

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		1	31
PROJECT FILE NO.		604813	

TITLE & INDEX

RECONSTRUCTION OF EDGARTOWN-VINEYARD HAVEN ROAD AT AIRPORT ROAD & BARNES ROAD

IN THE TOWN OF
OAK BLUFFS
DUKES COUNTY

FEDERAL AID PROJECT NO.

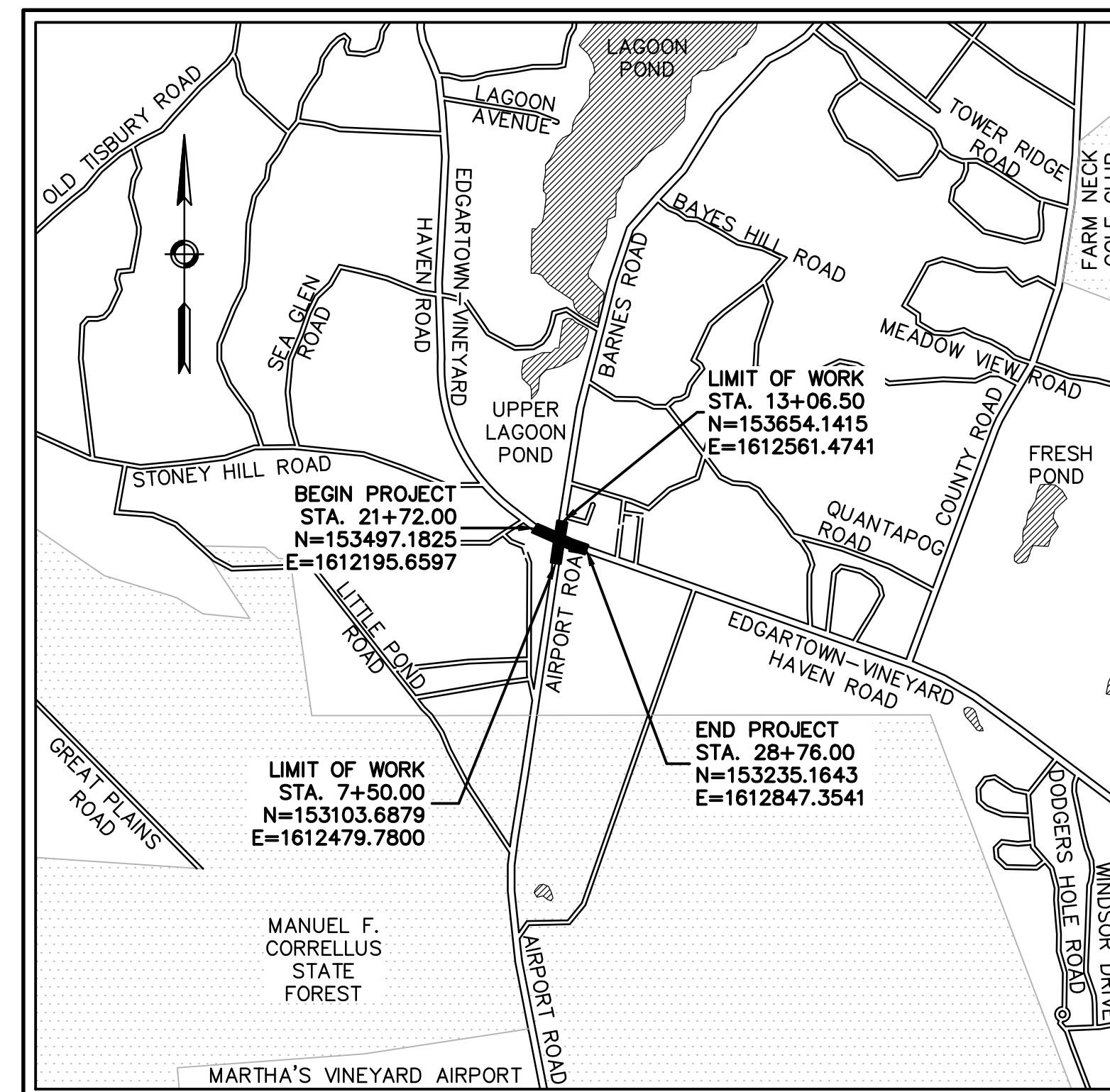
THE 1988 MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES; THE SUPPLEMENTAL SPECIFICATIONS, DATED FEBRUARY 25, 2010; THE 2010 CONSTRUCTION STANDARD DETAILS; 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS (TRAFFIC STANDARD DETAILS ONLY); THE 2003 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" WITH MASSACHUSETTS AMENDMENTS; THE 1988 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING; AND THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK WILL GOVERN.

INDEX

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DESIGN DESIGNATION

	EDGARTOWN-VINEYARD HAVEN ROAD	BARNES ROAD	AIRPORT ROAD
DESIGN SPEED (ROUNDBOUT):	35 MPH (20 MPH)	20 MPH	20 MPH
ADT (2009):	9426	4069	4194
ADT (2029):	12695	5480	5649
K:	8.8%	9.5%	10.4%
D:	52.5% WB	50.4% SB	57.9% SB
T (PEAK HOUR):	4.0%	3.4%	4.6%
T (AVERAGE DAY):	2.6%	3.1%	3.7%
DHV:	1117	522	589
DDHV:	586	263	341
FUNCTIONAL CLASSIFICATION:	URBAN PRINCIPAL ARTERIAL	LOCAL ROAD	LOCAL ROAD

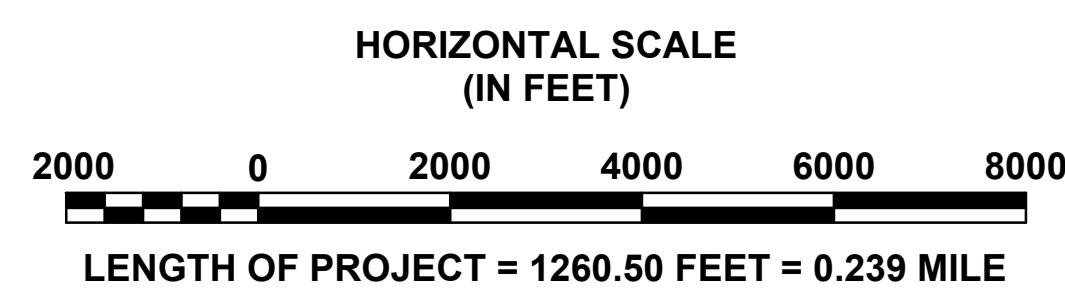


CONVENTIONAL SYMBOLS

COUNTY, CITY, OR TOWN BOUNDARY	-----
COUNTY, CITY, OR TOWN SIDE LINE	-----
FENCE LINE	X-X-X-X-X-X
BASE LINE OR SURVEY LINE	S36°04'20"W 53.59'
RIGHT OF WAY LINE	-----
CULVERT	-----
RETAINING WALL	-----
GUARD RAIL	-----
STONE WALL	-----
TREE LINE	-----
POLE	○

ELEVATIONS	PROPOSED SURFACE	PRESENT SURFACE
10+00	PRES. 90.7	PROP. 90.81

LOCATION MAP

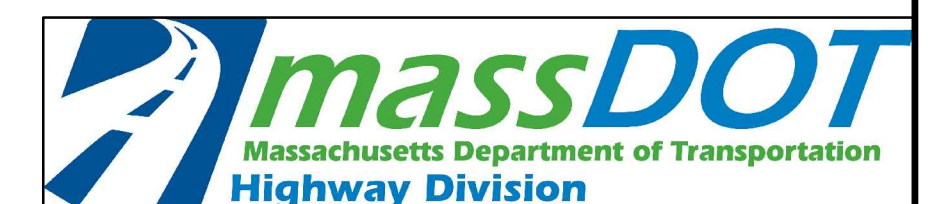


GPI Greenman-Pedersen, Inc.
Engineers, Architects, Planners, Construction Engineers & Inspectors
105 Central Street, Suite 4100, Stoneham, MA 02180
Tel: (781) 279-5500 Fax: (781) 279-5501
http://www.gpinet.com

POWER ENGINEERS, LLC
37 Fox Den Road
Kingston, MA 02364-2150 Electrical Engineering, Power, Lighting,
(508) 612-0382 Technical Studies and Utility Consulting
www.PowerEngineersLLC.com

DBLA David Bartsch Landscape Architecture LLC
Site Planning and Design Construction Management
DBLA PROJECT NO. 1008 199 SALEM STREET, BOSTON, MA 02113
75% PLAN - OCT. 2011 (617) 482-1081 WWW.DBLA-BOSTON.COM

**75%
SUBMISSION
OCTOBER 2011**



RECOMMENDED FOR APPROVAL

CHIEF ENGINEER DATE

APPROVED

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

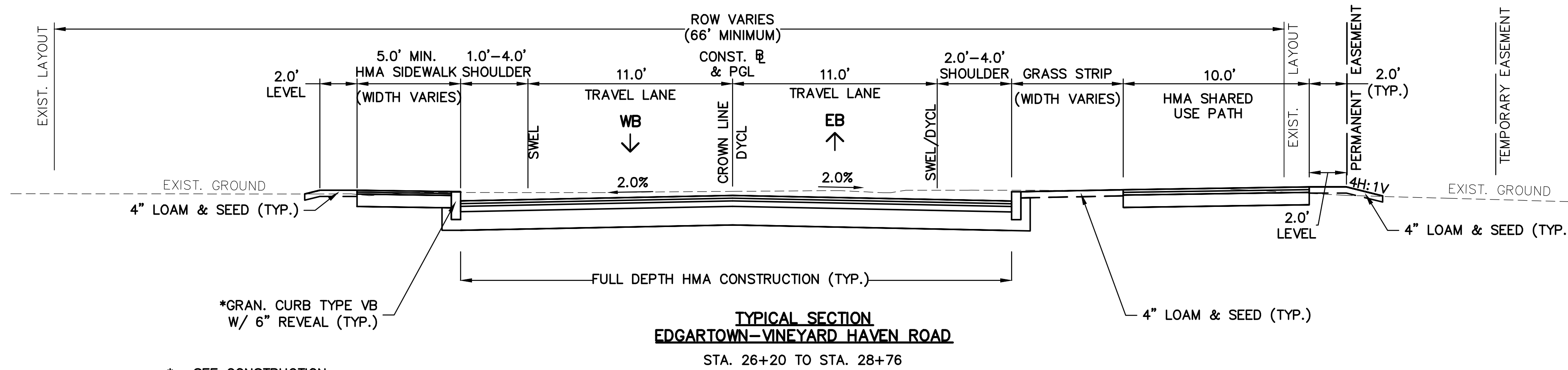
DIVISION ADMINISTRATOR DATE

IN CHARGE OF: JMD
DRAWN BY: JFO
CHECKED BY: GJH/JMD

OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		3	31
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TYPICAL SECTIONS



* SEE CONSTRUCTION PLANS FOR CURB TYPE AND LIMITS

PAVEMENT NOTES

FULL DEPTH HMA CONSTRUCTION

SURFACE: 3 1/2" HOT MIX ASPHALT PLACED IN TWO LAYERS;
1 3/4" SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5) LATEX MODIFIED TOP COURSE OVER
1 3/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC - 19.0) BINDER COURSE OVER

BASE: 3 1/2" SUPERPAVE BASE COURSE - 37.5 (SBC - 37.5) PLACED IN ONE LAYER OVER

SUBBASE: 12" GRAVEL BORROW (TYPE B)

HOT MIX ASPHALT SHARED USE PATH & DRIVEWAY

SURFACE: 3 1/2" HOT MIX ASPHALT SURFACE COURSE PLACED IN TWO LAYERS;
1 1/2" HOT MIX ASPHALT SURFACE COURSE - TOP COURSE MATERIAL
2" HOT MIX ASPHALT INTERMEDIATE COURSE - BINDER COURSE MATERIAL

SUBBASE: 8" GRAVEL BORROW (TYPE B)

HOT MIX ASPHALT SIDEWALK

SURFACE: 2 1/2" HOT MIX ASPHALT SURFACE COURSE PLACED IN TWO LAYERS;
1 1/4" HOT MIX ASPHALT SURFACE COURSE - TOP COURSE MATERIAL
1 1/4" HOT MIX ASPHALT INTERMEDIATE COURSE - BINDER COURSE MATERIAL

SUBBASE: 8" GRAVEL BORROW (TYPE B)

CEMENT CONCRETE WHEELCHAIR RAMPS & SPLITTER ISLANDS

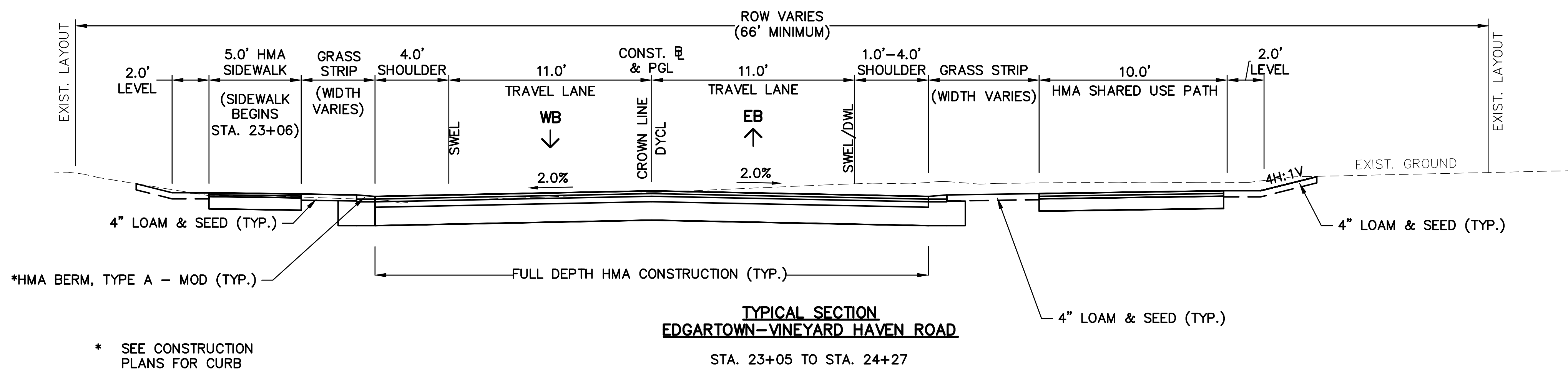
SURFACE: 4" CEMENT CONCRETE (AIR ENTRAINED 4000 PSI, 3/4", 610)

SUBBASE: 8" GRAVEL BORROW (TYPE B)

