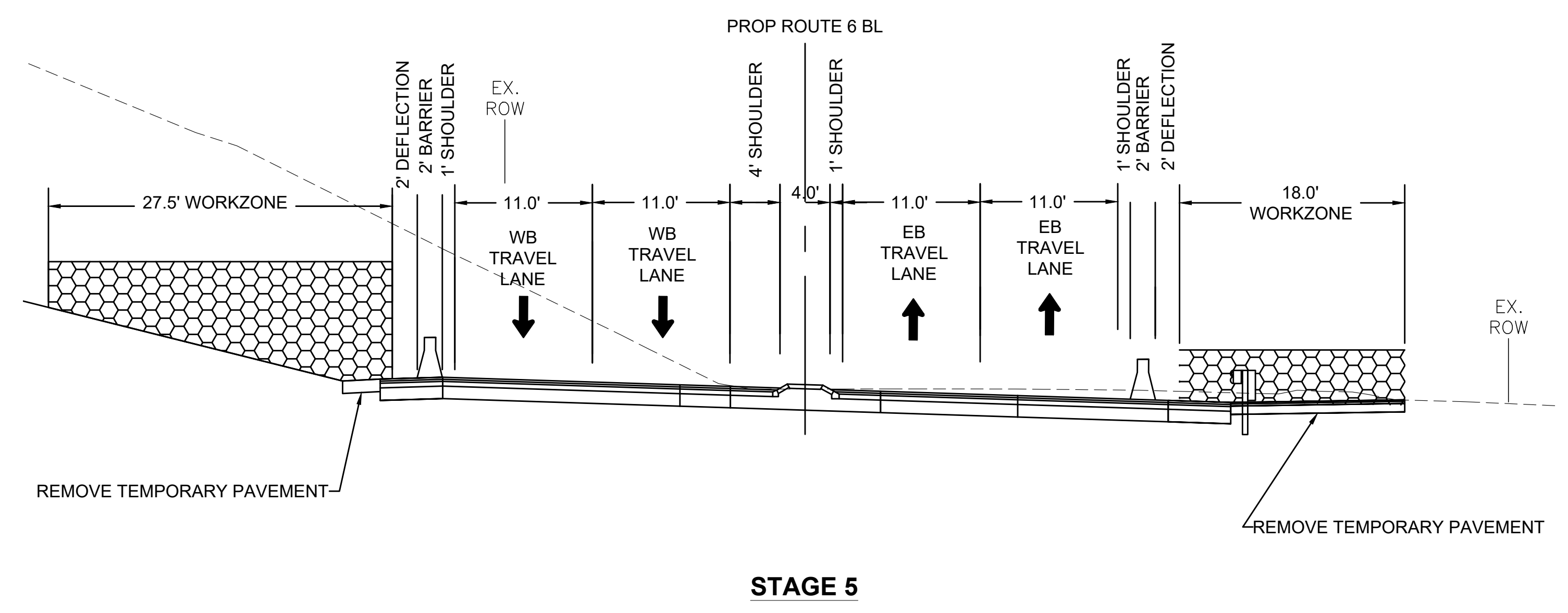
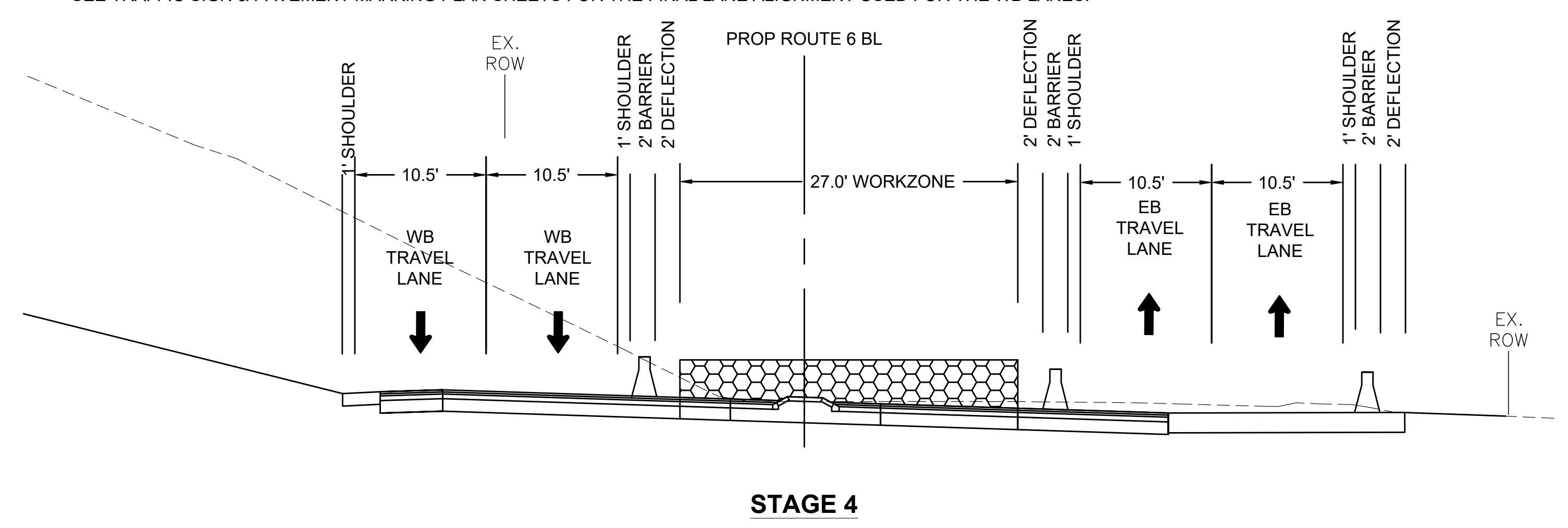
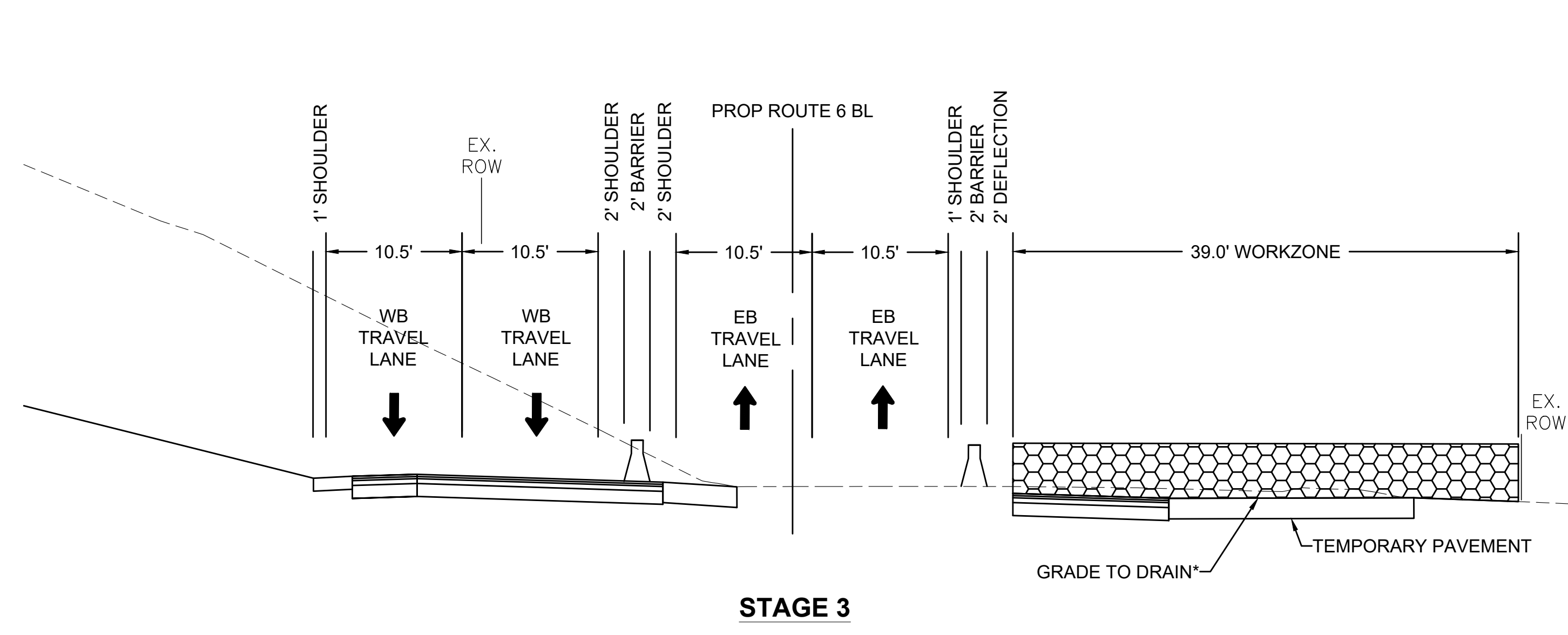
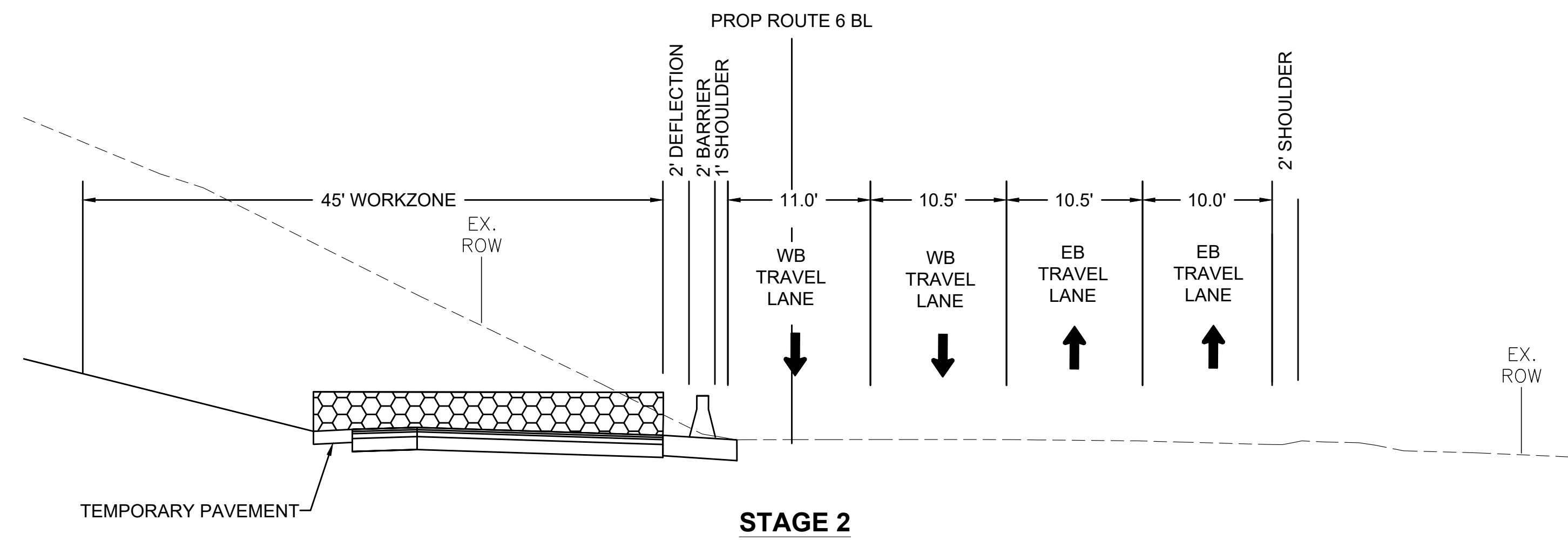
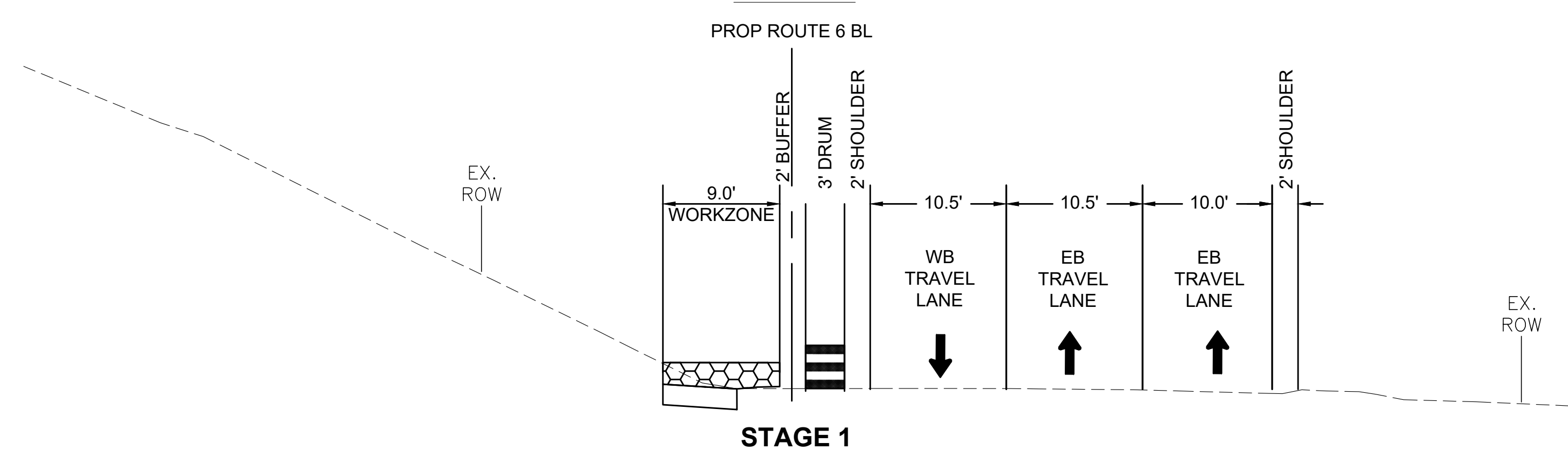
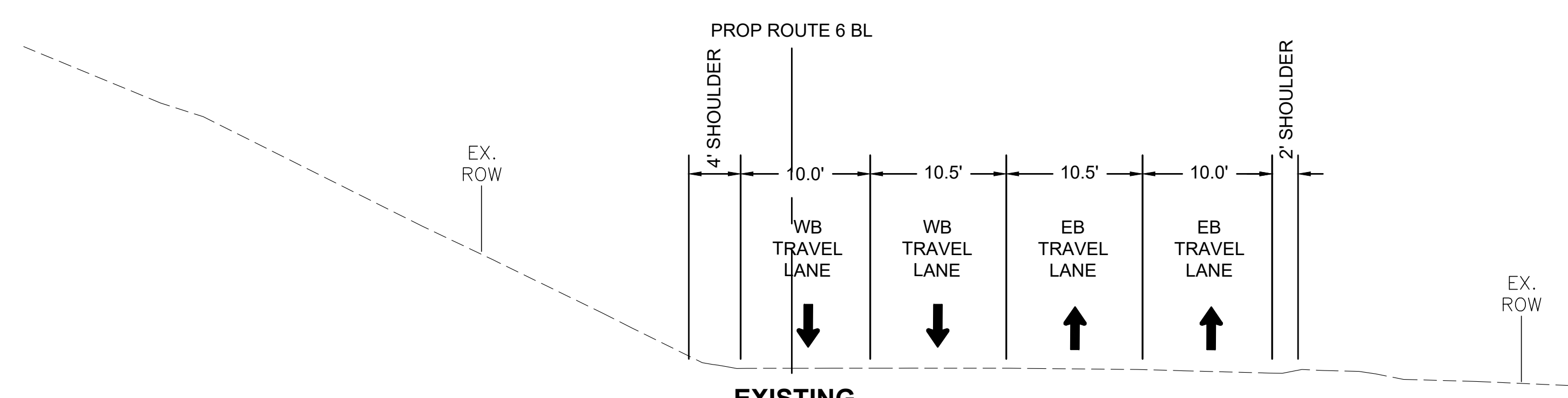
- SHIFT 2 WB LANES ONTO THE PROPOSED ROADWAY AND TEMPORARY PAVEMENT CONSTRUCTED IN STAGE 2.
- SHIFT BOTH EB LANES AT EXISTING GRADE AND ON TEMPORARY PAVEMENT CONSTRUCTED IN STAGE 1.
- CONSTRUCT THE SOUTHERLY SIDE OF THE ROADWAY AND PROPOSED SUP TO PROPOSED GRADE.
- INSTALL PROPOSED TELEPHONE DUCTS.
- FROM STA 128+12.50 TO STA 135+07.50 SEE SHEET 148.

**STAGE 4 NOTES:**

- MAINTAIN THE 2 WB LANES IN SAME LOCATION AS STAGE 3.
- SHIFT BOTH EB LANES TO THE PROPOSED SUP AND PROPOSED EB TRAVEL LANE.
- CONSTRUCT MIDDLE PORTION OF ROADWAY, INCLUDING EDGING AND CEMENT CONCRETE MEDIAN. CONSTRUCTION TO BE COMPLETED IN TWO SEPARATE SECTIONS AND UTILIZE BARRIER R&R AND DRUMS TO COVER HALF OF THE CORRIDOR AT A TIME.
- RELOCATE AND LOWER 12-INCH WATER MAIN FROM APPROX. STA 127+00 TO STA 139+00 TO PROVIDE 5 FEET OF COVER BELOW LOWER PROPOSED ROADWAY

**STAGE 5 NOTES:**

- SHIFT WB LANES TO THE FINAL CONDITION. SHIFT EB LANES TO THE MIDDLE PORTION OF THE ROADWAY TO REMOVE THE TRENCH DRAIN
- REMOVE TEMPORARY PAVEMENT.
- INSTALL GUARDRAIL
- CONSTRUCT SWALE
- SEE TRAFFIC SIGN & PAVEMENT MARKING PLAN SHEETS FOR THE FINAL LANE ALIGNMENT USED FOR THE WB LANES.



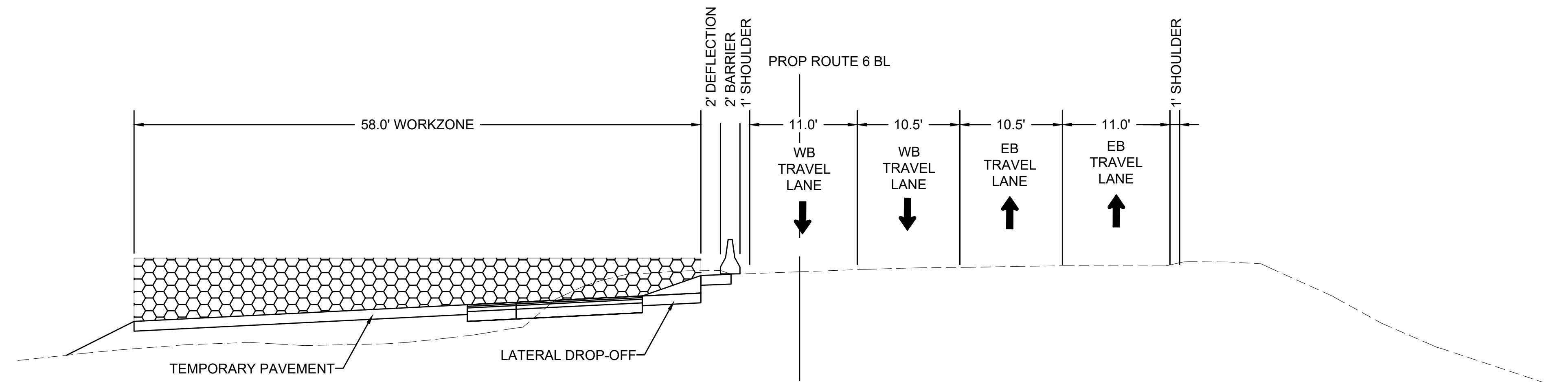
\* NOTE: CONTRACTOR SHALL INSTALL TEMPORARY SLOTTED DRAIN, AS NEEDED, OR AS REQUIRED BY THE ENGINEER. SEE CONSTRUCTION DETAILS ON SHEET 184 FOR SLOTTED DRAIN REQUIREMENTS.



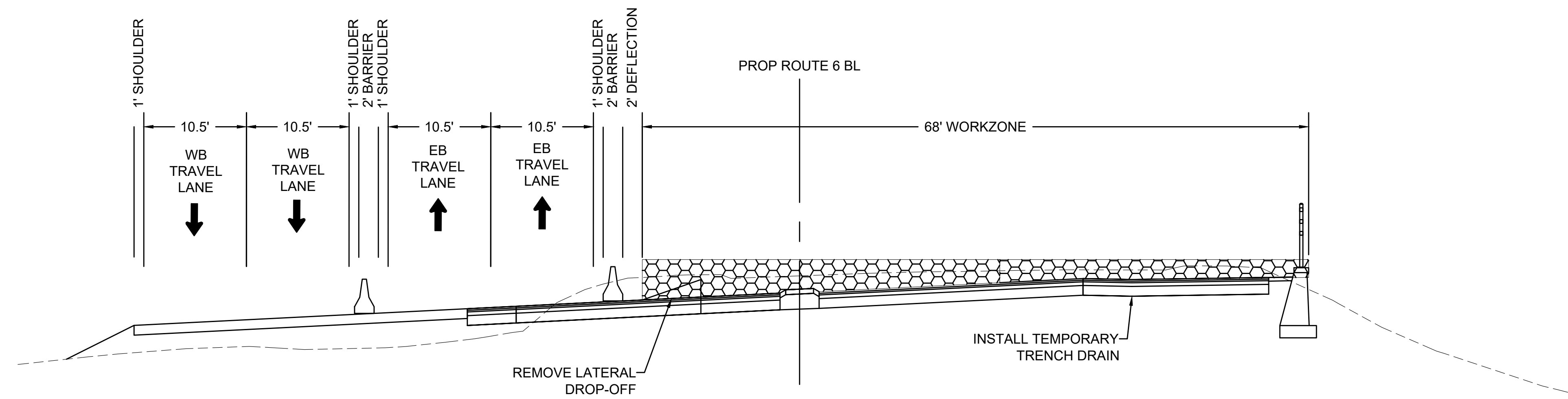
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	148	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGING CROSS SECTIONS**



**STAGE 2**  
STA 128+12.50 TO STA 135+07.50



**STAGE 3**  
STA 128+12.50 TO STA 135+07.50

GENERAL NOTES:

THE PROFILE FOR THE CREST CURVE FROM STA 128+12.50 TO STA 135+07.50 IS SUBSTANDARD AND WILL BE REVISED TO MEET STANDARDS BY LOWERING THE PROFILE UP TO 1.5 FEET. THE TYPICAL SECTIONS ON THIS SHEET SHOW THE STAGING REQUIRED FOR THIS CREST SECTION OF ROADWAY. STAGE 1 WILL BE THE SAME SETUP AS THE TYPICAL STAGING SECTIONS. THE ADDITIONAL TEMPORARY PAVEMENT WILL BE CONSTRUCTED IN STAGE 2 FOR VEHICLES TO DRIVE ON IN STAGE 3. STAGE 4 IS SHOWN WITH NO "MIDDLE" WORKZONE TO MATCH THE STAGING OUTSIDE OF THESE LIMITS SINCE THIS PORTION OF ROADWAY CAN BE BUILT IN STAGE 3. STAGE 5 WILL BE THE SAME SETUP AS THE TYPICAL STAGING SECTIONS

STAGE 2 NOTES:

- MAINTAIN TRAFFIC IN EXISTING LOCATION.
- CONSTRUCT NORTHERN MOST PORTION OF PROPOSED ROADWAY
- CONSTRUCT TEMPORARY PAVEMENT FOR EB AND WB LANES IN STAGE 3

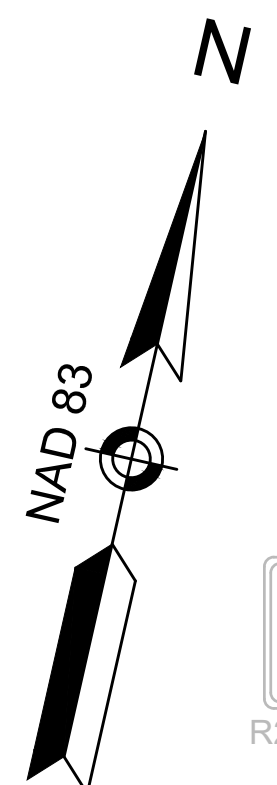
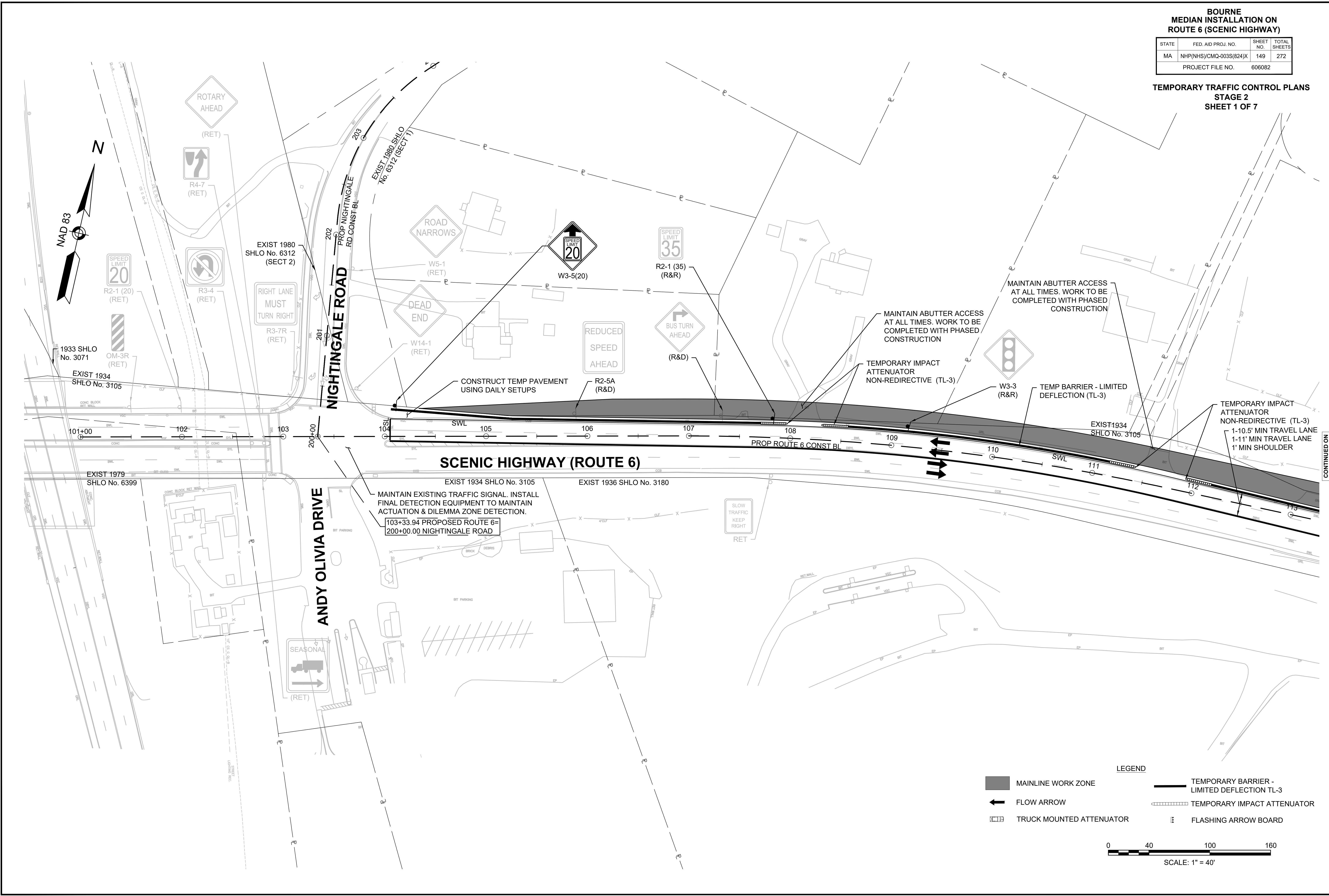
STAGE 3 NOTES:

- SHIFT EB AND WB LANES ONTO THE PROPOSED ROADWAY AND TEMPORARY PAVEMENT CONSTRUCTED IN STAGE 2.
- CONSTRUCT THE SOUTHERLY SIDE OF THE ROADWAY TO PROPOSED GRADE.
- TEMPORARY PAVEMENT TO BE REMOVED IN STAGE 5

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	149	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 2  
SHEET 1 OF 7**



EXIST 1934 SHLO No. 3105  
103+33.94 PROPOSED ROUTE 6 =  
200+00.00 NIGHTINGALE ROAD

EXIST 1934 SHLO No. 3105  
EXIST 1936 SHLO No. 3180  
MAINTAIN EXISTING TRAFFIC SIGNAL. INSTALL  
FINAL DETECTION EQUIPMENT TO MAINTAIN  
ACTUATION & DILEMMA ZONE DETECTION.

**LEGEND**

- MAINLINE WORK ZONE
- FLOW ARROW
- TRUCK MOUNTED ATTENUATOR
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- TEMPORARY IMPACT ATTENUATOR
- FLASHING ARROW BOARD

0 40 100 160  
SCALE: 1" = 40'

606082\_TRT(STAGE 2).DWG Plotted on 17-Mar-2025 10:40 AM CONTINUED ON SHEET NO. 150

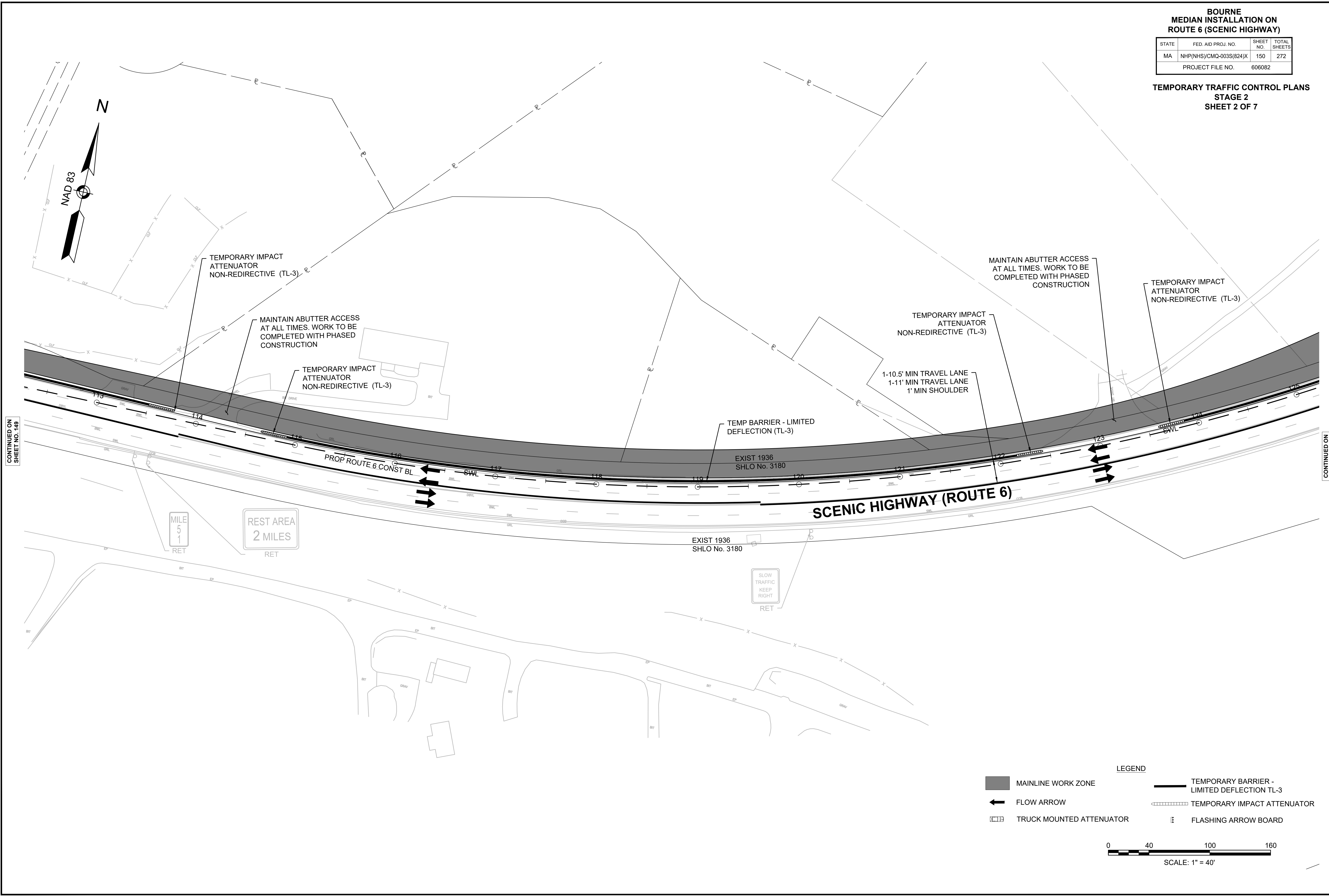


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	150	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 2  
SHEET 2 OF 7**

Plotted on 17-Mar-2025 10:40 AM  
606082\_TR7(STAGE 2).DWG



CONTINUED ON  
SHEET NO. 149

CONTINUED ON  
SHEET NO. 151

**LEGEND**

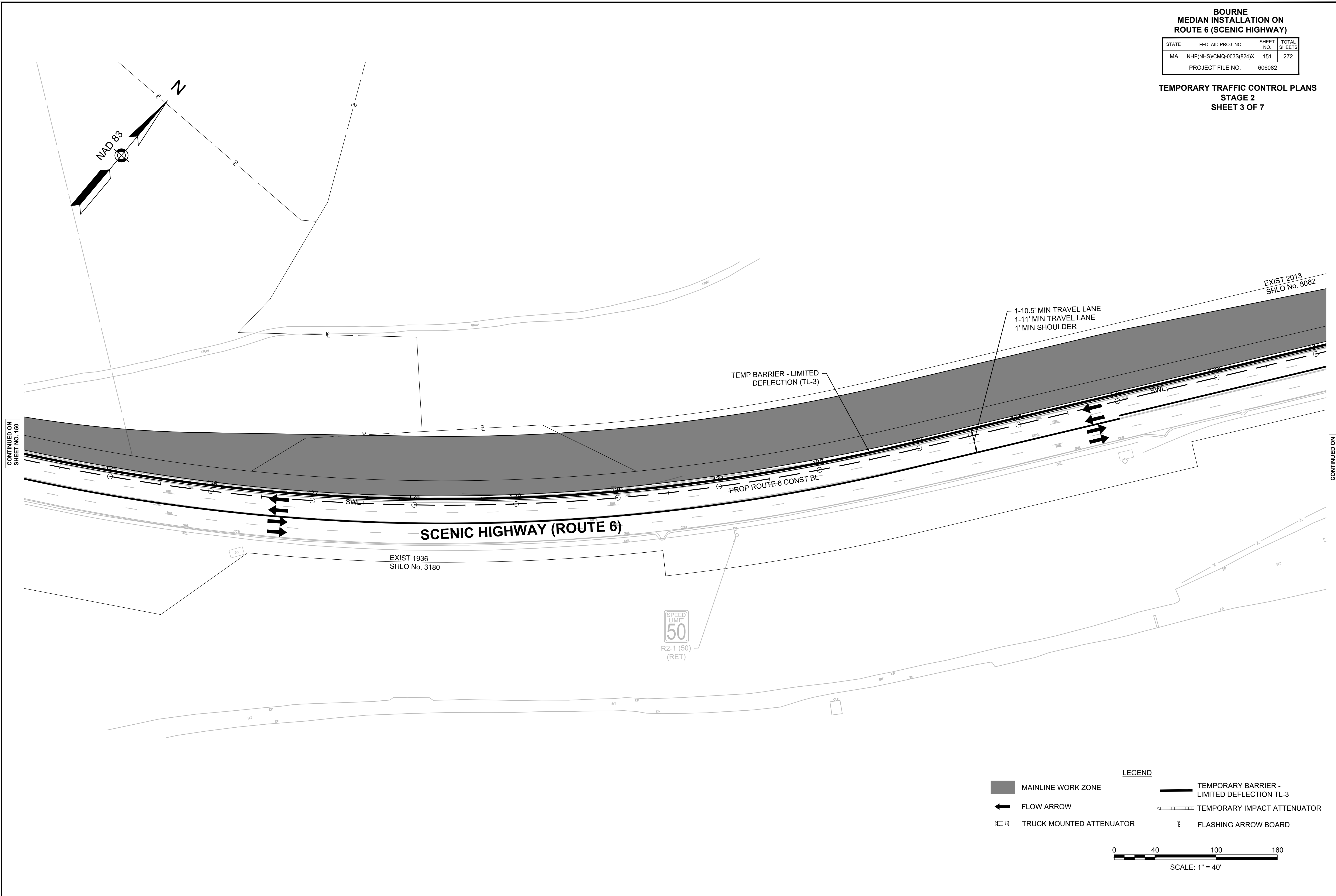
	MAINLINE WORK ZONE		TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
	FLOW ARROW		TEMPORARY IMPACT ATTENUATOR
	TRUCK MOUNTED ATTENUATOR		FLASHING ARROW BOARD

0 40 100 160  
SCALE: 1" = 40'

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	151	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 2  
SHEET 3 OF 7**



CONTINUED ON  
SHEET NO. 150

CONTINUED ON  
SHEET NO. 152

**LEGEND**

MAINLINE WORK ZONE	TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
FLOW ARROW	TEMPORARY IMPACT ATTENUATOR
TRUCK MOUNTED ATTENUATOR	FLASHING ARROW BOARD

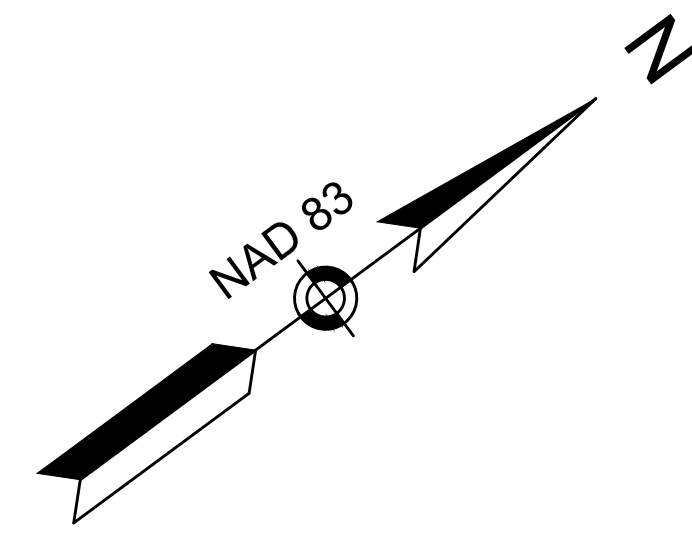
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**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

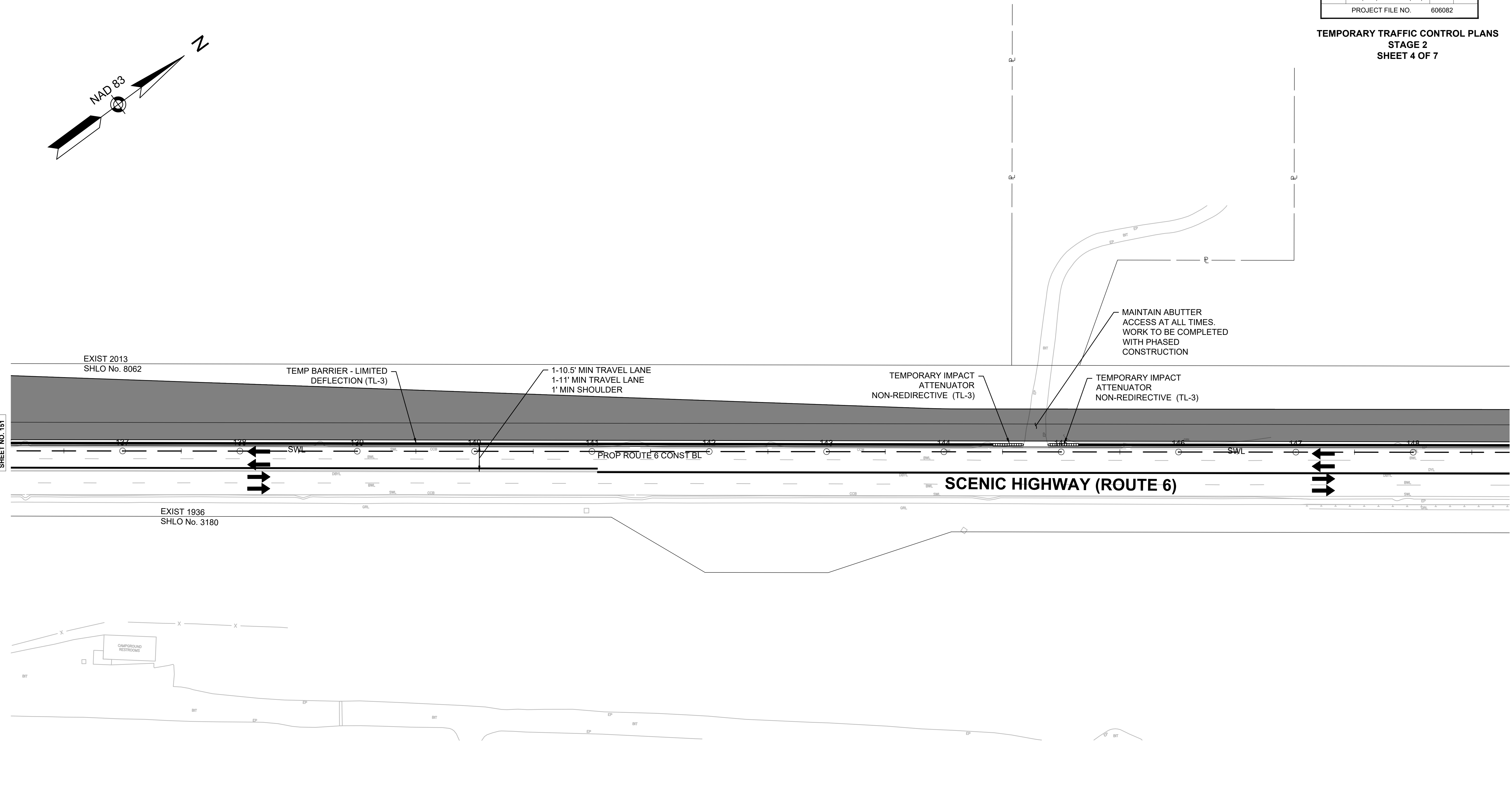
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	152	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 2  
SHEET 4 OF 7**

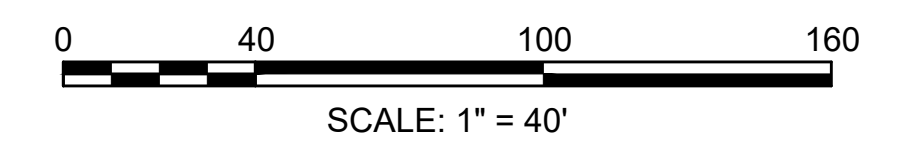


CONTINUED ON  
SHEET NO. 151

CONTINUED ON  
SHEET NO. 153



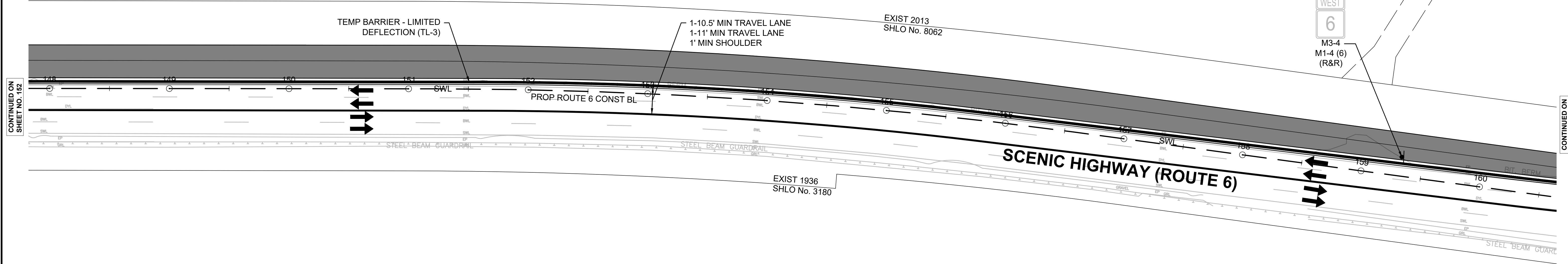
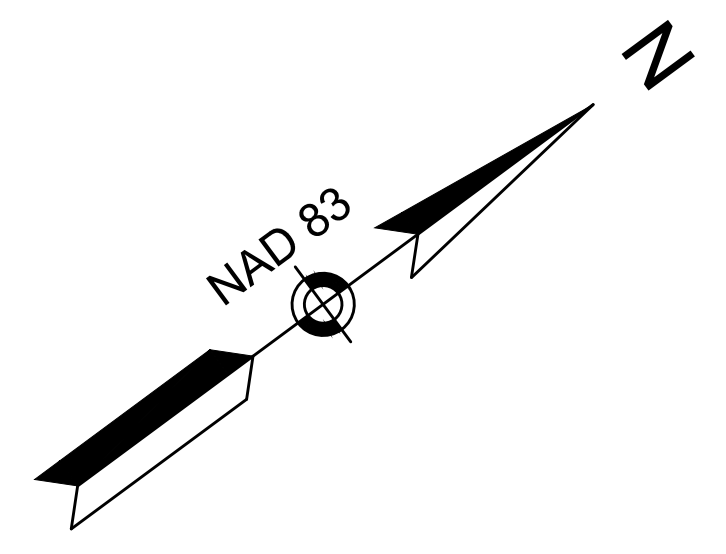
- LEGEND**
- MAINLINE WORK ZONE
  - TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
  - FLOW ARROW
  - TEMPORARY IMPACT ATTENUATOR
  - TRUCK MOUNTED ATTENUATOR
  - FLASHING ARROW BOARD



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	153	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 2  
SHEET 5 OF 7**



CONTINUED ON SHEET NO. 152

CONTINUED ON SHEET NO. 154

**LEGEND**

MAINLINE WORK ZONE	TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
FLOW ARROW	TEMPORARY IMPACT ATTENUATOR
TRUCK MOUNTED ATTENUATOR	FLASHING ARROW BOARD

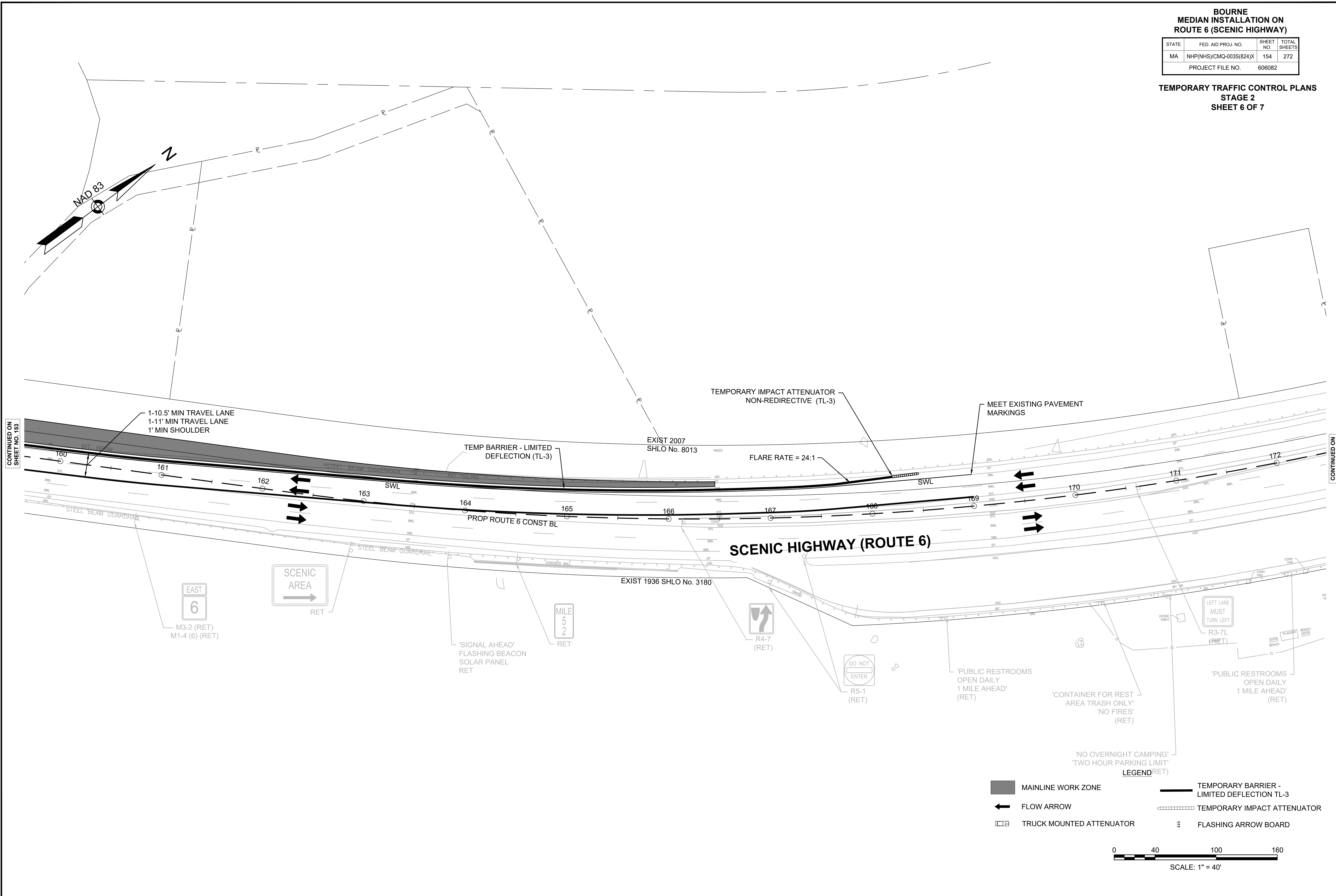
0 40 100 160  
SCALE: 1" = 40'



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	154	272
PROJECT FILE NO.		606082	

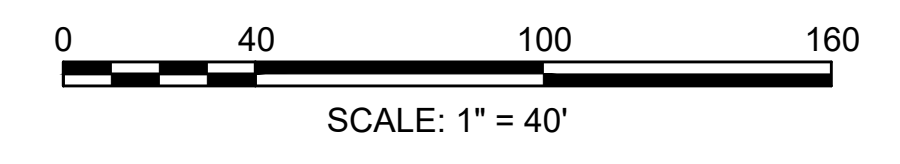
**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 2  
SHEET 6 OF 7**



CONTINUED ON  
SHEET NO. 153

CONTINUED ON  
SHEET NO. 155

- LEGEND**
- MAINLINE WORK ZONE
  - TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
  - FLOW ARROW
  - TEMPORARY IMPACT ATTENUATOR
  - TRUCK MOUNTED ATTENUATOR
  - FLASHING ARROW BOARD

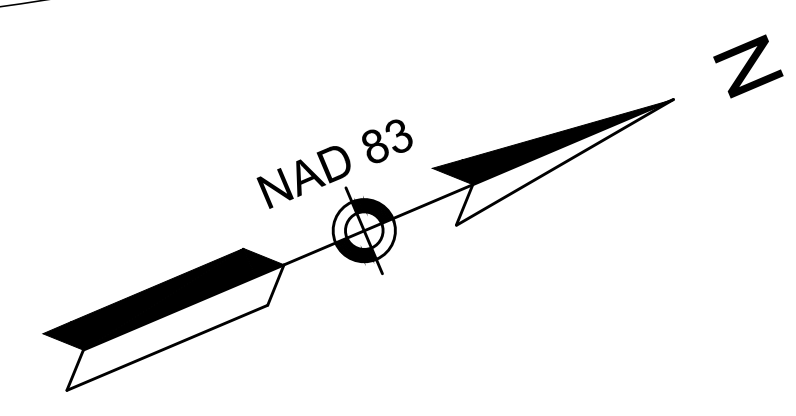


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

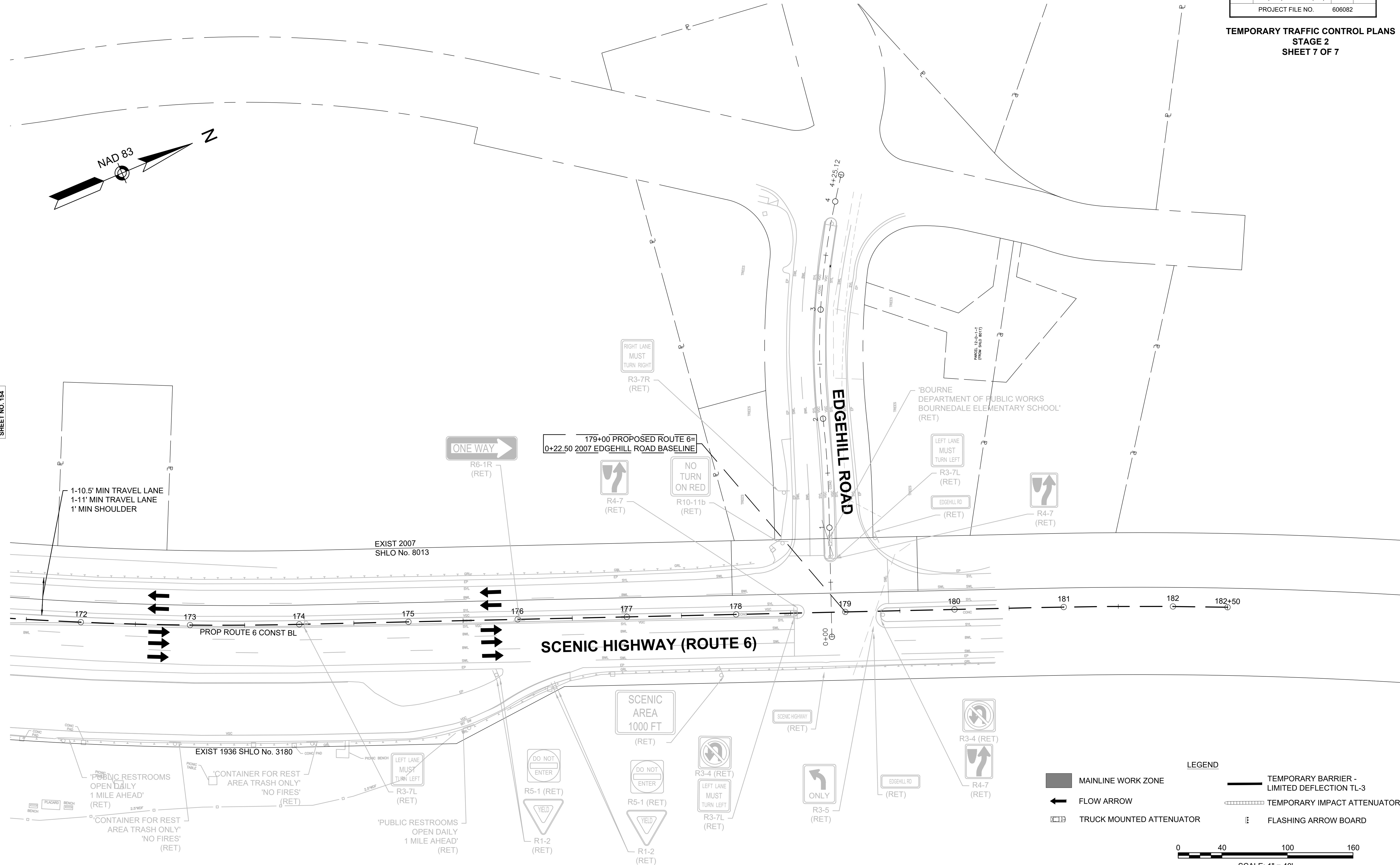
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	155	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 2  
SHEET 7 OF 7**

606082\_TR7(STAGE 2).DWG Plotted on 17-Mar-2025 10:40 AM



CONTINUED ON  
SHEET NO. 154



**LEGEND**

- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD

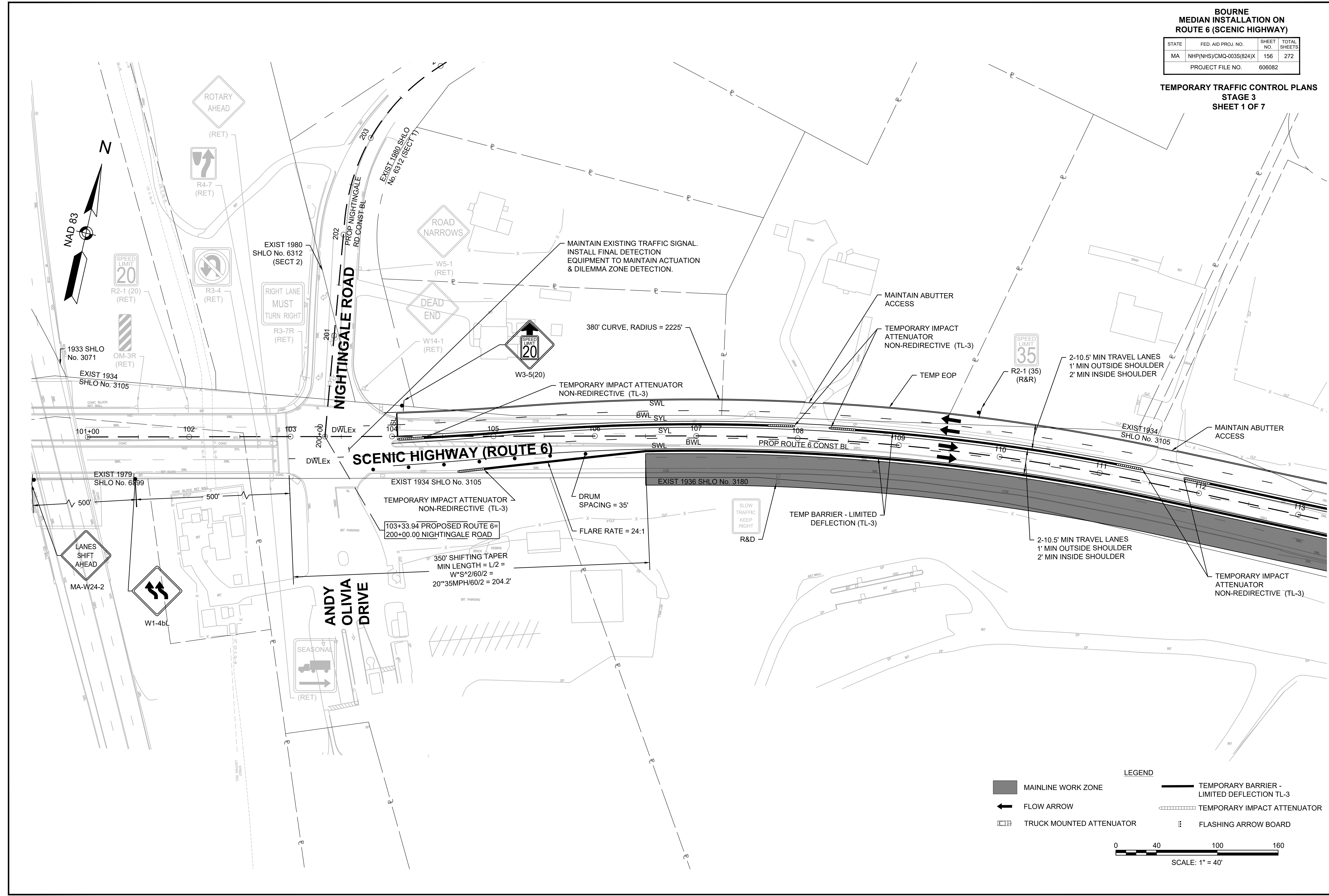
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SCALE: 1" = 40'



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	156	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 3  
SHEET 1 OF 7**



**LEGEND**

- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- TMA TRUCK MOUNTED ATTENUATOR
- | FLASHING ARROW BOARD

0 40 100 160  
SCALE: 1" = 40'

CONTINUED ON SHEET NO. 157.

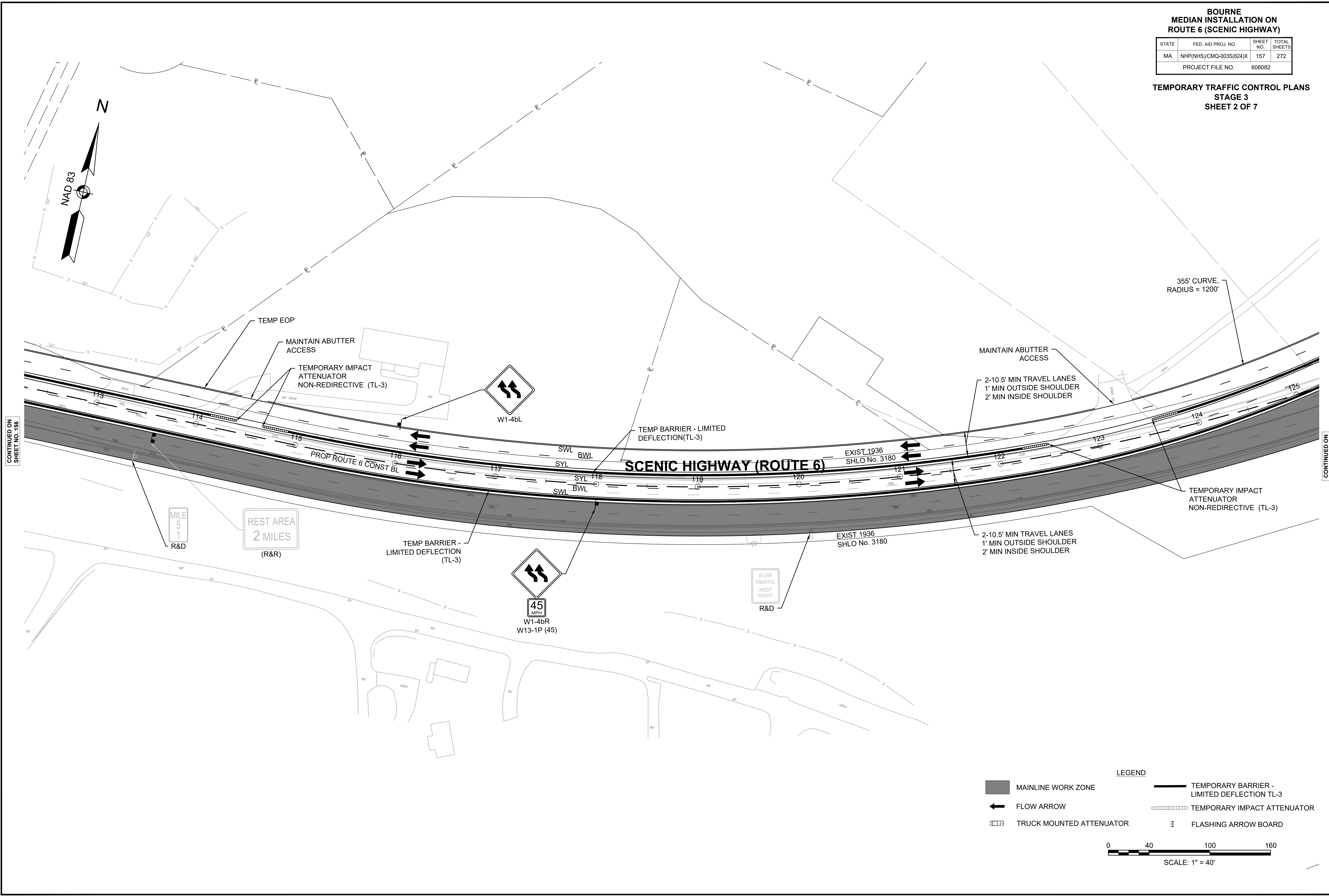


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	157	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 3  
SHEET 2 OF 7**

606082\_TR7(STAGE 3).DWG Plotted on 17-Mar-2025 10:41 AM



CONTINUED ON SHEET NO. 156

CONTINUED ON SHEET NO. 158

**LEGEND**

	MAINLINE WORK ZONE		TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
	FLOW ARROW		TEMPORARY IMPACT ATTENUATOR
	TRUCK MOUNTED ATTENUATOR		FLASHING ARROW BOARD

0 40 100 160  
SCALE: 1" = 40'

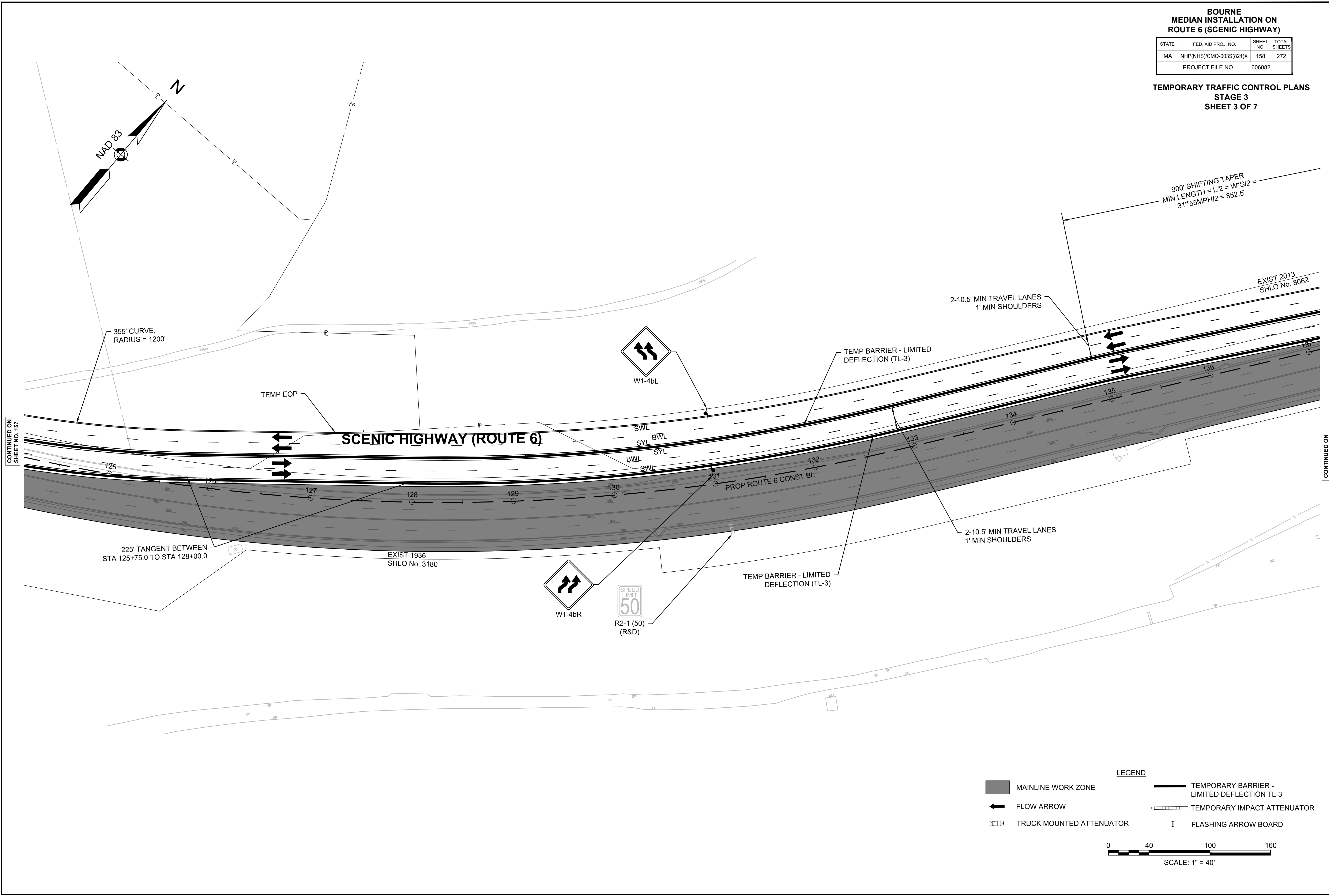


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	158	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 3  
SHEET 3 OF 7**

606082\_TRT7(STAGE 3).DWG Plotted on 17-Mar-2025 10:41 AM



CONTINUED ON  
SHEET NO. 157

CONTINUED ON  
SHEET NO. 159

**LEGEND**

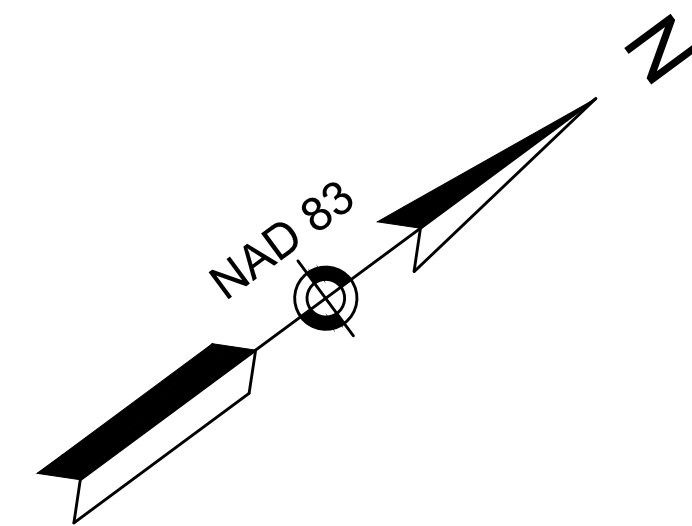
- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD

0 40 100 160  
SCALE: 1" = 40'

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

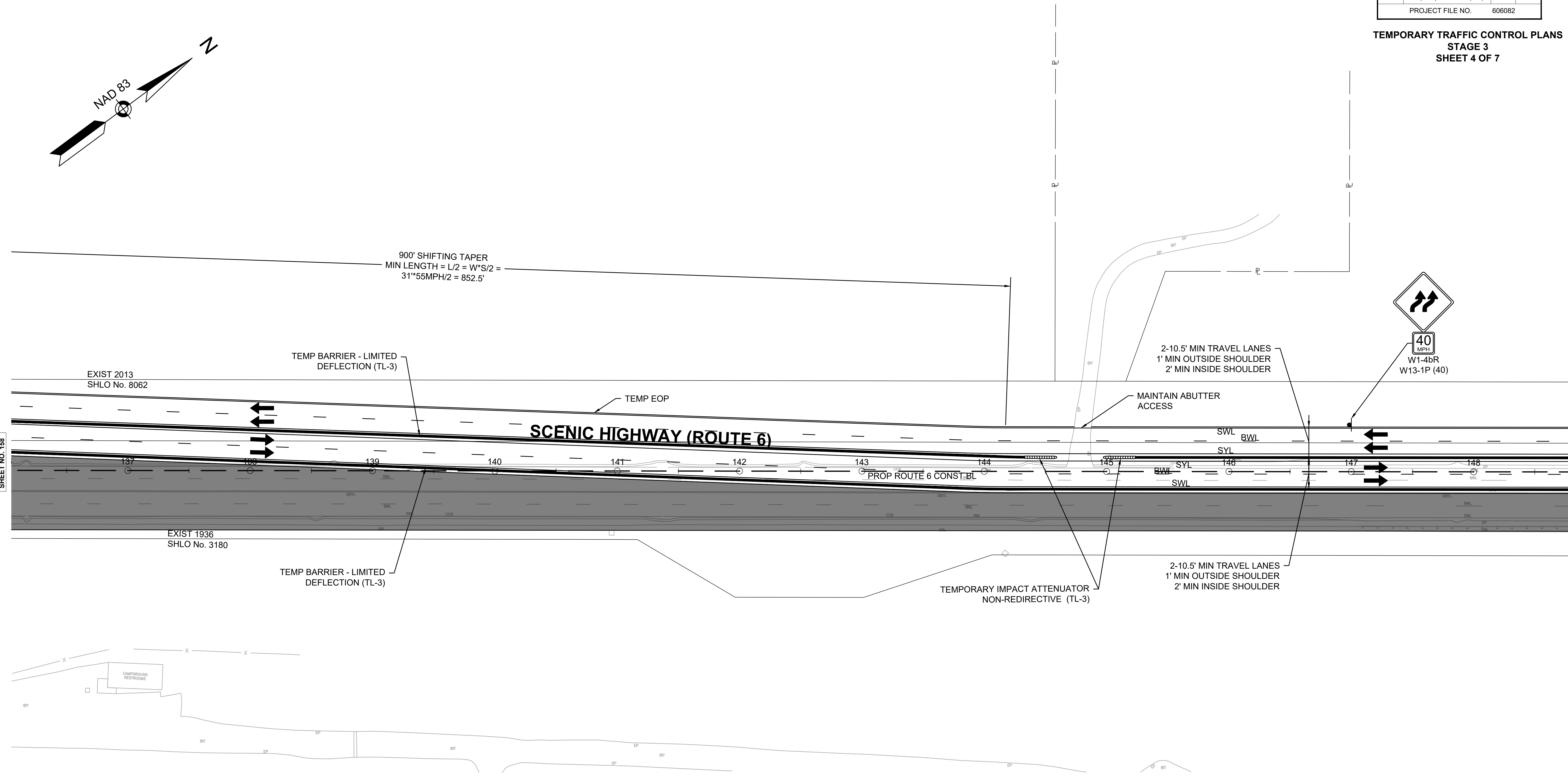
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	159	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 3  
SHEET 4 OF 7**



CONTINUED ON  
SHEET NO. 158

CONTINUED ON  
SHEET NO. 160



**LEGEND**

- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD

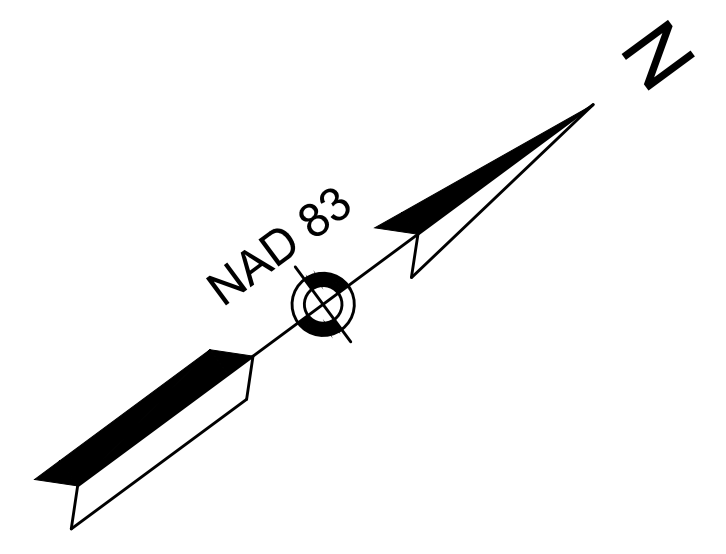
0 40 100 160  
SCALE: 1" = 40'



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

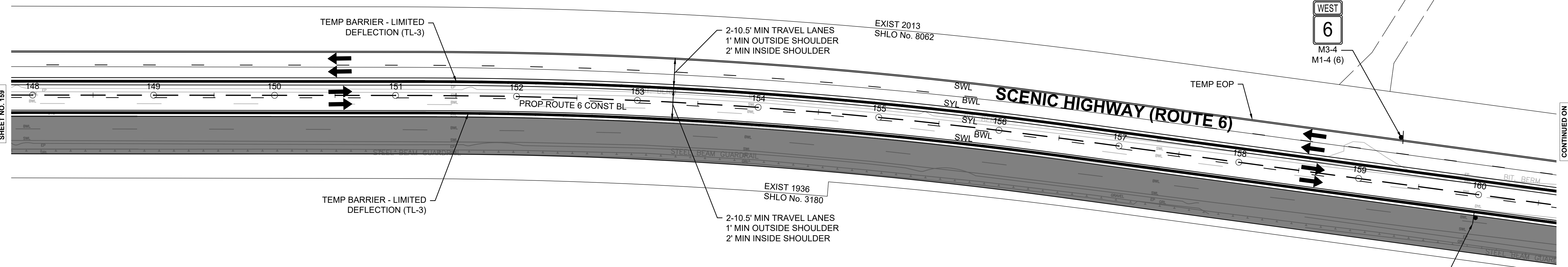
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	160	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 3  
SHEET 5 OF 7**



CONTINUED ON  
SHEET NO. 159

CONTINUED ON  
SHEET NO. 161



**LEGEND**

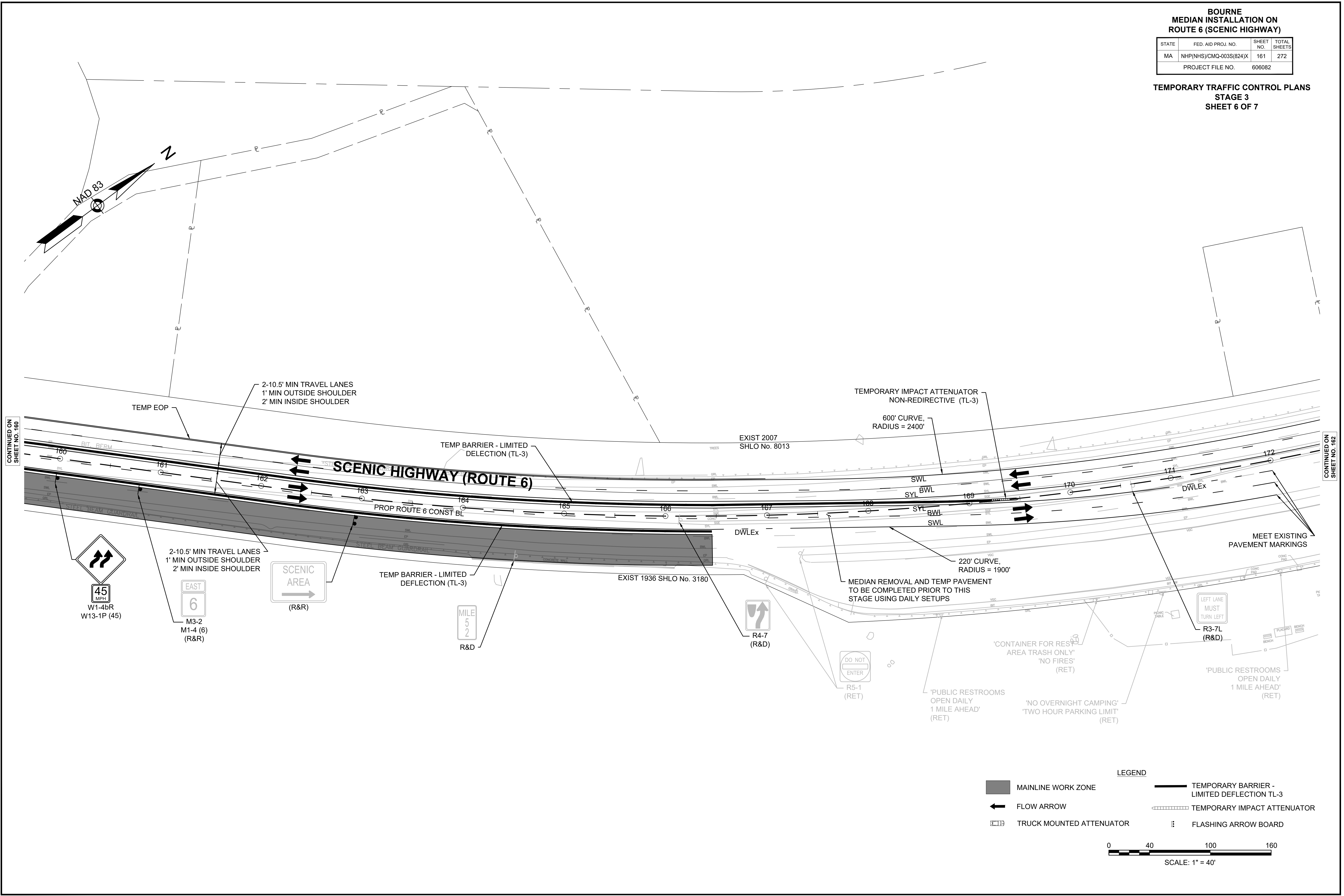
- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD

0 40 100 160  
SCALE: 1" = 40'

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	161	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 3  
SHEET 6 OF 7**



CONTINUED ON  
SHEET NO. 160

CONTINUED ON  
SHEET NO. 162

**LEGEND**

- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- DO NOT ENTER TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD FLASHING ARROW BOARD

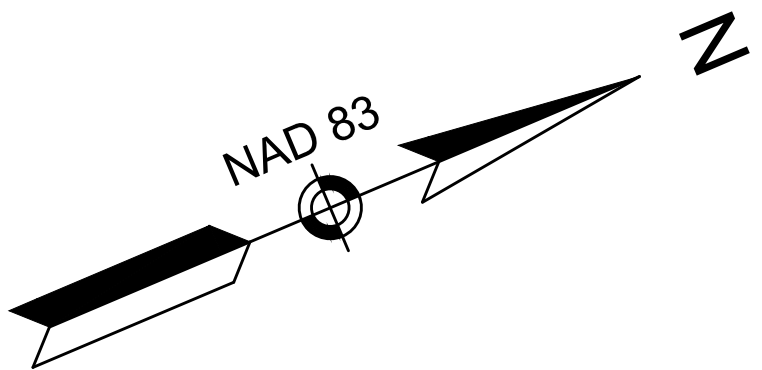
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SCALE: 1" = 40'



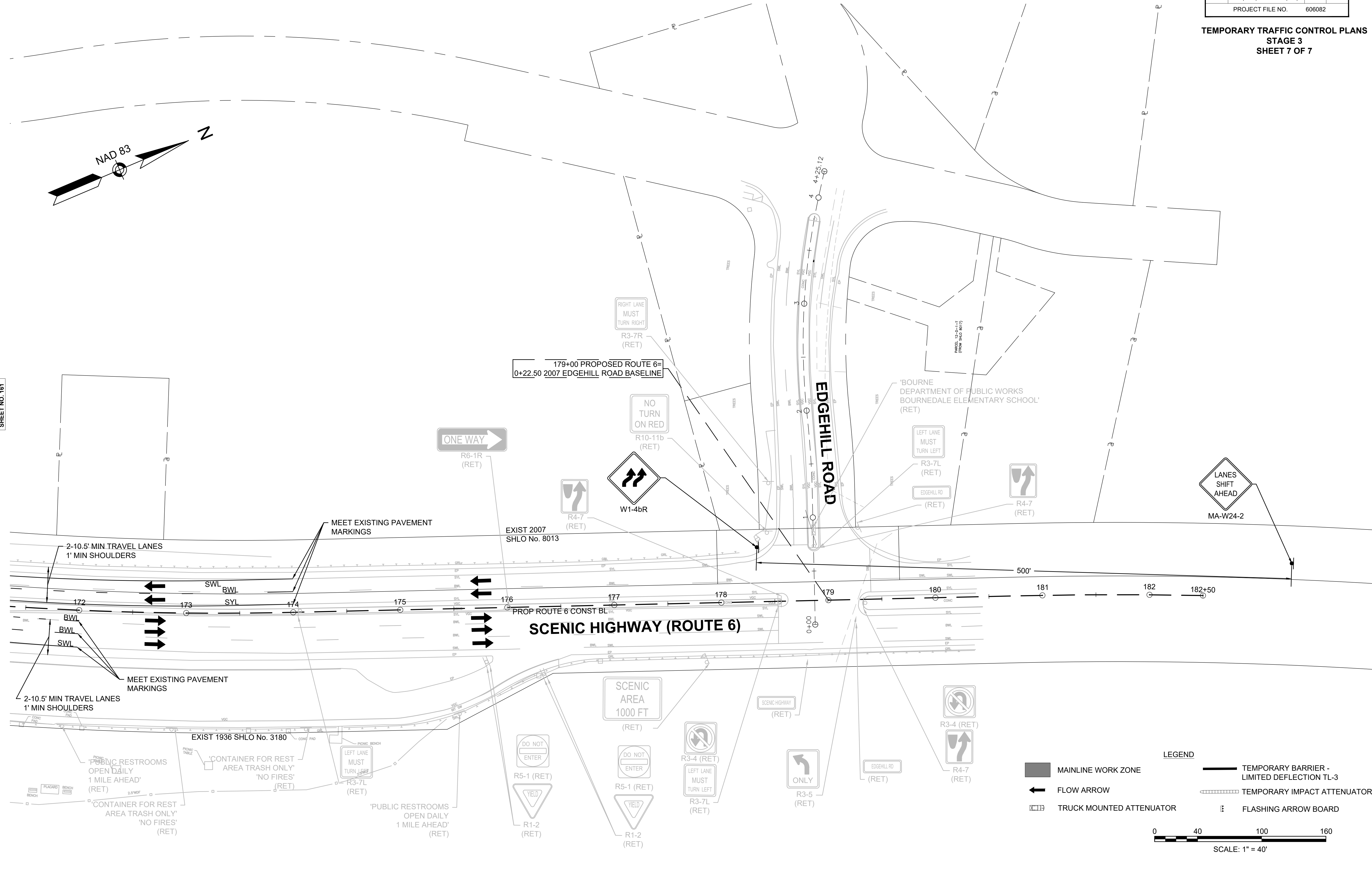
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	162	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 3  
SHEET 7 OF 7**



CONTINUED ON  
SHEET NO. 161



**LEGEND**

- MAINLINE WORK ZONE
- FLOW ARROW
- TRUCK MOUNTED ATTENUATOR
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- TEMPORARY IMPACT ATTENUATOR
- FLASHING ARROW BOARD

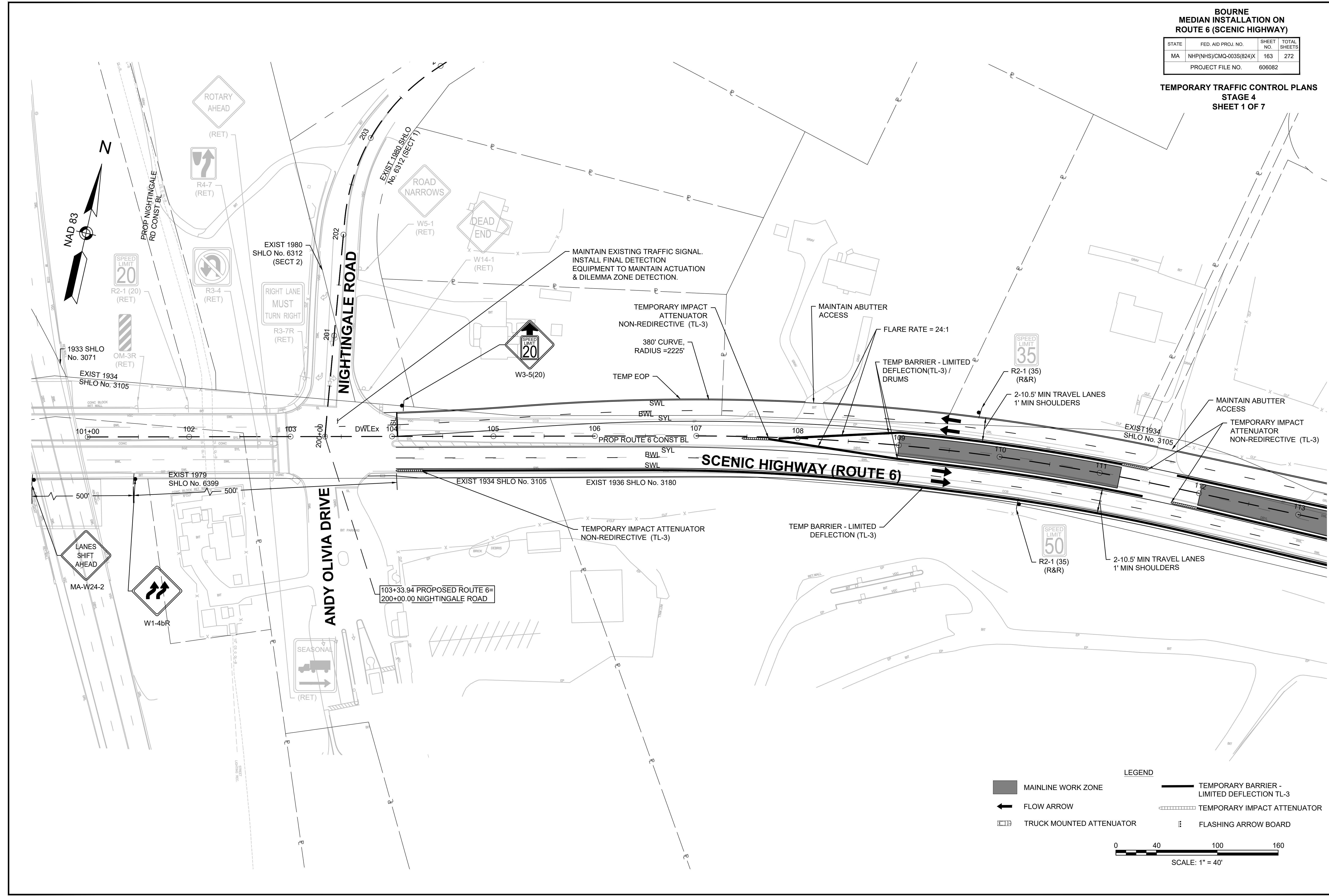
0 40 100 160  
SCALE: 1" = 40'



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	163	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 4  
SHEET 1 OF 7**



**LEGEND**

- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- TEMPORARY IMPACT ATTENUATOR
- FLASHING ARROW BOARD
- FLOW ARROW
- TRUCK MOUNTED ATTENUATOR

0 40 100 160  
SCALE: 1" = 40'

CONTINUED ON SHEET NO. 164

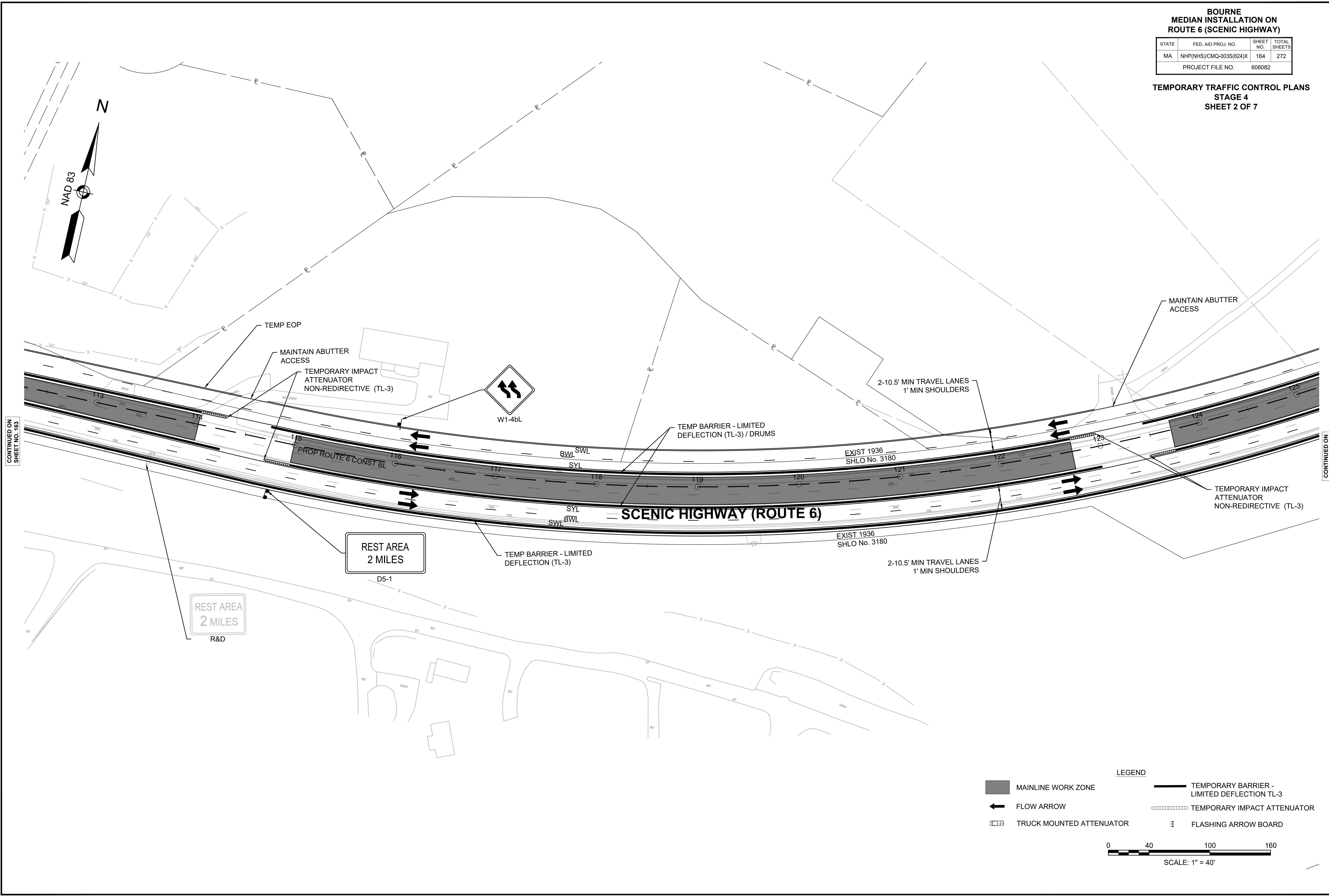


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	164	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 4  
SHEET 2 OF 7**

606082\_TR7(STAGE 4).DWG Plotted on 17-Mar-2025 10:42 AM



CONTINUED ON  
SHEET NO. 163

CONTINUED ON  
SHEET NO. 165

**LEGEND**

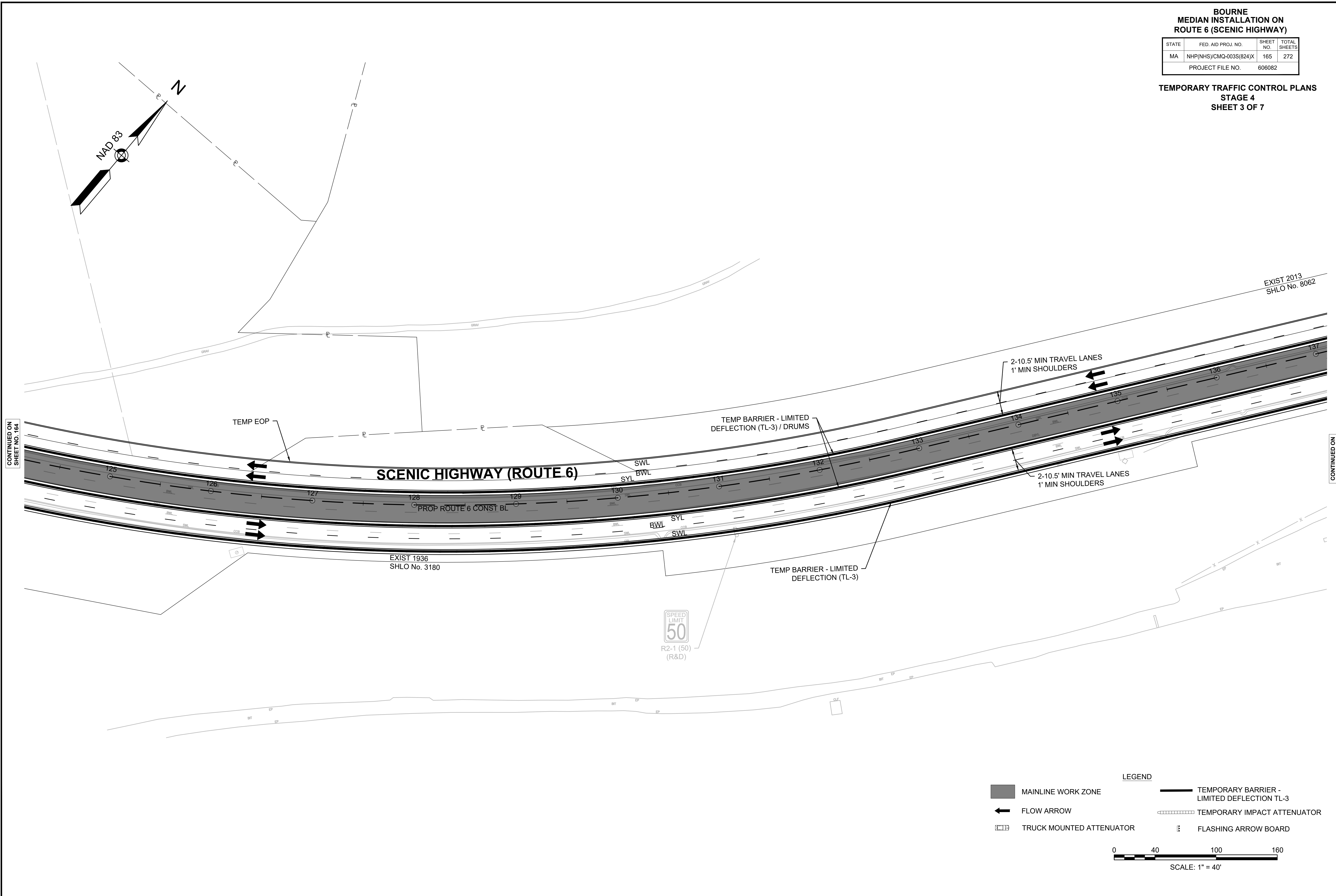
- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD