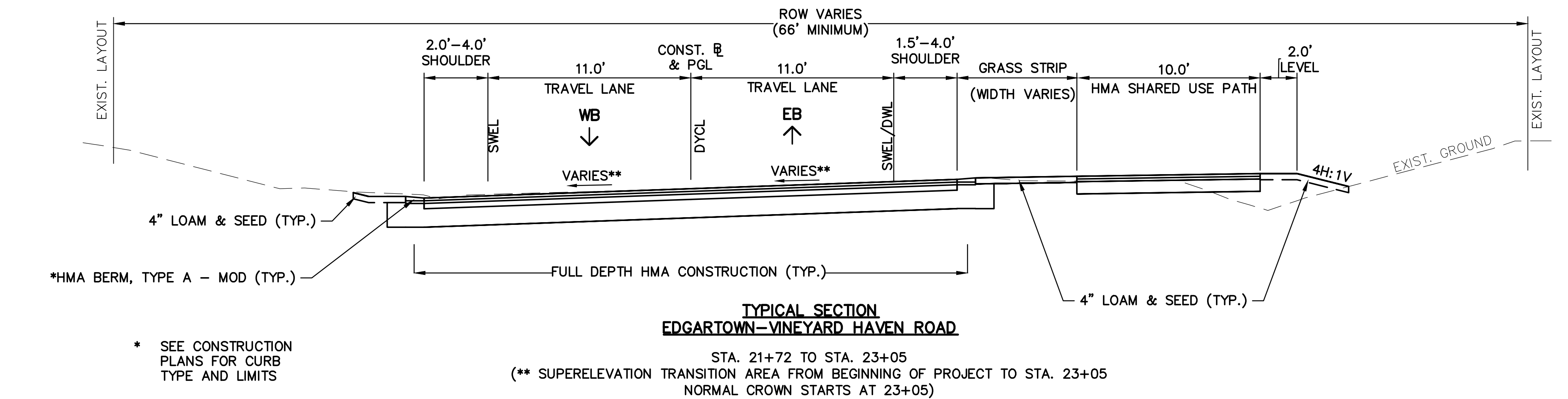
STAMPED CEMENT CONCRETE TRUCK APRON

SURFACE: 6" CEMENT CONCRETE, WELDED WIRE MESH (AIR ENTRAINED 4000 PSI, 3/4", 610)

SUBBASE: 12" GRAVEL BORROW (TYPE B)

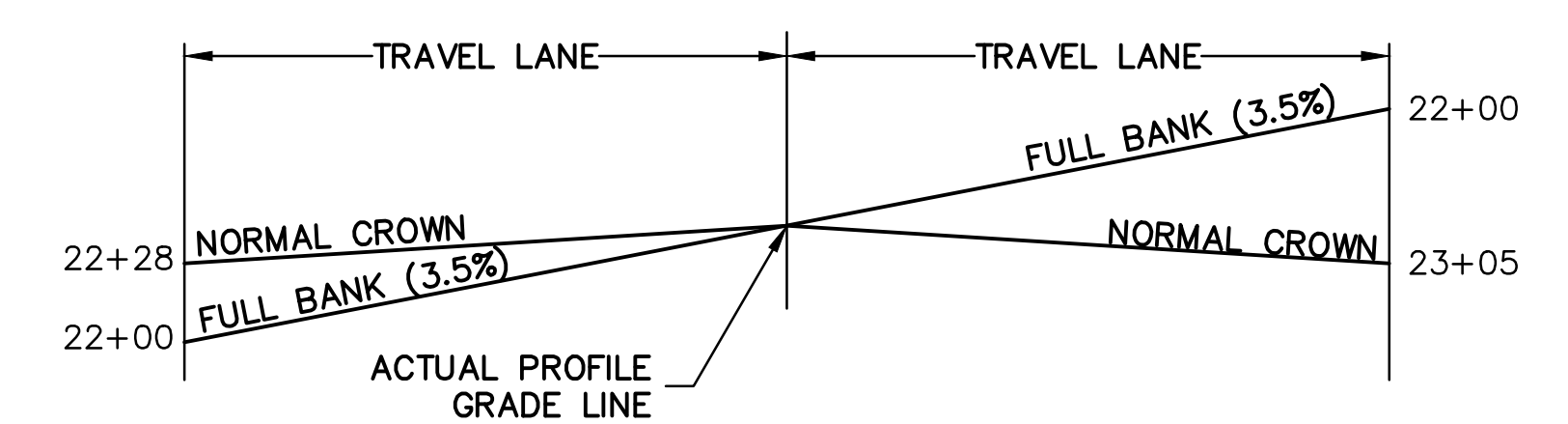


* SEE CONSTRUCTION PLANS FOR CURB TYPE AND LIMITS



* SEE CONSTRUCTION PLANS FOR CURB TYPE AND LIMITS

(** SUPERELEVATION TRANSITION AREA FROM BEGINNING OF PROJECT TO STA. 23+05
NORMAL CROWN STARTS AT 23+05)



METHOD OF BANKING
N.T.S.

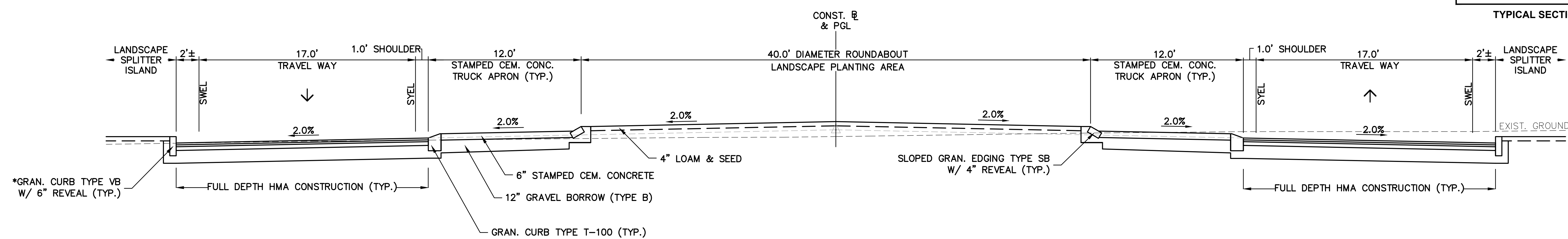
- NOTE:
- THE SECTIONS OF PROPOSED ROADWAY NOT COVERED IN THE RANGE OF STATIONS ASSOCIATED WITH THE TYPICAL SECTIONS ARE EITHER AT THE ROUNDABOUT OR ARE IN AREAS OF TRANSITION AND THEREFORE HAVE NOT BEEN SHOWN.
 - THE FINAL COURSE OF HOT MIX ASPHALT SURFACE COURSE MATERIAL SHALL BE PLACED IN ONE CONTINUOUS LIFT.

IN CHARGE OF: JMD
 DRAWN BY: MDK
 CHECKED BY: GJH/JMD

OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

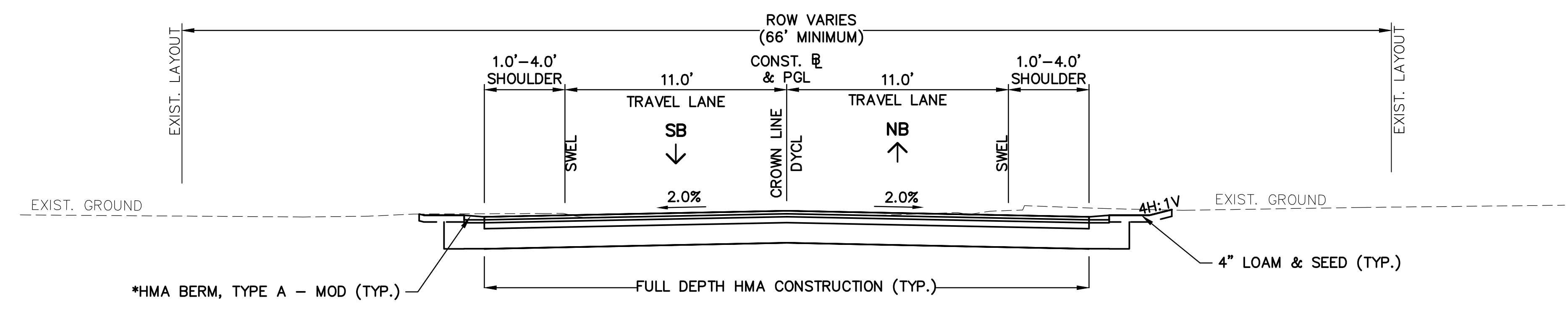
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		4	31
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TYPICAL SECTIONS



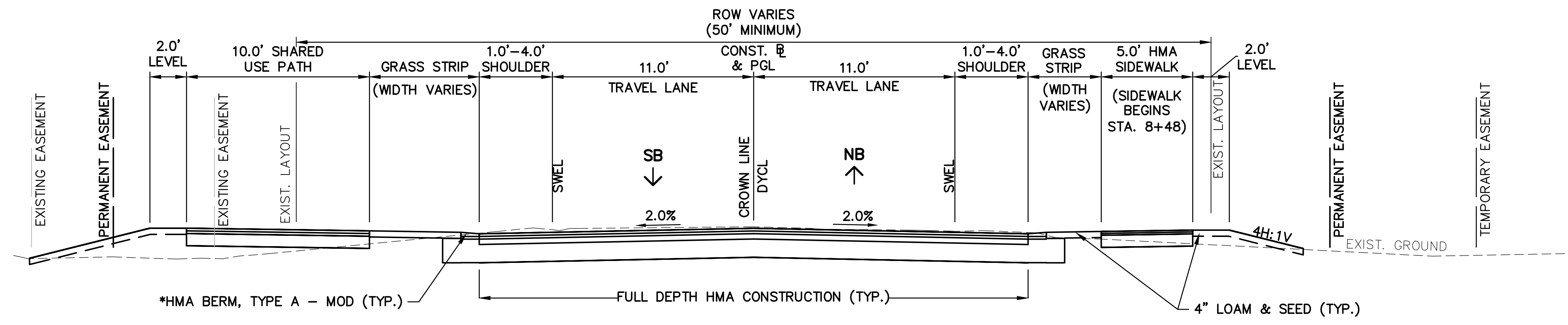
TYPICAL SECTION - ROUNDABOUT
STA. 25+26.91 EDGARTOWN-VINEYARD HAVEN ROAD =
STA. 10+00.00 AIRPORT ROAD & BARNES ROAD

* SEE CONSTRUCTION PLANS FOR CURB TYPE AND LIMITS



TYPICAL SECTION - BARNES ROAD
STA. 11+03 TO STA. 13+06.50

* SEE CONSTRUCTION PLANS FOR CURB TYPE AND LIMITS



TYPICAL SECTION - AIRPORT ROAD
STA. 7+50 TO STA. 8+97

* SEE CONSTRUCTION PLANS FOR CURB TYPE AND LIMITS

NOTE:

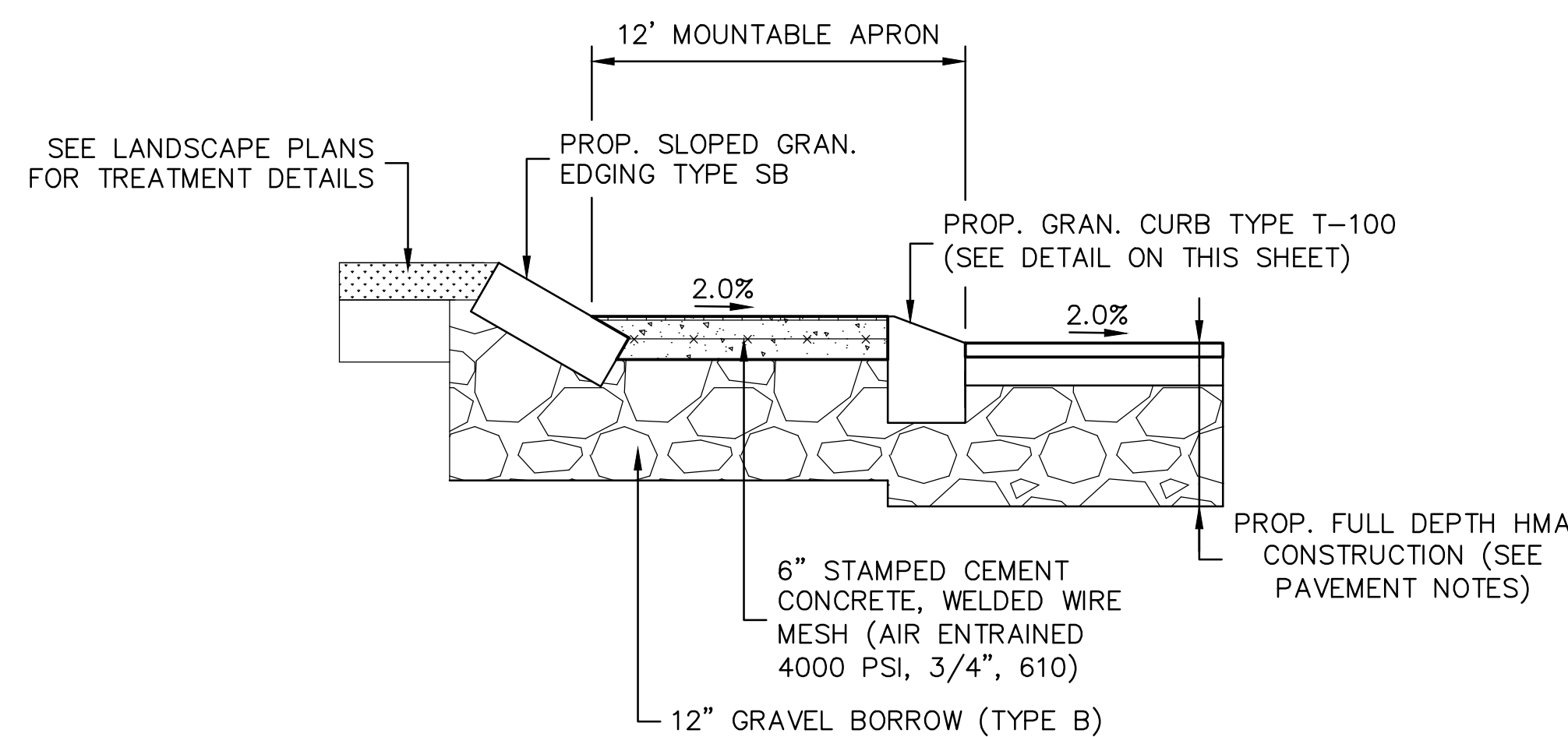
- THE SECTIONS OF PROPOSED ROADWAY NOT COVERED IN THE RANGE OF STATIONS ASSOCIATED WITH THE TYPICAL SECTIONS ARE EITHER AT THE ROUNDABOUT OR ARE IN AREAS OF TRANSITION AND THEREFORE HAVE NOT BEEN SHOWN.
- THE FINAL COURSE OF HOT MIX ASPHALT SURFACE COURSE MATERIAL SHALL BE PLACED IN ONE CONTINUOUS LIFT.

IN CHARGE OF: JMD
 DRAWN BY: MDK
 CHECKED BY: GJH/JMD

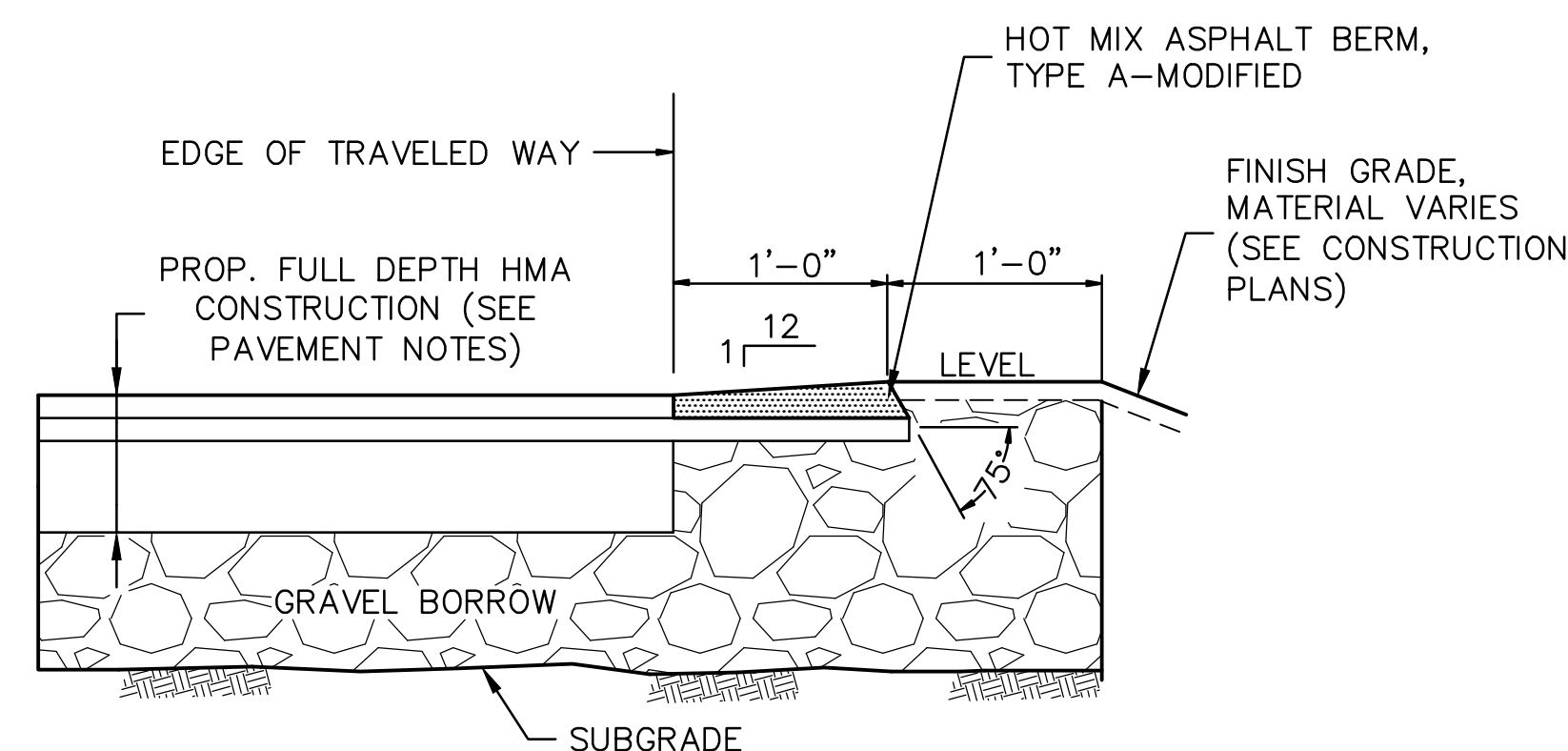
**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		5	31
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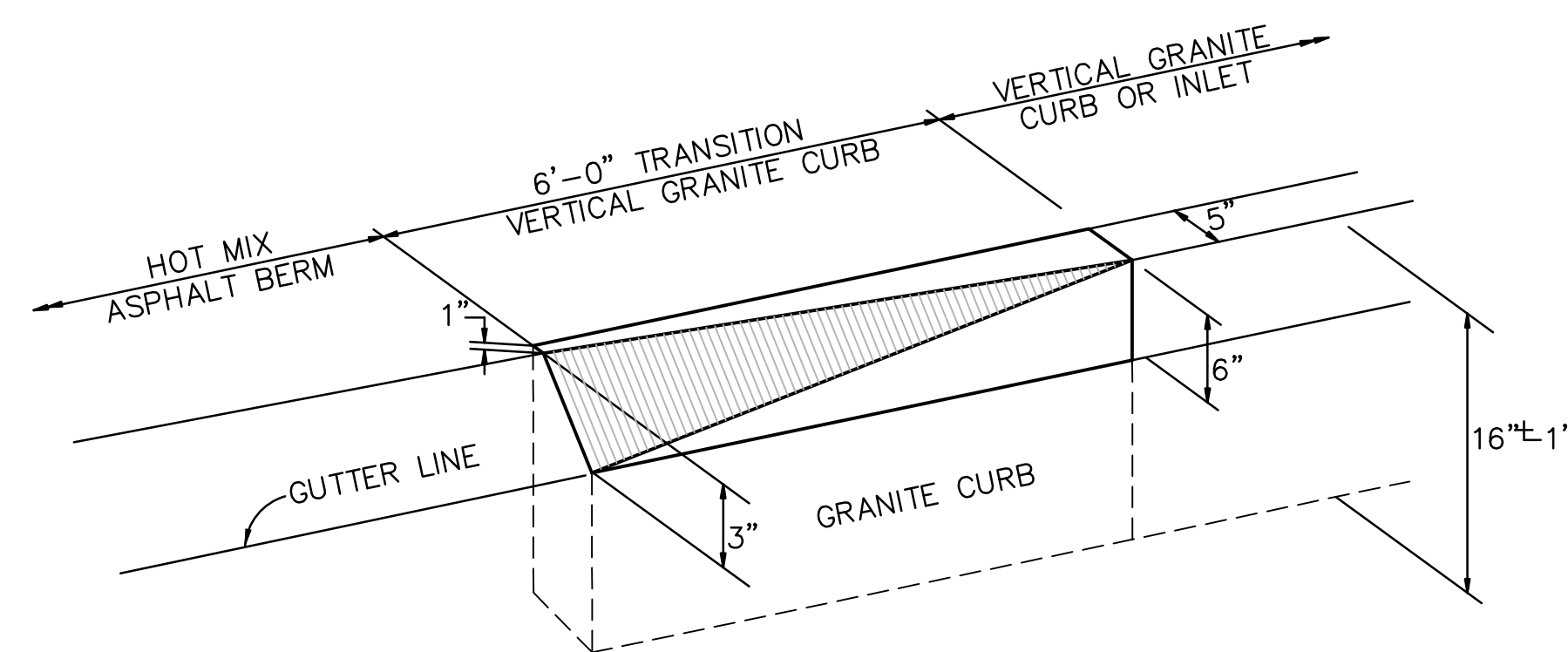
CONSTRUCTION DETAILS



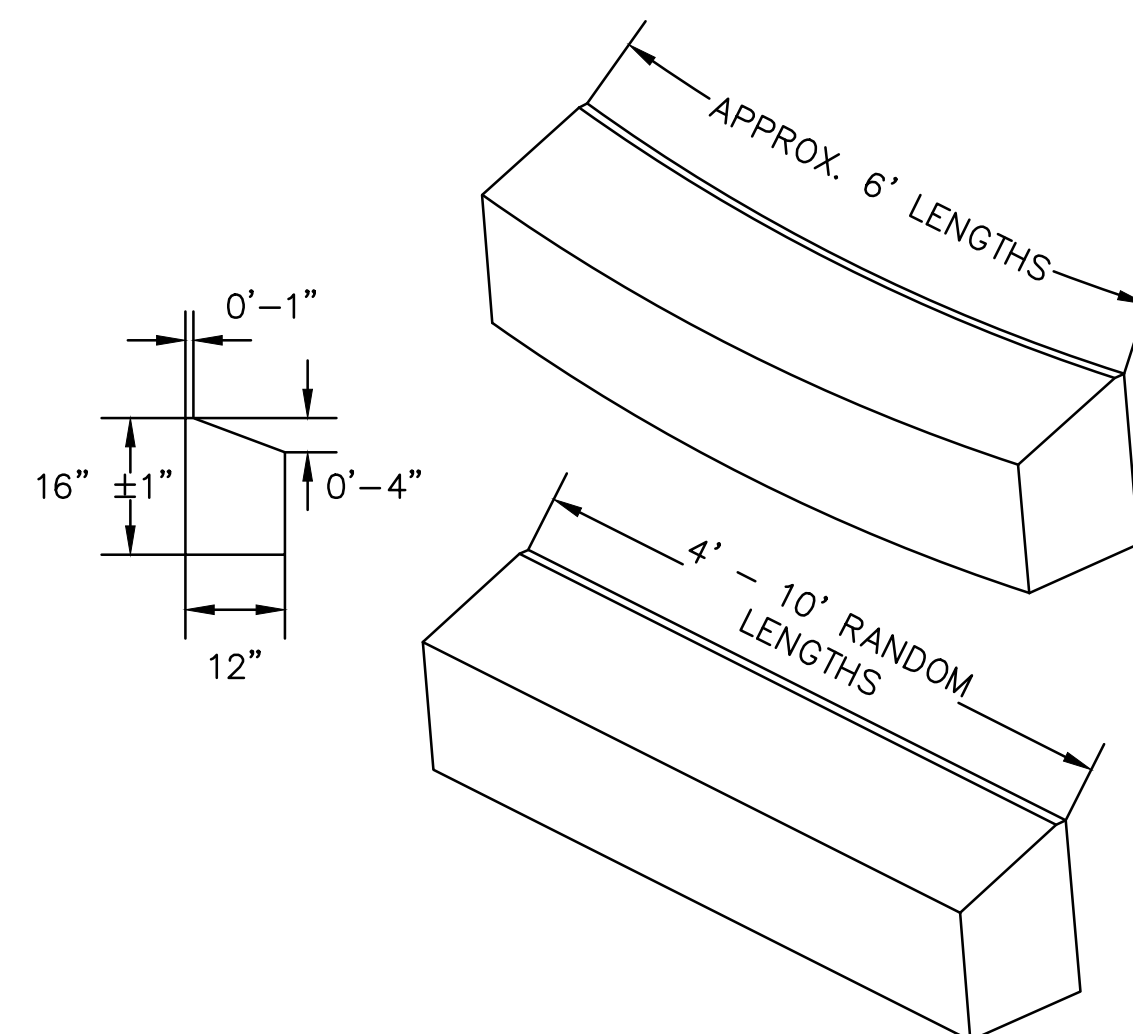
STAMPED CEMENT CONCRETE TRUCK APRON
NOT TO SCALE



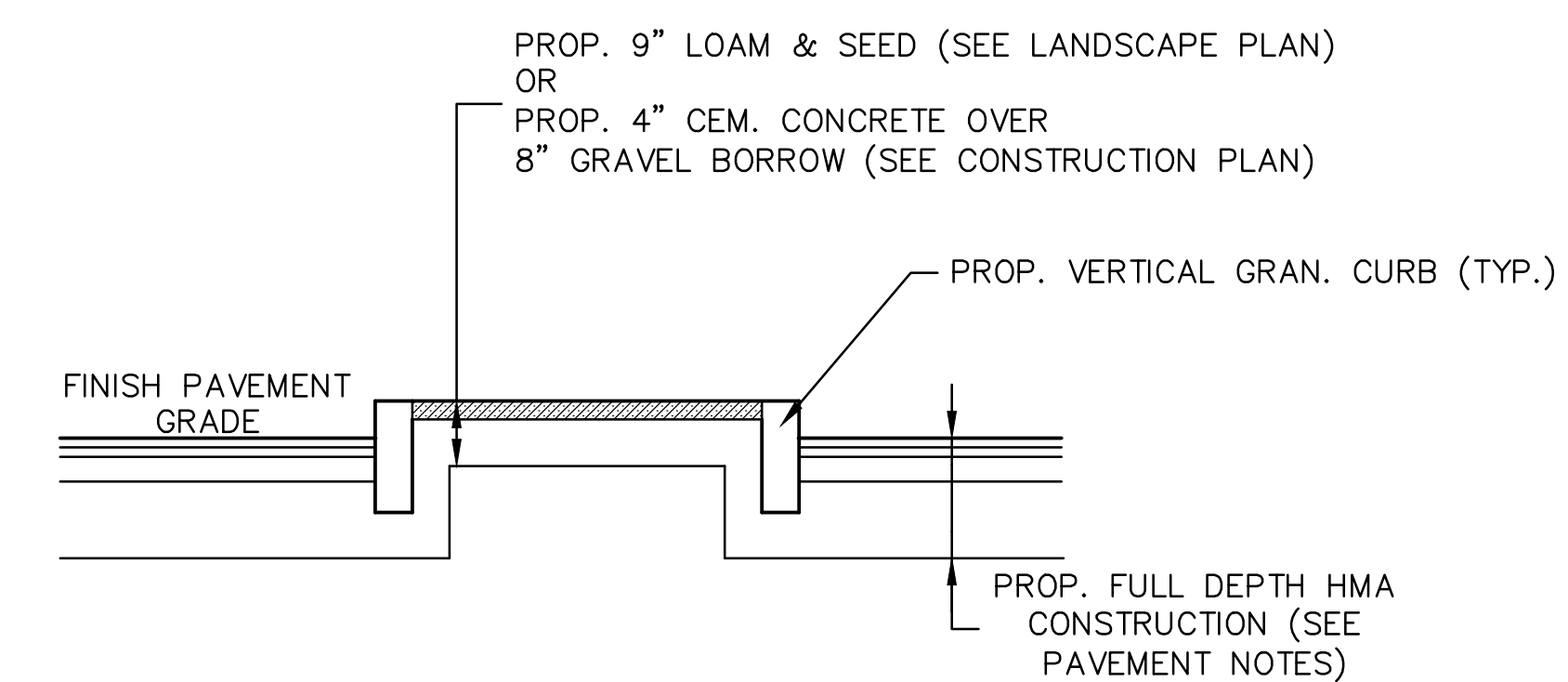
HOT MIX ASPHALT BERM, TYPE A-MODIFIED
NOT TO SCALE