0      40      100      160  
SCALE: 1" = 40'

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	165	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 4  
SHEET 3 OF 7**



**LEGEND**

- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- TEMPORARY IMPACT ATTENUATOR
- TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD
- ← FLOW ARROW

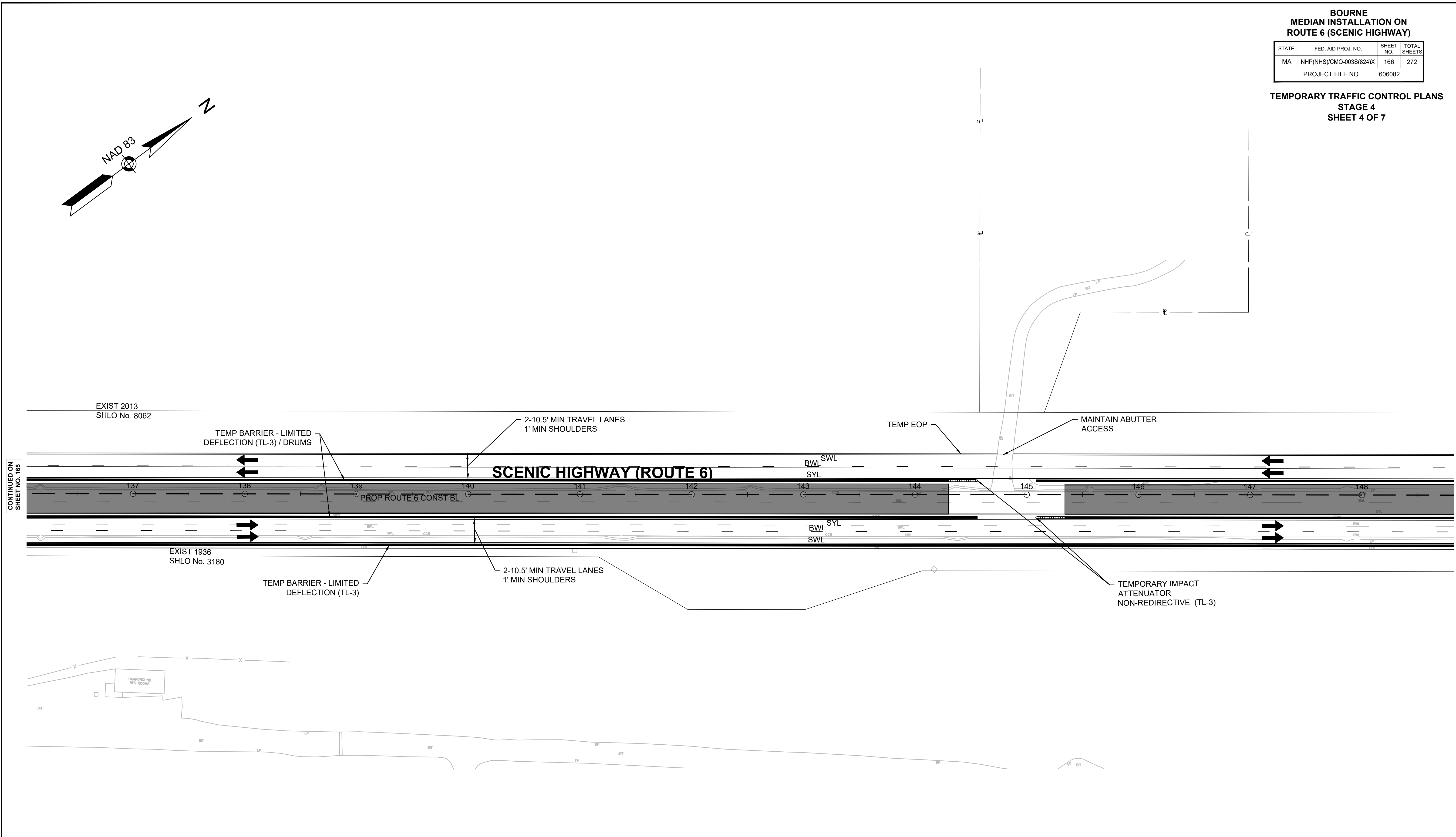
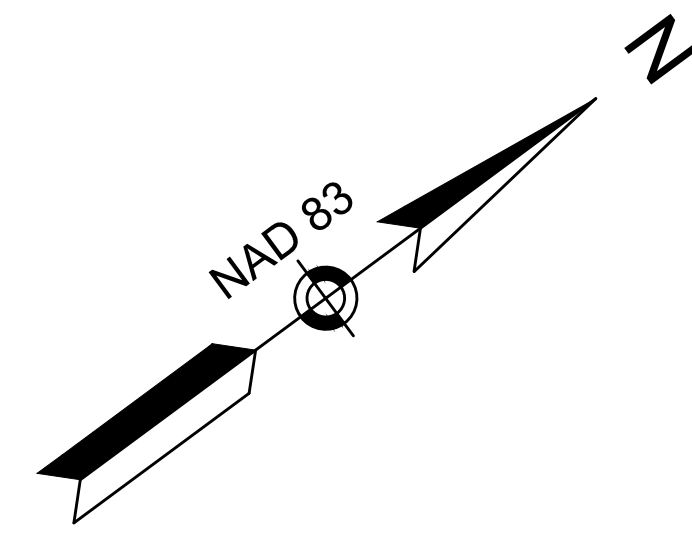
0 40 100 160  
SCALE: 1" = 40'



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	166	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 4  
SHEET 4 OF 7**



CONTINUED ON SHEET NO. 165

CONTINUED ON SHEET NO. 167

**LEGEND**

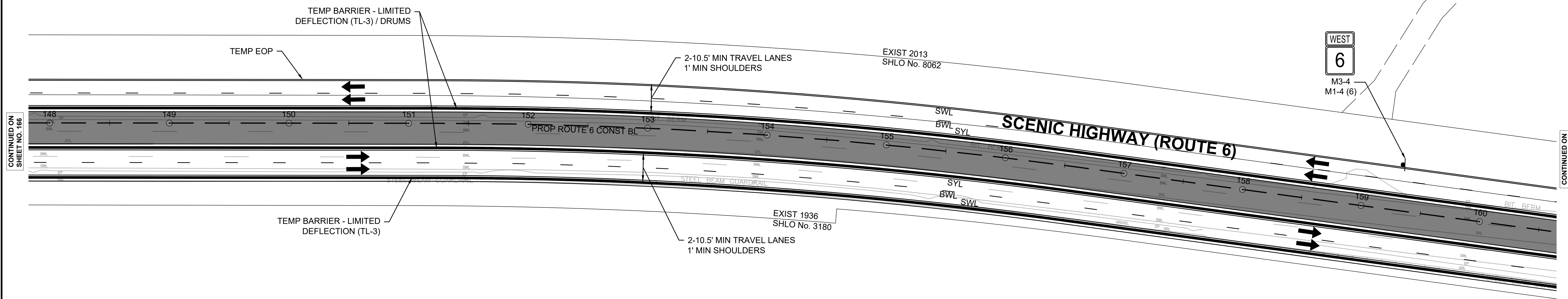
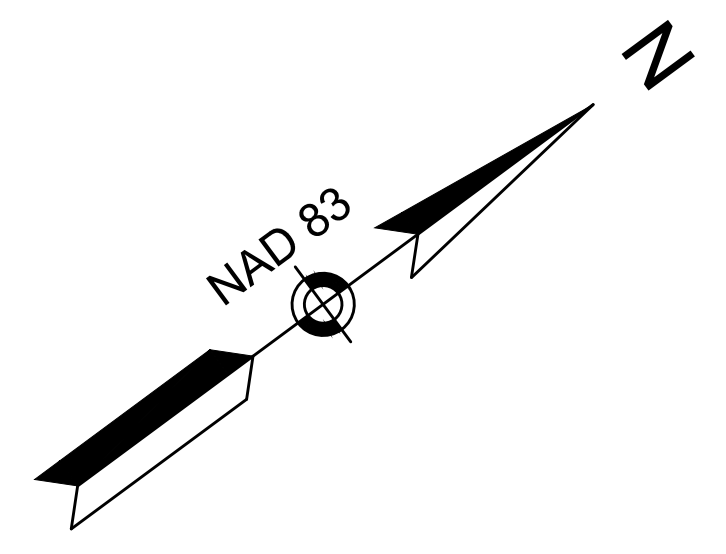
- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD

0      40      100      160  
SCALE: 1" = 40'

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	167	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 4  
SHEET 5 OF 7**



CONTINUED ON  
SHEET NO. 168

**LEGEND**

- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD

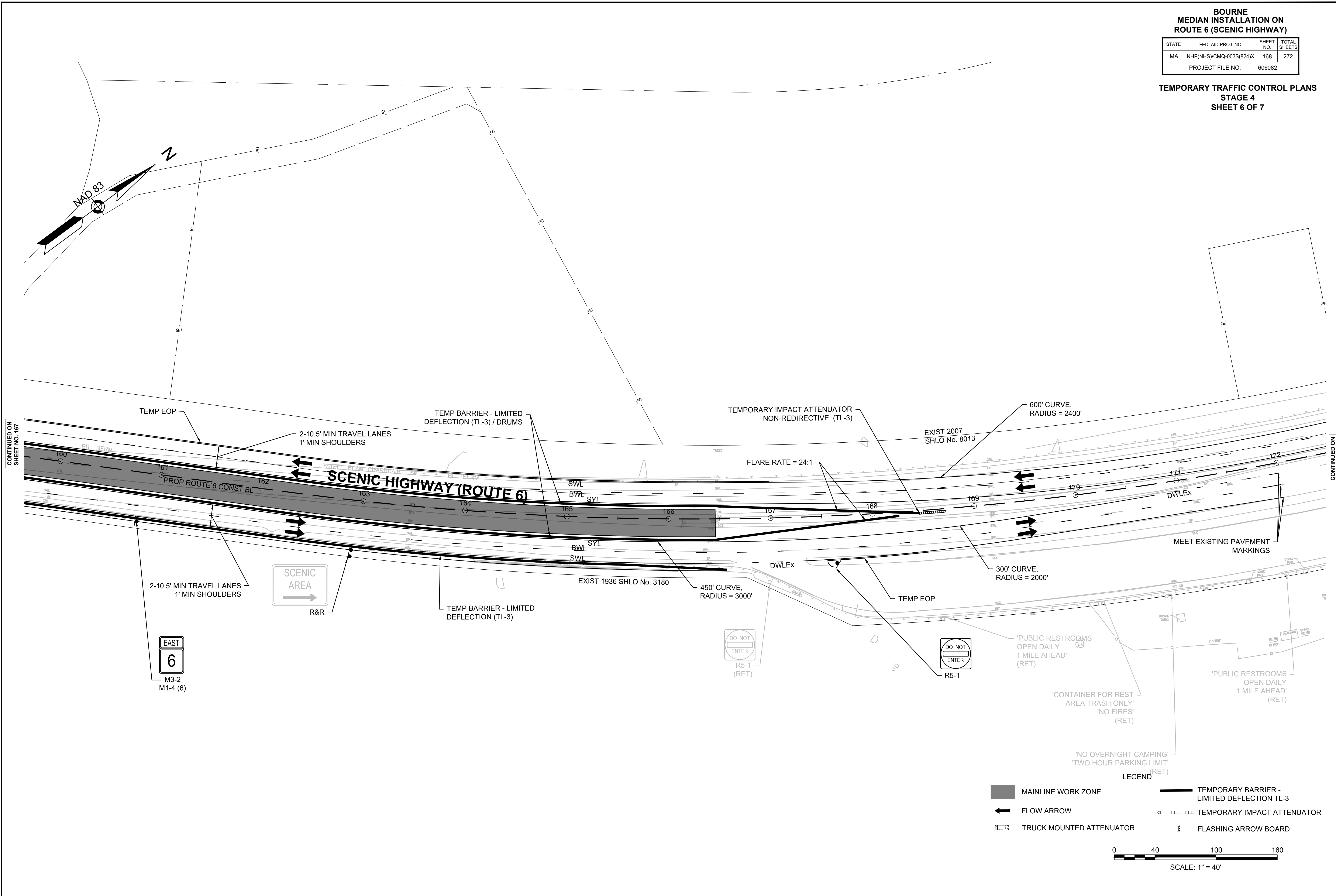
0 40 100 160  
SCALE: 1" = 40'



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	168	272
PROJECT FILE NO.		606082	

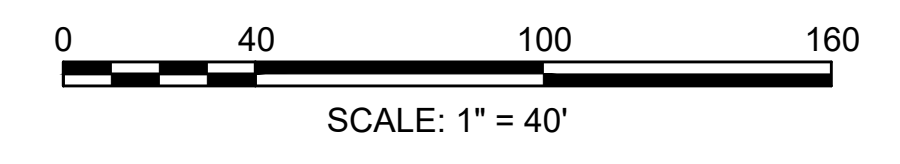
**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 4  
SHEET 6 OF 7**



CONTINUED ON  
SHEET NO. 167

CONTINUED ON  
SHEET NO. 169

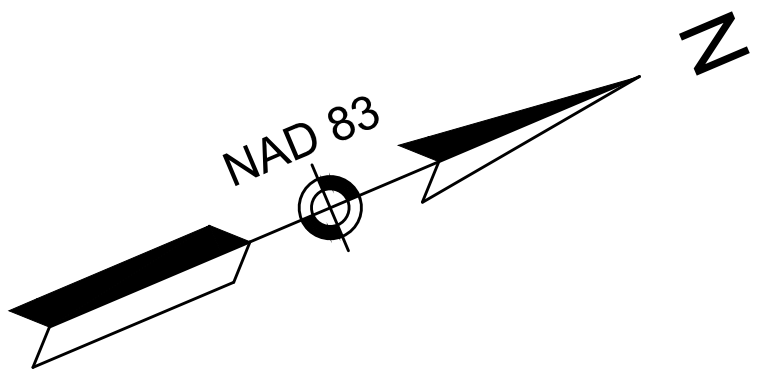
- LEGEND**
- MAINLINE WORK ZONE
  - TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
  - FLOW ARROW
  - TEMPORARY IMPACT ATTENUATOR
  - TMA TRUCK MOUNTED ATTENUATOR
  - FAB FLASHING ARROW BOARD



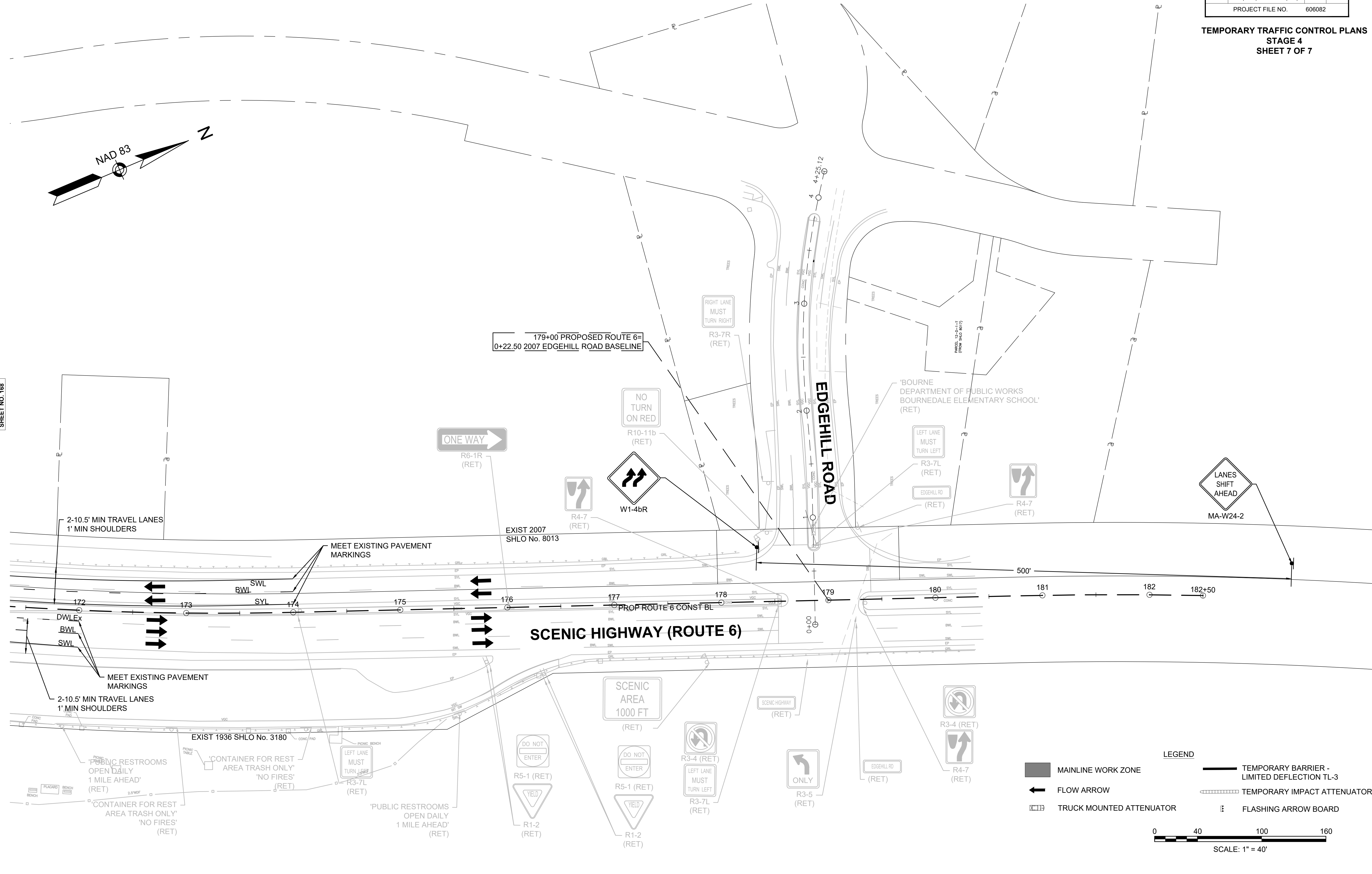
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	169	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 4  
SHEET 7 OF 7**



CONTINUED ON SHEET NO. 168



**LEGEND**

- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD

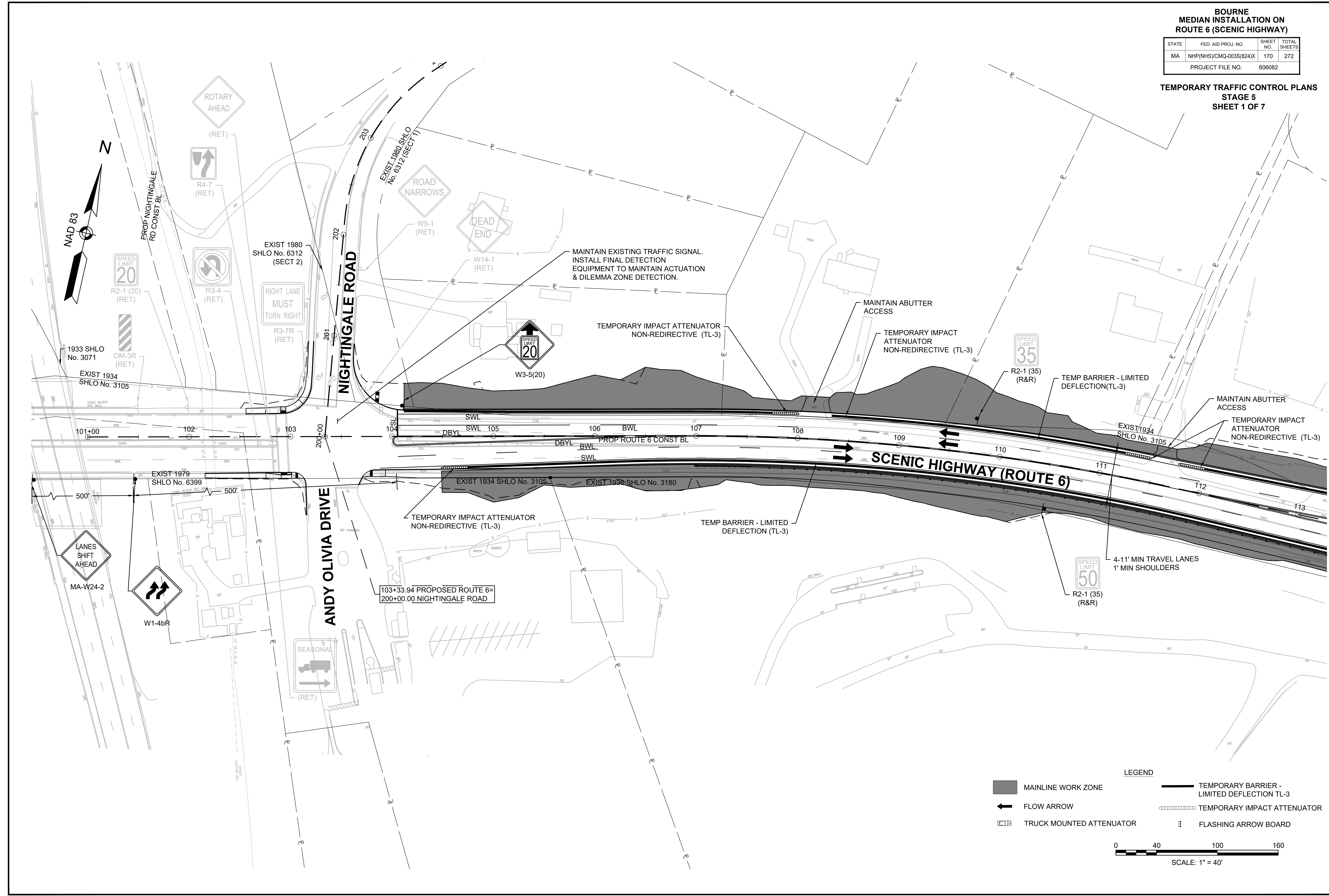
0 40 100 160  
SCALE: 1" = 40'



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	170	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 5  
SHEET 1 OF 7**



CONTINUED ON SHEET NO. 171

**LEGEND**

- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- TEMPORARY IMPACT ATTENUATOR
- FLASHING ARROW BOARD
- FLOW ARROW
- TRUCK MOUNTED ATTENUATOR

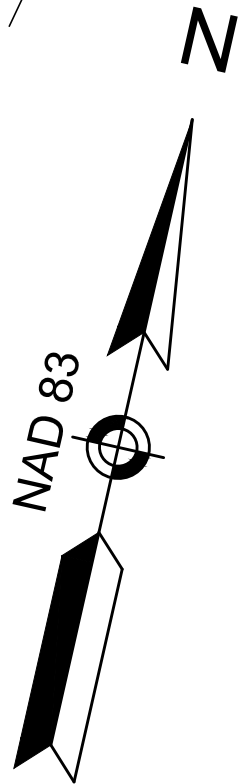
0 40 100 160  
SCALE: 1" = 40'



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

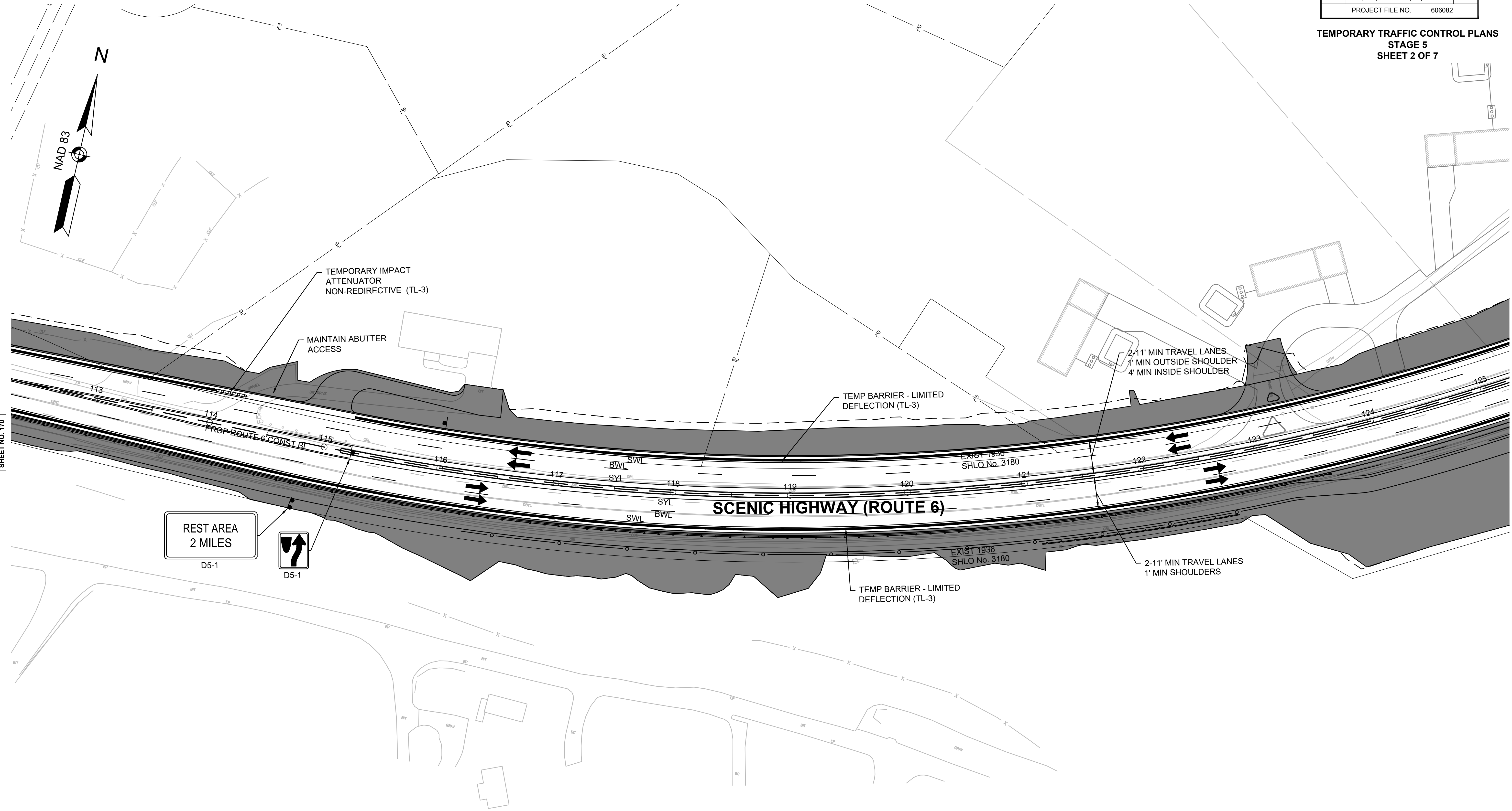
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	171	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 5  
SHEET 2 OF 7**



CONTINUED ON  
SHEET NO. 170

CONTINUED ON  
SHEET NO. 172



**LEGEND**

- MAINLINE WORK ZONE
- FLOW ARROW
- TRUCK MOUNTED ATTENUATOR
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- TEMPORARY IMPACT ATTENUATOR
- FLASHING ARROW BOARD

0 40 100 160  
SCALE: 1" = 40'



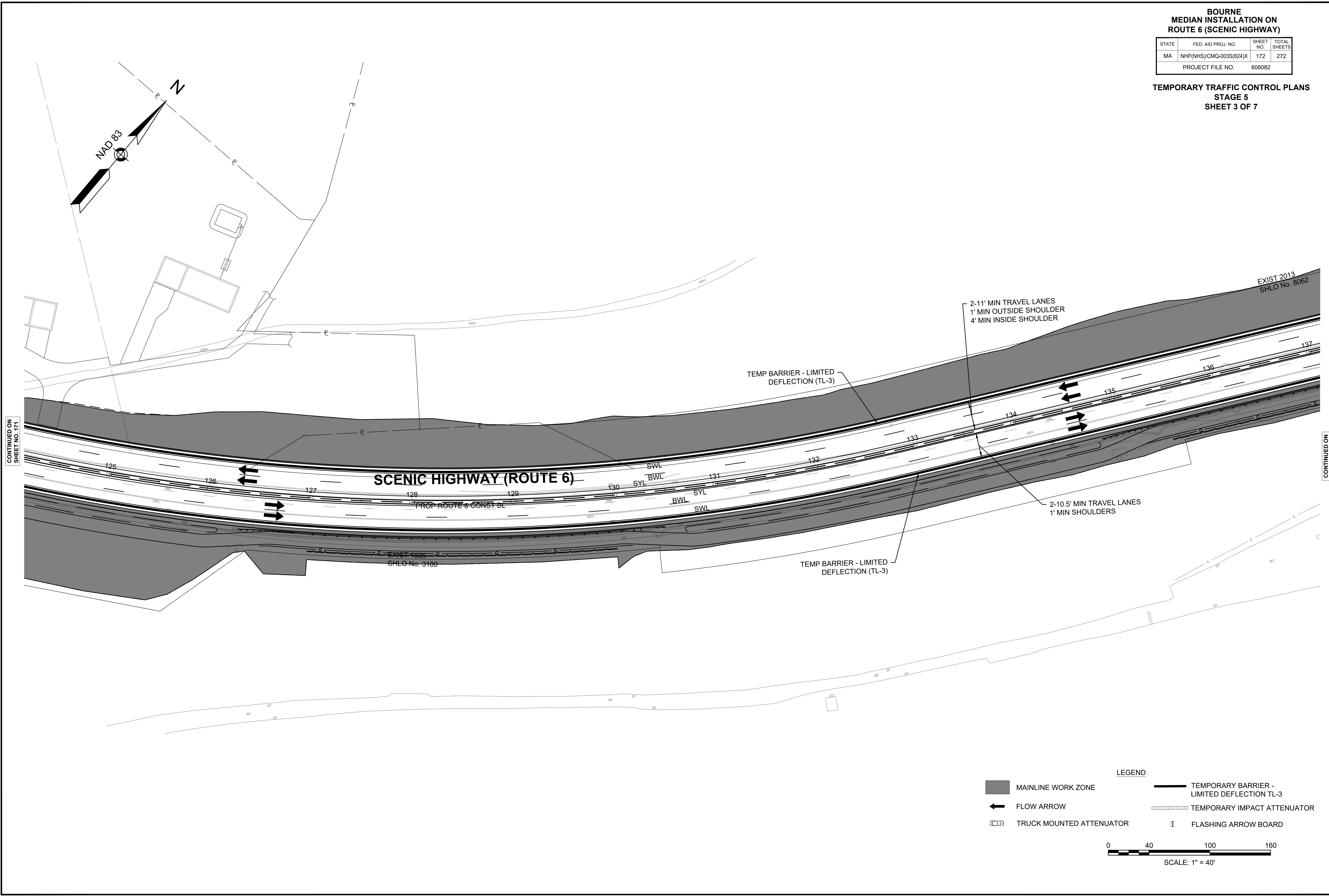
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	172	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 5  
SHEET 3 OF 7**

CONTINUED ON  
SHEET NO. 171

CONTINUED ON  
SHEET NO. 173



**LEGEND**

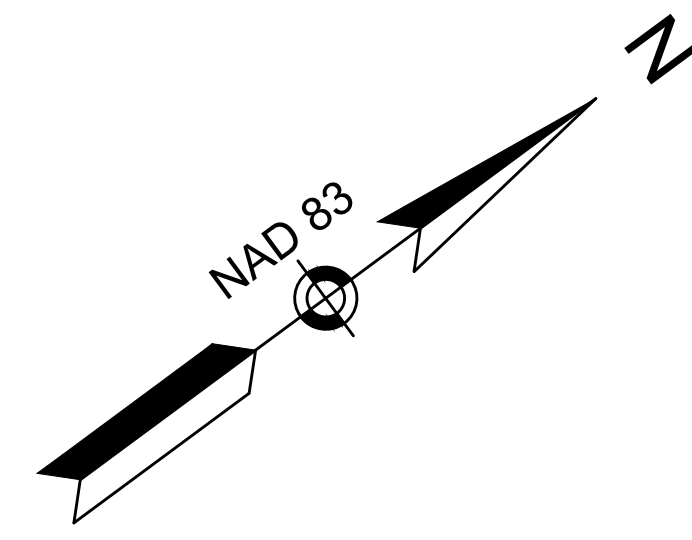
- MAINLINE WORK ZONE
- FLOW ARROW
- TRUCK MOUNTED ATTENUATOR
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- TEMPORARY IMPACT ATTENUATOR
- FLASHING ARROW BOARD

0 40 100 160  
SCALE: 1" = 40'

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

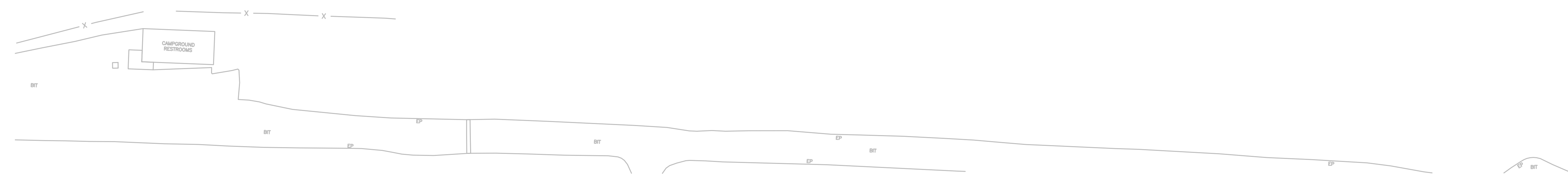
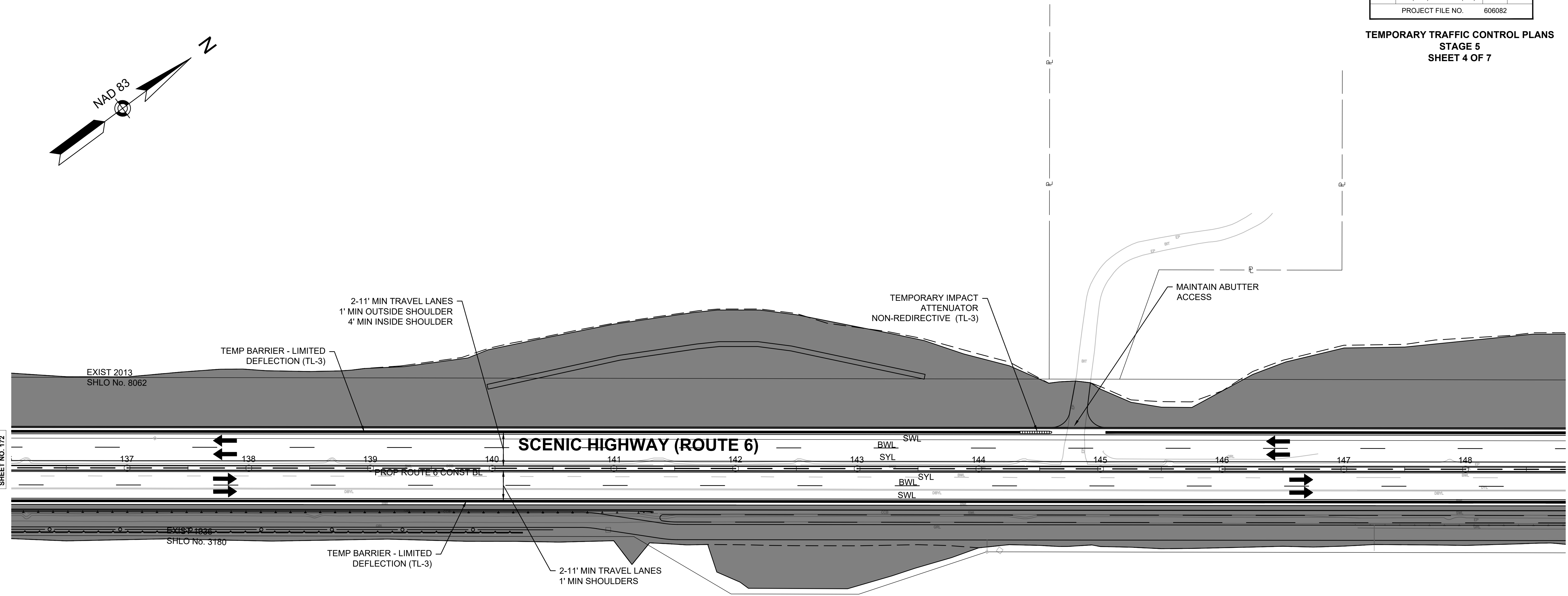
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	173	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 5  
SHEET 4 OF 7**



CONTINUED ON  
SHEET NO. 172

CONTINUED ON  
SHEET NO. 174



**LEGEND**

- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD

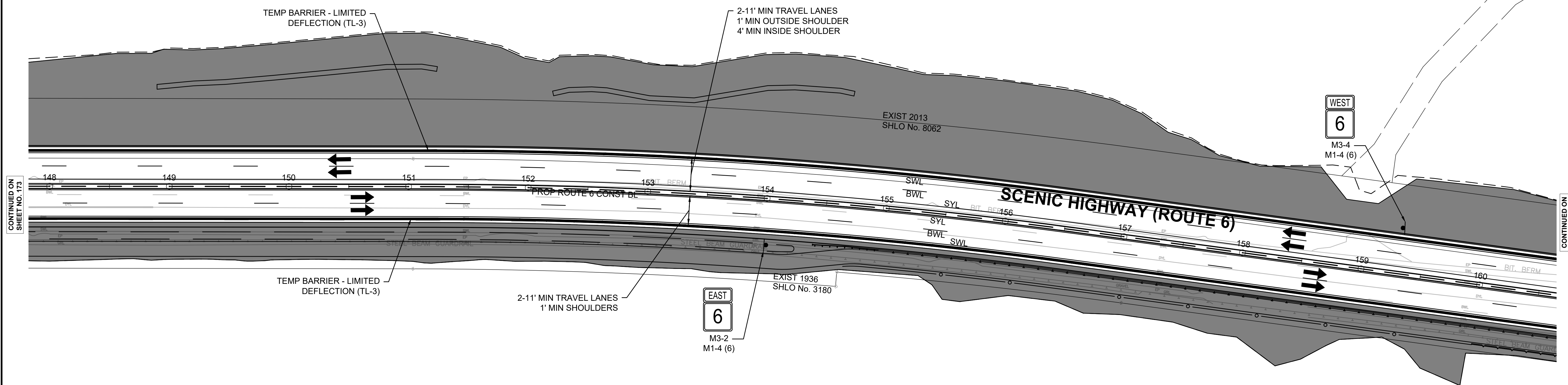
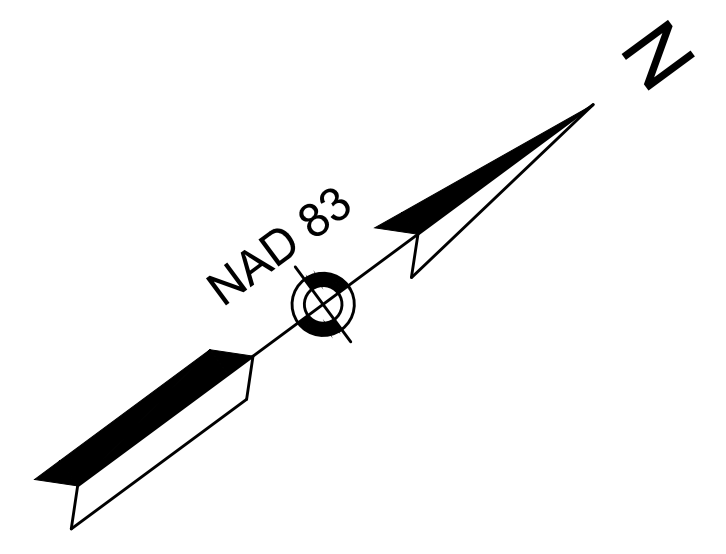
0      40      100      160  
SCALE: 1" = 40'



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	174	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 5  
SHEET 5 OF 7**



CONTINUED ON  
SHEET NO. 173

CONTINUED ON  
SHEET NO. 175

**LEGEND**

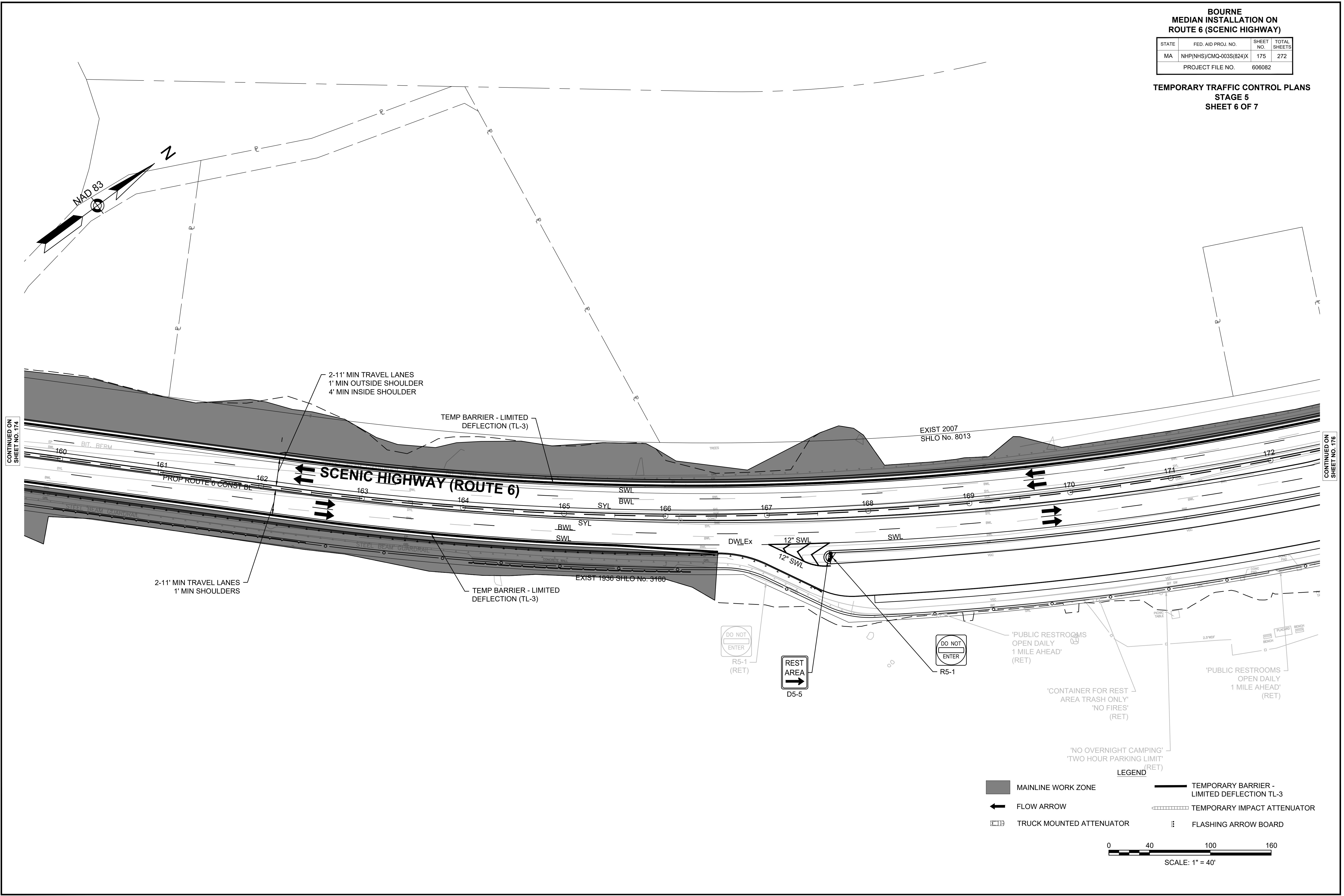
- MAINLINE WORK ZONE
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- FLOW ARROW
- TEMPORARY IMPACT ATTENUATOR
- TRUCK MOUNTED ATTENUATOR
- FLASHING ARROW BOARD

0 40 100 160  
SCALE: 1" = 40'

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	175	272
PROJECT FILE NO.		606082	

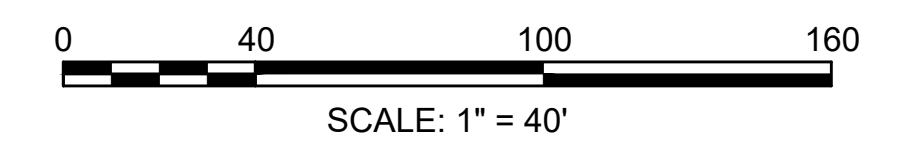
**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 5  
SHEET 6 OF 7**



CONTINUED ON  
SHEET NO. 174

CONTINUED ON  
SHEET NO. 176

- LEGEND**
- MAINLINE WORK ZONE
  - TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
  - FLOW ARROW
  - TEMPORARY IMPACT ATTENUATOR
  - DO NOT ENTER TRUCK MOUNTED ATTENUATOR
  - DO NOT ENTER FLASHING ARROW BOARD



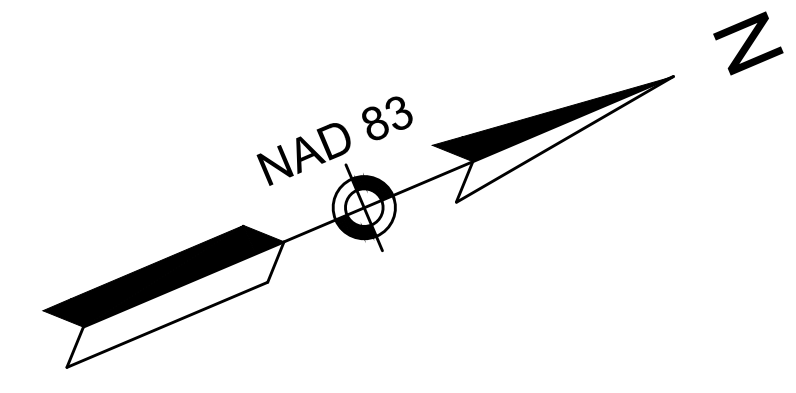


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

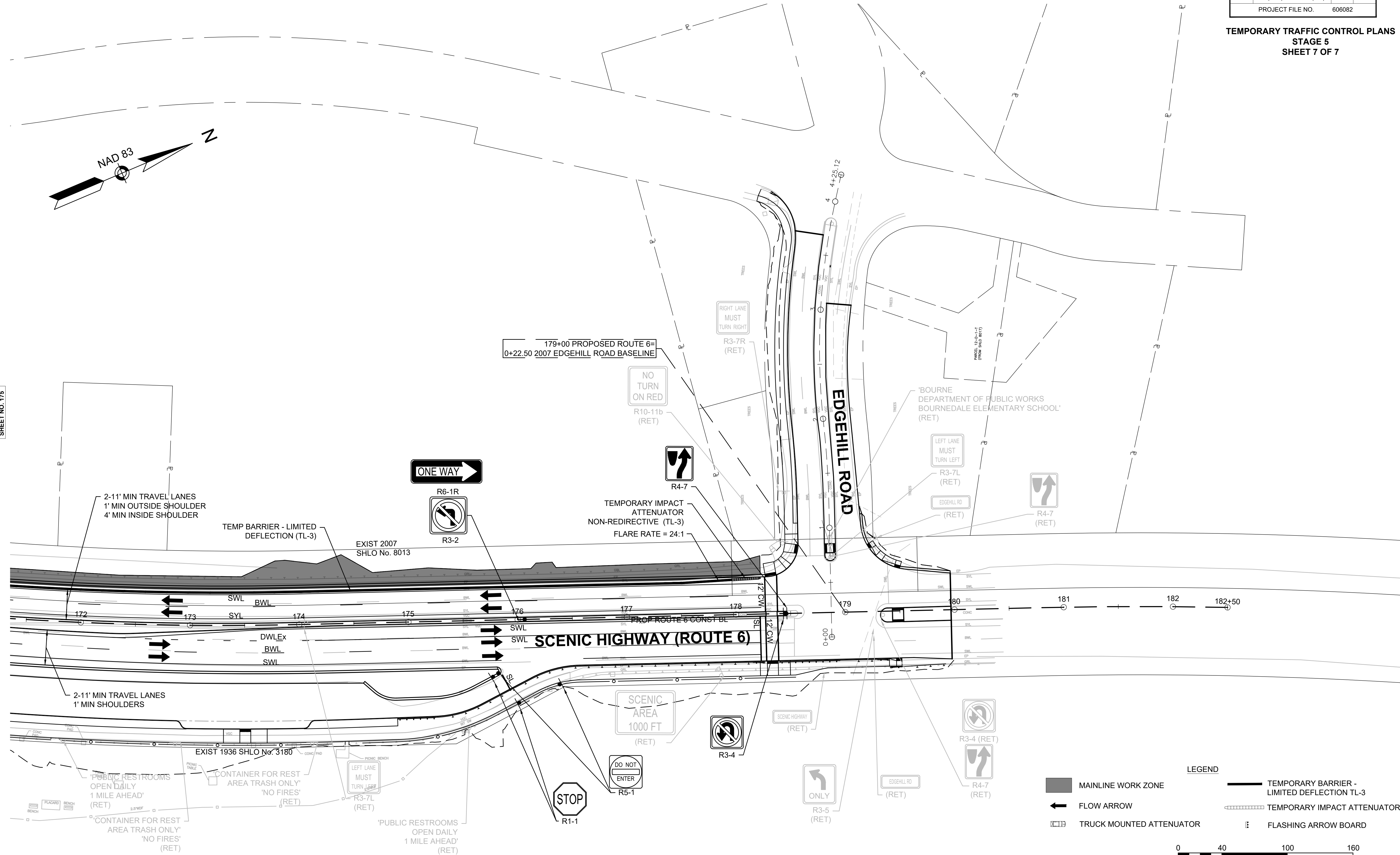
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	176	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
STAGE 5  
SHEET 7 OF 7**

606082\_TR6(STAGE 5).DWG Plotted on 17-Mar-2025 10:45 AM



CONTINUED ON  
SHEET NO. 175



**LEGEND**

- MAINLINE WORK ZONE
- FLOW ARROW
- TRUCK MOUNTED ATTENUATOR
- TEMPORARY BARRIER - LIMITED DEFLECTION TL-3
- TEMPORARY IMPACT ATTENUATOR
- FLASHING ARROW BOARD

0 40 100 160  
SCALE: 1" = 40'

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	177	272
PROJECT FILE NO.		606082	

**TEMPORARY TRAFFIC CONTROL PLANS  
SIGN SUMMARY**

## TEMPORARY TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			COLOR		
	WIDTH (IN)	HEIGHT (IN)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK-GROUND	LEGEND	BORDER
MA-R2-10A	48	36		②	②	②	FLUORESCENT ORANGE/WHITE	BLACK	BLACK
MA-R2-10E	36	48		②	②	②	FLUORESCENT ORANGE/WHITE		
W1-4bL	36	36		①	①	①	FLUORESCENT ORANGE		
W1-4bR	36	36							
W4-2L	36	36							
W4-2R	36	36							
W5-1	36	36							
W8-1	36	36							
W8-15	36	36							
W8-15p	24	18							
W8-24	36	36							
W13-1P (40)*	18	18							
W13-1P (45)*	18	18							
W20-1A	36	36							
W20-4	36	36		▼	▼	▼	▼	▼	▼

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			COLOR		
	WIDTH (IN)	HEIGHT (IN)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK-GROUND	LEGEND	BORDER
W20-5L	36	36		①	①	①	FLUORESCENT ORANGE	BLACK	BLACK
W20-5R	36	36		①	①	①			
MA-W20-7b	36	36		②	②	②			
W21-5A	36	36		①	①	①			
MA-W24-2	36	36		①	①	①	▼	▼	▼

① SEE MUTCD 2009 EDITION, 2004 STD. HWY. SIGNS (SHS), 2012 SHS SUPPLEMENT, AND SECTION M9.30.0 TYPE III OF THE MASSDOT STANDARD SPECIFICATION FOR TEXT DIMENSIONS.  
 ② SEE MASSDOT STANDARD SIGN BOOK, CURRENT EDITION, FOR TEXT DIMENSIONS.

**\*REGULATORY SPEED LIMIT SIGNS MAY BE INSTALLED INSTEAD OF ADVISORY SPEED SIGNS PENDING MASSDOT APPROVAL OF TEMPORARY SPEED LIMIT REGULATION.**

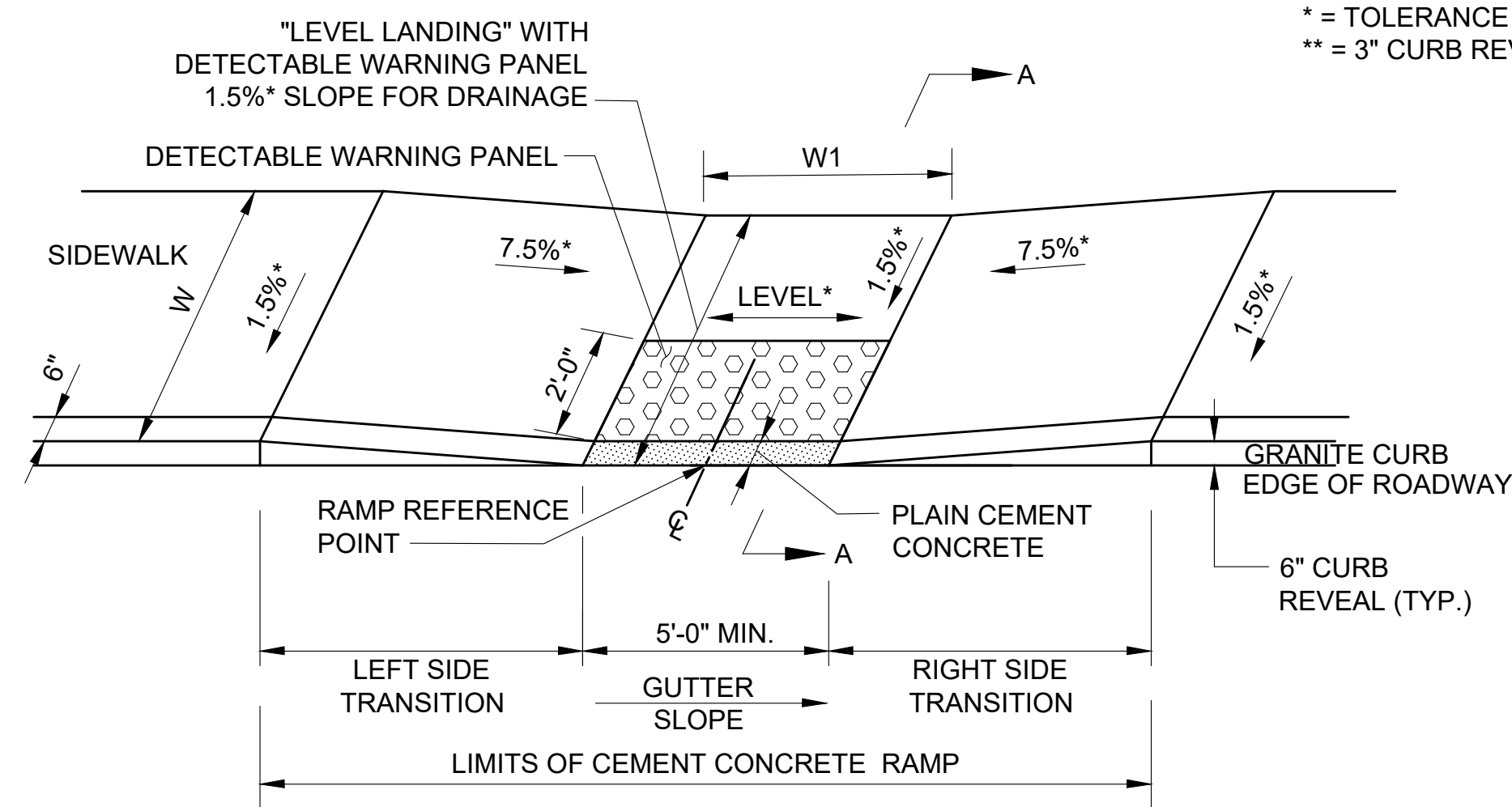


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

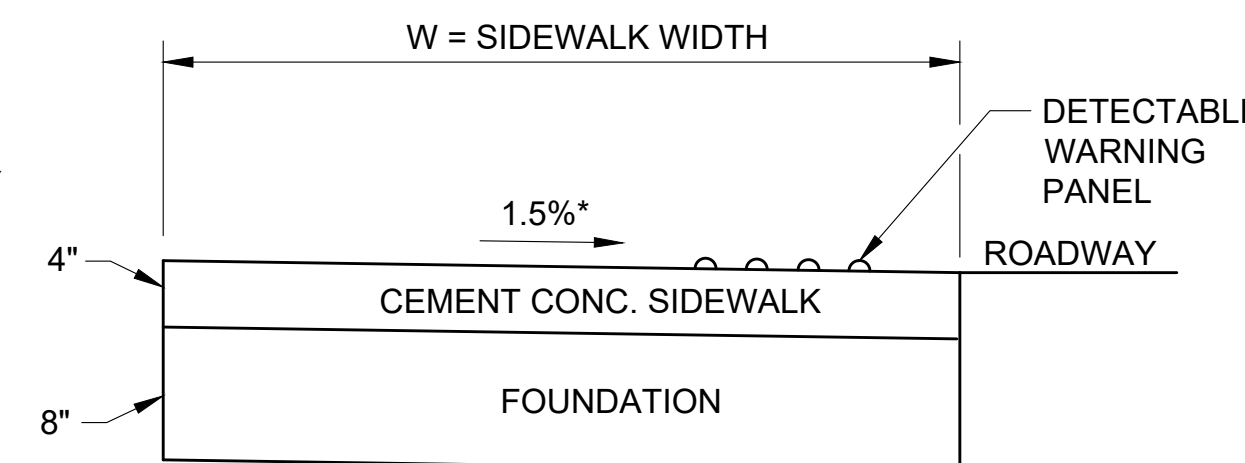
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	178	272
PROJECT FILE NO.		606082	

**PEDESTRIAN CURB RAMP AND DRIVEWAY DETAILS  
SHEET 1 OF 2**

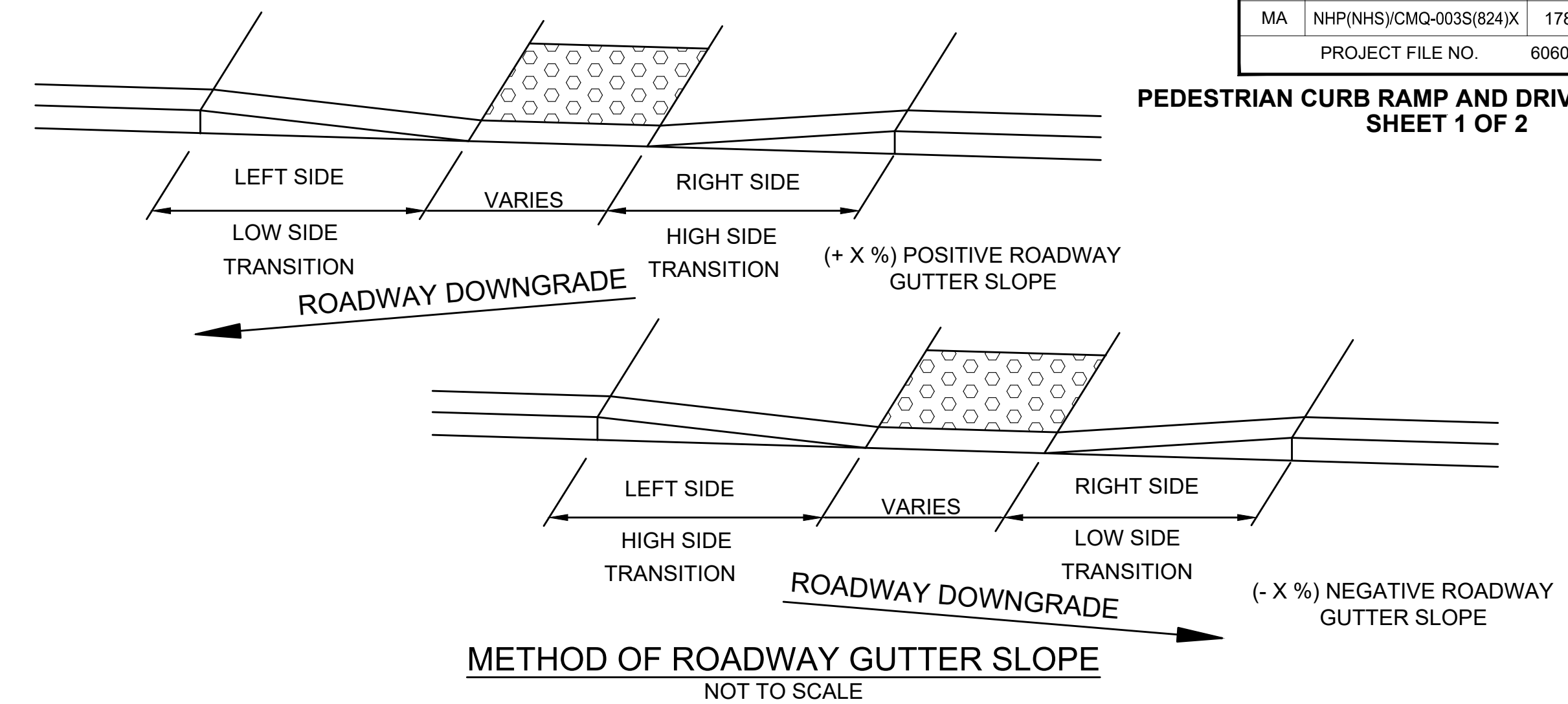
**LEGEND**  
W = SIDEWALK WIDTH  
HSL = HIGH SIDE TRANSITION LENGTH  
\* = TOLERANCE FOR CONSTRUCTION ± 0.5%  
\*\* = 3" CURB REVEAL



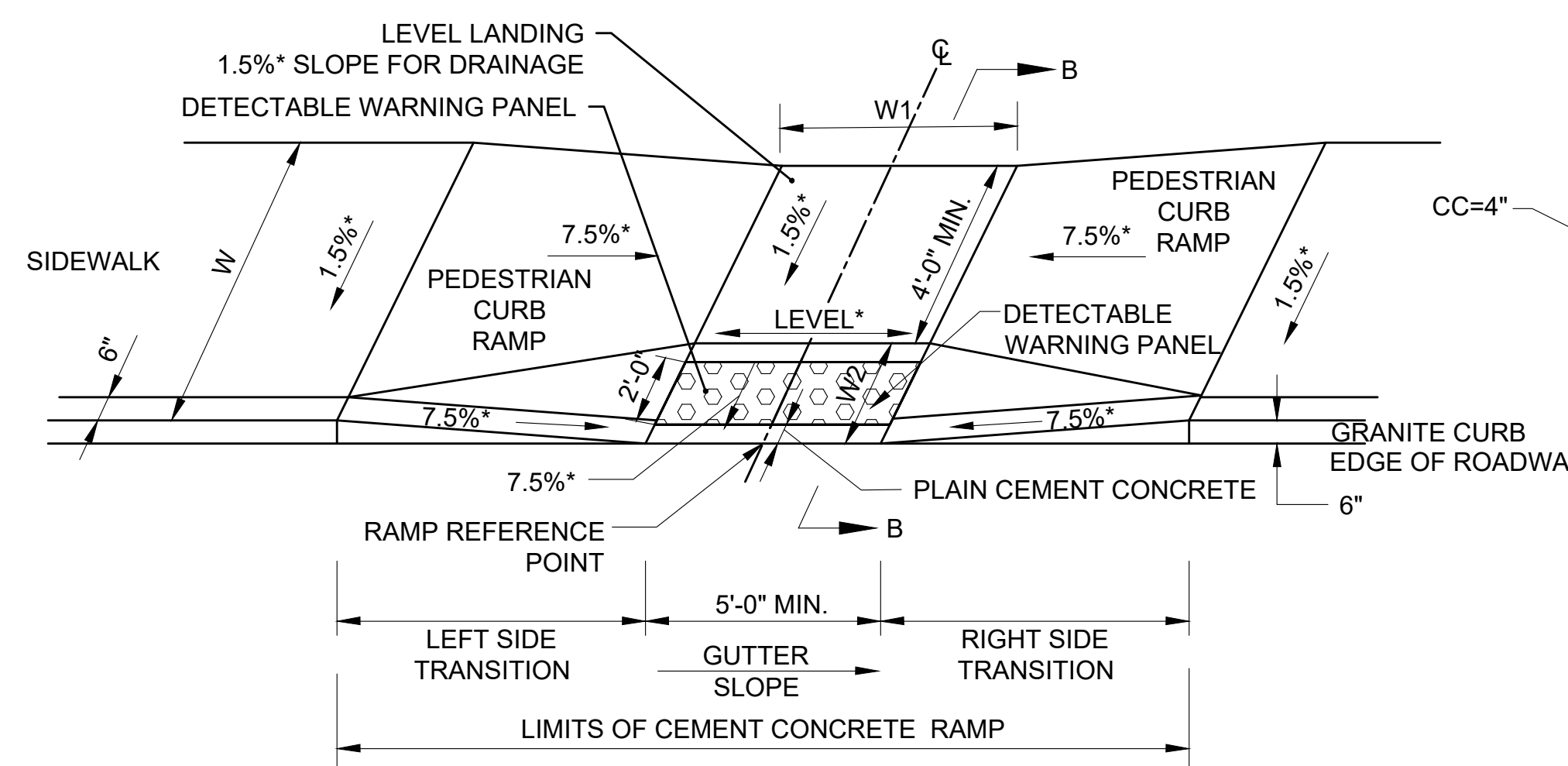
**PEDESTRIAN CURB RAMP TYPE A**  
NOT TO SCALE



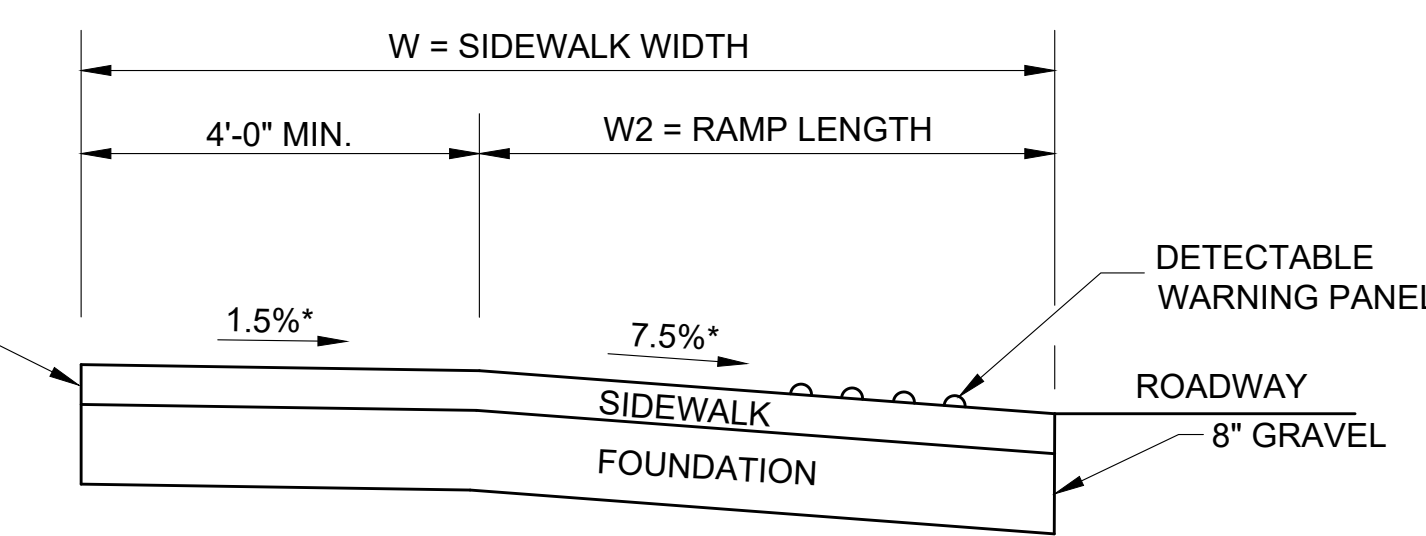
**SECTION A-A**



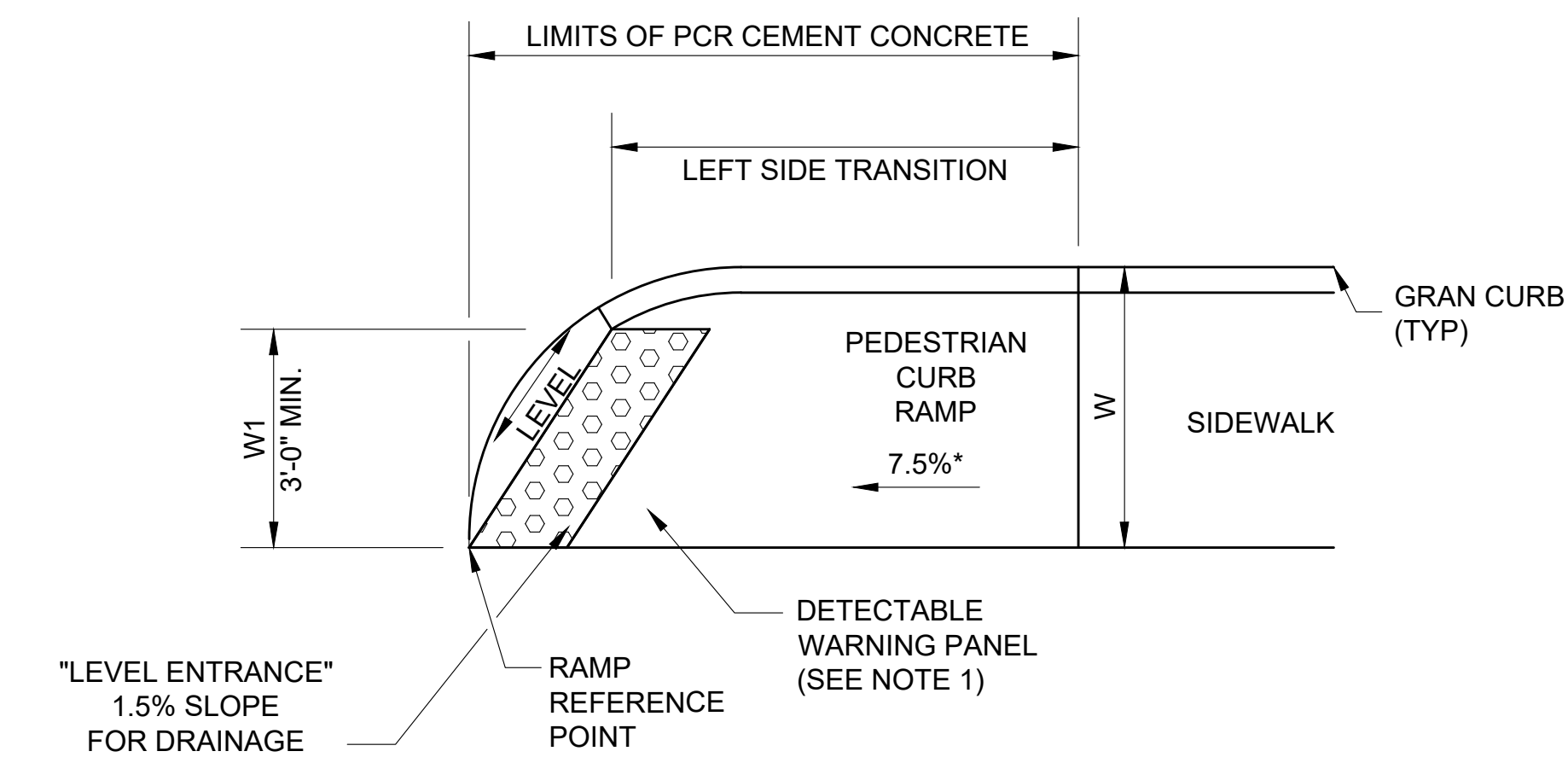
**METHOD OF ROADWAY GUTTER SLOPE**  
NOT TO SCALE



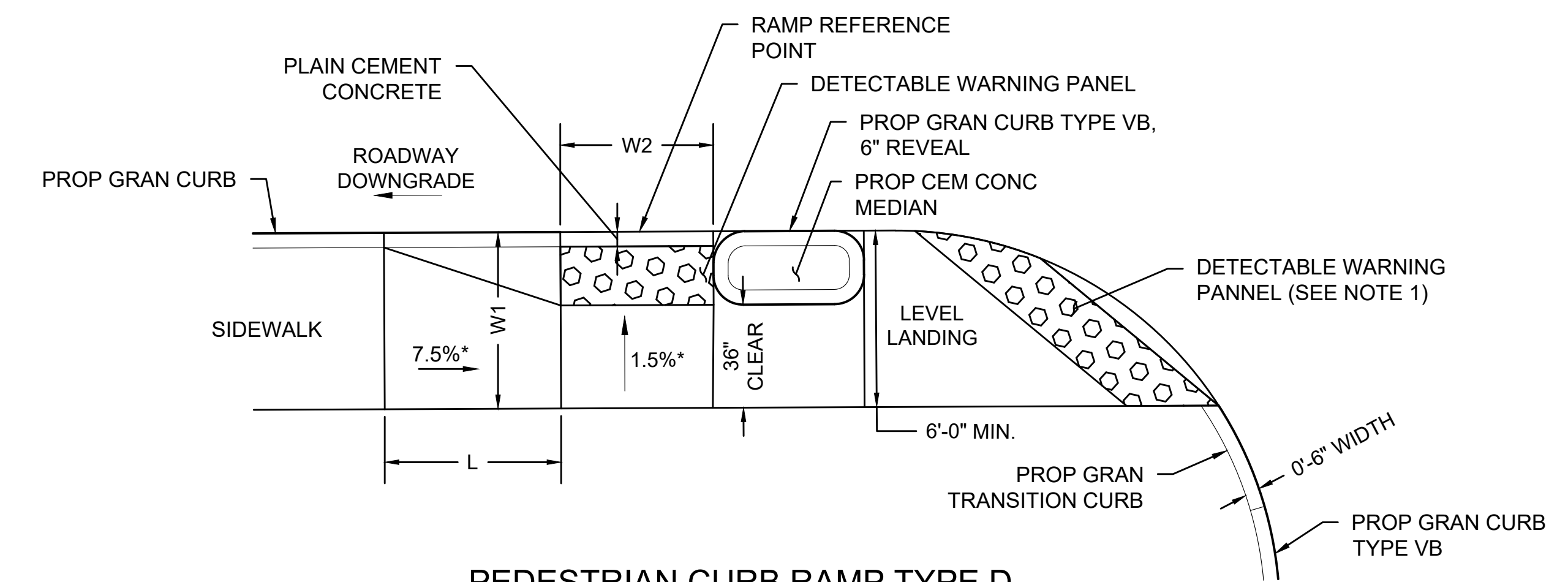
**PEDESTRIAN CURB RAMP TYPE B**  
NOT TO SCALE



**SECTION B-B**



**PEDESTRIAN CURB RAMP TYPE C**  
NOT TO SCALE



**PEDESTRIAN CURB RAMP TYPE D**  
NOT TO SCALE

**NOTES**  
1. IF LEVEL ENTRANCE IS LESS THAN 5' WIDE, DETECTABLE WARNING PANEL IS ROTATED TO BE PERPENDICULAR TO THE CURB OPENING

\* TOLERANCE FOR CONSTRUCTION ± 0.5%  
\*\* SIDE FLARE SLOPES SHALL BE 4.5% MAX FOR PCR 5

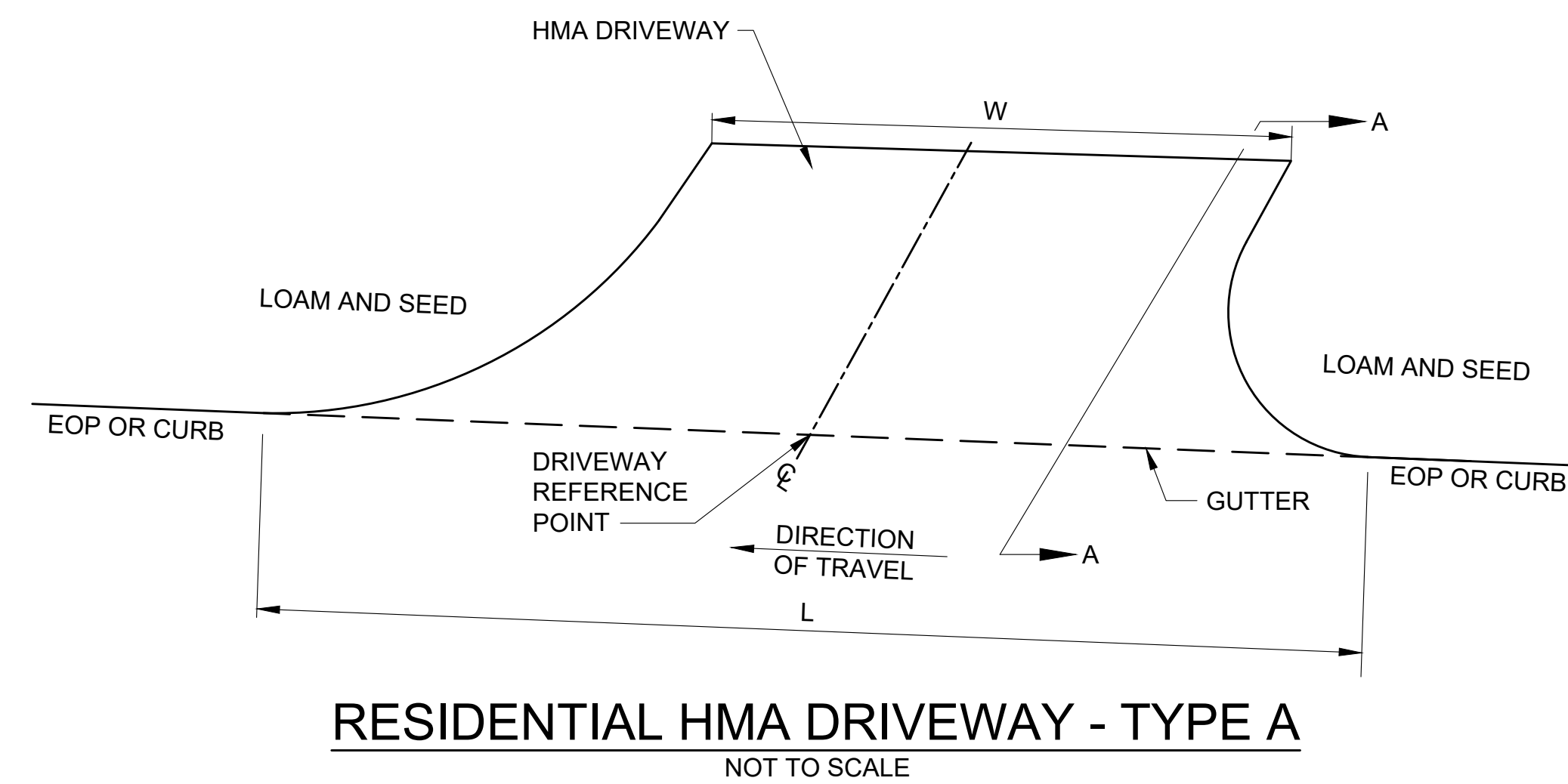
PCR #	TYPE	RAMP REFERENCE POINT			WIDTH OF SIDEWALK (W)	RAMP OPENING (W1)	ROADWAY GUTTER SLOPE (+/-)	TRANSITION LENGTH	
		BASELINE	STATION	OFFSET				LEFT SIDE	RIGHT SIDE
1	A	ROUTE 6	102+92.87	22.69' LT	6.50'	5.00'	4.42%	6'-6"	15'-0"
4	C	ROUTE 6	103+71.34	39.05' RT	7.30'	6.00'	-4.73%	15'-0"	-
5**	A	ROUTE 6	173+50.00	94.82' RT	13.00'	10.00'	-2.68%	15'-0"	15'-0"
6	A	ROUTE 6	178+32.61	43.00' RT	11.00'	10.00'	-2.83%	11'-0"	6'-6"
7	B	ROUTE 6	179+48.40	43.00' RT	7.50'	5.00'	-2.83%	-	6'-6"
8	A	ROUTE 6	178+32.58	34.32' LT	10.00'	10.00'	2.04%	-	11'-0"
9	A	2007 EDGEHILL RD	0+82.19	29.35' LT	10.00'	10.00'	0.51%	7'-8"	6'-6"
10	B	2007 EDGEHILL RD	0+81.96	35.05' RT	6.50'	5.00'	-1.73%	-	6'-6"
11	B	ROUTE 6	179+48.19	39.83' LT	6.50'	5.00'	2.83%	11'-0"	-

PCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK (W1)	WIDTH OF SECONDARY RAMP (W2)	ROADWAY GUTTER SLOPE	TRANSITION LENGTH (L)
	BASELINE	STATION	OFFSET				
2	ROUTE 6	102+93.31	35.26' RT	6.00'	5.00'	-4.42%	15.00'
3	ROUTE 6	103+13.22	41.24' RT	6.00'	-	-5.34%	-

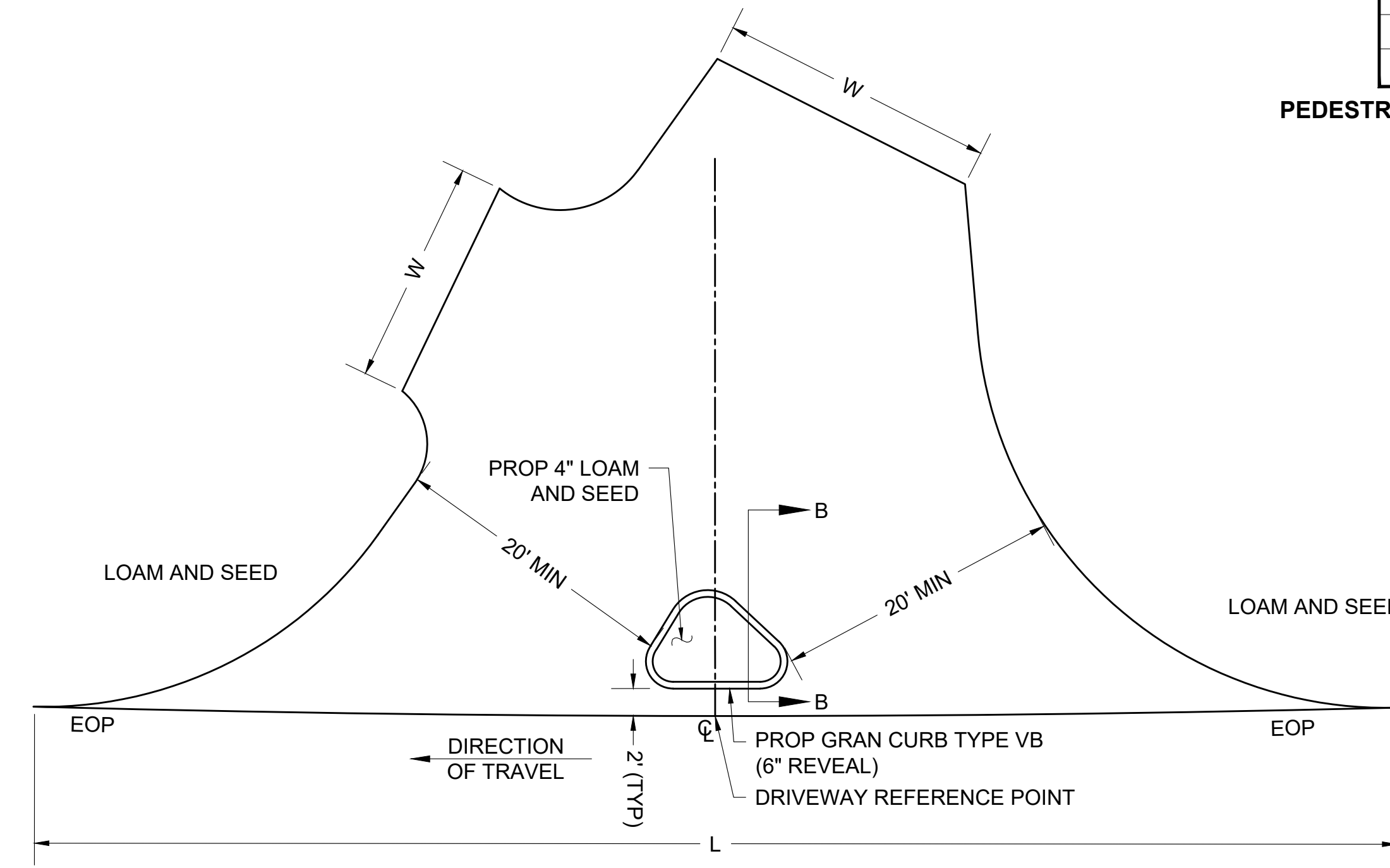
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	179	272
PROJECT FILE NO.		606082	

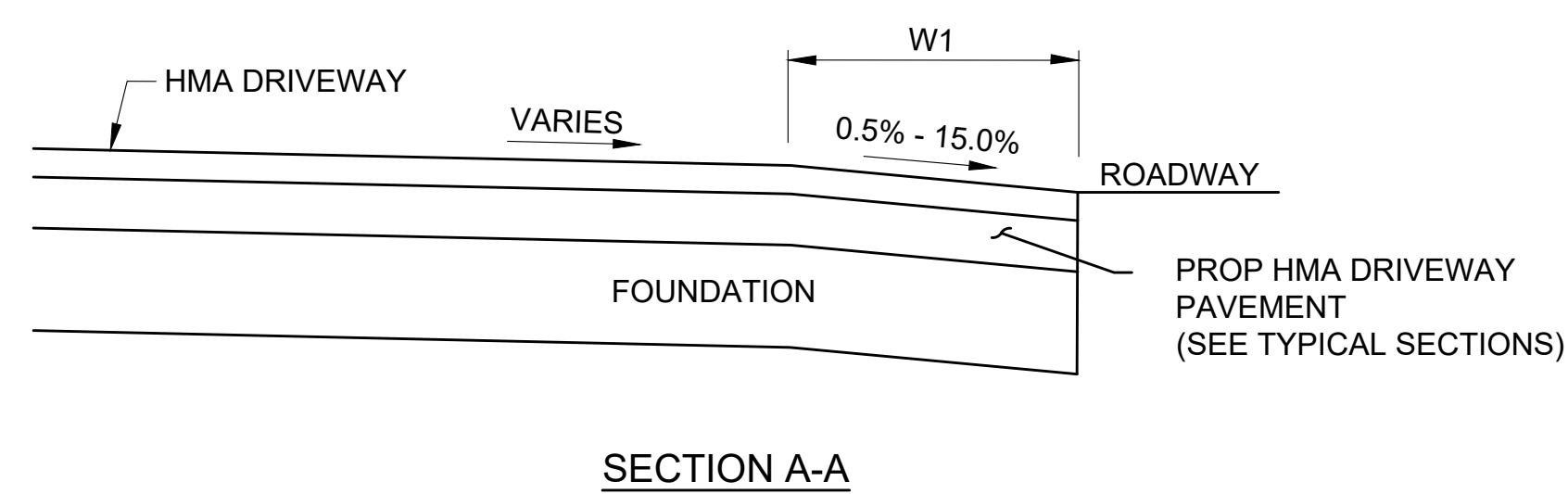
**PEDESTRIAN CURB RAMP AND DRIVEWAY DETAILS  
SHEET 2 OF 2**



**RESIDENTIAL HMA DRIVEWAY - TYPE A**  
NOT TO SCALE

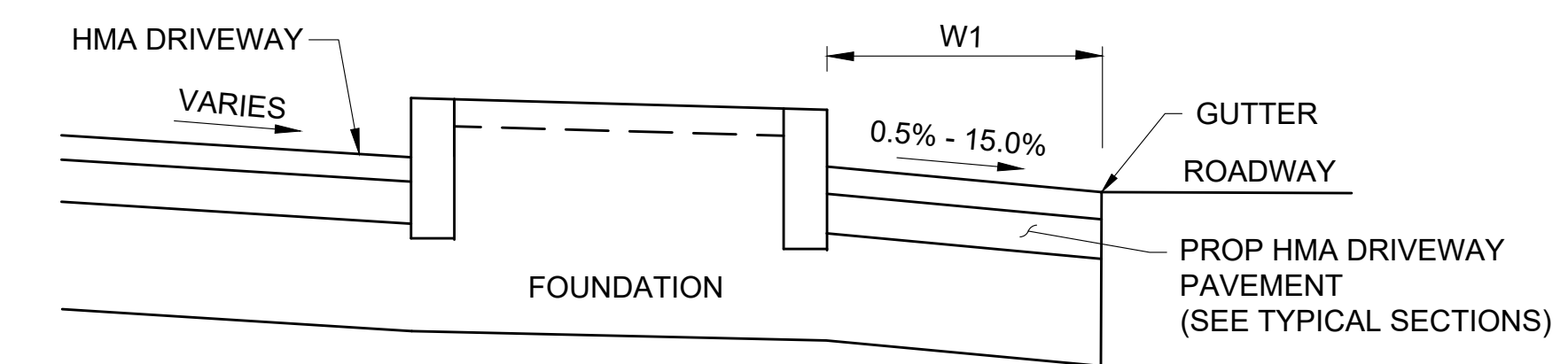


**RESIDENTIAL HMA DRIVEWAY - TYPE B**  
NOT TO SCALE



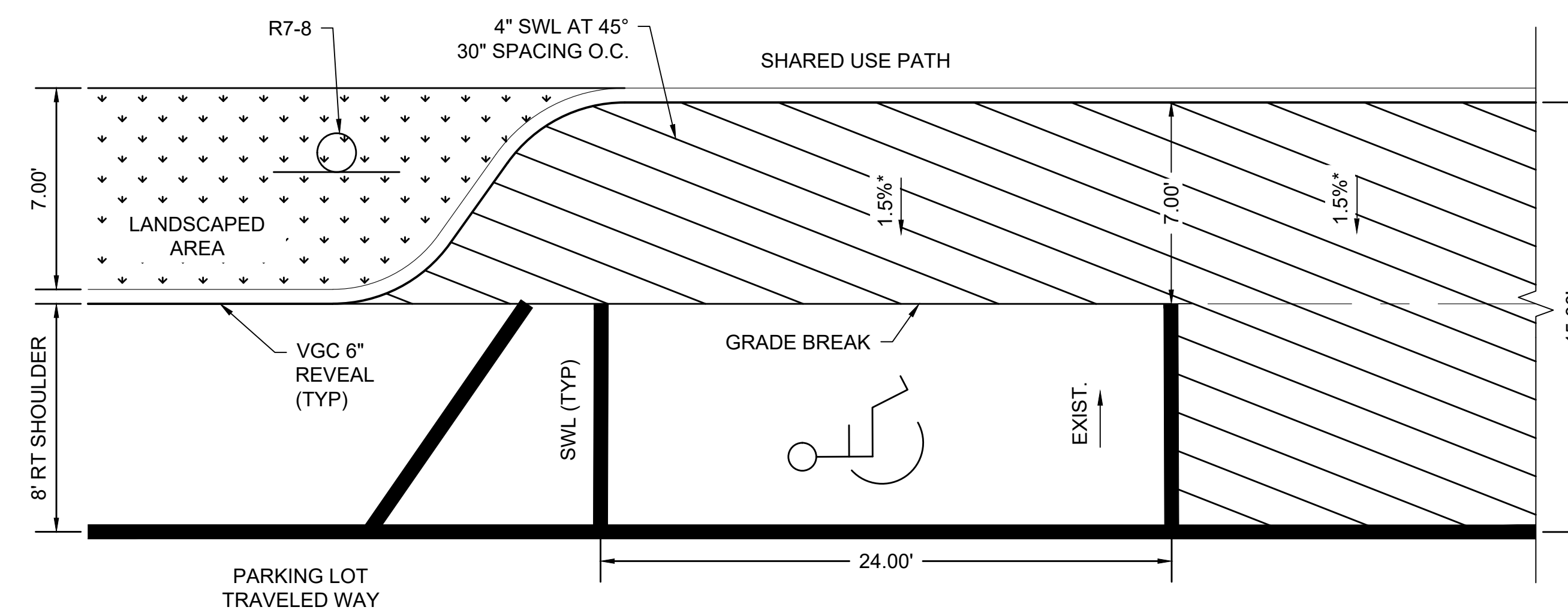
**SECTION A-A**

\* TOLERANCE FOR CONSTRUCTION ± 0.5%



**SECTION B-B**

DWY #	TYPE	DRIVEWAY REFERENCE POINT			WIDTH OF DRIVEWAY (W)	WIDTH OF APRON (W1)	LENGTH OF DRIVEWAY (L)	GUTTER SLOPE OF ROADWAY
		BASELINE	STATION	OFFSET				
1	A	ROUTE 6	108+16	26.53' LT	23.30'	2.00'	32.69'	3.39%
2	A	ROUTE 6	111+61	28.25' LT	19.16'	2.00'	29.52'	0.48%
3	A	ROUTE 6	114+95	33.80' LT	32.99'	2.00'	51.18'	-0.72%
4	B	ROUTE 6	123+25	34.00' LT	VARIES	2.00'	103.77'	3.30%



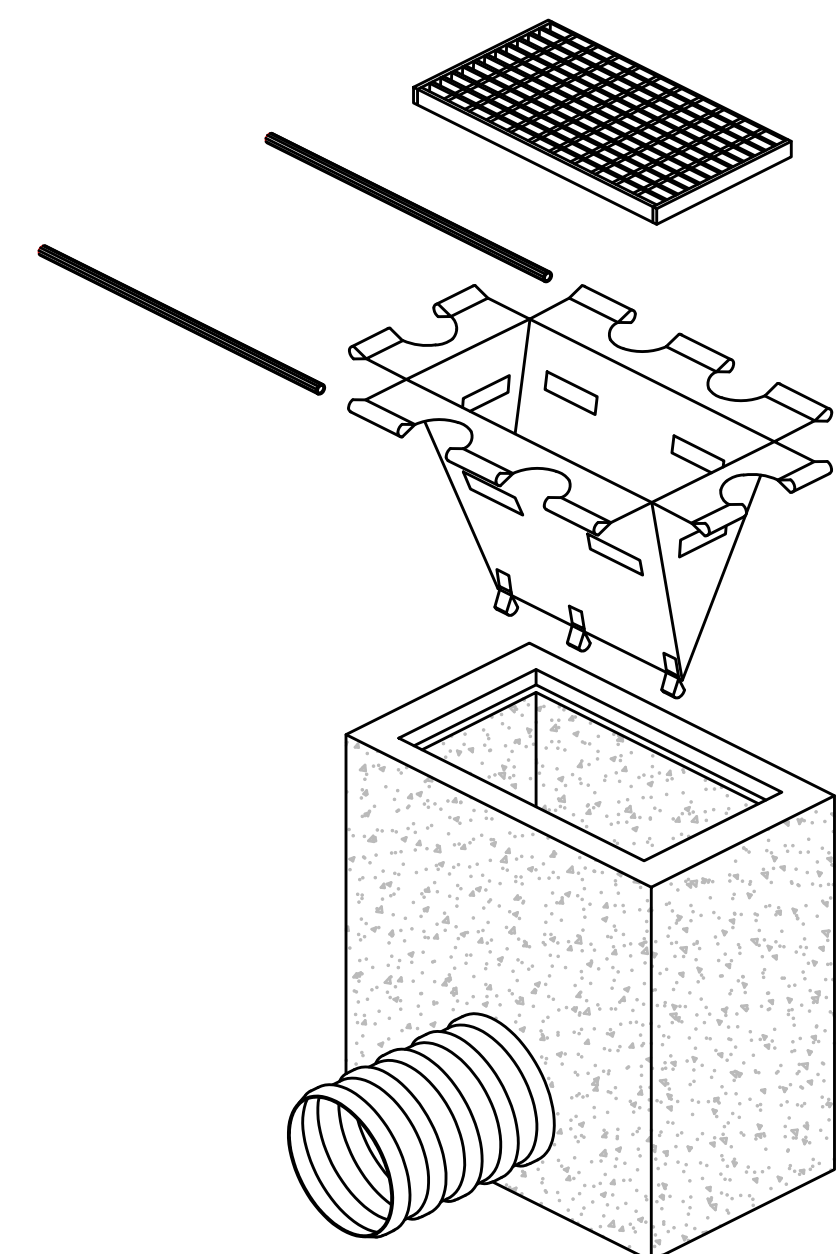
**ACCESSIBLE PARKING SPOT DETAIL**

\*TOLERANCE FOR CONSTRUCTION ± 0.5%

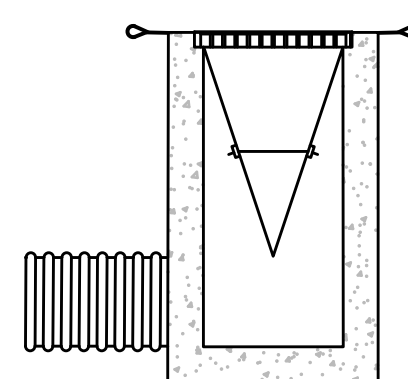
NOT TO SCALE



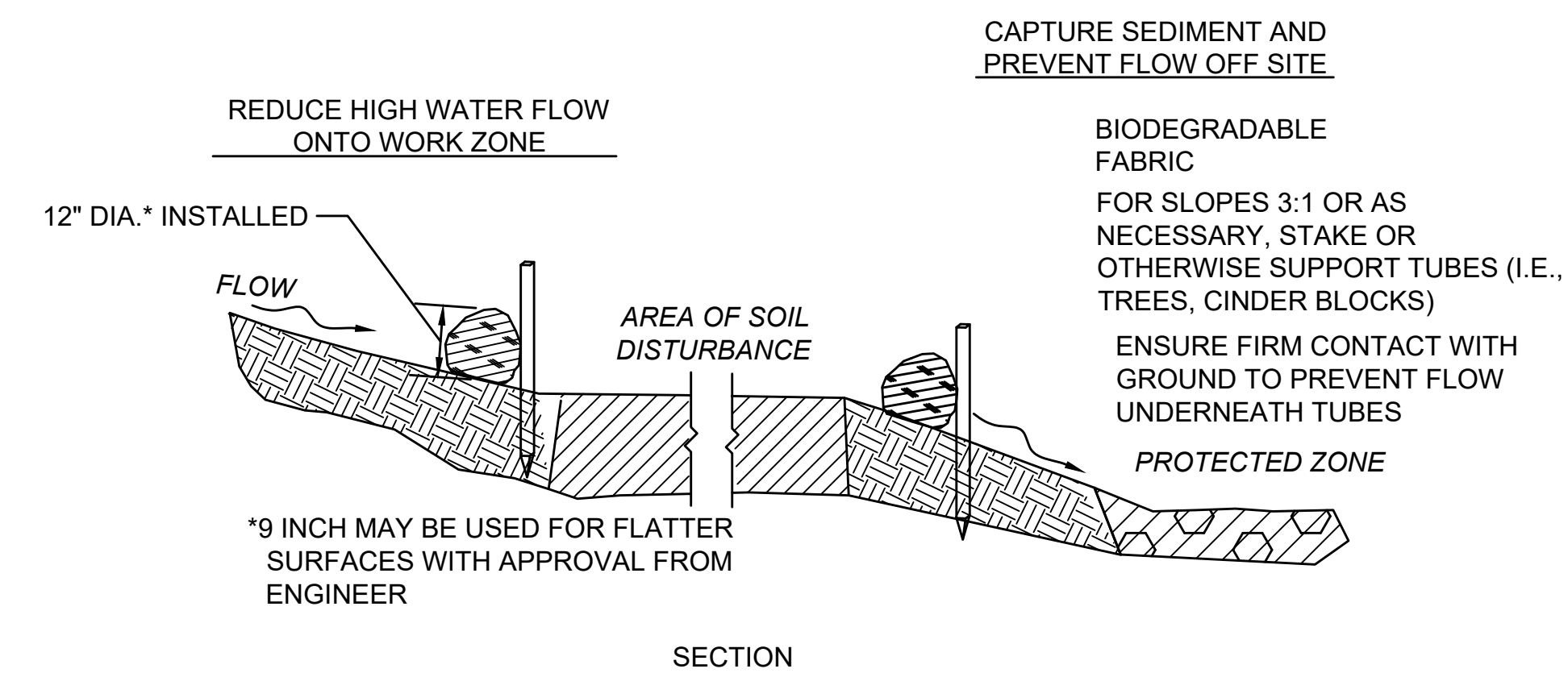
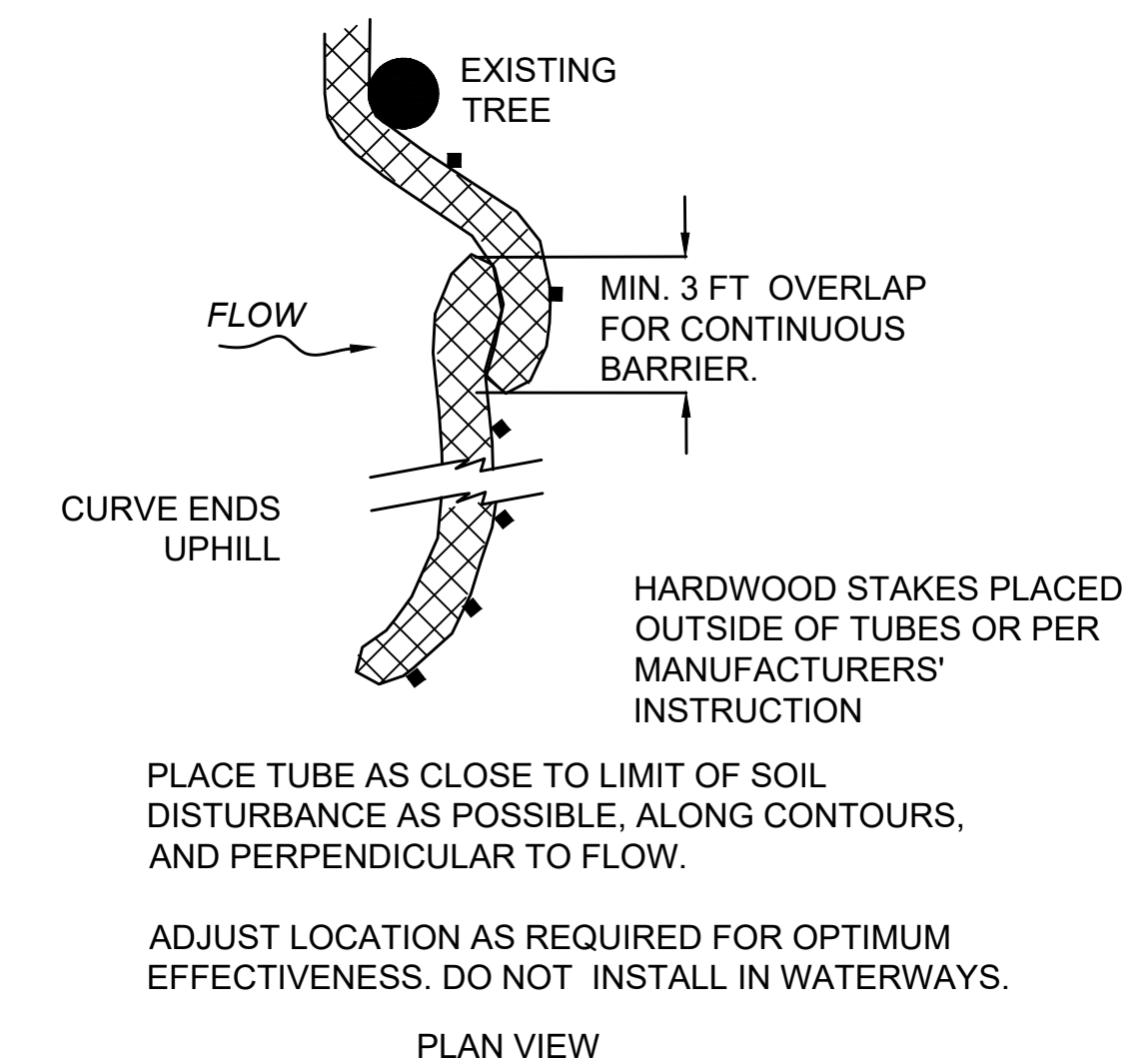
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	180	272
PROJECT FILE NO.		606082	



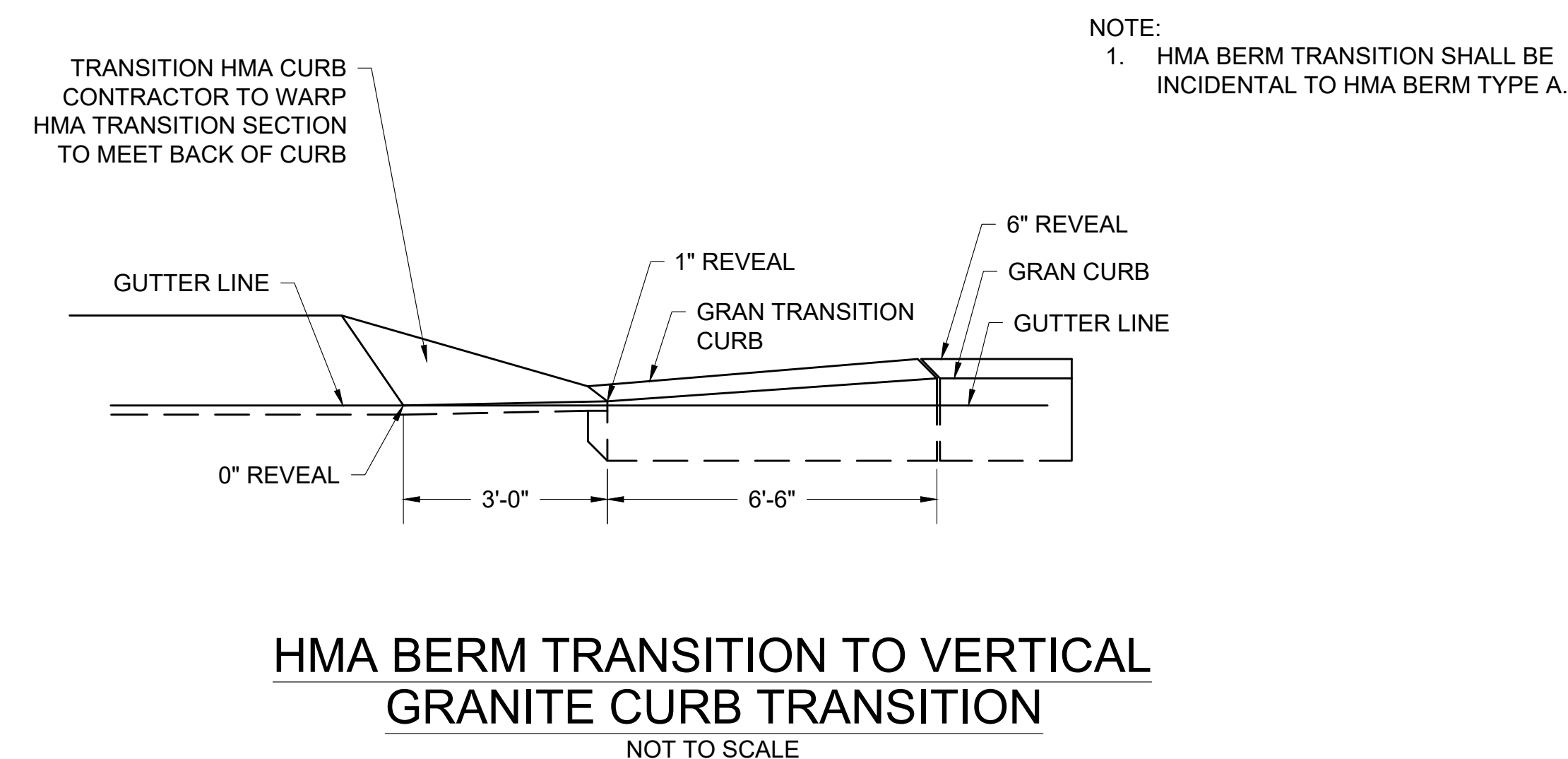
1. INSTALL DRAIN INLET PROTECTION PER MANUFACTURER'S SPECIFICATIONS.
2. REMOVE DRAIN INLET GRATE AND INSTALL POLYPROPYLENE FABRIC OVER DRAIN INLET FRAME. REPLACE DRAIN INLET GRATE TO SECURE POLYPROPYLENE FABRIC IN PLACE.
3. LENGTH AND WIDTH SHALL BE MANUFACTURED TO FIT THE OPENING OF THE DRAIN INLET.
4. MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DRAIN INLET PROTECTION SACK AS NEEDED.