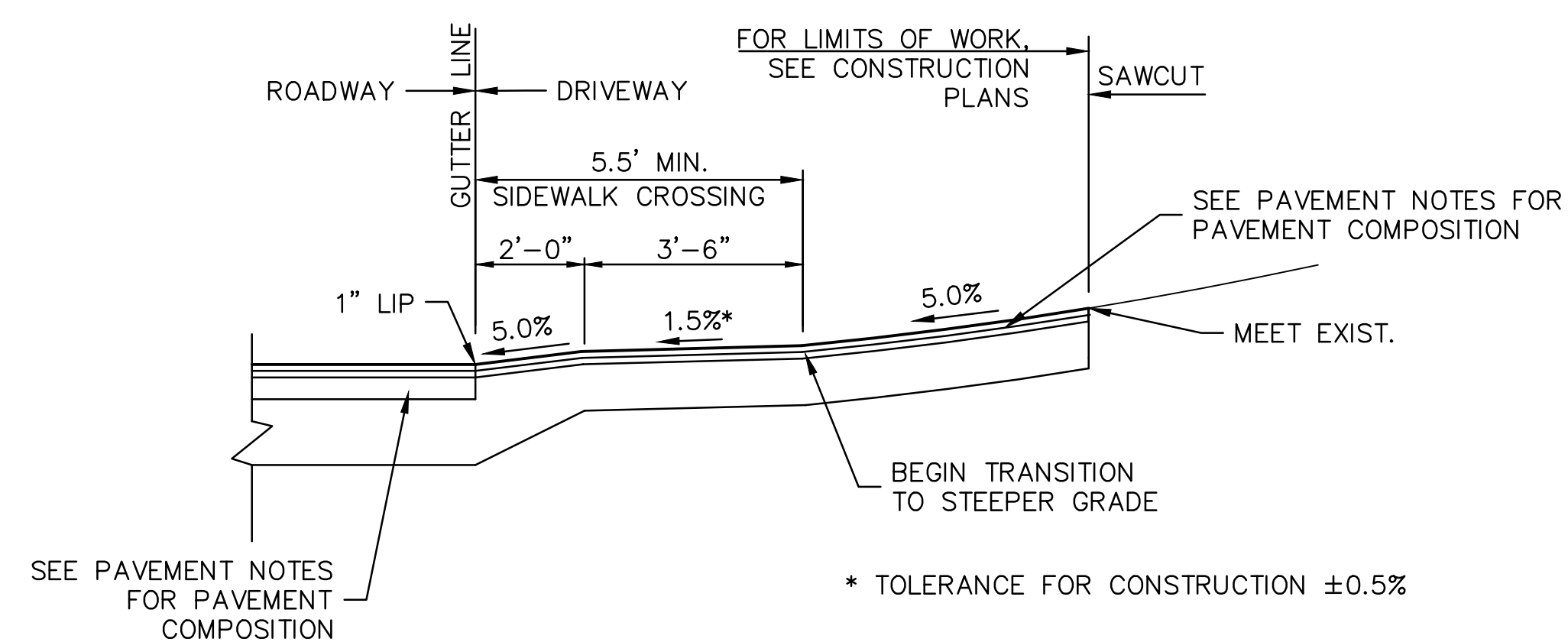
GRANITE CURB TYPE VB - SPLAYED END
NOT TO SCALE



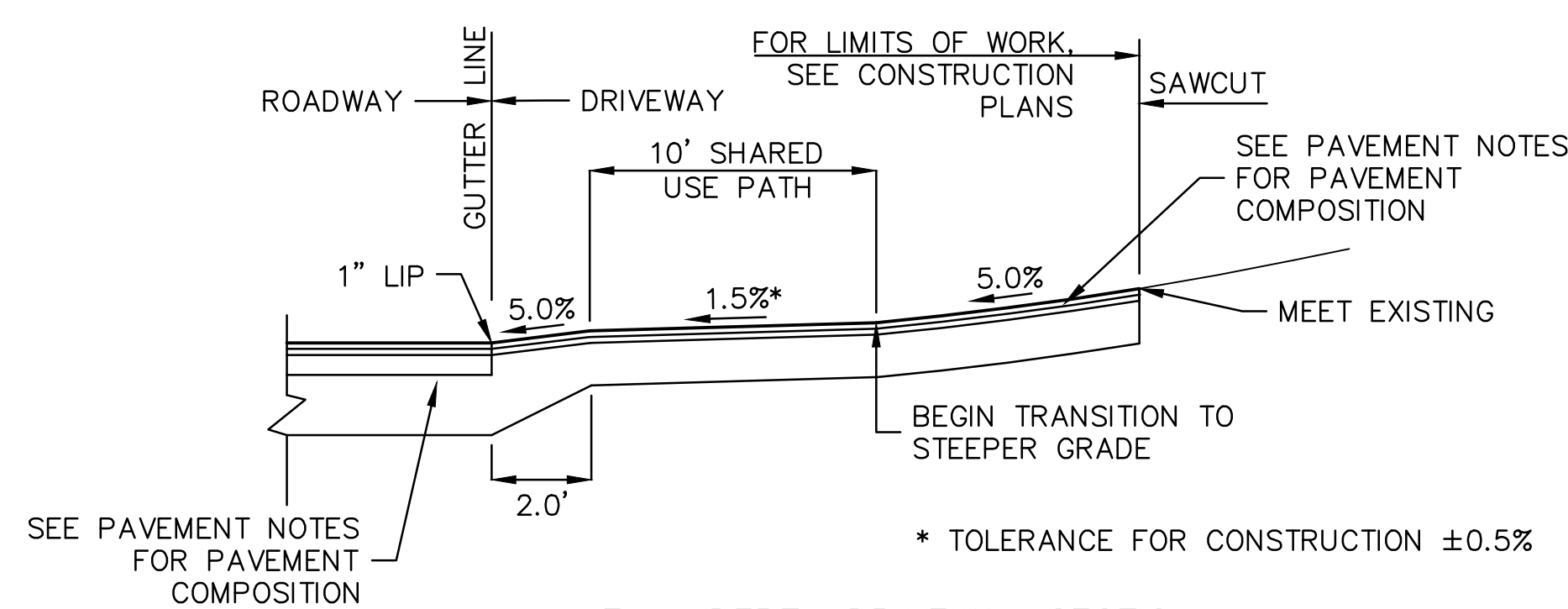
**GRANITE CURB TYPE T-100
(TRAVERSABLE FOR ROUNDABOUT TRUCK APRONS)**
NOT TO SCALE



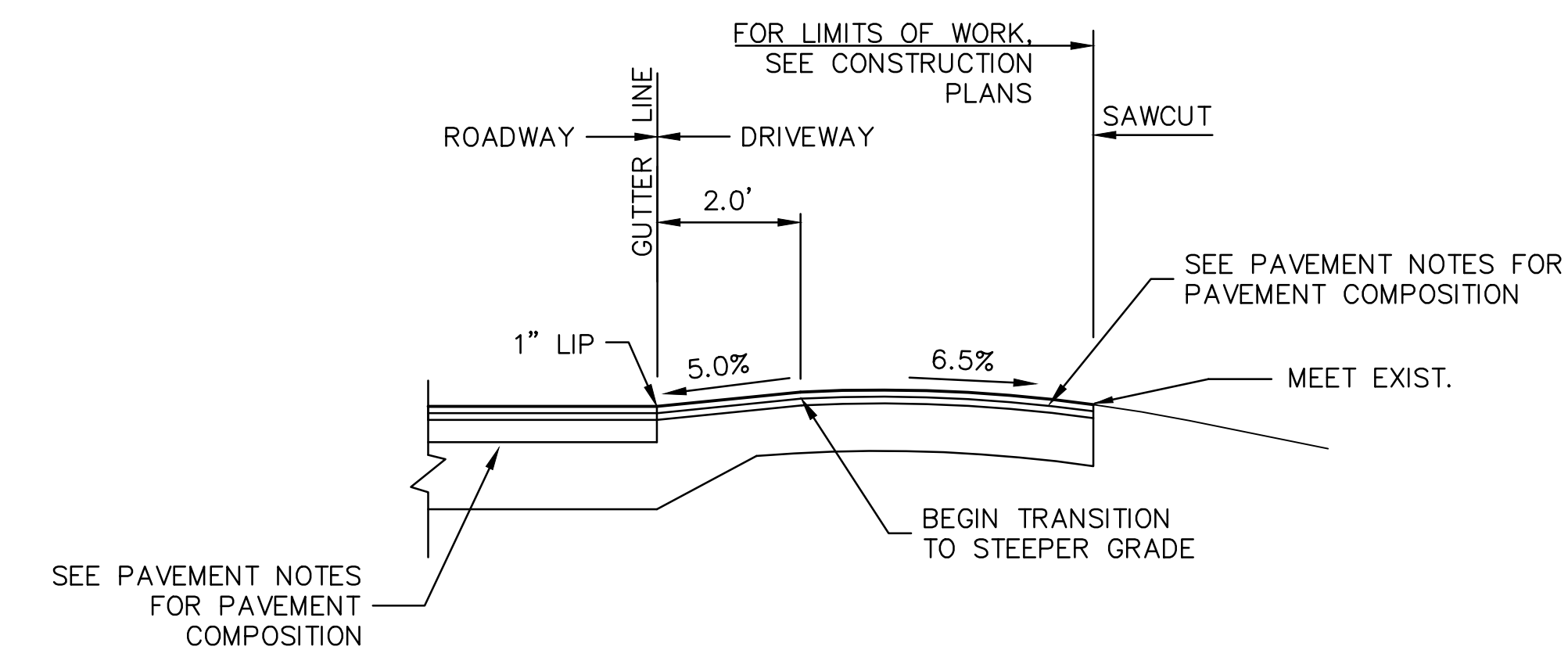
SPLITTER ISLAND (VERTICAL CURB)
NOT TO SCALE



FULL DEPTH DRIVEWAY SECTION
STA. 26+50 LT
NOT TO SCALE



FULL DEPTH DRIVEWAY SECTION
STA. 28+20 RT
NOT TO SCALE



FULL DEPTH DRIVEWAY SECTION
STA. 7+78 RT
NOT TO SCALE

IN CHARGE OF: JMD
DRAWN BY: MDK
CHECKED BY: GJH/JMD

HIGHWAY GUARD DETAILS
NONE

DRAINAGE DETAILS
SEE SHEET 13

WATER SUPPLY ALTERATIONS
SEE SHEET 13

TRAFFIC SIGNAL CONDUIT
NONE

OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		6	31

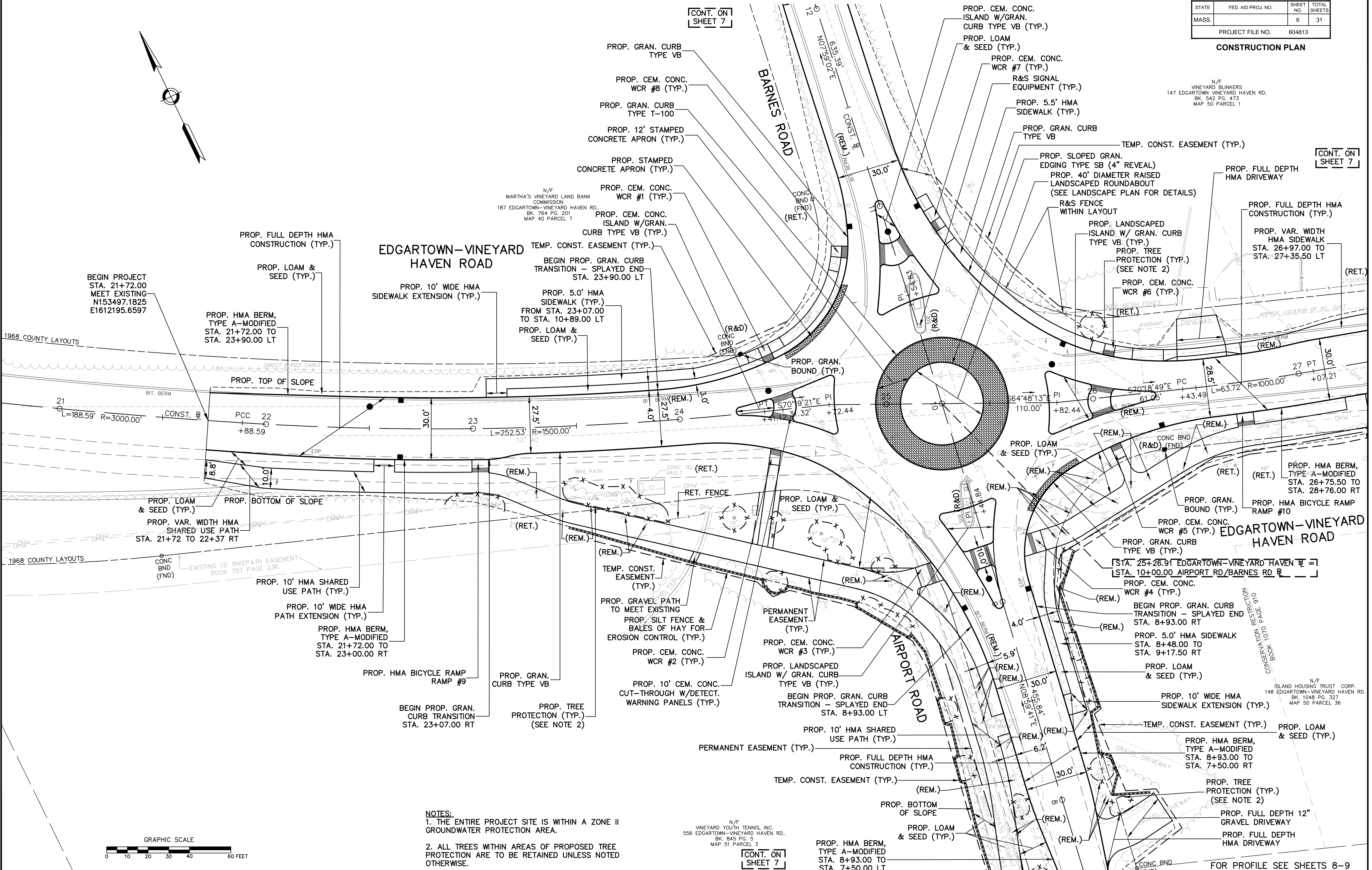
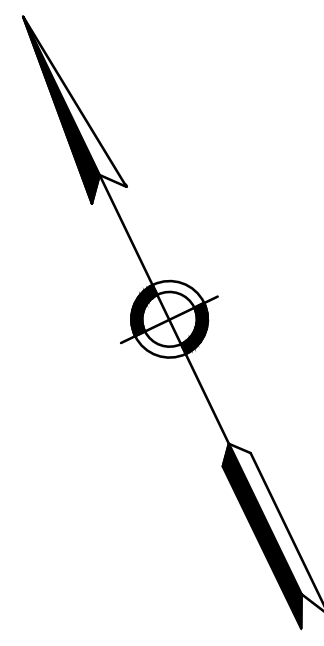
PROJECT FILE NO. 604813