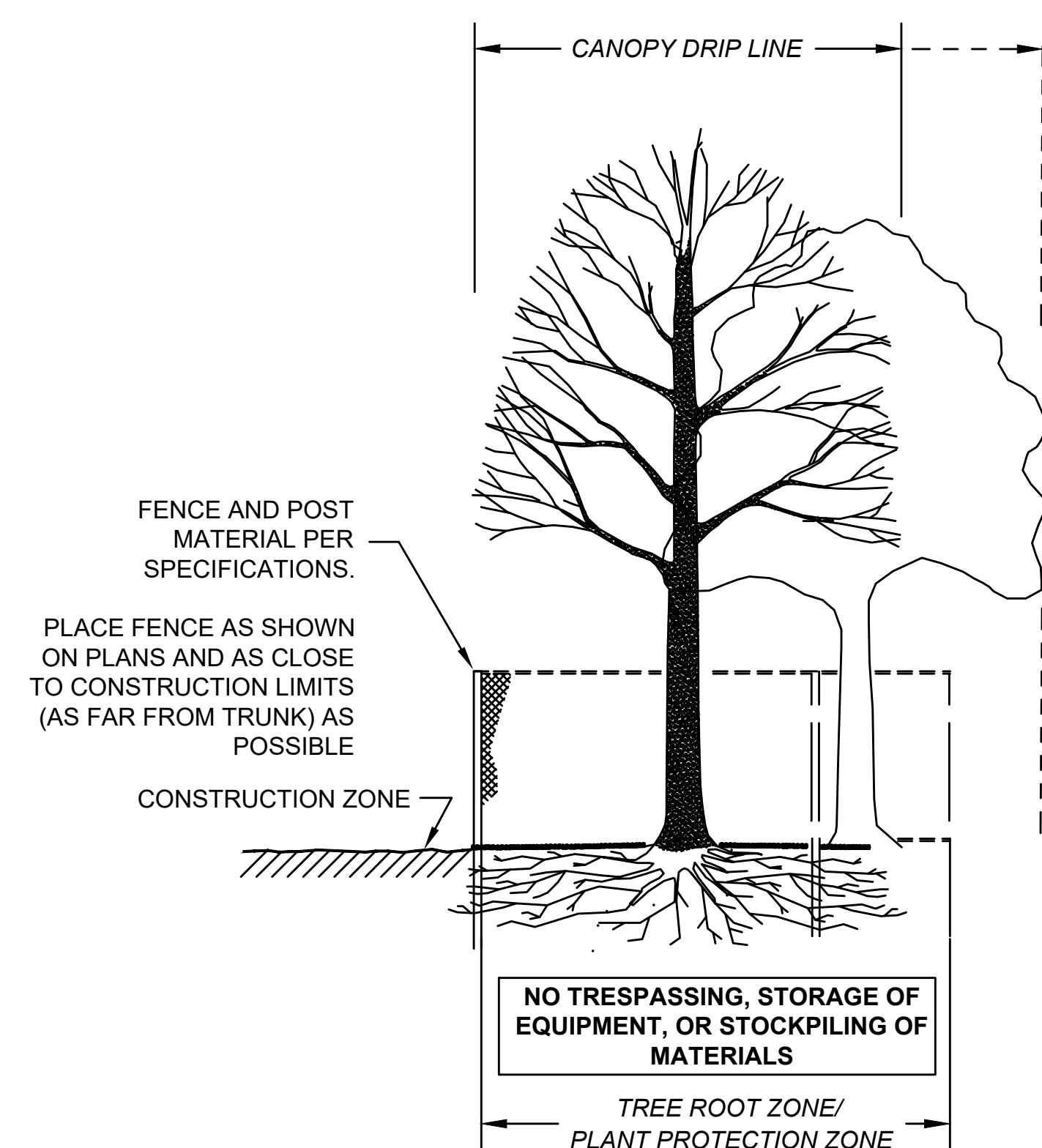
**TYPICAL DRAIN INLET PROTECTION**  
NOT TO SCALE



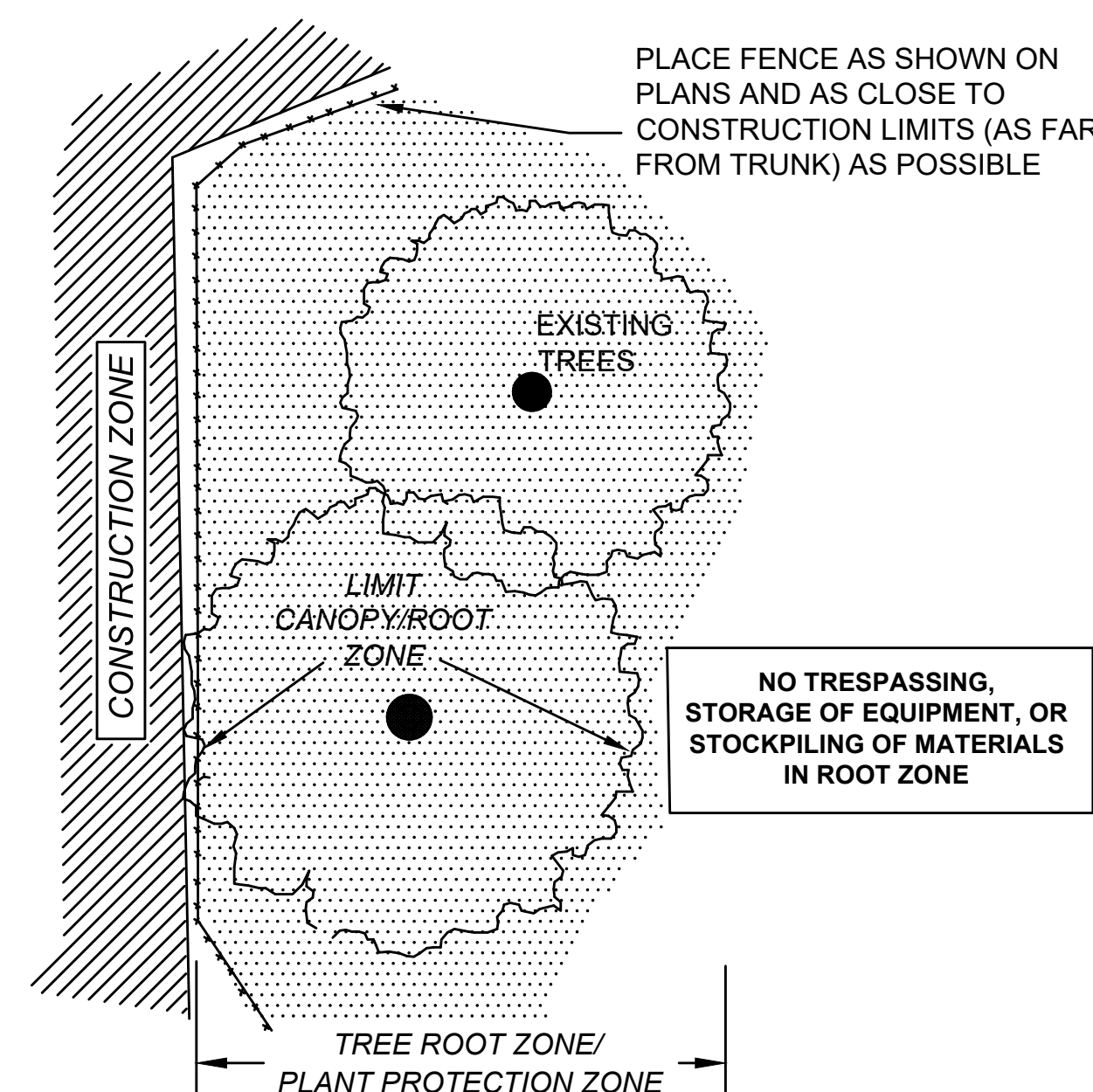
**COMPOST FILTER TUBE**  
NOT TO SCALE



**HMA BERM TRANSITION TO VERTICAL GRANITE CURB TRANSITION**  
NOT TO SCALE



**SECTION - FENCE PROTECTION OF ROOT ZONE**



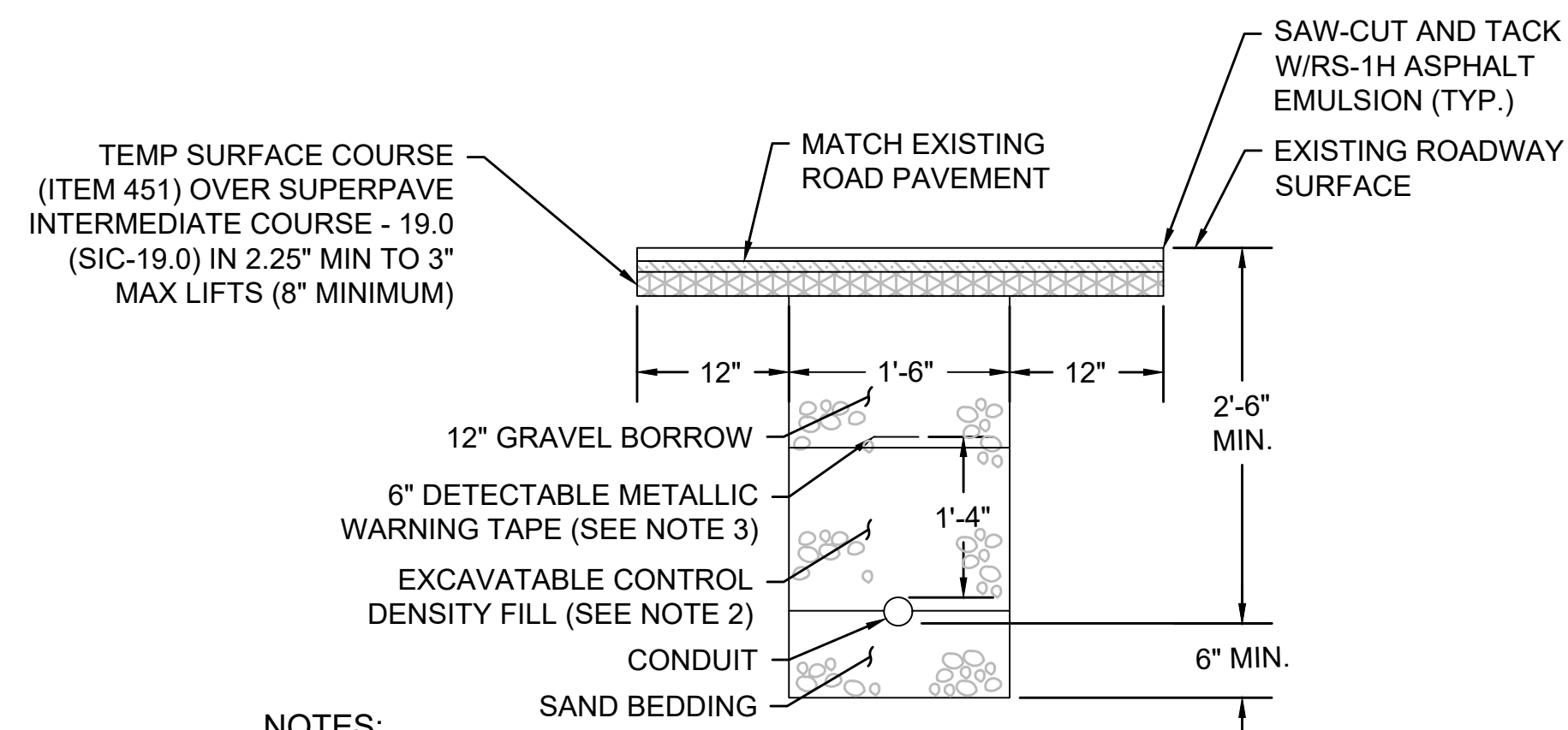
**PLAN VIEW - FENCE PROTECTION OF ROOT ZONE**

**TREE PROTECTION - ROOT ZONE**  
NOT TO SCALE

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	181	272
PROJECT FILE NO.		606082	

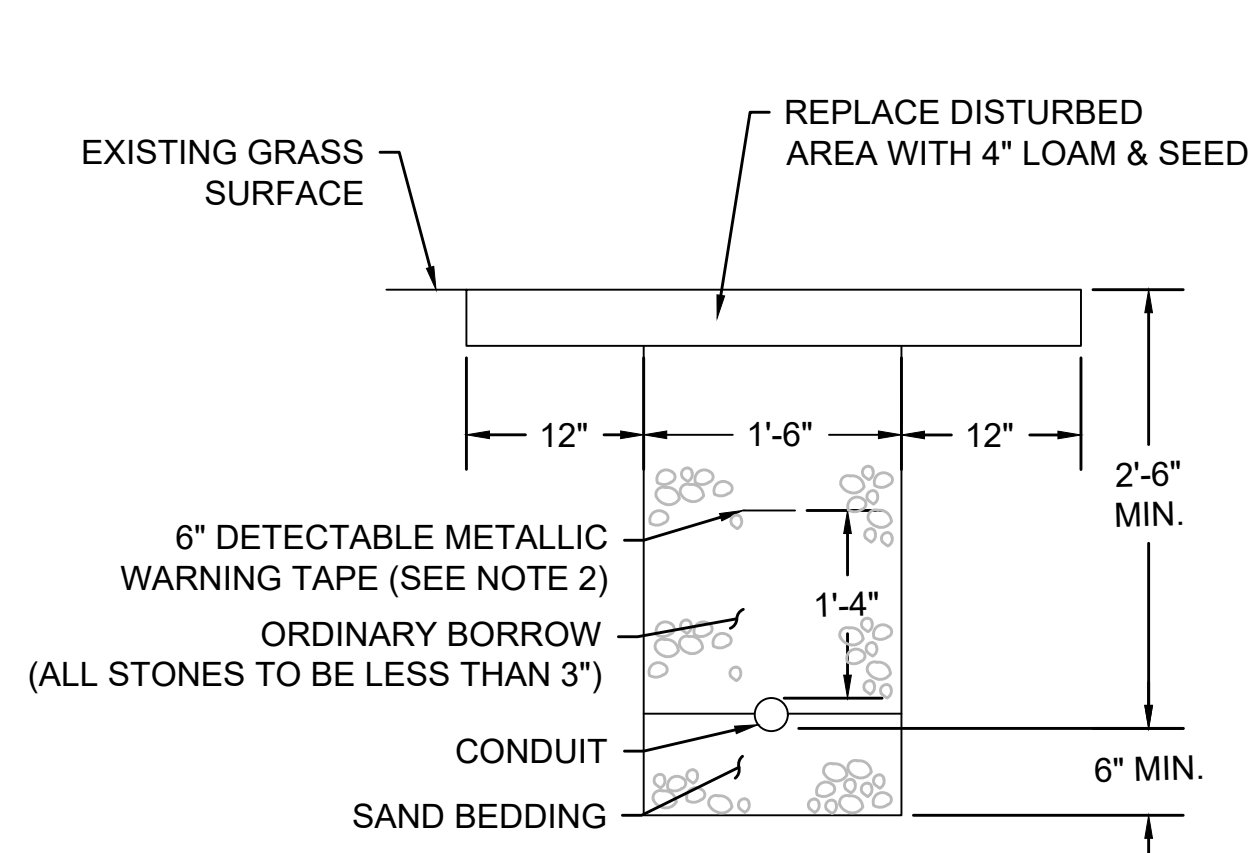
**CONSTRUCTION DETAILS  
SHEET 2 OF 12**



**NOTES:**

1. SCHEDULE 80 ELECTRICAL CONDUIT TYPE NM-PLASTIC (UL), WITH PULL ROPE, UNLESS OTHERWISE APPROVED BY MASSDOT.
2. CONTROL DENSITY FILL SHALL MEET THE REQUIREMENTS OF SUBSECTION M4.08.0
3. WARNING TAPE SHALL BE PER CURRENT APWA STANDARDS.
4. ITEM 451 SURFACE COURSE IS TEMPORARY AND SHALL BE MILLED OUT AND REPLACED WITH THE FINAL SURFACE COURSE PAVEMENT

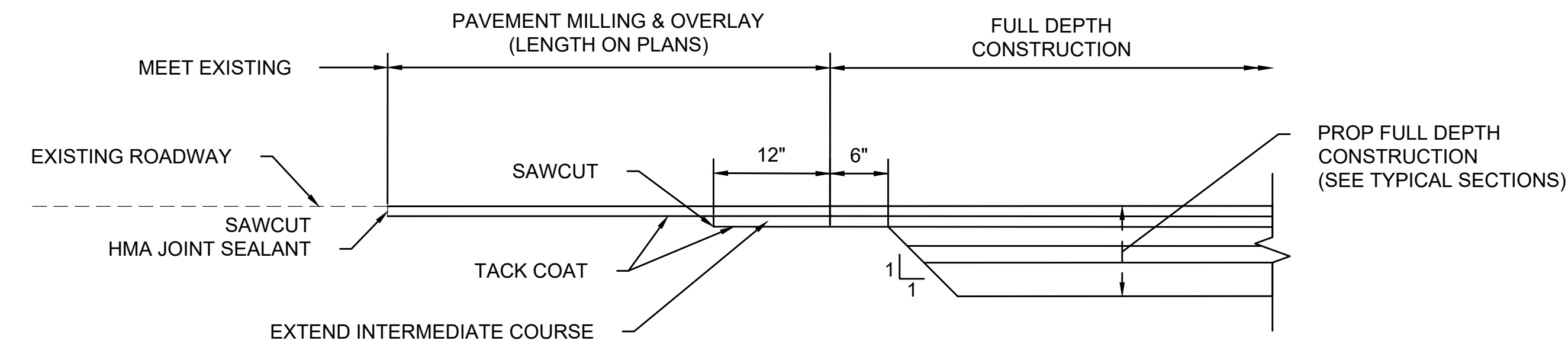
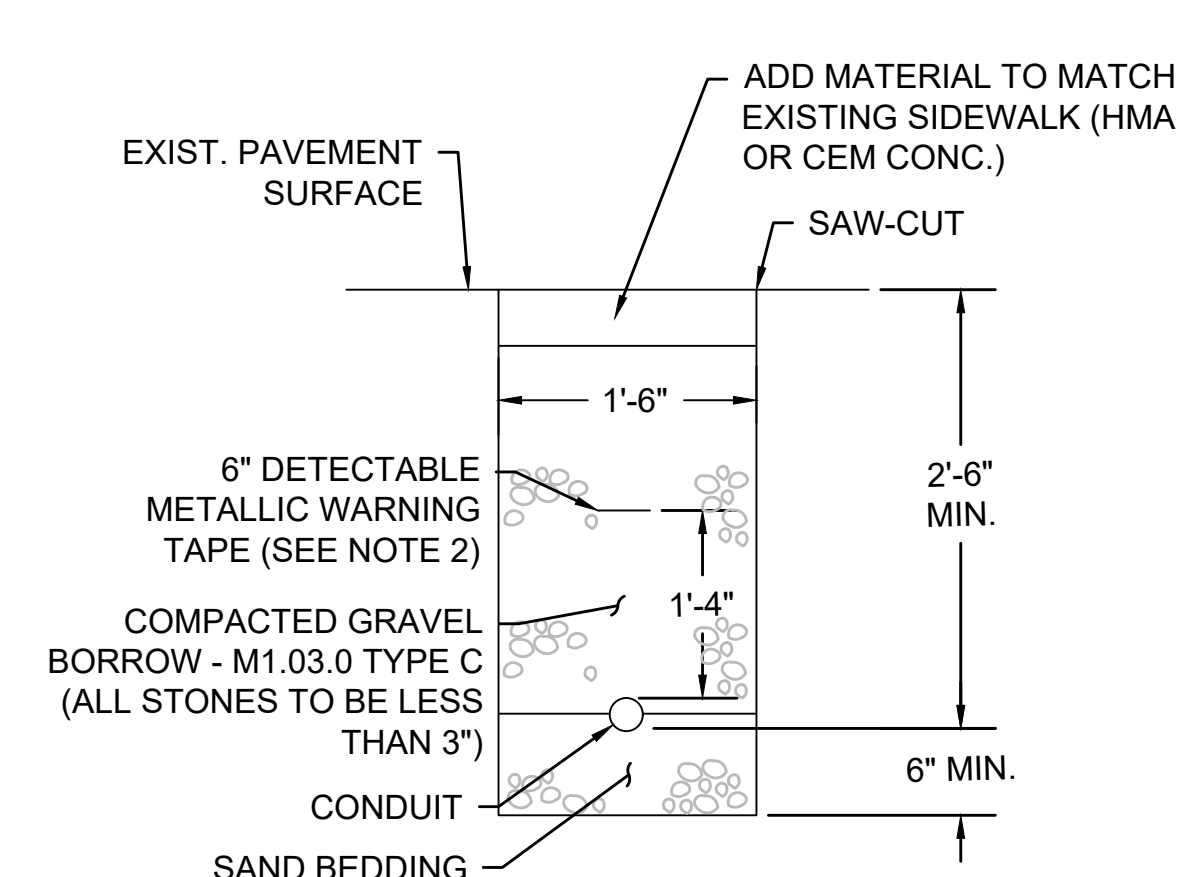
**DIRECT BURY CONDUIT CROSSING ROADWAY  
NOT TO SCALE**



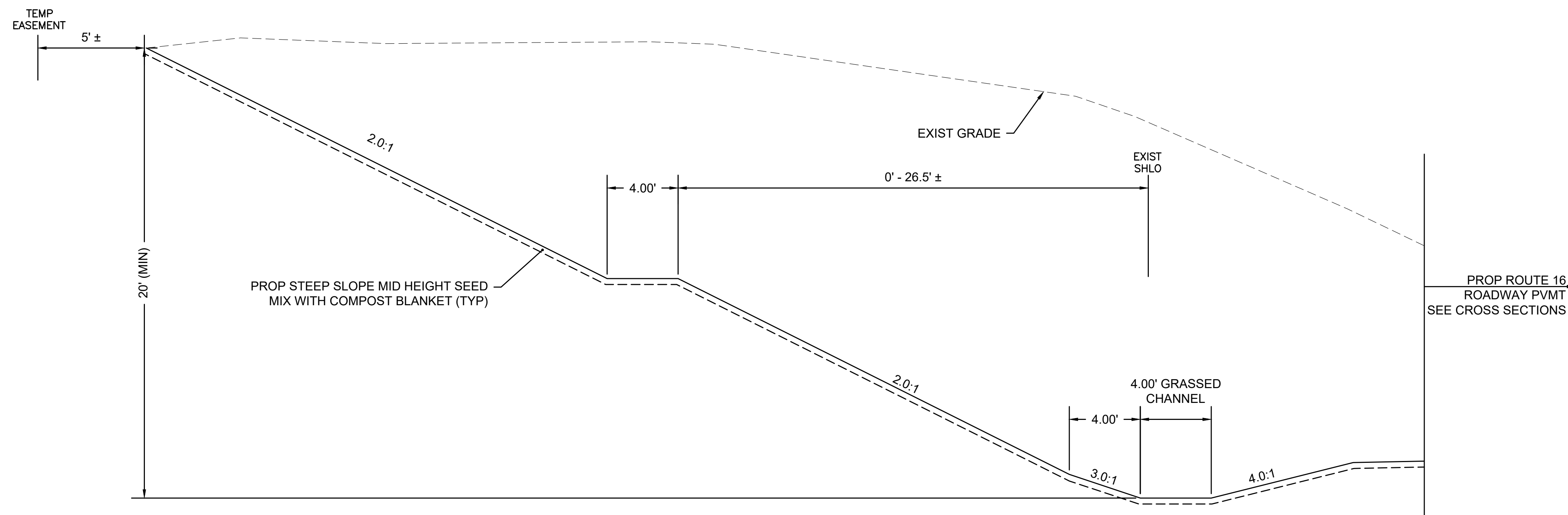
**NOTES:**

1. SCHEDULE 80 ELECTRICAL CONDUIT TYPE NM-PLASTIC (UL), WITH PULL ROPE, UNLESS OTHERWISE APPROVED BY MASSDOT.
2. WARNING TAPE SHALL BE PER CURRENT APWA STANDARD.

**DIRECT BURY CONDUIT UNDER SIDEWALK OR GRASS AREAS  
NOT TO SCALE**



**PAVING TRANSITION AT FULL DEPTH  
CONSTRUCTION  
NOT TO SCALE**



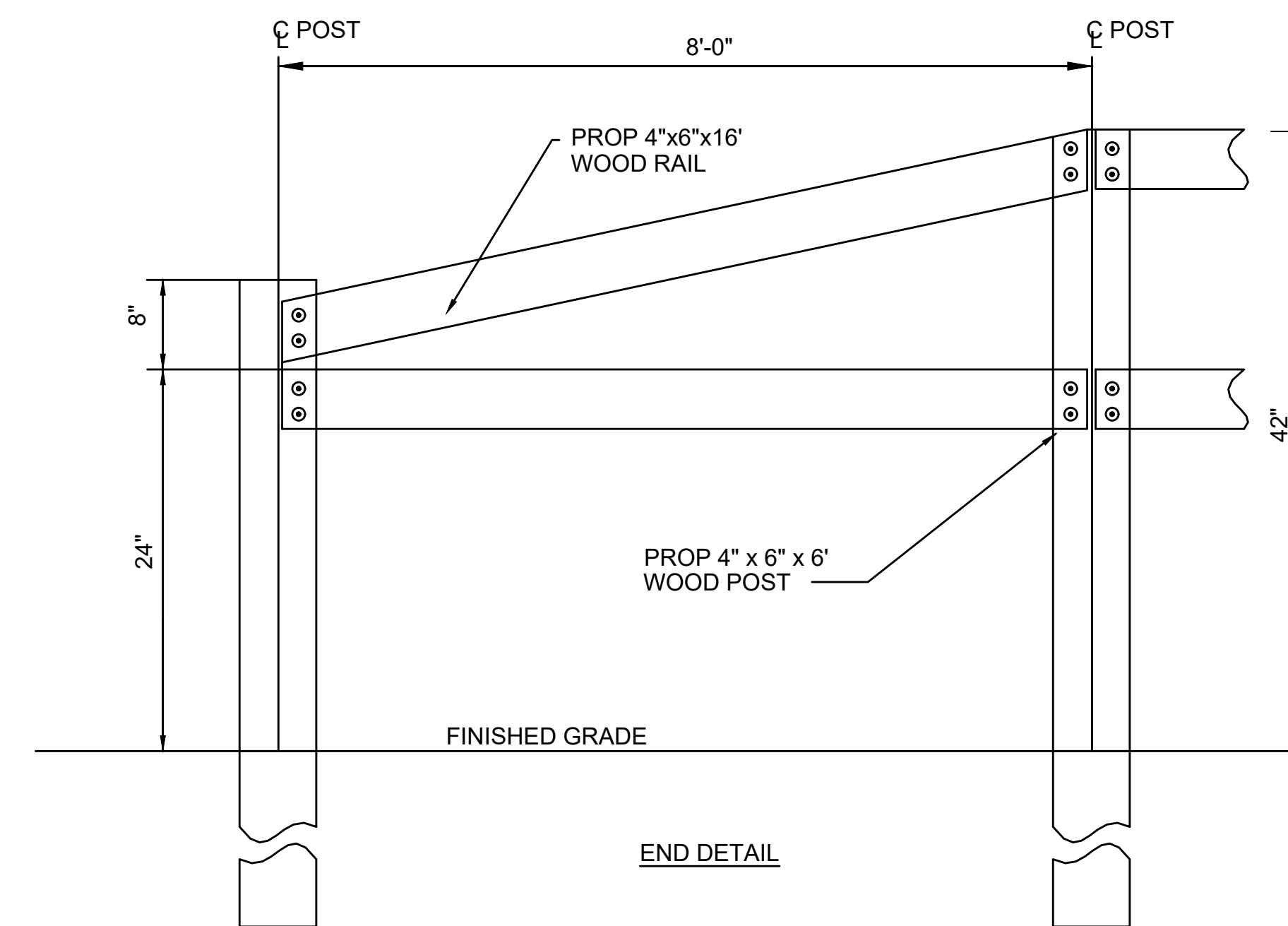
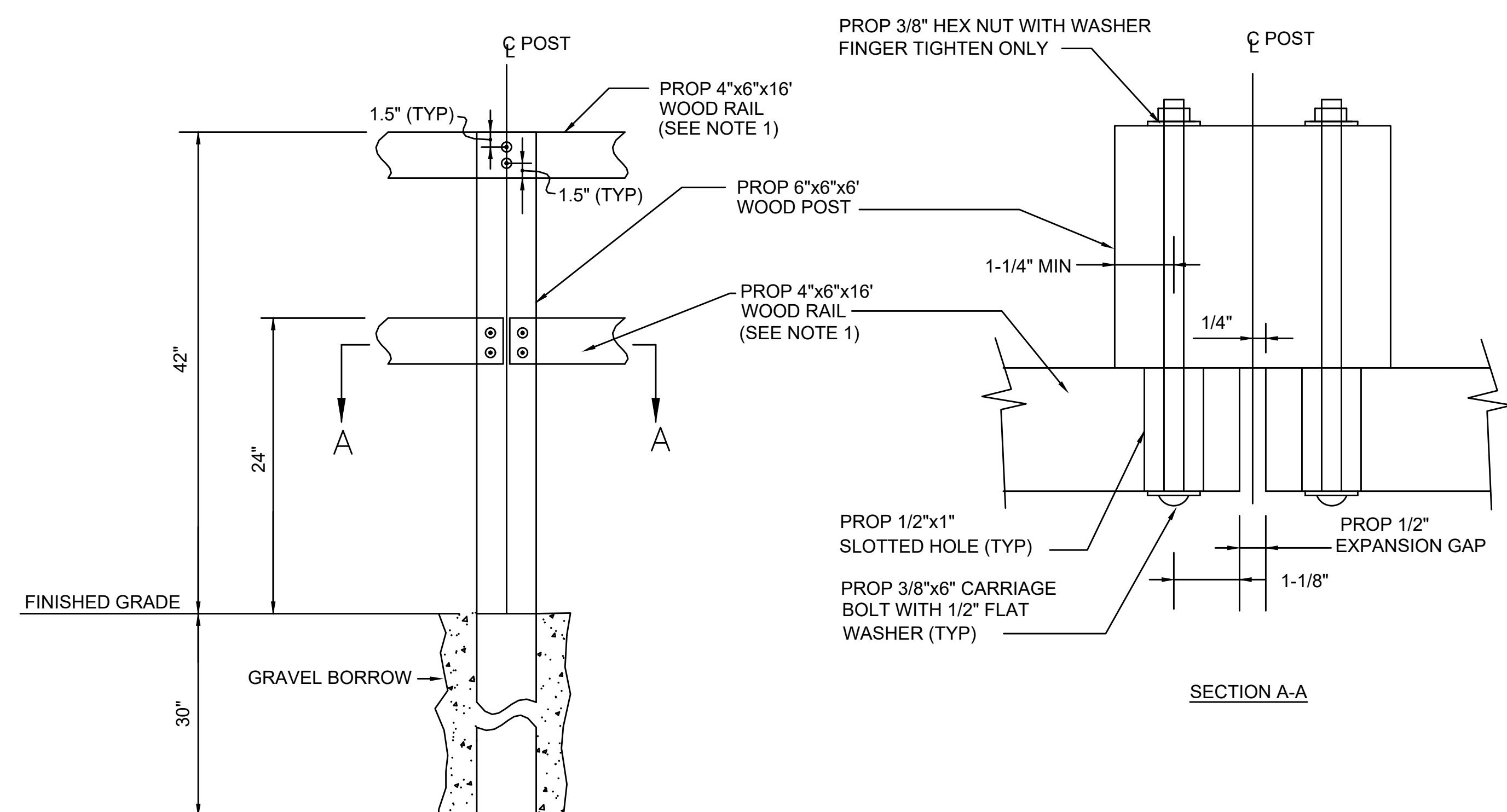
**SLOPE STABILITY SHELF  
NOT TO SCALE**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

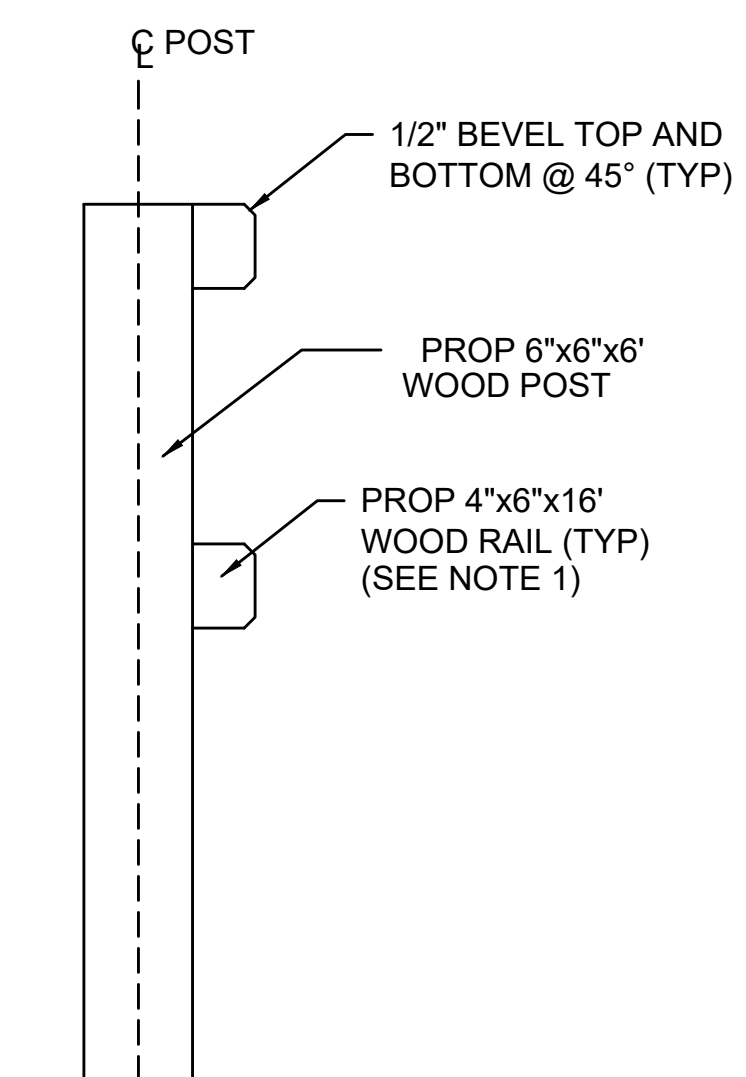
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	182	272
PROJECT FILE NO.		606082	

**CONSTRUCTION DETAILS  
SHEET 3 OF 12**



**NOTE:**

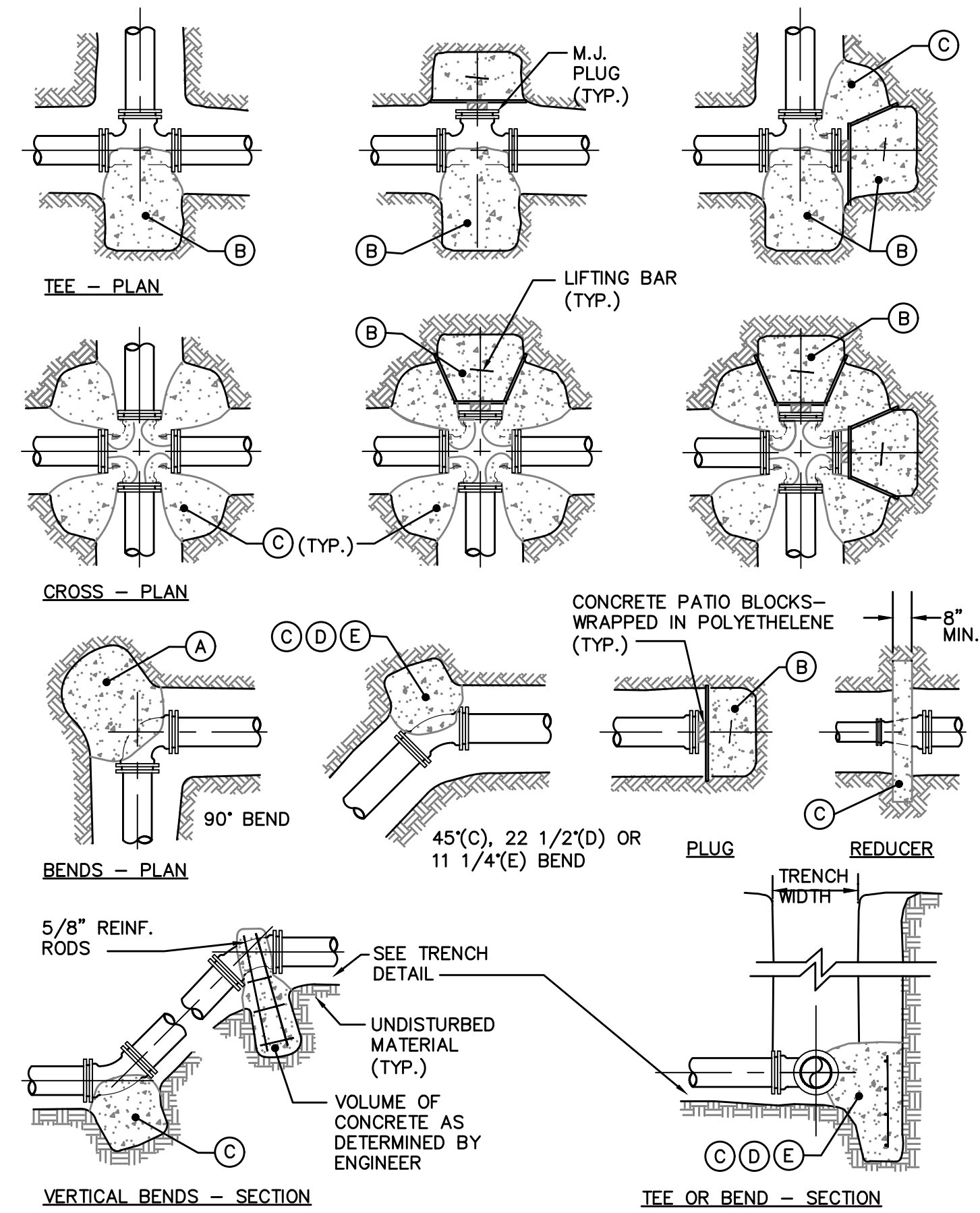
1. FOR WOOD RAIL FENCE REQUIREMENTS AT RETAINING WALL LOCATIONS, SEE SHEET 91.



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

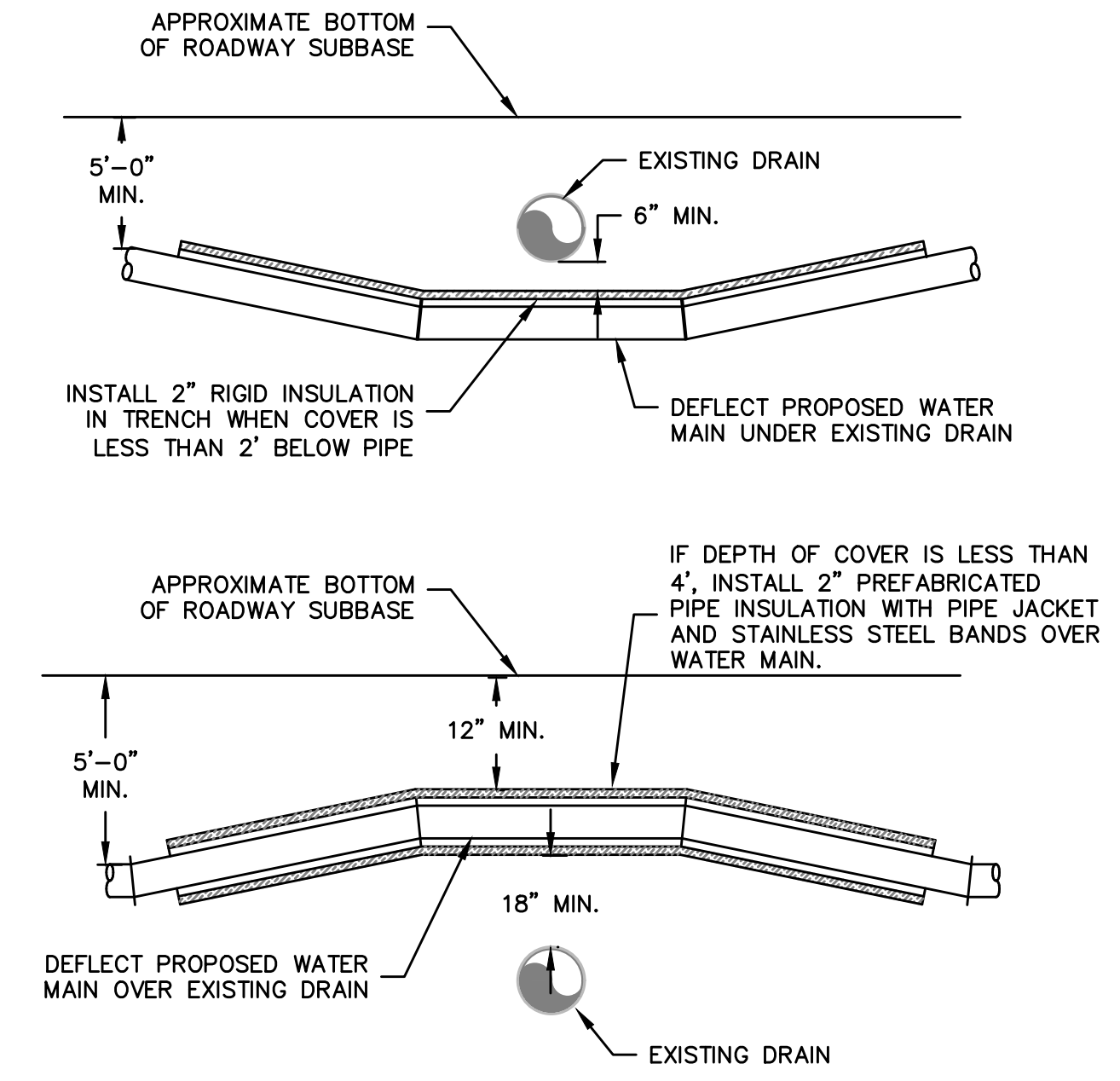
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	183	272
PROJECT FILE NO.		606082	

**CONSTRUCTION DETAILS  
SHEET 4 OF 12**

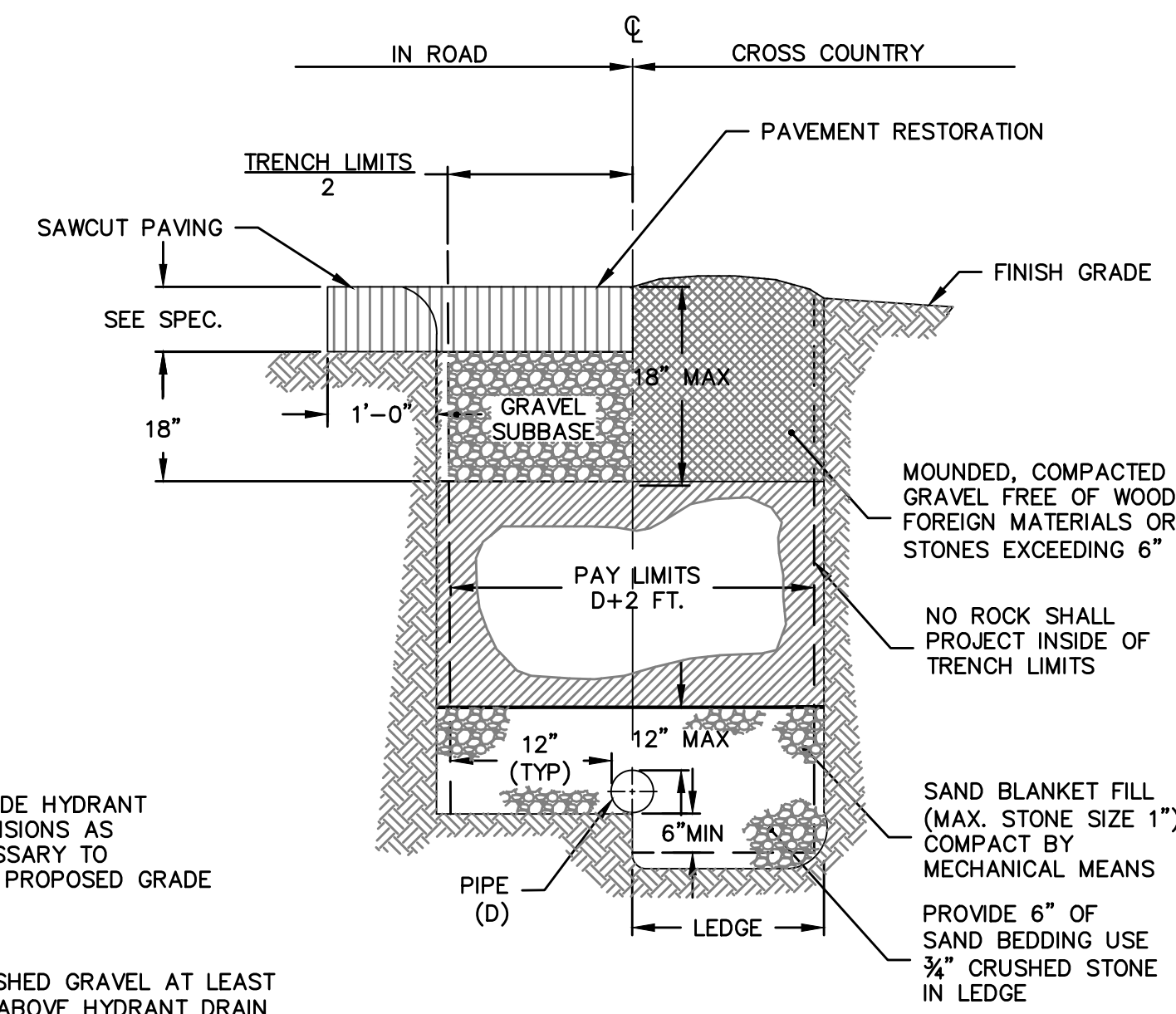
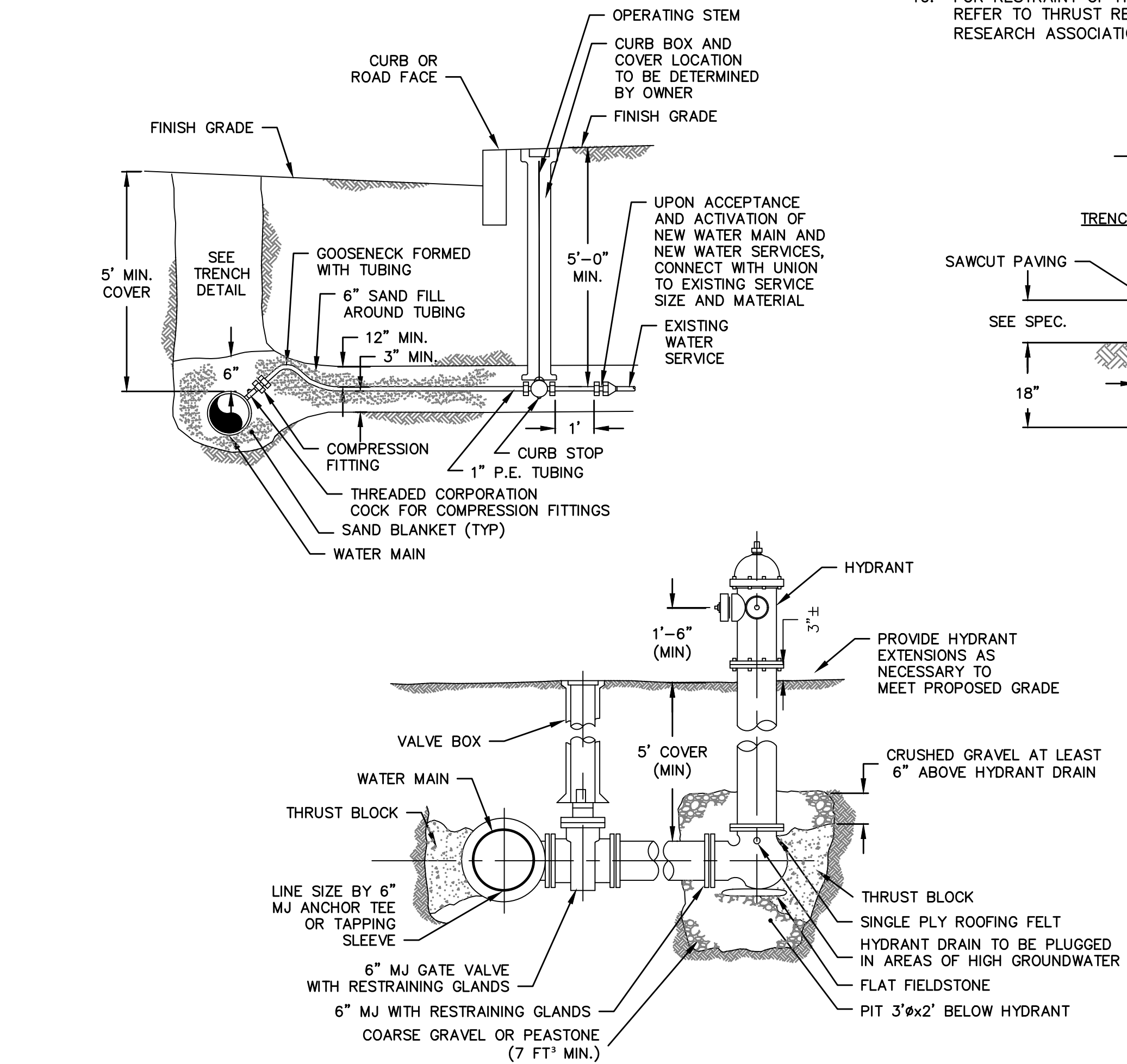


REACTION TYPE	PIPE SIZE											
	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"
TEST PRESSURE = 100 PSIG	(A) 0.89	2.19	3.92	5.57	8.62	10.91	15.41	18.02	24.06	34.64	53.83	77.39
(B)	0.65	1.55	2.76	4.19	6.09	8.37	10.89	13.87	17.01	24.49	38.06	54.72
(C)	0.48	1.19	2.12	3.01	4.66	5.91	8.34	9.71	13.02	18.75	29.13	41.88
(D)	0.25	0.60	1.08	1.54	2.37	3.01	4.25	4.97	6.64	9.56	14.85	21.35
(E)	0.13	0.30	0.54	0.77	1.19	1.52	2.12	2.51	3.33	4.79	7.45	10.71

- OTHER TEST PRESSURES FOR THE ABOVE REACTIONS**
- TEST PRESSURE TO BE 150 PSI MIN. AT LOW END OF THE TEST SECTION. SQUARE FEET OF CONCRETE THRUST BLOCKING FOR OTHER TEST PRESSURES IS DIRECTLY PROPORTIONAL TO THE ABOVE TABLE. FOR INSTANCE, AT 200 PSI TEST PRESSURE FOR ABOVE NUMBERS DOUBLE.
- NOTES:**
- POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.
  - ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
  - PLACE CONCRETE PATIO BLOCKS IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCK.
  - REQUIREMENTS OF THE ABOVE TABLE PRESUME MINIMUM SOIL BEARING OF 1 TON PER SQUARE FOOT, AND MAY BE VARIED BY THE ENGINEER TO MEET OTHER CONDITIONS ENCOUNTERED.
  - RESTRAINING GLANDS ARE REQUIRED FOR ALL MECHANICAL JOINTS. THESE GLANDS DO NOT REDUCE THE REQUIREMENTS FOR THRUST RESTRAINT.
  - ALL FITTINGS SHALL BE WRAPPED IN POLYETHYLENE OR BUILDING PAPER PRIOR TO INSTALLATION OF CONCRETE RESTRAINT.
  - THREADED RODS SHALL BE ANSI A242 FY50 PIPE RESTRAINT NUTS TO MATCH AWWA C111. THREADED RODS AND NUTS TO BE FIELD COATED WITH BITUMINOUS PAINT.
  - THRUST RESTRAINT IS REQUIRED FOR ALL TEES, BENDS, REDUCERS, CAPS, PLUGS, OR CROSSES.
  - INSTALL LIFT HOOKS INTO THRUST BLOCKS AT END CAPS AND PLUGS.
  - FOR RESTRAINT OF HORIZONTAL AND VERTICAL BENDS AND FITTINGS, CONTRACTOR SHALL REFER TO THRUST RESTRAINT REQUIREMENTS SET FORTH IN THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) THRUST DESIGN GUIDELINES.

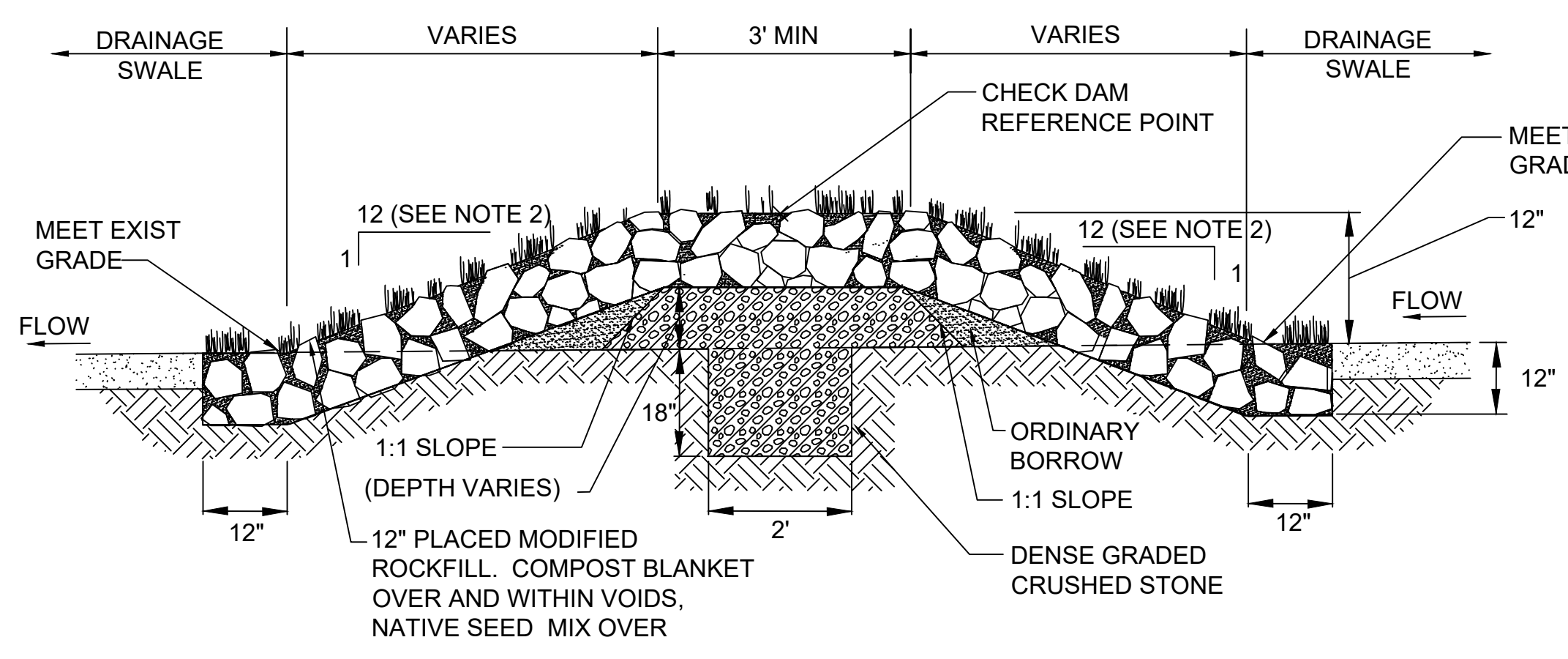


- THE CONTRACTOR SHALL NOTIFY "DIG SAFE" 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO BEGINNING THE WORK.
- THE EXISTING UTILITIES AND ALL OTHER STRUCTURES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE AND MAY NOT BE IN THE EXACT LOCATION SHOWN OR MAY NOT BE SHOWN AT ALL. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR THE COMPLETE FIELD INVESTIGATION, PERSONALLY, OF ALL EXISTING UTILITIES TO HIS COMPLETE SATISFACTION PRIOR TO SUBMITTING A FORMAL BID.
- NEW WATER MAINS SHALL WHEREVER POSSIBLE BE LAID OVER EXISTING SEWERS AND SEWER SERVICES, AND UNDER ANY EXISTING DRAINS, GAS MAINS, TELEPHONE CABLES, ELECTRIC CABLES, OR OTHER WATER MAINS AS SHOWN ON THE PLANS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- NEW WATER MAINS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 5'-0" FROM FINISH GRADE TO TOP OF PIPE. WHERE NECESSARY NEW WATER LINES WILL BE INSTALLED AT A GREATER DEPTH TO CLEAR OBSTACLES AT NO ADDITIONAL COST. MINIMUM CLEARANCES OF UTILITIES AS SHOWN ON THE DRAWINGS MUST BE MAINTAINED. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE ENGINEER TO INSTALL ANY WATER LINES WITH LESS THAN 5'-0" DEPTH TO COVER. ANY WATER LINES INSTALLED WITH LESS THAN THE REQUIRED MINIMUM DEPTH OF COVER MUST BE INSULATED TO THE EXTENT INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL EXCAVATE SUFFICIENTLY AHEAD OF HIS PIPE INSTALLATION SO AS TO DETERMINE WHETHER TO RAISE OR LOWER THE PROPOSED WATER MAIN SUCH THAT IT WILL CLEAR EXISTING UTILITIES.
- RESTRAINING GLANDS SHALL BE PROVIDED FOR MECHANICAL JOINTS ON BENDS, TEES, PLUGS, CAPS, VALVES AND HYDRANTS WHERE SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO SECURE UTILITY POLES IN AREAS WHERE NEW WATER MAIN IS TO BE INSTALLED CLOSE TO POLES.
- ALL FENCES, MAIL BOXES, SIGNS, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DISTURBING STONE WALLS AND TREES DURING CONSTRUCTION. THE COST OF ALL SUCH WORK SHALL BE INCLUDED UNDER WATER MAIN ITEMS.
- THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES WHICH HOLD WATER IN THE SYSTEM. THE WATER DISTRICT WILL, UPON 24 HOURS NOTICE FROM THE CONTRACTOR, OPEN AND/OR CLOSE ANY VALVES REQUIRED FOR DRAINING OR ADMITTING WATER TO VARIOUS SECTIONS OF THE MAINS.
- ALL DISTURBED AREAS BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST.
- ANY WATER THAT IS PUMPED AND DISCHARGED FROM THE TRENCH AND/OR EXCAVATION AS PART OF THE CONTRACTOR'S WATER HANDLING SHALL BE FILTERED BY AN APPROVED METHOD PRIOR TO ITS DISCHARGE INTO A RECEIVING WATER OR DRAINAGE SYSTEM.
- THE PUMPED WATER SHALL BE FILTERED THROUGH BALED HAY, A VEGETATIVE FILTER STRIP OR A VEGETATED CHANNEL TO TRAP SEDIMENT OCCURRING AS A RESULT OF THE CONSTRUCTION OPERATIONS. THE VEGETATED CHANNEL SHALL BE CONSTRUCTED SUCH THAT DISCHARGE FLOW RATE SHALL NOT EXCEED A VELOCITY OF MORE THAN 1 FPS. THE SEDIMENT SHALL BE CLEARED FROM THE CHANNEL PERIODICALLY.

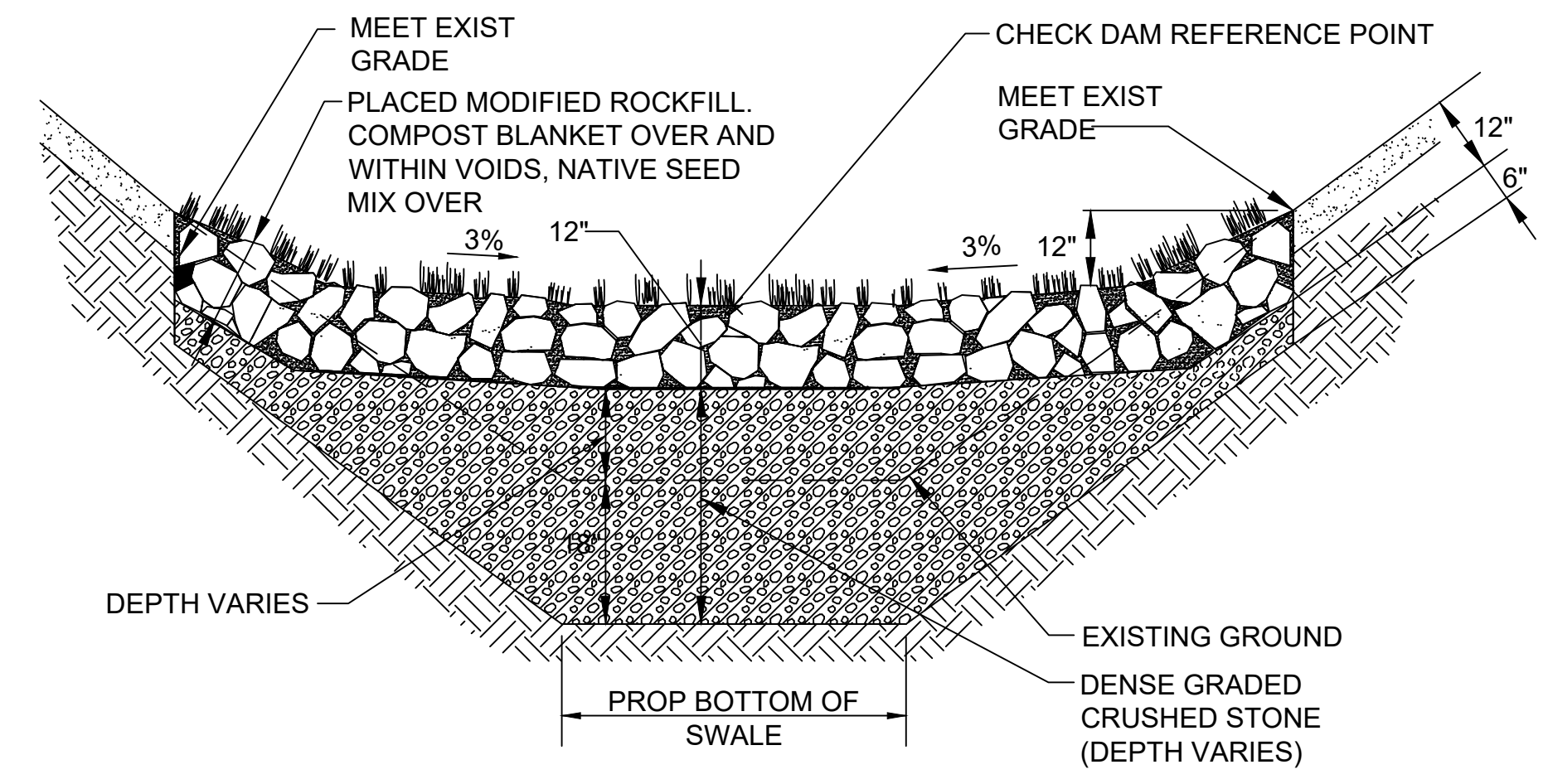


- NOTES:**
- PIPING, VALVES AND TAPPING SLEEVES AND GATE VALVES ASSOCIATED WITH NEW HYDRANT INSTALLATION SHALL BE PAID FOR UNDER THE APPROPRIATE ITEMS.

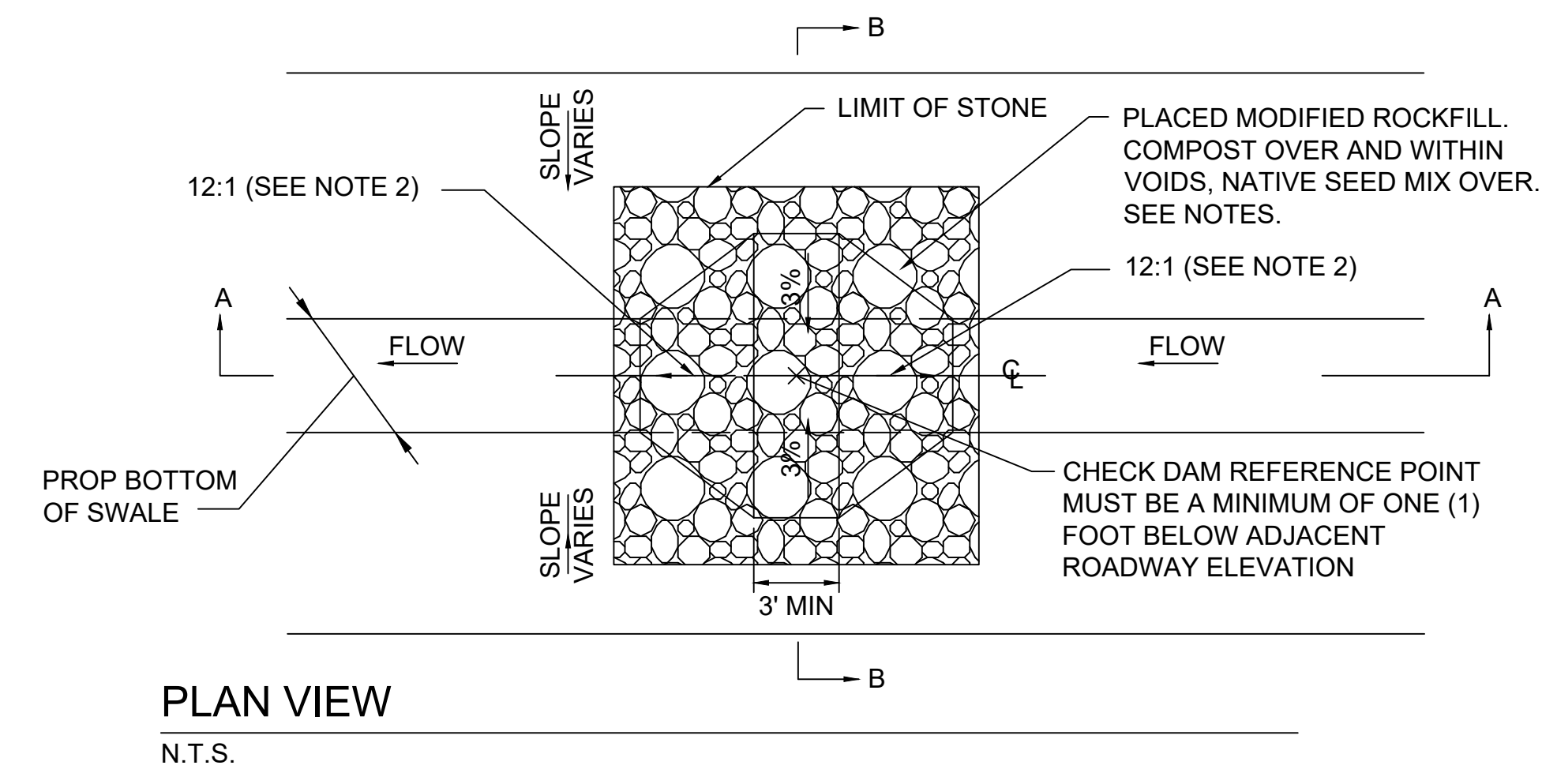




**SECTION A-A**  
N.T.S.



**SECTION B-B**  
N.T.S.

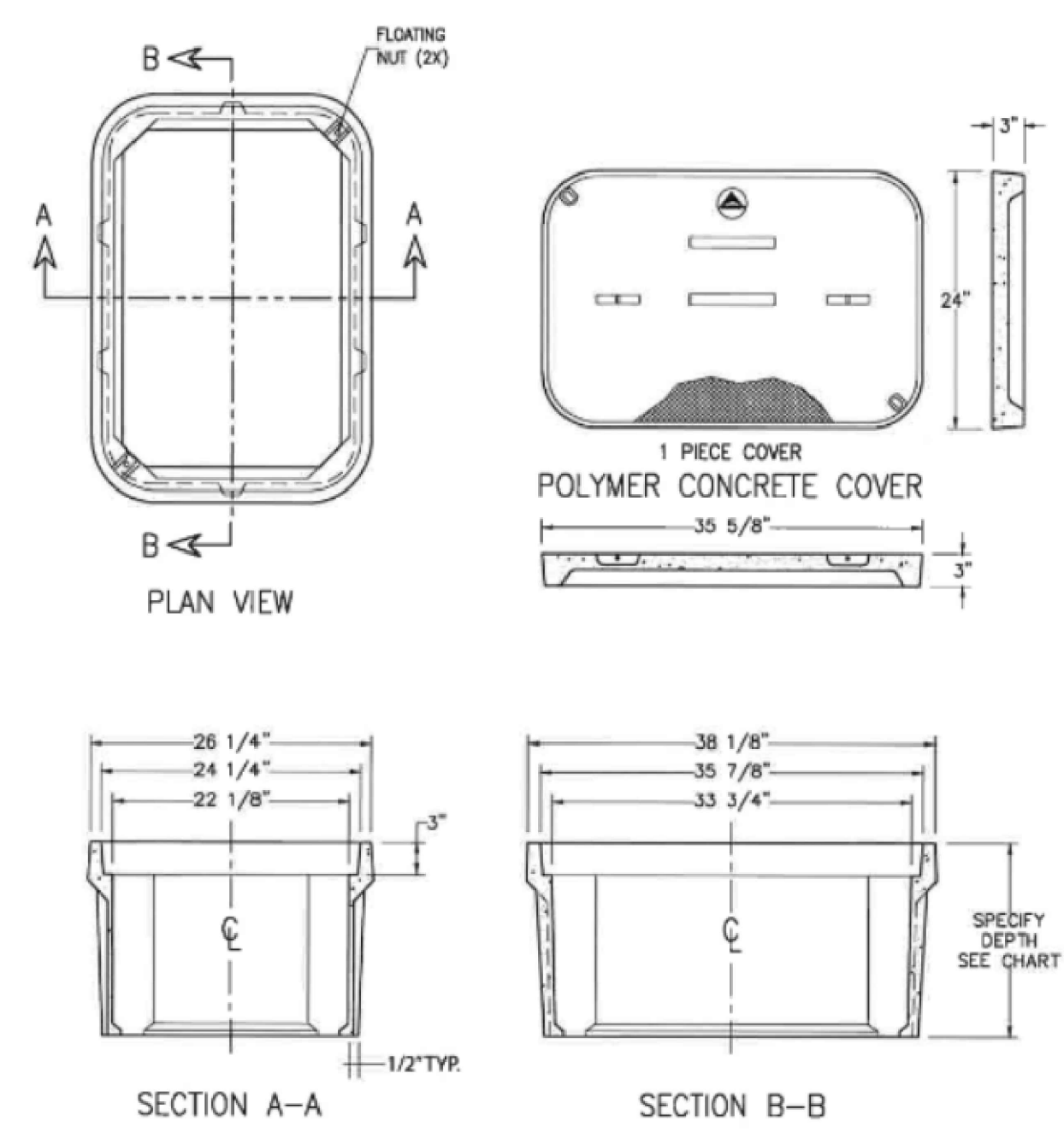


**PLAN VIEW**  
N.T.S.

**CHECK DAM DETAIL**  
NOT TO SCALE

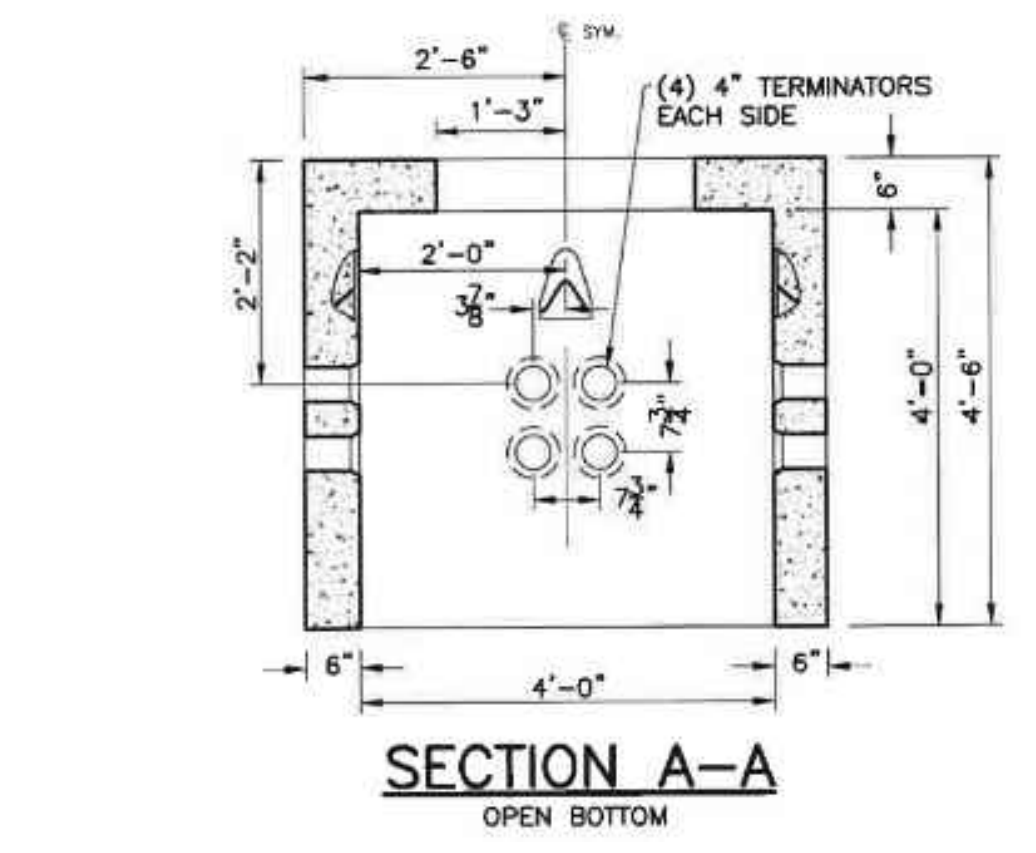
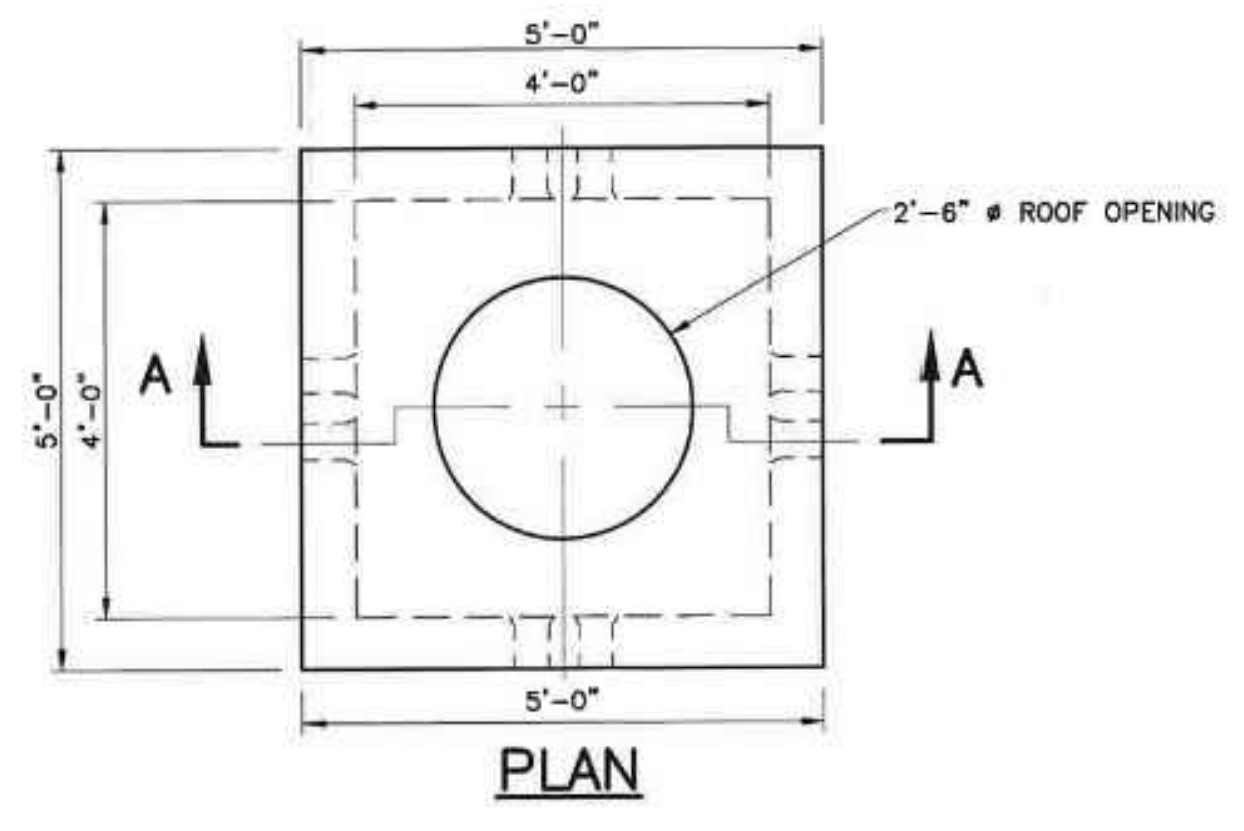
**CHECK DAM CONSTRUCTION NOTES**

- CONTRACTOR SHALL FIELD VERIFY THAT THE DIFFERENCE BETWEEN CHECK DAM REFERENCE POINT ELEVATION AND ADJACENT ROADWAY ELEVATION IS NOT LESS THAN 1-FOOT. IF FIELD CONDITIONS DO NOT RESULT IN 1-FOOT ELEVATION DIFFERENCE BETWEEN PROVIDED CHECK DAM REFERENCE POINT AND ADJACENT ROADWAY ELEVATION AT EDGE OF PAVEMENT, CONTRACTOR SHALL NOTIFY ENGINEER.
- 12:1 SLOPE. STEEPER TRAVERSE SLOPES ARE PERMISSIBLE (3:1 MAXIMUM) WITH LONGITUDINAL ROADSIDE BARRIERS, AREAS OUTSIDE THE CLEAR ZONE, OR ON LOW SPEED FACILITIES.
- APPLY COMPOST MATERIAL OVER AND WITHIN THE MODIFIED ROCKFILL. MATERIAL SHOULD BE PLACED SO THAT SETTLED MATERIAL IS AT OR SLIGHTLY BELOW SURFACE PLANE OF STONE AND SHALL BE WORKED INTO THE VOIDS OF THE MODIFIED ROCK FILL. COMPOST SHALL BE RAKED BY HAND.
- SEED OVER COMPOST SHALL BE ITEM 765.412 - SHORT GRASSLAND MIX, SANDY SOIL.
- COMPOST SHALL BE ITEM 751.7 COMPOST BLANKET. INSTALLED AS SHOWN IN THIS DETAIL.

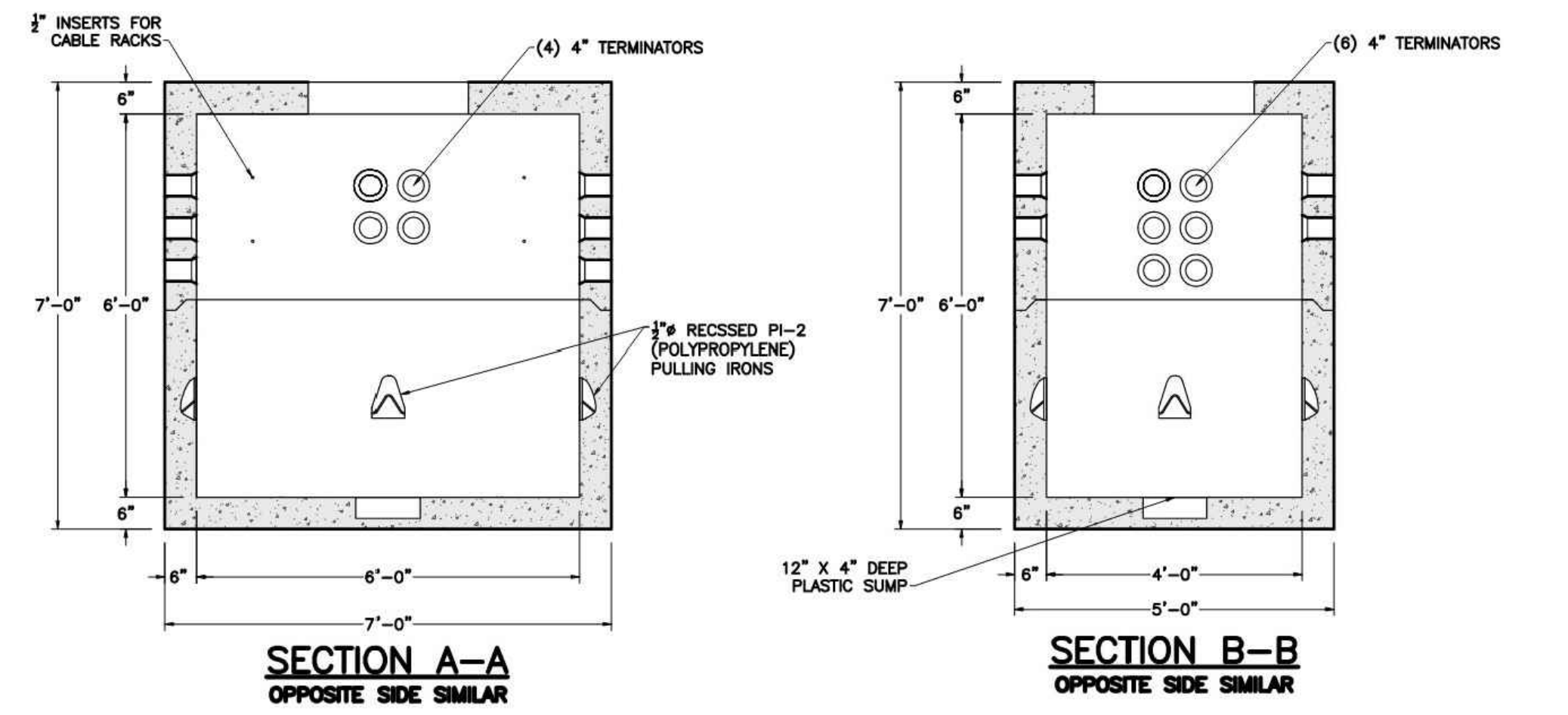
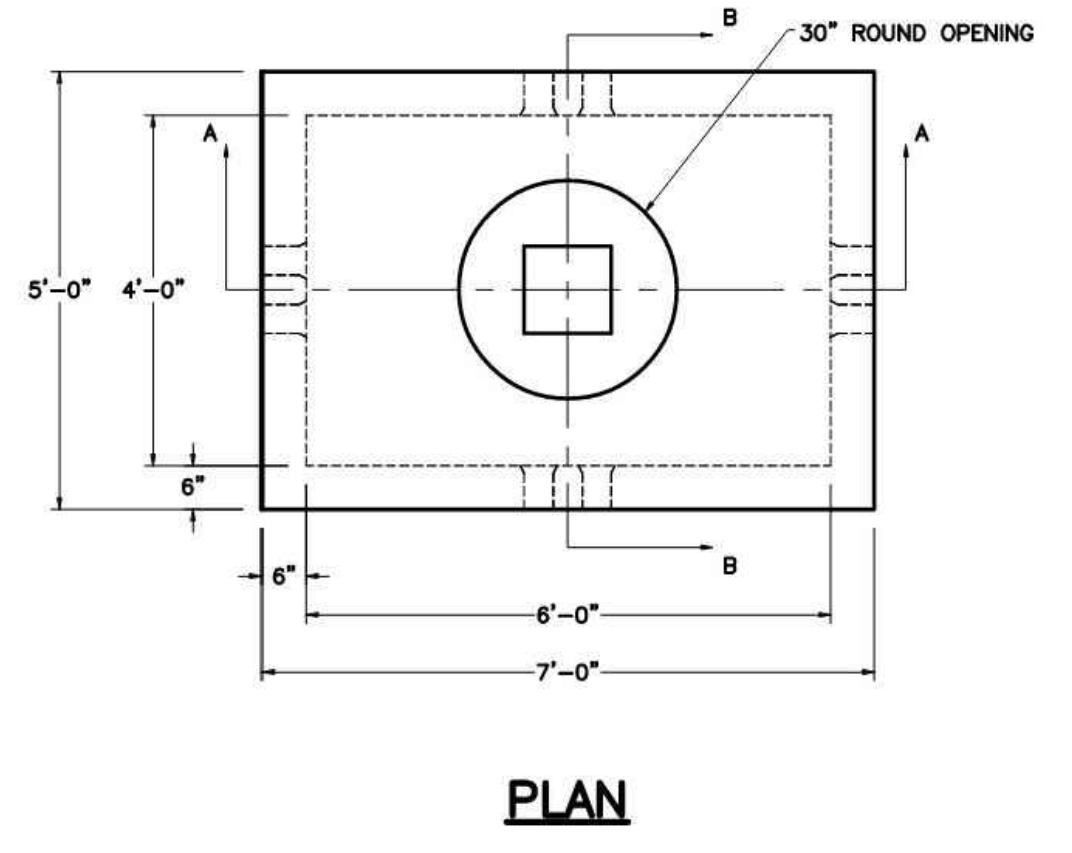


DESCRIPTION	NOMINAL SIZE W x L x D	LOAD RATING	ANSI TIER	PART NUMBER	APPROX. WEIGHT	PALLET QTY.
Box & Cover Assembly	24" x 36" x 12"	10K	8	A6001974APCX12	195 lbs.	8
	24" x 36" x 12"	20K	15 / 22	A6001974TAPCX12 / A6001974HDAPCX12	257 lbs.	8
Box & Cover Assembly	24" x 36" x 18"	10K	8	A6001974APCX18	231 lbs.	4
	24" x 36" x 18"	20K	15 / 22	A6001974TAPCX18 / A6001974HDAPCX18	293 lbs.	4
Box & Cover Assembly	24" x 36" x 24"	10K	8	A6001974APCX24	277 lbs.	2
	24" x 36" x 24"	20K	15 / 22	A6001974TAPCX24 / A6001974HDAPCX24	339 lbs.	2
Box & Cover Assembly	24" x 36" x 30"	10K	8	A6001974APCX30	302 lbs.	2
	24" x 36" x 30"	20K	15 / 22	A6001974TAPCX30 / A6001974HDAPCX30	364 lbs.	2
Box & Cover Assembly	24" x 36" x 36"	10K	8	A6001974APCX36	325 lbs.	2
	24" x 36" x 36"	20K	15 / 22	A6001974TAPCX36 / A6001974HDAPCX36	387 lbs.	2
Box & Cover Assembly	24" x 36" x 42"	10K	8	A6001974APCX42	369 lbs.	2
	24" x 36" x 42"	20K	15 / 22	A6001974TAPCX42 / A6001974HDAPCX42	431 lbs.	2

**24"Wx36"L ARMORCAST  
QUAZITE VAULT**

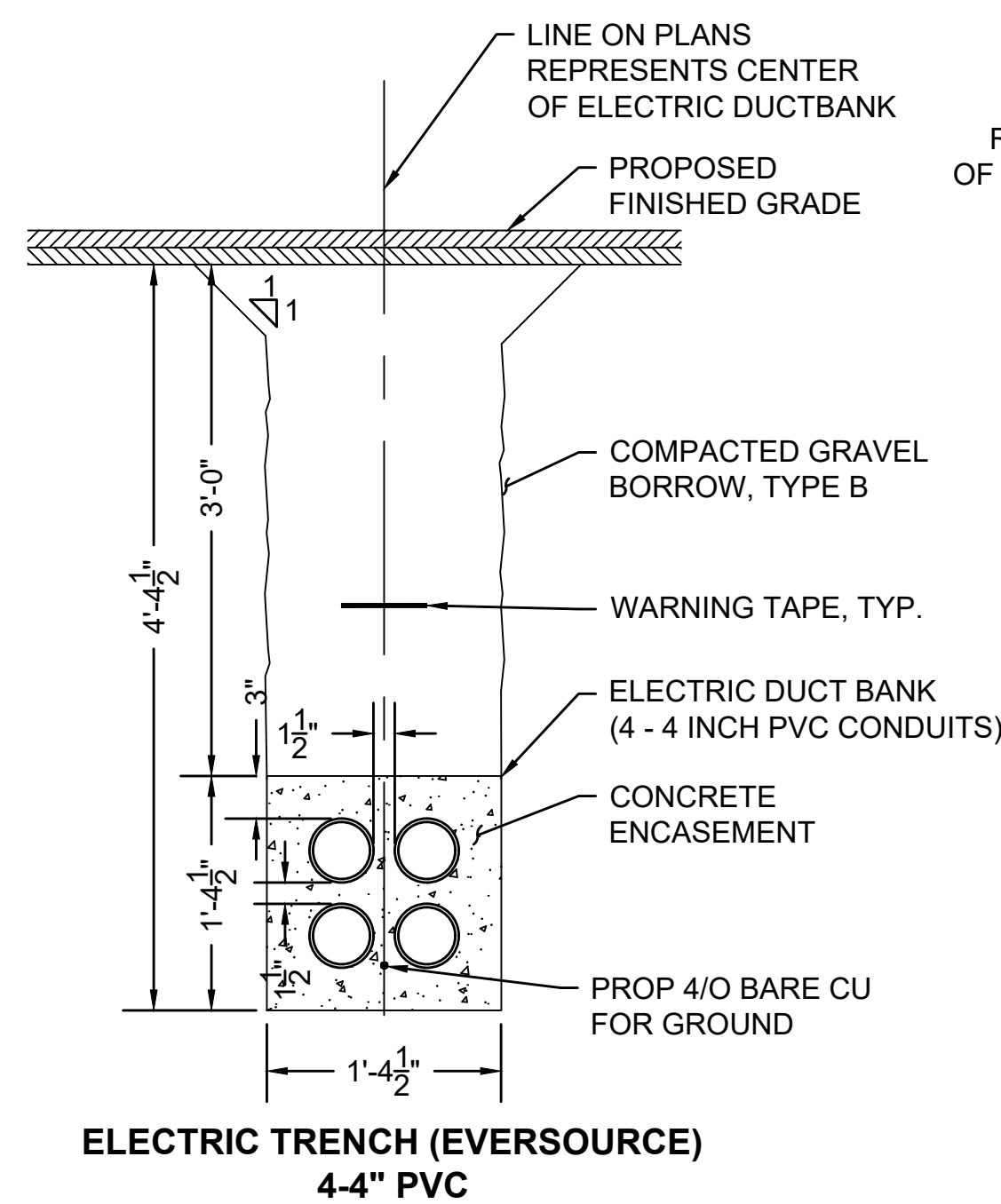


**COMCAST & OPEN CAPE 4'X4'X4' PRECAST  
CONCRETE HANDHOLE**  
NOT TO SCALE

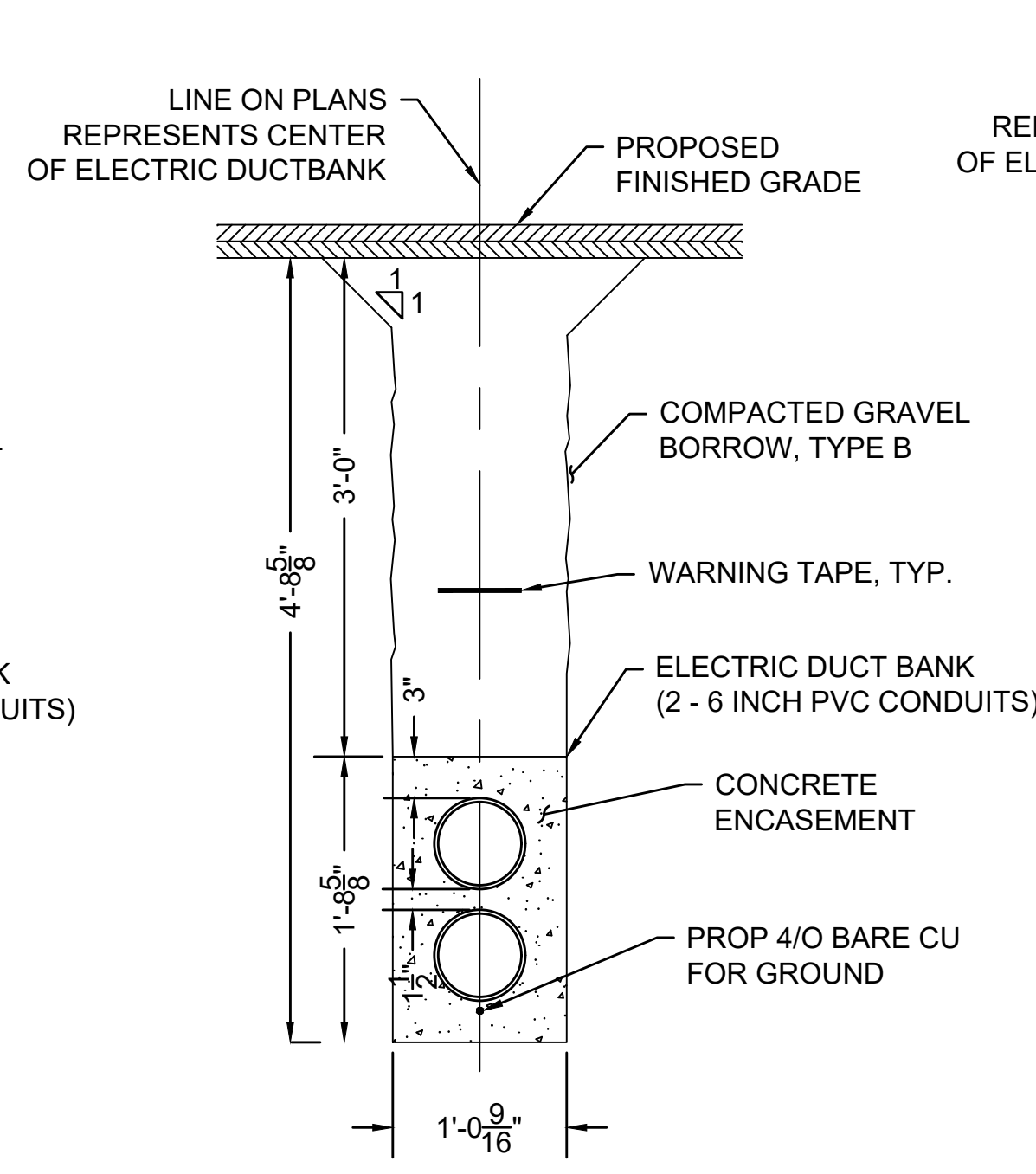


**COMCAST & OPEN CAPE 4'X6'X6' PRECAST  
CONCRETE MANHOLE**  
NOT TO SCALE

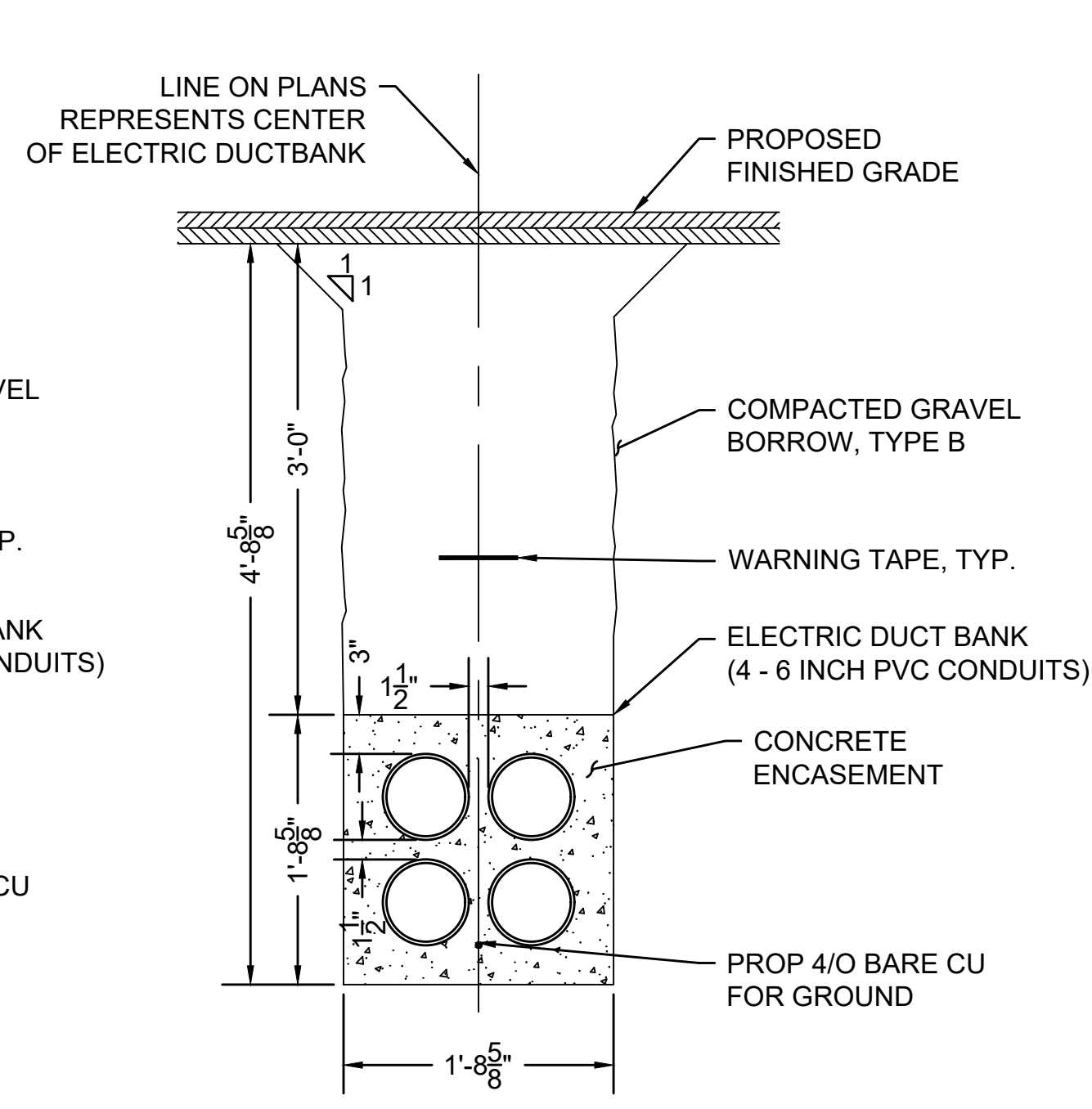




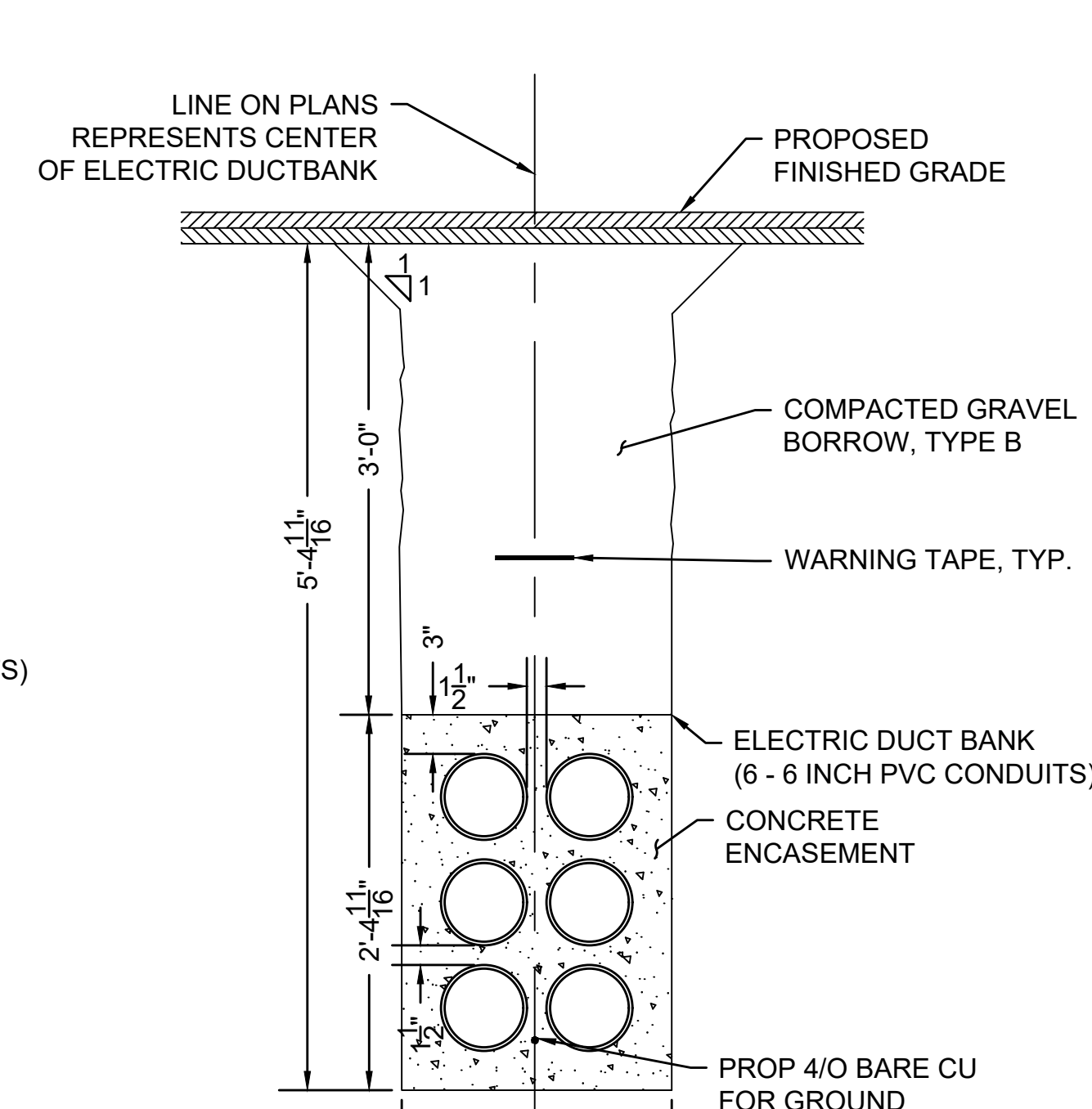
**ELECTRIC TRENCH (EVERSOURCE)  
4.4" PVC**



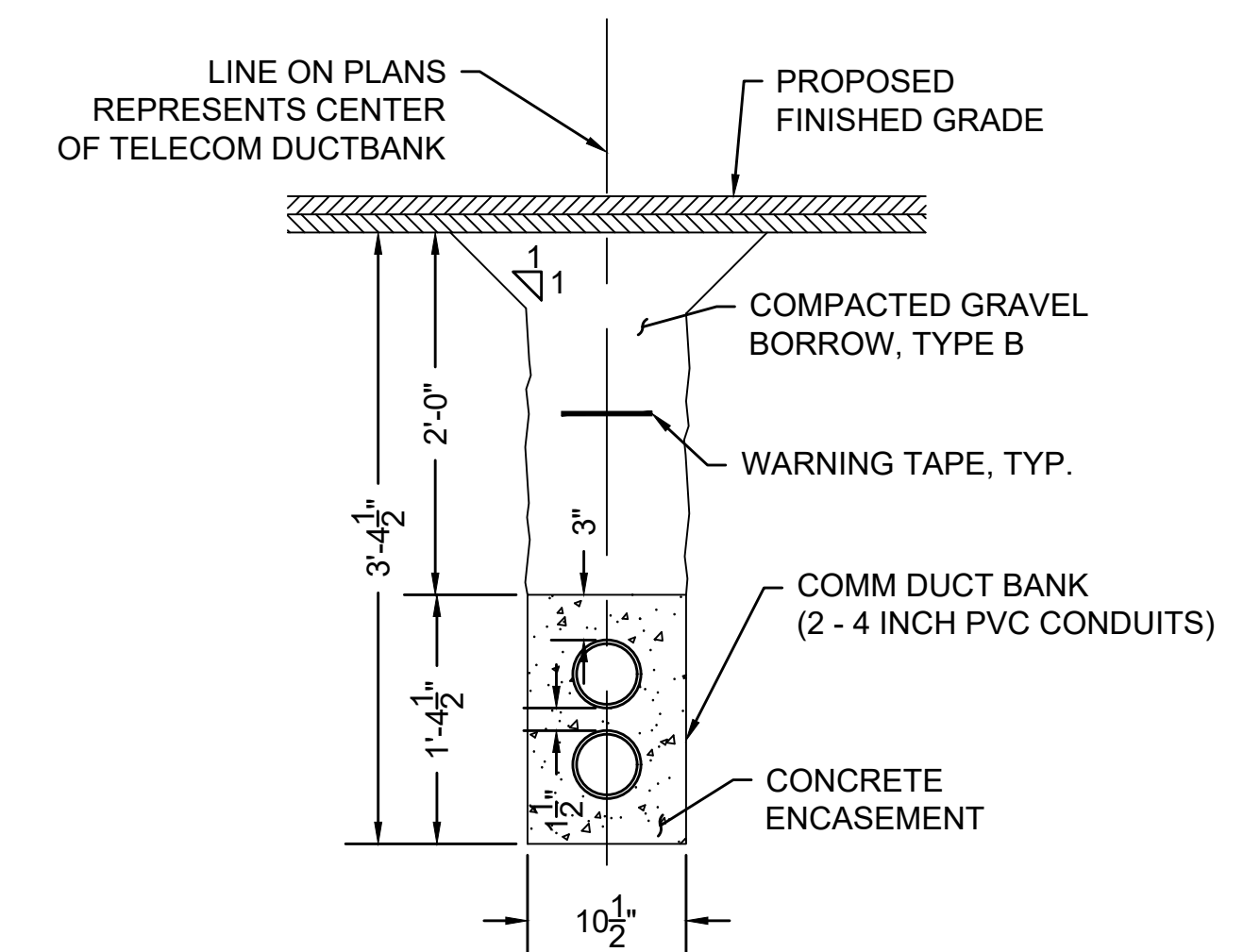
**ELECTRIC TRENCH (EVERSOURCE)  
2.6" PVC**



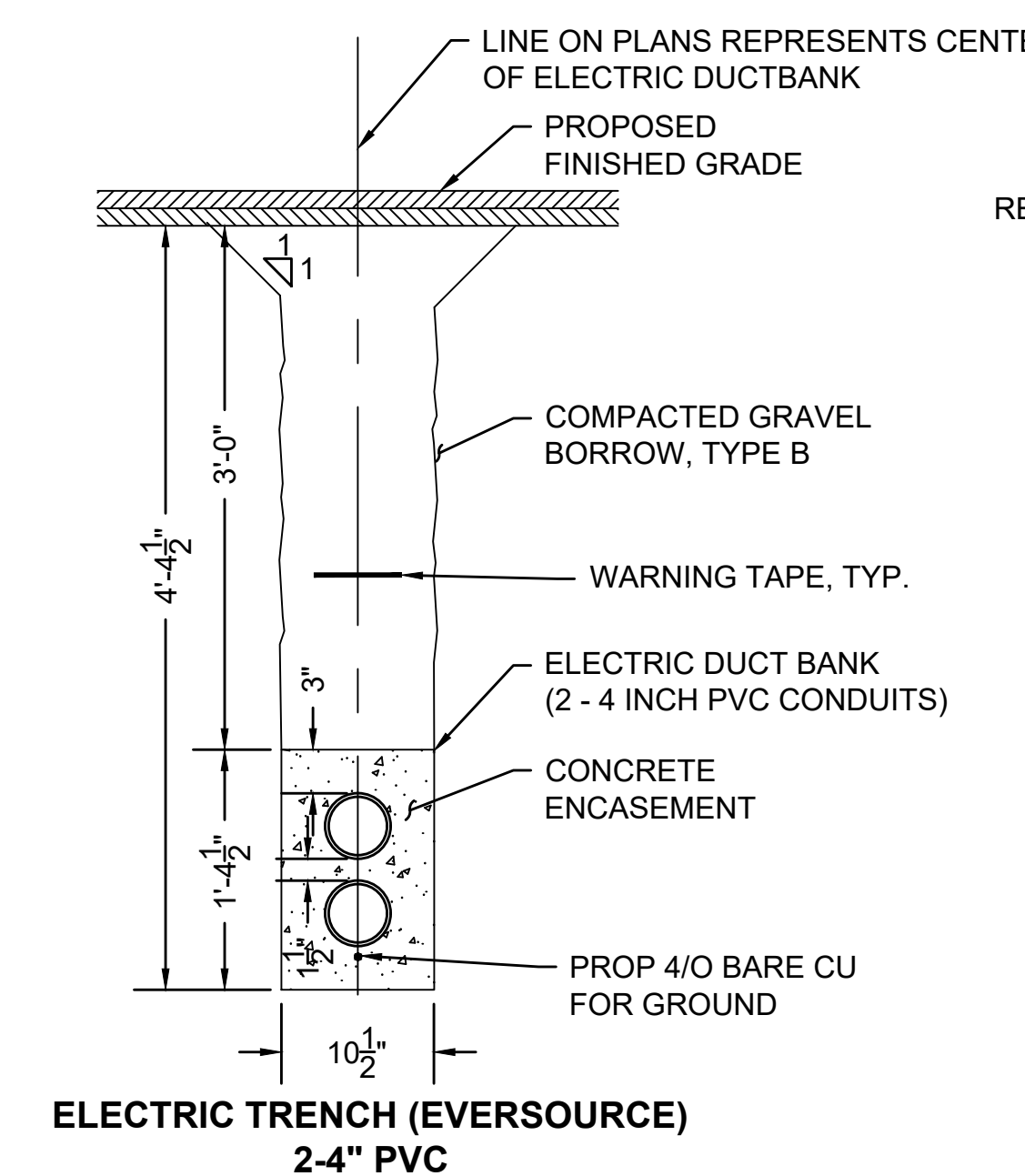
**ELECTRIC TRENCH (EVERSOURCE)  
4.6" PVC**



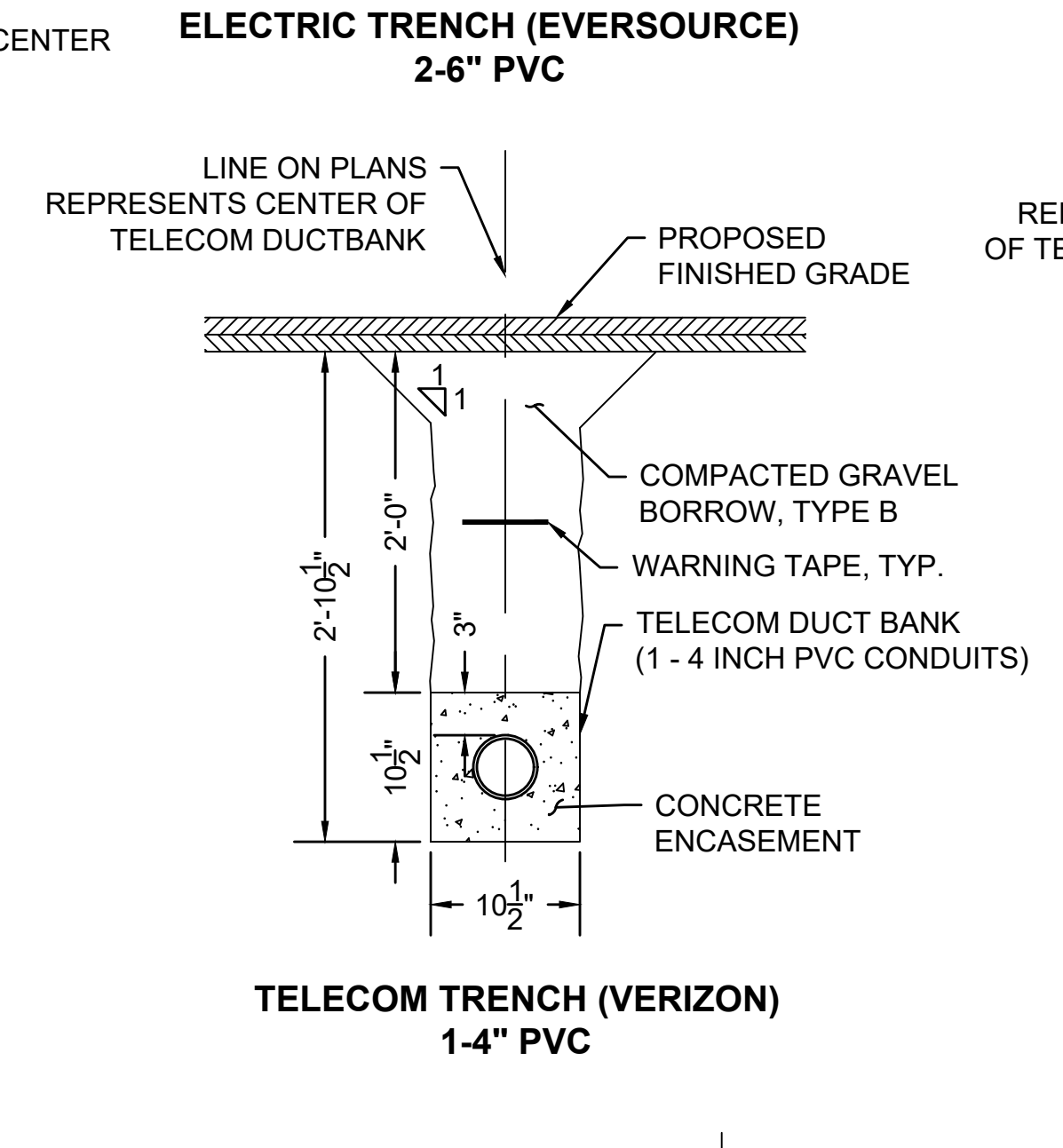
**ELECTRIC TRENCH (EVERSOURCE)  
6.6" PVC**



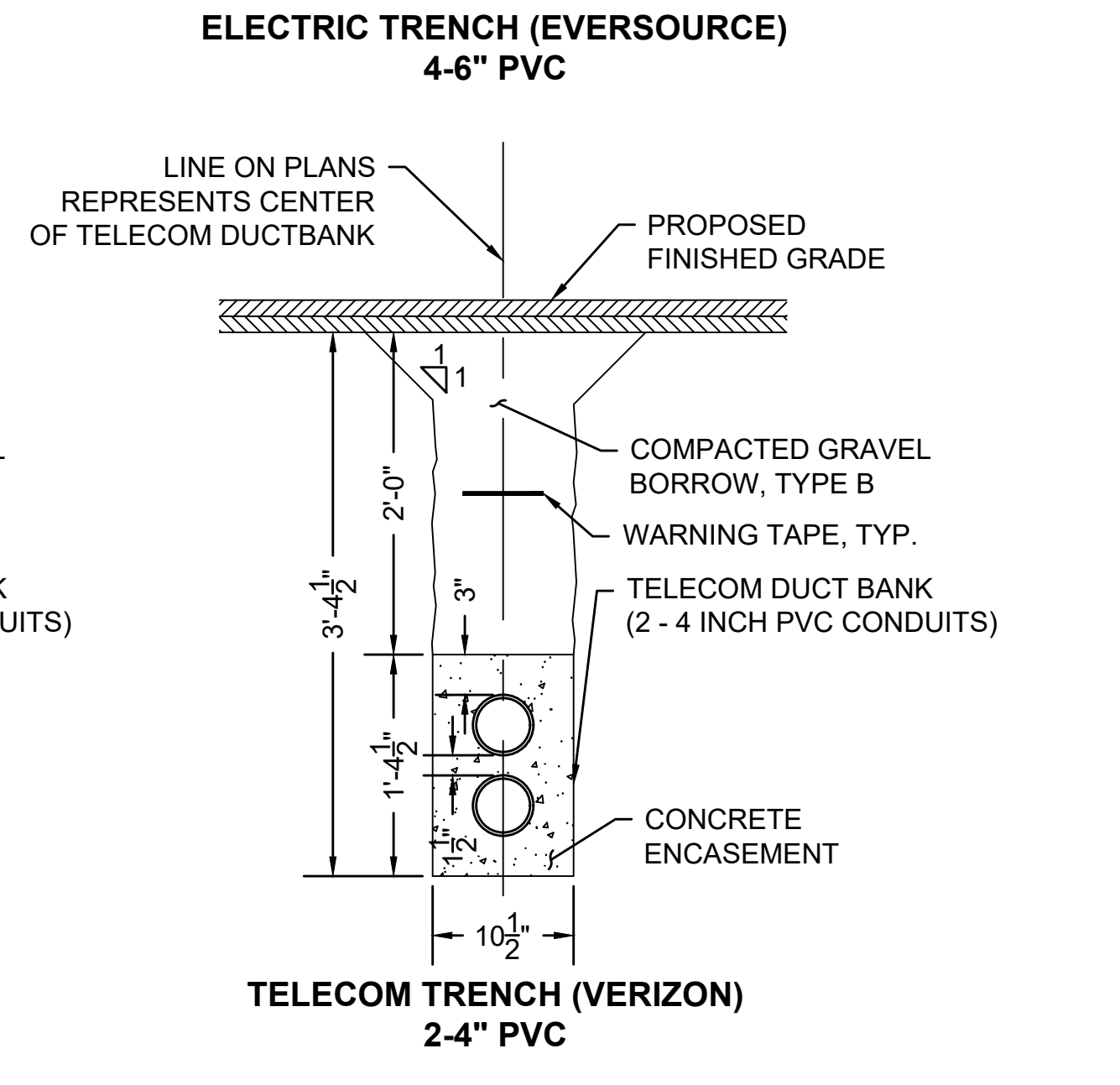
**COMMUNICATION TRENCH (OPEN CAPE)  
2.4" PVC**



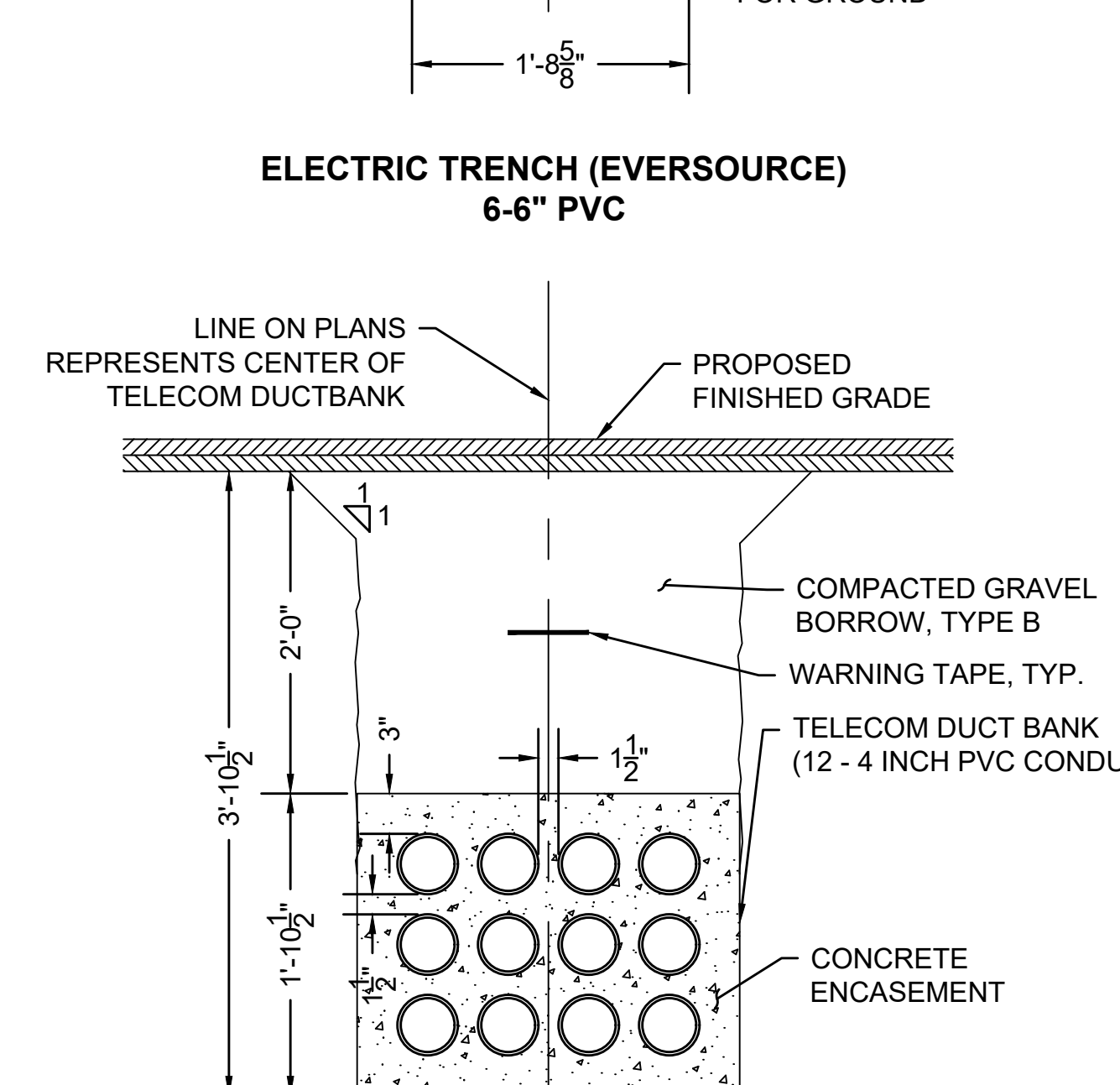
**ELECTRIC TRENCH (EVERSOURCE)  
2.4" PVC**



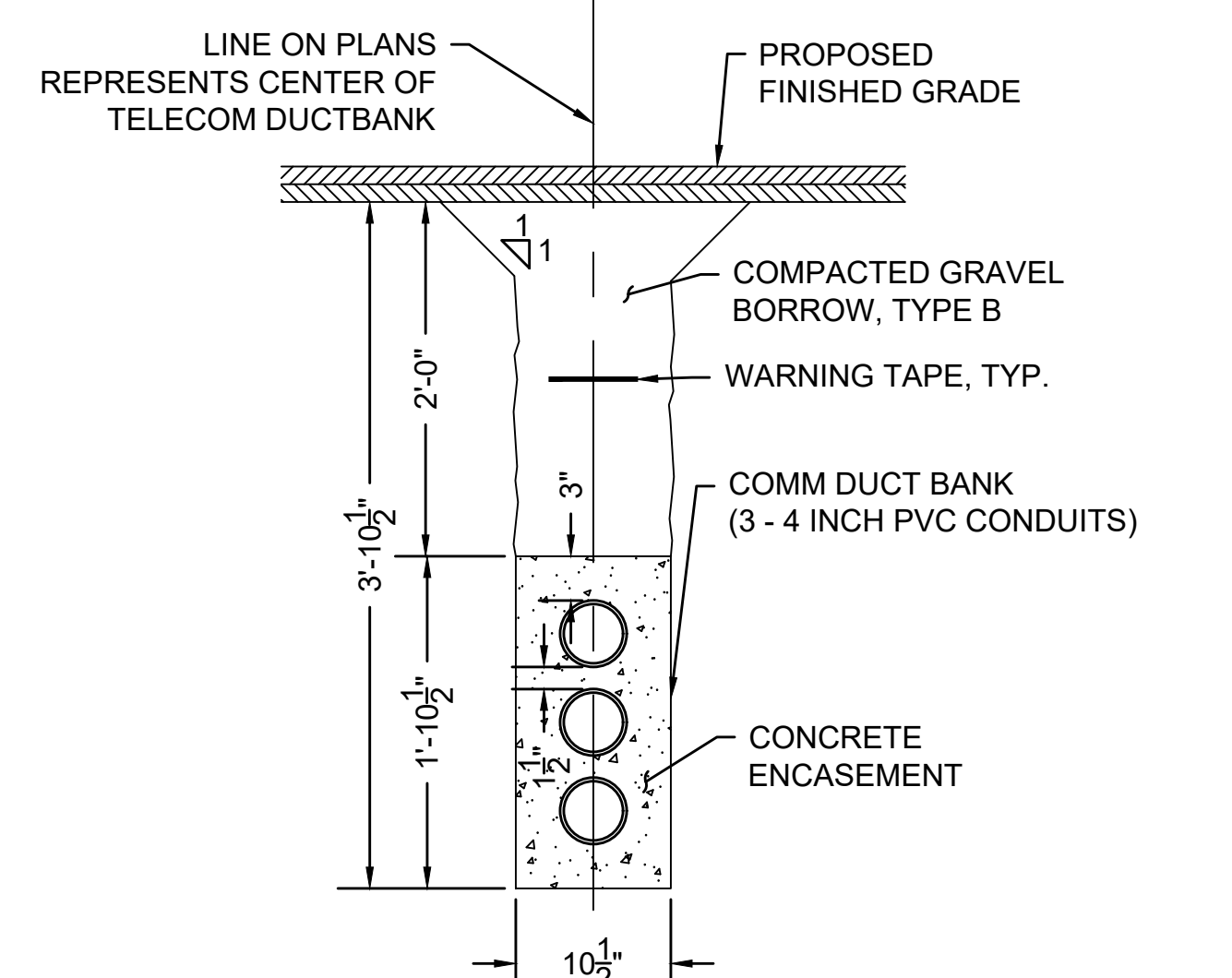
**TELECOM TRENCH (VERIZON)  
1.4" PVC**



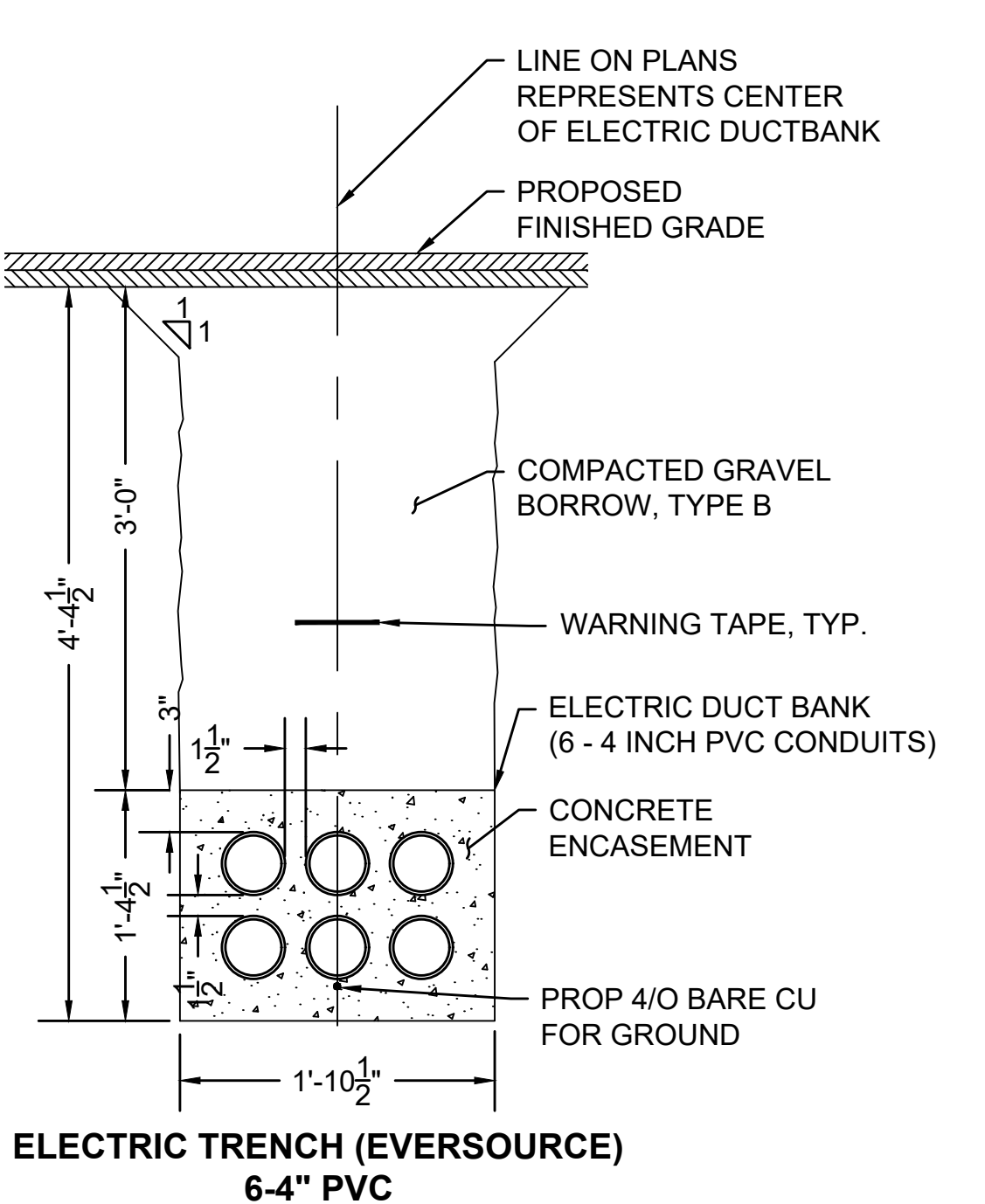
**TELECOM TRENCH (VERIZON)  
2.4" PVC**



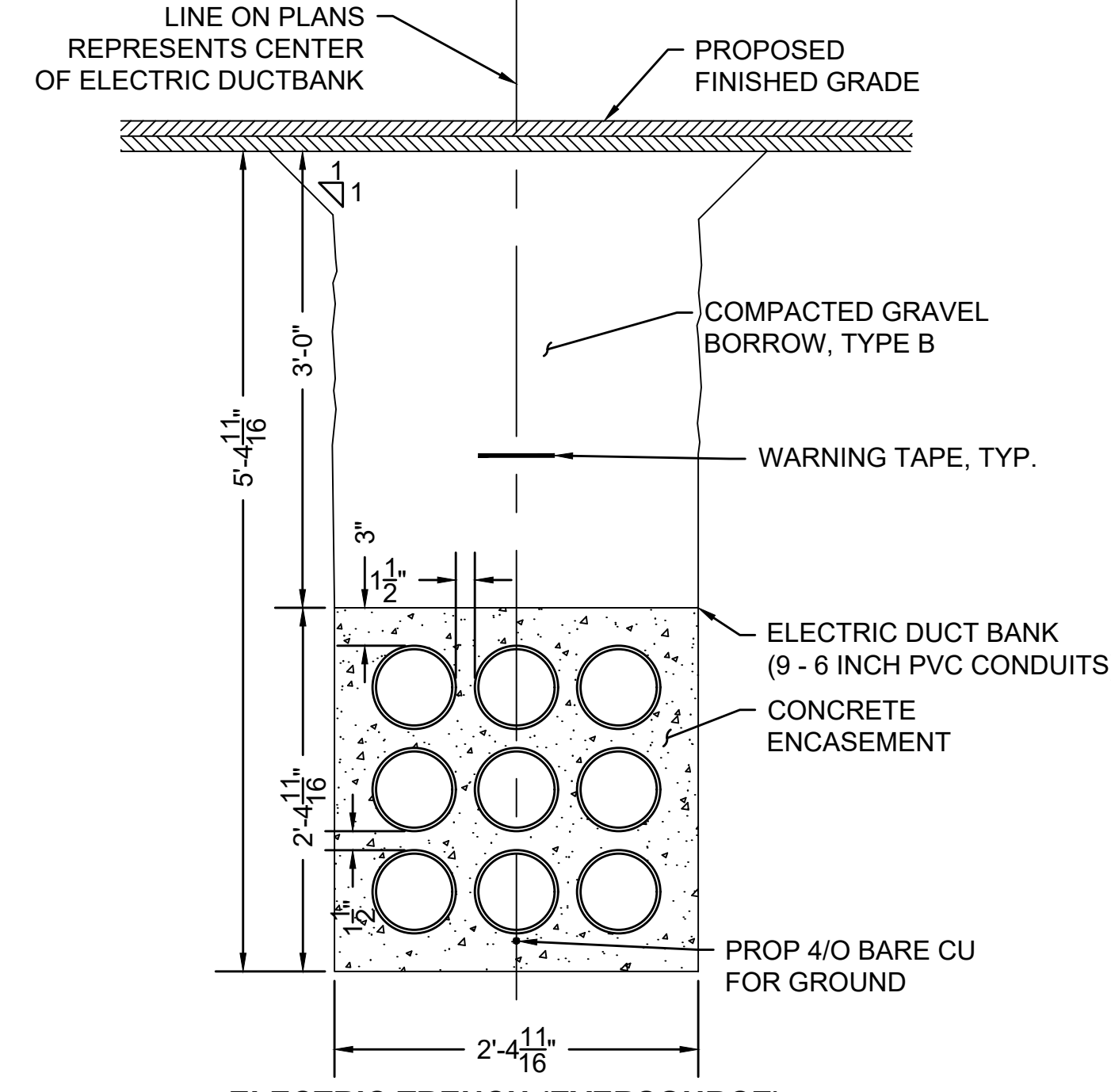
**TELECOM TRENCH (VERIZON)  
12.4" PVC**



**COMMUNICATION TRENCH (COMCAST)  
3.4" PVC**



**ELECTRIC TRENCH (EVERSOURCE)  
6.4" PVC**

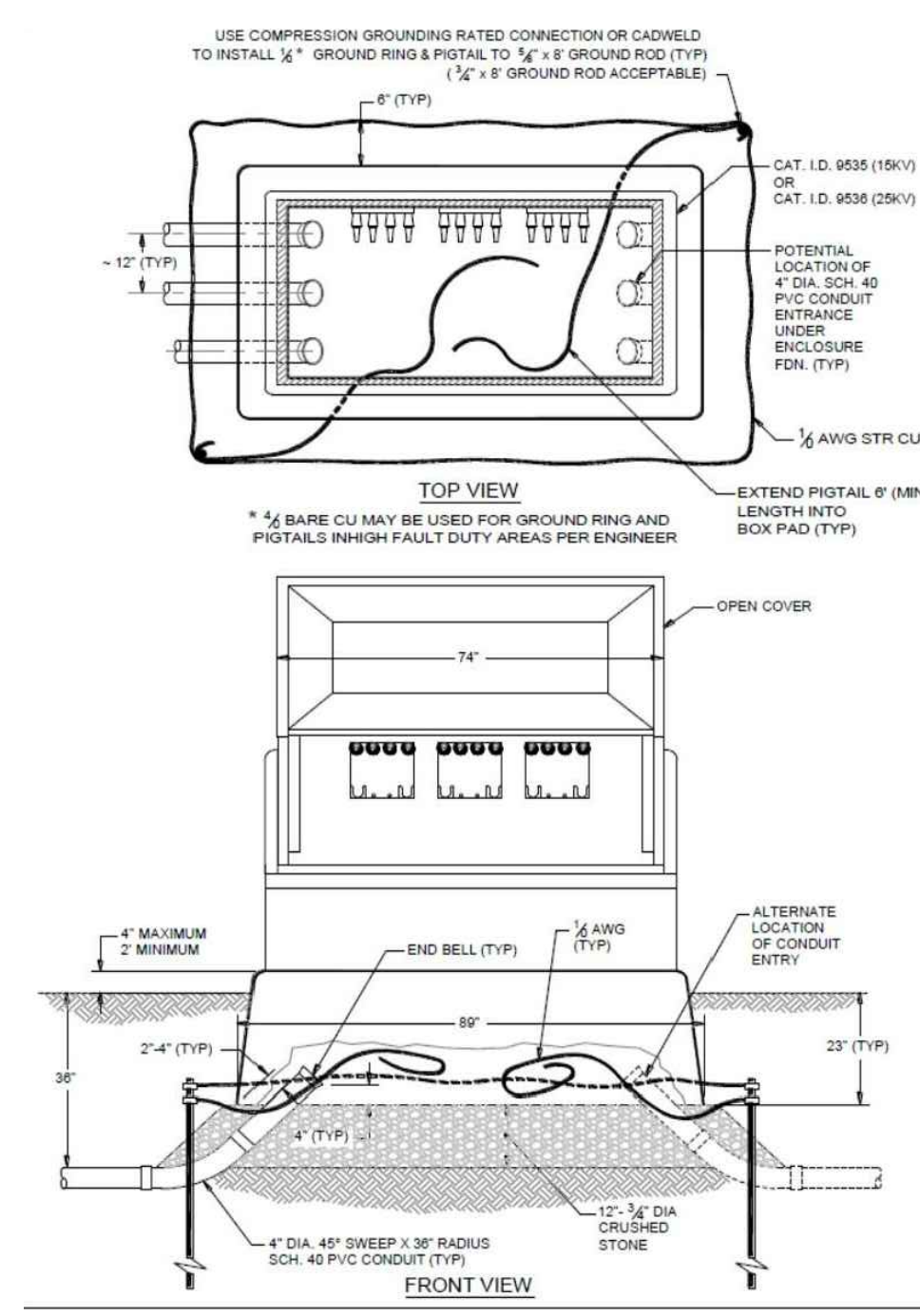
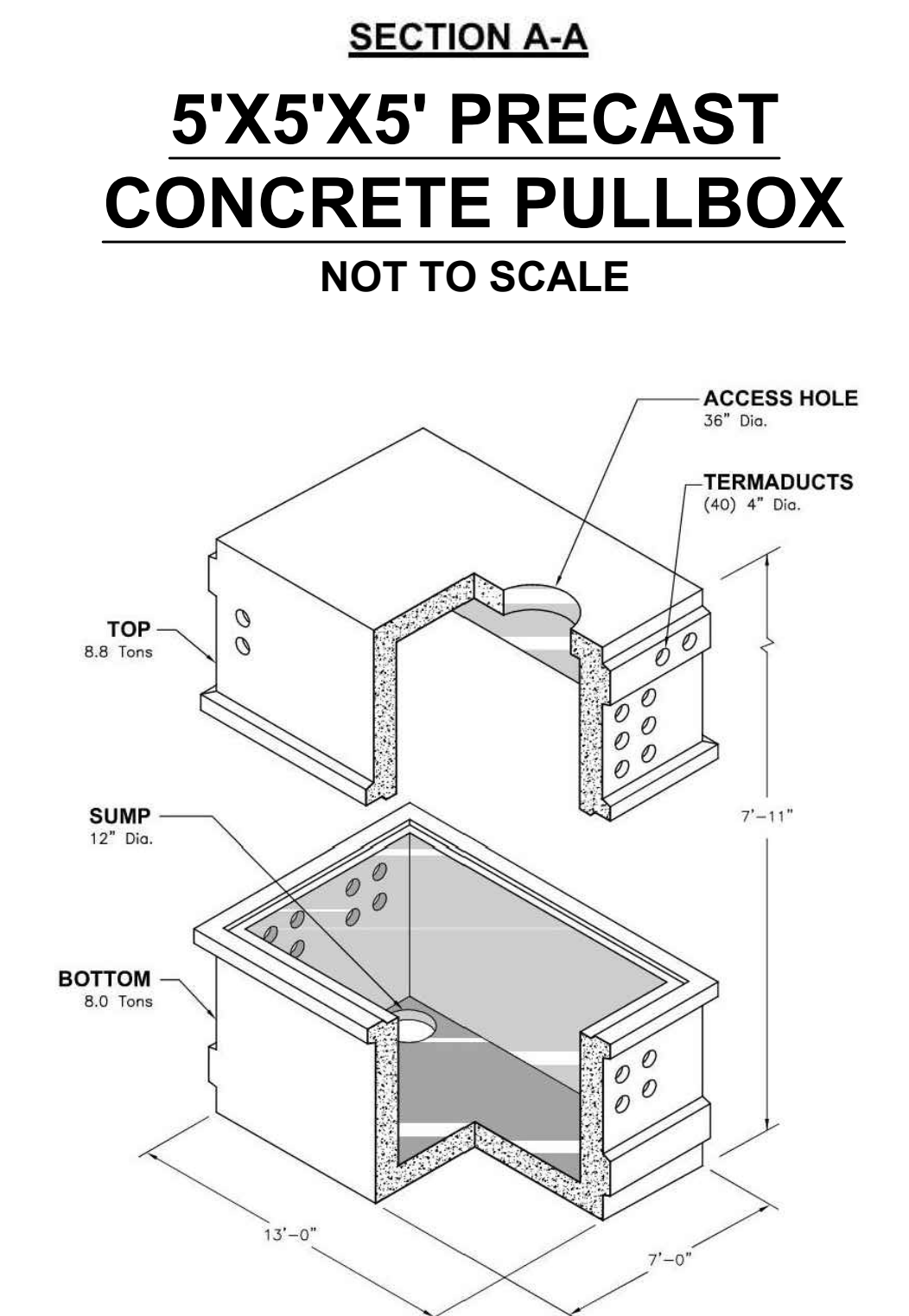
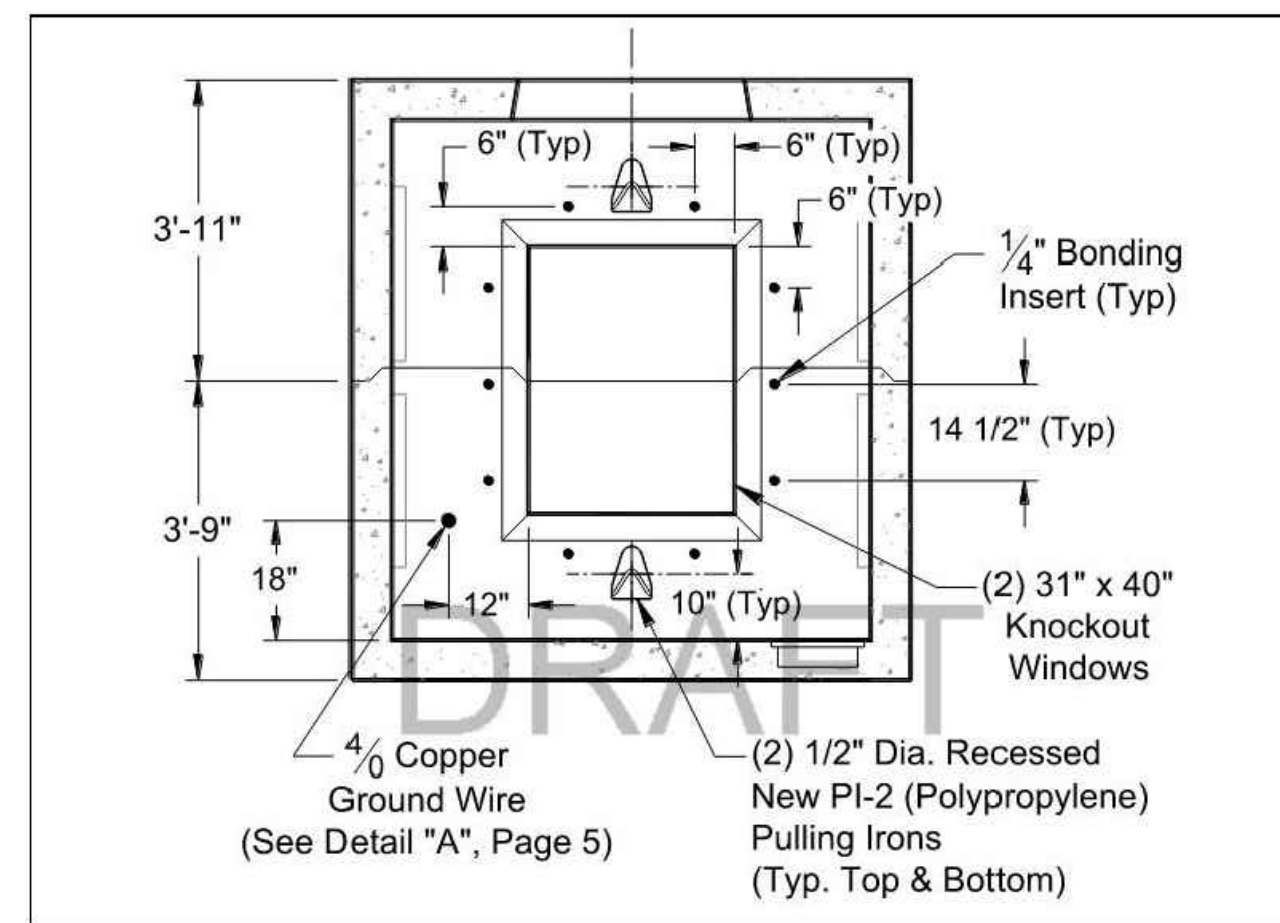
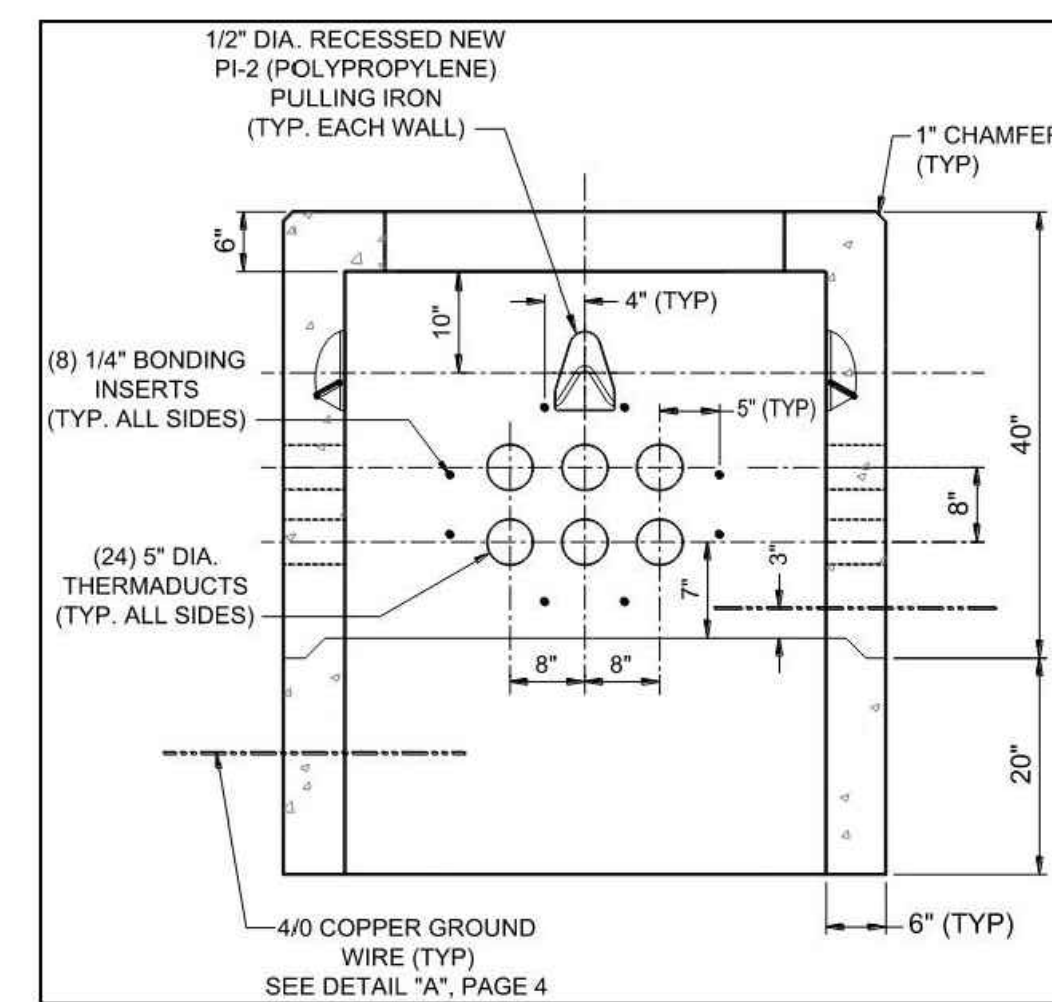
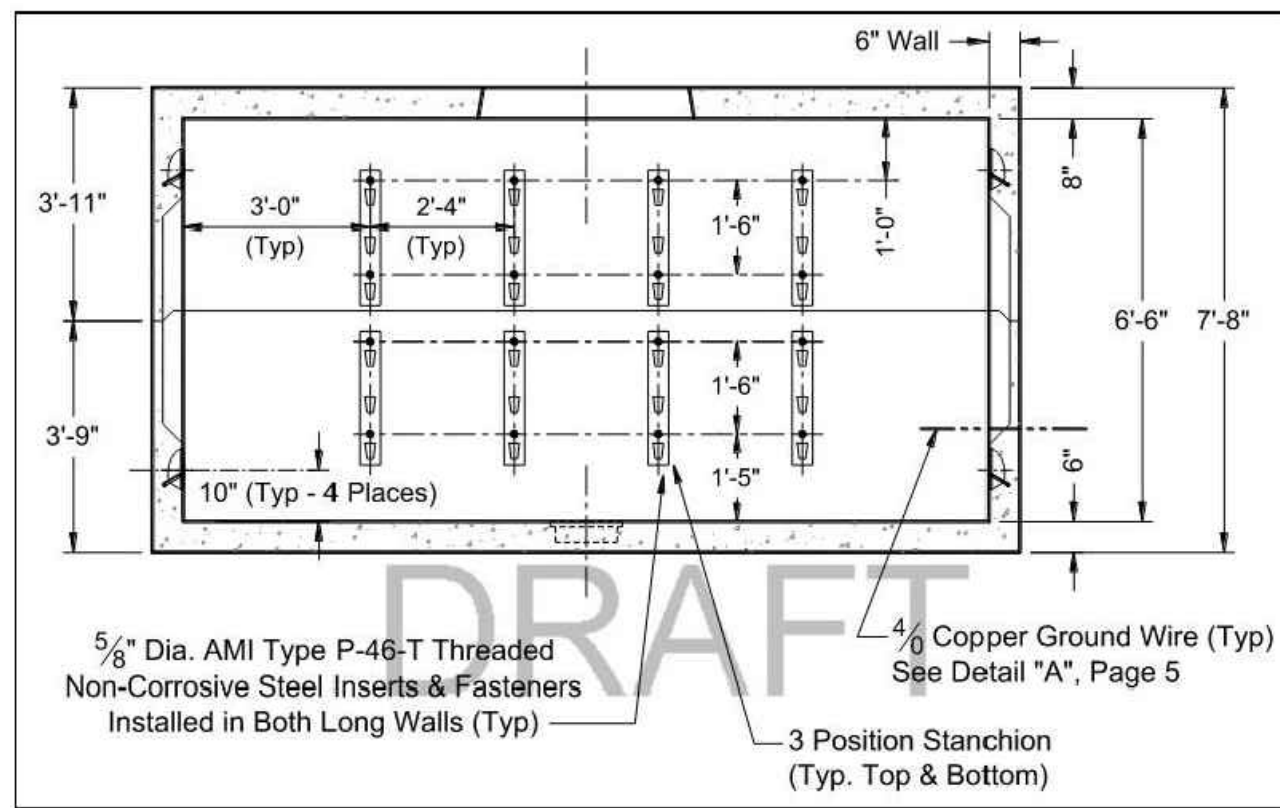
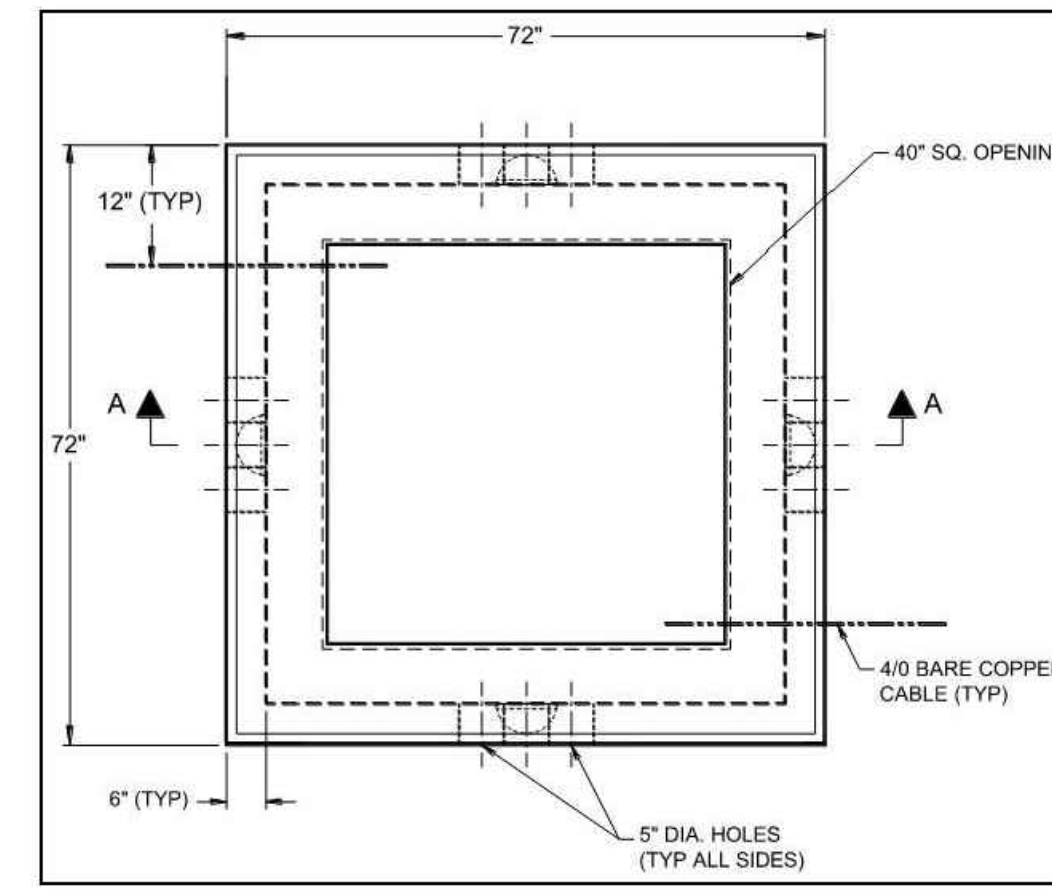
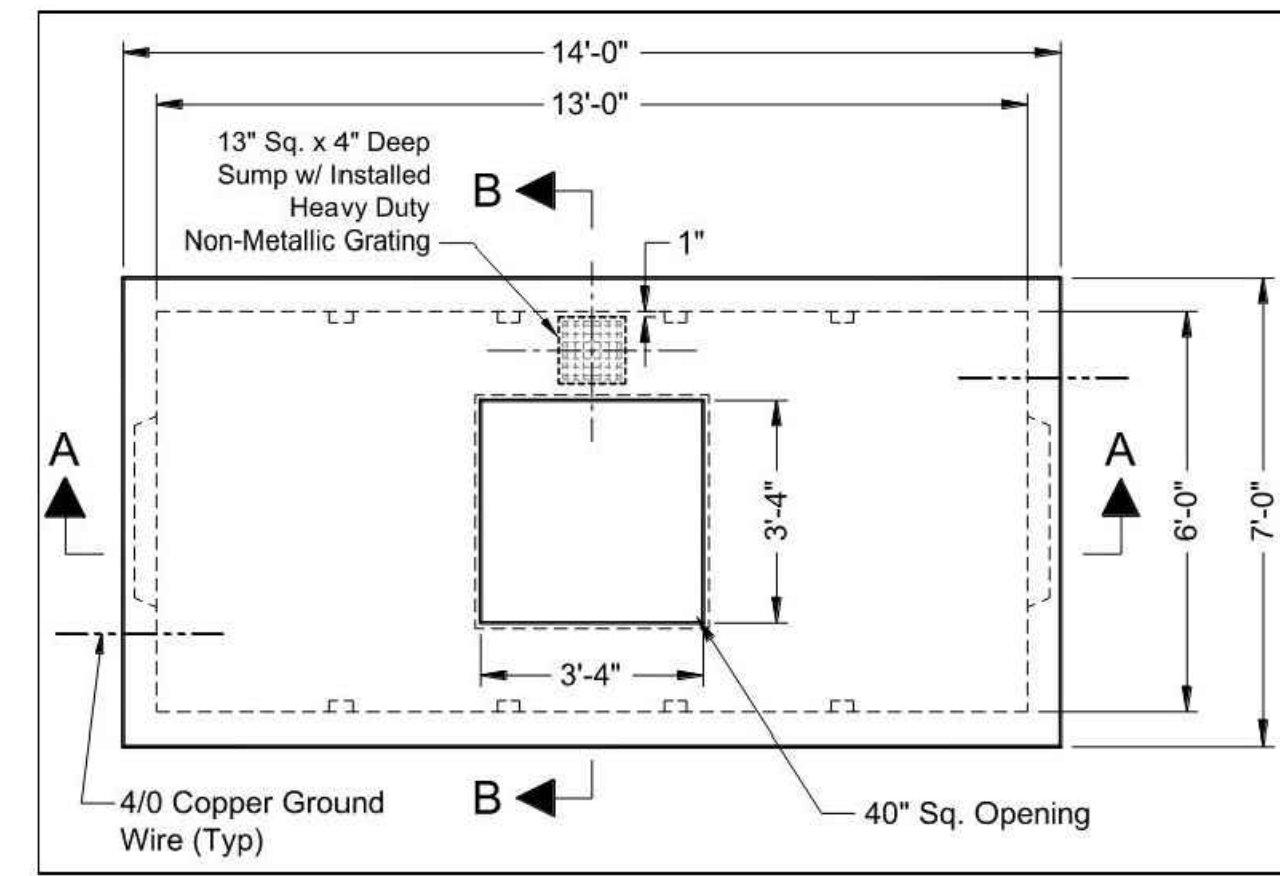


**ELECTRIC TRENCH (EVERSOURCE)  
9.6" PVC**

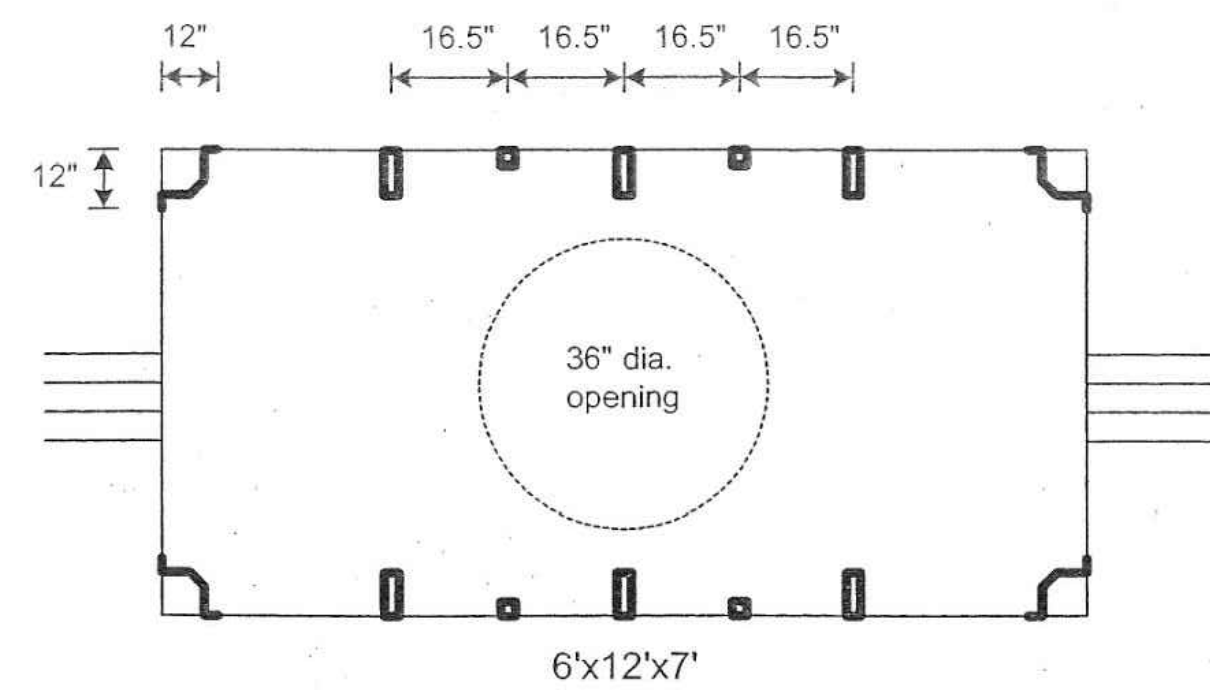
**UTILITY TRENCH NOTES**

- ALL CONSTRUCTION OF DUCT BANKS INCLUDING TRENCH, EXCAVATION, AND BACKFILL SHALL CONFORM TO UTILITY DETAILS AND SPECIFICATIONS.
- FOR ALL DUCTS USE SCHEDULE 40 CONDUITS ENCASED IN 2,500 PSI, 3/8 INCH, 520 CEMENT CONCRETE CONCRETE. USE PLASTIC SPACERS TO MAINTAIN CONDUIT SPACING. SPACERS SHALL MEET UTILITY SPECIFICATIONS FOR DESIGN AND SPACING.
- ALL TRENCH EXCAVATION ACTIVITIES SHALL COMPLY WITH ALL APPROPRIATE OSHA STANDARDS.
- EACH DUCT BANK SHALL HAVE ASSOCIATED WARNING TAPE INSTALLED. ELECTRIC DUCT BANKS WILL HAVE 6 INCH, COLOR RED, DETECTABLE METALLIC WARNING TAPE PLACED 12 INCHES ABOVE CONCRETE ENCASEMENT. TELEPHONE AND CATV DUCT BANKS WILL HAVE 6 INCH, COLOR ORANGE, DETECTABLE METALLIC WARNING TAPE PLACED 12 INCHES ABOVE EACH CONCRETE ENCASEMENT.
- A UTILITY COMPANY REPRESENTATIVE FROM EVERSOURCE SHALL BE PRESENT FOR ALL ELECTRICAL CONDUIT INSTALLED.
- A UTILITY COMPANY REPRESENTATIVE FROM VERIZON SHALL BE PRESENT FOR ALL TELEPHONE CONDUIT INSTALLED.
- A UTILITY COMPANY REPRESENTATIVE FROM COMCAST SHALL BE PRESENT FOR ALL COMCAST OWNED COMMUNICATION CONDUIT INSTALLED.
- A UTILITY COMPANY REPRESENTATIVE FROM OPEN CAPE SHALL BE PRESENT FOR ALL OPEN CAPE OWNED COMMUNICATION CONDUIT INSTALLED.
- A MINIMUM OF 12 INCHES OF SEPARATION IS REQUIRED FOR CROSSINGS WITH GAS, WATER, SEWER AND DRAINAGE.
- CONDUITS SHALL BE BLOWN CLEAN USING COMPRESSED AIR. RUN MANDREL THRU EACH CONDUIT TO CONFIRM VIABLE PATHWAY.
- WOVEN POLYESTER MULE TAPE WITH MINIMUM STRENGTH OF 2500 LB TENSILE STRENGTH TO BE INSTALLED WITHIN EACH CONDUIT.

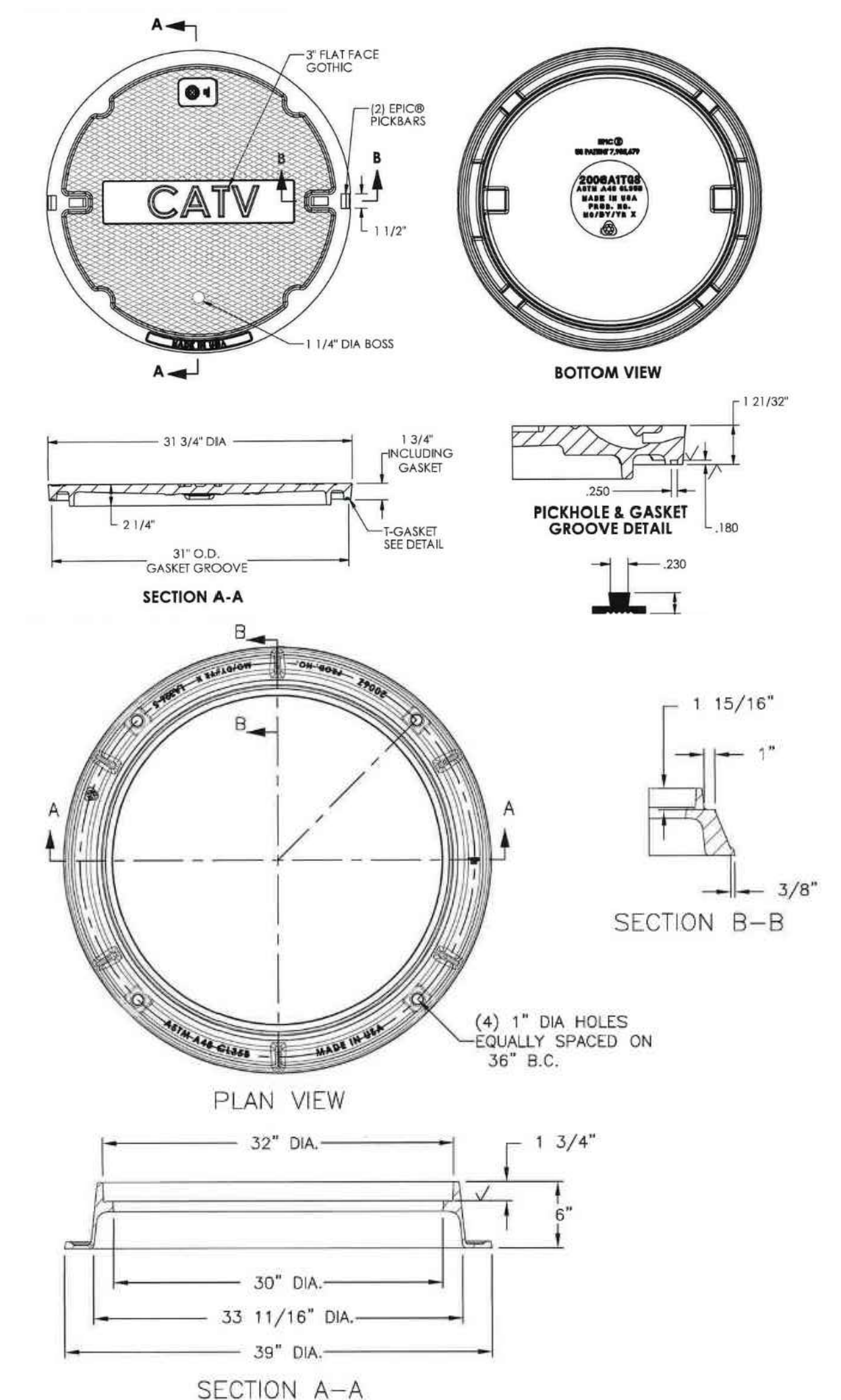




**25kV SWITCHING  
ENCLOSURE  
NOT TO SCALE**



CATALOG NO. STANDARD	CATALOG NO. SECURITY BOLTED	A	B	C	E	F	ANCHOR BOLT CIRCLE
R-1750-C	R-1750-CB	32	1 3/8	30	49	10	43 1/2



**EVERSOURCE STANDARD  
MANHOLE  
NOT TO SCALE**

**VERIZON STANDARD  
MANHOLE  
NOT TO SCALE**

**VERIZON TELECOM COVER  
AND RACKING  
NOT TO SCALE**

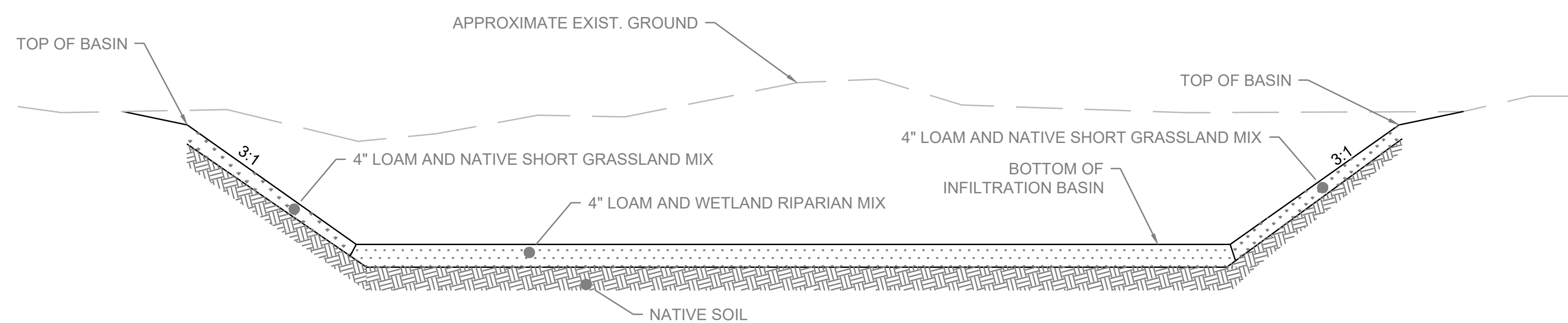
**COMCAST FRAME  
AND COVER  
NOT TO SCALE**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

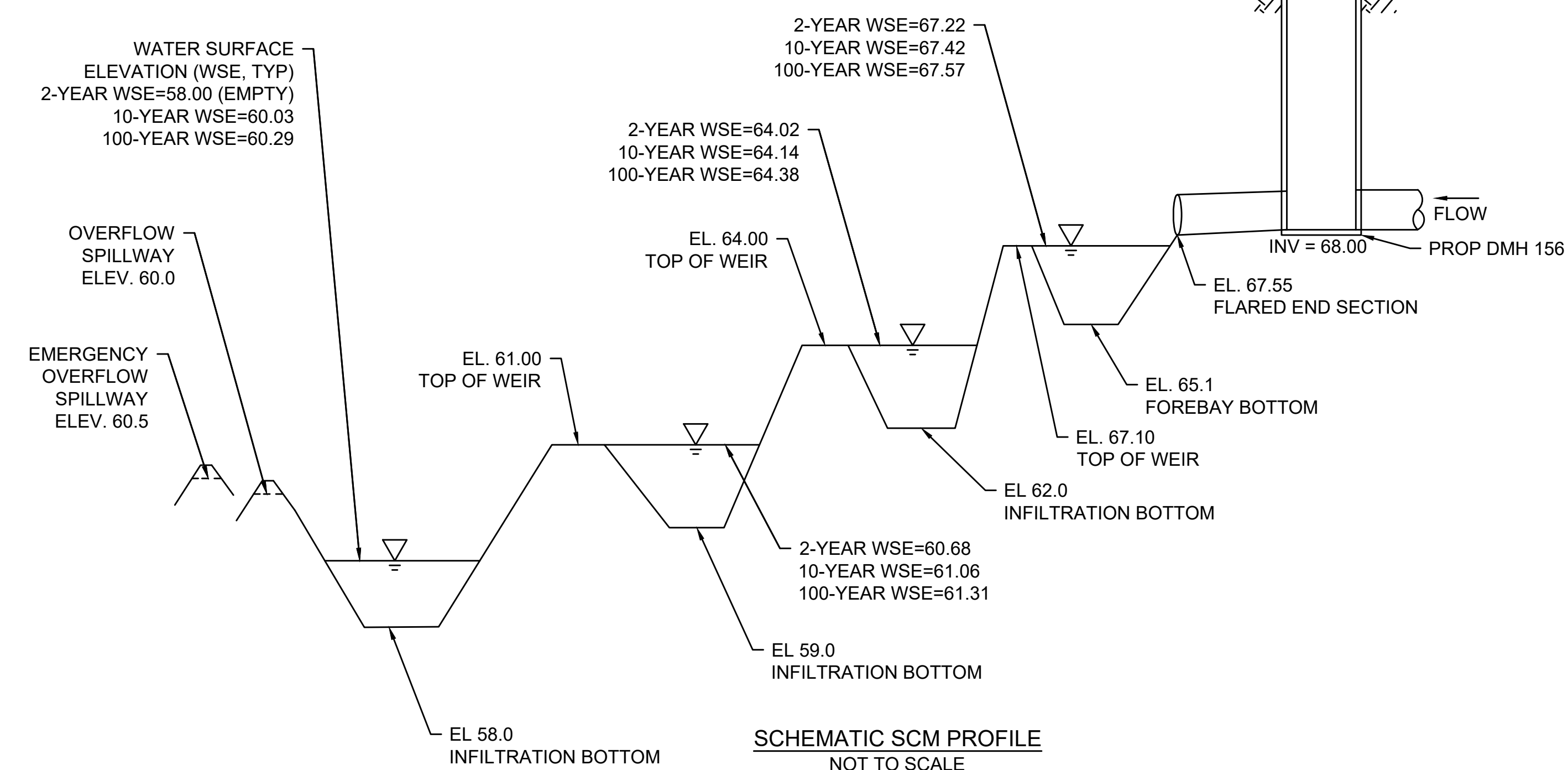
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	187	272
PROJECT FILE NO.		606082	

**CONSTRUCTION DETAILS  
SHEET 8 OF 12**

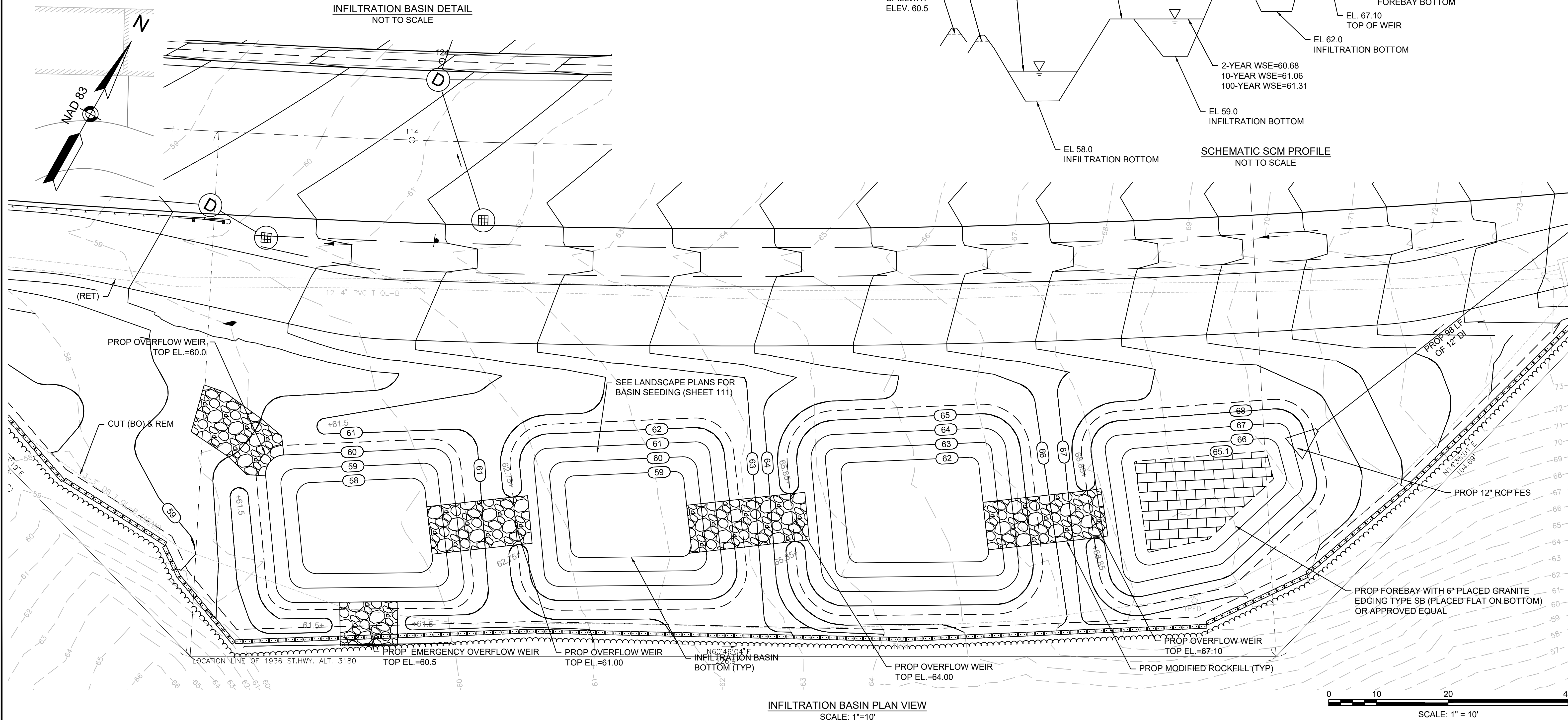


- NOTES:  
1. APPLY WETLAND RIPARIAN MIX TO FLAT BOTTOM AREAS WITHIN PROPOSED SCM GRADING AND NATIVE SHORT GRASSLAND MIX ON SIDE SLOPE AREAS WITHIN SCM.