CONSTRUCTION PLAN

N/F
VINEYARD BLINKERS
147 EDGARTOWN VINEYARD HAVEN RD.
BK. 542 PG. 473
MAP 50 PARCEL 1

CONT. ON
SHEET 7

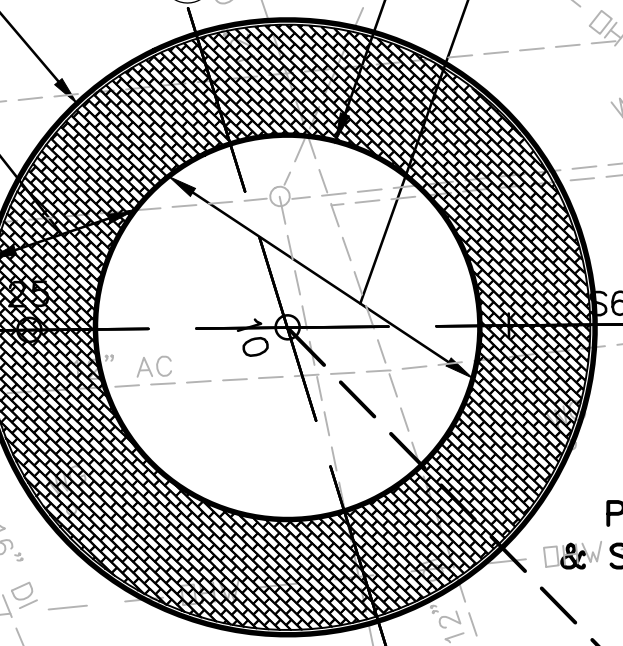
CONT. ON
SHEET 7



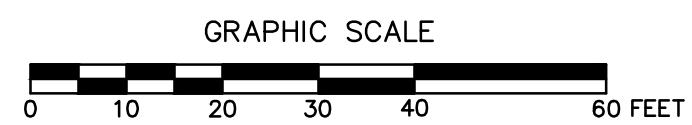
BEGIN PROJECT
STA. 21+72.00
MEET EXISTING
N153497.1825
E1612195.6597

EDGARTOWN-VINEYARD
HAVEN ROAD

EDGARTOWN-VINEYARD
HAVEN ROAD



- NOTES:
- THE ENTIRE PROJECT SITE IS WITHIN A ZONE II GROUNDWATER PROTECTION AREA.
 - ALL TREES WITHIN AREAS OF PROPOSED TREE PROTECTION ARE TO BE RETAINED UNLESS NOTED OTHERWISE.



IN CHARGE OF
DRAWN BY
CHECKED BY

N/F
VINEYARD YOUTH TENNIS, INC.
556 EDGARTOWN-VINEYARD HAVEN RD.
BK. 845 PG. 5
MAP 51 PARCEL 3

CONT. ON
SHEET 7

N/F
ISLAND HOUSING TRUST CORP.
148 EDGARTOWN-VINEYARD HAVEN RD.
BK. 1048 PG. 327
MAP 50 PARCEL 36

FOR PROFILE SEE SHEETS 8-9

HIGHWAY GUARD DETAILS
NONE

DRAINAGE DETAILS
SEE SHEET 14

WATER SUPPLY ALTERATIONS
SEE SHEET 14

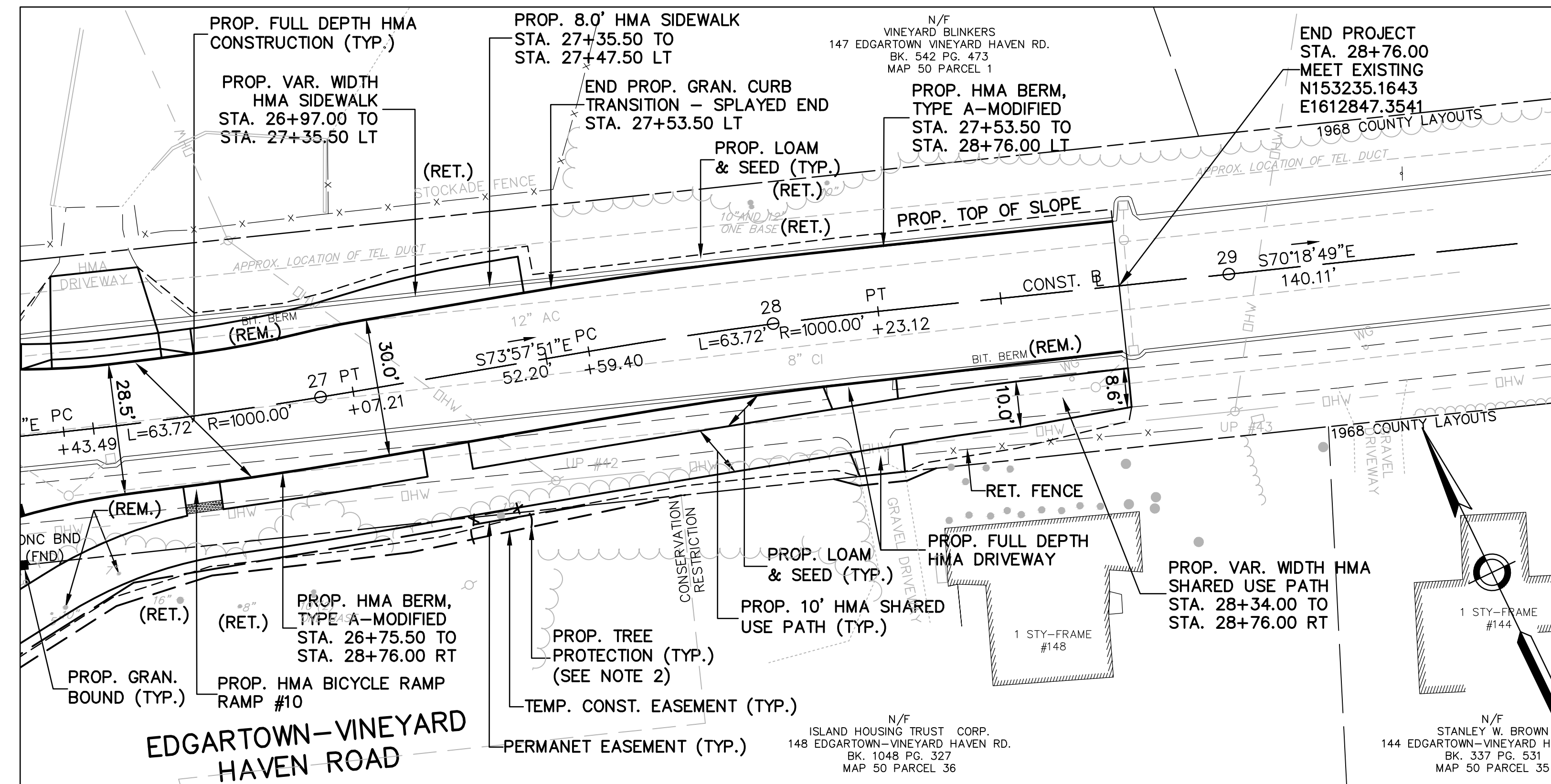
TRAFFIC SIGNAL CONDUIT
NONE

OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		7	31

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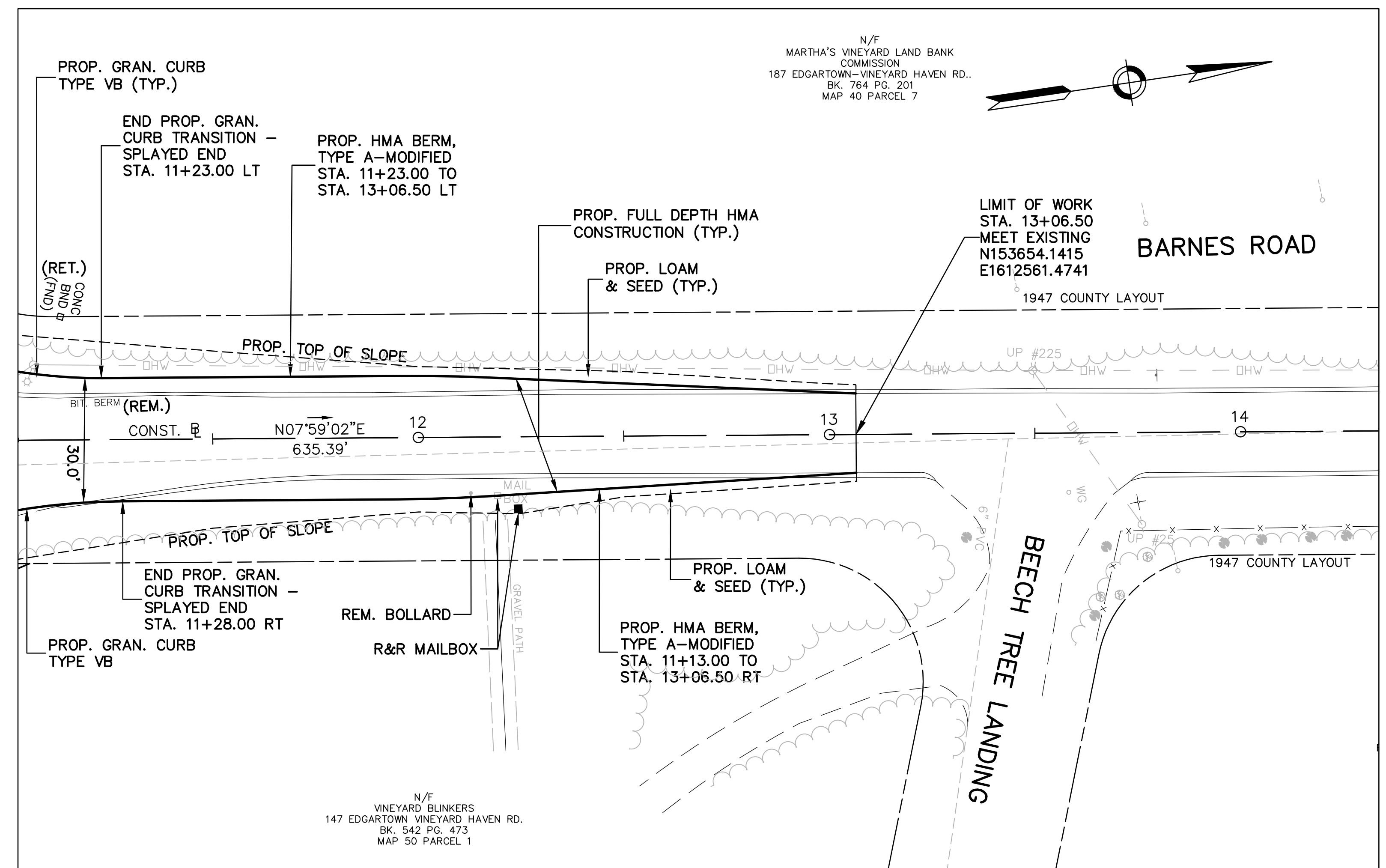
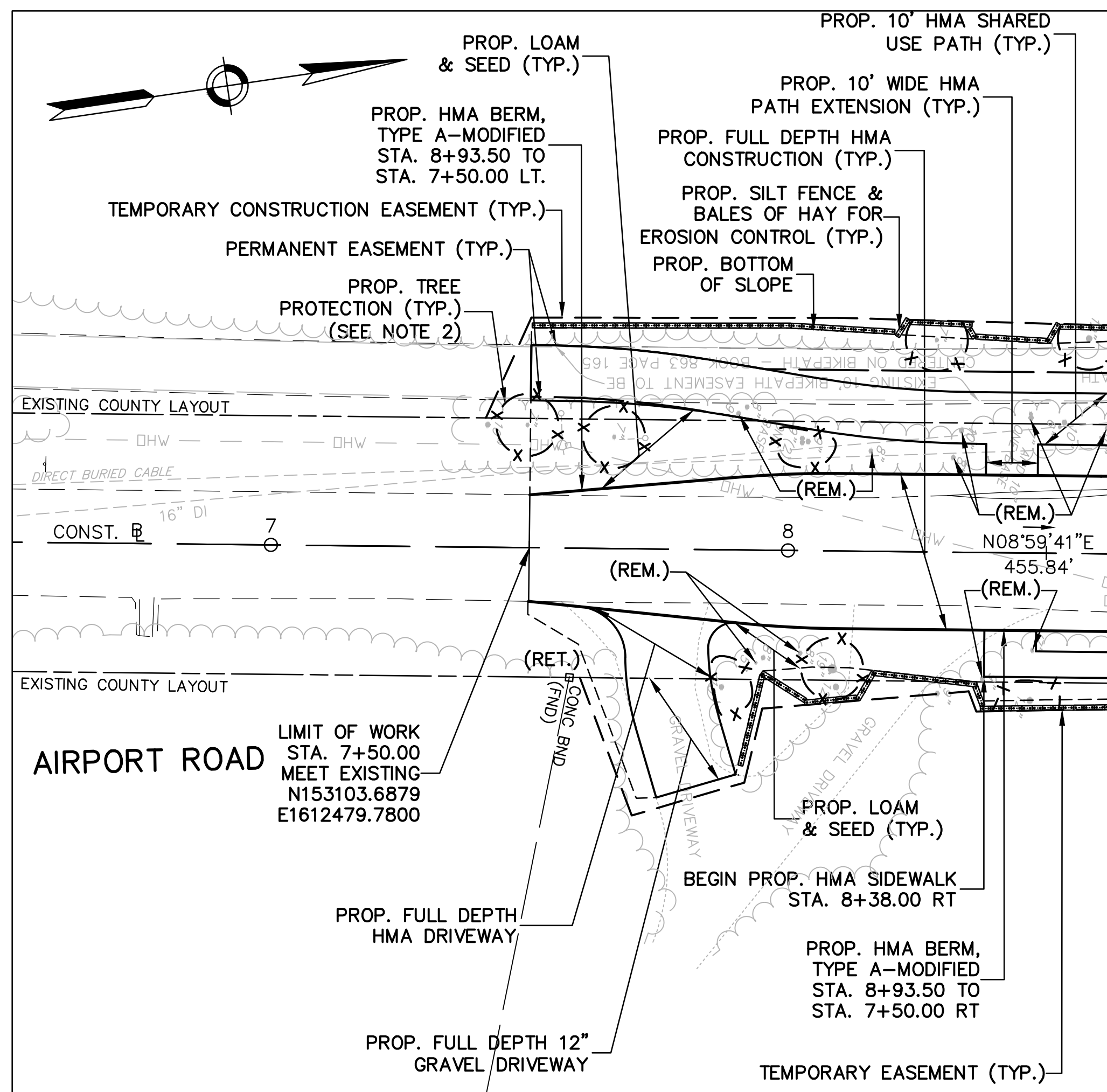
CONSTRUCTION PLAN



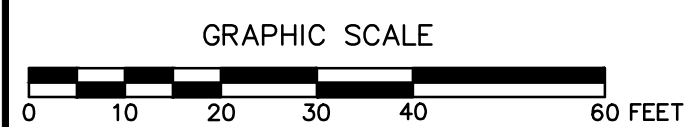
- NOTES:
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 2. ALL TREES WITHIN AREAS OF PROPOSED TREE PROTECTION ARE TO BE RETAINED UNLESS NOTED OTHERWISE.