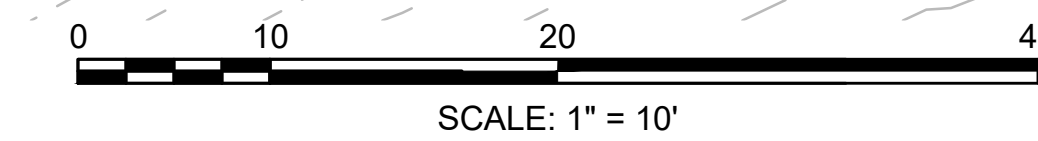
**INFILTRATION BASIN DETAIL  
NOT TO SCALE**



**SCHEMATIC SCM PROFILE  
NOT TO SCALE**



**INFILTRATION BASIN PLAN VIEW  
SCALE: 1" = 10'**





TYP STRUCTURE ABBREVIATIONS:

DMH: DRAIN MANHOLE  
 DDMH: DOGHOUSE DRAIN MANHOLE  
 CB: CATCH BASIN  
 CB-E: CATCH BASIN WITH ECCENTRIC TOP  
 CO: CLEAN OUT  
 DI: DROP INLET  
 FES: FLARED END SECTION  
 CIT: CHANGE IN TYPE  
 RMD: REMODEL  
 RET: RETAIN  
 ADJ: ADJUST  
 HW: HEADWALL

OCS: OUTLET CONTROL STRUCTURE

BOURNE  
 MEDIAN INSTALLATION ON  
 ROUTE 6 (SCENIC HIGHWAY)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)	188	272
PROJECT FILE NO.		606082	

CONSTRUCTION DETAILS  
 SHEET 9 OF 12

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-100	104+40.65	25.0 L	36.72		I=32.58' (EX DMH-600)	CB
CB-101	104+46.52	30.7 R	37.17		I=34.35' (EX DMH-600)	CB-E
CB-102	107+00.12	26.4 R	48.81		I=45.10' (EX DMH-601)	CB-E
CB-104	108+59.60	26.4 R	54.66		I=50.11' (DMDMH-103)	CB-E
CB-105	110+51.06	26.4 R	59.05		I=55.30' (EX DMH-623)	CB-E
CB-106	112+81.86	28.4 R	60.38		I=55.92' (DMH-107)	CB-E
CB-108	114+67.25	32.4 L	58.78		I=55.40' (DMH-110)	CB
CB-109	114+96.26	32.4 R	60.38		I=55.86' (DMH-110)	CB-E
CB-111	115+95.47	32.4 R	60.09		I=55.56' (DMH-113)	CB-E
CB-112	115+94.87	3.0 R	58.89		I=54.64' (DMH-113)	CB
CB-114	119+87.72	32.4 R	57.26		I=52.89' (DMH-308)	CB-E
CB-115	116+92.79	32.4 R	59.39		I=53.90' (DMH-117)	CB-E
CB-116	116+93.03	3.0 R	58.19		I=53.20' (DMH-117)	CB
CB-119	117+42.20	33.0 L	56.03		I=51.12' (DMH-120)	CB
CB-122	117+90.97	3.0 R	57.48		I=52.75' (DMH-124)	CB
CB-123	117+89.83	32.4 R	58.69		I=54.24' (DMH-124)	CB-E
CB-125	118+88.99	3.0 R	56.78		I=52.34' (DMH-127)	CB
CB-126	118+89.35	32.4 R	57.97		I=53.56' (DMH-127)	CB-E
CB-128	119+83.57	3.0 R	56.10		I=51.70' (DMH-308)	CB
CB-129	120+93.55	3.0 R	55.34		I=52.30' (DMH-346)	CB

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-130	120+93.89	32.4 R	56.54		I=52.05' (DMH-131)	CB-E
CB-133	120+88.63	33.0 L	53.57		I=49.25' (DMH-346)	CB
CB-134	121+18.52	3.0 R	55.29		I=52.30' (DMH-315)	CB
CB-135	121+18.47	32.4 R	56.49		I=52.32' (DMH-137)	CB-E
CB-136	121+43.86	32.9 L	53.53		I=48.90' (DMH-141)	CB
CB-138	121+39.70	3.0 R	55.31		I=50.31' (DMH-140)	CB
CB-139	121+46.81	32.4 R	56.54		I=52.21' (DMH-140)	CB-E
CB-144	122+56.93	3.0 R	56.59		I=52.90' (DMH-146)	CB
CB-148	124+11.11	32.4 L	59.46		I=55.20' (DMH-149)	CB-E
CB-150	124+56.83	3.0 R	63.24		I=54.47' (DMH-149)	CB
CB-151	124+09.48	33.0 R	62.34		I=54.70' (DMH-149)	CB
CB-152	126+57.52	3.0 R	74.45		I=70.17' (DMH-156)	CB
CB-153	126+57.19	32.4 R	75.63		I=69.35' (DMH-156)	CB-E
CB-158	126+59.15	32.4 L	72.77		I=68.65' (DMH-155)	CB-E
CB-160	128+26.04	3.0 R	84.16		I=80.40' (DMH-159)	CB
CB-161	128+29.94	32.4 R	85.58		I=81.33' (DMH-159)	CB-E
CB-162	130+47.95	32.4 L	91.93		I=86.25' (DMH-349)	CB-E
CB-164	130+49.33	3.1 R	93.74		I=90.00' (DMH-167)	CB
CB-165	130+25.43	32.4 R	94.19		I=89.94' (DMH CIT-168)	CB-E
CB-170	136+39.55	32.4 L	90.89		I=87.61' (DMH CIT-173)	CB-E

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-171	136+04.02	32.4 R	91.76		I=87.94' (EX DMH-624)	CB-E
CB-175	138+49.01	32.4 L	85.91		I=82.21' (DMH CIT-178)	CB-E
CB-177	138+63.98	32.4 R	85.62		I=81.62' (EX DMH-602)	CB-E
CB-179	141+23.79	32.4 L	82.93		I=78.73' (DMH CIT-181)	CB-E
CB-180	141+28.30	32.4 R	82.92		I=79.40' (DMH-183)	CB-E
CB-185	141+48.79	32.4 L	82.91		I=78.80' (DMH-187)	CB-E
CB-188	141+73.86	32.4 L	82.93		I=78.73' (DMH-187)	CB-E
CB-189	141+73.79	33.0 R	82.92		I=79.50' (DMH-183)	CB
CB-191	144+51.05	32.9 R	84.71		I=80.10' (EX DMH-604)	CB
CB-193	142+95.48	32.4 L	83.58		I=79.68' (DMH-194)	CB-E
CB-203	145+56.29	32.4 L	85.49		I=81.80' (DMH-351)	CB-E
CB-209	147+86.65	32.4 L	87.17		I=83.27' (DMH-207)	CB-E
CB-215	150+46.24	32.4 L	91.05		I=87.14' (DMH-214)	CB-E
CB-216	151+02.90	3.0 L	92.49		I=88.31' (DMH-214)	CB
CB-222	153+03.92	32.4 L	98.37		I=94.17' (DMH-220)	CB-E
CB-223	153+02.87	3.0 L	97.62		I=93.43' (DMH-220)	CB
CB-226	153+63.69	33.0 R	98.01		I=93.86' (DMH CIT-224)	CB
CB-229	155+37.97	32.4 L	104.32		I=100.11' (DMH-228)	CB-E
CB-230	155+52.83	3.0 L	103.96		I=99.78' (DMH-228)	CB
CB-232	156+17.19	32.4 R	104.47		I=100.31' (DMH-231)	CB-E

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-233	157+46.50	32.4 L	108.54		I=104.52' (DMH-234)	CB-E
CB-236	158+17.52	32.4 R	109.47		I=105.34' (EX DMH-608)	CB-E
CB-239	161+92.65	32.4 L	110.22		I=106.04' (DMH-238)	CB-E
CB-240	162+06.38	3.0 R	110.85		I=106.50' (DMH-238)	CB
CB-242	161+98.76	32.4 R	111.31		I=107.14' (EX DMH-610)	CB-E
CB-244	163+26.42	3.5 R	110.18		I=105.97' (DMH-246)	CB
CB-245	163+17.74	32.4 L	108.80		I=104.50' (DMH-246)	CB-E
CB-247	164+24.03	33.3 R	110.54		I=106.35' (EX DMH-612)	CB-E
CB-248	164+26.26	4.0 R	109.58		I=105.38' (DMH-249)	CB
CB-250	164+38.11	32.4 L	108.05		I=104.19' (EX DMH-611)	CB-E
CB-251	165+26.04	32.4 L	107.51		I=104.50' (DMH-254)	CB-E
CB-252	165+26.23	4.6 R	108.94		I=104.78' (DMH-254)	CB
CB-253	165+24.73	34.0 R	109.89		I=105.61' (EX DMH-614)	CB-E
CB-256	166+22.70	32.4 L	106.91		I=103.85' (EX DMH-613)	CB-E
CB-257	166+28.49	5.3 R	108.33		I=104.18' (EX DMH-613)	CB
CB-258	166+27.87	34.7 R	109.28		I=105.14' (EX DMH-614)	CB-E
CB-259	167+26.19	32.4 L	106.27		I=101.80' (DMH-309)	CB
CB-260	167+26.33	6.0 R	107.76		I=103.61' (DMH-309)	CB
CB-261	167+26.38	61.4 R	107.99		I=103.00' (DMH-262)	CB
CB-263	168+26.63	32.3 L	105.65		I=101.48' (DMH-266)	CB-E

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-264	168+26.33	6.7 R	107.17		I=103.02' (DMH-266)	CB
CB-265	168+54.58	82.6 R	106.02		I=101.20' (DMH-262)	CB
CB-268	169+26.24	32.4 L	105.12		I=100.80' (DMH-272)	CB-E
CB-269	169+26.28	7.5 R	106.67		I=102.53' (DMH-276)	CB
CB-271	169+52.15	32.4 L	105.09		I=100.77' (DMH-272)	CB-E
CB-273	169+51.22	7.7 R	106.65		I=102.51' (DMH CIT-275)	CB
CB-274	169+49.76	83.6 R	105.75		I=101.52' (DMH CIT-277)	CB
CB-279	169+77.13	32.4 L	105.12		I=100.80' (DMH-348)	CB-E
CB-280	169+76.17	8.0 R	106.69		I=102.54' (DMH CIT-275)	CB
CB-281	169+77.60	83.9 R	105.83		I=101.54' (DMH CIT-277)	CB
CB-284	171+52.04	32.4 L	106.82		I=103.10' (DMH-283)	CB-E
CB-285	170+83.21	84.9 R	106.38		I=101.52' (DMH-278)	CB
CB-286	171+51.29	9.5 R	108.44		I=104.10' (DMH-283)	CB
CB-289	173+19.09	32.4 L	110.84		I=107.51' (DMH-288)	CB-E
CB-290	173+26.36	5.2 R	112.51		I=108.25' (DMH-288)	CB
CB-291	172+42.03	86.0 R	109.15		I=103.50' (DMH-282)	CB
CB-294	175+06.83	86.6 R	116.23		I=110.00' (DMH-287)	CB-E
CB-295	175+01.84	32.4 L	116.66		I=112.55' (DMH-293)	CB-E
CB-296	175+01.25	3.0 R	117.33		I=113.15' (DMH-293)	CB
CB-298	176+76.24	3.0 R	122.28		I=117.08' (DMH-345)	CB

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-299	176+75.95	41.4 R	122.09		I=117.89' (DMH-297)	CB-E
CB-300	176+76.45	33.0 L	121.75		I=117.47' (DMH-297)	CB
CB-301	178+45.59	38.3 L	126.54		I=122.85' (DMH-342)	CB
CB-303	178+59.45	312.3 L	134.35		I=MATCH EXISTING	CB
CB-304	179+41.72	40.3 L	129.35		I=124.37' (EX DMH-619)	CB-E
CB-305	147+66.07	33.0 R	87.01		I=82.88' (DMH CIT-208)	CB
CB-306	150+66.08	33.0 R	90.92		I=86.77' (DMH-214)	CB
CB-310	169+46.51	37.7 R	107.63		I=103.54' (DMH-311)	CB
CB-312	168+80.03	7.1 R	106.85		I=102.70' (DMH-311)	CB
CB-313	170+36.42	8.4 R	106.99		I=102.88' (DMH-321)	CB
CB-314	170+84.94	8.8 R	107.46		I=103.35' (DMH-282)	CB
CB-322	108+69.43	25.7 L	56.16		I=51.99' (DMDMH-103)	CB
CB-323	170+85.89	32.4 L	105.87		I=101.54' (DMH-348)	CB-E
CB-324	174+28.18	32.4 L	114.58		I=110.40' (DMH-350)	CB-E
CB-325	175+97.74	33.0 L	119.45		I=115.10' (DMH-318)	CB
CB-326	177+56.61	33.0 L	124.02		I=119.50' (DMH-345)	CB
CB-327	107+06.03	25.0 L	50.01		I=46.20' (EX DMH-601)	CB
CB-328	112+16.53	28.2 L	60.94		I=56.74' (DMH-335)	CB
CB-329	113+68.77	30.3 R	60.32		I=56.59' (DMH-107)	CB-E
CB-330	134+07	33.0 R	96.52		I=92.34' (DMH-340)	CB

DRAINAGE STRUCTURE TABLE NOTES

- CLEANOUTS ARE NULL STRUCTURES IN CIVIL3D. RIMS PROVIDED FOR NULL STRUCTURES ARE NOT REFLECTIVE OF THE PROPOSED GROUND SURFACE AT THE ACCESS POINT. CLEANOUT ACCESS SHOULD BE PROVIDED TO GRADE FOR UNDERDRAINS WHERE NOTED.

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	189	272
PROJECT FILE NO.		606082	

**CONSTRUCTION DETAILS  
SHEET 10 OF 12**

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-333	161+26.01	32.4 R	111.22		I=107.25' (DMH-347)	CB-E
CB-334	174+92	42.0 R	117.18		I=112.04' (DMH-287)	CB
CB-341	178+59.24	65.1 L	126.53		I=122.93' (DMH-342)	CB-E
CO-237	160+00	54.5 R	SEE PLAN		I=112.06' (CO-243)	CO
CO-243	162+53.19	54.0 R	SEE PLAN	I=111.43' (CO-237)	I=110.05' (CO-307)	CO
CO-307	162+50.47	37.5 R	SEE PLAN	I=109.85' (CO-243)	I=108.10' (EX DMH-610)	CO
CO-354	121+10.14	44.9 R	SEE PLAN		I=49.69' (DMH-337)	CO
CO-355	122+72.72	44.7 R	SEE PLAN		I=53.50' (DMH-337)	CO
CO-356	126+99.07	44.2 R	SEE PLAN	I=71.00' (CO-357)	I=71.00' (DMH-339)	CO
CO-357	128+20.32	43.8 R	SEE PLAN		I=77.00' (CO-356) I=77.00' (CO-358)	CO
CO-358	128+99.45	43.5 R	SEE PLAN	I=80.00' (CO-357)	I=80.00' (CO-359)	CO
CO-359	129+88.22	44.9 R	SEE PLAN	I=86.00' (CO-358)		CO
CO-360	135+51.56	48.4 R	SEE PLAN		I=86.50' (CO-361)	CO
CO-361	136+11.59	44.2 R	SEE PLAN	I=84.00' (CO-360)	I=84.00' (DMH CIT-174)	CO
CO-362	138+75.37	44.6 R	SEE PLAN	I=80.05' (CO-364) I=80.02' (CO-363)	I=80.02' (EX DMH-602)	CO
CO-363	140+25.21	45.3 R	SEE PLAN		I=80.50' (CO-362)	CO
CO-364	136+20.67	44.3 R	SEE PLAN		I=83.50' (CO-362)	CO
CO-365	164+09.87	46.9 R	SEE PLAN		I=102.80' (CO-366)	CO
CO-366	164+34.36	46.8 R	SEE PLAN	I=102.20' (CO-365)	I=102.20' (EX DMH-612)	CO
CO-367	164+39.43	46.7 R	SEE PLAN		I=103.28' (CO-368)	CO

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CO-368	166+27.01	50.2 R	SEE PLAN	I=100.00' (CO-367)	I=100.00' (EX DMH-614)	CO
DHDMH-103	108+56.35	21.2 R	54.69	I=50.08' (CB-104) I=49.60' (EX DMH-623) I=50.50' (CB-322)	I=49.50' (EX DMH-601)	5' DHDMH
DHDMH-145	122+80.55	31.6 R	58.31	I=51.30' (DMH-146) I=52.30' (DMH-338)	I=51.00' (EX FES-4)	4' DMH
DI-142	121+18.58	48.5 L	51.36		I=46.95' (DMH-141)	DI TYPE DF
DI-147	123+65.10	38.4 R	60.53		I=56.14' (DMH-338)	DI TYPE DF
DI-169	134+75.19	41.1 R	94.59		I=90.78' (DMH CIT-174)	DI TYPE DF
DI-192	142+73.82	40.8 R	83.12		I=78.99' (DMH-190)	DI TYPE DF
DI-196	143+89.53	40.9 R	83.97		I=80.25' (EX DMH-604)	DI TYPE DF
DI-202	145+26.19	40.8 R	84.96		I=80.93' (DMH-200)	DI TYPE DF
DI-205	146+74.98	40.6 R	86.05		I=81.86' (DMH CIT-204)	DI TYPE DF
DI-210	148+24.80	40.3 R	87.14		I=82.96' (DMH CIT-208)	DI TYPE DF
DI-212	149+74.76	40.6 R	88.86		I=84.83' (DMH-211)	DI TYPE DF
DI-219	151+78.40	40.7 R	93.00		I=88.64' (DMH CIT-218)	DI TYPE DF
DI-225	153+40.15	41.0 R	97.11		I=93.20' (DMH CIT-224)	DI TYPE DF
DI-317	130+71.84	40.5 R	95.26		I=91.09' (DMH CIT-168)	DI TYPE DF
DMH-107	113+81.28	0.0 R	60.28	I=55.50' (CB-106) I=55.50' (DMH-335) I=56.40' (CB-329) I=55.50' (FES-51)	I=55.40' (DMH-110)	6' DMH
DMH-110	114+96.09	0.0 L	59.46	I=54.75' (DMH-107) I=55.15' (CB-108) I=55.52' (CB-109)	I=54.10' (DMH-113)	6' DMH
DMH-113	116+00.97	28.1 R	60.10	I=53.60' (DMH-110) I=55.52' (CB-111) I=54.51' (CB-112)	I=53.50' (DMH-117)	5' DMH
DMH-117	116+96.46	27.2 R	59.38	I=53.10' (DMH-113) I=53.86' (CB-115) I=53.10' (CB-116)	I=53.00' (DMH-124)	4' DMH
DMH-120	117+52.12	31.5 L	56.04	I=51.08' (CB-119) I=51.50' (FES-118)	I=50.98' (DMH-316)	4' DMH

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DMH-124	117+93.22	27.2 R	58.68	I=52.50' (DMH-117) I=52.50' (CB-122) I=54.20' (CB-123)	I=52.40' (DMH-127)	4' DMH
DMH-127	118+92.59	26.7 R	57.94	I=51.50' (DMH-124) I=52.21' (CB-125) I=53.52' (CB-126)	I=51.40' (DMH-308)	4' DMH
DMH-131	120+97.98	27.4 R	56.55	I=49.30' (DMH-308) I=52.01' (CB-130)	I=49.20' (DMH-137)	4' DMH
DMH-132	121+10.10	59.4 L	52.23	I=48.75' (DMH-315) I=46.67' (DMH-141)	I=46.57' (FES-17)	4' DMH
DMH-137	121+21.92	28.0 R	56.54	I=52.29' (CB-135) I=48.95' (DMH-131)	I=48.85' (DMH-140)	4' DMH
DMH-140	121+40.27	32.2 R	56.52	I=48.65' (DMH-137) I=49.10' (CB-138) I=52.17' (CB-139)	I=48.55' (DMH-337)	4' DMH
DMH-141	121+22.92	59.0 L	52.39	I=48.70' (CB-136) I=46.85' (DI-142)	I=46.75' (DMH-132)	4' DMH
DMH-146	122+91.77	4.4 R	57.42	I=53.12' (DMH-149) I=52.49' (CB-144)	I=52.28' (DHDMH-145)	4' DMH
DMH-149	123+99.31	3.9 R	60.80	I=54.56' (CB-151) I=54.25' (CB-150) I=55.02' (CB-148)	I=54.15' (DMH-146)	4' DMH
DMH-155	126+84.12	32.1 L	74.23	I=70.92' (FES-157) I=68.50' (CB-158)	I=68.40' (DMH-339)	4' DMH
DMH-156	126+54.17	27.5 R	75.48	I=69.30' (CB-153) I=68.09' (DMH-339) I=69.69' (CB-152)	I=68.00' (FES-5)	4' DMH
DMH-159	128+26.29	27.9 R	85.42	I=80.25' (DMH-349) I=80.28' (CB-160) I=81.22' (CB-161)	I=80.02' (DMH-339)	4' DMH
DMH-167	130+37.85	4.6 R	93.47	I=89.20' (CB-164)	I=89.00' (DMH CIT-168)	4' DMH
DMH-183	141+37.06	30.7 R	82.95	I=79.35' (CB-189) I=79.35' (CB-180)	I=79.25' (DMH CIT-343)	4' DMH
DMH-187	141+56.99	32.2 L	82.92	I=78.65' (CB-188) I=79.25' (FES-184) I=78.75' (CB-185)	I=78.15' (DMH CIT-181)	5' DMH
DMH-190	142+53.82	45.0 R	83.25	I=78.89' (DI-192) I=78.70' (DMH CIT-344)	I=78.60' (EX CB-625)	4' DMH
DMH-194	143+06.18	4.5 L	84.22	I=79.56' (CB-193) I=79.90' (DMH-353) I=79.56' (DMH CIT-197)	I=79.46' (DMH CIT-344)	5' DMH
DMH-200	145+04.01	3.7 L	85.68	I=80.72' (DI-202) I=80.94' (DMH-351)	I=80.71' (DMH CIT-197)	5' DMH
DMH-207	147+87.39	5.5 L	87.71	I=83.10' (DMH-352) I=83.13' (CB-209) I=83.52' (DMH-214)	I=83.00' (DMH CIT-208)	5' DMH
DMH-211	149+61.31	57.5 R	89.11	I=84.72' (DI-212)	I=84.62' (EX DMH-605)	4' DMH



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	190	272
PROJECT FILE NO.		606082	

**CONSTRUCTION DETAILS  
SHEET 11 OF 12**

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DMH-214	150+52.55	7.1 L	91.29	I=87.06' (CB-216) I=87.01' (CB-215) I=86.60' (DMH-370) I=86.55' (CB-306)	I=84.83' (DMH-207)	5' DMH
DMH-220	152+77.87	4.6 L	97.03	I=92.10' (DMH-371) I=92.85' (CB-222) I=92.84' (CB-223)	I=91.14' (DMH CIT-217)	5' DMH
DMH-228	155+38.76	5.2 L	103.68	I=99.40' (DMH-372) I=99.49' (CB-230) I=99.49' (CB-229)	I=98.56' (EX DMH-607)	5' DMH
DMH-231	156+11.77	28.1 R	104.47	I=100.25' (CB-232) I=100.00' (EX DMH-608)	I=99.90' (EX DMH-607)	5' DMH
DMH-234	157+63.10	4.5 R	109.01	I=103.70' (DMH-373) I=104.34' (CB-233)	I=103.60' (EX DMH-608)	4' DMH
DMH-238	162+14.87	4.6 L	110.62	I=103.85' (DMH-374) I=106.40' (CB-240) I=106.08' (DMH-347) I=105.86' (CB-239)	I=103.94' (DMH-246)	5' DMH
DMH-246	163+30.09	4.6 L	109.83	I=102.13' (CB-245) I=105.60' (CB-244) I=103.35' (DMH-238)	I=103.25' (EX DMH-611)	4' DMH
DMH-249	164+38.15	6.0 R	109.59	I=102.60' (EX DMH-611) I=105.31' (CB-248)	I=102.50' (EX DMH-612)	4' DMH
DMH-254	165+33.63	4.7 L	108.57	I=104.35' (CB-251) I=104.37' (CB-252)	I=104.25' (EX DMH-613)	4' DMH
DMH-262	167+14.33	33.3 R	108.88	I=102.50' (CB-261) I=100.85' (DMH-309) I=100.58' (CB-265) I=100.85' (DMH-266)	I=100.48' (DMH-320)	5' DMH
DMH-266	167+74.53	3.0 L	107.14	I=101.20' (CB-263) I=102.44' (CB-264)	I=101.10' (DMH-262)	4' DMH
DMH-272	169+52.77	25.8 L	105.36	I=100.64' (CB-268) I=100.60' (CB-271) I=100.46' (DMH-348)	I=100.36' (DMH CIT-275)	4' DMH
DMH-276	169+64.94	46.1 R	107.08	I=99.60' (DMH-311) I=100.04' (DMH CIT-275) I=99.60' (DMH-321) I=102.29' (CB-269)	I=99.50' (DMH CIT-277)	6' DMH
DMH-278	169+68.37	106.4 R	106.13	I=99.05' (DMH CIT-277) I=100.00' (CB-285)	I=98.95' (EX FES-15)	4' DMH
DMH-282	170+74.83	46.7 R	107.95	I=102.07' (DMH-283) I=102.20' (CB-291) I=103.16' (CB-314)	I=101.97' (DMH-321)	4' DMH
DMH-283	171+42.40	4.6 L	107.77	I=102.59' (DMH-288) I=103.36' (CB-286) I=102.70' (CB-284)	I=102.49' (DMH-282)	4' DMH
DMH-287	175+36.38	90.1 R	117.44	I=109.62' (CB-294) I=111.70' (CB-334) I=108.50' (DMH-350)	I=105.62' (HDW-16)	4' DMH
DMH-288	173+18.67	4.5 L	111.94	I=107.39' (CB-289) I=107.36' (CB-290)	I=107.29' (DMH-283)	4' DMH
DMH-293	175+07.55	4.4 L	117.38	I=112.43' (CB-295) I=112.65' (CB-296)	I=112.33' (DMH-318)	4' DMH
DMH-297	176+52.39	4.5 L	121.50	I=117.20' (CB-300) I=117.20' (CB-299) I=116.20' (DMH-345)	I=116.10' (DMH-318)	4' DMH

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DMH-308	119+90.47	27.1 R	57.25	I=50.45' (DMH-127) I=52.84' (CB-114) I=51.55' (CB-128)	I=50.35' (DMH-131)	4' DMH
DMH-309	167+19.13	6.6 R	107.83	I=101.20' (CB-259) I=103.16' (CB-260)	I=101.10' (DMH-262)	4' DMH
DMH-311	169+49.15	45.5 R	107.13	I=102.29' (CB-312) I=103.16' (CB-310)	I=99.70' (DMH-276)	4' DMH
DMH-315	121+11.48	31.3 L	53.58	I=50.00' (CB-134) I=49.01' (DMH-346)	I=48.91' (DMH-132)	4' DMH
DMH-316	119+58.42	28.1 L	54.72	I=49.96' (DMH-120)	I=49.86' (DMH-346)	4' DMH
DMH-318	175+28.29	4.2 L	117.97	I=112.25' (DMH-293) I=112.46' (DMH-297) I=113.64' (CB-325)	I=112.15' (DMH-350)	4' DMH
DMH-320	166+20.28	26.9 R	109.25	I=102.47' (EX DMH-613) I=100.10' (DMH-262)	I=100.00' (EX DMH-614)	4' DMH
DMH-321	170+19.13	45.7 R	107.52	I=101.10' (DMH-282) I=102.48' (CB-313)	I=101.00' (DMH-276)	4' DMH
DMH-335	113+38.46	27.9 L	60.03	I=55.82' (CB-328)	I=55.72' (DMH-107)	4' DMH
DMH-337	121+40.50	45.1 R	56.63	I=48.48' (DMH-140) I=49.40' (CO-354) I=49.40' (CO-355)	I=48.48' (EX FES-3)	4' DMH
DMH-338	123+53.32	32.2 R	60.30	I=55.81' (DI-147)	I=53.00' (DHDHM-145)	4' DMH
DMH-339	126+68.11	28.2 R	76.32	I=68.25' (DMH-155) I=71.29' (DMH-159) I=69.50' (CO-356)	I=68.15' (DMH-156)	4' DMH
DMH-340	135+70.95	3.9 L	93.14	I=89.40' (CB-330) I=87.55' (DMH-369)	I=87.45' (DMH CIT-173)	4' DMH
DMH-342	178+51.81	32.8 L	126.82	I=122.80' (CB-301) I=122.80' (CB-341)	I=122.70' (EX DMH-616)	4' DMH
DMH-345	176+66.32	5.7 L	121.88	I=117.65' (CB-326) I=116.75' (CB-298)	I=116.30' (DMH-297)	4' DMH
DMH-346	120+92.48	28.1 L	53.79	I=49.20' (DMH-316) I=49.20' (CB-133) I=50.00' (CB-129)	I=49.10' (DMH-315)	4' DMH
DMH-347	162+16.65	5.2 R	110.85	I=106.22' (EX DMH-610) I=106.85' (CB-333)	I=106.12' (DMH-238)	4' DMH
DMH-348	169+74.33	27.2 L	105.32	I=100.67' (CB-323) I=100.67' (CB-279)	I=100.57' (DMH-272)	4' DMH
DMH-349	130+32.75	31.0 L	91.53	I=85.65' (CB-162) I=87.86' (FES-163)	I=85.75' (DMH-159)	4' DMH
DMH-350	175+32.16	40.7 R	118.12	I=109.00' (CB-324) I=111.92' (DMH-318)	I=108.90' (DMH-287)	4' DMH

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DMH-351	145+47.04	31.5 L	85.44	I=81.70' (CB-203) I=81.70' (FES-199)	I=81.23' (DMH-200)	4' DMH
DMH-352	148+06.85	32.1 L	87.32	I=83.65' (FES-206)	I=83.57' (DMH-207)	4' DMH
DMH-353	143+25.34	31.6 L	83.82	I=80.14' (FES-195)	I=80.04' (DMH-194)	4' DMH
DMH-369	135+68.65	29.9 L	92.68	I=89.47' (FES-172)	I=89.47' (DMH-340)	4' DMH
DMH-370	150+86.44	33.0 L	92.25	I=83.65' (FES-213)	I=86.90' (DMH-214)	4' DMH
DMH-371	152+79.61	31.8 L	97.77	I=94.10' (FES-221)	I=92.48' (DMH-220)	4' DMH
DMH-372	155+66.16	31.5 L	105.06	I=92.48' (FES-227)	I=99.73' (DMH-228)	4' DMH
DMH-373	158+06.96	32.0 L	109.30	I=105.64' (FES-235)	I=104.00' (DMH-234)	4' DMH
DMH-374	162+11.15	32.5 L	109.99	I=106.32' (FES-241)	I=104.70' (DMH-238)	4' DMH
DMH CIT-168	130+38.74	43.0 R	94.70	I=88.85' (DMH-167) I=89.86' (CB-165) I=90.19' (DI-317)	I=88.75' (EX FES-6)	CIT
DMH CIT-173	136+17.17	6.2 L	91.96	I=87.44' (CB-170) I=87.24' (DMH-340)	I=87.14' (EX DMH-624)	CIT
DMH CIT-174	136+16.92	38.8 R	91.49	I=85.75' (EX DMH-624) I=86.74' (DI-169) I=83.90' (CO-361)	I=80.00' (EX FES-7)	5' DMH
DMH CIT-178	138+68.58	6.3 L	86.05	I=80.40' (FES-176) I=82.07' (CB-175)	I=80.30' (EX DMH-602)	CIT
DMH CIT-181	141+40.06	6.2 L	83.44	I=77.99' (DMH-187) I=78.57' (CB-179)	I=77.89' (EX DMH-603)	CIT
DMH CIT-197	144+37.48	5.7 L	85.15	I=80.40' (DMH-200)	I=80.30' (DMH-194)	CIT
DMH CIT-204	146+09.47	56.3 R	86.02	I=81.39' (DI-205)	I=81.15' (EX DMH-604)	CIT
DMH CIT-208	147+87.37	38.7 R	86.95	I=82.59' (CB-305) I=81.49' (DMH-207) I=82.76' (DI-210)	I=81.39' (EX DMH-605)	CIT
DMH CIT-217	151+62.09	4.6 L	94.09	I=88.97' (DMH-220)	I=88.87' (DMH CIT-218)	CIT
DMH CIT-218	151+61.94	39.6 R	92.58	I=87.46' (DMH CIT-217) I=88.56' (DI-219)	I=87.30' (EX DMH-606)	CIT
DMH CIT-224	153+37.91	58.5 R	97.52	I=92.39' (DI-225) I=91.92' (CB-226)	I=91.80' (EX DMH-606)	CIT

**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	191	272
PROJECT FILE NO.		606082	

**CONSTRUCTION DETAILS  
SHEET 12 OF 12**

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DMH CIT-275	169+59.99	9.0 R	106.70	I=100.29' (DMH-272) I=102.46' (CB-273) I=102.46' (CB-280)	I=100.19' (DMH-276)	CIT
DMH CIT-277	169+64.48	88.1 R	105.65	I=99.20' (DMH-276) I=101.38' (CB-281) I=101.38' (CB-274)	I=99.10' (DMH-278)	CIT
DMH CIT-343	141+36.15	38.1 R	82.84	I=79.20' (DMH-183) I=79.00' (EX CB-182)	I=78.95' (EX DMH-603)	CIT
DMH CIT-344	142+52.28	6.0 L	83.80	I=79.24' (DMH-194)	I=79.14' (DMH-190)	CIT
EX CB-182	141+41.49	38.2 R	82.81		I=79.19' (DMH CIT-343)	RMD
EX CB-620	103+29.30	184.6 L	25.52		I=22.00' (EX DMH-622)	RET
EX CB-621	103+66.56	182.5 L	25.73		I=22.17' (EX DMH-622)	RET
EX CB-625	142+55.20	92.1 R	82.28	I=78.08' (DMH-190)	I=77.88' (EX DMH-618)	RET
EX CB-626	178+81.05	42.7 R	127.19			RMD W/ ECCEN TOP
EX DMH-600	104+39.34	15.7 R	36.96	I=32.40' (CB-100) I=33.33' (CB-101) I=32.13' (EX DMH-601)	I=31.73' (EX DMH-609)	ADJ
EX DMH-601	107+00.13	15.9 R	49.02	I=45.02' (CB-102) I=43.42' (DHDHM-103) I=45.20' (CB-327)	I=43.32' (EX DMH-600)	ADJ
EX DMH-602	138+75.03	31.9 R	85.42	I=80.12' (DMH CIT-178) I=80.02' (CO-362) I=81.42' (CB-177)	I=80.02' (EX DMH-603)	ADJ
EX DMH-603	140+87.26	32.0 R	83.04	I=77.25' (DMH CIT-181) I=77.35' (EX DMH-602) I=77.35' (DMH CIT-343)	I=77.05' (EX DMH-617)	ADJ
EX DMH-604	144+37.32	57.2 R	84.77	I=76.70' (DMH CIT-204) I=79.90' (CB-191) I=78.00' (DI-196)	I=76.60' (EX FES-9)	ADJ
EX DMH-605	147+87.20	57.1 R	87.33	I=78.23' (DMH-211) I=78.23' (DMH CIT-208)	I=78.13' (EX FES-10)	ADJ
EX DMH-606	151+62.09	58.3 R	93.06	I=87.00' (DMH CIT-218) I=87.44' (DMH CIT-224)	I=86.65' (EX FES-11)	ADJ
EX DMH-607	155+39.14	32.8 R	102.47	I=98.00' (DMH-228) I=98.32' (DMH-231)	I=97.90' (EX FES-12)	ADJ
EX DMH-608	157+56.37	30.1 R	108.35	I=103.48' (DMH-234) I=104.21' (CB-236)	I=103.38' (DMH-231)	ADJ
EX DMH-609	101+51.81	15.4 R	24.72	I=14.18' (EX DMH-600)	I=14.08' (EX DMH-615)	ADJ
EX DMH-610	162+21.44	31.6 R	111.39	I=106.98' (CB-242) I=106.44' (CO-307)	I=106.34' (DMH-347)	ADJ

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
FES-199	145+47.86	43.2 L	N/A		I=83.25' (DMH-351)	FES
FES-206	148+16.02	44.6 L	N/A		I=85.32' (DMH-352)	FES
FES-213	150+92.84	44.9 L	N/A		I=85.32' (DMH-370)	FES
FES-221	152+80.41	43.8 L	N/A		I=95.20' (DMH-371)	FES
FES-227	155+66.11	43.6 L	N/A		I=95.20' (DMH-372)	FES
FES-235	158+06.63	44.0 L	N/A		I=107.67' (DMH-373)	FES
FES-241	162+09.52	47.3 L	N/A		I=107.90' (DMH-374)	FES
HDW-16	175+39.52	103.3 R	117.31	I=104.50' (DMH-287)		HW

DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX DMH-611	164+38.22	5.6 L	109.13	I=104.08' (CB-250) I=102.80' (DMH-246)	I=102.70' (DMH-249)	ADJ
EX DMH-612	164+38.02	32.4 R	110.48	I=106.28' (CB-247) I=102.10' (DMH-249) I=102.00' (CO-366)	I=102.00' (EX FES-13)	ADJ
EX DMH-613	166+20.33	4.2 L	108.05	I=103.90' (DMH-254) I=103.85' (CB-257) I=103.70' (CB-256)	I=103.00' (DMH-320)	ADJ
EX DMH-614	166+20.42	34.1 R	109.34	I=105.16' (CB-253) I=99.90' (DMH-320) I=105.10' (CB-258) I=99.80' (CO-368)	I=99.70' (EX FES-14)	ADJ
EX DMH-615	100+60±	15± RT	21.77	I=12.97' (EX DMH-609)	I=12.77' (EX FES-1)	ADJ
EX DMH-616	178+81.48	6.4 L	127.75	I=122.50' (DMH-342)		ADJ
EX DMH-617	140+76.65	210.4 R	37.27	I=33.24' (EX DMH-603)	I=32.34' (EX DMH-618)	ADJ
EX DMH-618	142+72.15	223.2 R	38.00	I=31.76' (EX DMH-617) I=31.56' (EX CB-625)	I=31.16' (EX FES-8)	ADJ
EX DMH-619	179+38.92	0.1 R	129.64	I=124.16' (CB-304)		ADJ
EX DMH-622	103+60.70	243.2 L	22.90	I=18.10' (EX CB-620) I=18.10' (EX CB-621)	I=17.70' (EX FES-2)	ADJ
EX DMH-623	110+50.18	12.6 R	59.40	I=55.05' (CB-105)	I=54.65' (DHDHM-103)	ADJ
EX DMH-624	136+17.05	31.7 R	91.46	I=85.95' (DMH CIT-173) I=87.85' (CB-171)	I=85.85' (DMH CIT-174)	ADJ
-	-	-	-	-	-	-
-	-	-	-	-	-	-
EX FES-3	121+40.79	61.4 R	N/A	I=47.91' (DMH-337)		RET
EX FES-4	122+67.58	63.9 R	N/A	I=49.78' (DHDHM-145)		RET
EX FES-6	130+38.34	73.3 R	N/A	I=88.56' (DMH CIT-168)		RET
EX FES-7	136+16.41	71.1 R	N/A	I=78.21' (DMH CIT-174)		RET
EX FES-8	142+83.13	631.3 R	N/A	I=5.74' (EX DMH-618)		RET
EX FES-9	144+36.36	98.3 R	N/A	I=71.67' (EX DMH-604)		RET

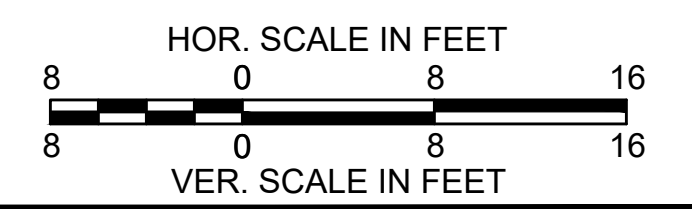
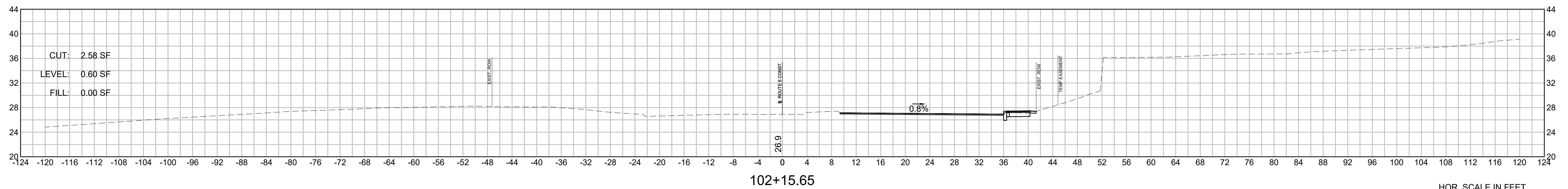
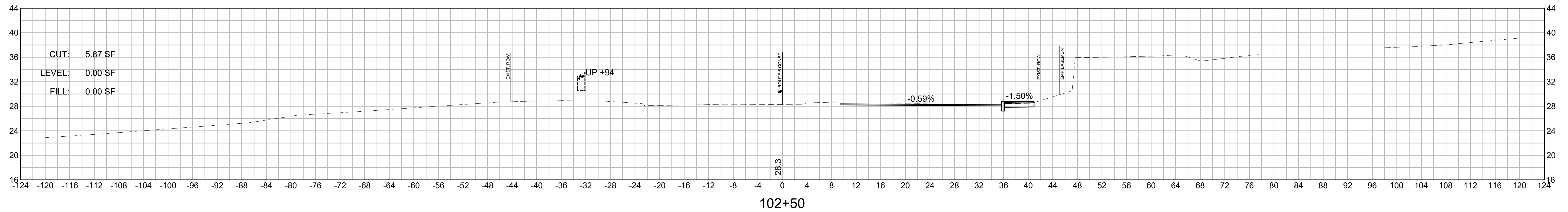
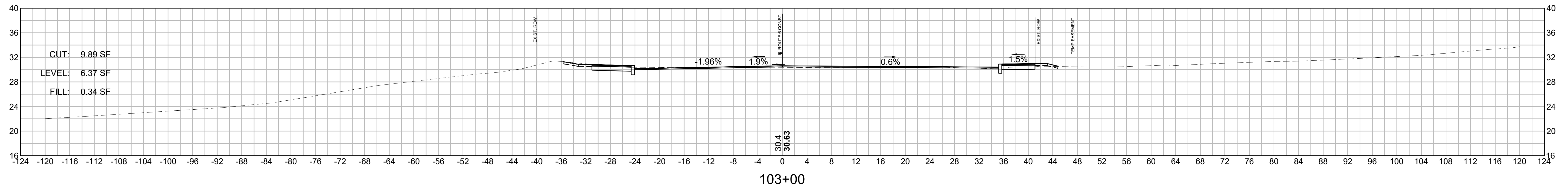
DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX FES-10	147+87	101.2 R	N/A	I=70.14' (EX DMH-605)		RET
EX FES-11	151+61.74	100.4 R	N/A	I=77.52' (EX DMH-606)		RET
EX FES-12	155+38.99	71.0 R	N/A	I=91.87' (EX DMH-607)		RET
EX FES-13	164+37.60	63.5 R	N/A	I=100.87' (EX DMH-612)		RET
EX FES-14	166+19.83	73.5 R	N/A	I=95.82' (EX DMH-614)		RET
EX FES-15	169+86.65	142.2 R	N/A	I=95.76' (DMH-278)		RET
FES-5	125+75.15	81.9 R	N/A	I=67.55' (DMH-156)		FES
FES-17	121+00.54	71.7 L	N/A	I=46.35' (DMH-132)		FES
FES-51	113+91.77	40.1 L	N/A		I=57.75' (DMH-107)	FES
FES-53	122+00	47.9 L	N/A	I=53.02' (FES-54)		FES
FES-54	124+50	48.0 L	N/A		I=54.24' (FES-53)	FES
FES-55	145+22.87	48.0 L	N/A		I=83.15' (FES-56)	FES
FES-56	144+30.89	47.8 L	N/A	I=82.45' (FES-55)		FES
FES-118	117+50.37	43.4 L	N/A		I=53.85' (DMH-120)	FES
FES-157	126+85.17	44.1 L	N/A		I=72.53' (DMH-155)	FES
FES-163	130+33.84	42.3 L	N/A		I=89.34' (DMH-349)	FES
FES-172	135+67.25	44.4 L	N/A		I=90.58' (DMH-369)	FES
FES-176	138+85.59	45.1 L	N/A		I=83.10' (DMH CIT-178)	FES
FES-184	141+50.47	44.8 L	N/A		I=80.35' (DMH-187)	FES
FES-195	143+27.43	43.7 L	N/A		I=81.70' (DMH-353)	FES



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	192	272
PROJECT FILE NO.		606082	

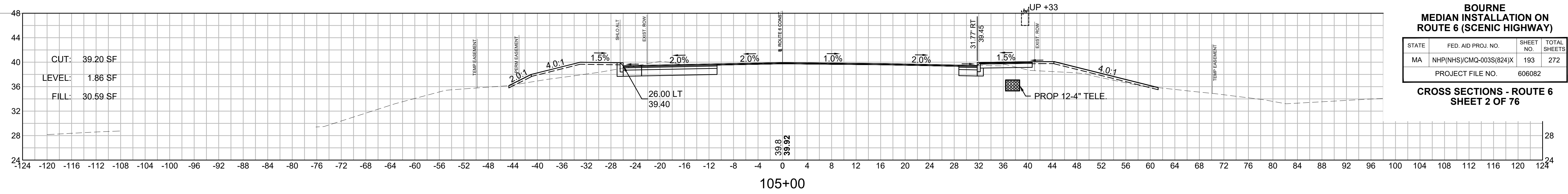
**CROSS SECTIONS - ROUTE 6  
SHEET 1 OF 76**



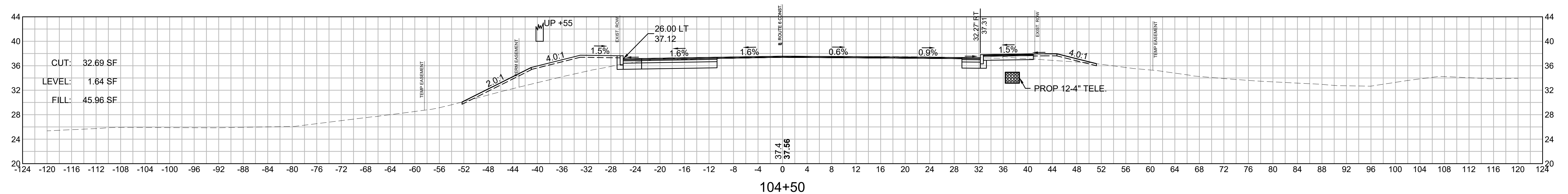
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	193	272
PROJECT FILE NO.		606082	

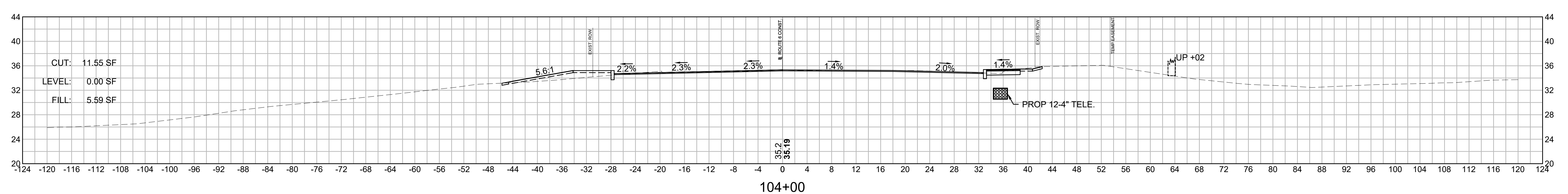
**CROSS SECTIONS - ROUTE 6  
SHEET 2 OF 76**



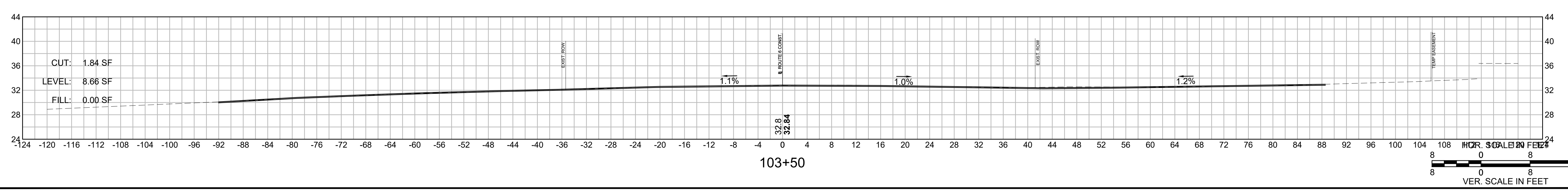
105+00



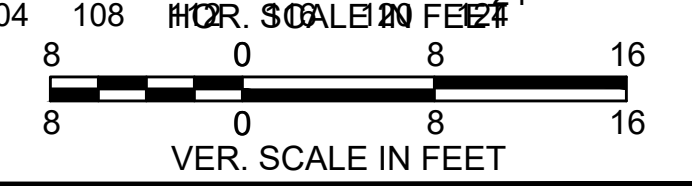
104+50



104+00



103+50

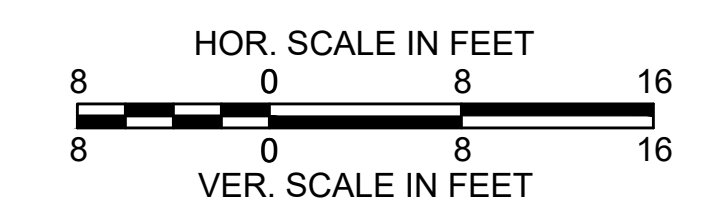
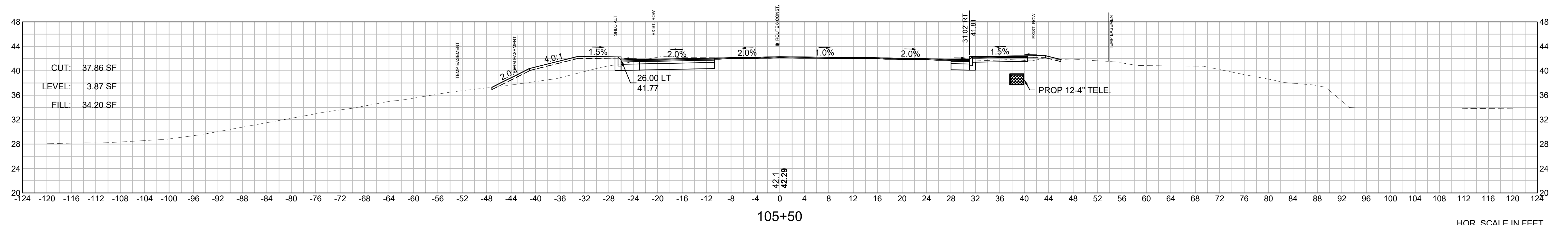
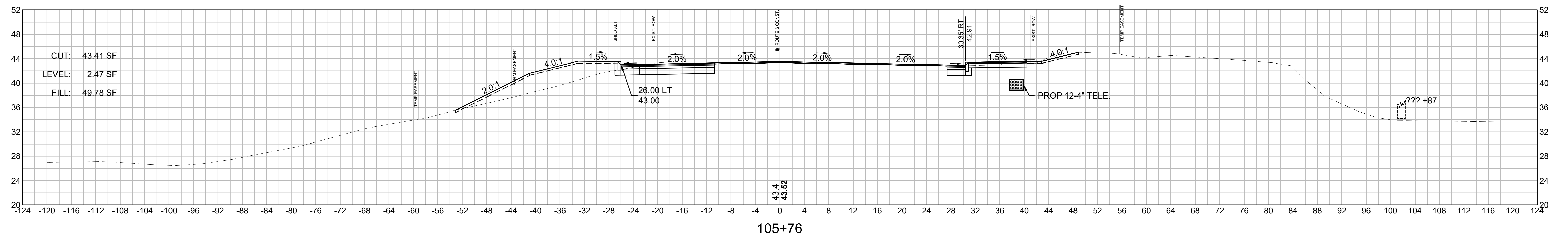
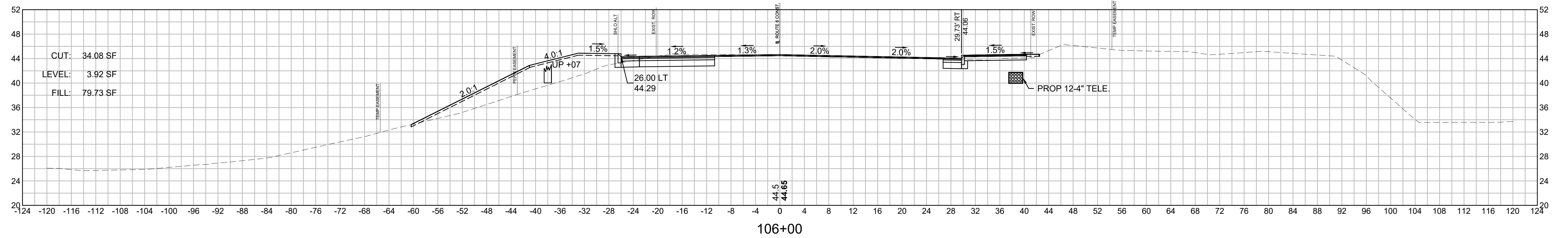




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	194	272
PROJECT FILE NO.		606082	

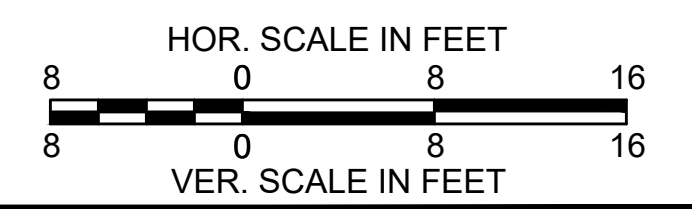
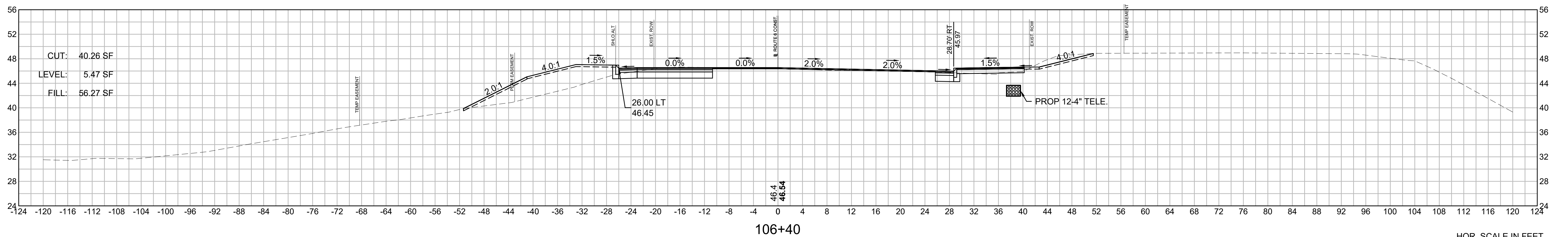
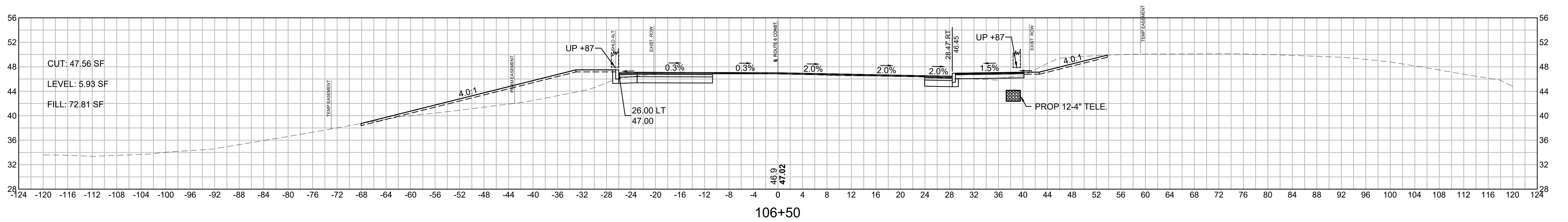
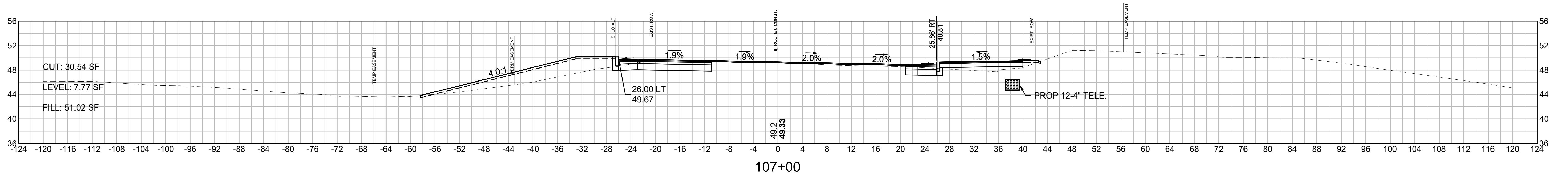
**CROSS SECTIONS - ROUTE 6  
SHEET 3 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	195	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 4 OF 76**



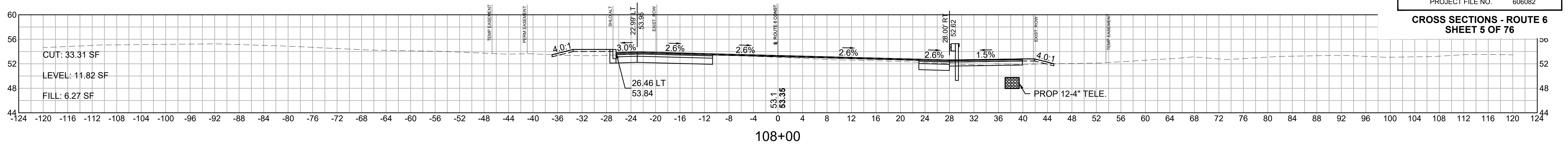


SUPERELEVATION:  
 PC STA 106+95.01  
 PT STA 111+64.85  
 R=2200.00'  
 BANK = 2.6%

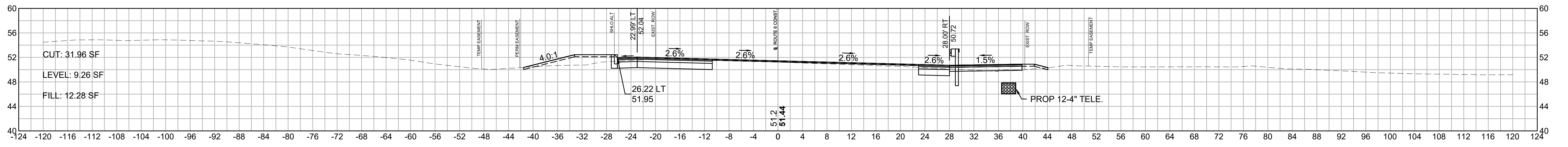
**BOURNE  
 MEDIAN INSTALLATION ON  
 ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	196	272
PROJECT FILE NO.		606082	

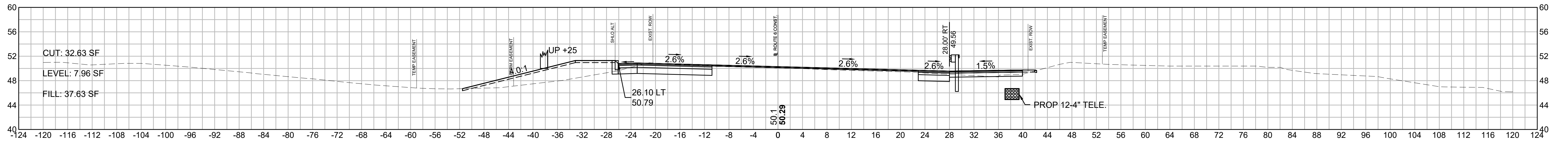
**CROSS SECTIONS - ROUTE 6  
 SHEET 5 OF 76**



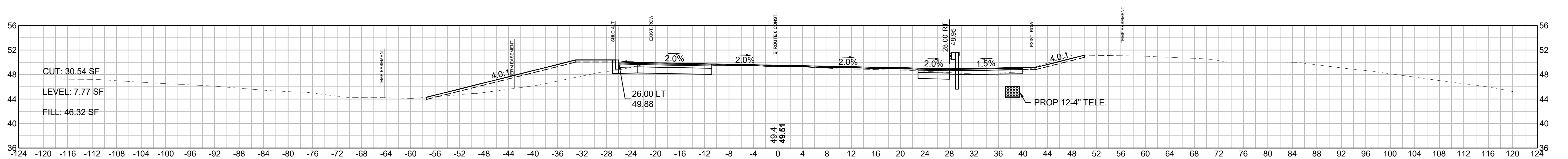
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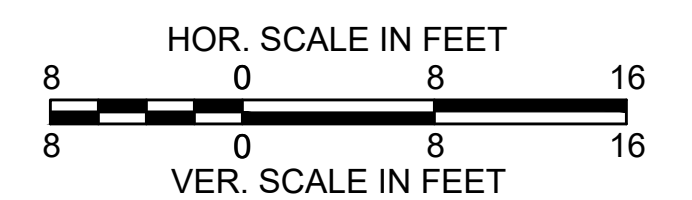
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107+22



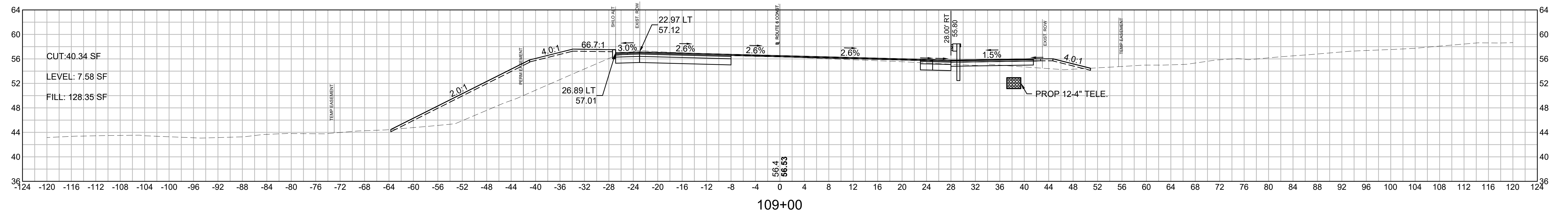
107+04



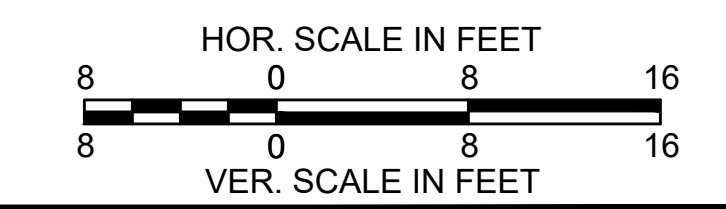
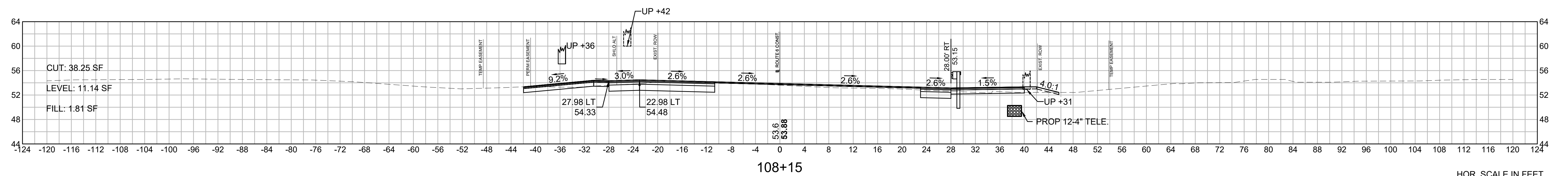
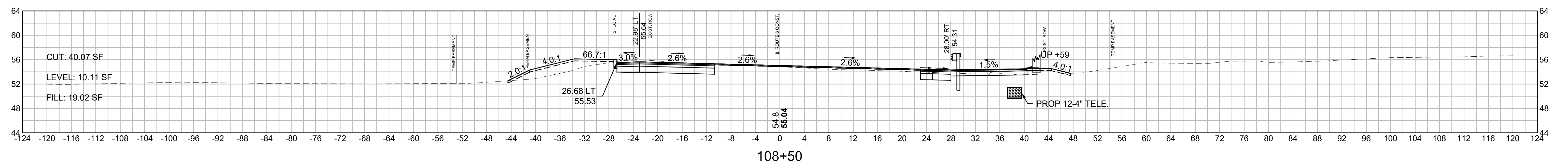
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	197	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 6 OF 76**



**SUPERELEVATION:**  
 PC STA 106+95.01  
 PT STA 111+64.85  
 R=2200.00'  
 BANK = 2.6%



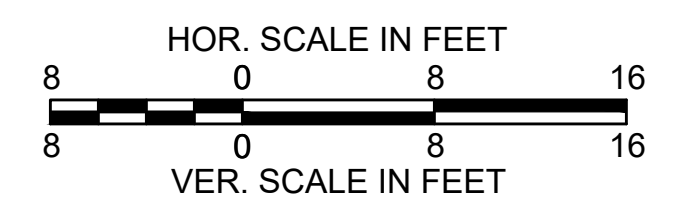
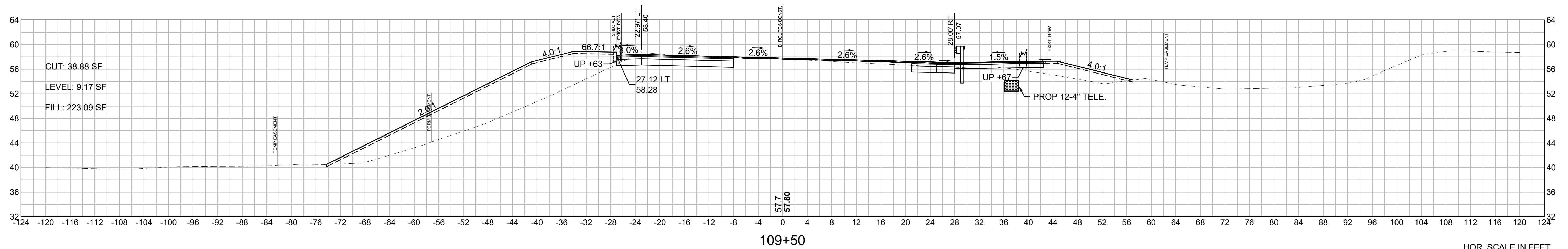
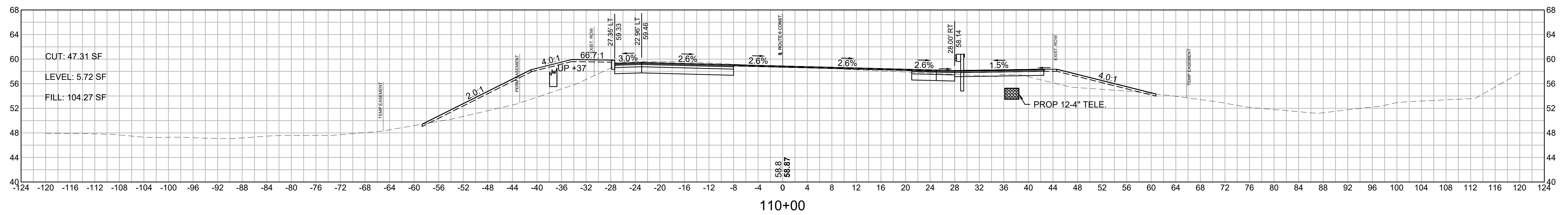
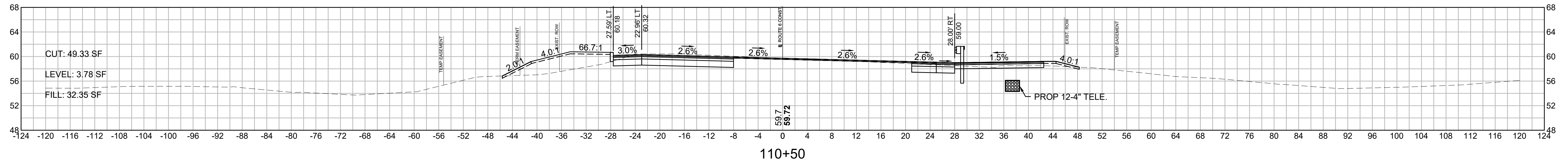


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	198	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 7 OF 76**

**SUPERELEVATION:**  
PC STA 106+95.01  
PT STA 111+64.85  
R=2200.00'  
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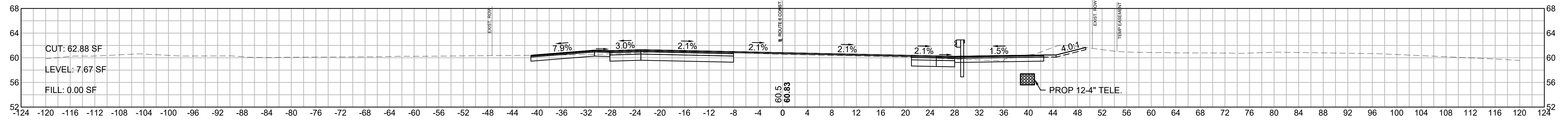


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

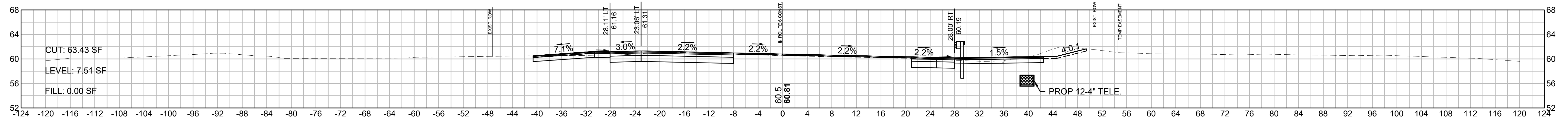
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	199	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 8 OF 76**

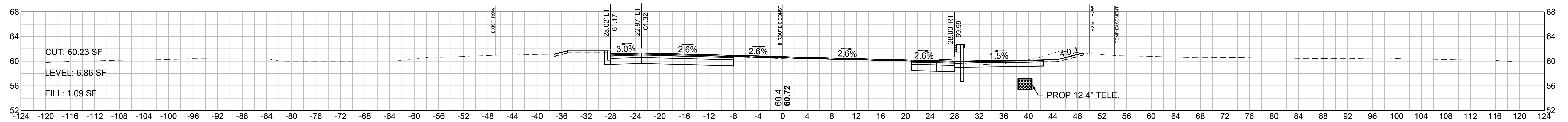
**SUPERELEVATION:**  
PC STA 106+95.01  
PT STA 111+64.85  
R=2200.00'  
BANK = 2.6%



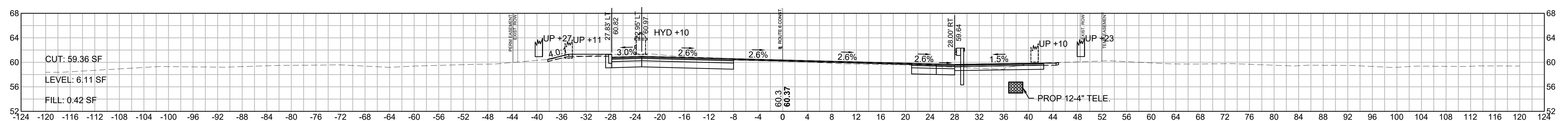
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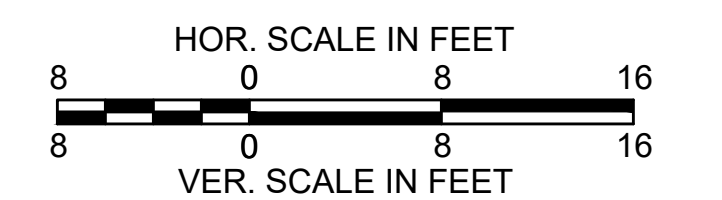
111+50



111+38



111+00



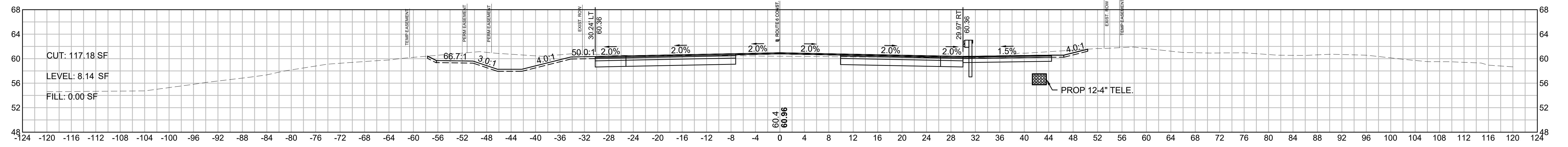


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

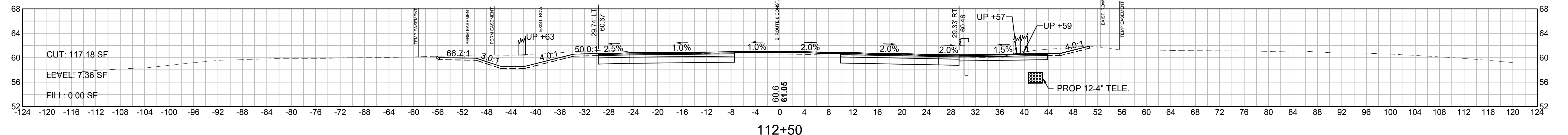
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 9 OF 76**

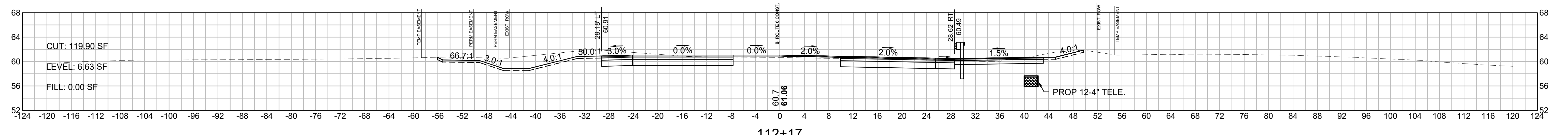
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PT STA 111+64.85  
R=2200.00'  
BANK = 2.6%



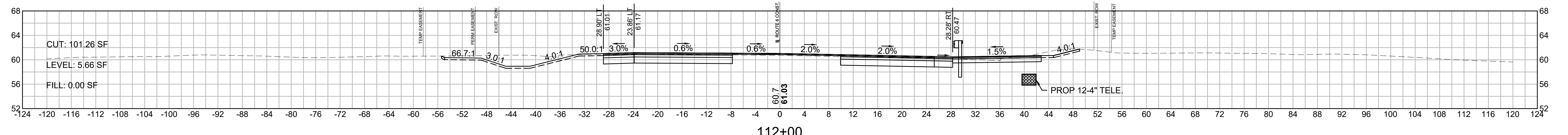
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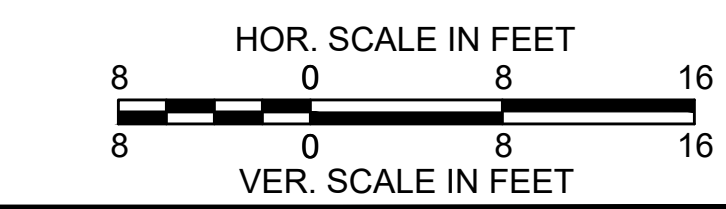
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112+17



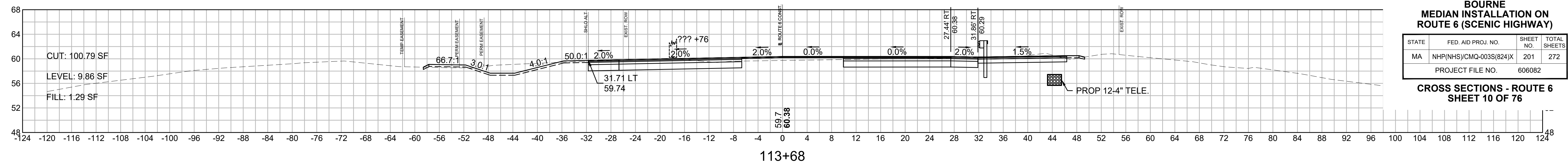
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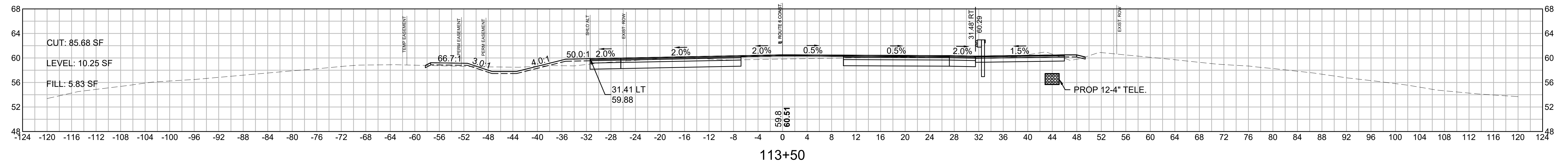
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	201	272
PROJECT FILE NO.		606082	

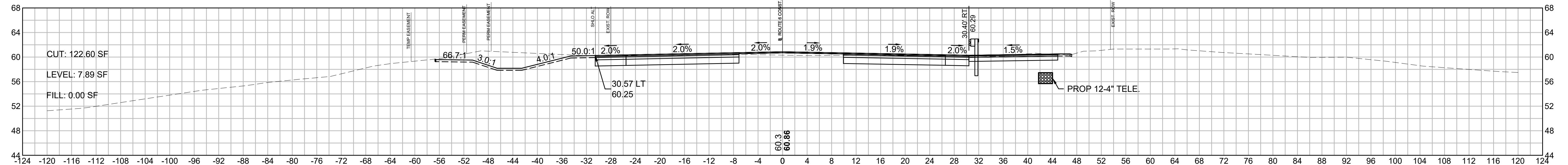
**CROSS SECTIONS - ROUTE 6  
SHEET 10 OF 76**



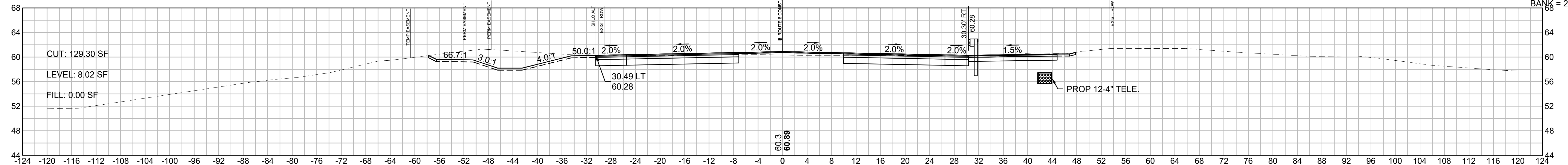
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113+50

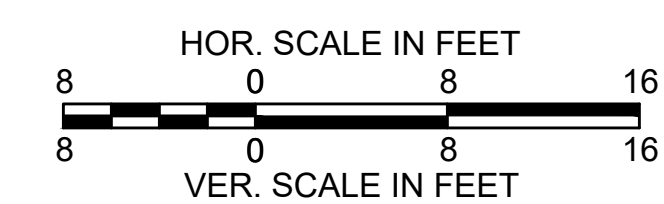


113+00



112+95

SUPERELEVATION:  
PC STA 106+95.01  
PT STA 111+64.85  
R=2200.00'  
BANK = 2.6%

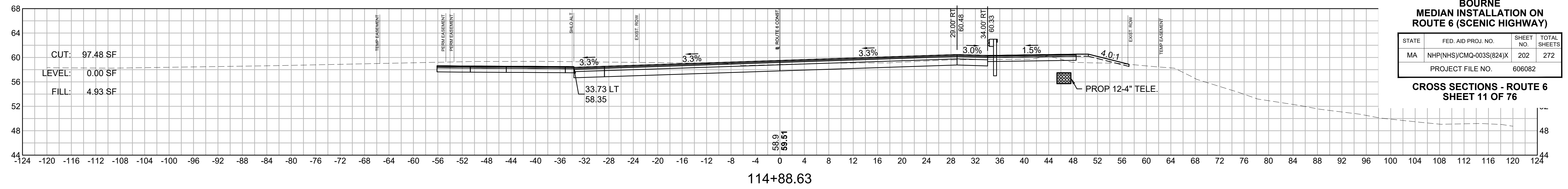




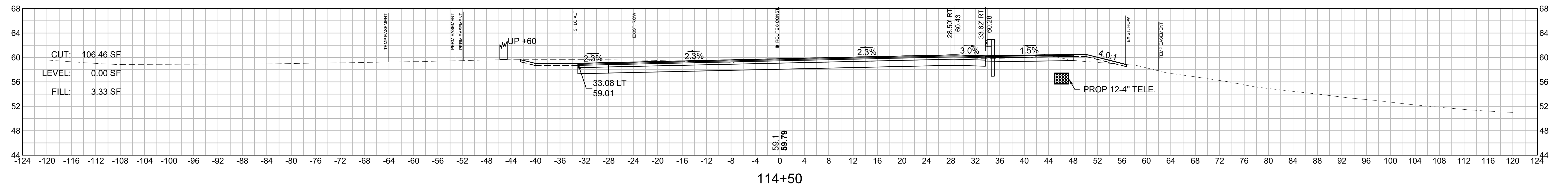
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	202	272
PROJECT FILE NO.		606082	

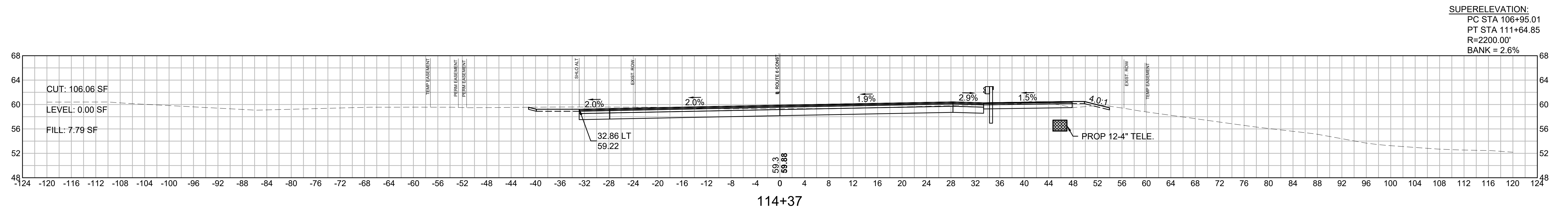
**CROSS SECTIONS - ROUTE 6  
SHEET 11 OF 76**



114+88.63

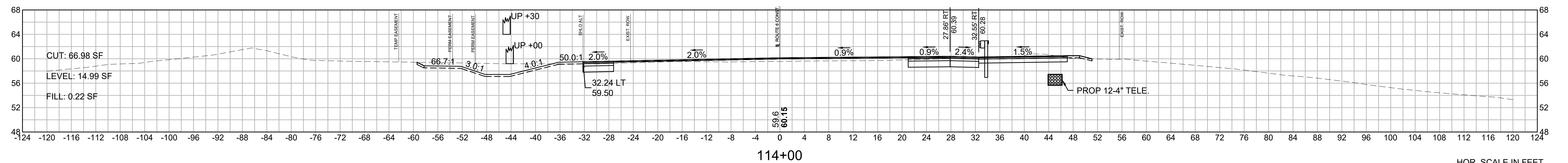


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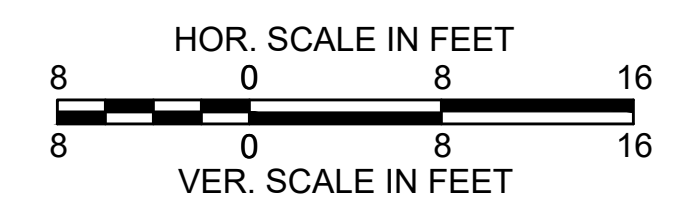


114+37

**SUPERELEVATION:**  
PC STA 106+95.01  
PT STA 111+64.85  
R=2200.00'  
BANK = 2.6%



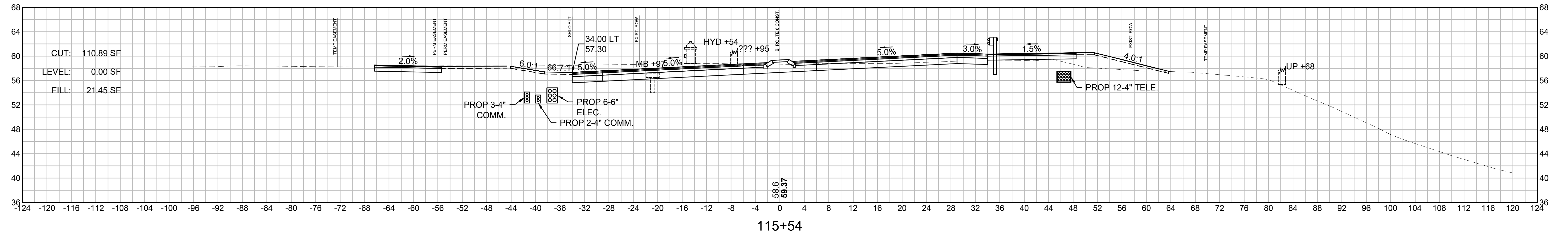
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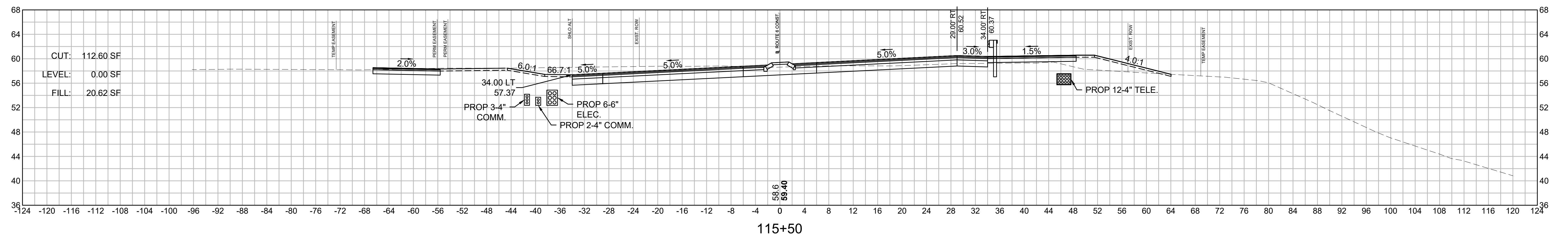
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	203	272
PROJECT FILE NO.		606082	

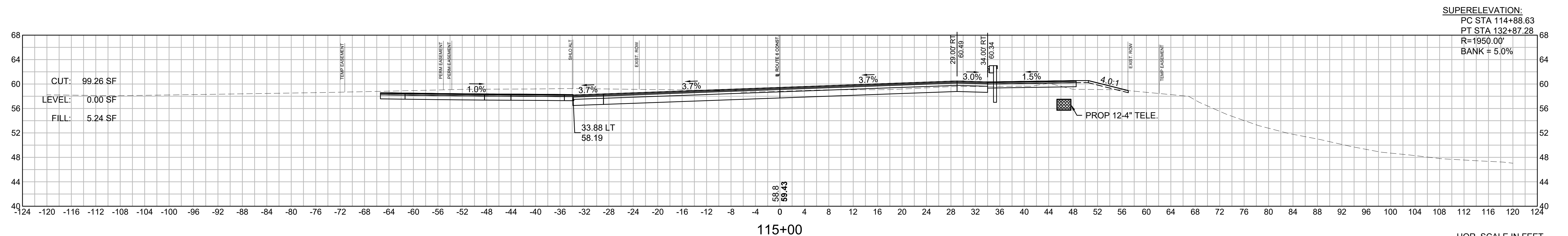
**CROSS SECTIONS - ROUTE 6  
SHEET 12 OF 76**



115+54

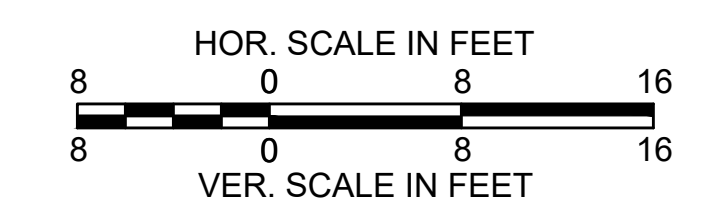


115+50



115+00

**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%

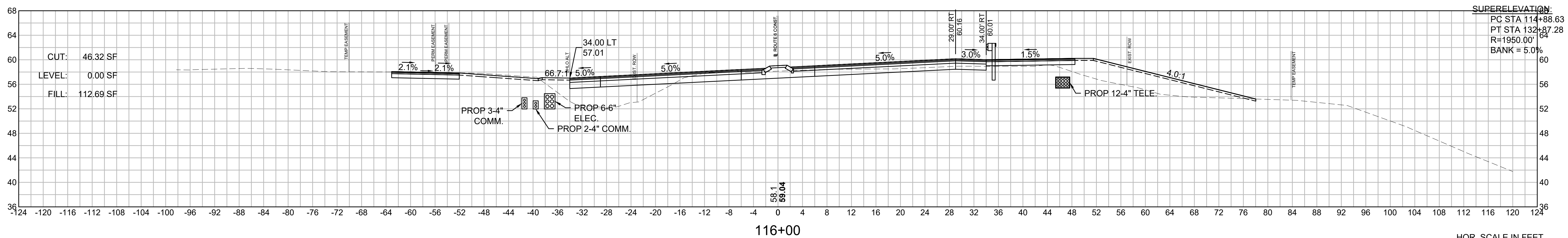
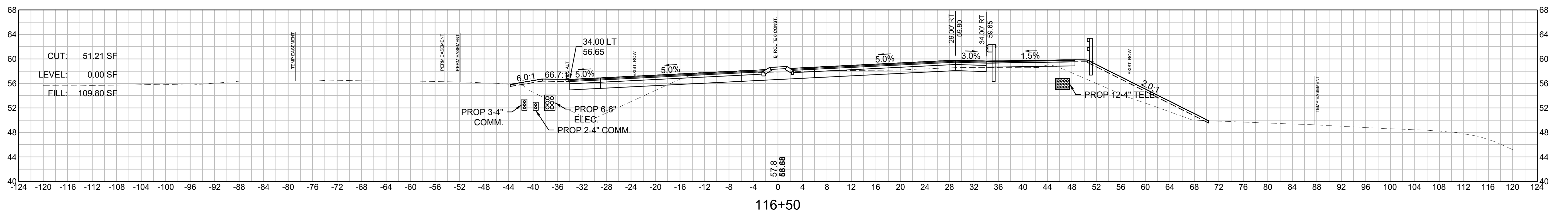
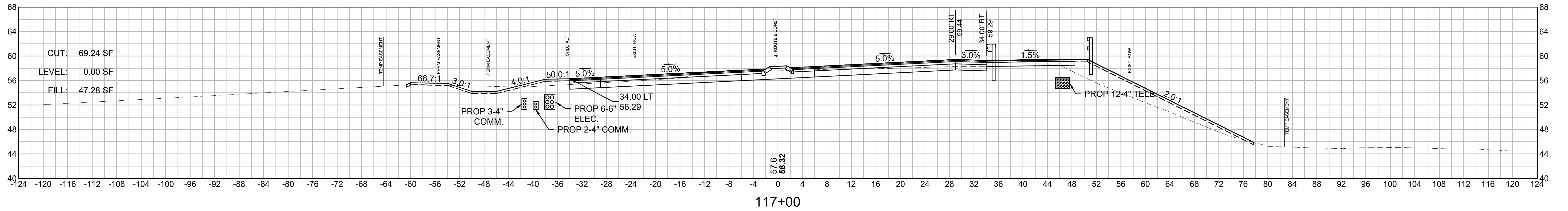




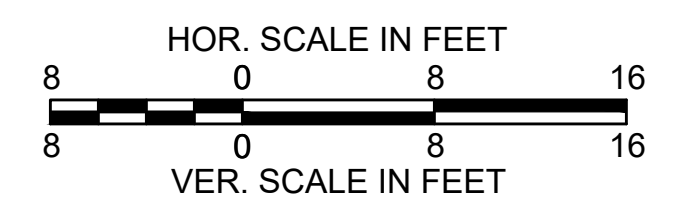
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	204	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 13 OF 76**



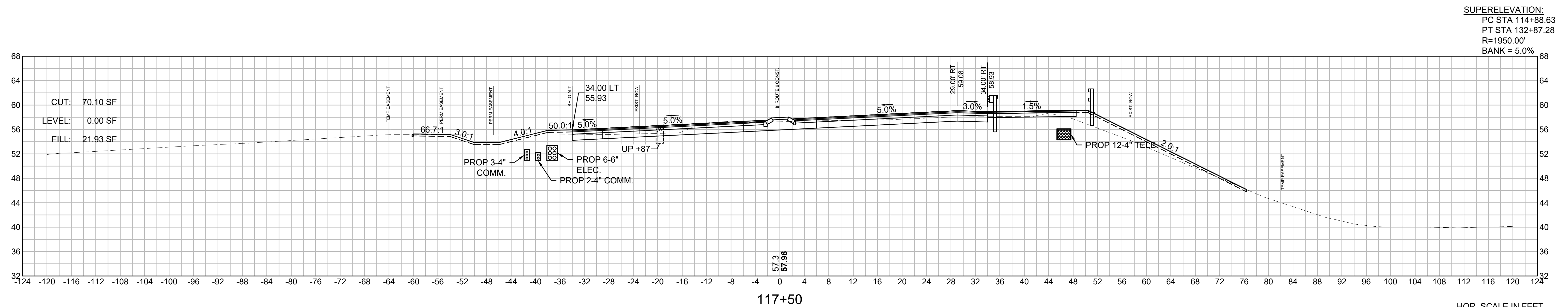
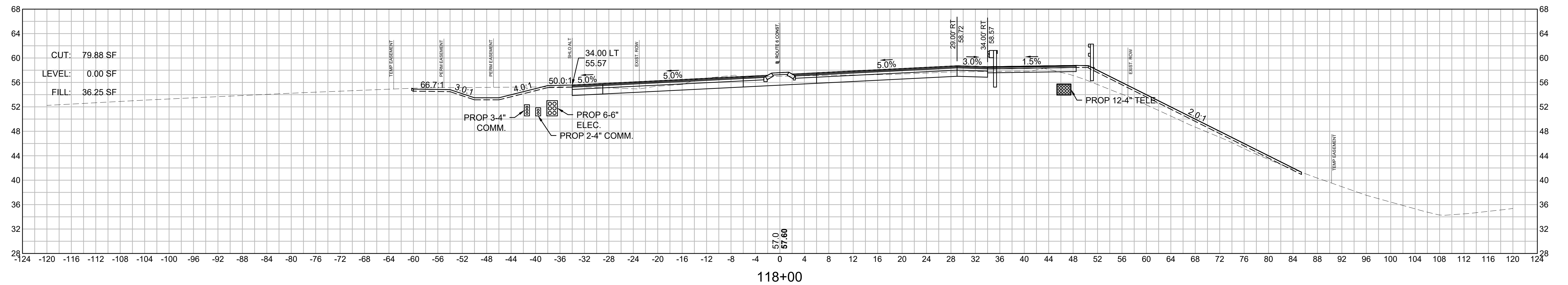
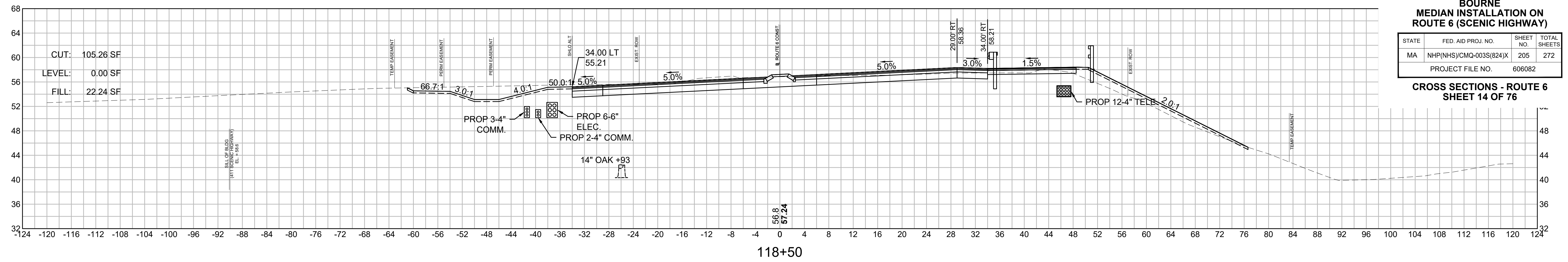
**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%



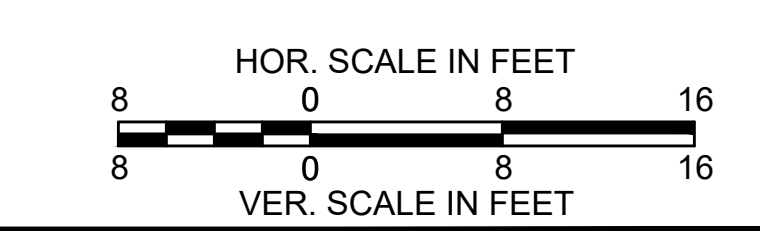
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	205	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 14 OF 76**



**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%

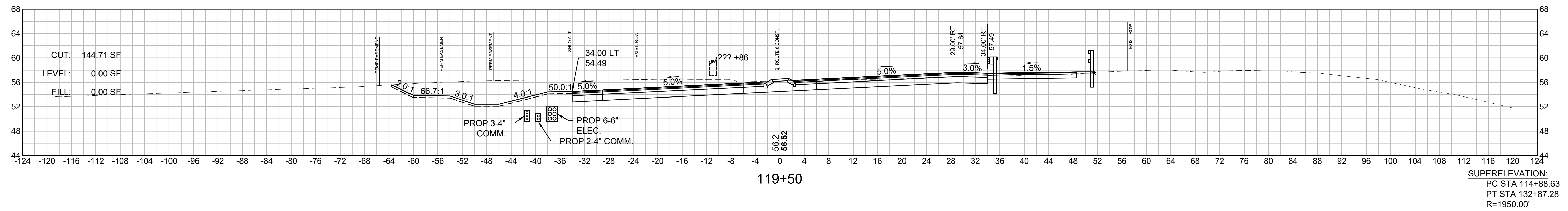
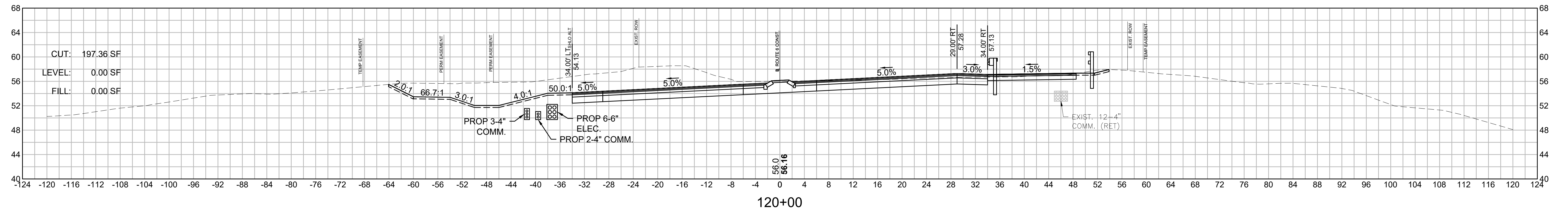




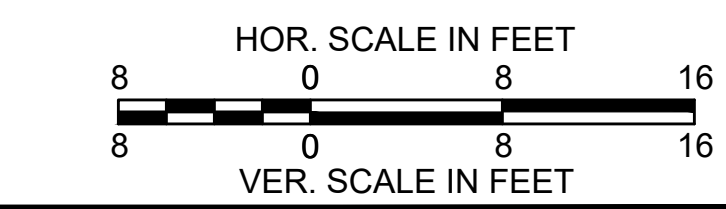
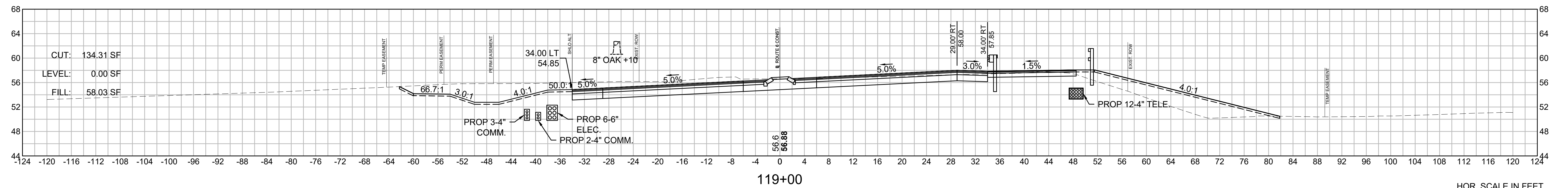
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	206	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 15 OF 76**



**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%

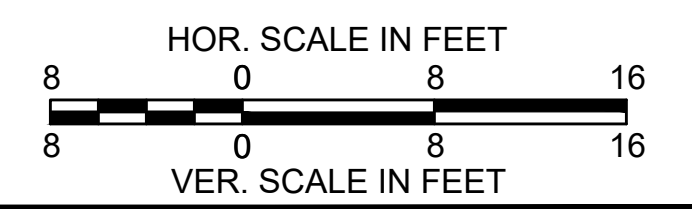
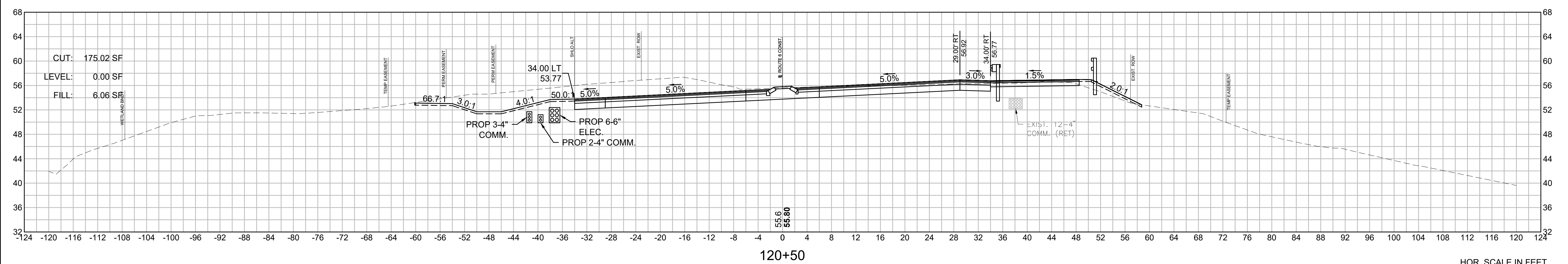
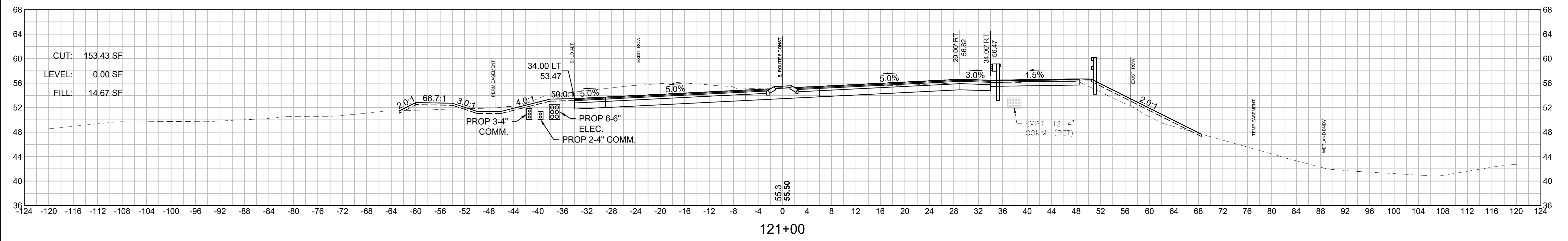
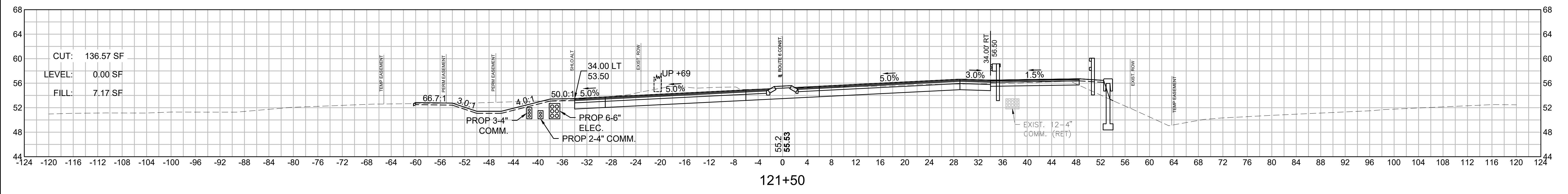


SUPERELEVATION:  
 PC STA 114+88.63  
 PT STA 132+87.28  
 R=1950.00'  
 BANK = 5.0%

**BOURNE  
 MEDIAN INSTALLATION ON  
 ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	207	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
 SHEET 16 OF 76**



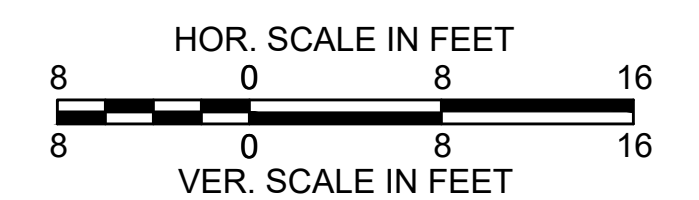
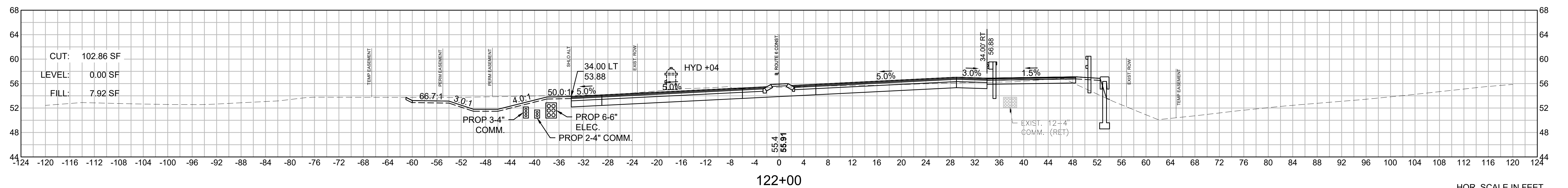
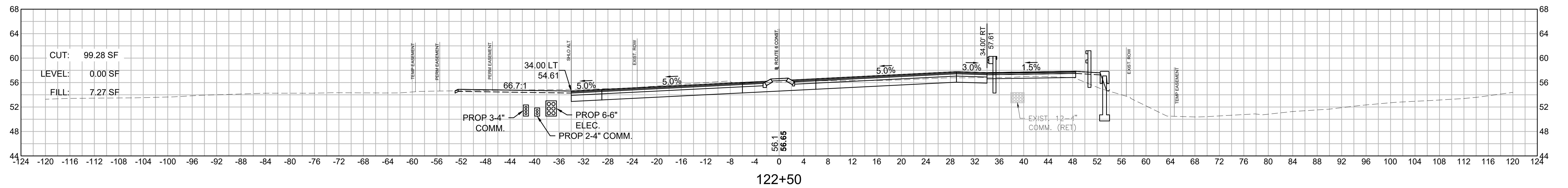
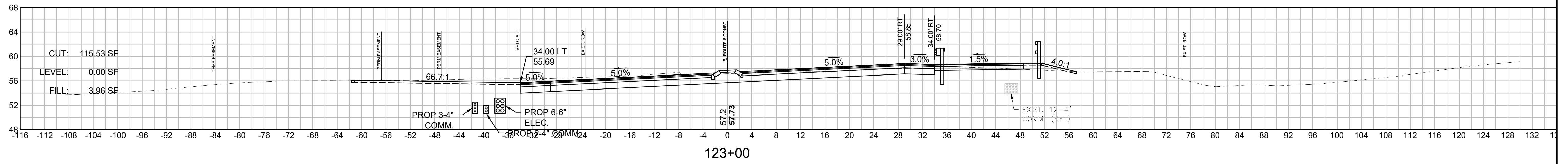
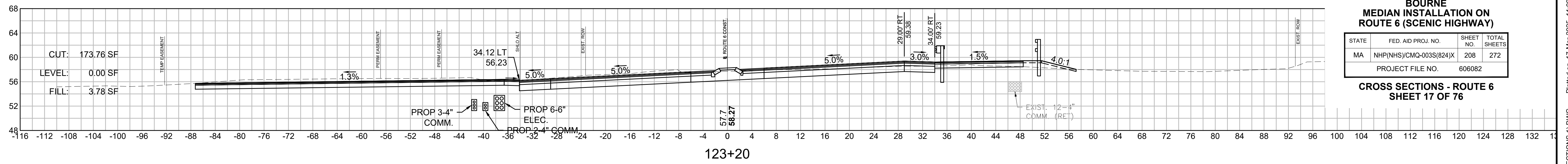


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	208	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 17 OF 76**

**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%

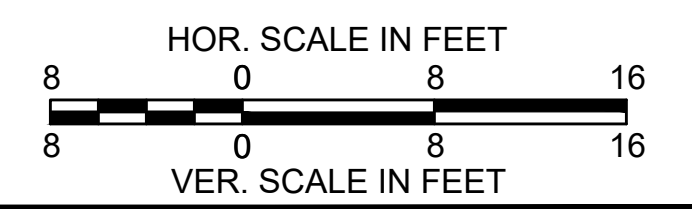
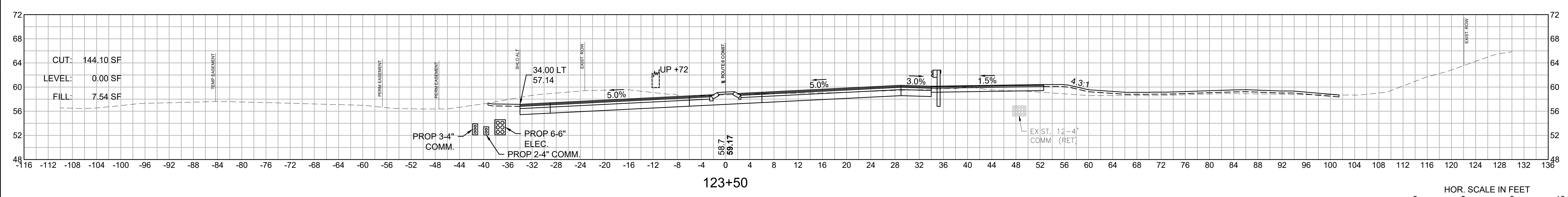
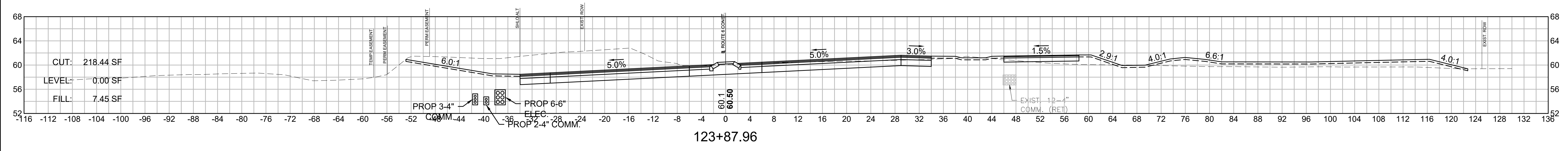
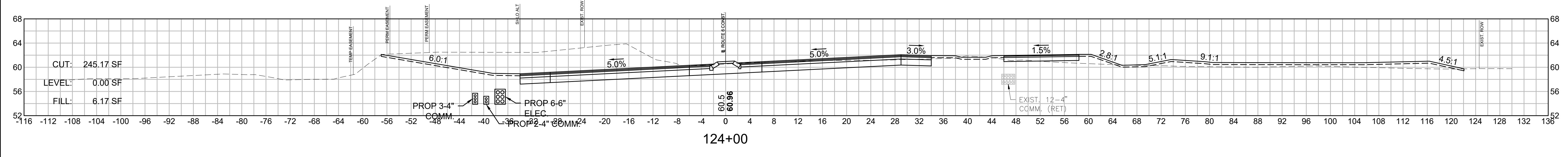
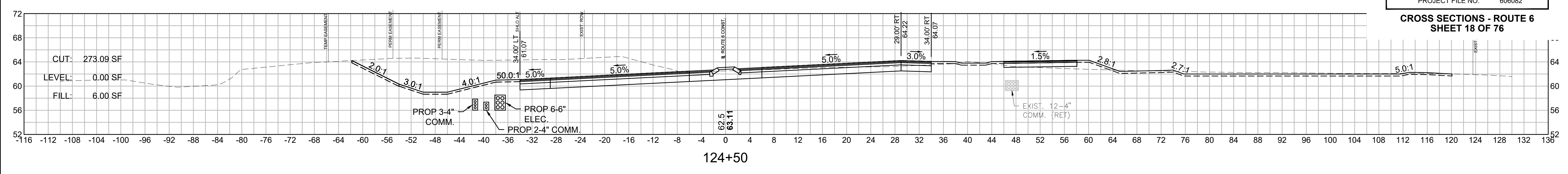


SUPERELEVATION:  
 PC STA 114+88.63  
 PT STA 132+87.28  
 R=1950.00'  
 BANK = 5.0%

**BOURNE  
 MEDIAN INSTALLATION ON  
 ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	209	272
PROJECT FILE NO.			606082

**CROSS SECTIONS - ROUTE 6  
 SHEET 18 OF 76**

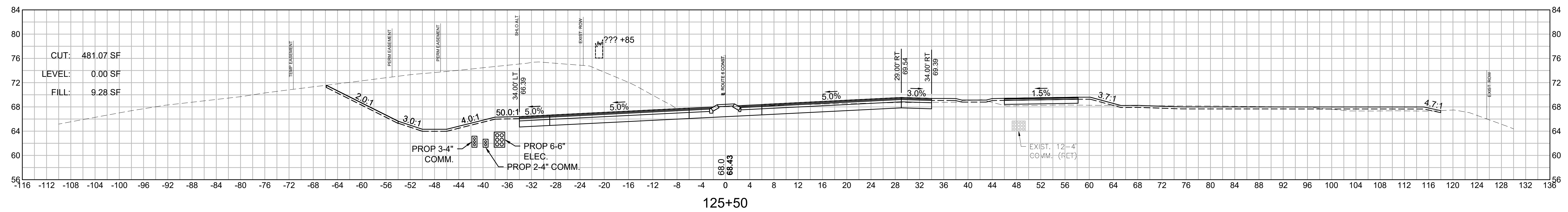
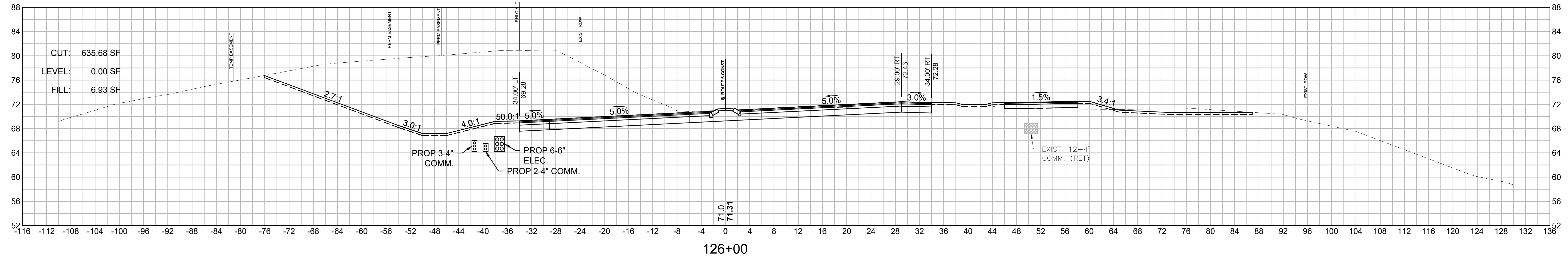




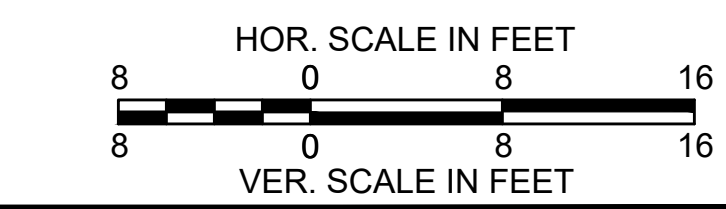
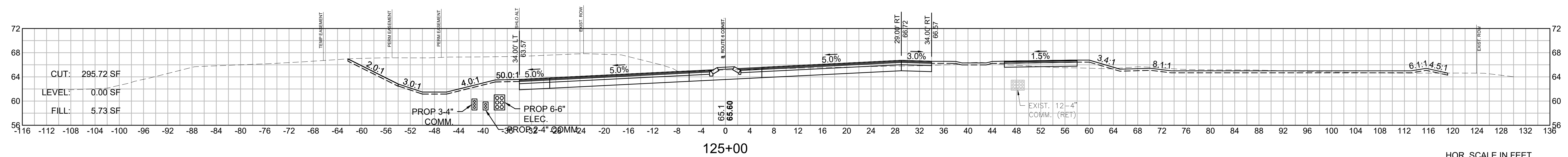
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	210	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 19 OF 76**



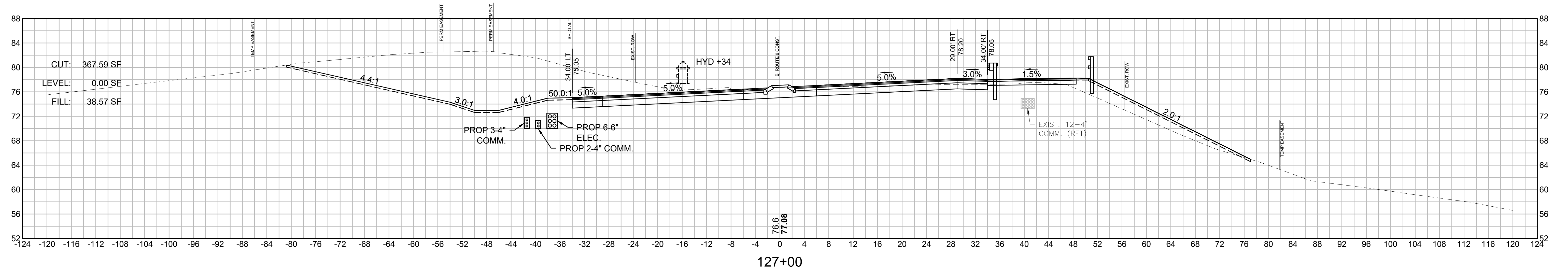
**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%



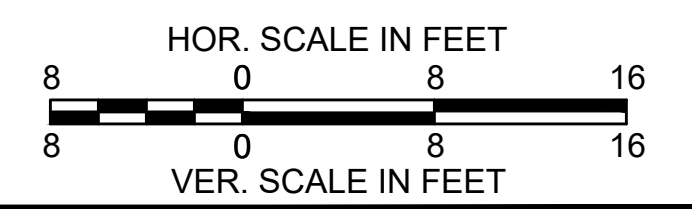
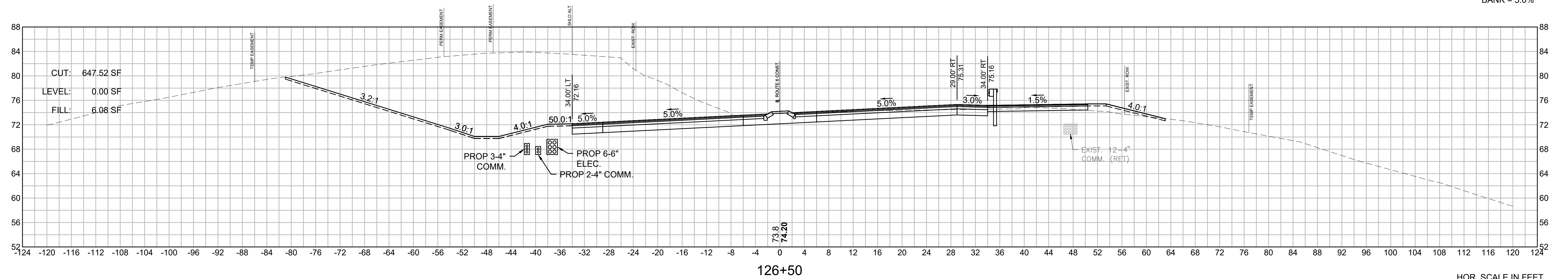
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	211	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 20 OF 76**



**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%



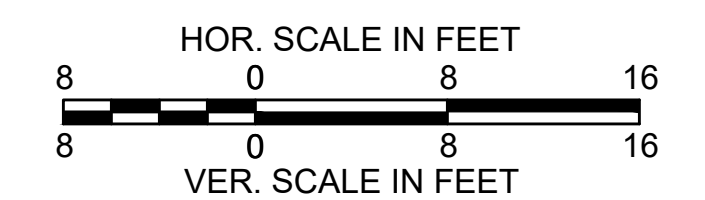
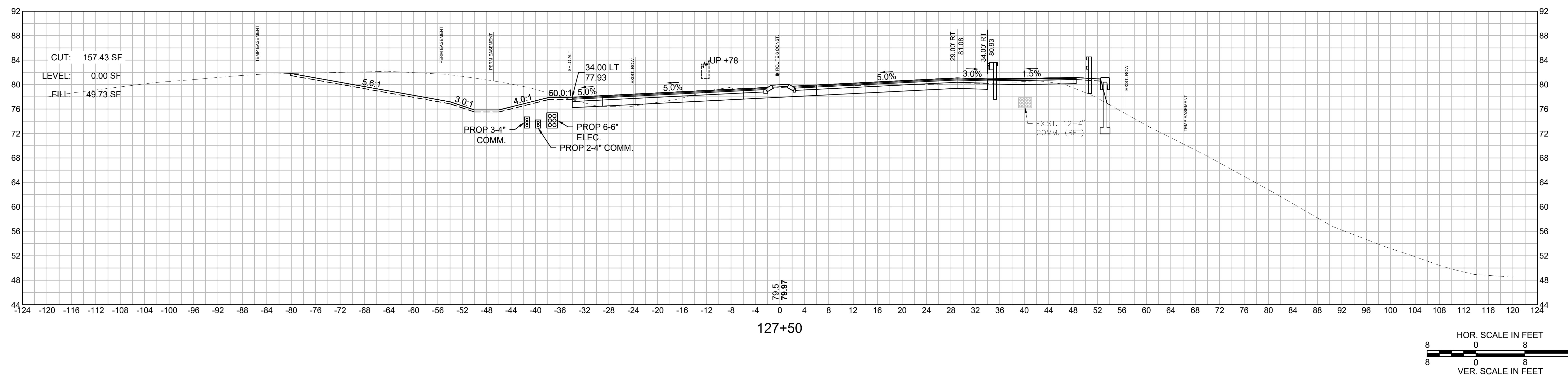
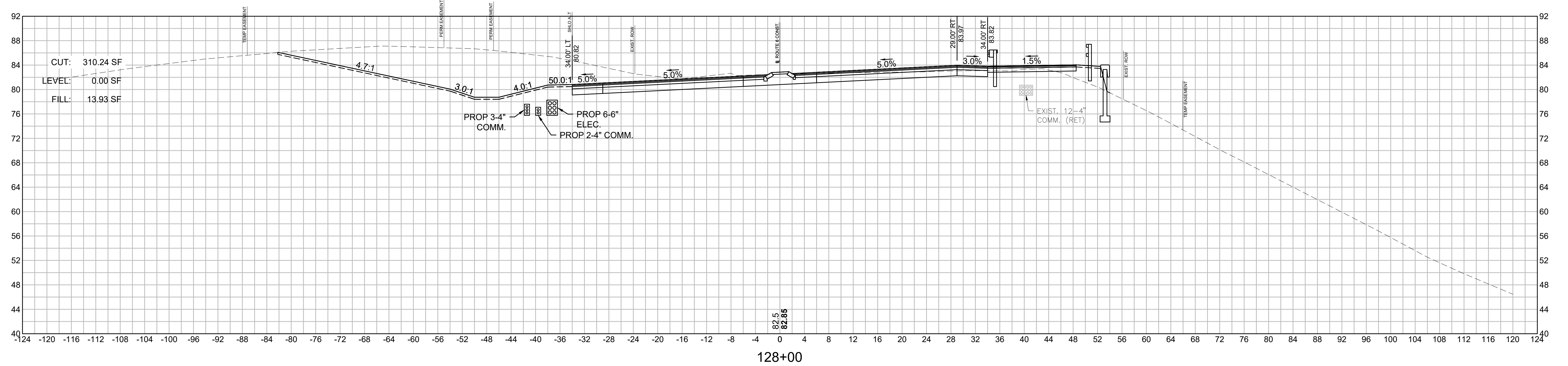


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

SUPERELEVATION:  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	212	272
PROJECT FILE NO.		606082	

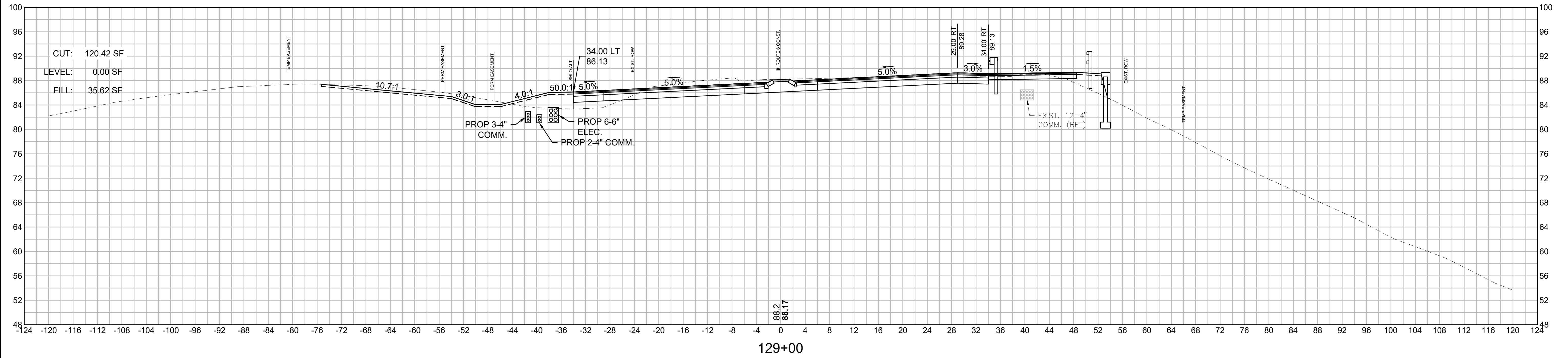
**CROSS SECTIONS - ROUTE 6  
SHEET 21 OF 76**



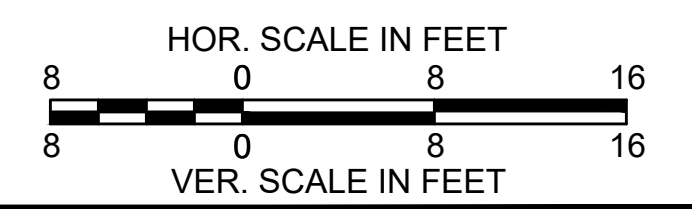
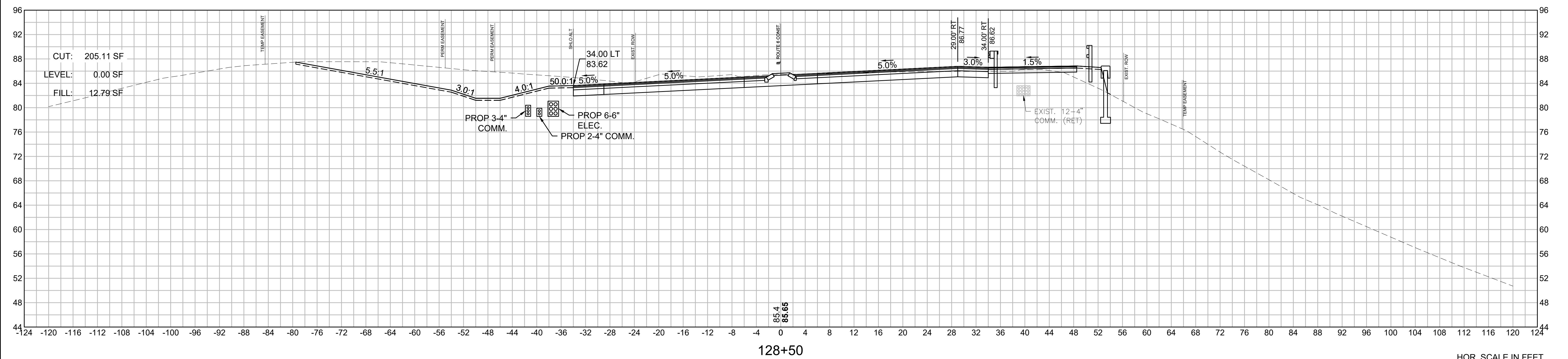
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	213	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 22 OF 76**



**SUPERELEVATION:**  
 PC STA 114+88.63  
 PT STA 132+87.28  
 R=1950.00'  
 BANK = 5.0%

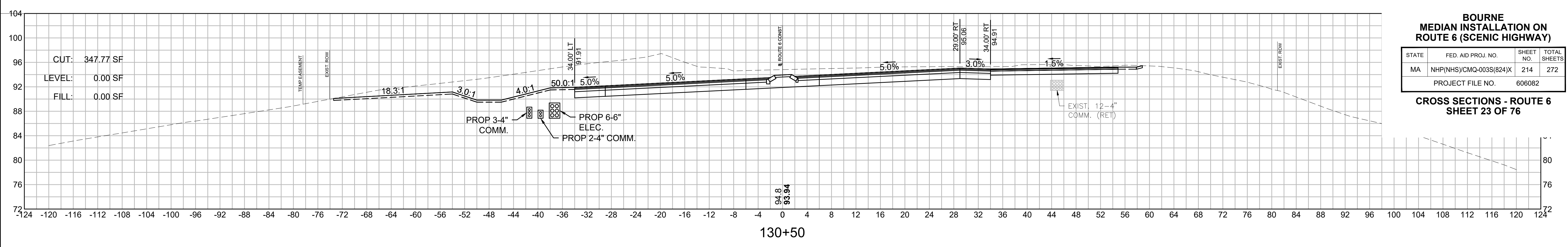




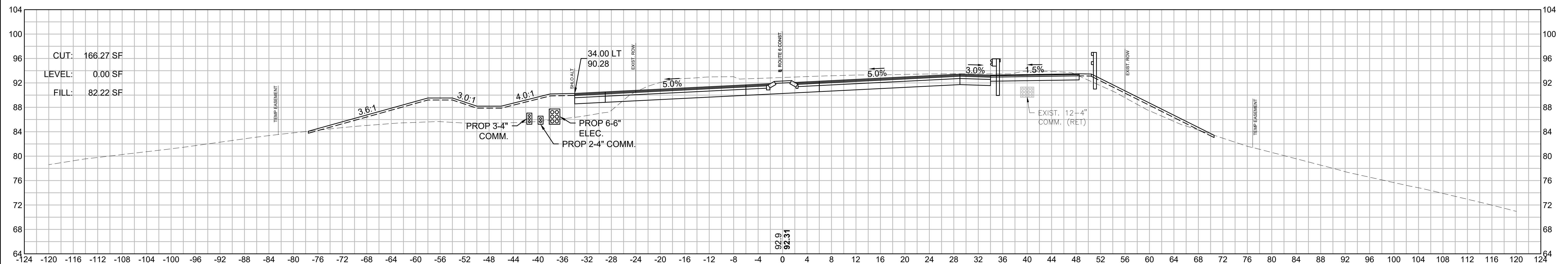
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	214	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 23 OF 76**

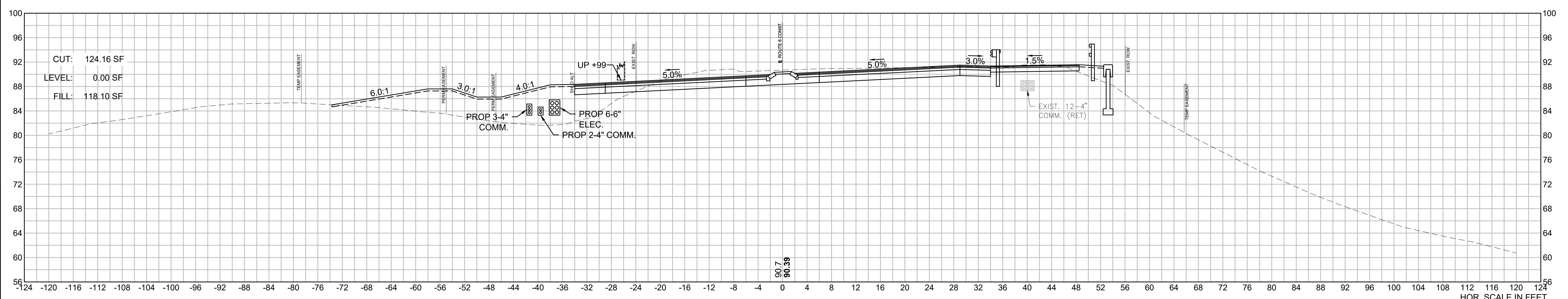


130+50

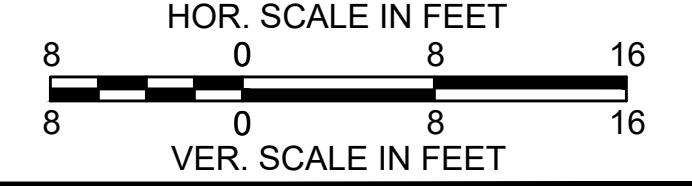


130+00

SUPERELEVATION:  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%



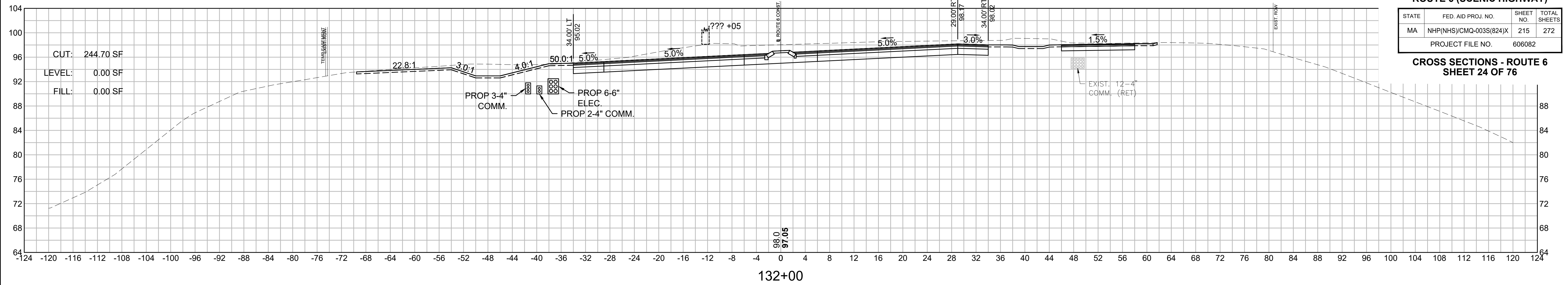
129+50



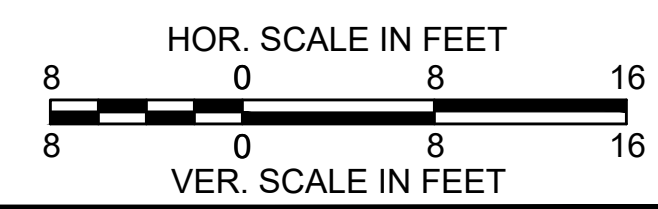
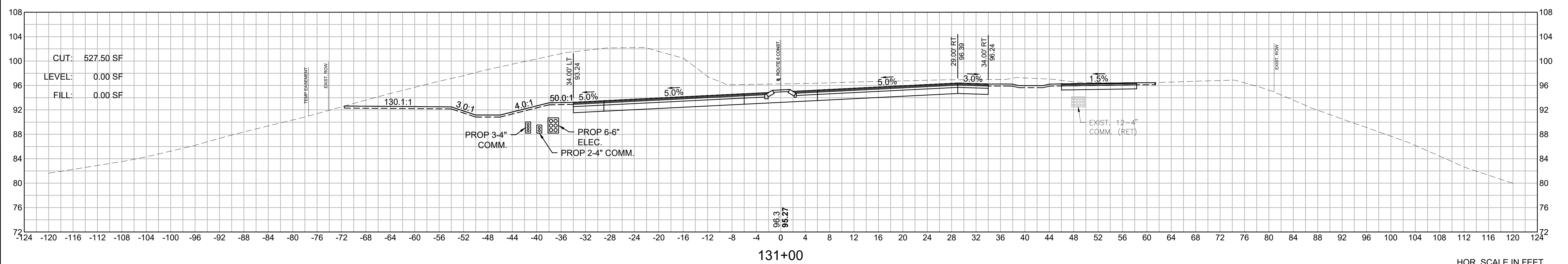
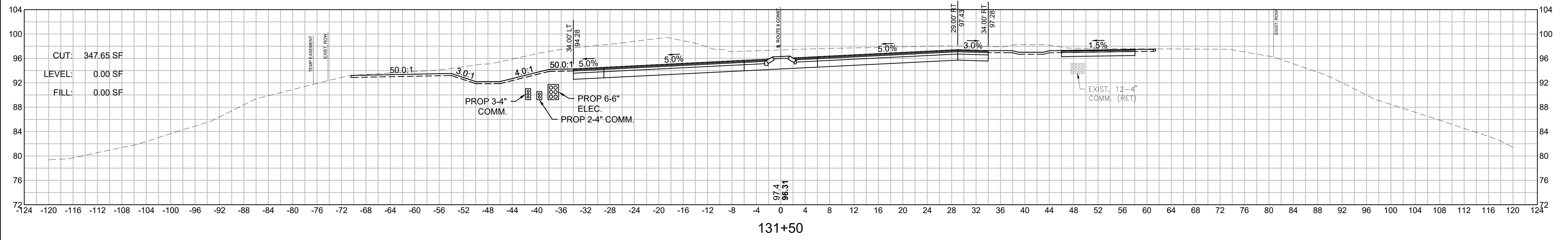
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	215	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 24 OF 76**



**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%



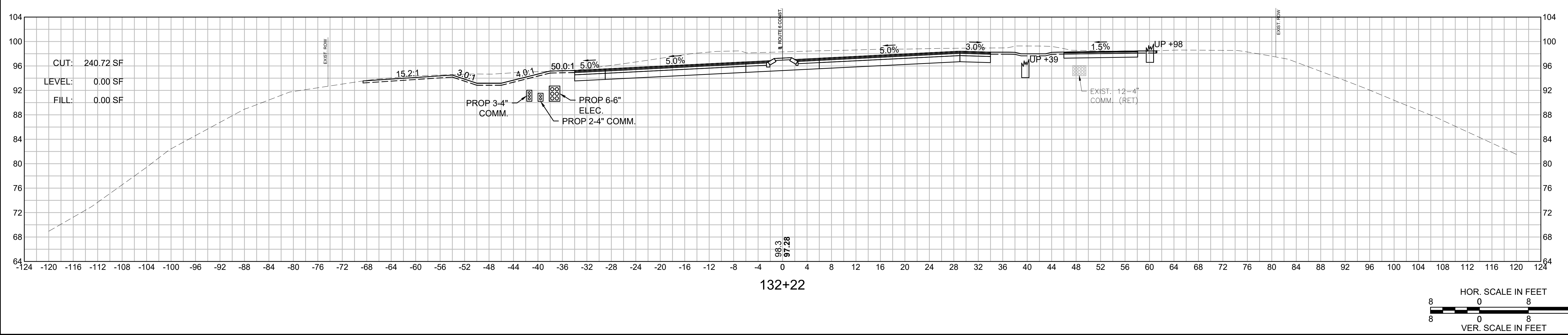


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	216	272
PROJECT FILE NO.		606082	

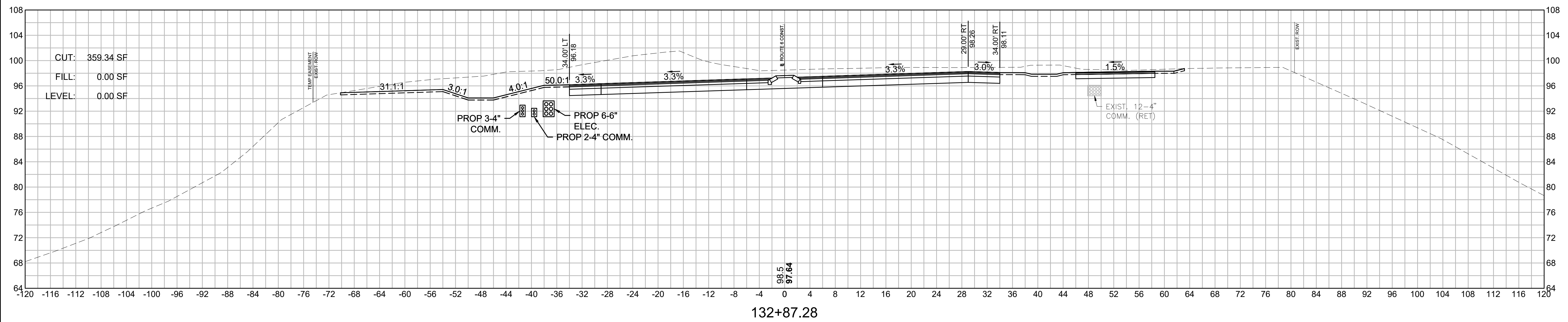
**CROSS SECTIONS - ROUTE 6  
SHEET 25 OF 76**



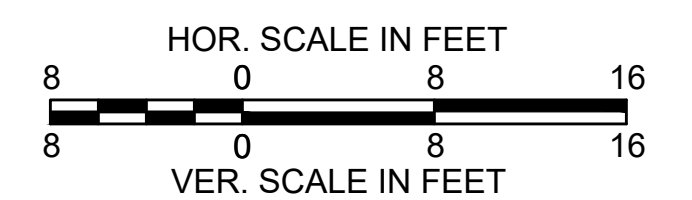
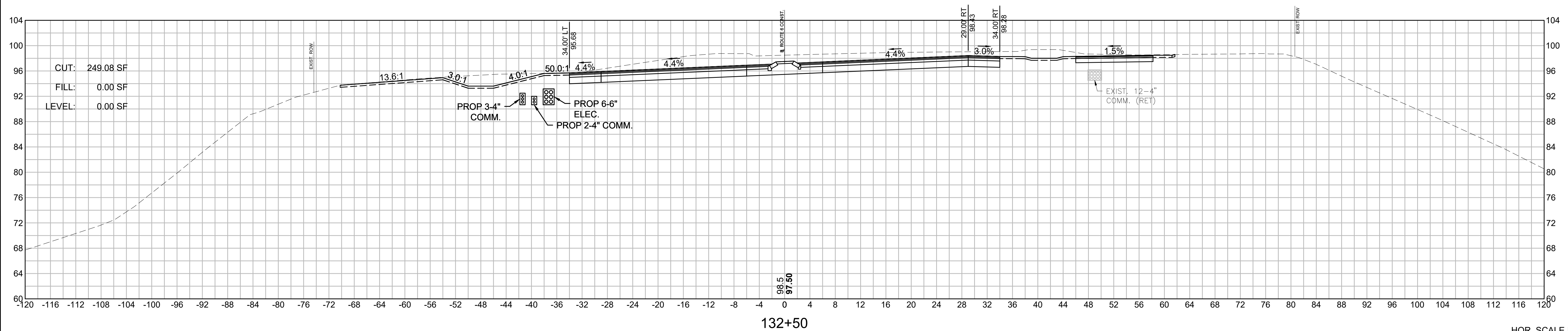
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	217	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 26 OF 76**



**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%

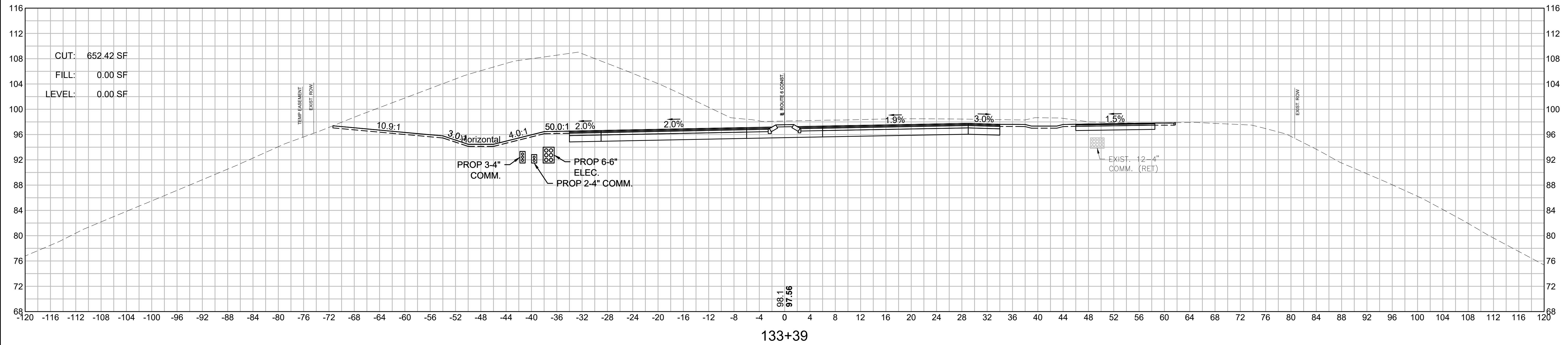




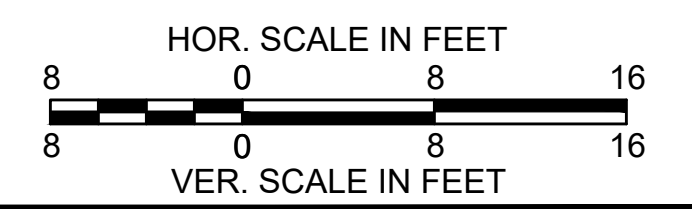
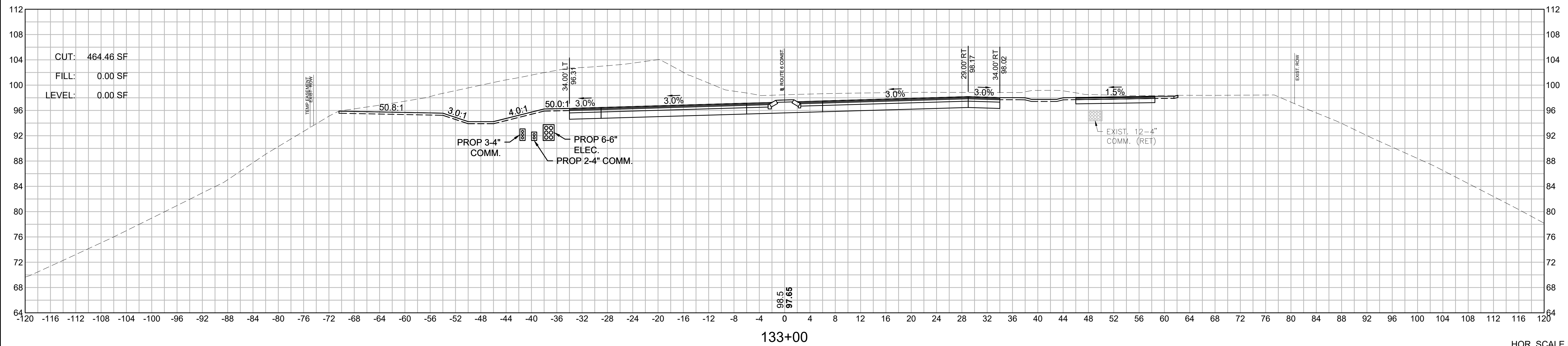
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	218	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 27 OF 76**



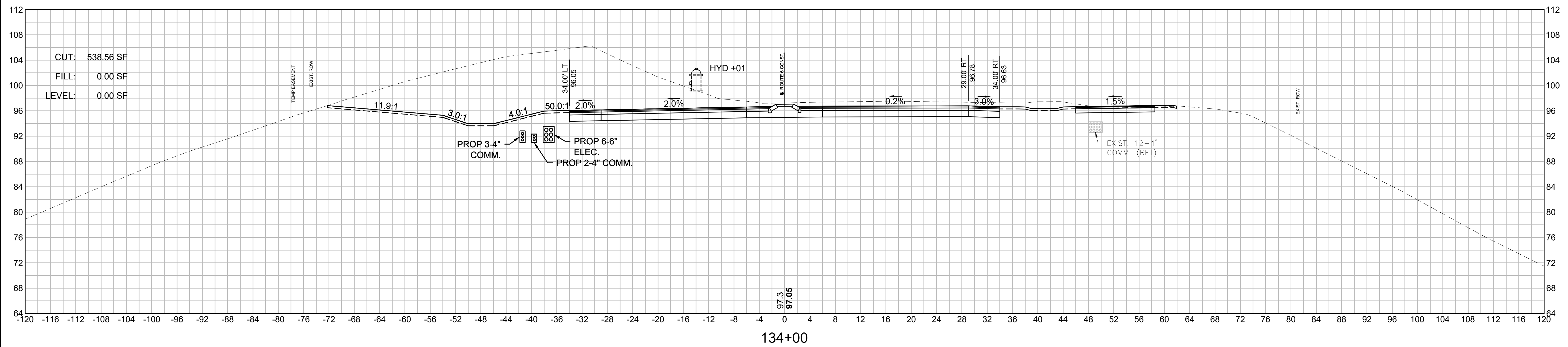
**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%



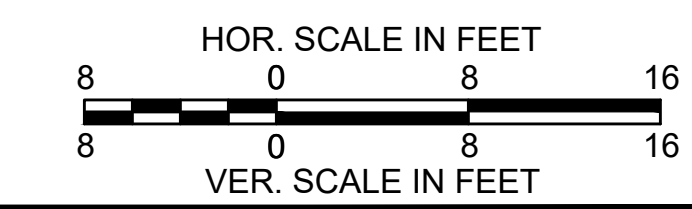
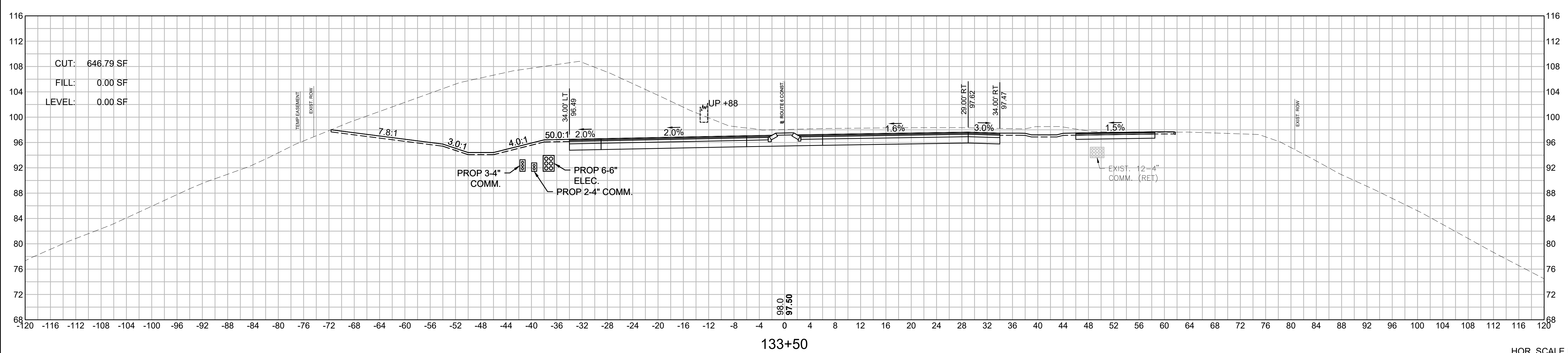
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	219	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 28 OF 76**



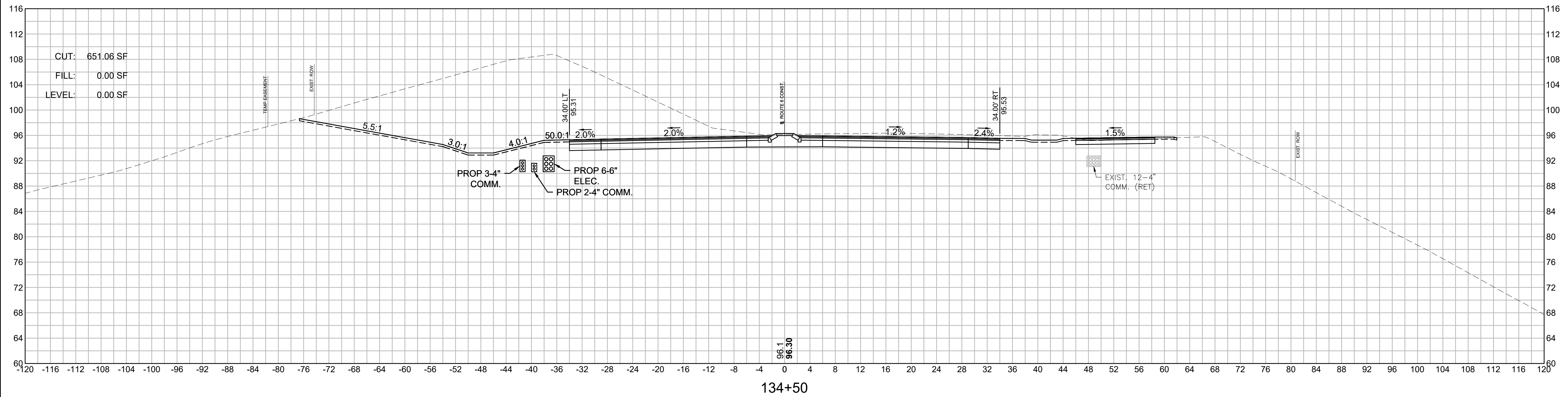
**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%



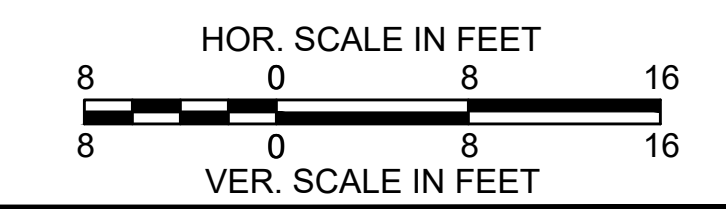
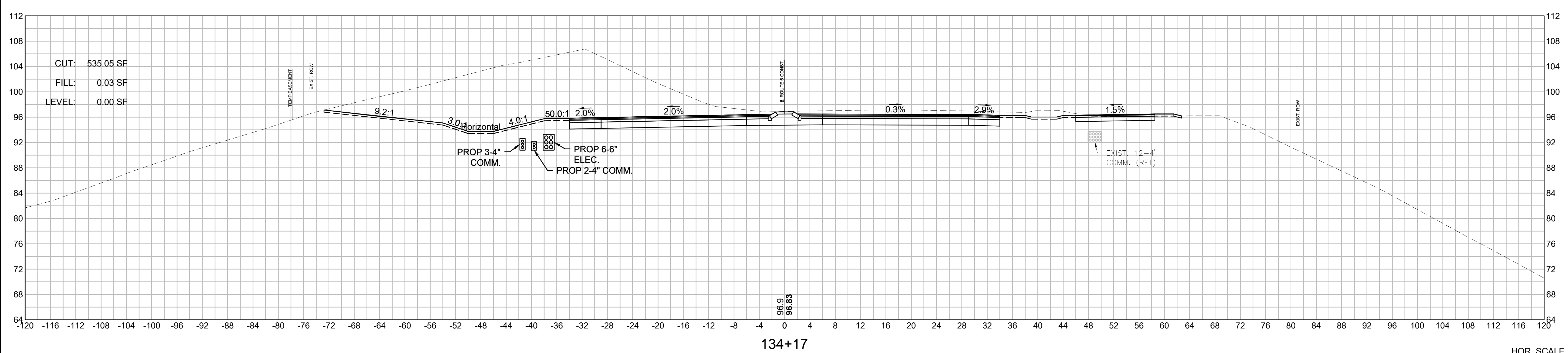
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	220	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 29 OF 76**



**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%

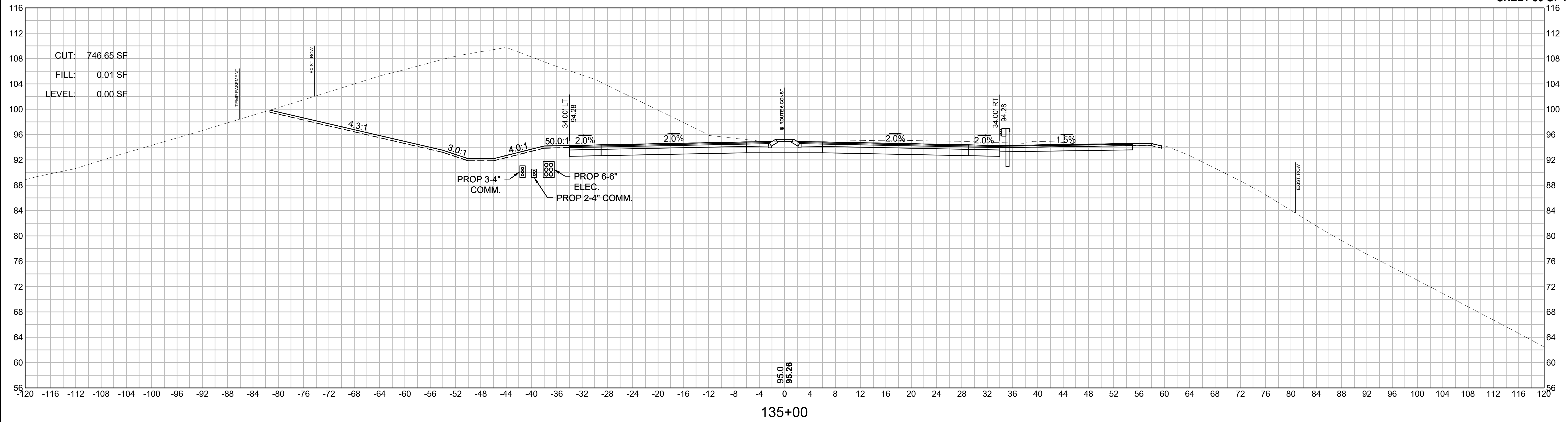




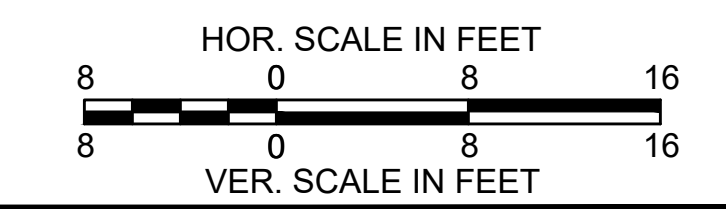
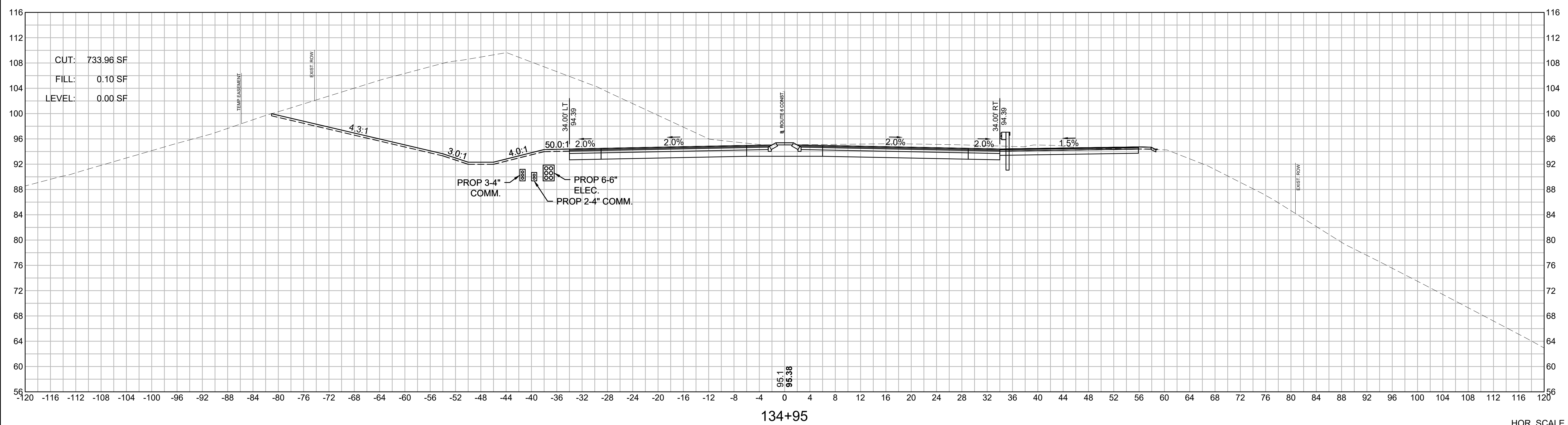
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	221	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 30 OF 76**



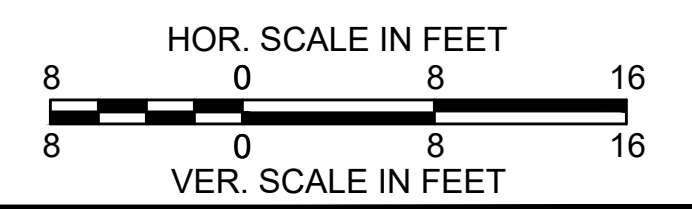
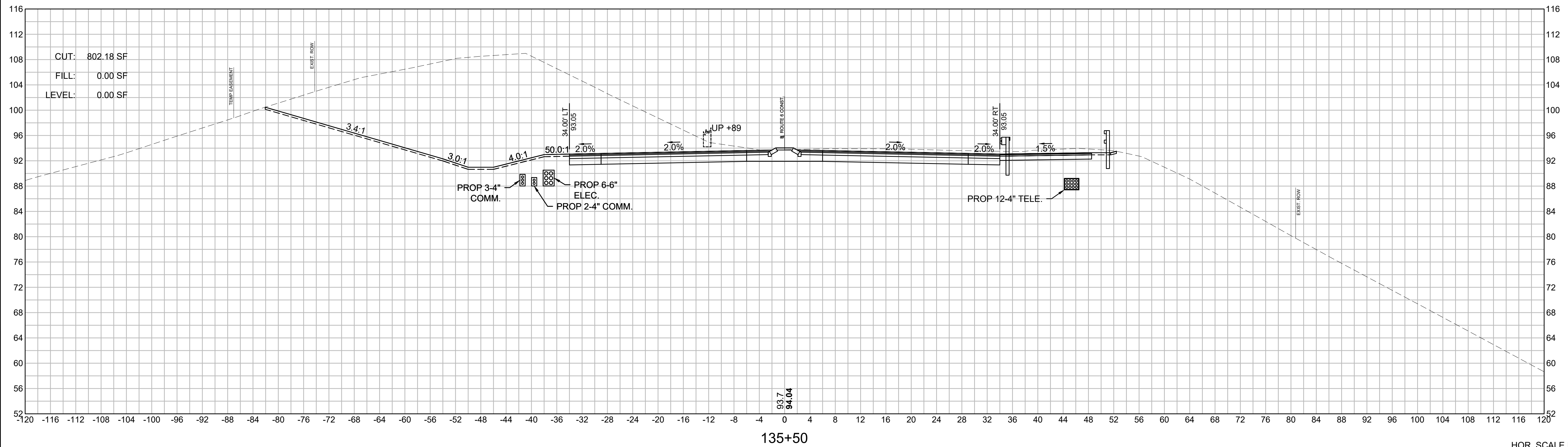
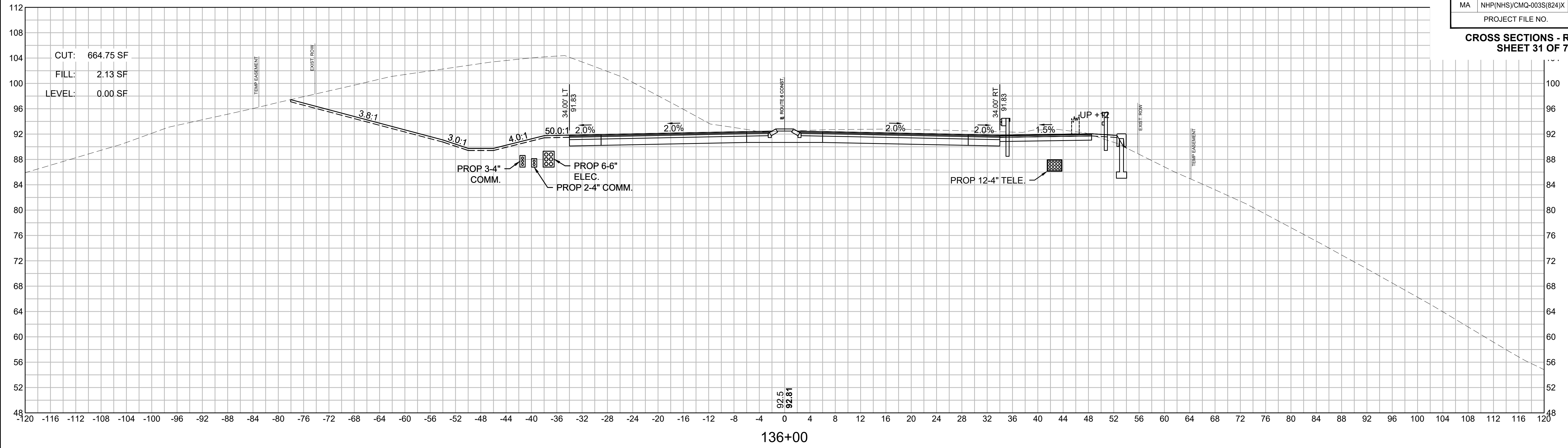
**SUPERELEVATION:**  
PC STA 114+88.63  
PT STA 132+87.28  
R=1950.00'  
BANK = 5.0%



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	222	272
PROJECT FILE NO.		606082	

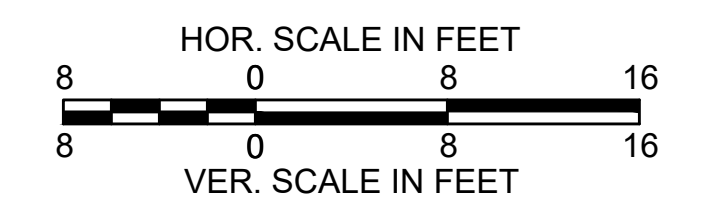
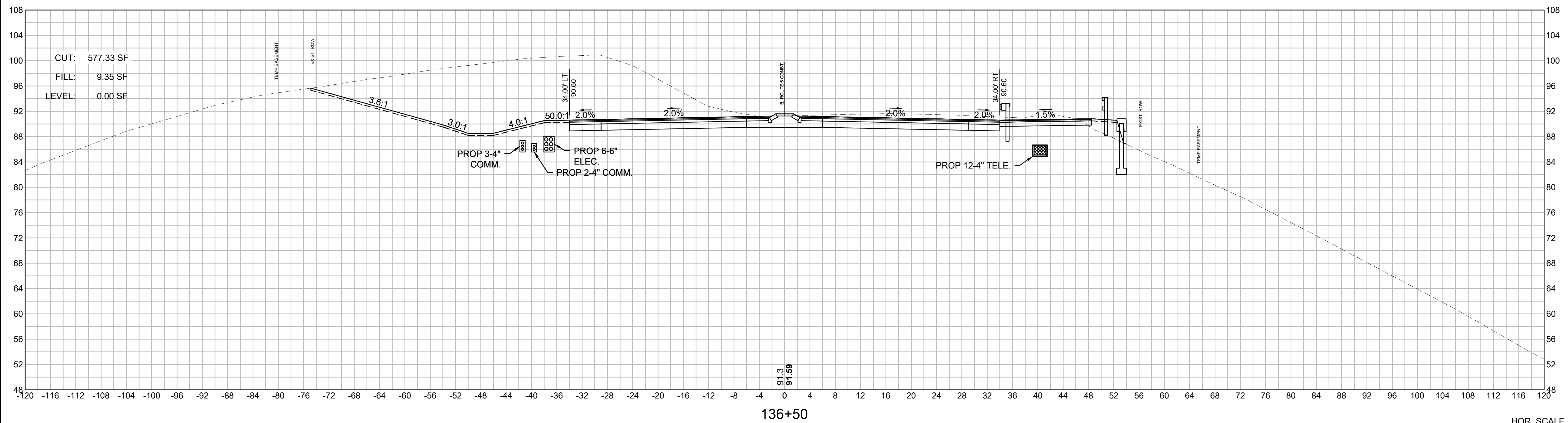
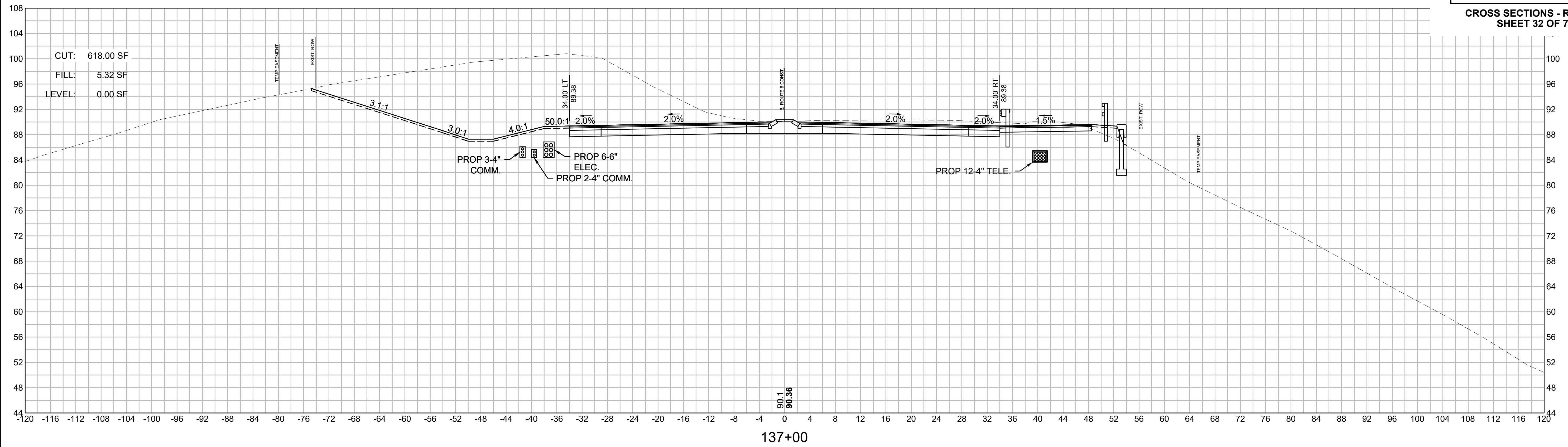
**CROSS SECTIONS - ROUTE 6  
SHEET 31 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	223	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 32 OF 76**

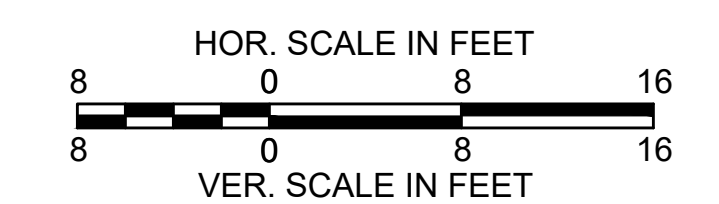
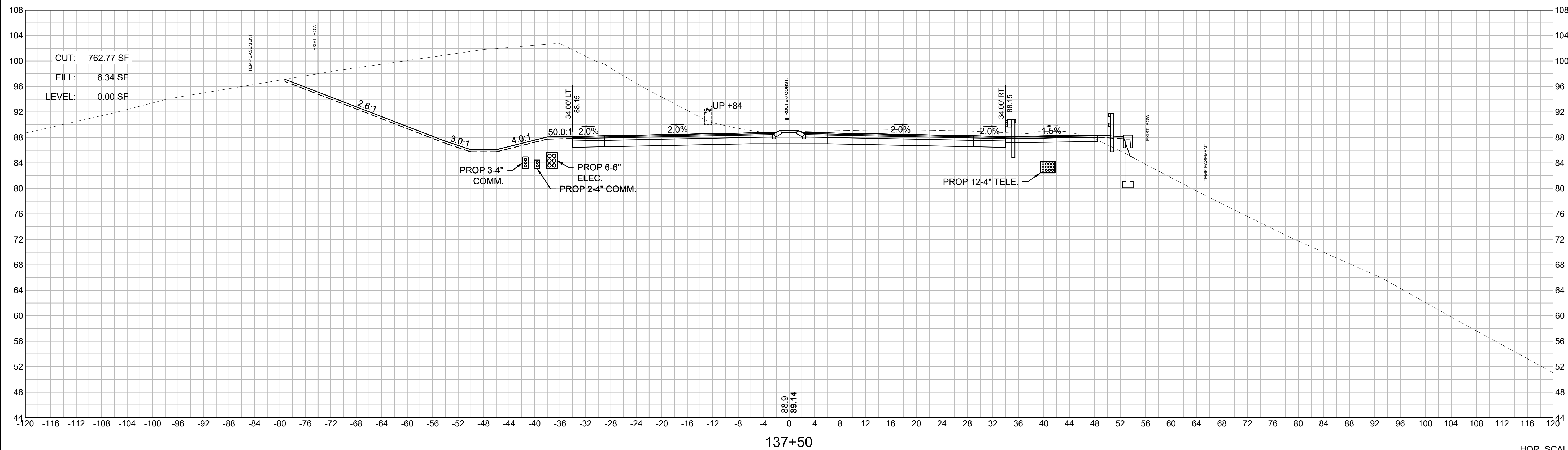
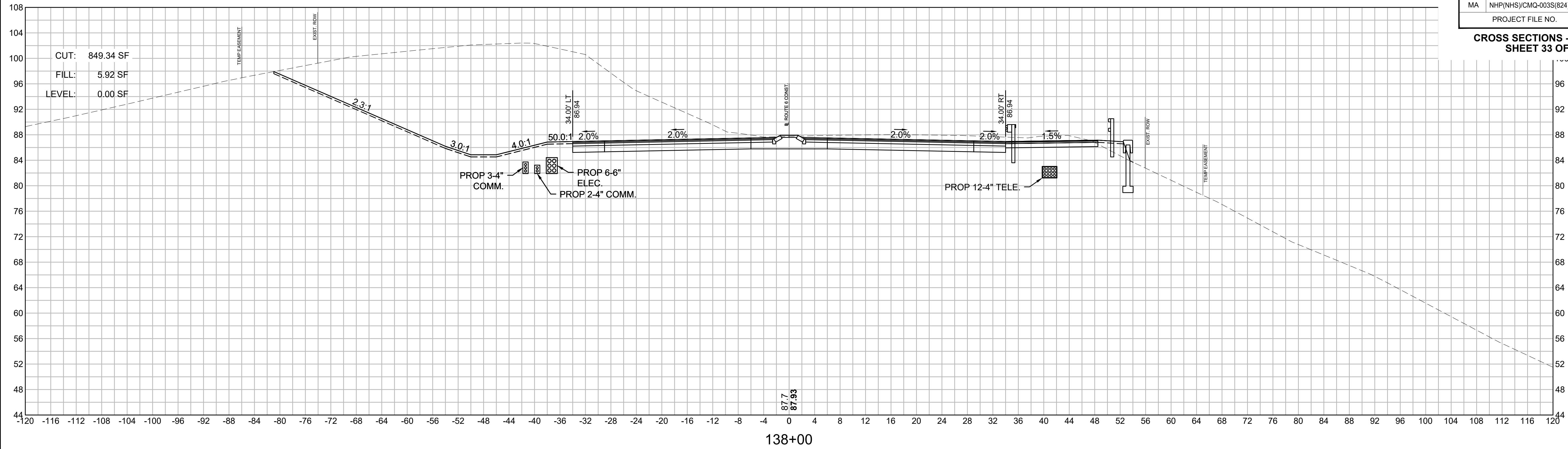




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	224	272
PROJECT FILE NO.		606082	

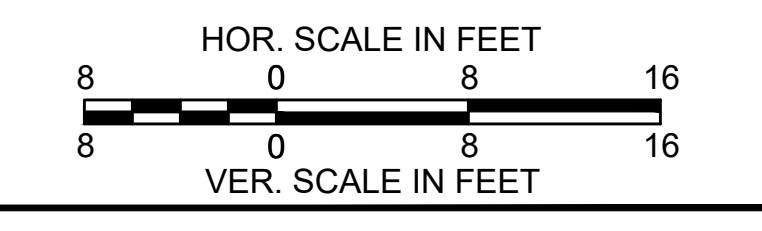
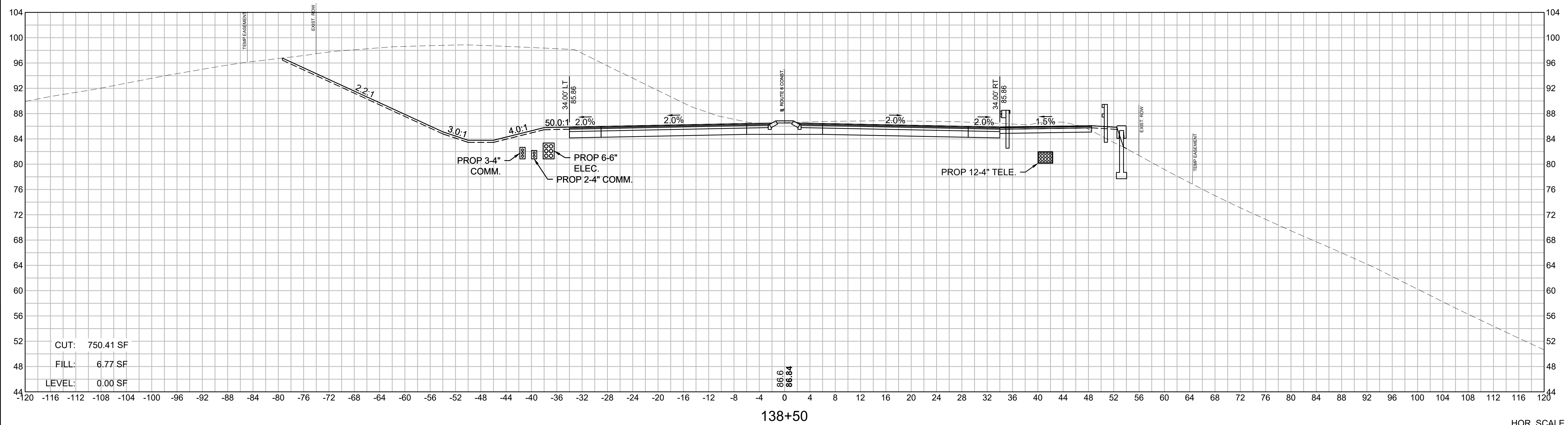
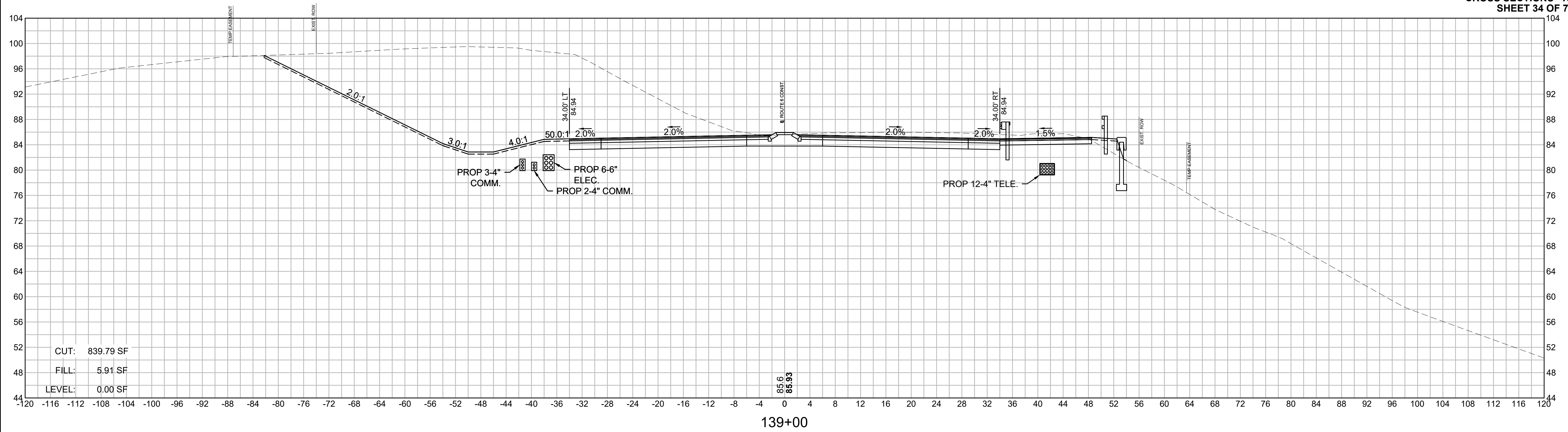
**CROSS SECTIONS - ROUTE 6  
SHEET 33 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	225	272
PROJECT FILE NO.		606082	

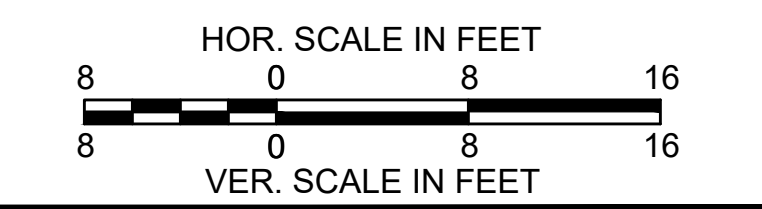
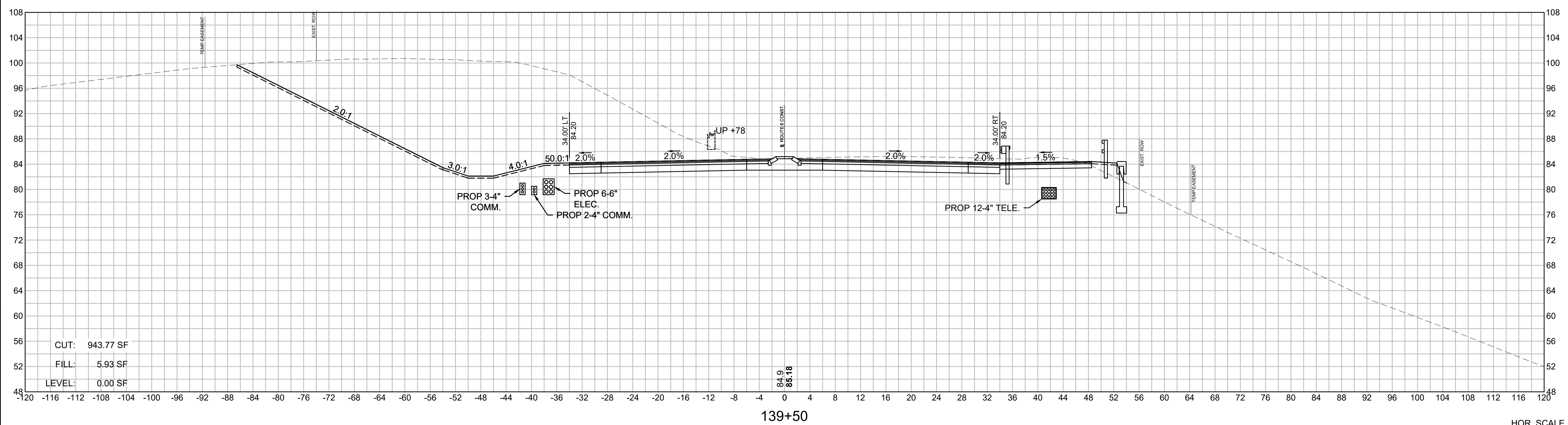
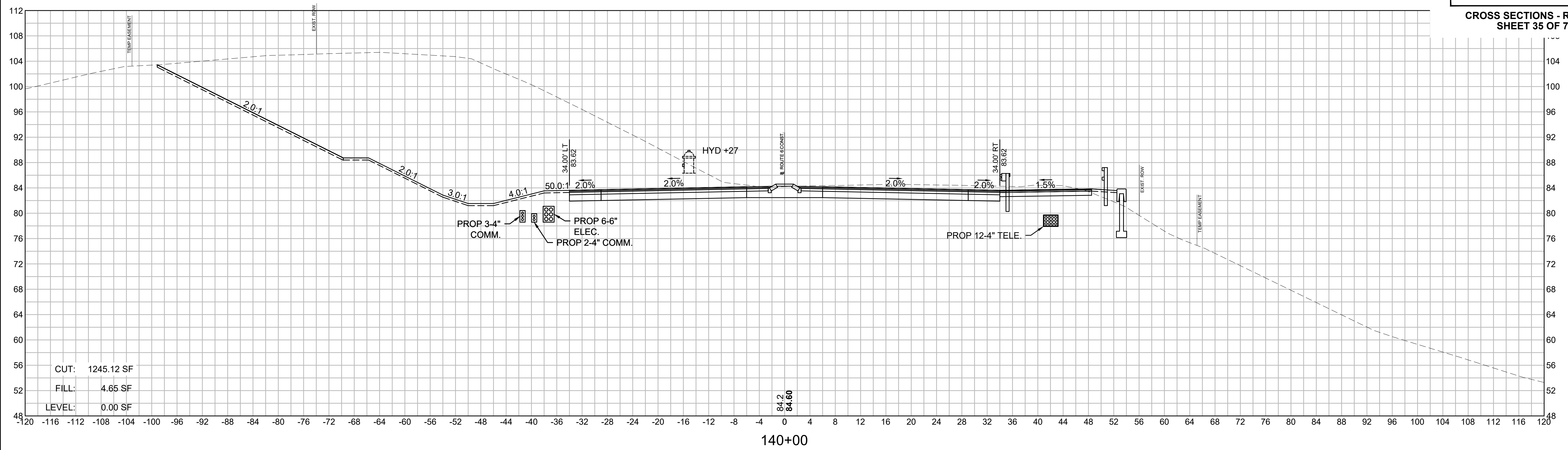
**CROSS SECTIONS - ROUTE 6  
SHEET 34 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	226	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 35 OF 76**

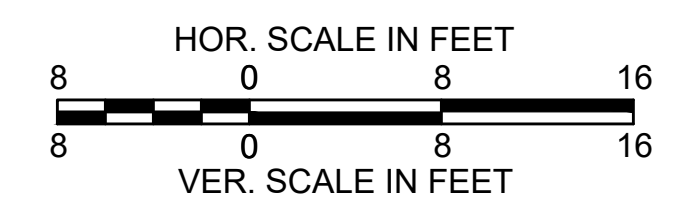
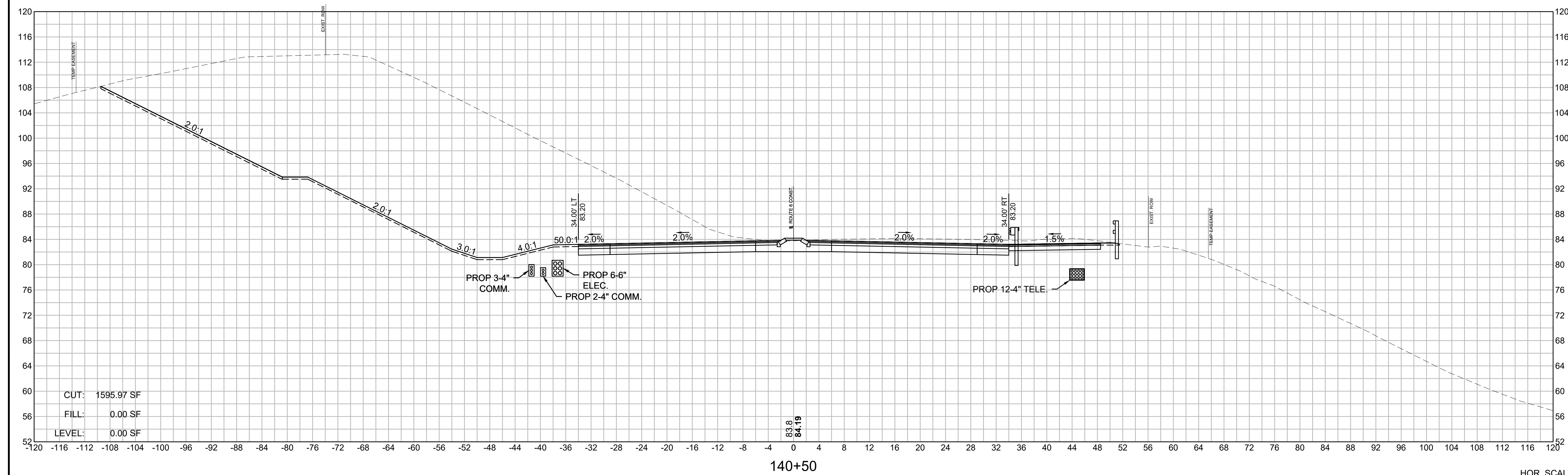
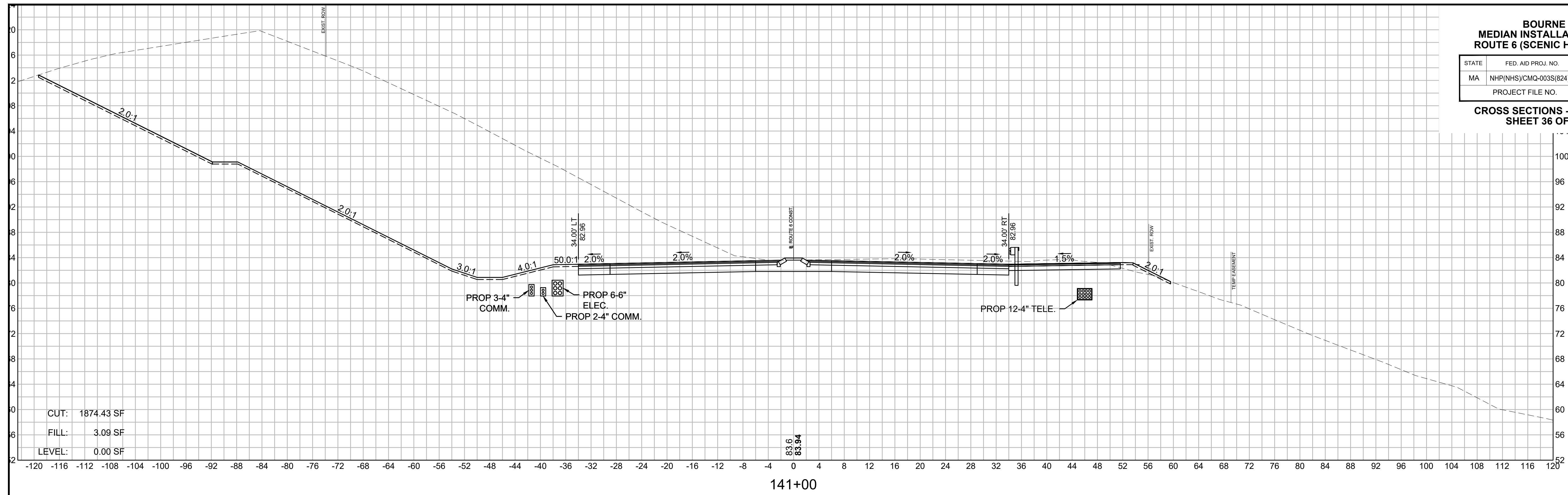




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	227	272
PROJECT FILE NO.		606082	

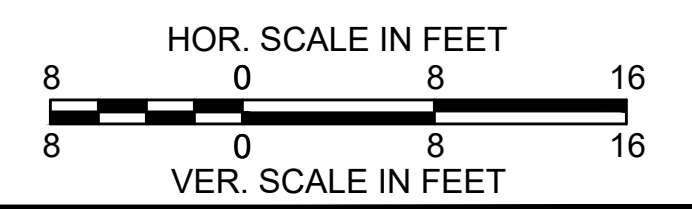
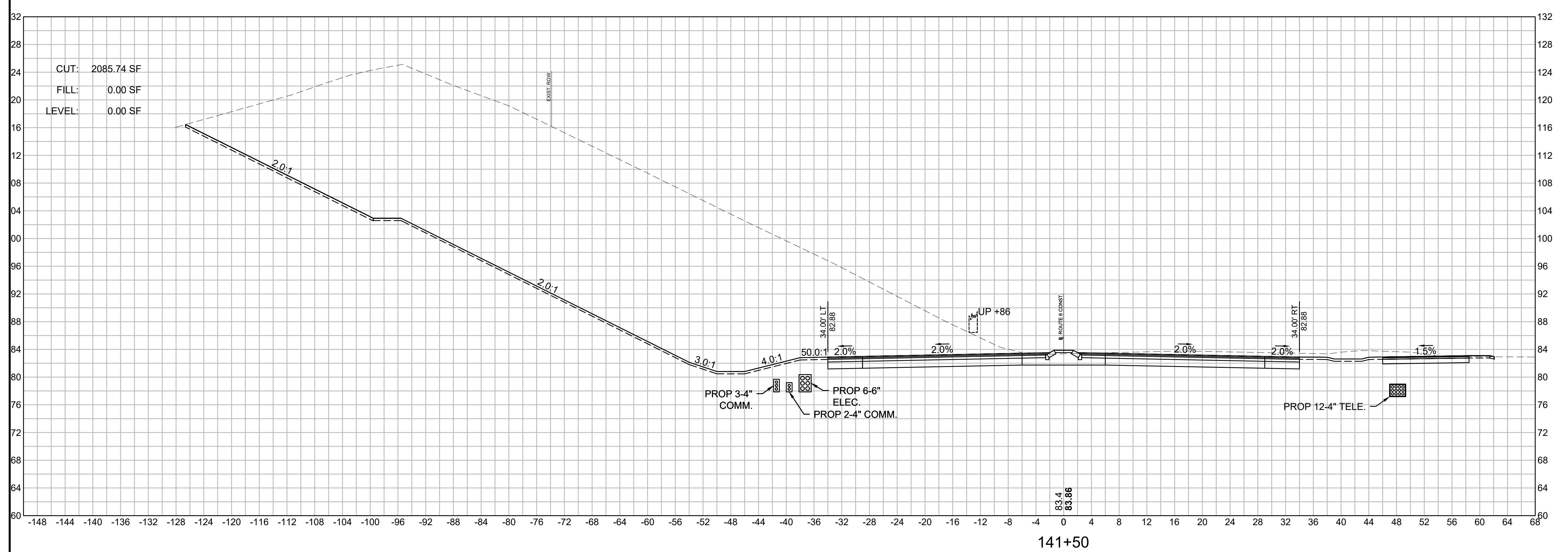
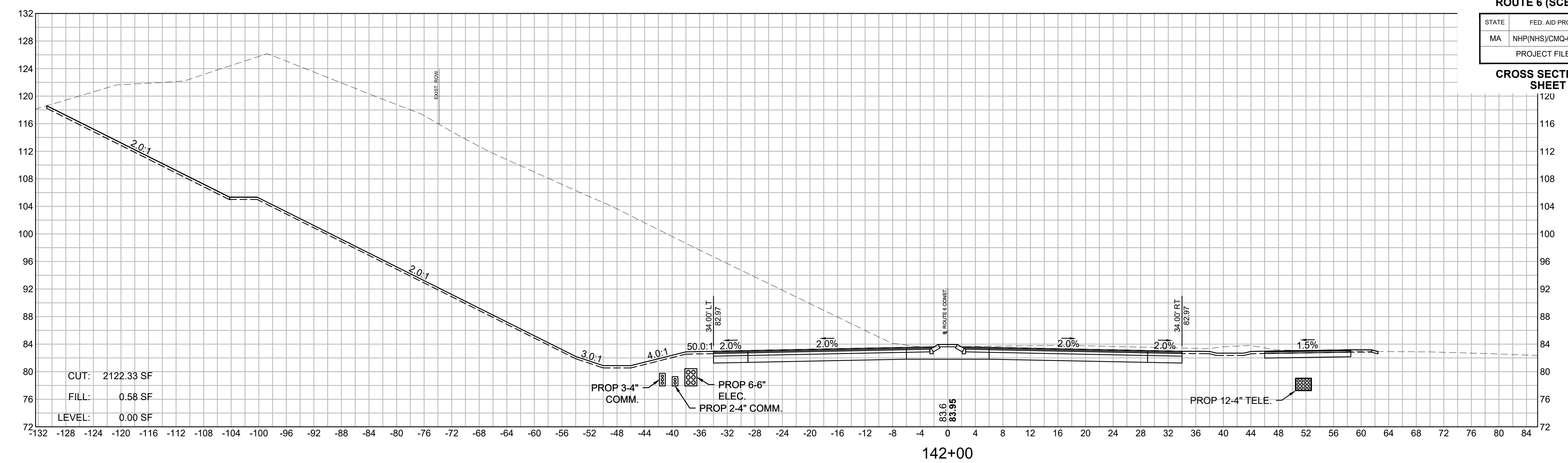
**CROSS SECTIONS - ROUTE 6  
SHEET 36 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	228	272
PROJECT FILE NO.		606082	

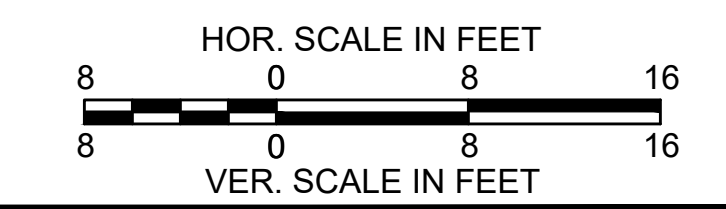
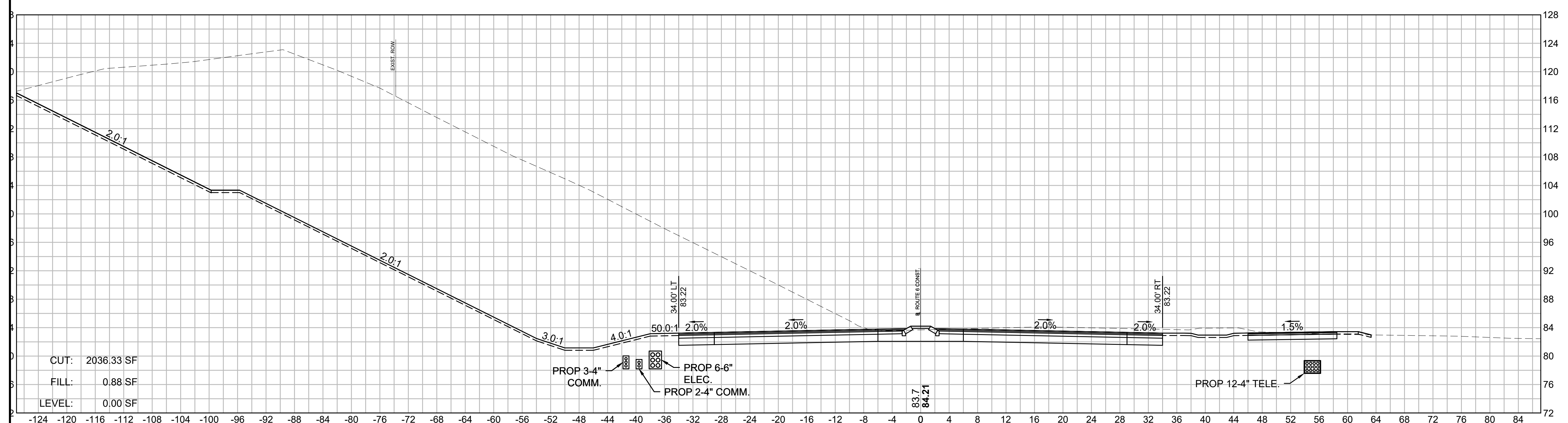
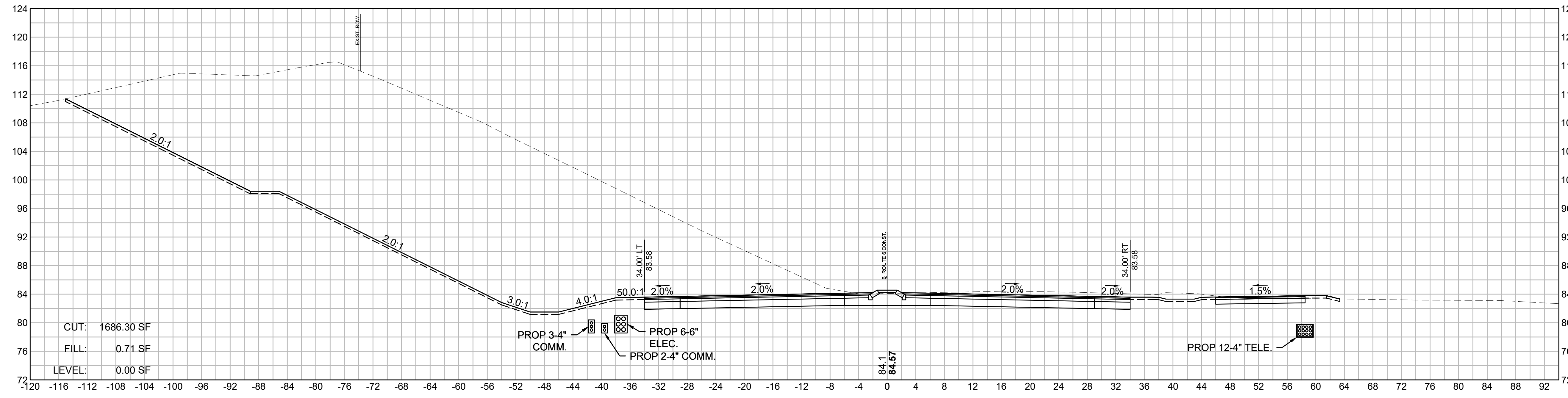
**CROSS SECTIONS - ROUTE 6  
SHEET 37 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	229	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 38 OF 76**