CONT. ON
SHEET 6

EDGARTOWN-VINEYARD HAVEN ROAD



IN CHARGE OF: JMD
 DRAWN BY: JFO
 CHECKED BY: GJH/JMD

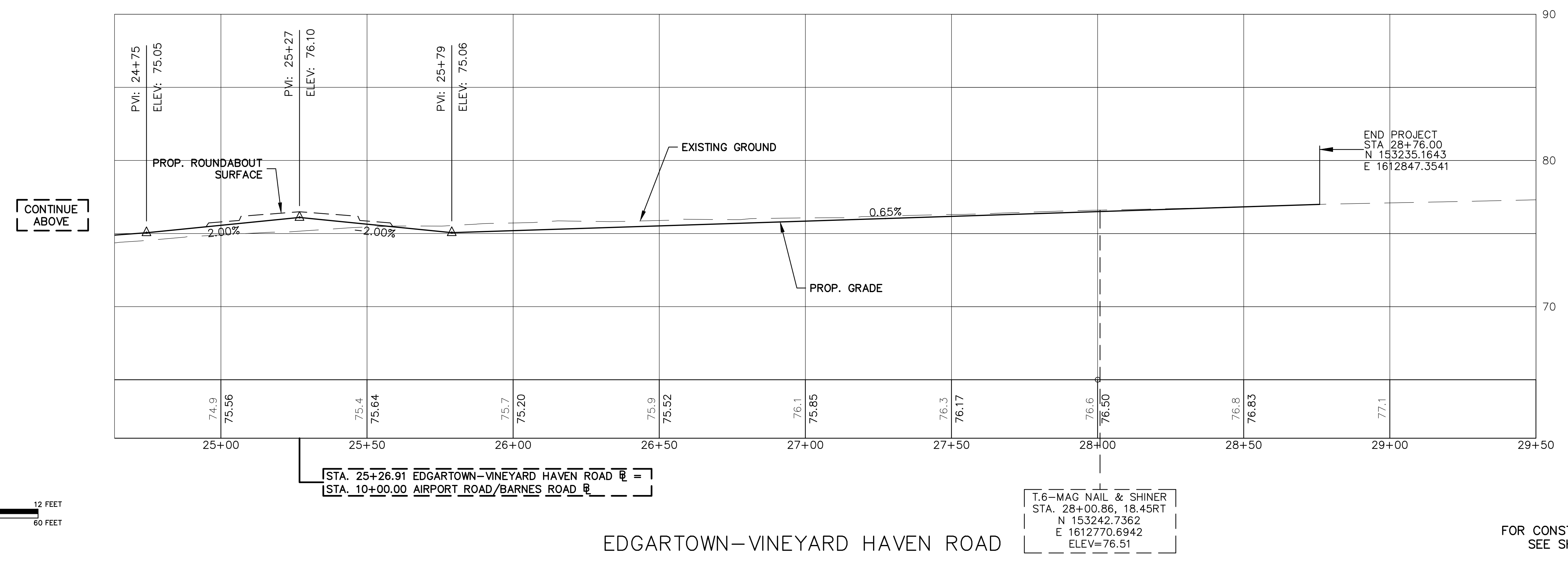
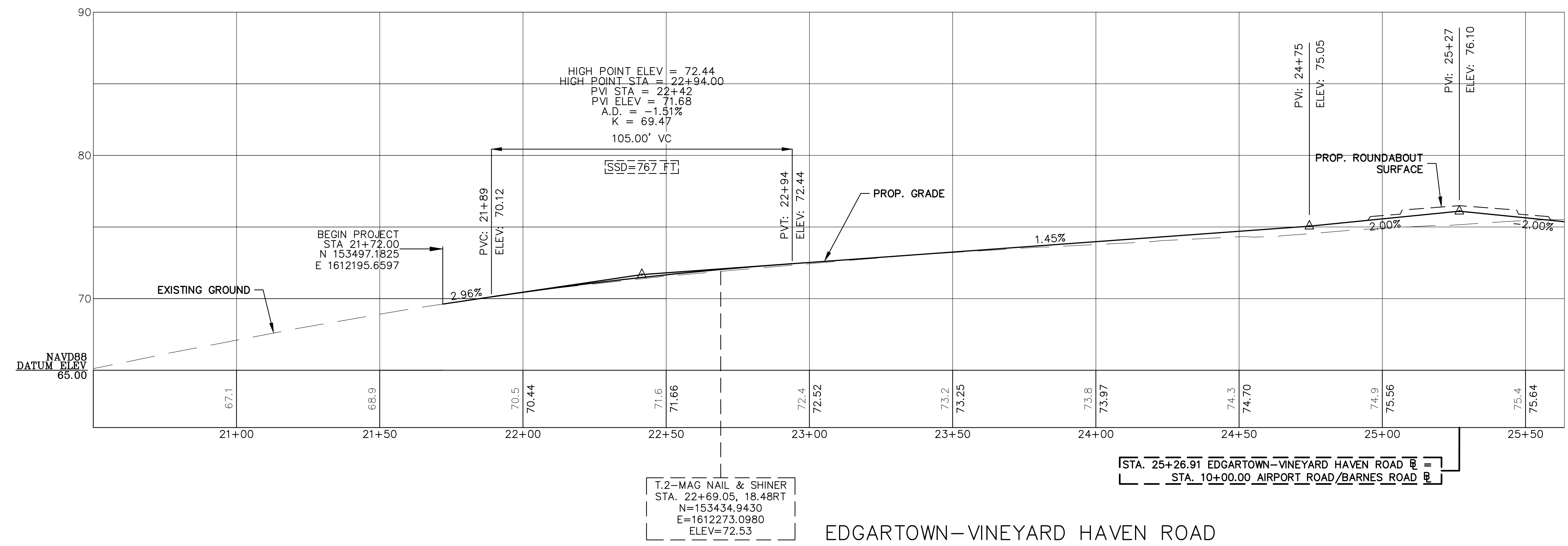


FOR PROFILE SEE SHEETS 8-9

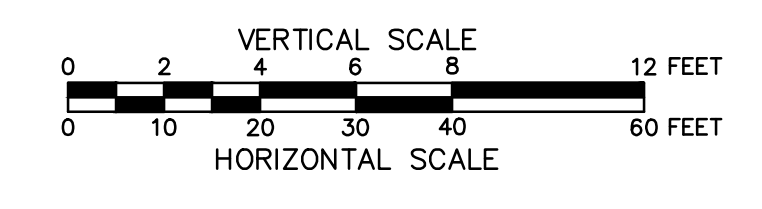
OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

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CONSTRUCTION PROFILE
EDGARTOWN-VINEYARD HAVEN ROAD



IN CHARGE OF: JMD
DRAWN BY: JFO
CHECKED BY: G.H./JMD

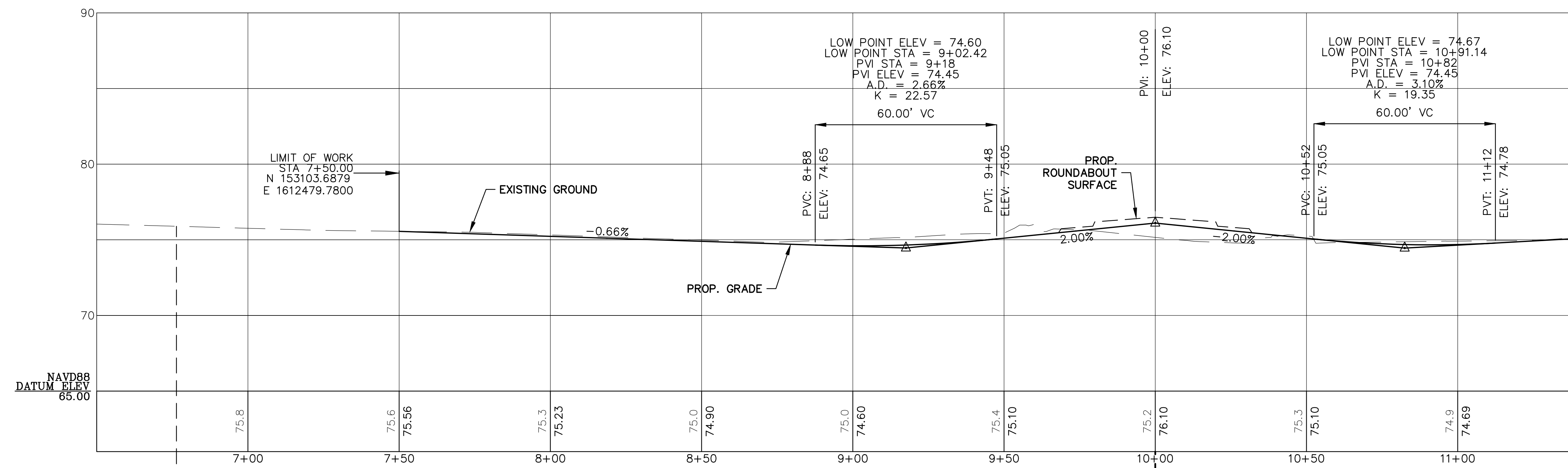


FOR CONSTRUCTION PLAN
SEE SHEETS 6-7

OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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CONSTRUCTION PROFILE
AIRPORT ROAD & BARNES ROAD



LIMIT OF WORK
STA 7+50.00
N 153103.6879
E 1612479.7800

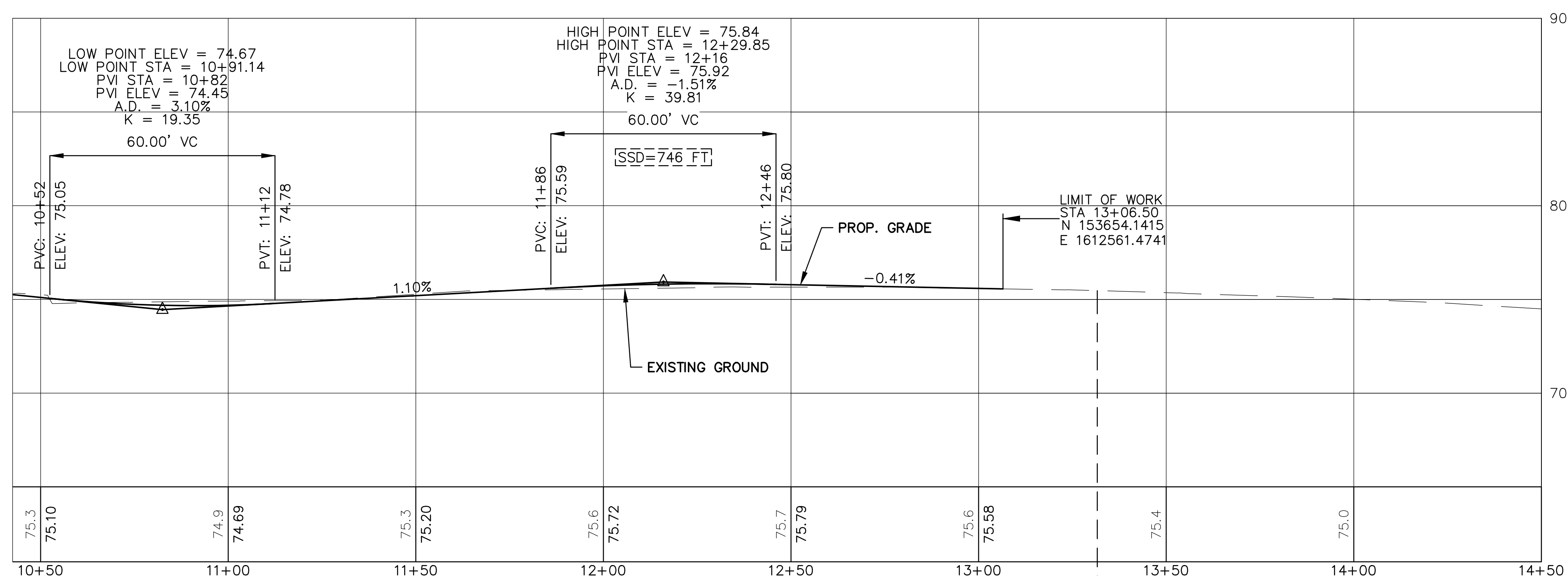
NAVD88
DATUM ELEV
65.00

T.4-MAG NAIL & SHINER
STA. 06+76.37, 11.51RT
N=153029.1592
E=1612479.6374
ELEV=75.83

STA. 25+26.91 EDGARTOWN-VINEYARD HAVEN ROAD
STA. 10+00.00 AIRPORT ROAD/BARNES ROAD

AIRPORT ROAD & BARNES ROAD

CONTINUE
BELOW



CONTINUE
ABOVE

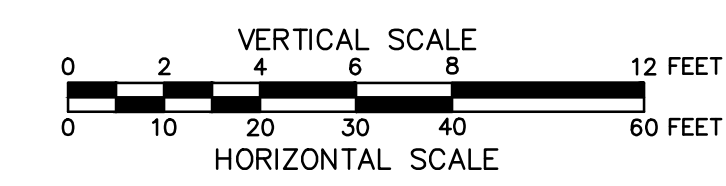
LIMIT OF WORK
STA 13+06.50
N 153654.1415
E 1612561.4741

T.3-MAG NAIL & SHINER
STA. 13+31.64, 13.89RT
N=153677.1120
E=1612578.7201
ELEV=75.34

AIRPORT ROAD & BARNES ROAD

FOR CONSTRUCTION PLAN
SEE SHEETS 6-7

IN CHARGE OF: JMD
DRAWN BY: JFO
CHECKED BY: G.H./JMD



CONSTRUCTION BASELINE - EDGARTOWN-VINEYARD HAVEN
CONSTRUCTION BASELINE - AIRPORT ROAD - BARNES ROAD

ID	START	END	TANGENT/CURVE DATA
C1	STA.=20+00.00 N=153586.4833 E=1612048.6859	STA.=21+88.59 N=153489.0169 E=1612210.1031	R=3000.00', Δ=003°36'07" L=188.59', T=94.33'
C2	STA.=21+88.59 N=153489.0169 E=1612210.1031	STA.=24+41.12 N=153384.4174 E=1612439.6213	R=1500.00', Δ=009°38'45" L=252.53', T=126.56'
L1	STA.=24+41.12 N=153384.4174 E=1612439.6213	STA.=24+72.44 N=153373.8696 E=1612469.1166	L=31.32' S70°19'21"E
L2	STA.=24+72.44 N=153373.8696 E=1612469.1166	STA.=25+82.44 N=153327.0400 E=1612568.6505	L=110.00' S64°48'13"E
L3	STA.=25+82.44 N=153327.0400 E=1612568.6505	STA.=26+43.49 N=153306.4743 E=1612626.1315	L=61.05' S70°18'49"E
C3	STA.=26+43.49 N=153306.4743 E=1612626.1315	STA.=27+07.21 N=153286.9355 E=1612686.7655	R=1000.00', Δ=003°39'02" L=63.72', T=31.87'
C4	STA.=27+07.21 N=153286.9355 E=1612686.7655	STA.=28+23.12 N=153252.9780 E=1612797.5651	R=1000.00', Δ=003°39'02" L=63.72', T=31.87'
L5	STA.=28+23.12 N=153252.9780 E=1612797.5651	STA.=29+63.23 N=153205.7789 E=1612929.4857	L=140.11' S70°18'49"E

CONSTRUCTION BASELINE - EDGARTOWN-VINEYARD HAVEN
CONSTRUCTION BASELINE - AIRPORT ROAD - BARNES ROAD

ID	START	END	TANGENT/CURVE DATA
L4	STA.=27+07.21 N=153286.9355 E=1612686.7655	STA.=27+59.40 N=153272.5168 E=1612736.9311	L=52.20' S73°57'51"E
L6	STA.=4+89.00 N=152845.8975 E=1612438.9742	STA.=9+44.84 N=153296.1287 E=1612510.2415	L=455.84' N08°59'41"E
L7	STA.=9+44.84 N=153296.1287 E=1612510.2415	STA.=10+54.83 N=153404.9130 E=1612526.5187	L=110.00' N08°30'36"E
L8	STA.=10+54.83 N=153404.9130 E=1612526.5187	STA.=16+90.22 N=154034.1430 E=1612614.7710	L=635.39' N07°59'02"E

SURVEY TRAVERSE DATA

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
T.1	74.88	153326.5723	1612473.4011	MN SET
T.2	72.53	153434.9430	1612273.0980	MN SET
T.3	75.34	153677.1120	1612578.7201	MN SET
T.4	75.83	153029.1592	1612479.6374	MN SET
T.6	76.85	153242.7362	1612770.6942	MN SET
T.7	77.40	153194.8122	1612896.1819	MN SET

CONT. ON SHEET 11

OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

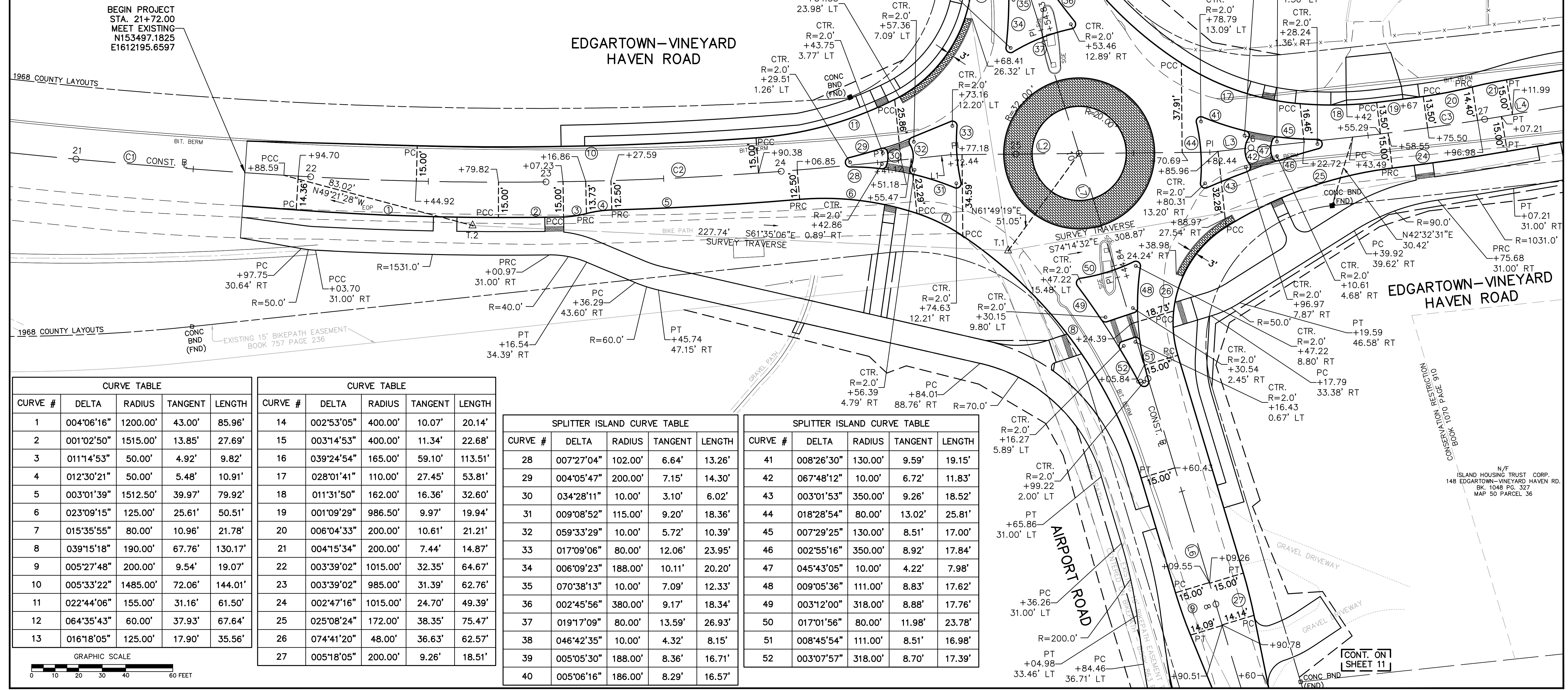
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		10	31

PROJECT FILE NO. 604813

CURB TIE PLAN

N/F VINEYARD BLINKERS
147 EDGARTOWN VINEYARD HAVEN RD.
BK. 542 PG. 473
MAP 50 PARCEL 1

CONT. ON SHEET 11



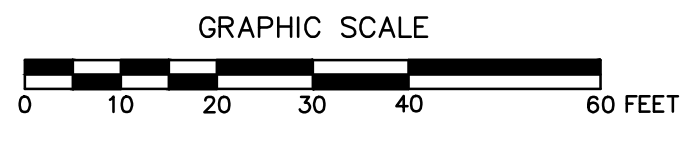
CURVE TABLE				
CURVE #	DELTA	RADIUS	TANGENT	LENGTH
1	004°06'16"	1200.00'	43.00'	85.96'
2	001°02'50"	1515.00'	13.85'	27.69'
3	011°14'53"	50.00'	4.92'	9.82'
4	012°30'21"	50.00'	5.48'	10.91'
5	003°01'39"	1512.50'	39.97'	79.92'
6	023°09'15"	125.00'	25.61'	50.51'
7	015°35'55"	80.00'	10.96'	21.78'
8	039°15'18"	190.00'	67.76'	130.17'
9	005°27'48"	200.00'	9.54'	19.07'
10	005°33'22"	1485.00'	72.06'	144.01'
11	022°44'06"	155.00'	31.16'	61.50'
12	064°35'43"	60.00'	37.93'	67.64'
13	016°18'05"	125.00'	17.90'	35.56'

CURVE TABLE				
CURVE #	DELTA	RADIUS	TANGENT	LENGTH
14	002°53'05"	400.00'	10.07'	20.14'
15	003°14'53"	400.00'	11.34'	22.68'
16	039°24'54"	165.00'	59.10'	113.51'
17	028°01'41"	110.00'	27.45'	53.81'
18	011°31'50"	162.00'	16.36'	32.60'
19	001°09'29"	986.50'	9.97'	19.94'
20	006°04'33"	200.00'	10.61'	21.21'
21	004°15'34"	200.00'	7.44'	14.87'
22	003°39'02"	1015.00'	32.35'	64.67'
23	003°39'02"	985.00'	31.39'	62.76'
24	002°47'16"	1015.00'	24.70'	49.39'
25	025°08'24"	172.00'	38.35'	75.47'
26	074°41'20"	48.00'	36.63'	62.57'
27	005°18'05"	200.00'	9.26'	18.51'

SPLITTER ISLAND CURVE TABLE				
CURVE #	DELTA	RADIUS	TANGENT	LENGTH
28	007°27'04"	102.00'	6.64'	13.26'
29	004°05'47"	200.00'	7.15'	14.30'
30	034°28'11"	10.00'	3.10'	6.02'
31	009°08'52"	115.00'	9.20'	18.36'
32	059°33'29"	10.00'	5.72'	10.39'
33	017°09'06"	80.00'	12.06'	23.95'
34	006°09'23"	188.00'	10.11'	20.20'
35	070°38'13"	10.00'	7.09'	12.33'
36	002°45'56"	380.00'	9.17'	18.34'
37	019°17'09"	80.00'	13.59'	26.93'
38	046°42'35"	10.00'	4.32'	8.15'
39	005°05'30"	188.00'	8.36'	16.71'
40	005°06'16"	186.00'	8.29'	16.57'

SPLITTER ISLAND CURVE TABLE				
CURVE #	DELTA	RADIUS	TANGENT	LENGTH
41	008°26'30"	130.00'	9.59'	19.15'
42	067°48'12"	10.00'	6.72'	11.83'
43	003°01'53"	350.00'	9.26'	18.52'
44	018°28'54"	80.00'	13.02'	25.81'
45	007°29'25"	130.00'	8.51'	17.00'
46	002°55'16"	350.00'	8.92'	17.84'
47	045°43'05"	10.00'	4.22'	7.98'
48	009°05'36"	111.00'	8.83'	17.62'
49	003°12'00"	318.00'	8.88'	17.76'
50	017°01'56"	80.00'	11.98'	23.78'
51	008°45'54"	111.00'	8.51'	16.98'
52	003°07'57"	318.00'	8.70'	17.39'