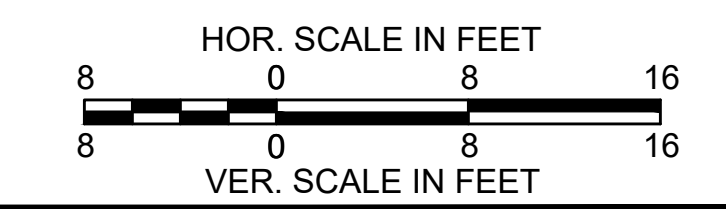
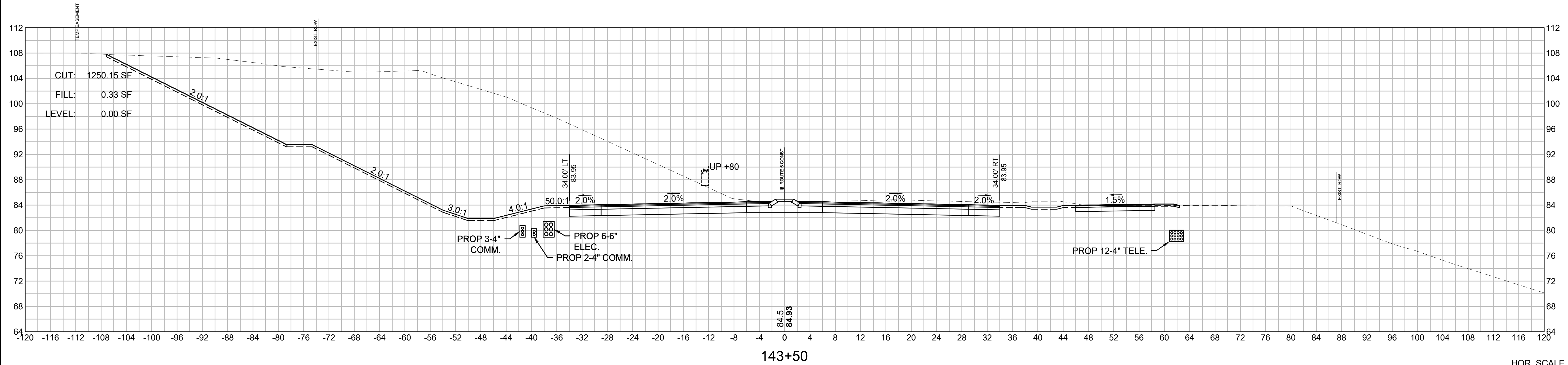
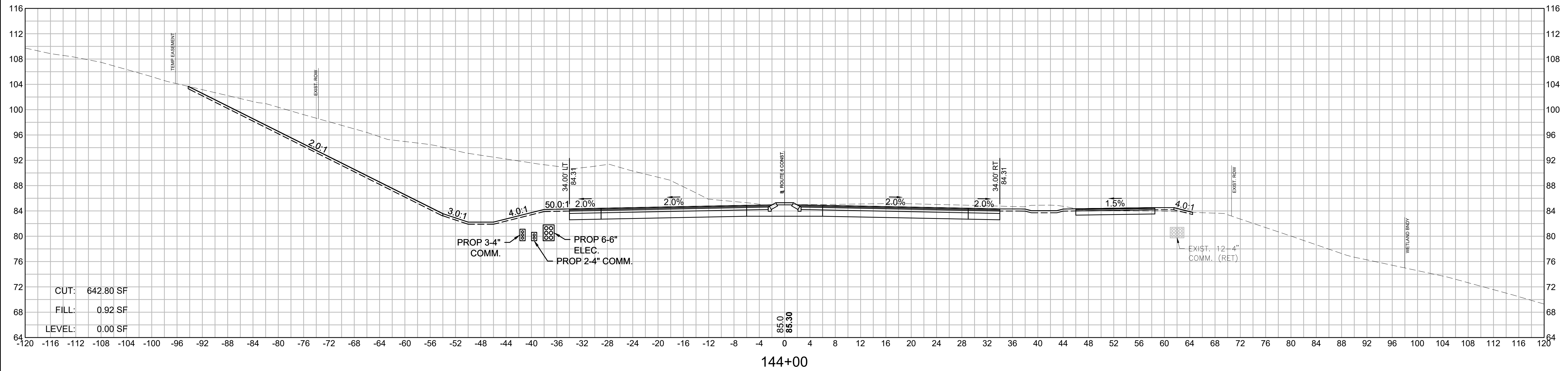




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	230	272
PROJECT FILE NO.		606082	

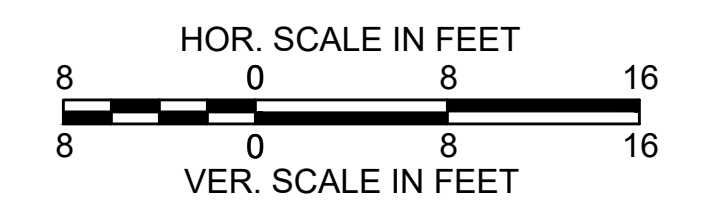
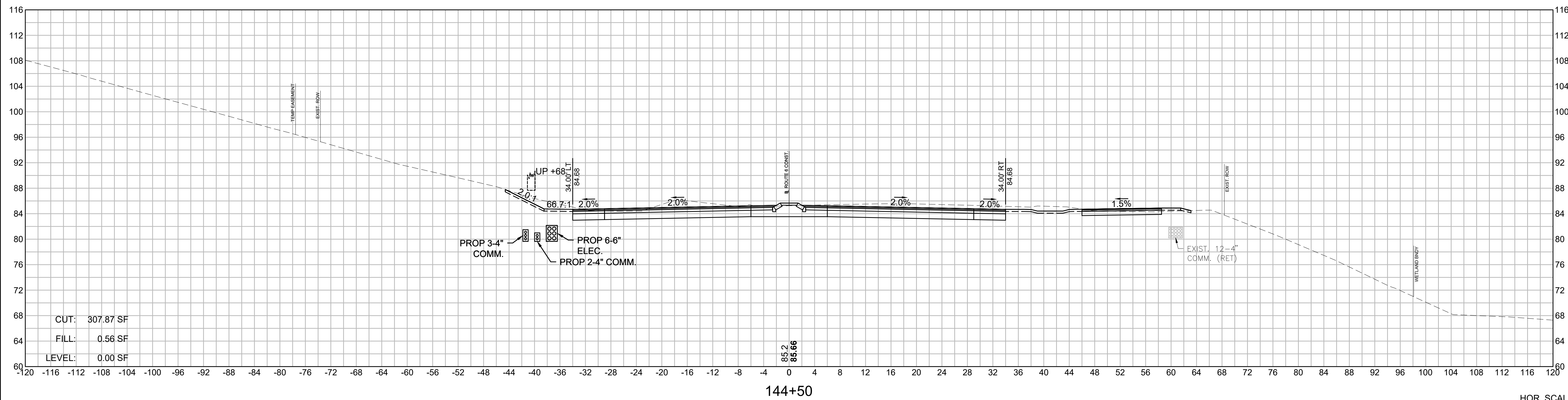
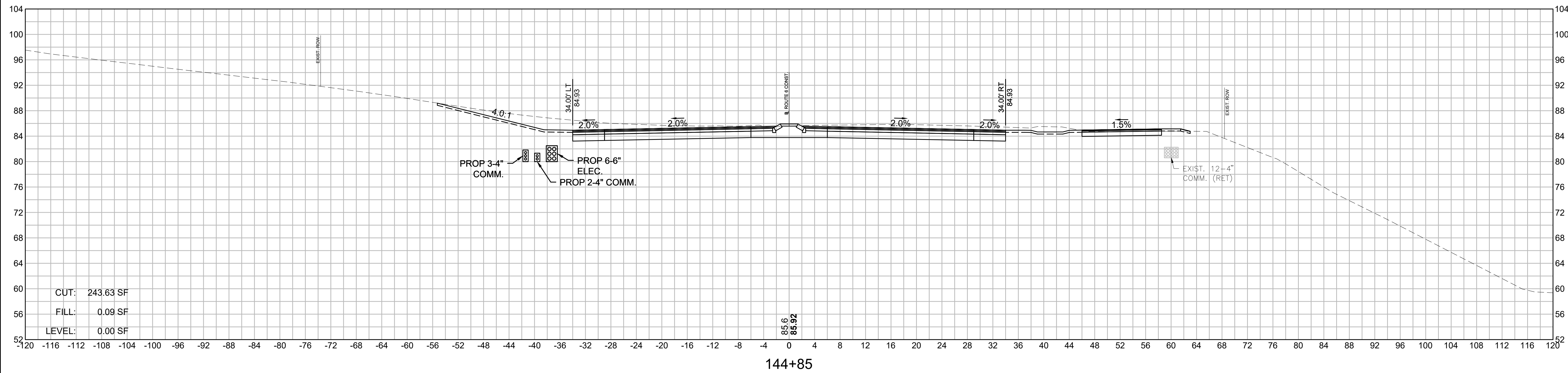
**CROSS SECTIONS - ROUTE 6  
SHEET 39 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	231	272
PROJECT FILE NO.		606082	

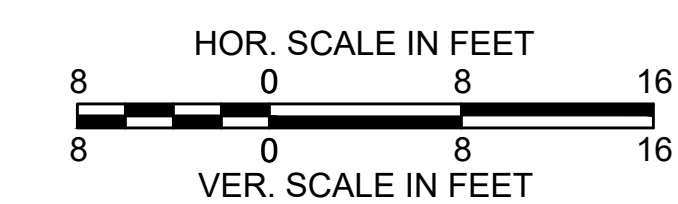
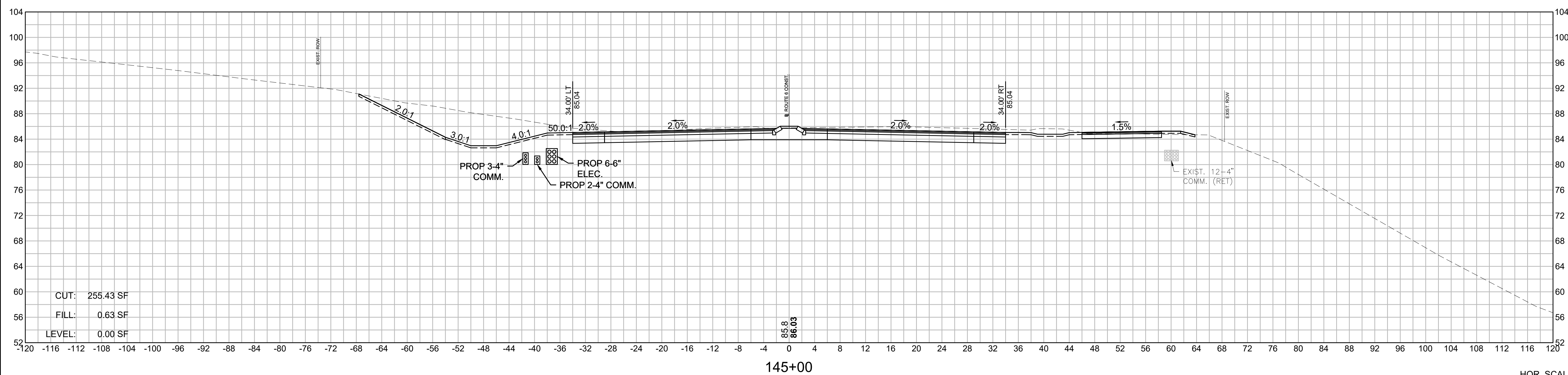
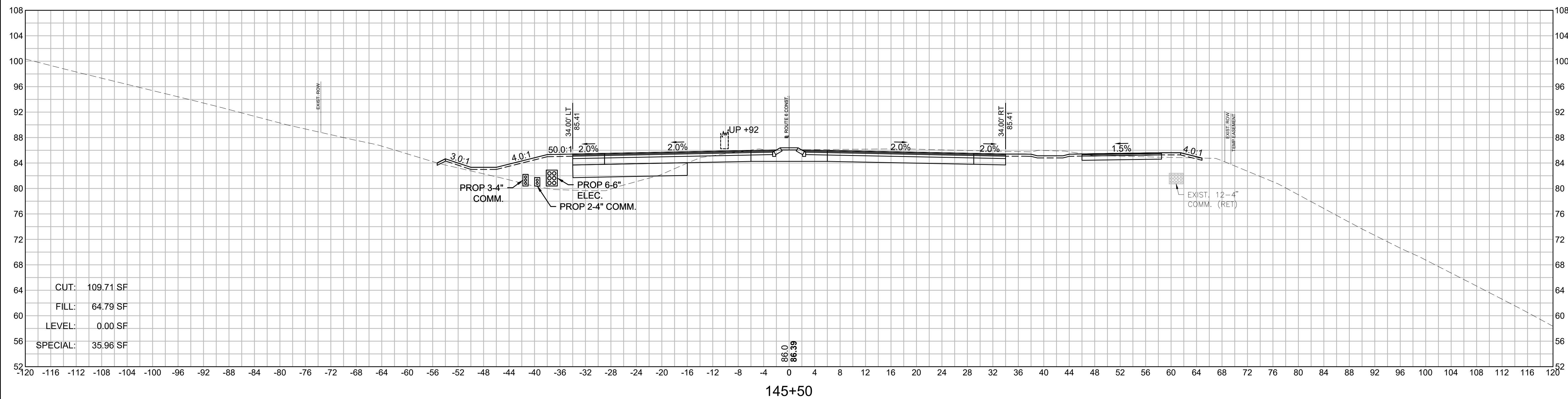
**CROSS SECTIONS - ROUTE 6  
SHEET 40 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	232	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 41 OF 76**

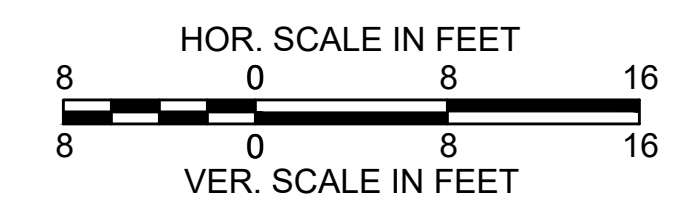
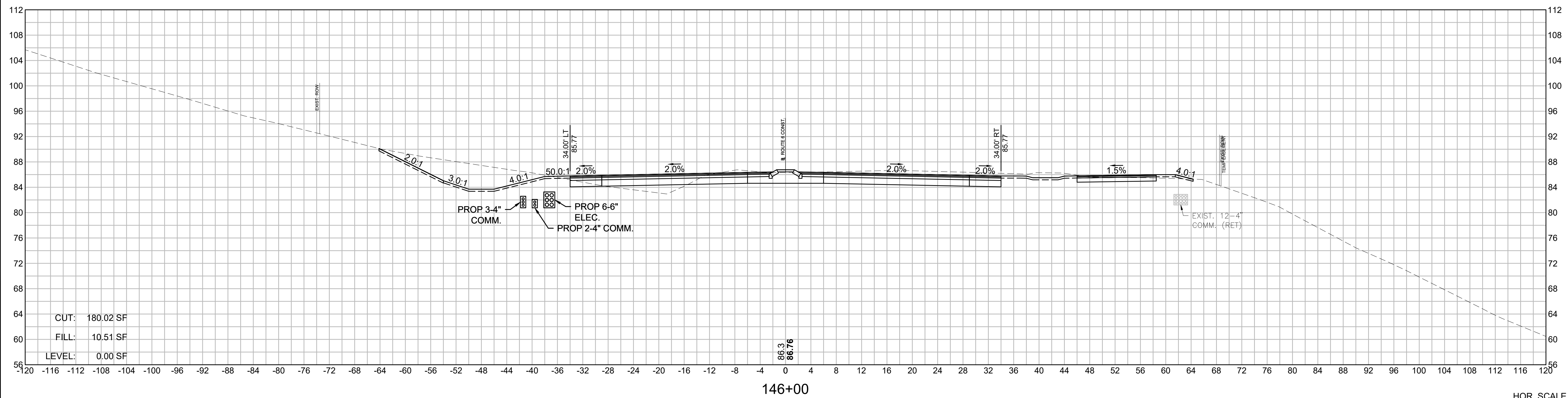
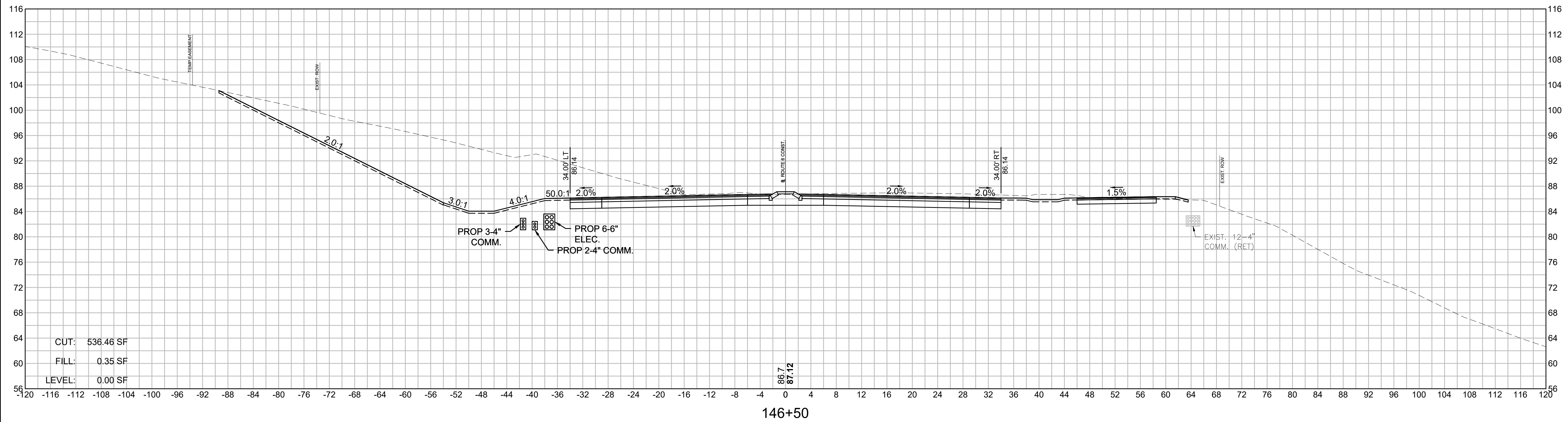




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	233	272
PROJECT FILE NO.		606082	

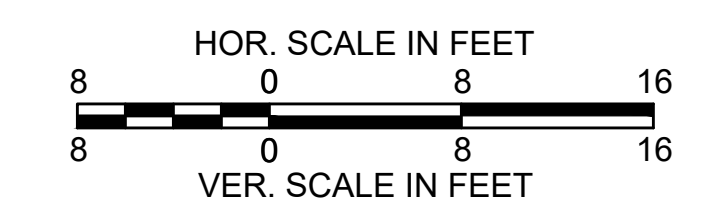
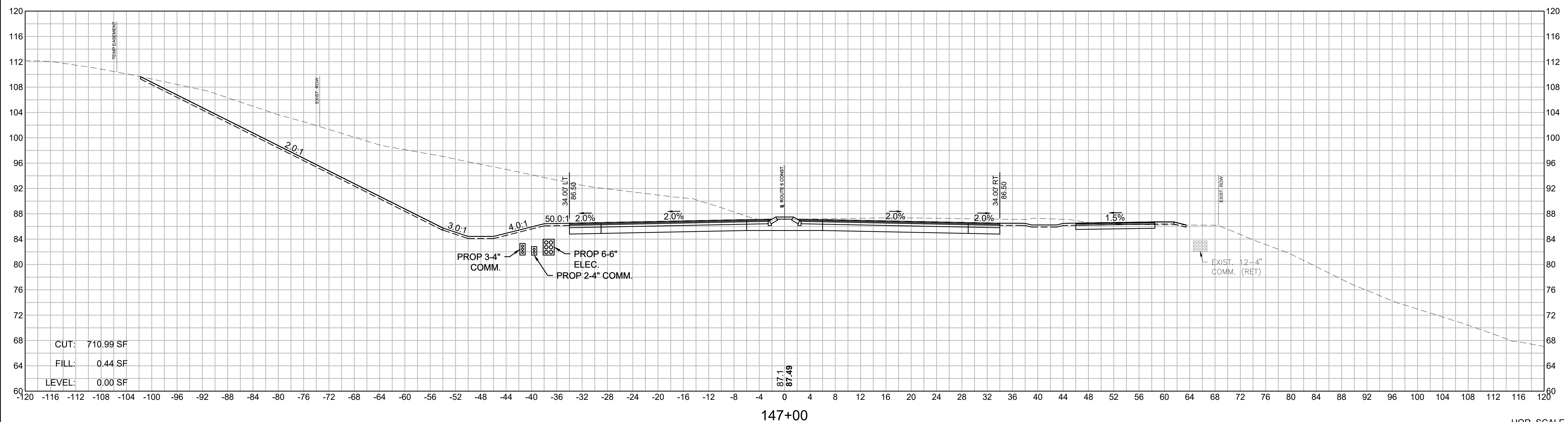
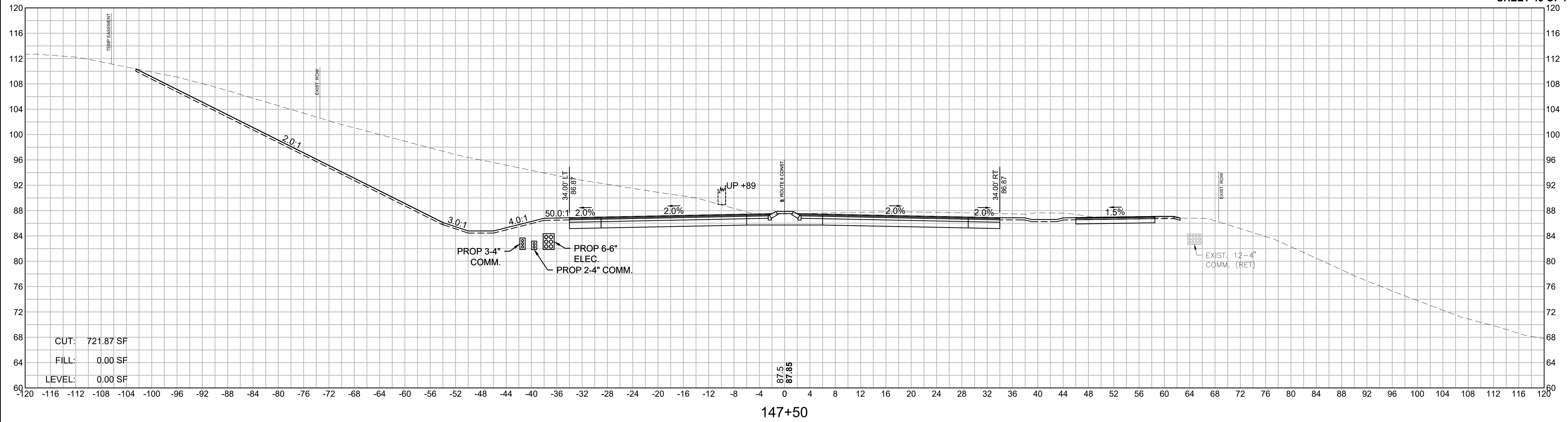
**CROSS SECTIONS - ROUTE 6  
SHEET 42 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	234	272
PROJECT FILE NO.		606082	

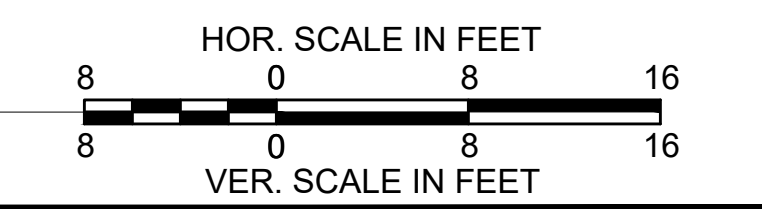
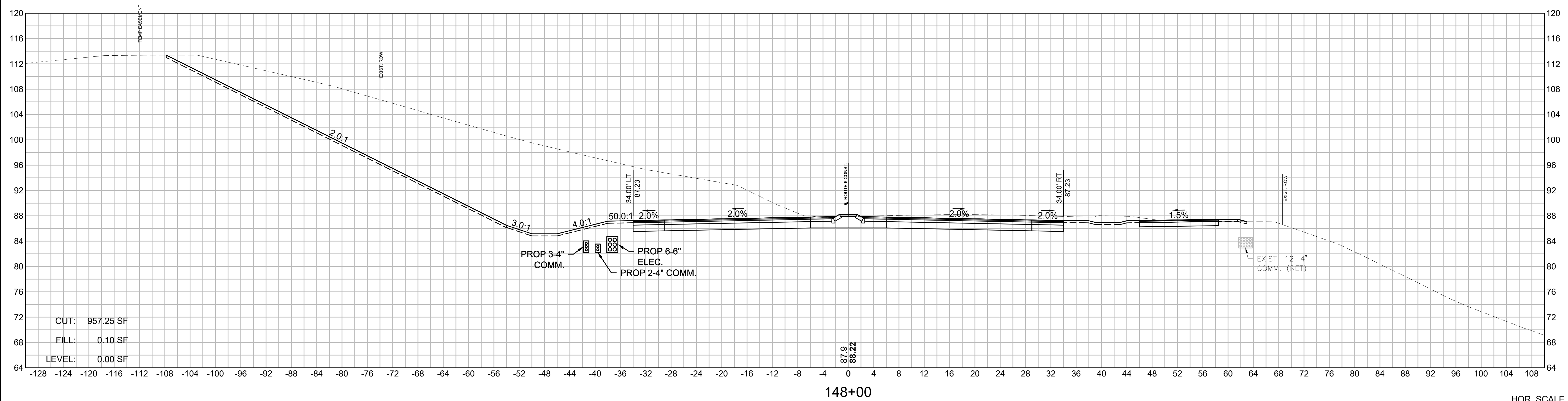
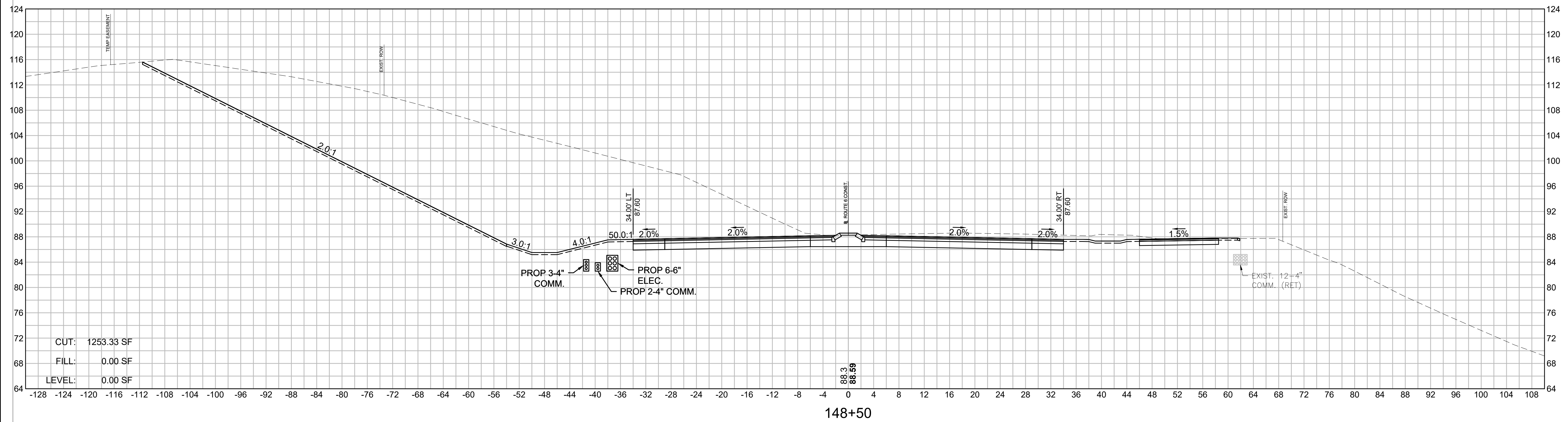
**CROSS SECTIONS - ROUTE 6  
SHEET 43 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	235	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 44 OF 76**

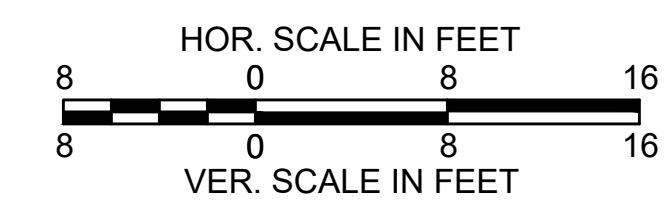
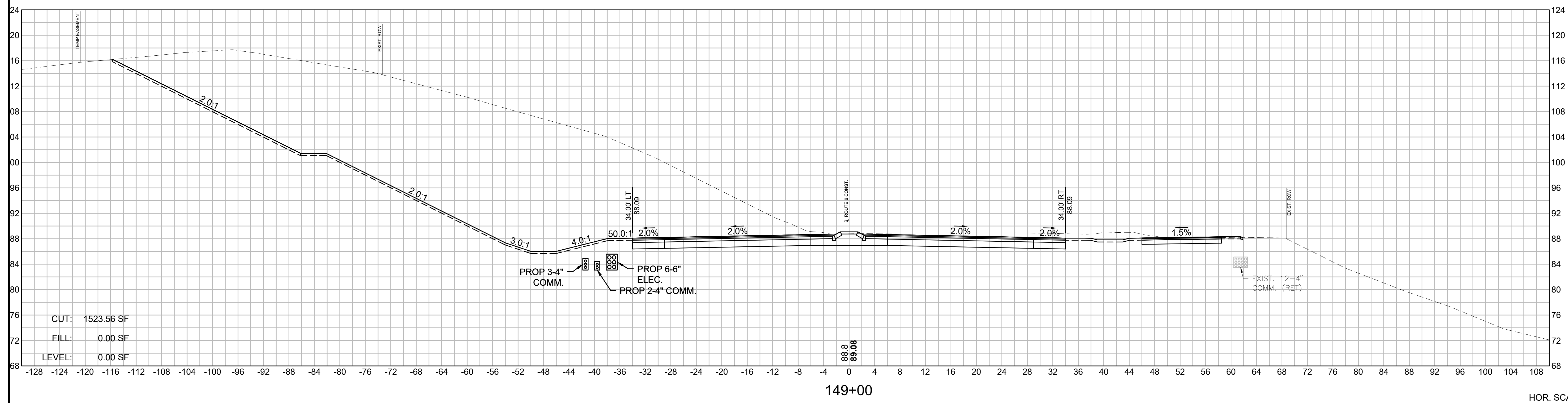
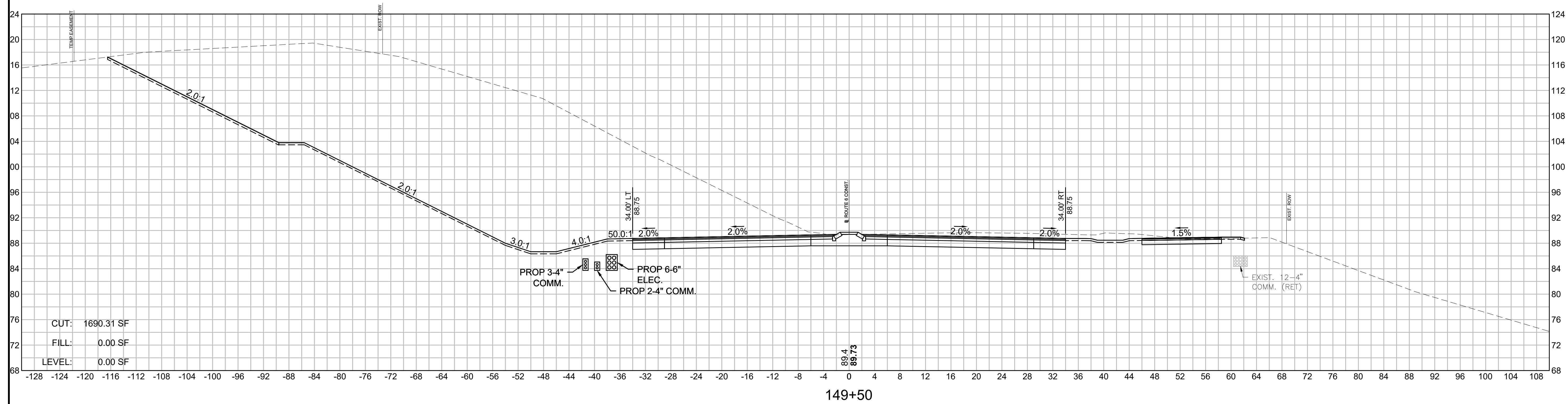




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	236	272
PROJECT FILE NO.		606082	

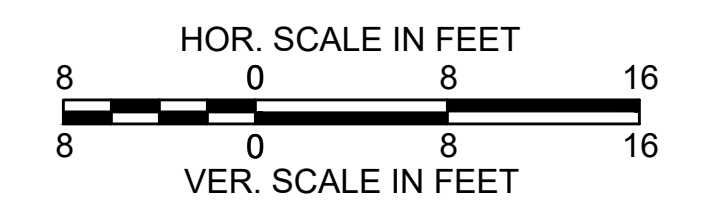
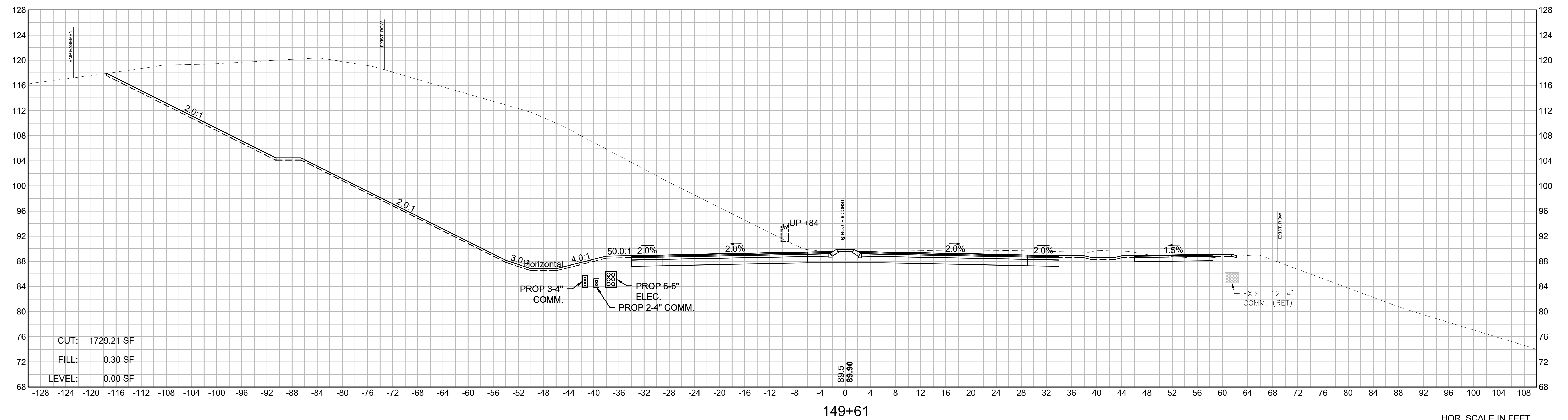
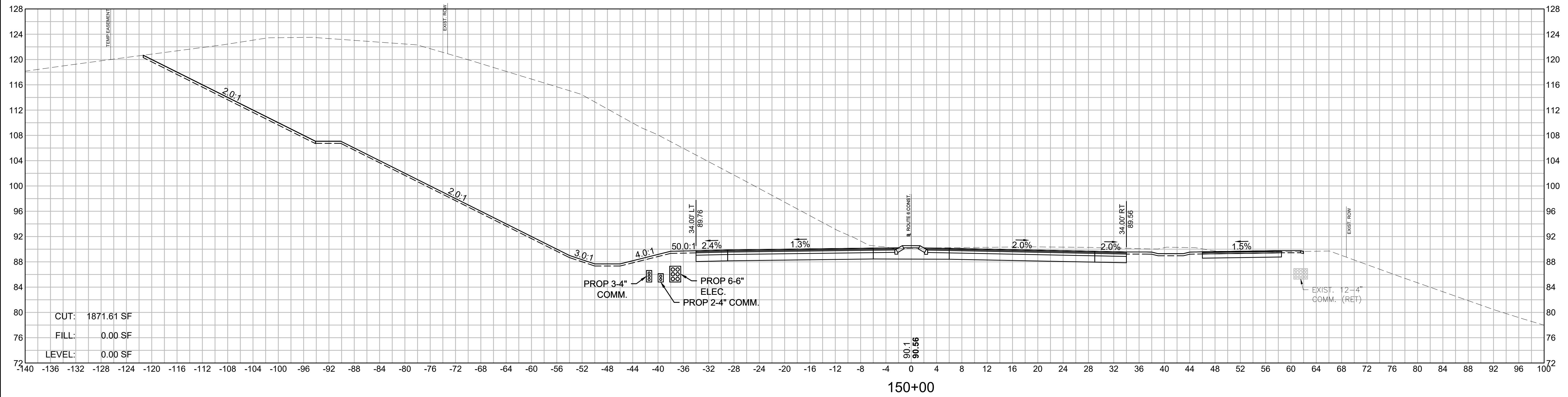
**CROSS SECTIONS - ROUTE 6  
SHEET 45 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	237	272
PROJECT FILE NO.		606082	

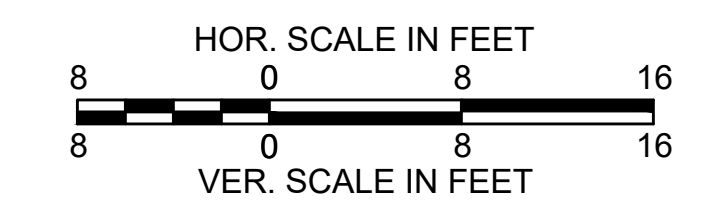
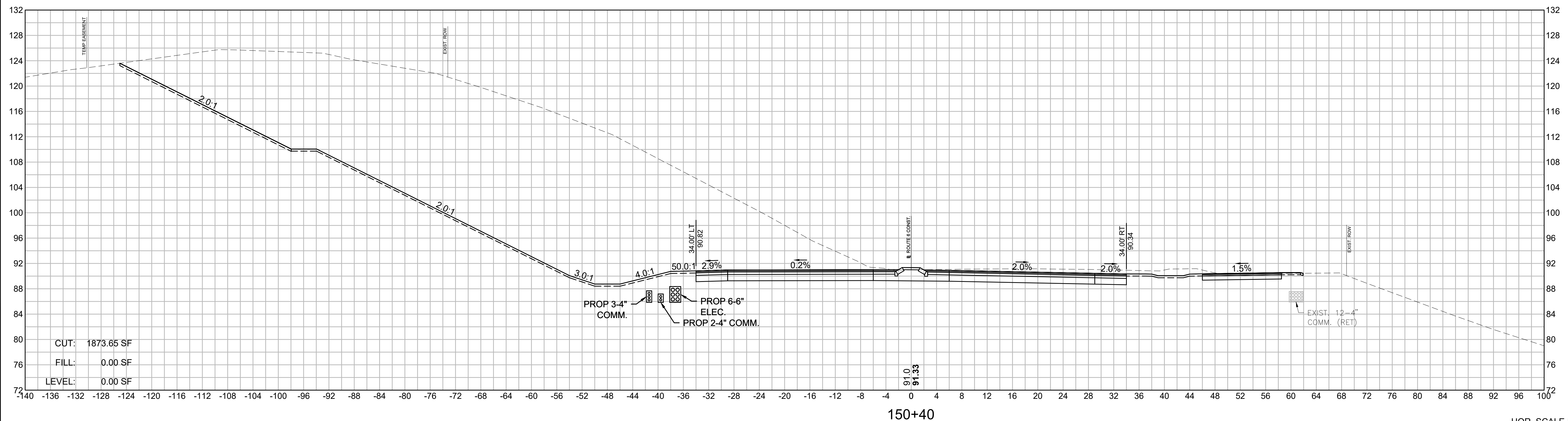
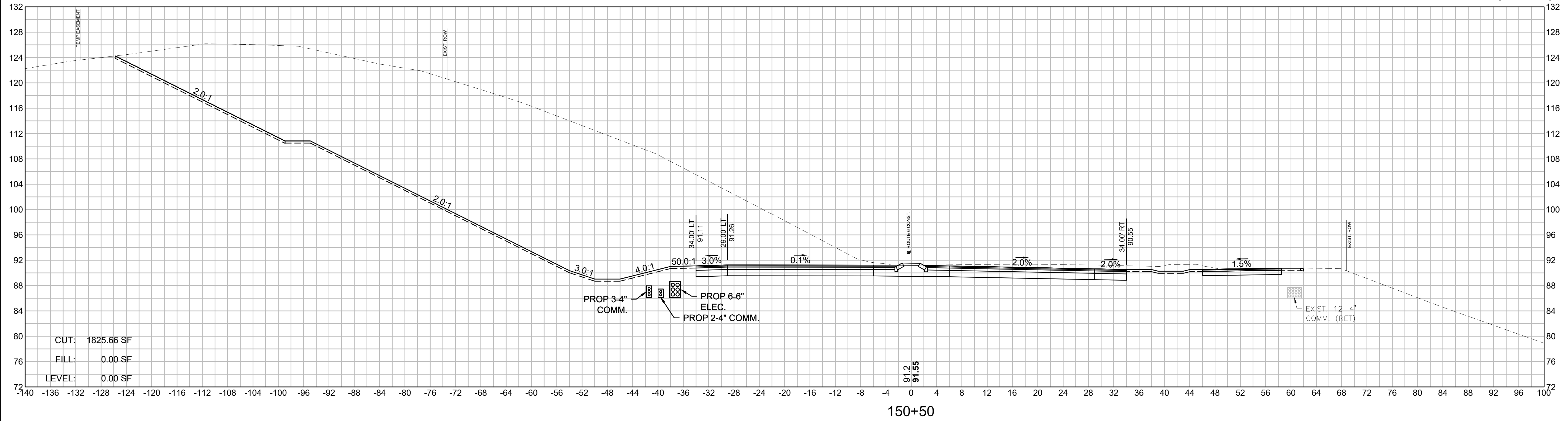
**CROSS SECTIONS - ROUTE 6  
SHEET 46 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	238	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 47 OF 76**

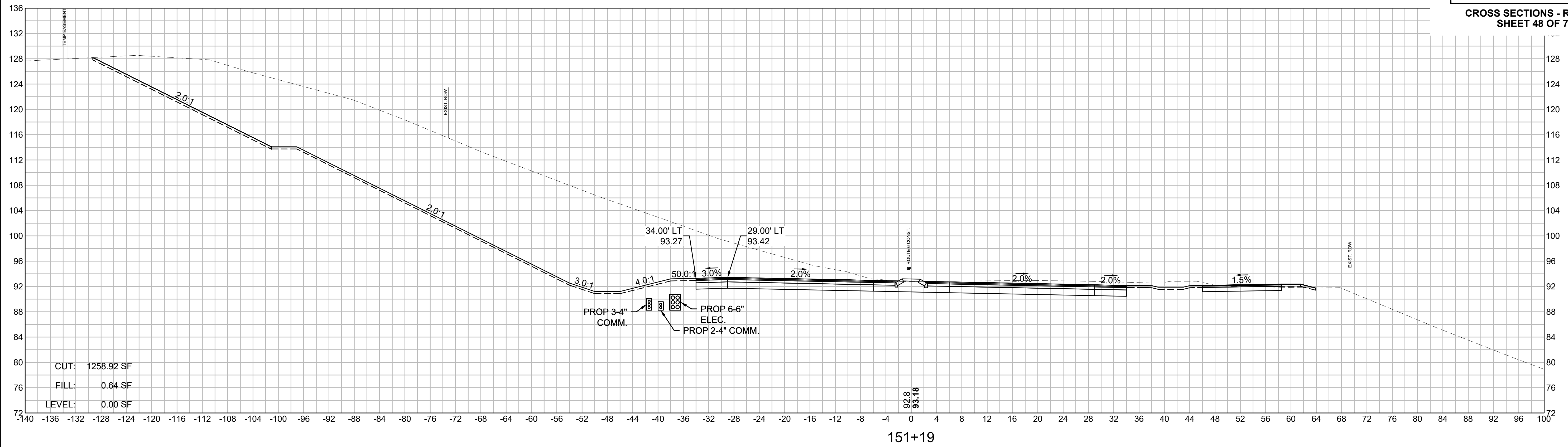




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

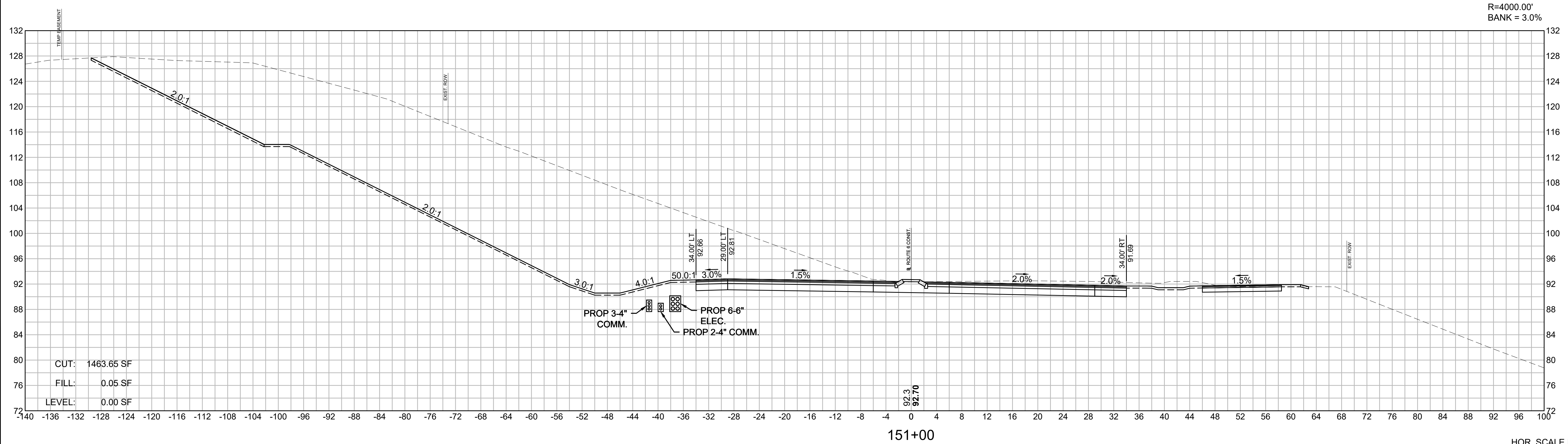
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	239	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 48 OF 76**

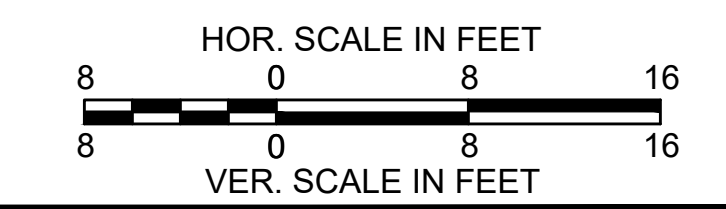


151+19

**SUPERELEVATION:**  
 PC STA 151+23.39  
 PT STA 156+57.70  
 R=4000.00'  
 BANK = 3.0%



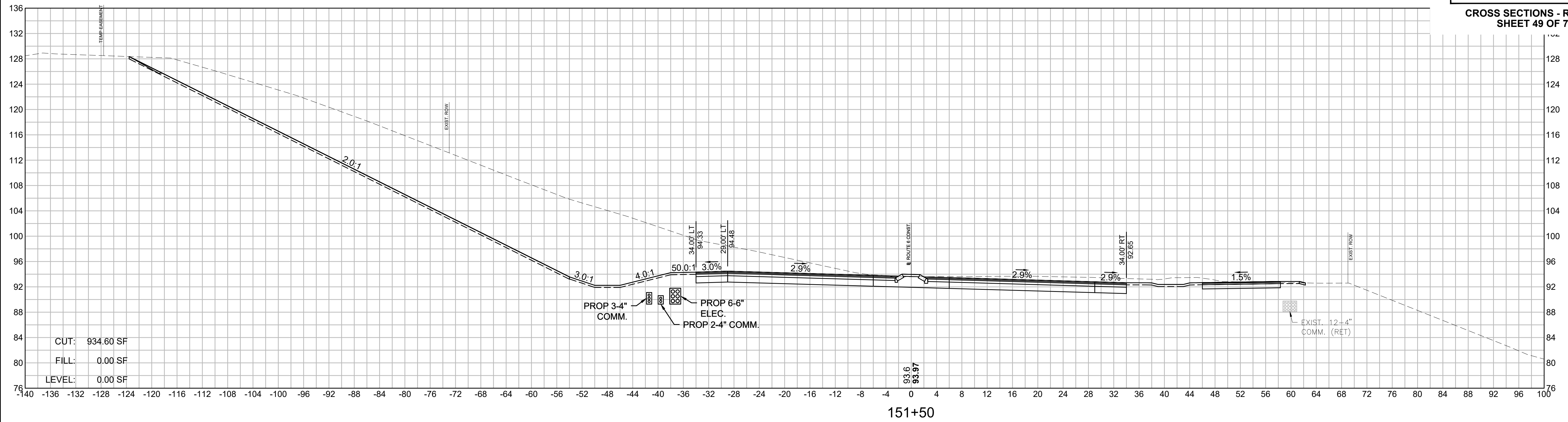
151+00



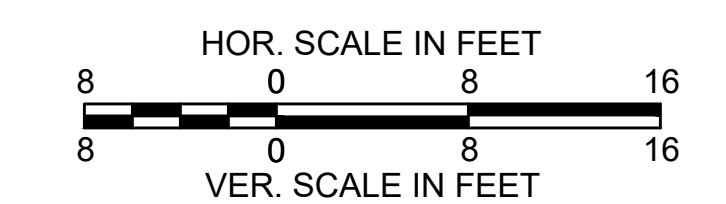
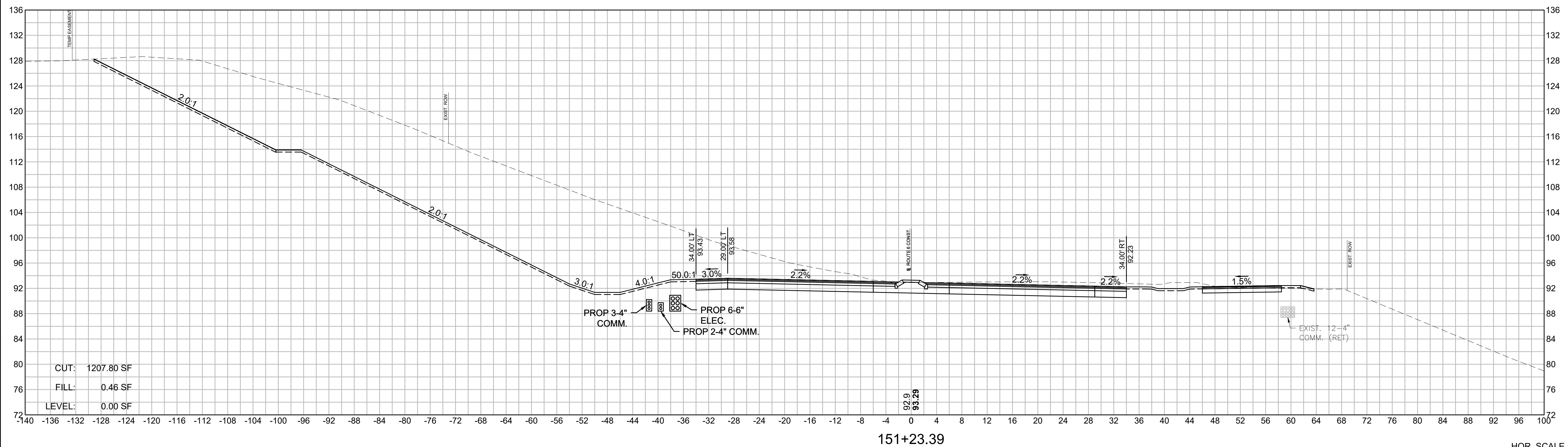
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	240	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 49 OF 76**



**SUPERELEVATION:**  
 PC STA 151+23.39  
 PT STA 156+57.70  
 R=4000.00'  
 BANK = 3.0%

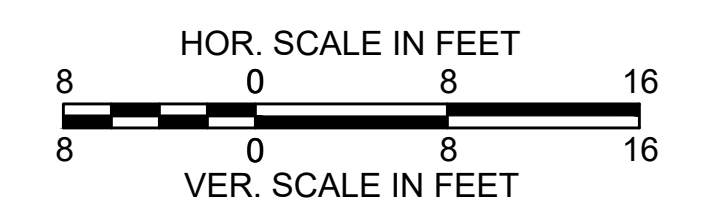
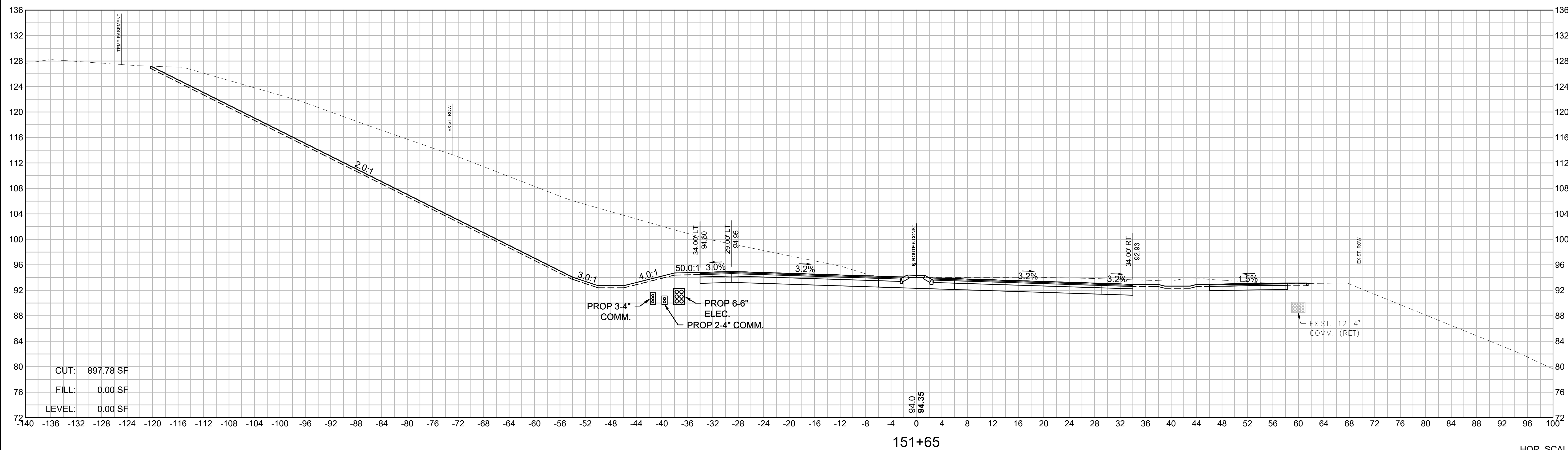
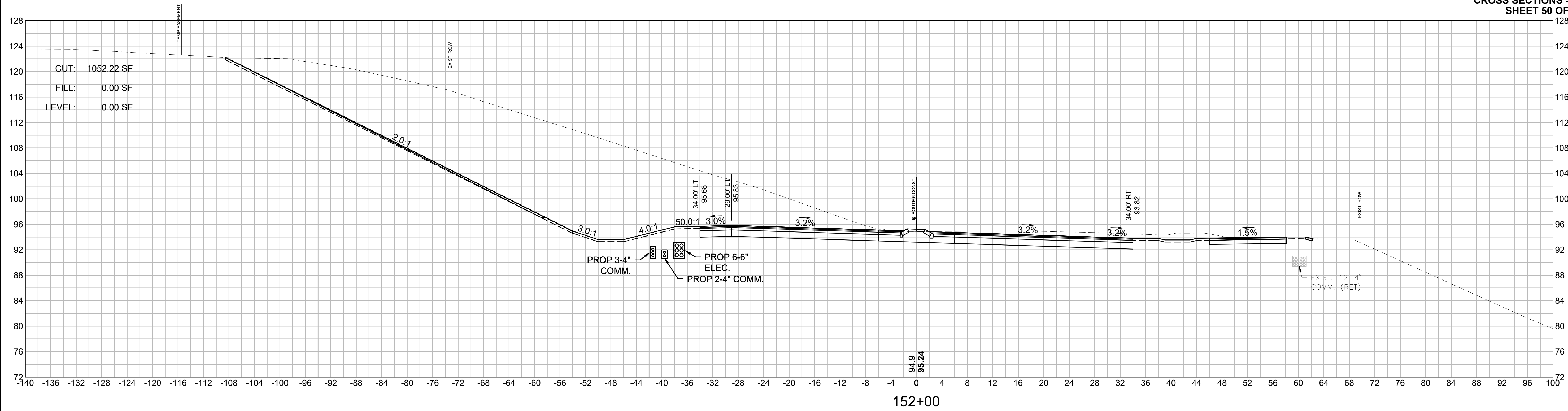


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

**SUPERELEVATION:**  
PC STA 151+23.39  
PT STA 156+57.70  
R=4000.00'  
BANK = 3.0%

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	241	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 50 OF 76**



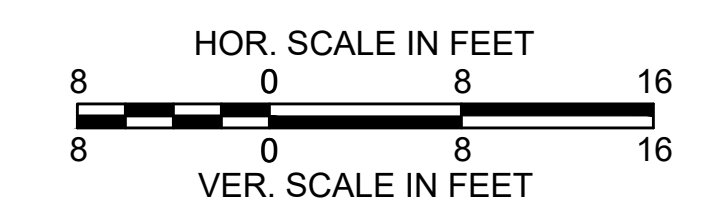
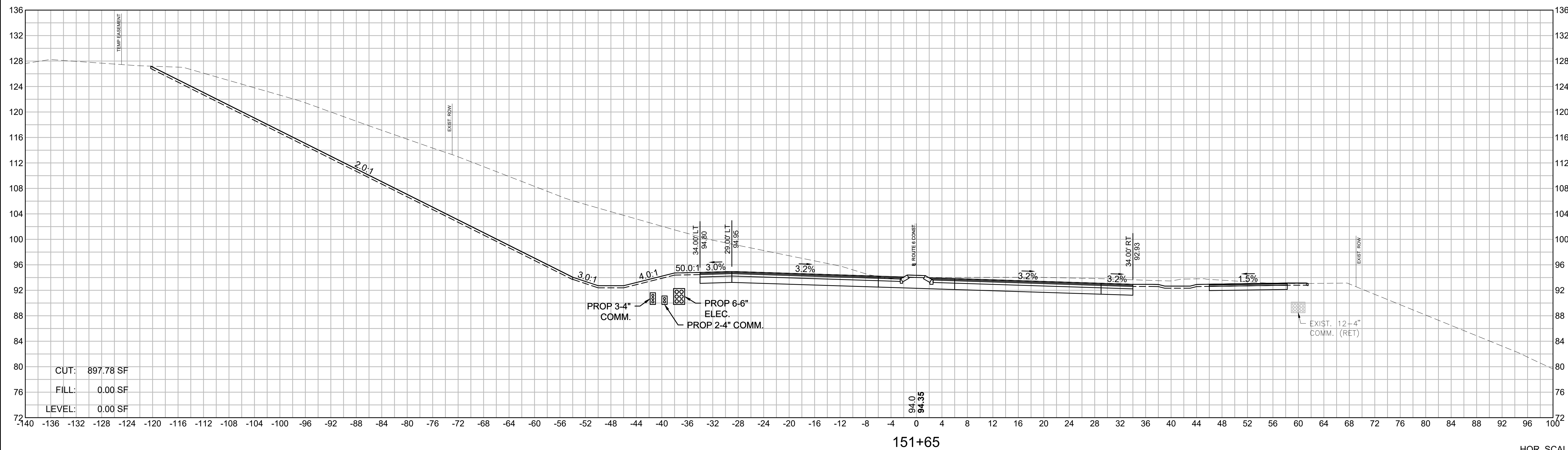
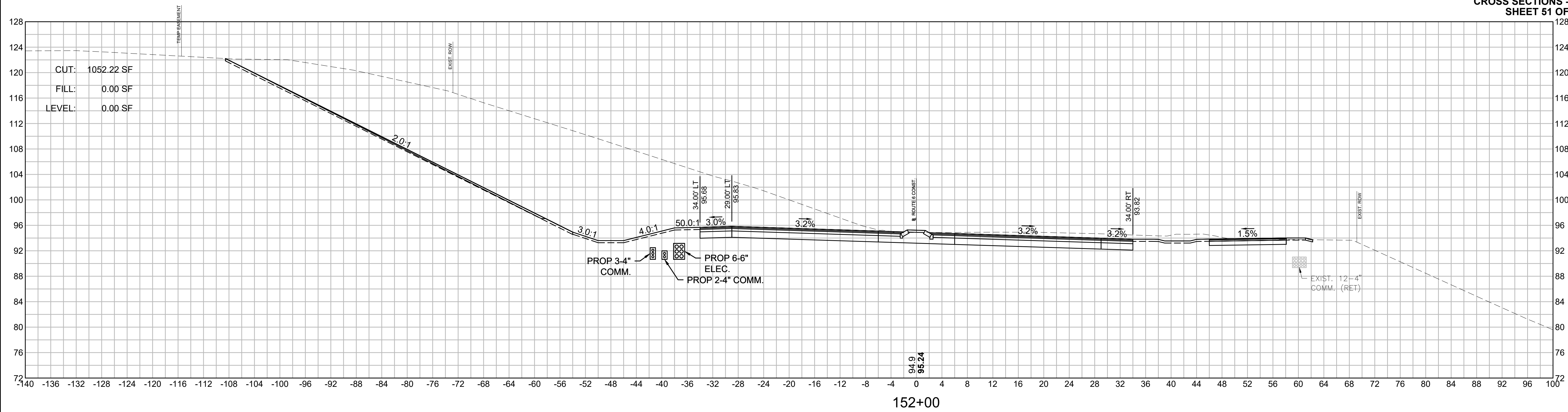


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

**SUPERELEVATION:**  
PC STA 151+23.39  
PT STA 156+57.70  
R=4000.00'  
BANK = 3.0%

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	242	272
PROJECT FILE NO.		606082	

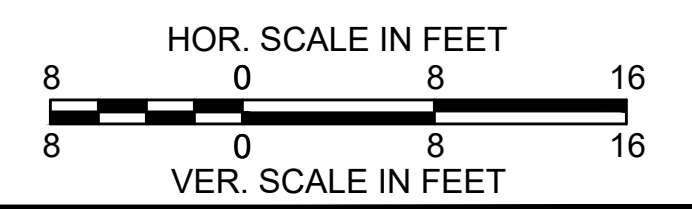
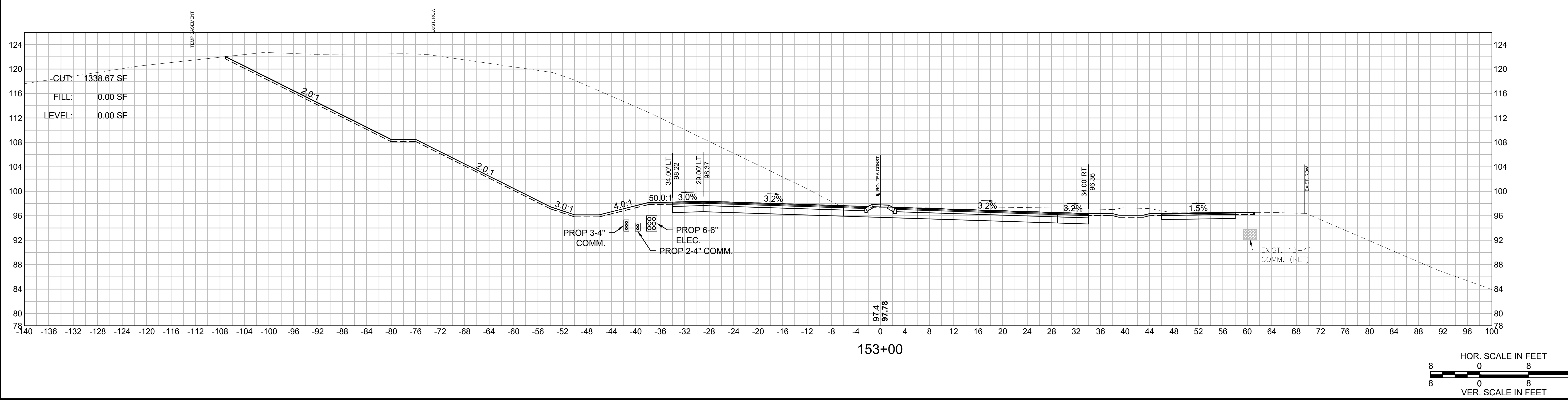
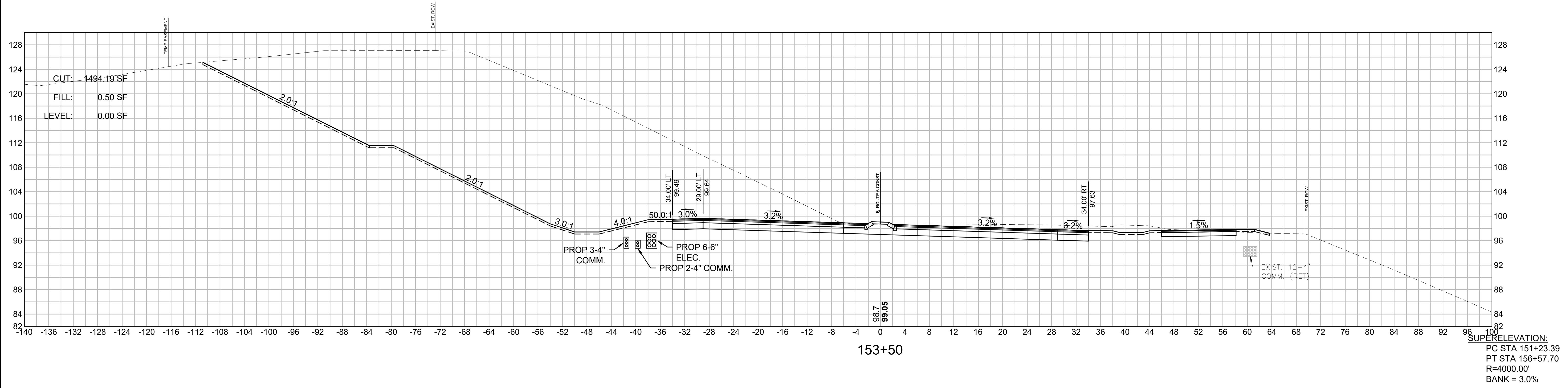
**CROSS SECTIONS - ROUTE 6  
SHEET 51 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	243	272
PROJECT FILE NO.		606082	

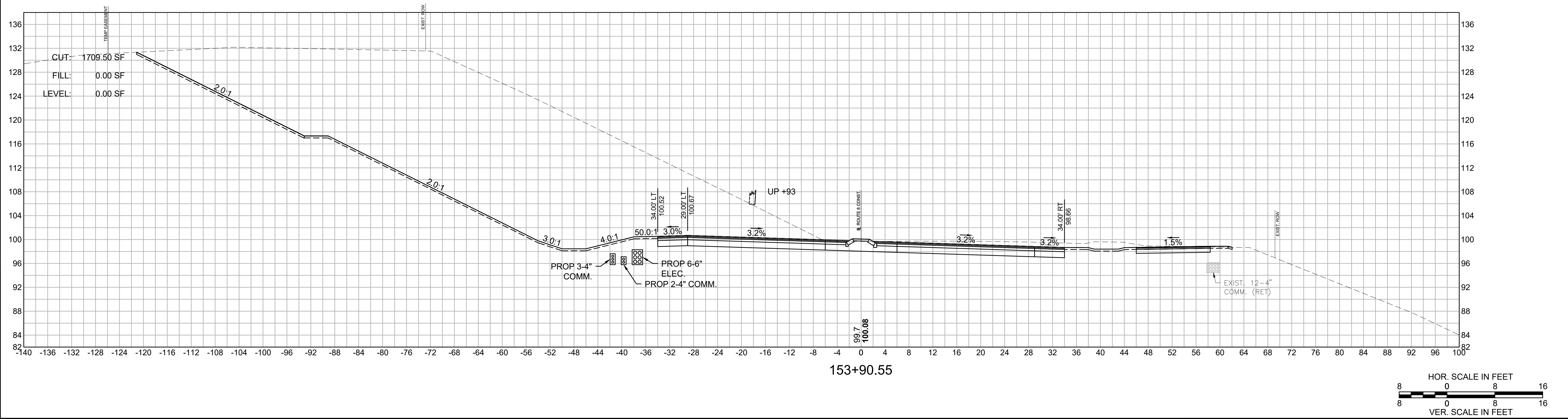
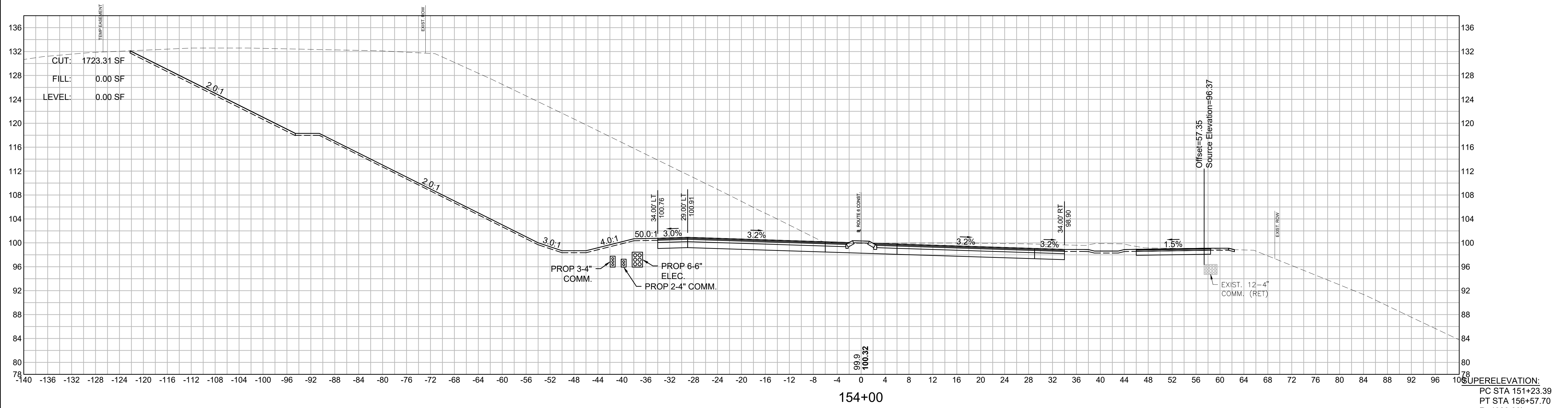
**CROSS SECTIONS - ROUTE 6  
SHEET 52 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	244	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 53 OF 76**

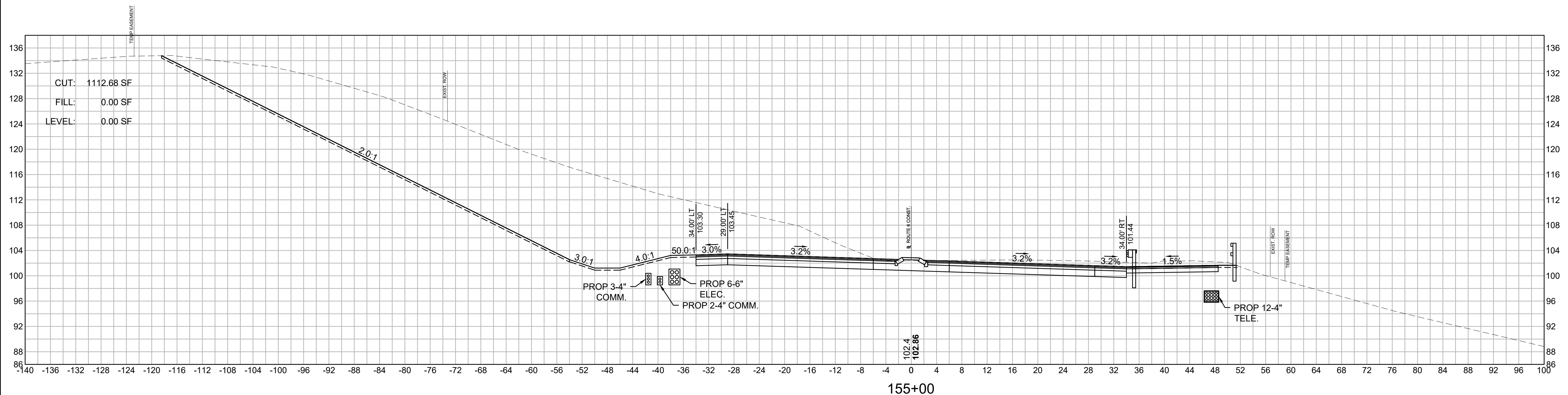




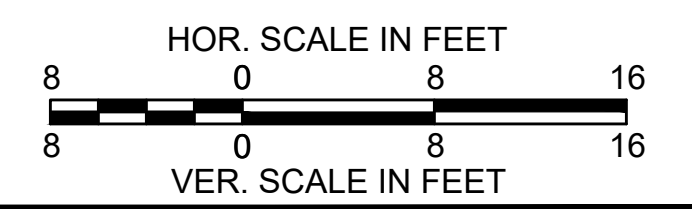
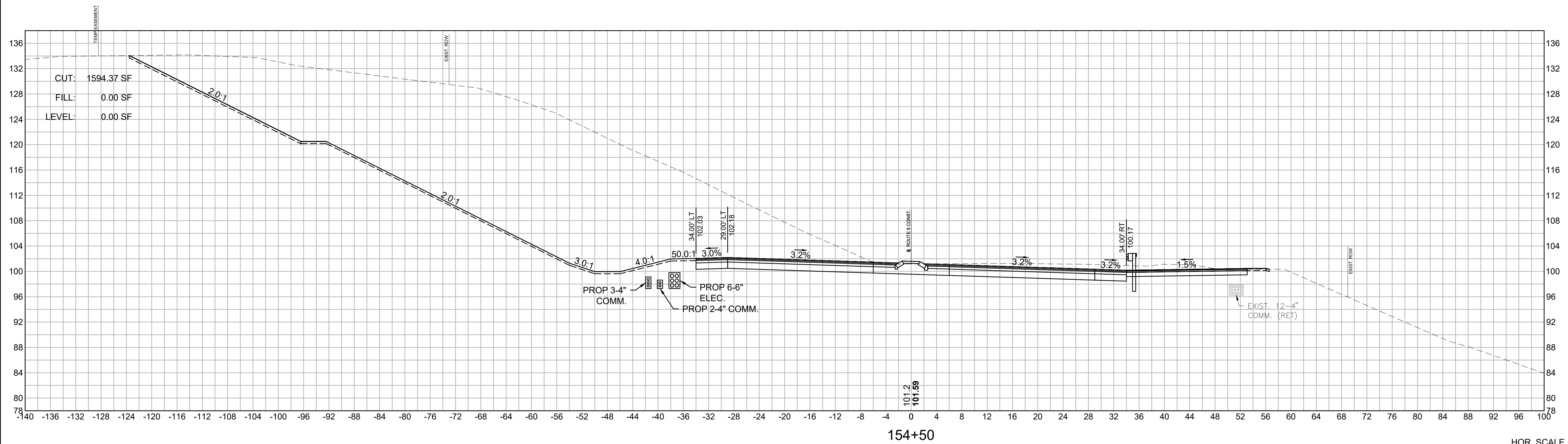
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	245	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 54 OF 76**



**SUPERELEVATION:**  
 PC STA 151+23.39  
 PT STA 156+57.70  
 R=4000.00'  
 BANK = 3.0%

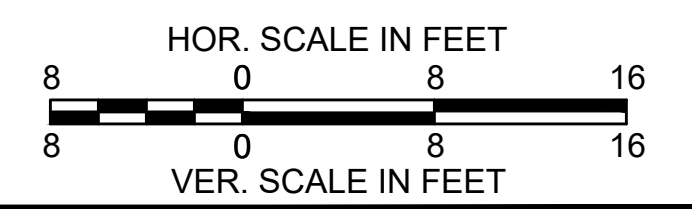
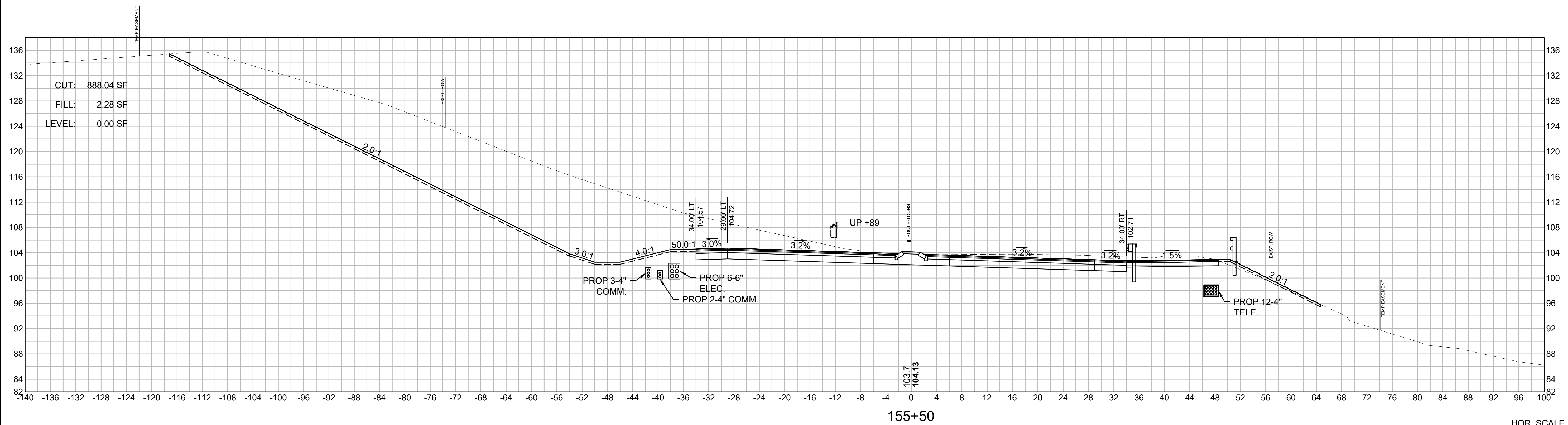
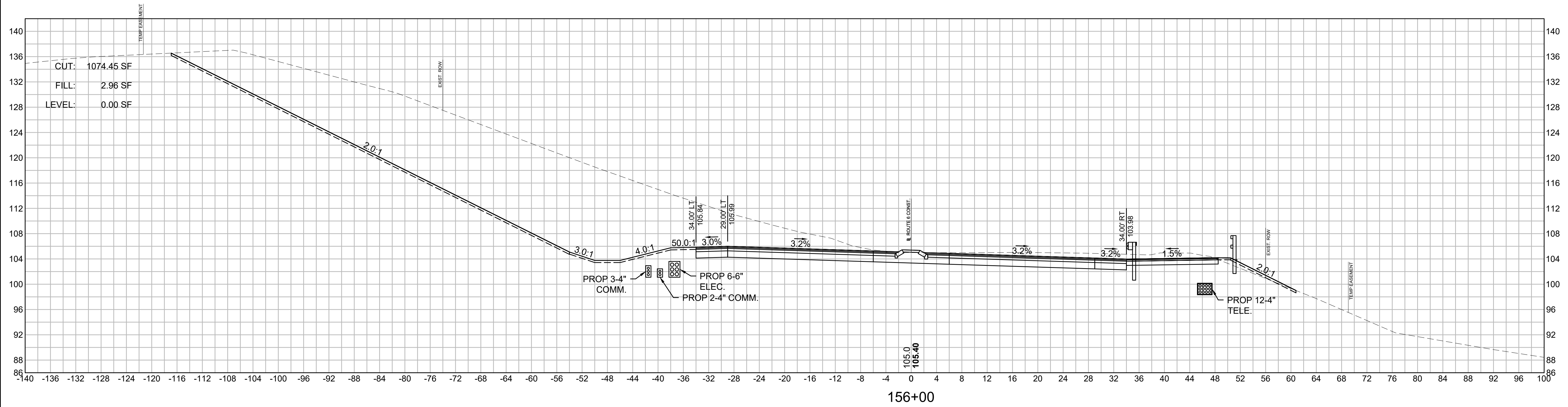


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	246	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 55 OF 76**

**SUPERELEVATION:**  
PC STA 151+23.39  
PT STA 156+57.70  
R=4000.00'  
BANK = 3.0%

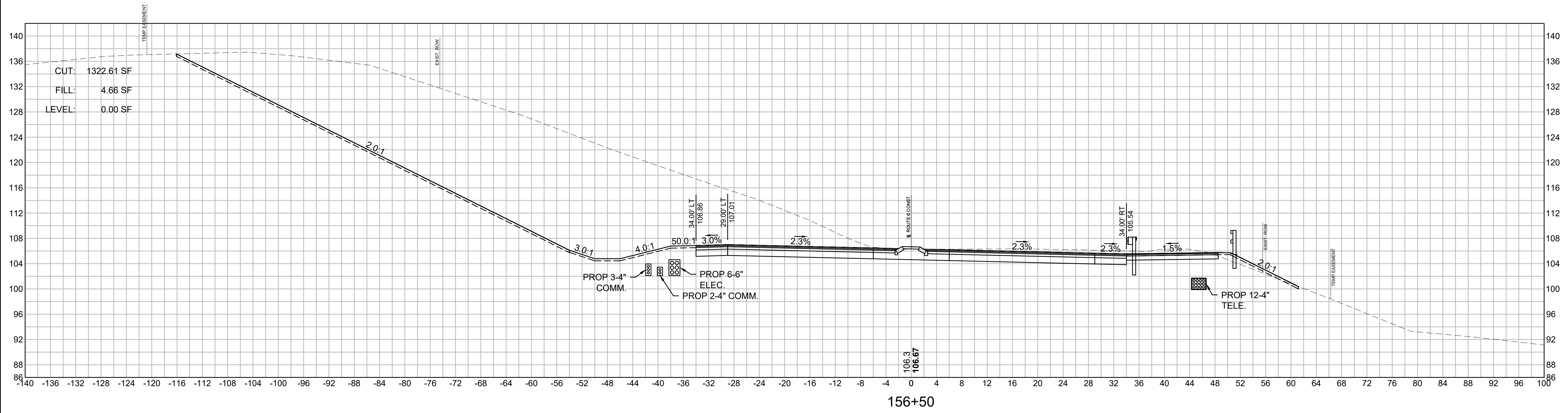


**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

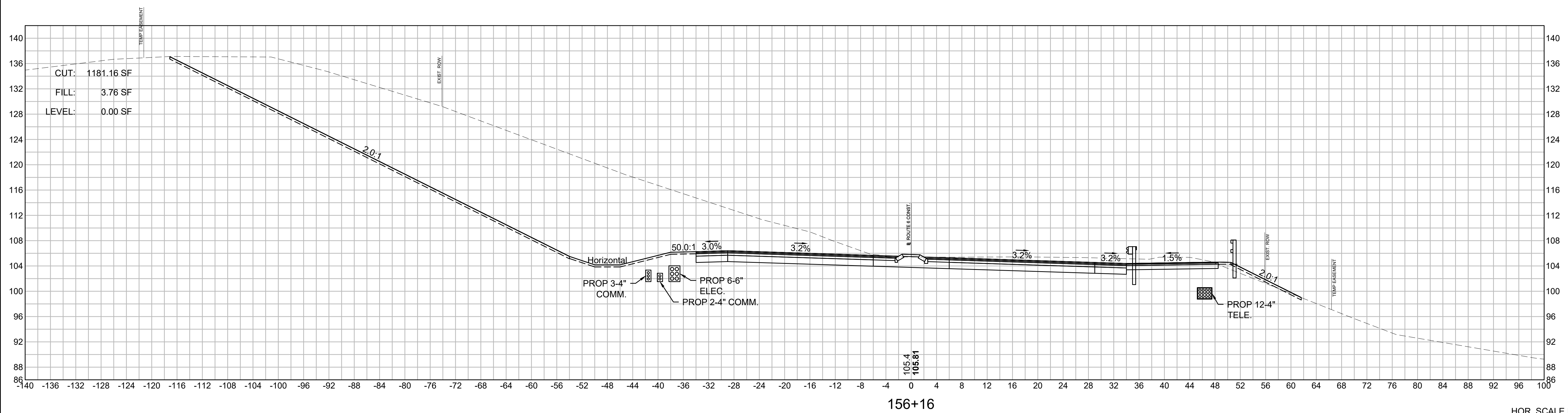
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	247	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 56 OF 76**

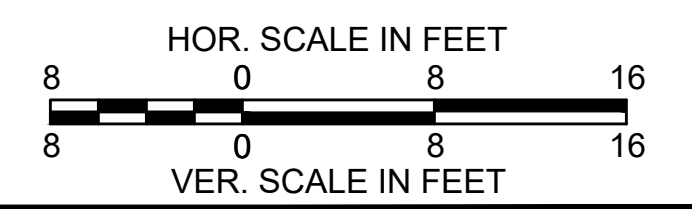
**SUPERELEVATION:**  
PC STA 151+23.39  
PT STA 156+57.70  
R=4000.00'  
BANK = 3.0%



156+50



156+16

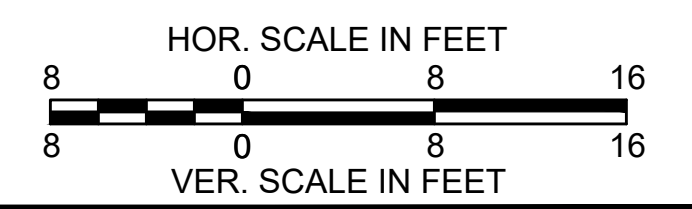
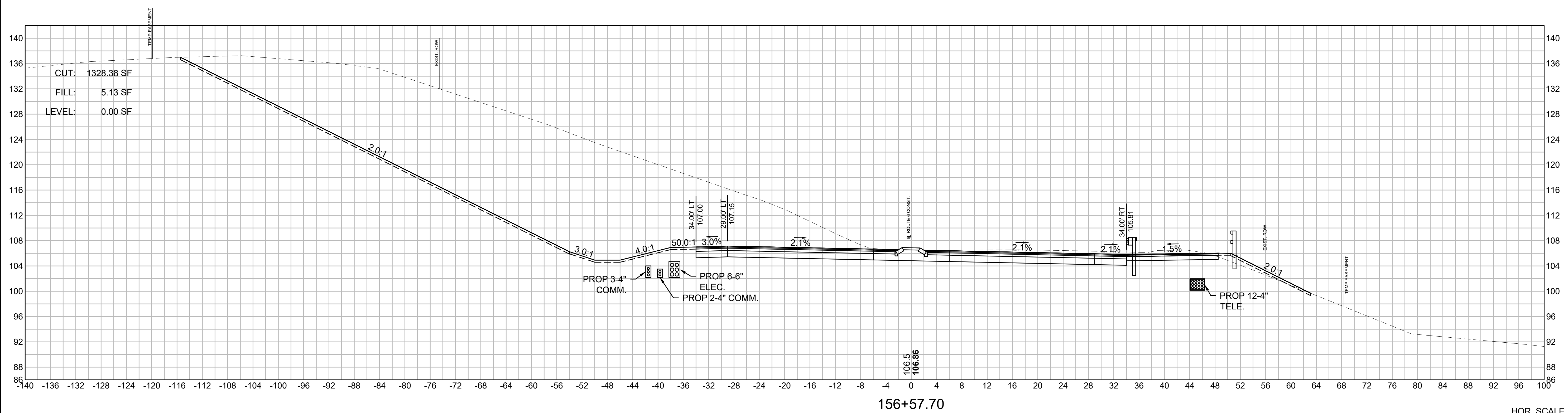
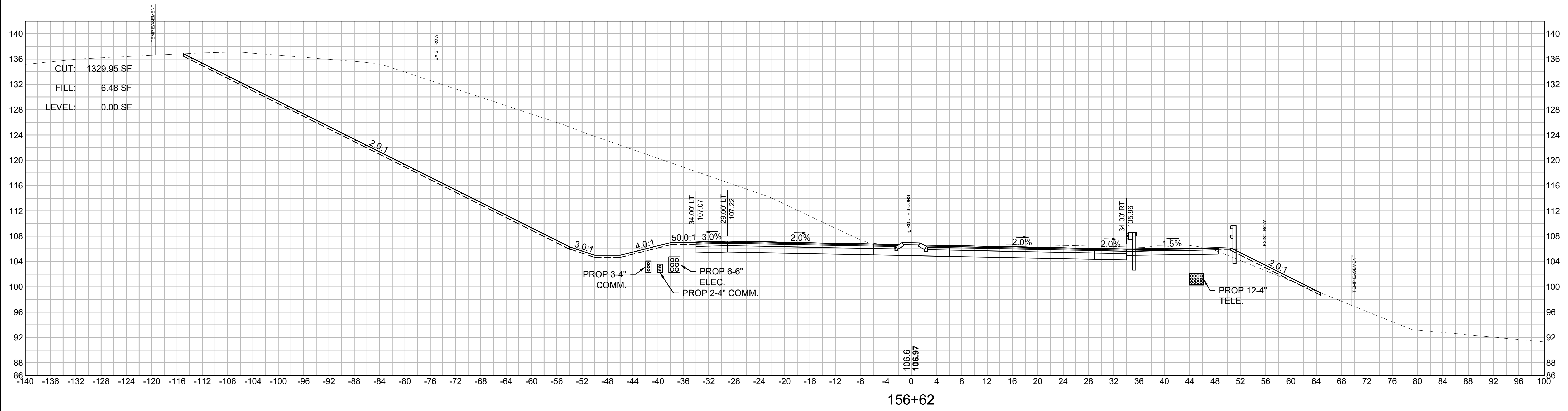




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	248	272
PROJECT FILE NO.		606082	

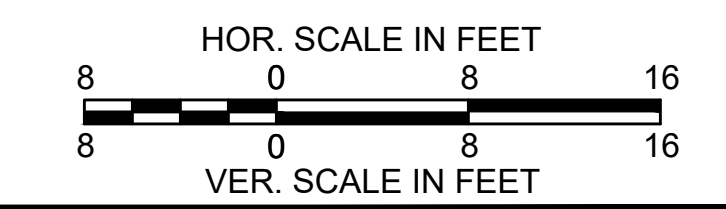
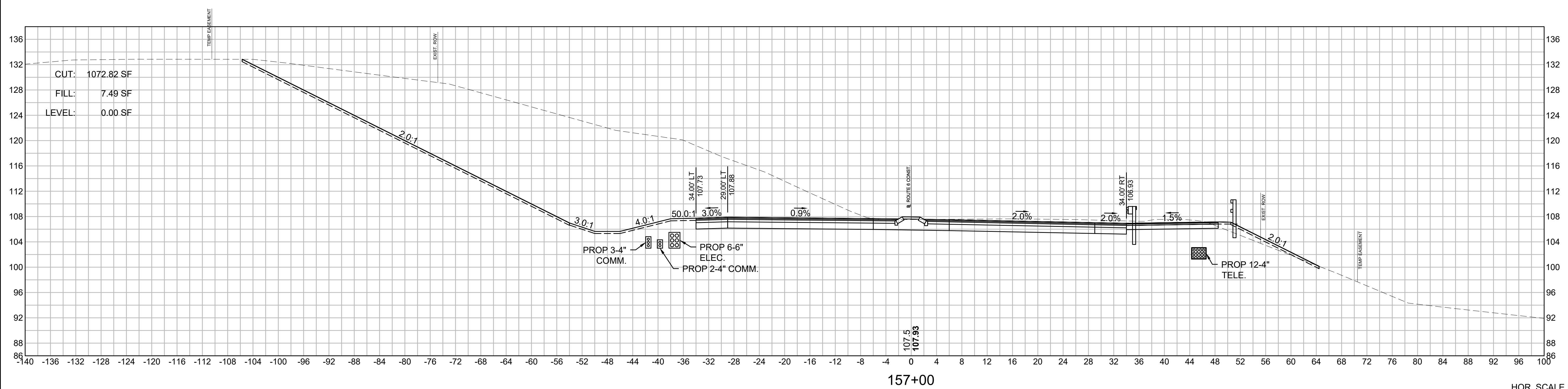
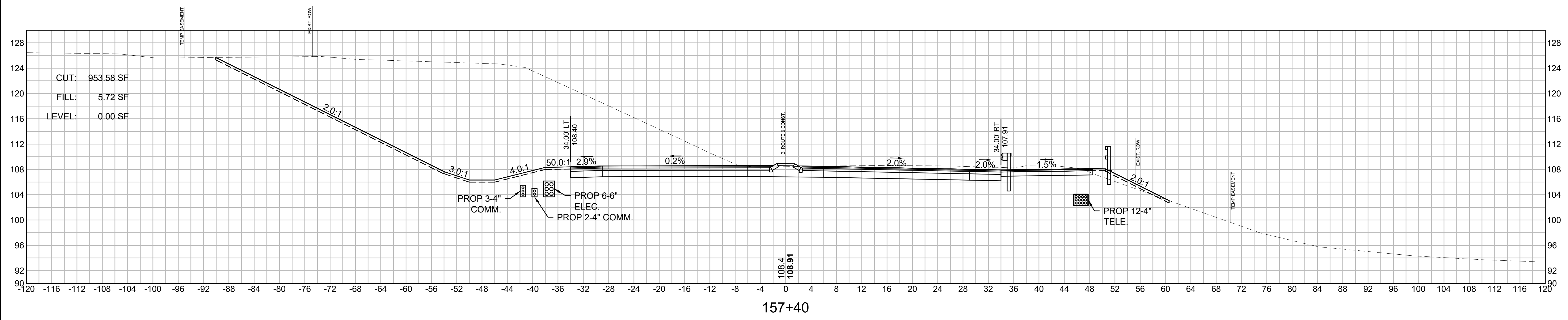
**CROSS SECTIONS - ROUTE 6  
SHEET 57 OF 76**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	249	272
PROJECT FILE NO.		606082	

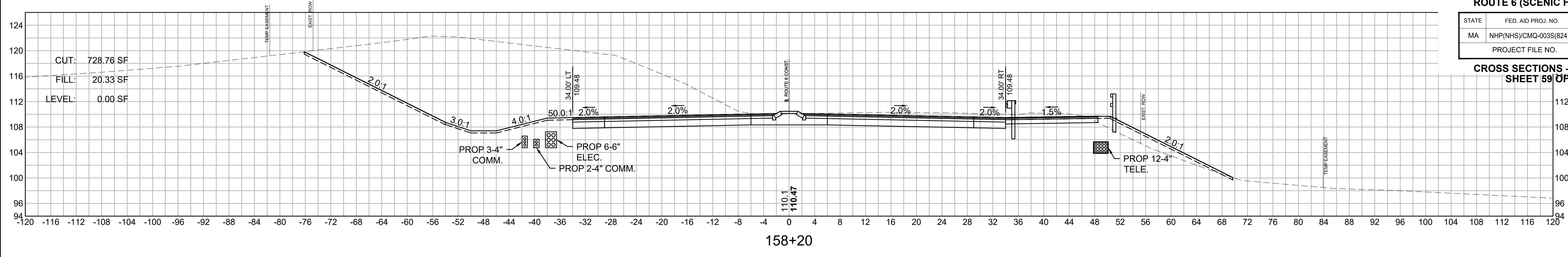
**CROSS SECTIONS - ROUTE 6  
SHEET 58 OF 76**



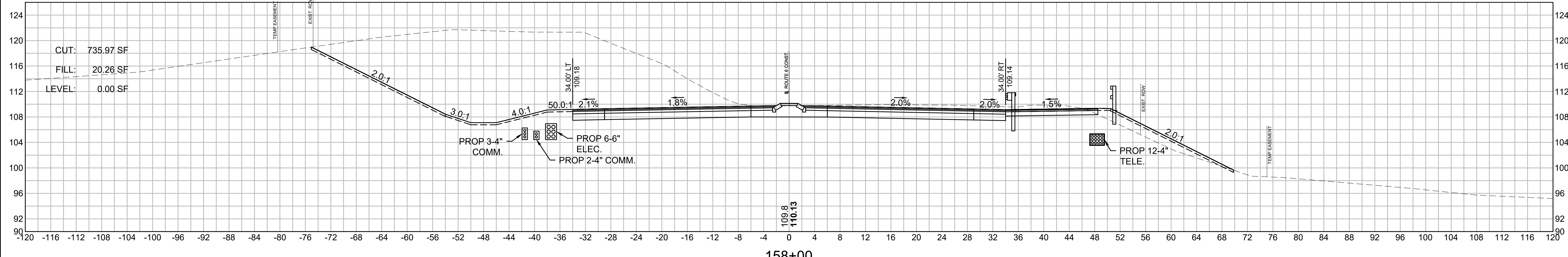
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	250	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 59 OF 76**

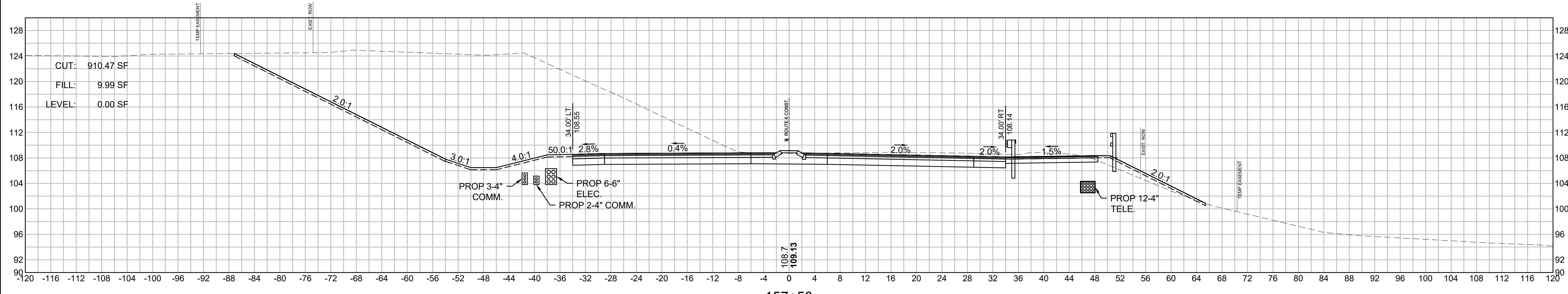


158+20

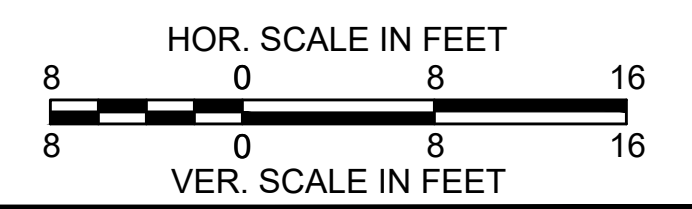


158+00

**SUPERELEVATION:**  
PC STA 151+23.39  
PT STA 156+57.70  
R=4000.00'  
BANK = 3.0%



157+50

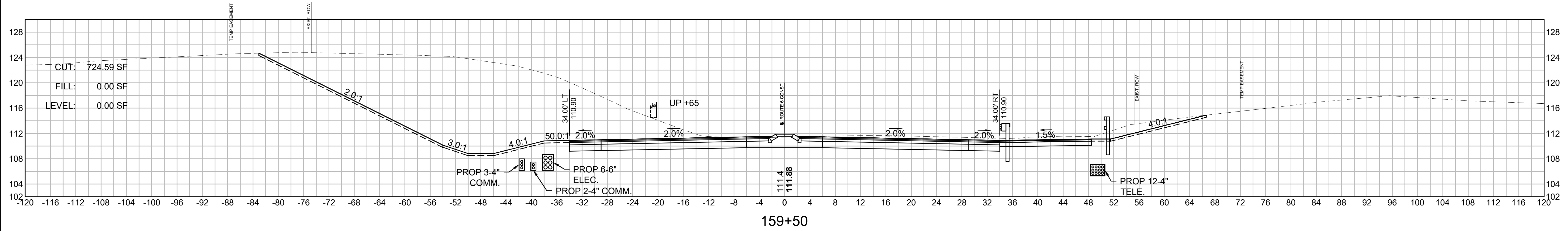




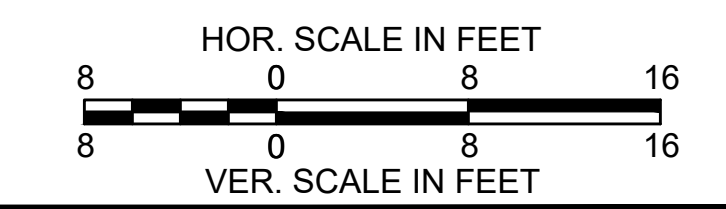
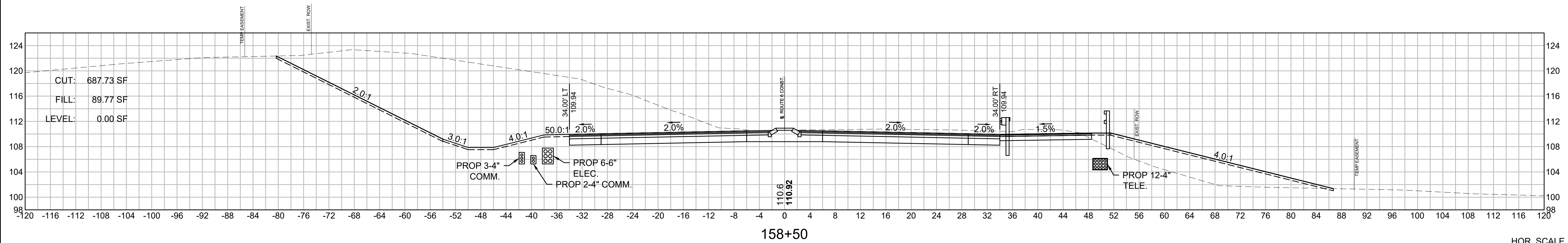
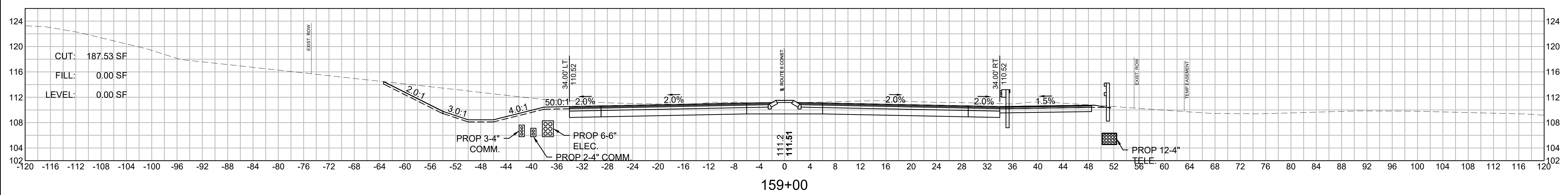
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	251	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 60 OF 76**



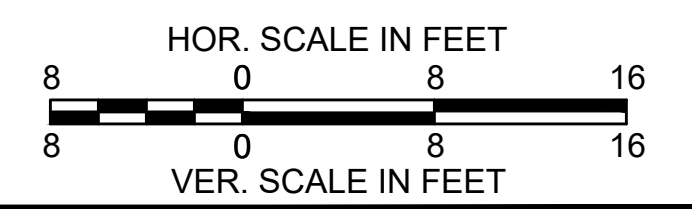
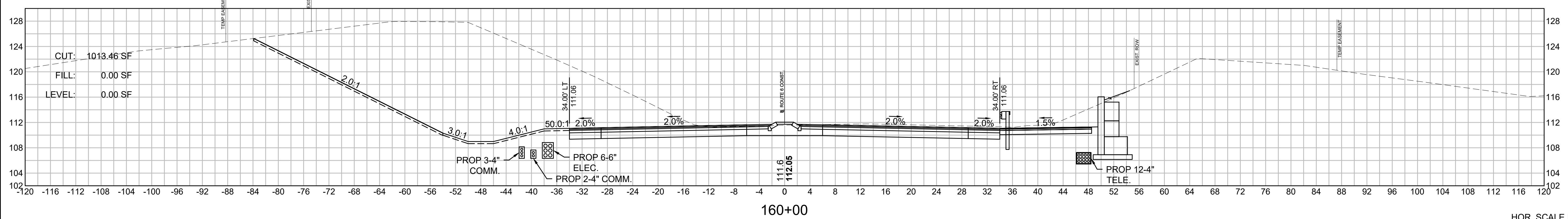
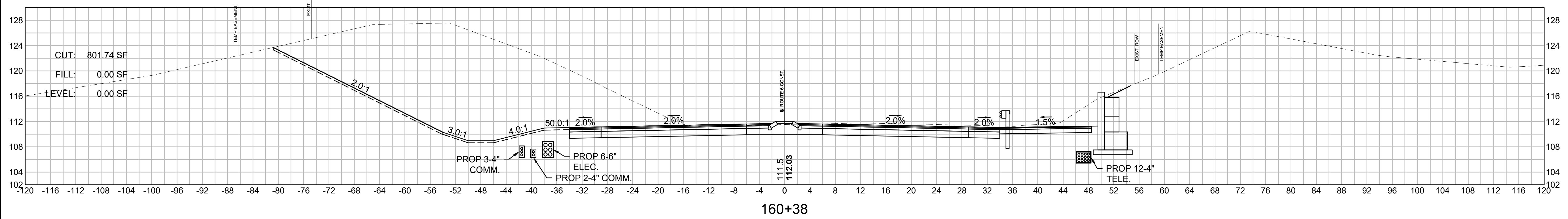
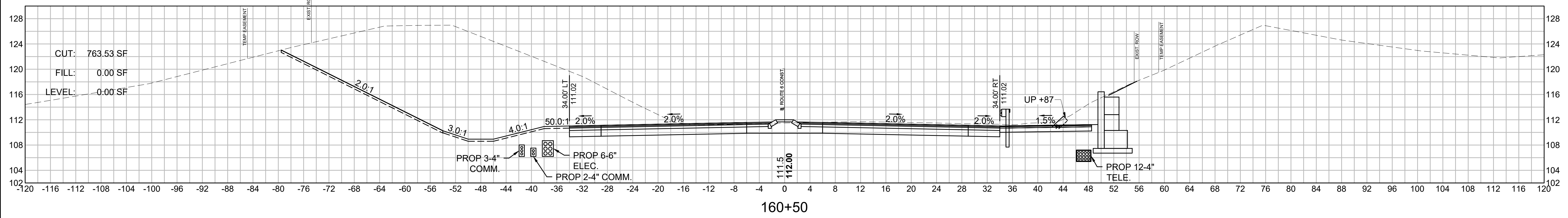
**SUPERELEVATION:**  
 PC STA 151+23.39  
 PT STA 156+57.70  
 R=4000.00'  
 BANK = 3.0%



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	252	272
PROJECT FILE NO.		606082	

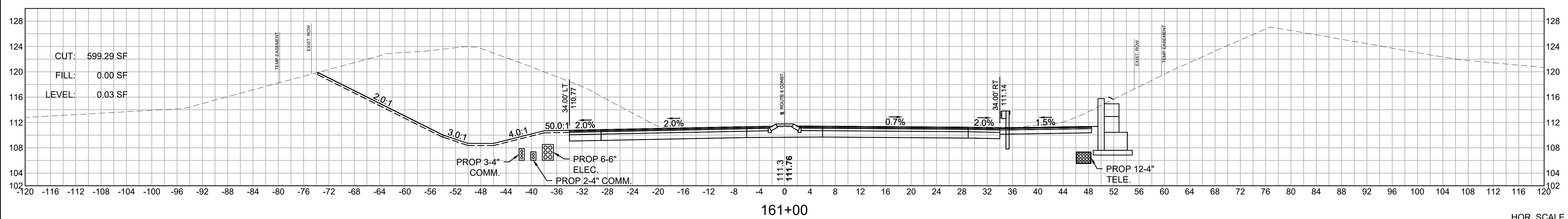
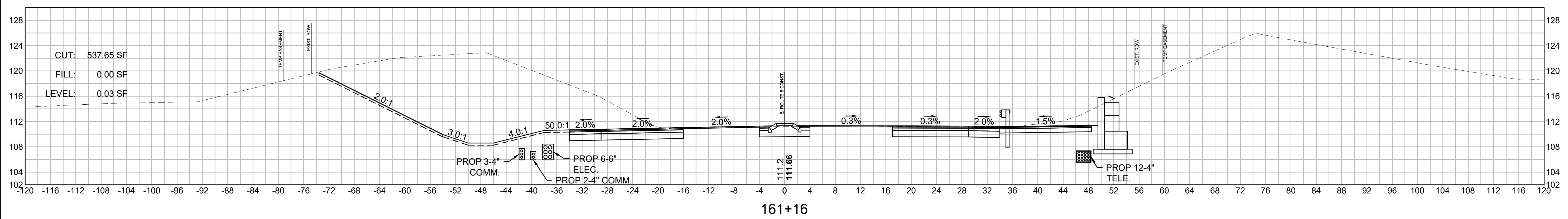
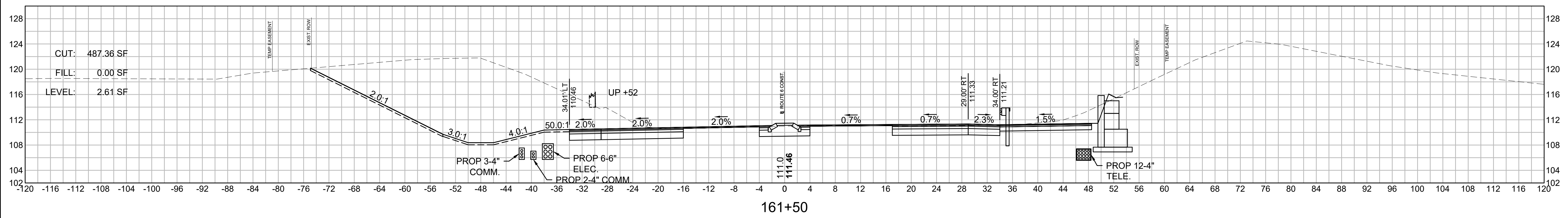
**CROSS SECTIONS - ROUTE 6  
SHEET 61 OF 76**



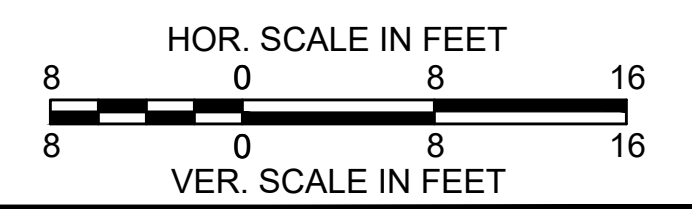
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	253	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 62 OF 76**



**SUPERELEVATION:**  
PC STA 162+20.38  
PT STA 173+98.24  
R=3000.00'  
BANK = 4.0%

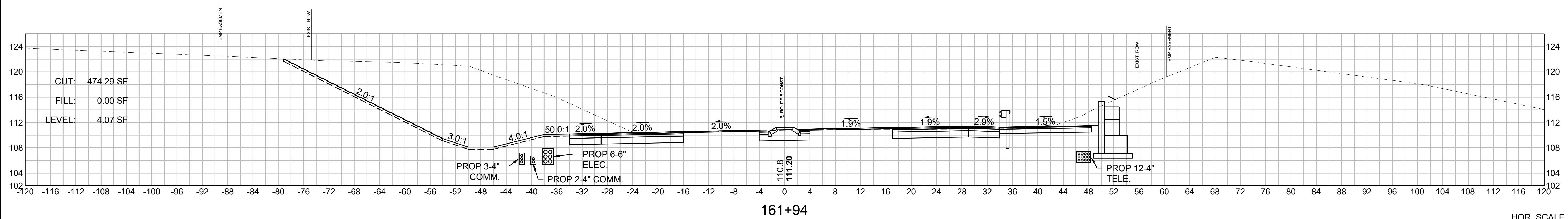
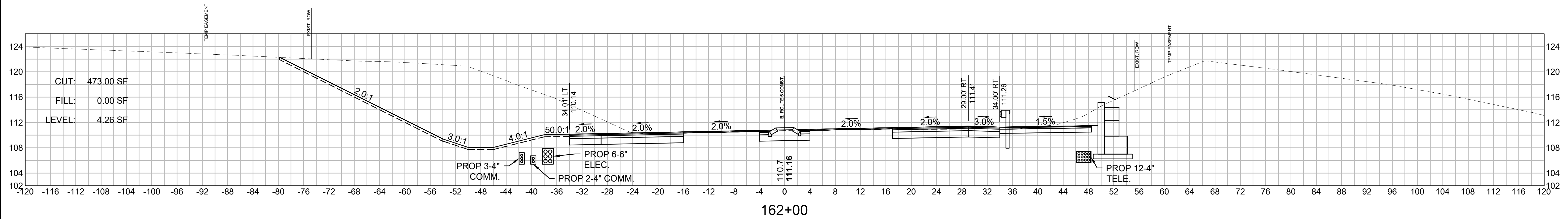
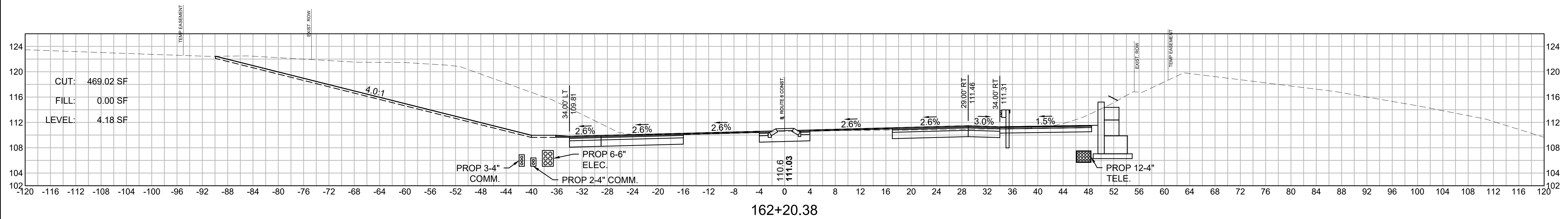




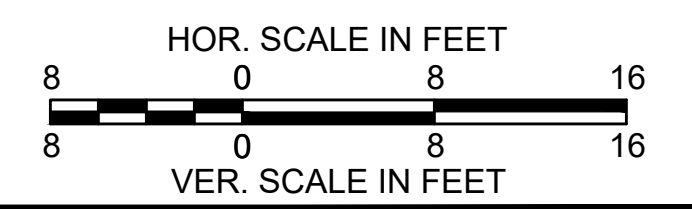
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	254	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 63 OF 76**



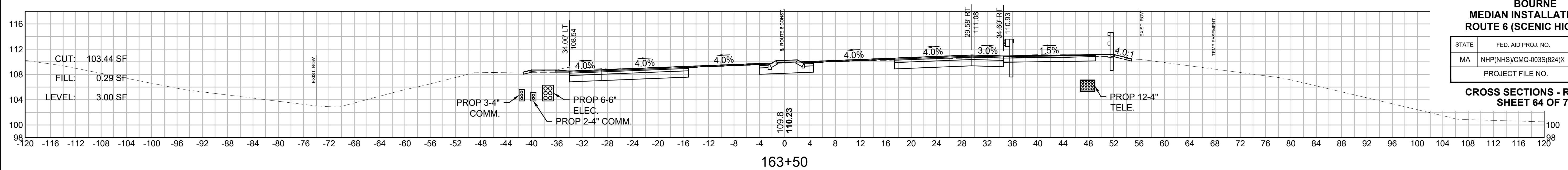
**SUPERELEVATION:**  
PC STA 162+20.38  
PT STA 173+98.24  
R=3000.00  
BANK = 4.0%



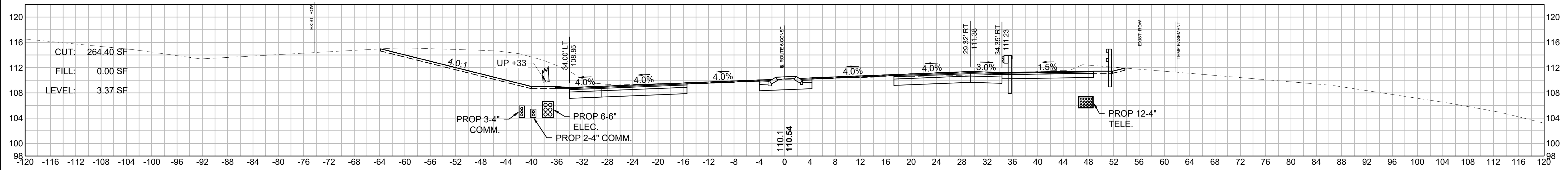
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	255	272
PROJECT FILE NO.		606082	

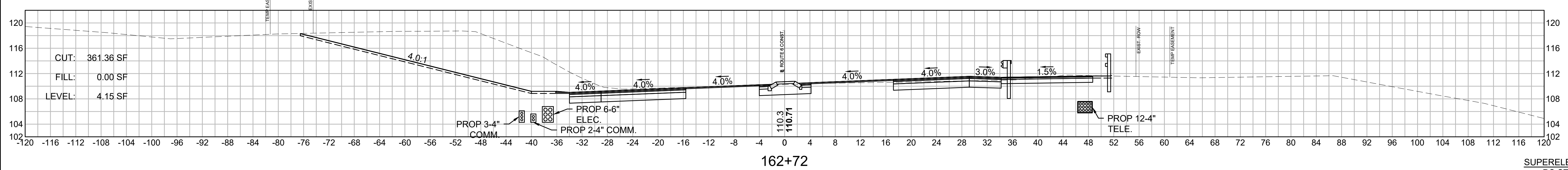
**CROSS SECTIONS - ROUTE 6  
SHEET 64 OF 76**



163+50

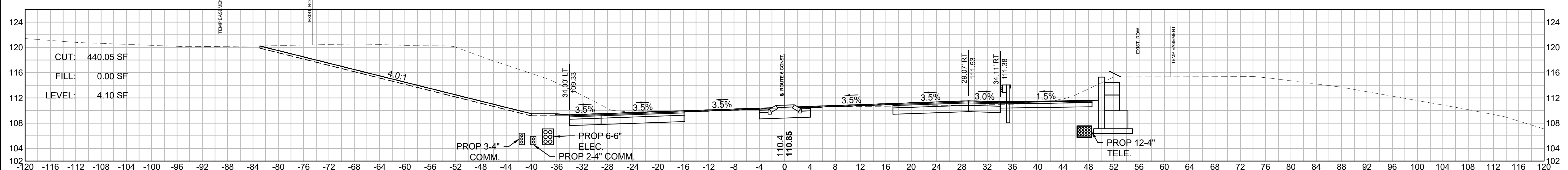


163+00

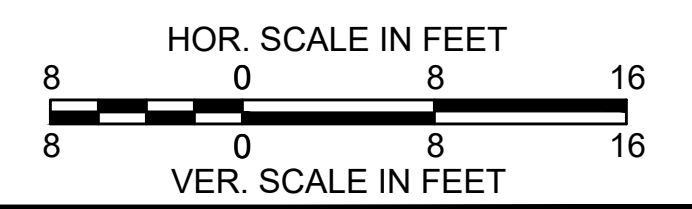


162+72

**SUPERELEVATION:**  
PC STA 162+20.38  
PT STA 173+98.24  
R=3000.00'  
BANK = 4.0%



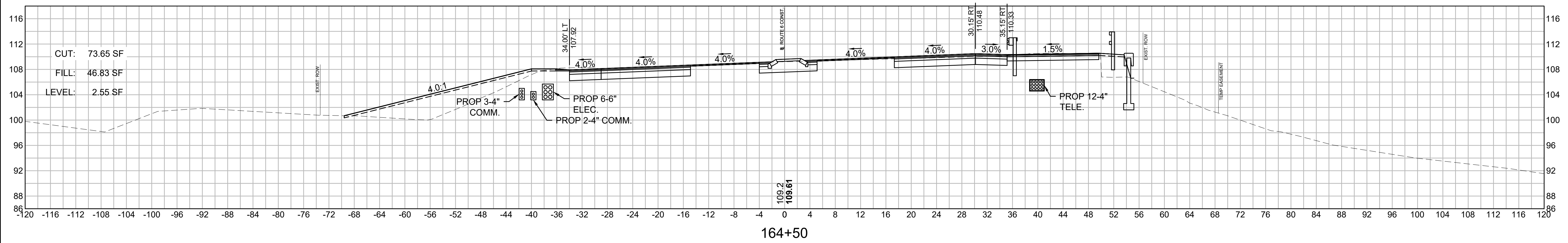
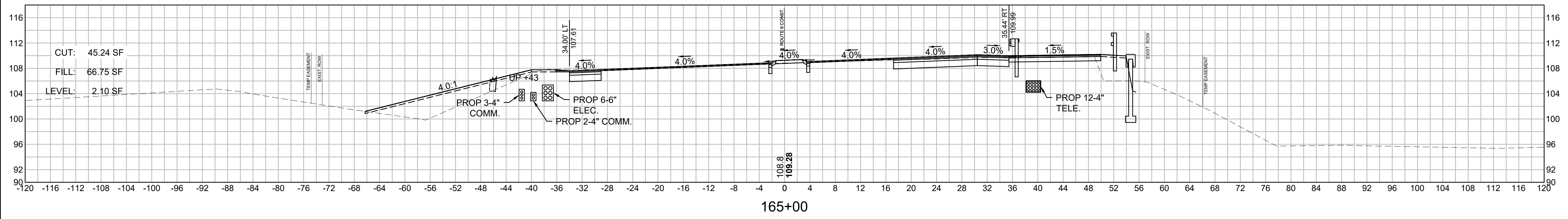
162+50



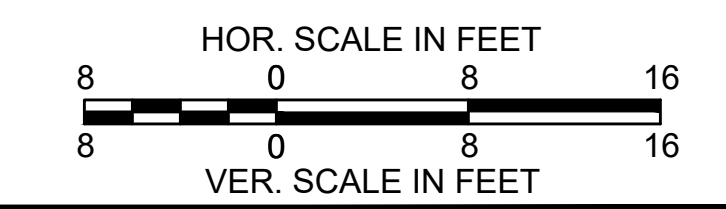
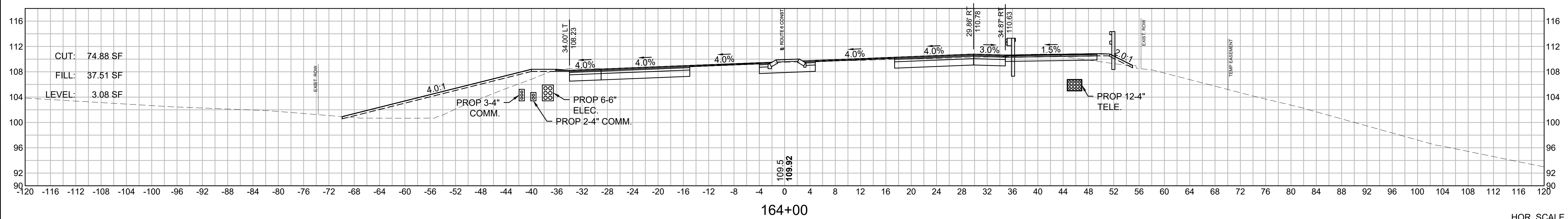
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	256	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 65 OF 76**



**SUPERELEVATION:**  
PC STA 162+20.38  
PT STA 173+98.24  
R=3000.00'  
BANK = 4.0%

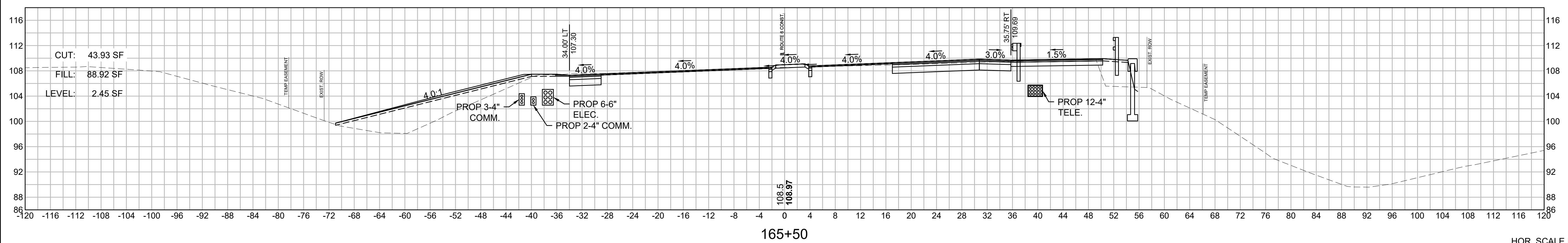
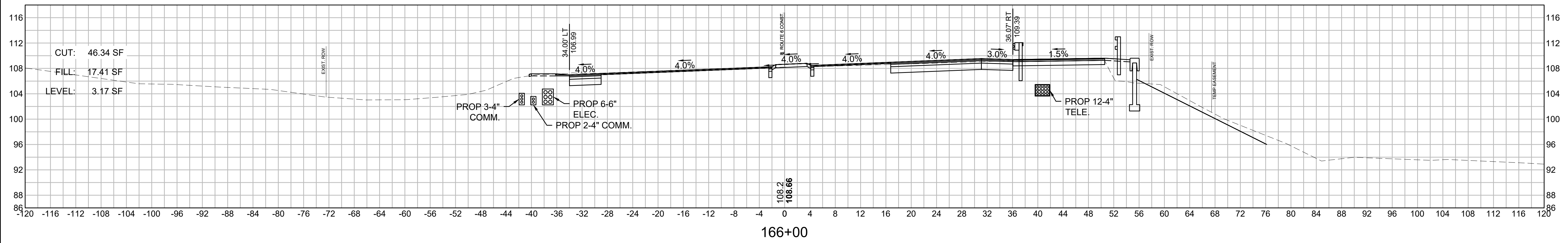
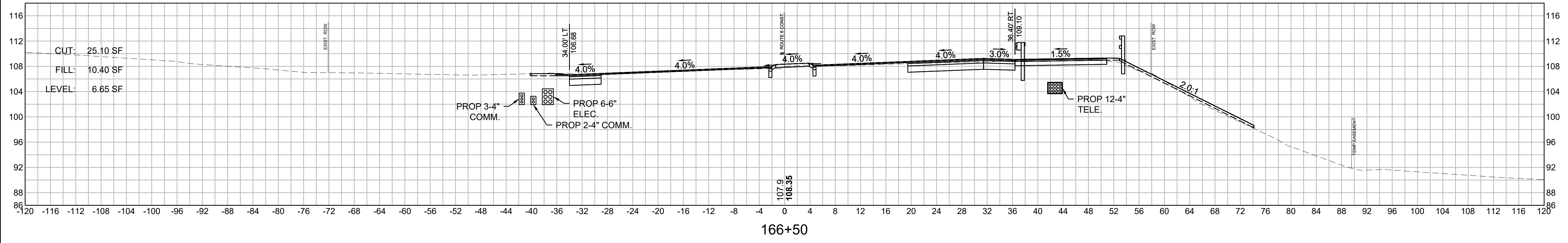




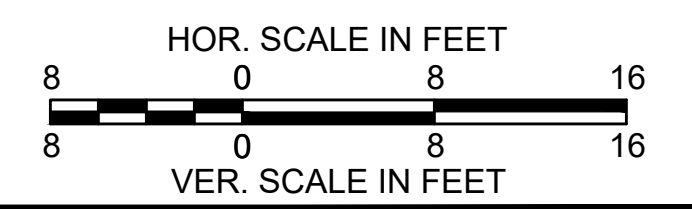
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	257	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 66 OF 76**



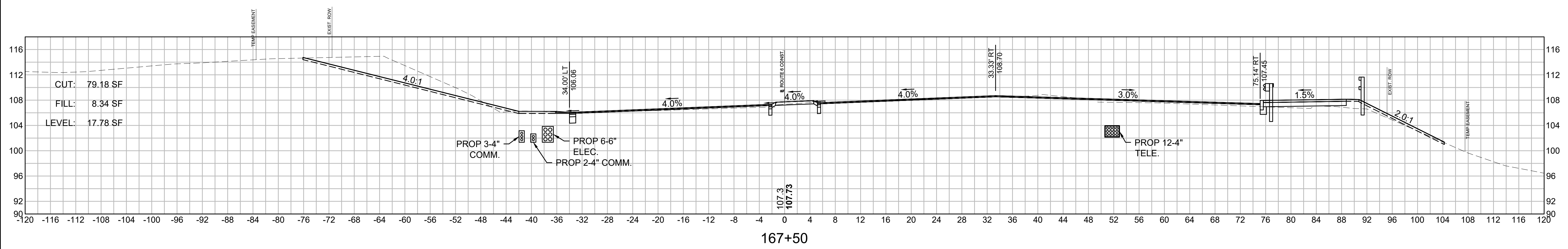
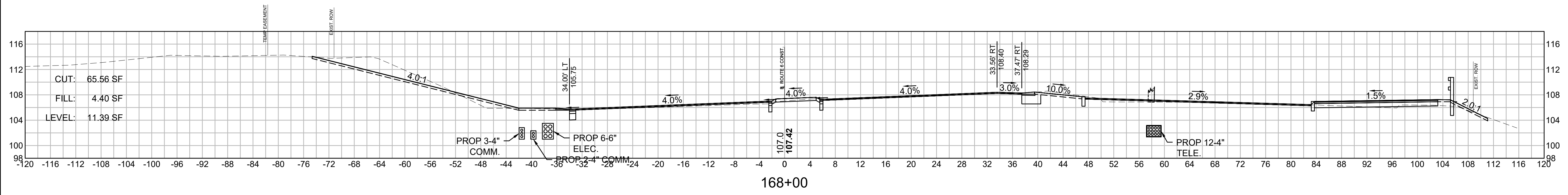
**SUPERELEVATION:**  
PC STA 162+20.38  
PT STA 173+98.24  
R=3000.00'  
BANK = 4.0%



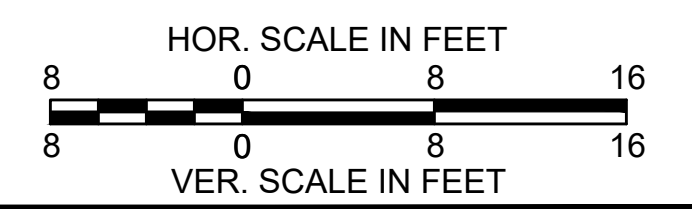
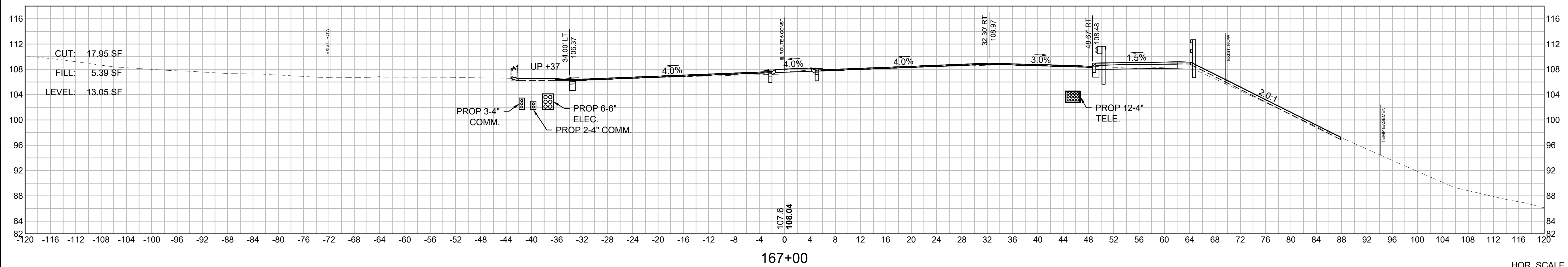
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	258	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 67 OF 76**



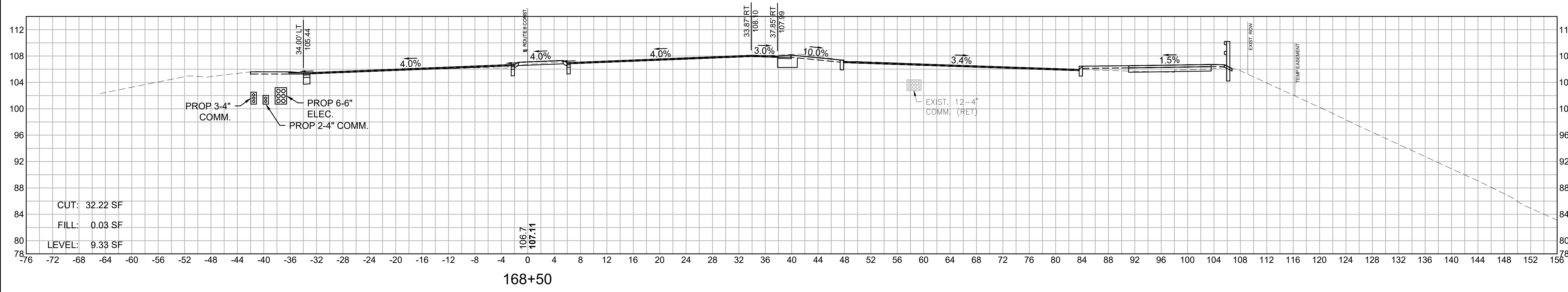
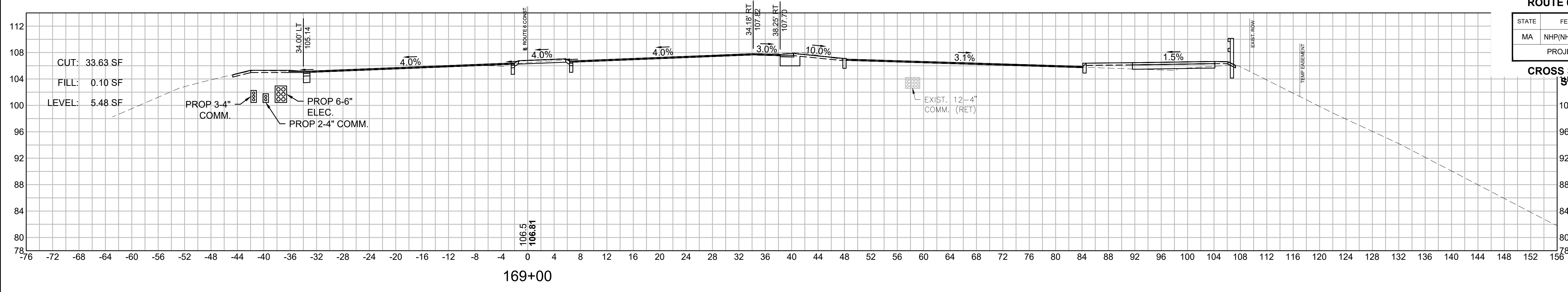
**SUPERELEVATION:**  
PC STA 162+20.38  
PT STA 173+98.24  
R=3000.00'  
BANK = 4.0%



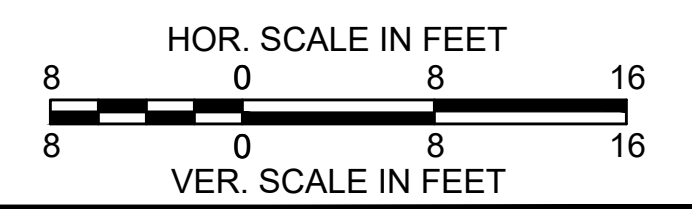
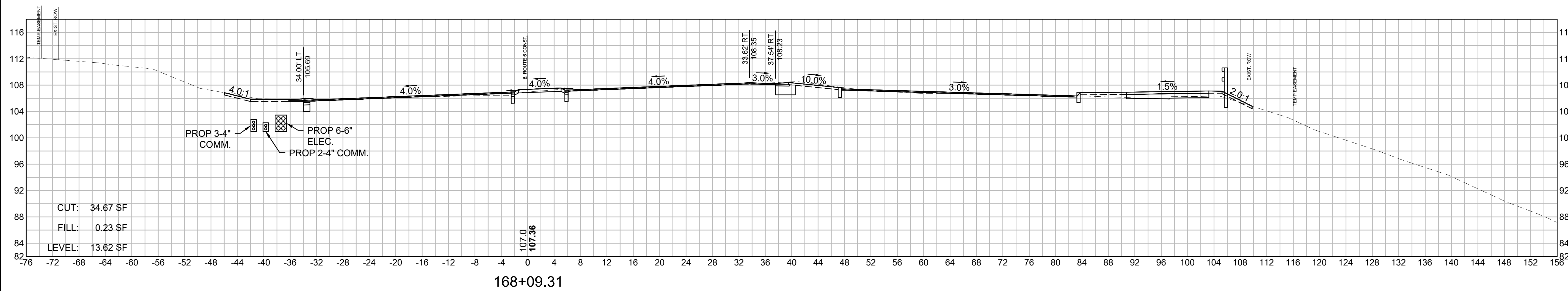
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	259	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 68 OF 76**



**SUPERELEVATION:**  
 PC STA 162+20.38  
 PT STA 173+98.24  
 R=3000.00'  
 BANK = 4.0%

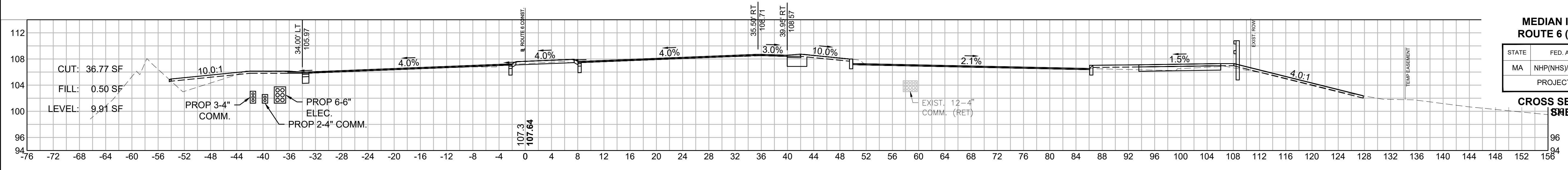




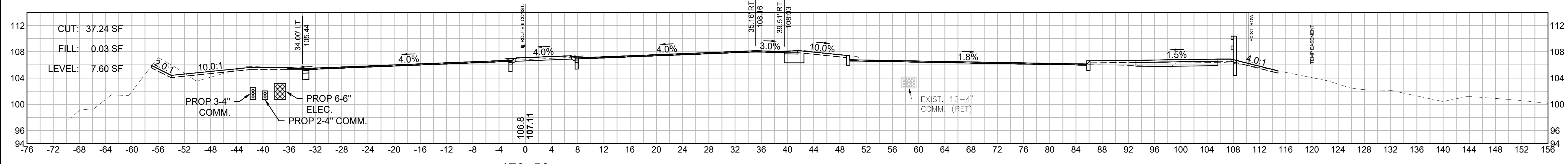
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	260	272
PROJECT FILE NO.		606082	

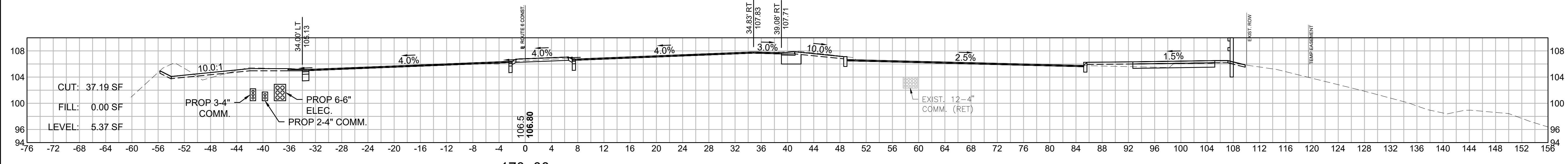
**CROSS SECTIONS - ROUTE 6  
SHEET 69 OF 76**



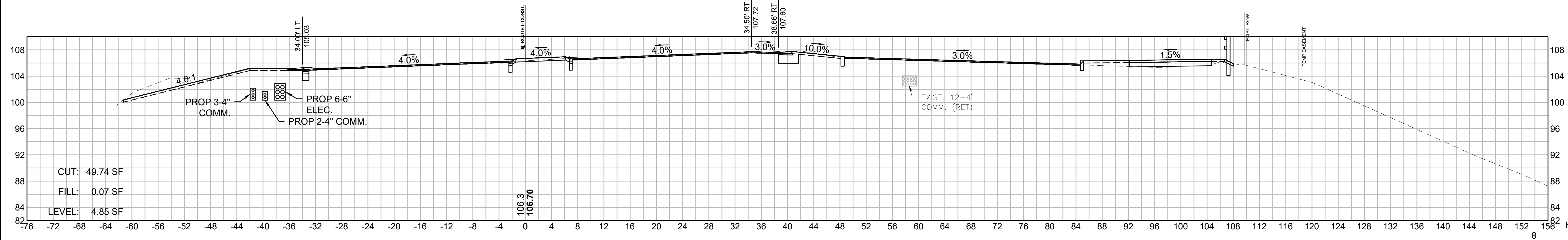
171+00



170+50

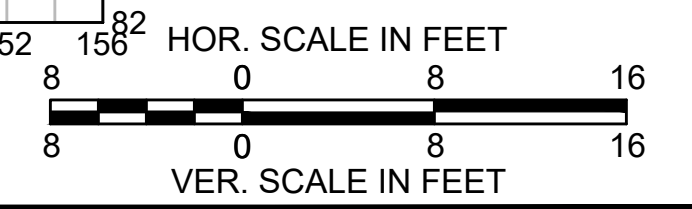


170+00



169+50

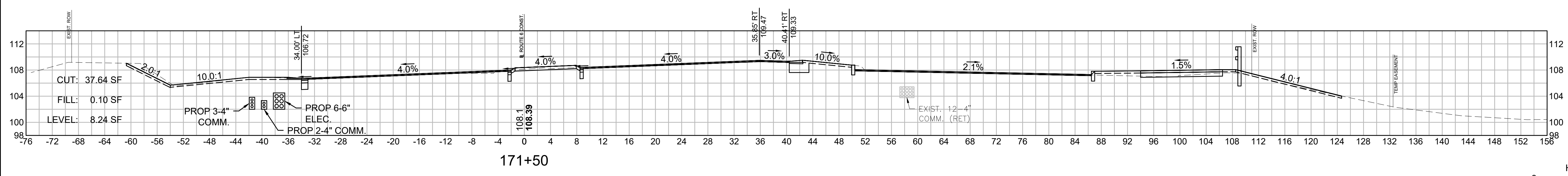
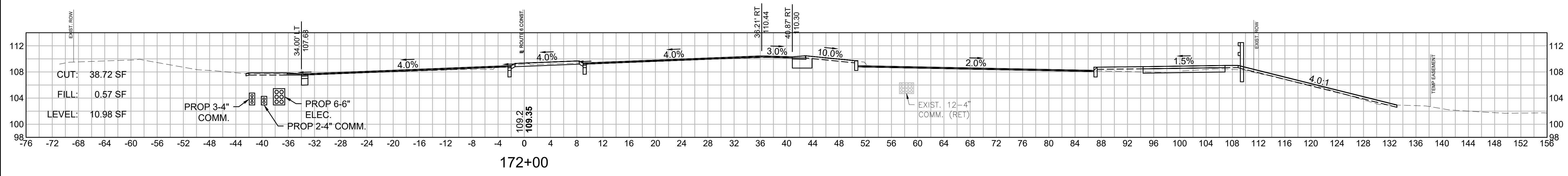
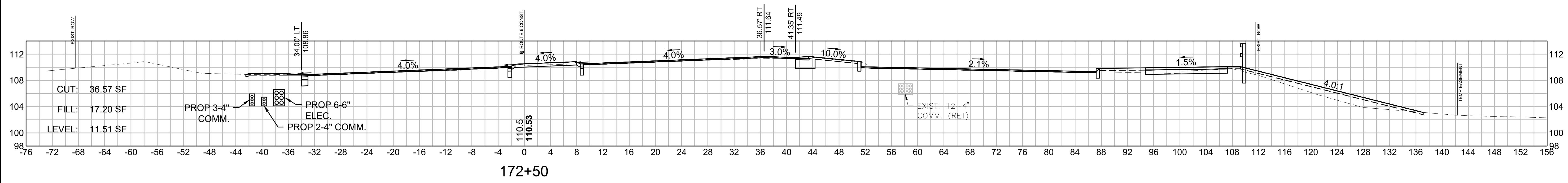
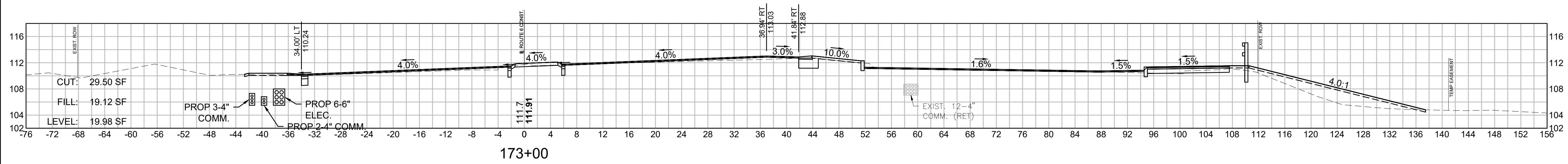
**SUPERELEVATION:**  
PC STA 162+20.38  
PT STA 173+98.24  
R=3000.00'  
BANK = 4.0%



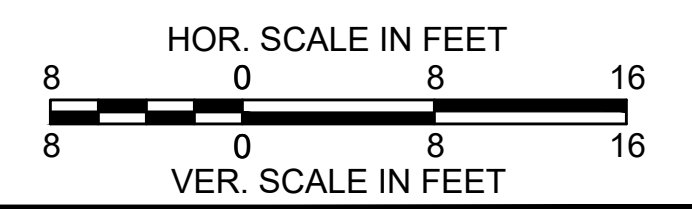
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	261	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 70 OF 76**



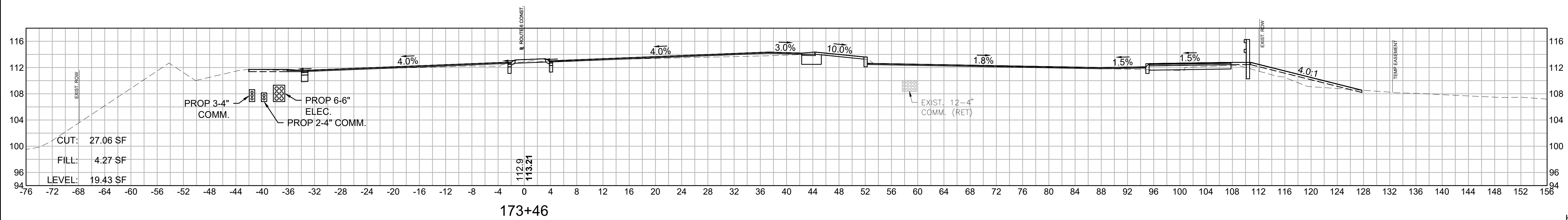
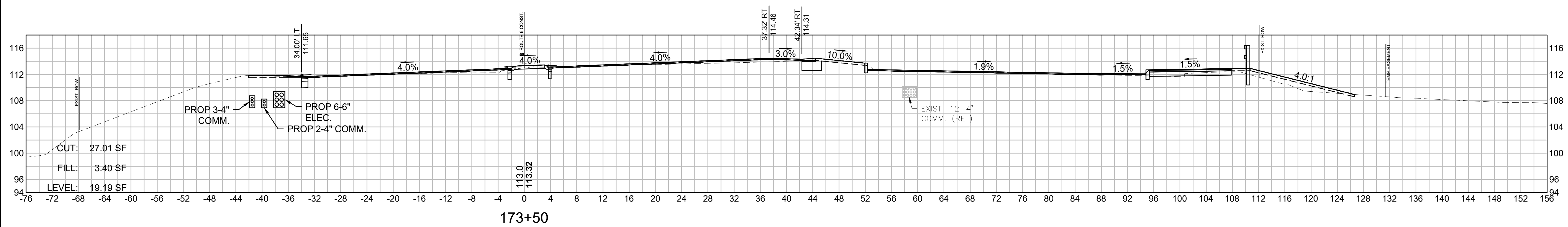
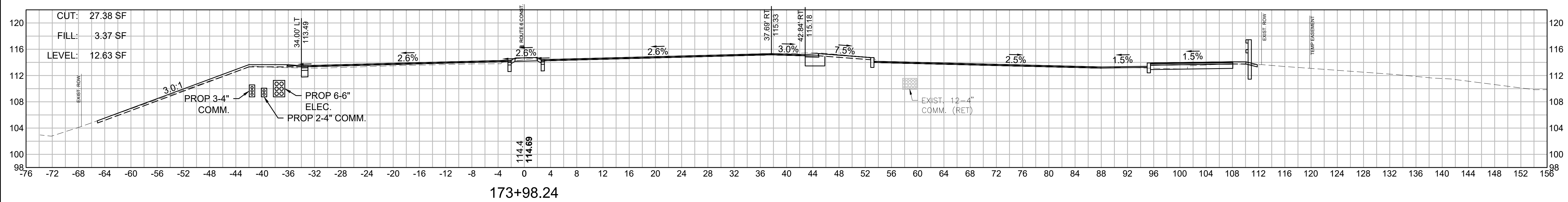
**SUPERELEVATION:**  
 PC STA 162+20.38  
 PT STA 173+98.24  
 R=3000.00'  
 BANK = 4.0%



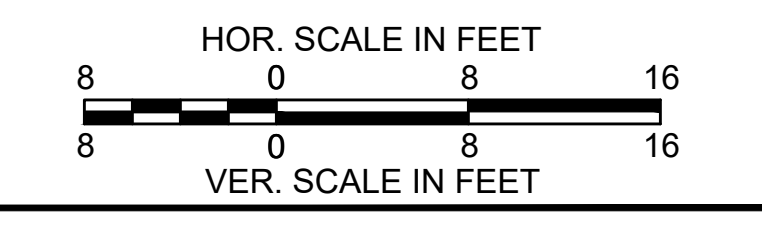
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	262	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 71 OF 76**



**SUPERELEVATION:**  
 PC STA 162+20.38  
 PT STA 173+98.24  
 R=3000.00'  
 BANK = 4.0%

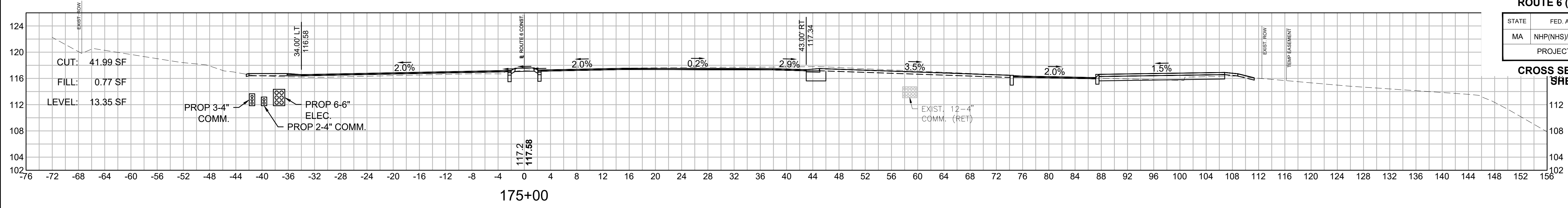




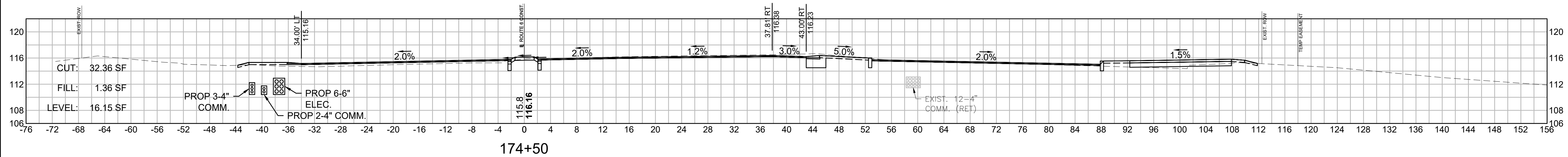
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	263	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 72 OF 76**

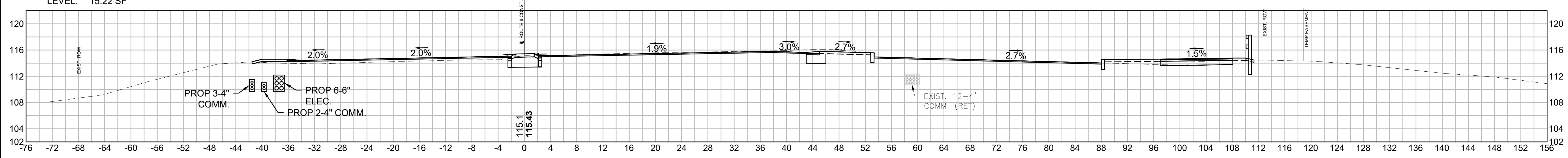


175+00



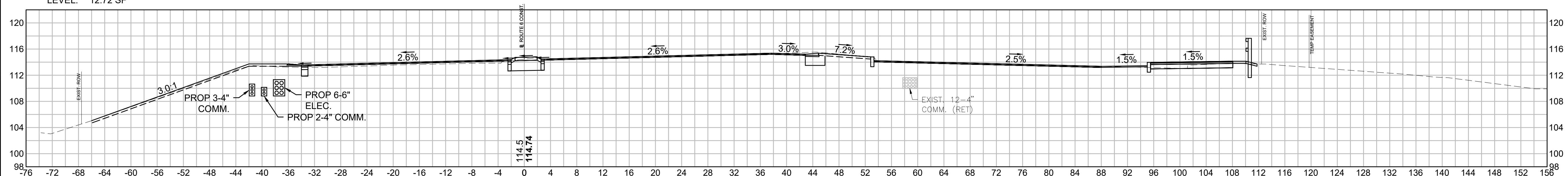
174+50

CUT: 43.57 SF  
FILL: 2.08 SF  
LEVEL: 15.22 SF



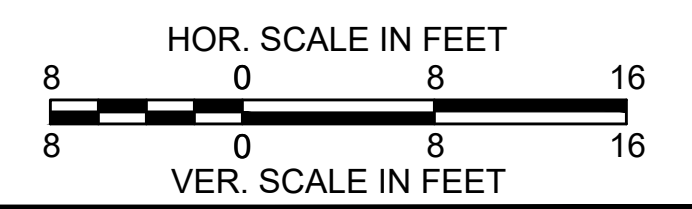
174+24

CUT: 27.32 SF  
FILL: 3.30 SF  
LEVEL: 12.72 SF



174+00

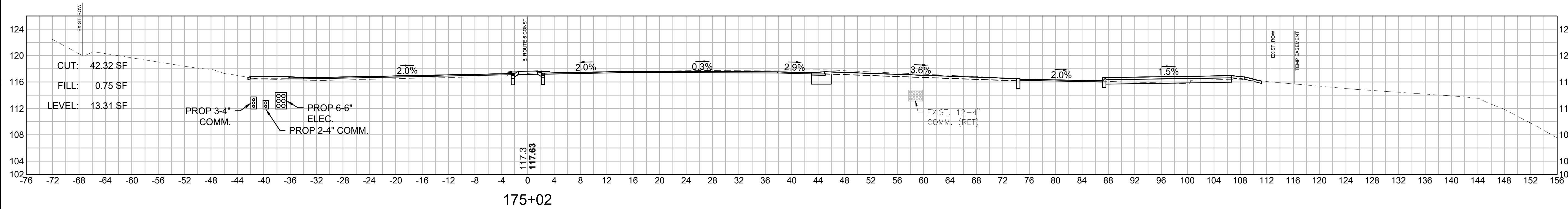
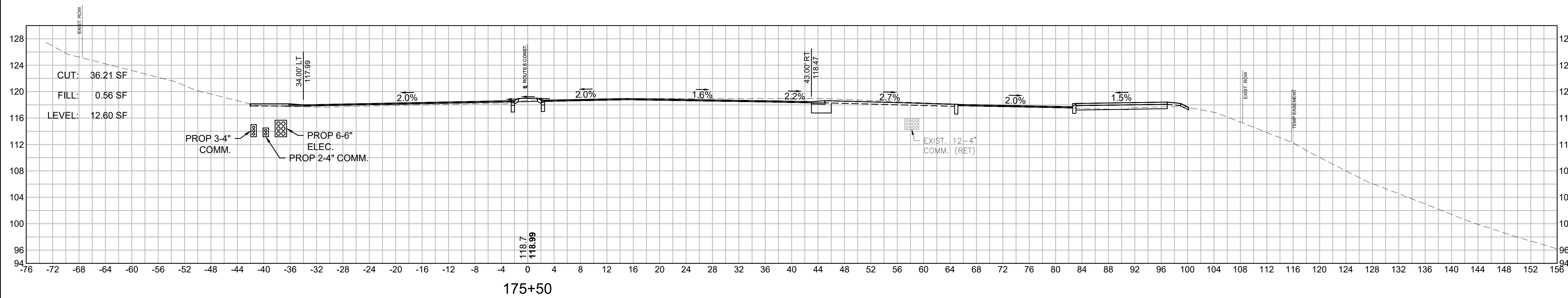
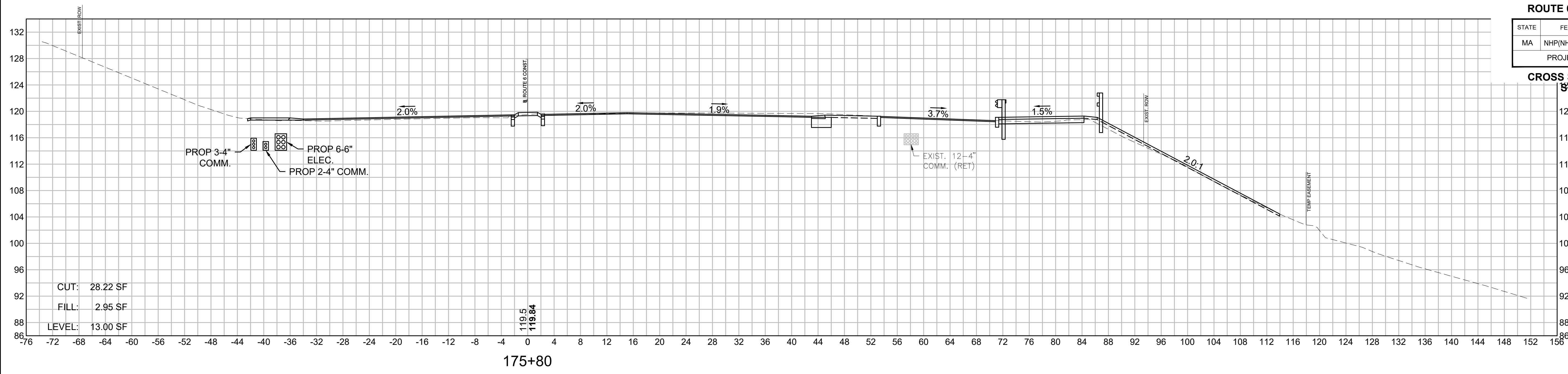
**SUPERELEVATION:**  
PC STA 162+20.38  
PT STA 173+98.24  
R=3000.00'  
BANK = 4.0%



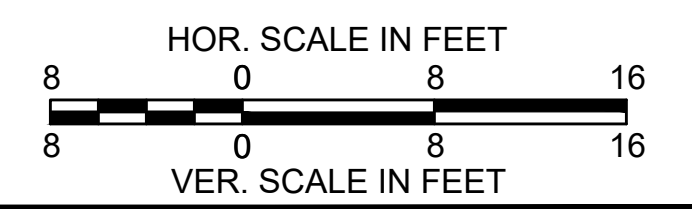
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	264	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 73 OF 76**



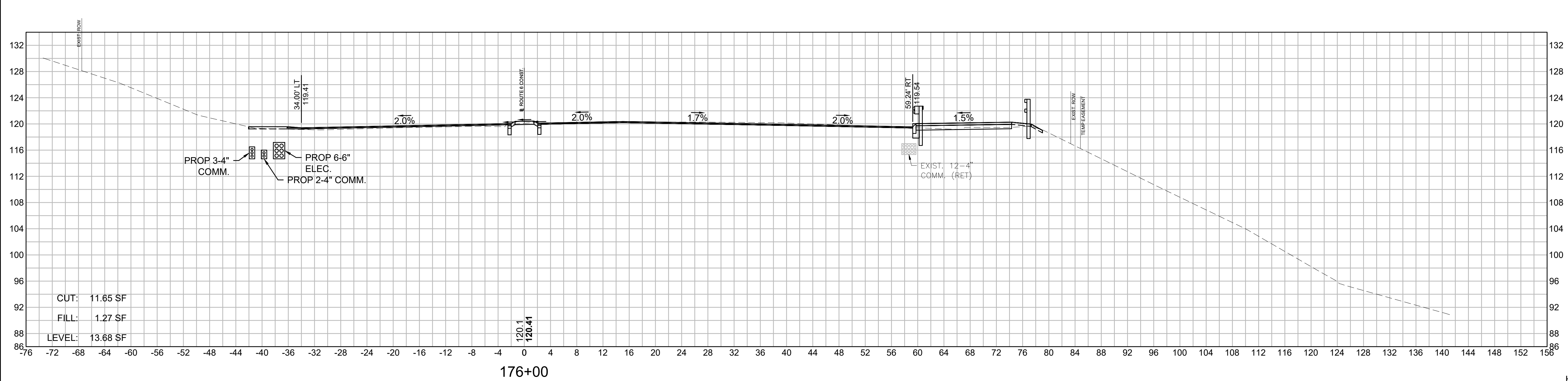
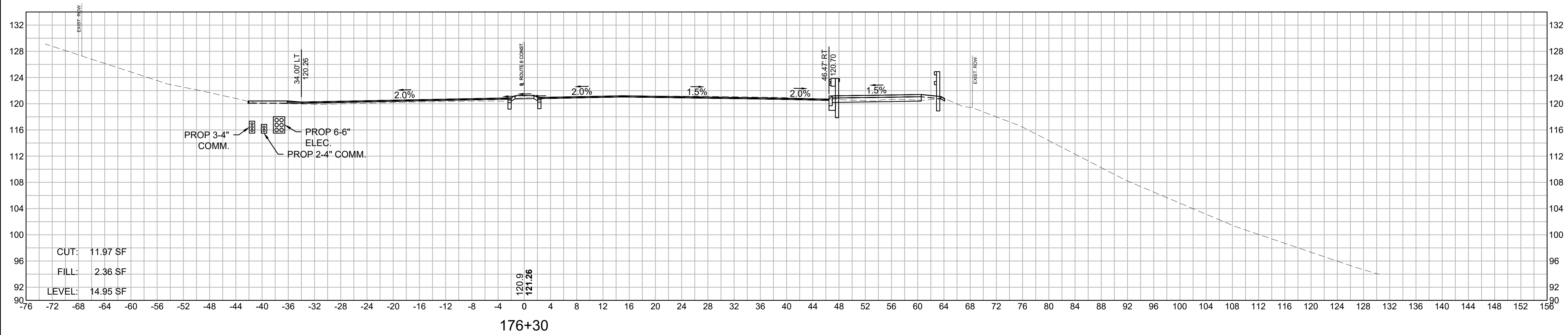
**SUPERELEVATION:**  
PC STA 162+20.38  
PT STA 173+98.24  
R=3000.00'  
BANK = 4.0%



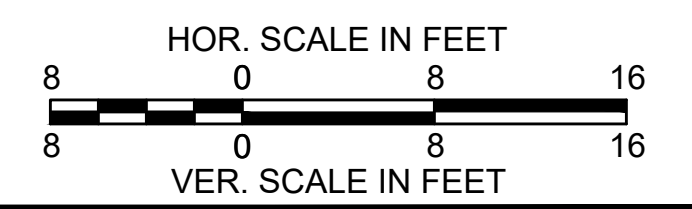
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	265	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - ROUTE 6  
SHEET 74 OF 76**



**SUPERELEVATION:**  
 PC STA 162+20.38  
 PT STA 173+98.24  
 R=3000.00'  
 BANK = 4.0%

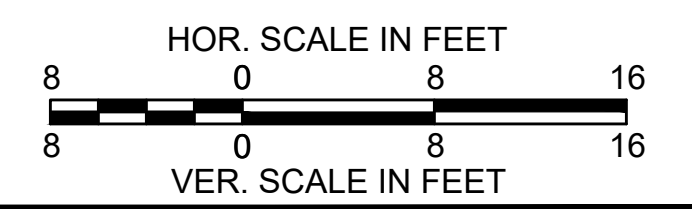
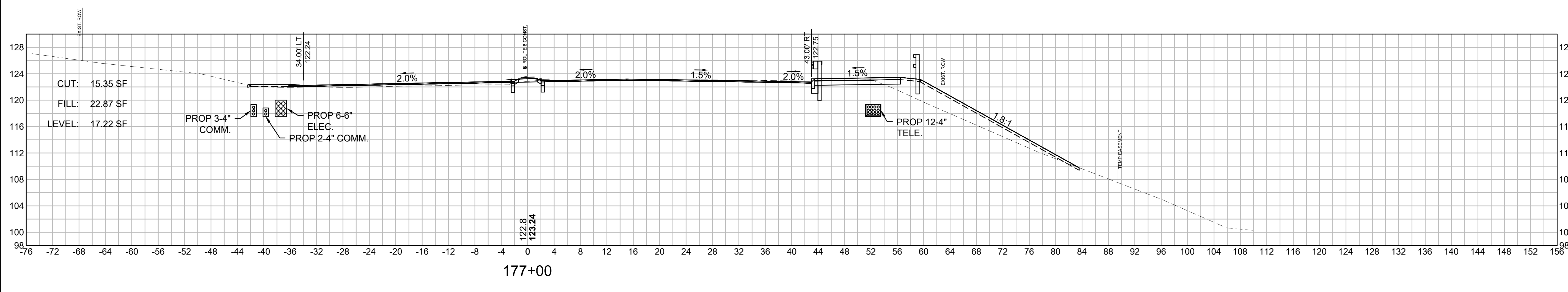
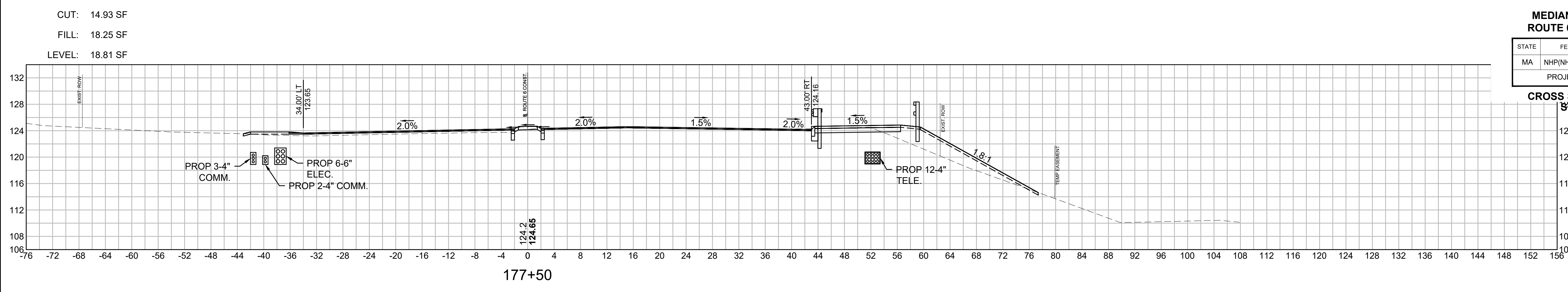




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	266	272
PROJECT FILE NO.		606082	

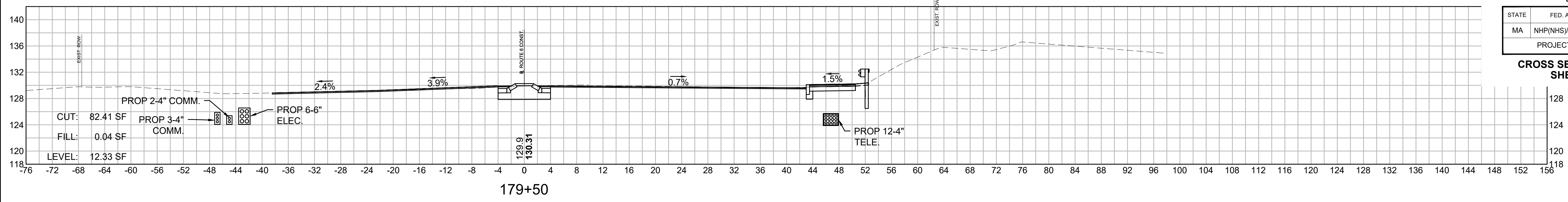
**CROSS SECTIONS - ROUTE 6  
SHEET 75 OF 76**



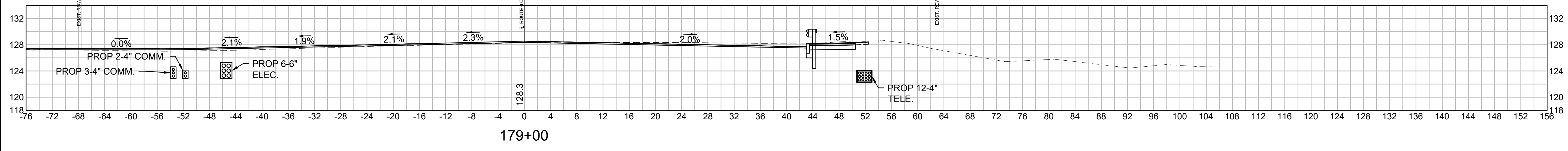
**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	267	272
PROJECT FILE NO.		606082	

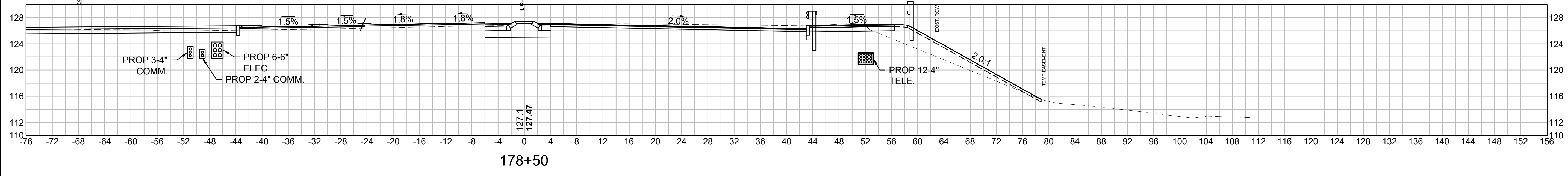
**CROSS SECTIONS - ROUTE 6  
SHEET 76 OF 76**



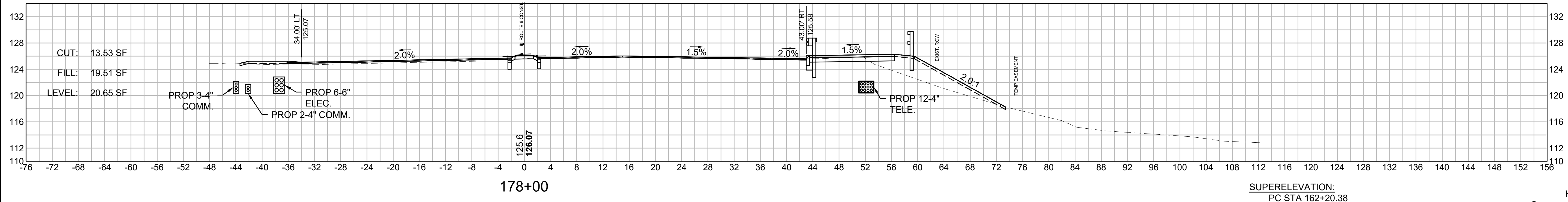
CUT: 34.36 SF  
FILL: 0.00 SF  
LEVEL: 21.04 SF



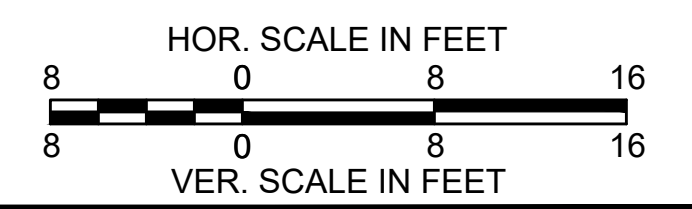
CUT: 57.84 SF  
FILL: 12.58 SF  
LEVEL: 12.98 SF



CUT: 13.53 SF  
FILL: 19.51 SF  
LEVEL: 20.65 SF



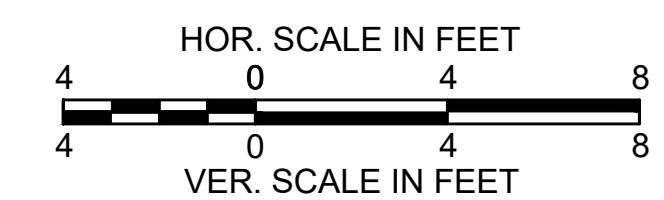
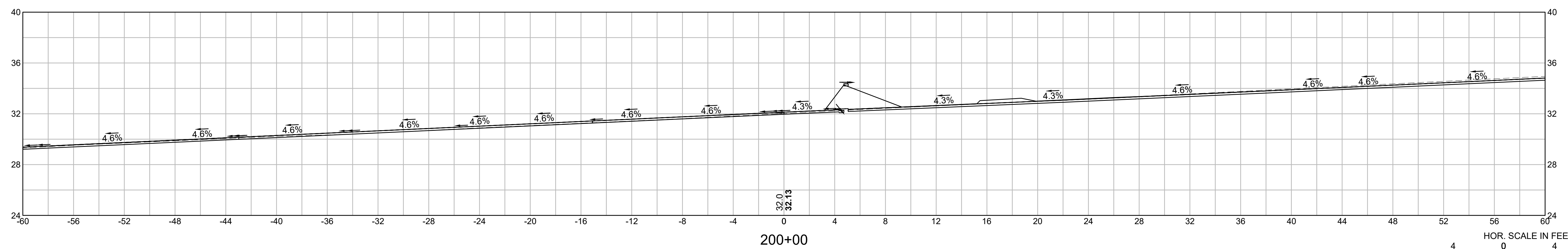
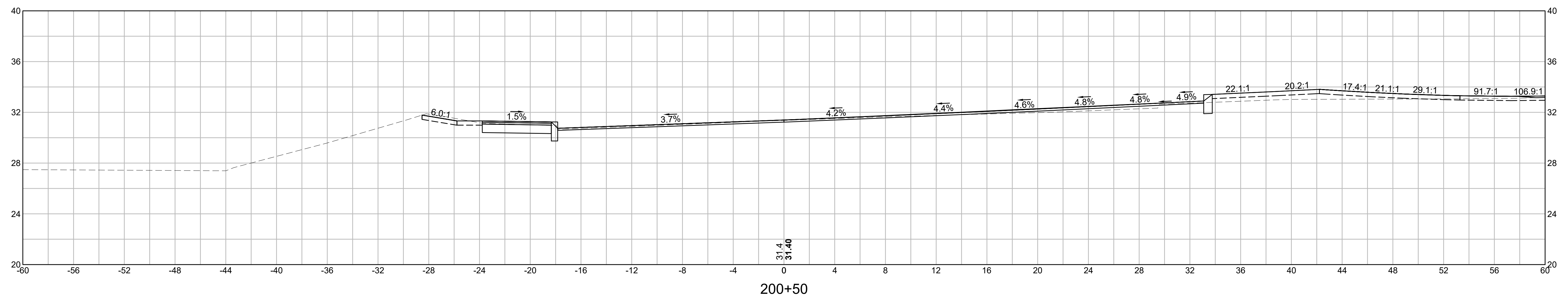
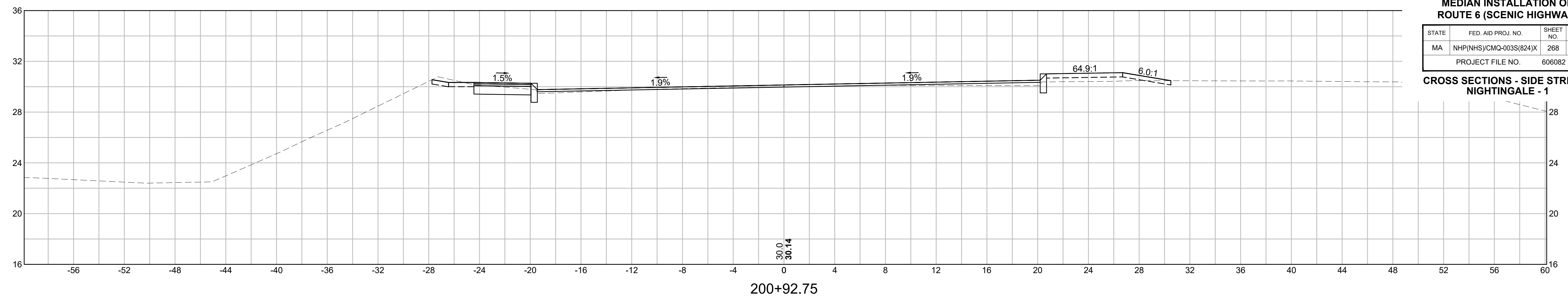
SUPERELEVATION:  
PC STA 162+20.38  
PT STA 173+98.24



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	268	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - SIDE STREETS  
NIGHTINGALE - 1**

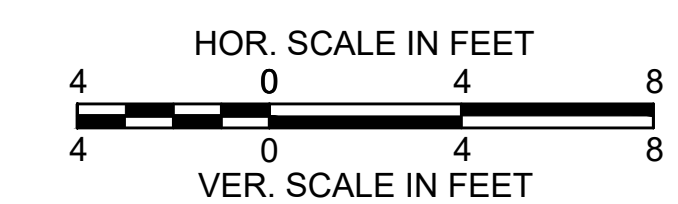
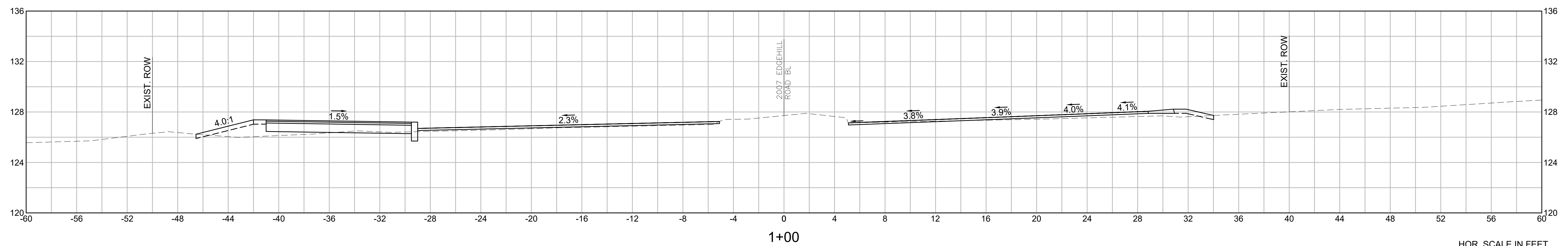
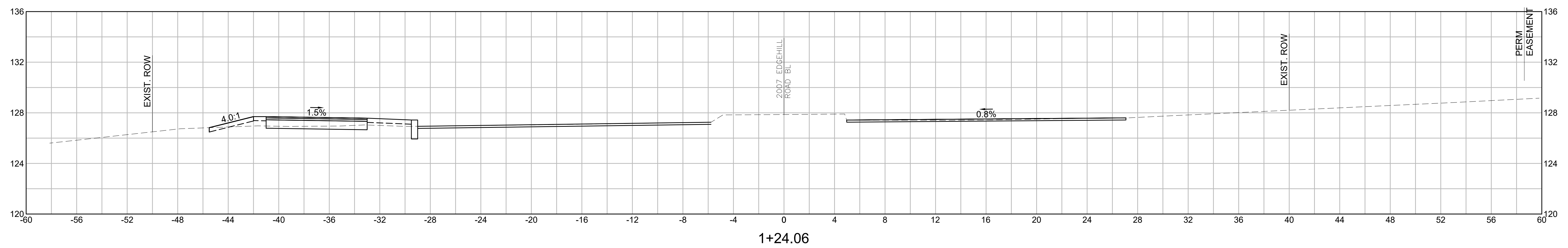
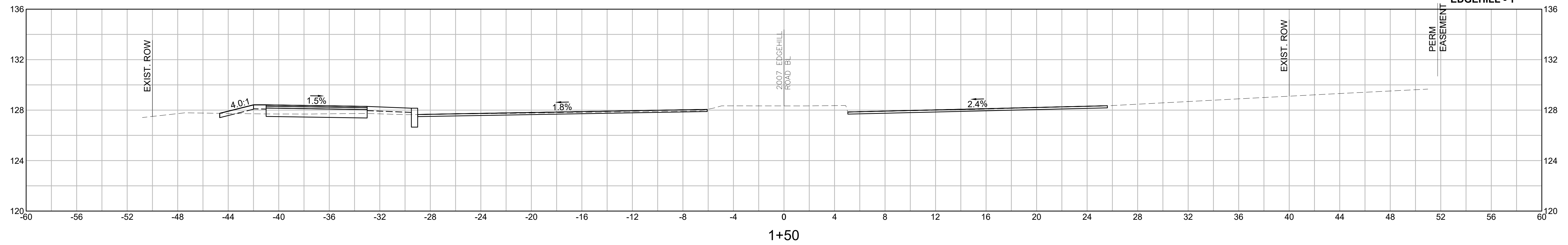




**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	269	272
PROJECT FILE NO.		606082	

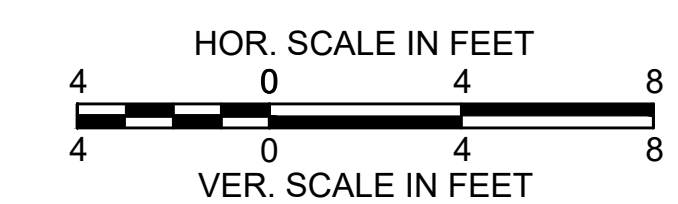
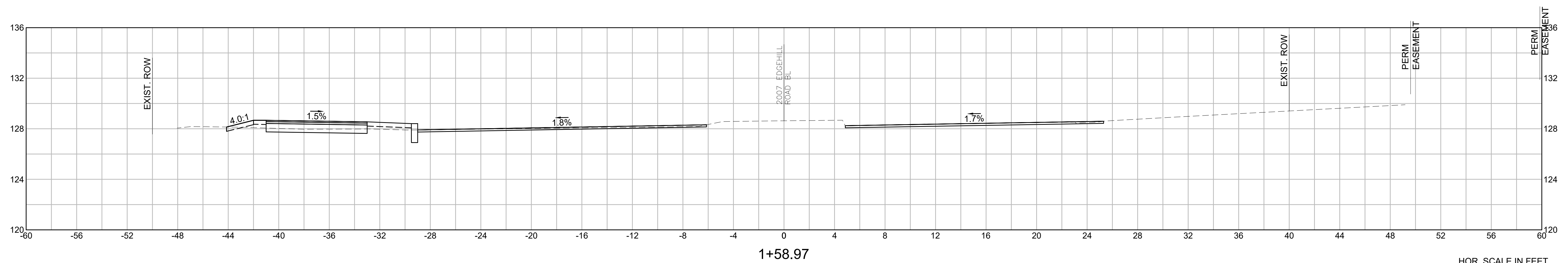
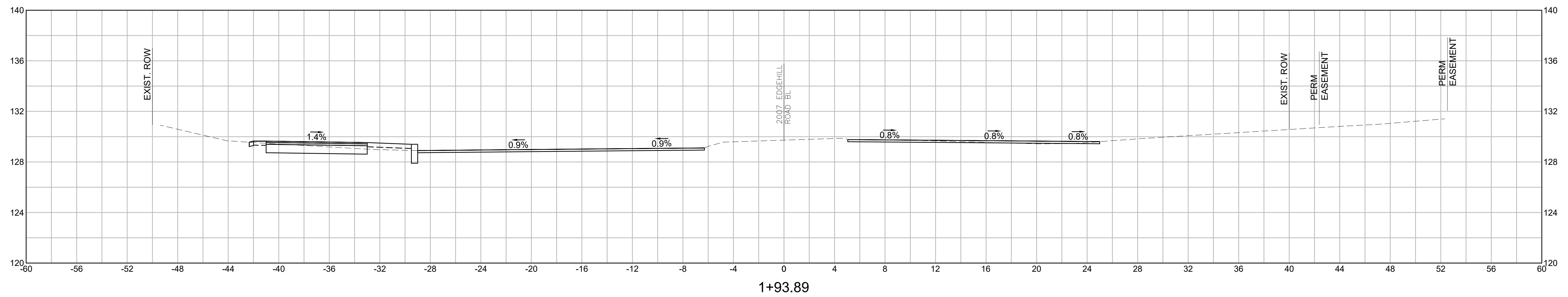
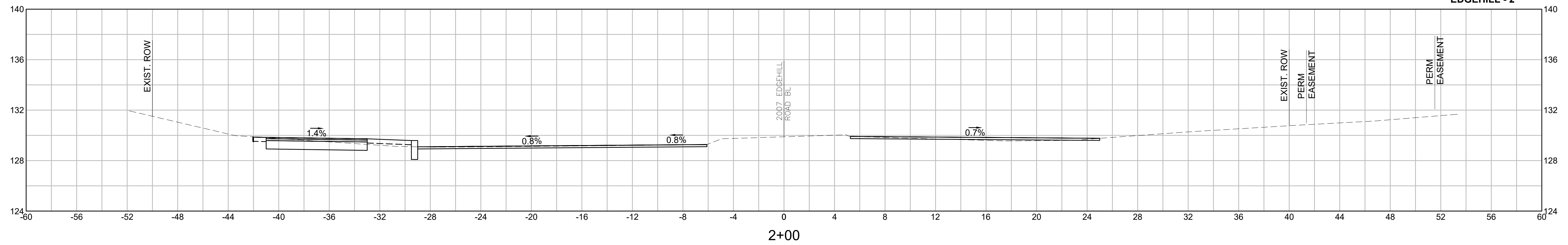
**CROSS SECTIONS - SIDE STREETS  
EDGEHILL - 1**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	270	272
PROJECT FILE NO.		606082	

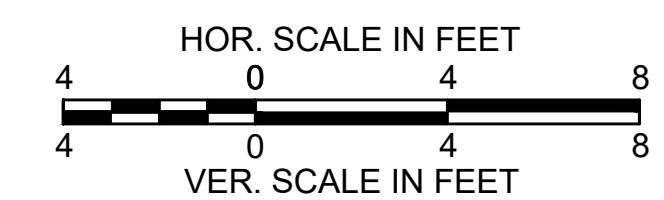
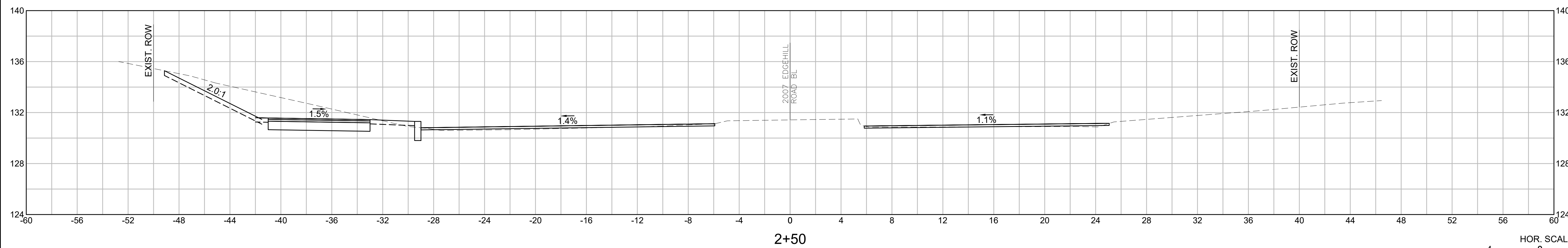
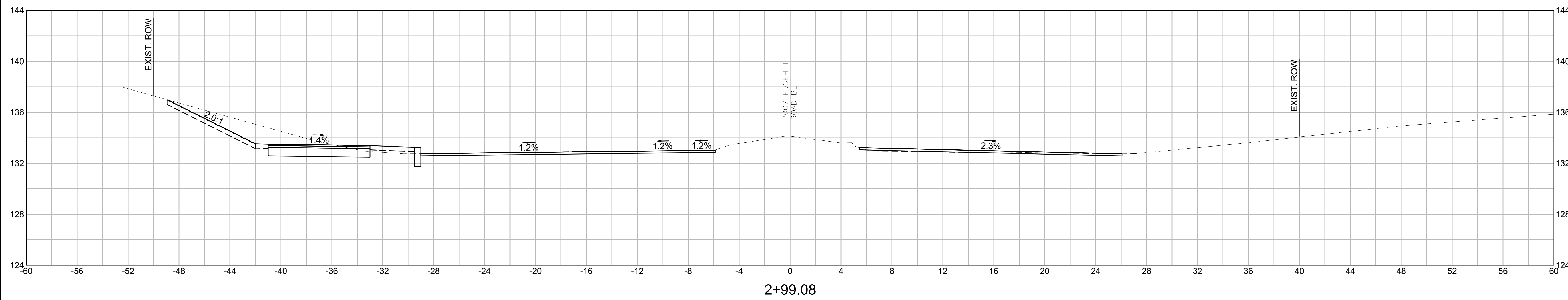
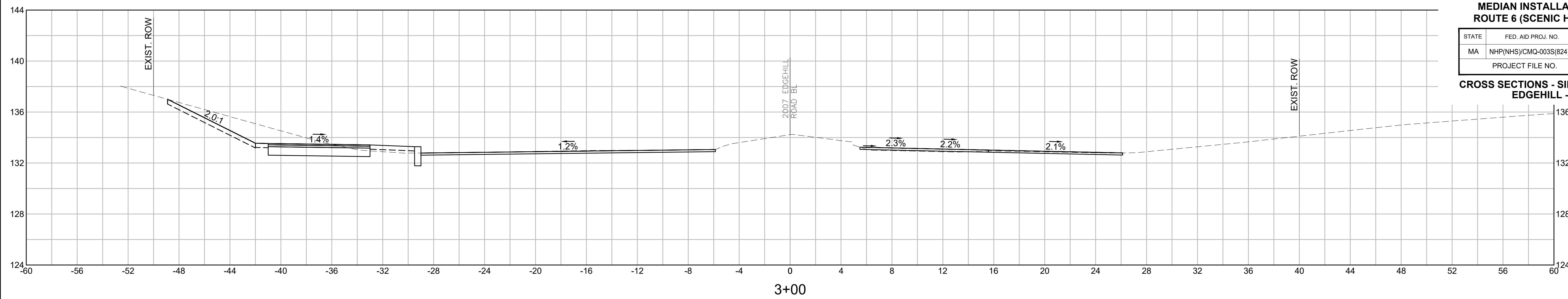
**CROSS SECTIONS - SIDE STREETS  
EDGEHILL - 2**



**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	271	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - SIDE STREETS  
EDGEHILL - 3**





**BOURNE  
MEDIAN INSTALLATION ON  
ROUTE 6 (SCENIC HIGHWAY)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)/CMQ-003S(824)X	272	272
PROJECT FILE NO.		606082	

**CROSS SECTIONS - SIDE STREETS  
EDGEHILL - 4**