IN CHARGE OF: JMO
DRAWN BY: JFO
CHECKED BY: G.H./JMO



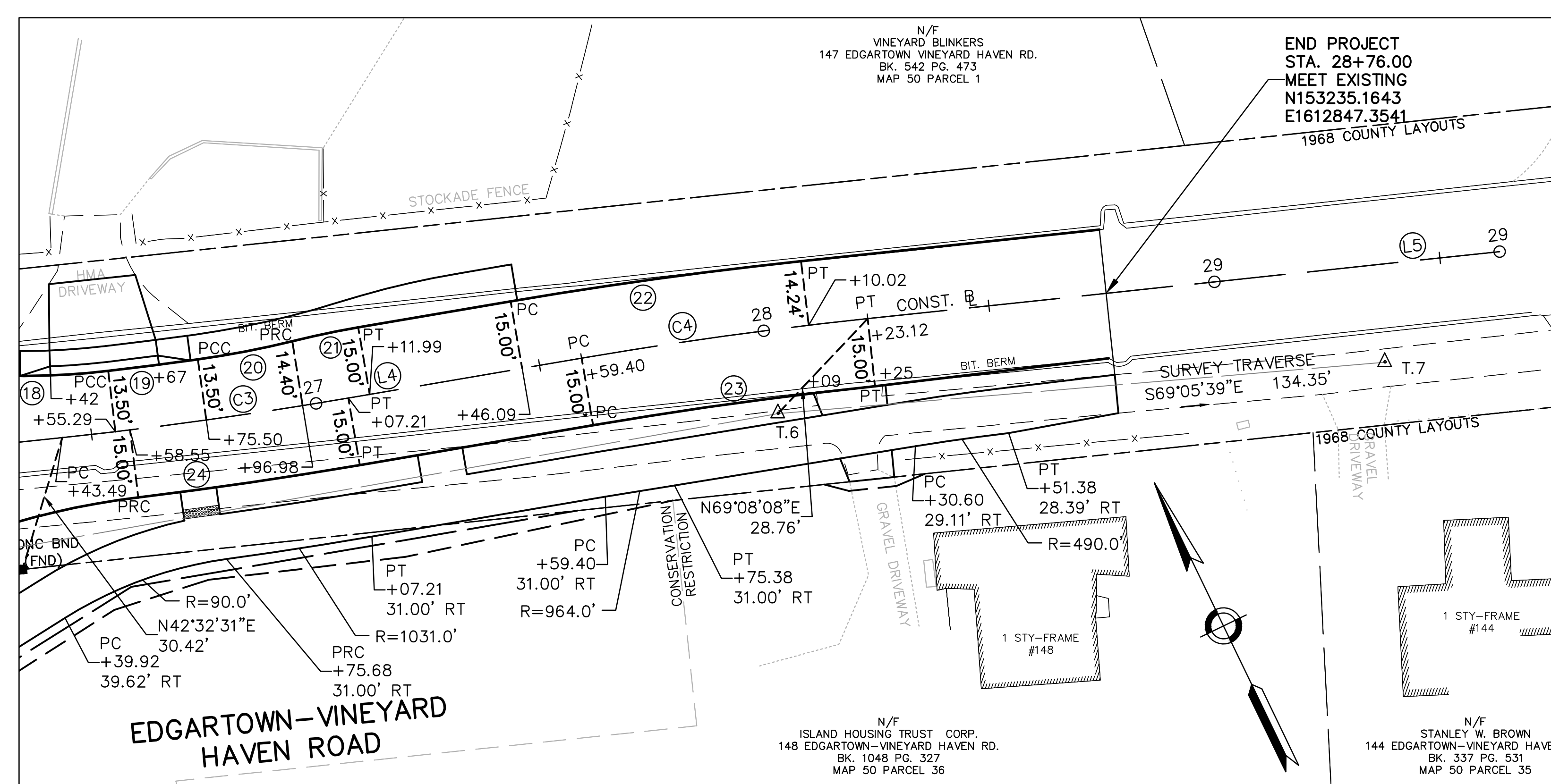
CONT. ON SHEET 11

N/F ISLAND HOUSING TRUST CORP.
148 EDGARTOWN-VINEYARD HAVEN RD.
BK. 1048 PG. 327
MAP 50 PARCEL 36

**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

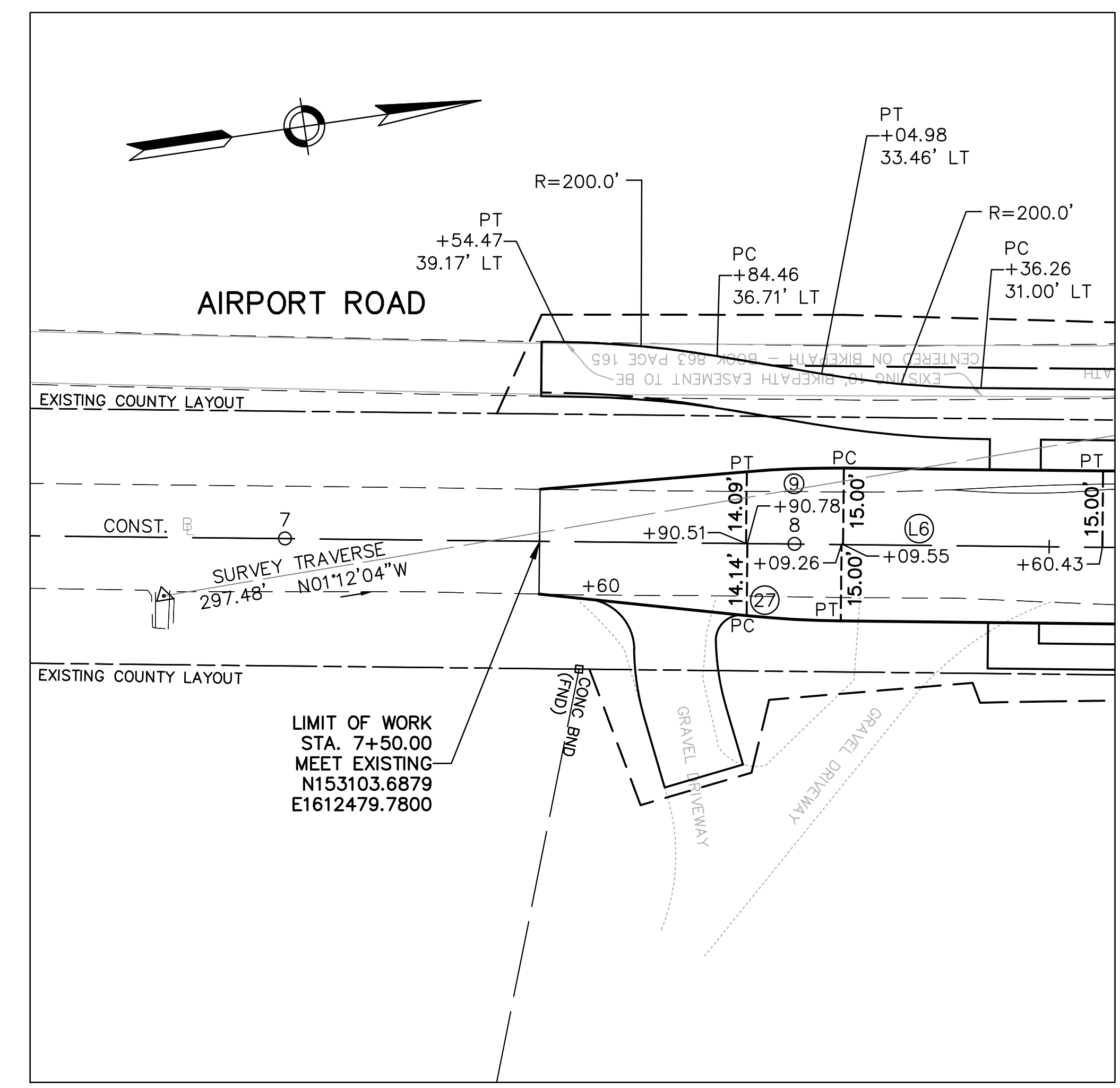
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		11	31
PROJECT FILE NO.		604813	

CURB TIE PLAN

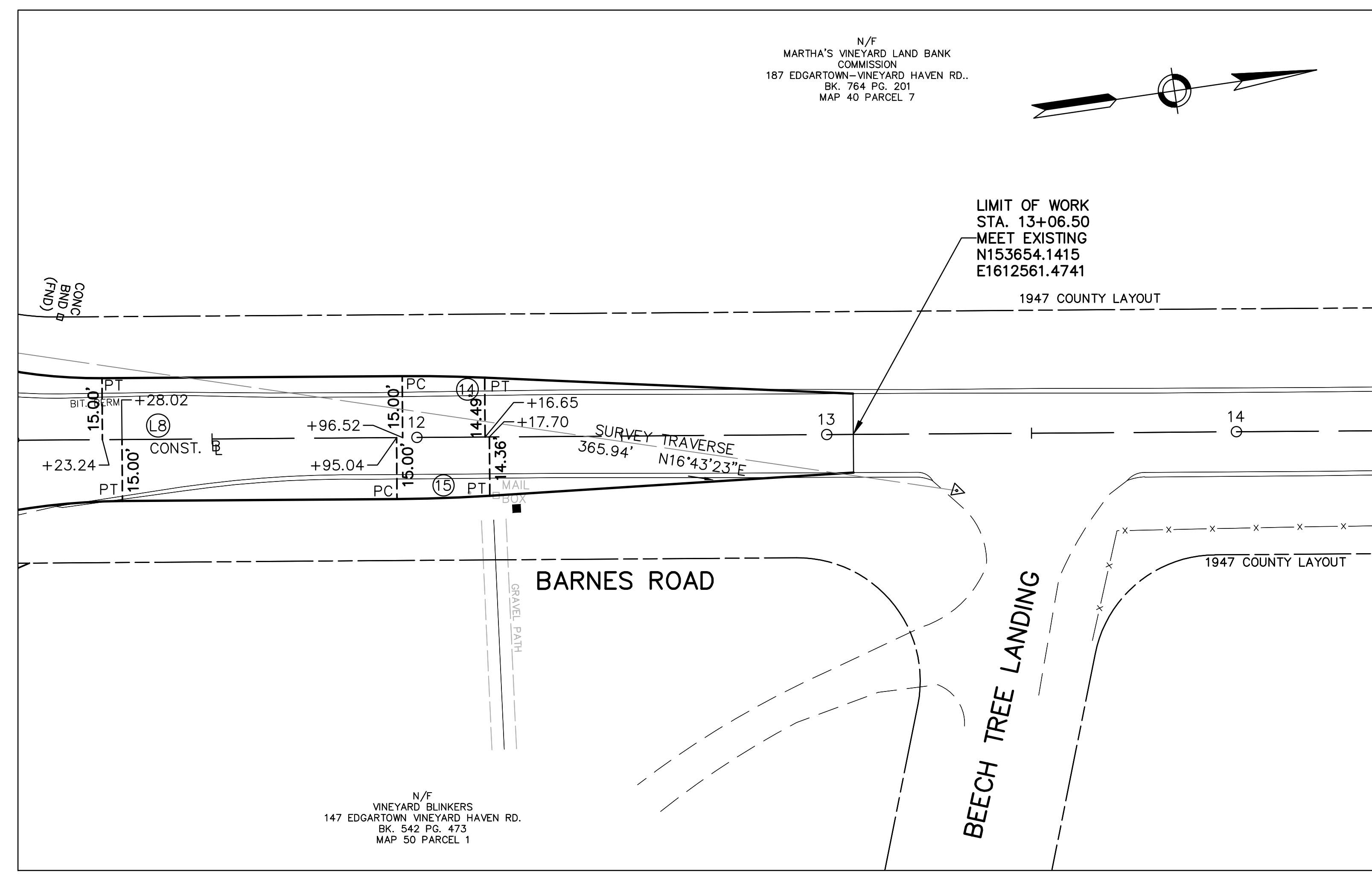


EDGARTOWN-VINEYARD HAVEN ROAD

CONT. ON SHEET 10

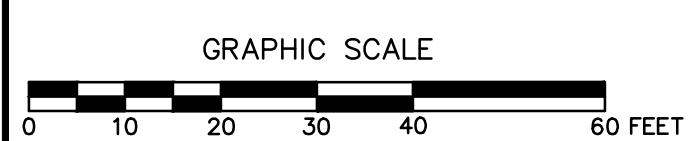


AIRPORT ROAD



BARNES ROAD

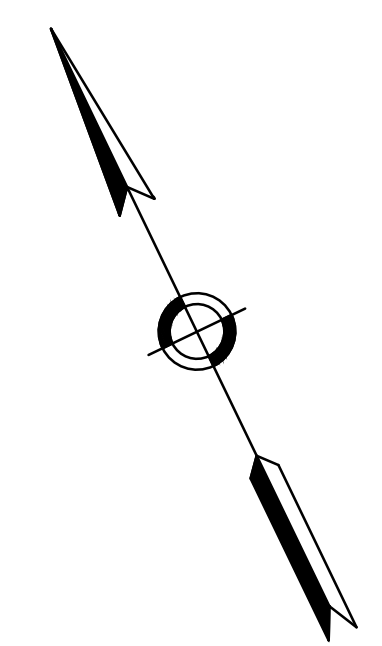
IN CHARGE OF: JMD
 DRAWN BY: JFO
 CHECKED BY: G.H./JMD



**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		12	31
PROJECT FILE NO.		604813	

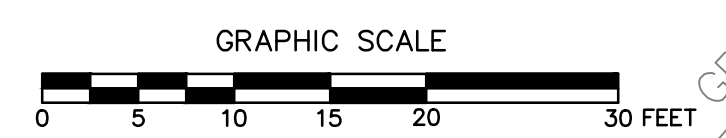
GRADING PLAN



EDGARTOWN-VINEYARD HAVEN ROAD

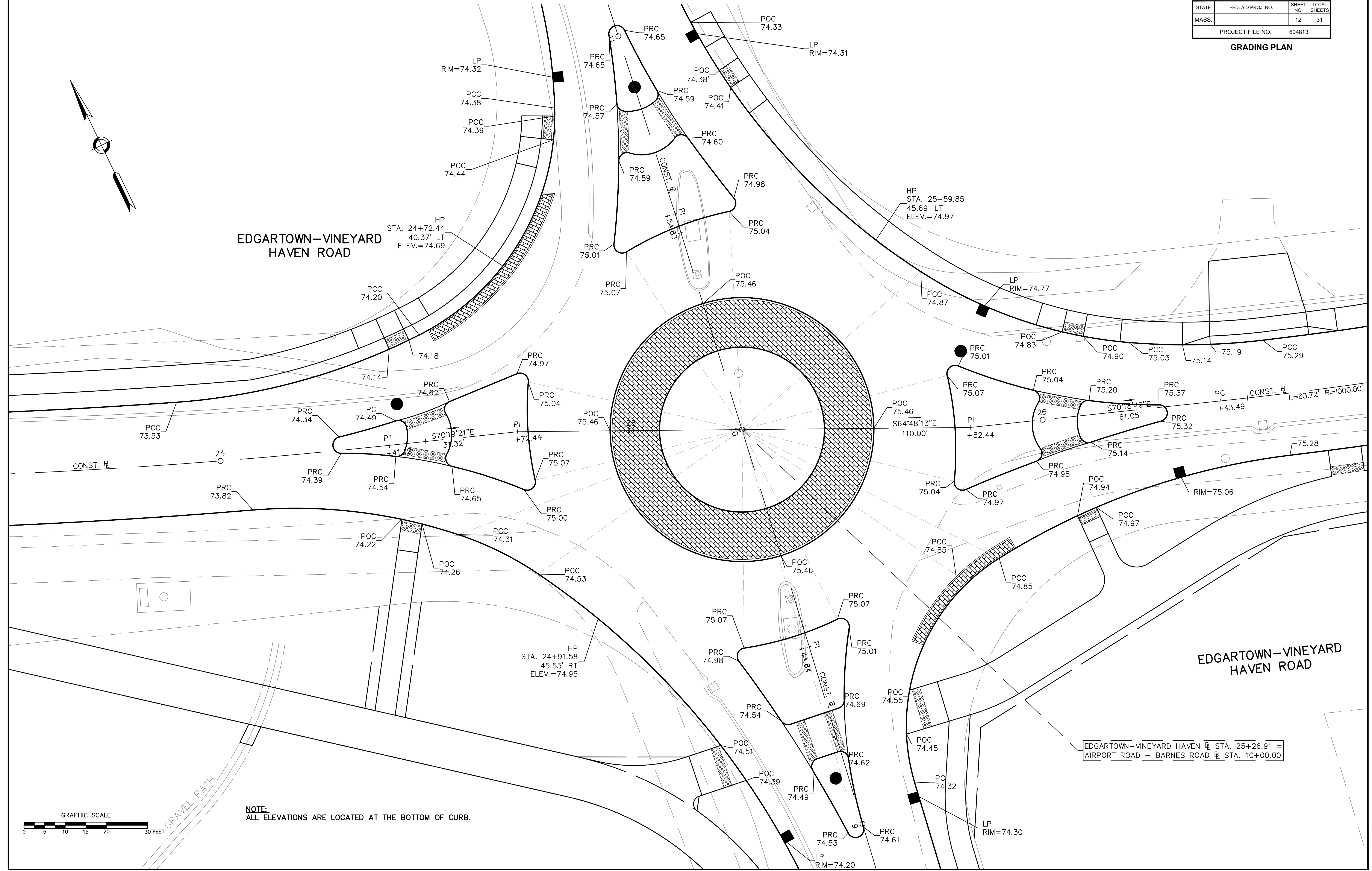
EDGARTOWN-VINEYARD HAVEN ROAD

IN CHARGE OF
MDK
DRAWN BY
MDK
CHECKED BY
G.J.H./J.M.D.



NOTE:
ALL ELEVATIONS ARE LOCATED AT THE BOTTOM OF CURB.

EDGARTOWN-VINEYARD HAVEN @ STA. 25+26.91 =
AIRPORT ROAD - BARNES ROAD @ STA. 10+00.00



DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEVATION	INV ELEVATION	INV ELEVATION OUT	REMARKS
①	DMH	22+50, 10.4'LT	71.45	66.69	UNKNOWN	OVER EX. 24" RCP
②	CB	22+65, 15.0'LT	71.68	-	67.18	4' SUMP
③	CB	22+65, 15.0'RT	71.68	-	67.18	4' SUMP
④	CBCI	10+95, 18.1'LT	74.32	-	70.15	4' SUMP
⑤	CBCI	10+94.5, 18.4'RT	74.32	-	70.15	4' SUMP
⑥	DMH	10+87	75.17	69.85	69.55	-
⑦	DMH	25+80, 18.5'LT	74.96	70.69	66.69	OVER EX. 24" RCP
⑧	CBCI	25+89, 29.0'LT	74.77	-	70.77	4' SUMP
⑨	CBCI	26+32, 17.4'RT	75.06	-	70.56	4' SUMP
⑩	CBCI	9+02, 15.0'RT	74.30	-	70.30	4' SUMP
⑪	CBCI	9+02, 19.6'LT	74.20	-	70.23	4' SUMP
⑫	DMH	9+12.5, 3.0'LT	74.90	70.38	70.08	-

OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		13	31

PROJECT FILE NO. 604813

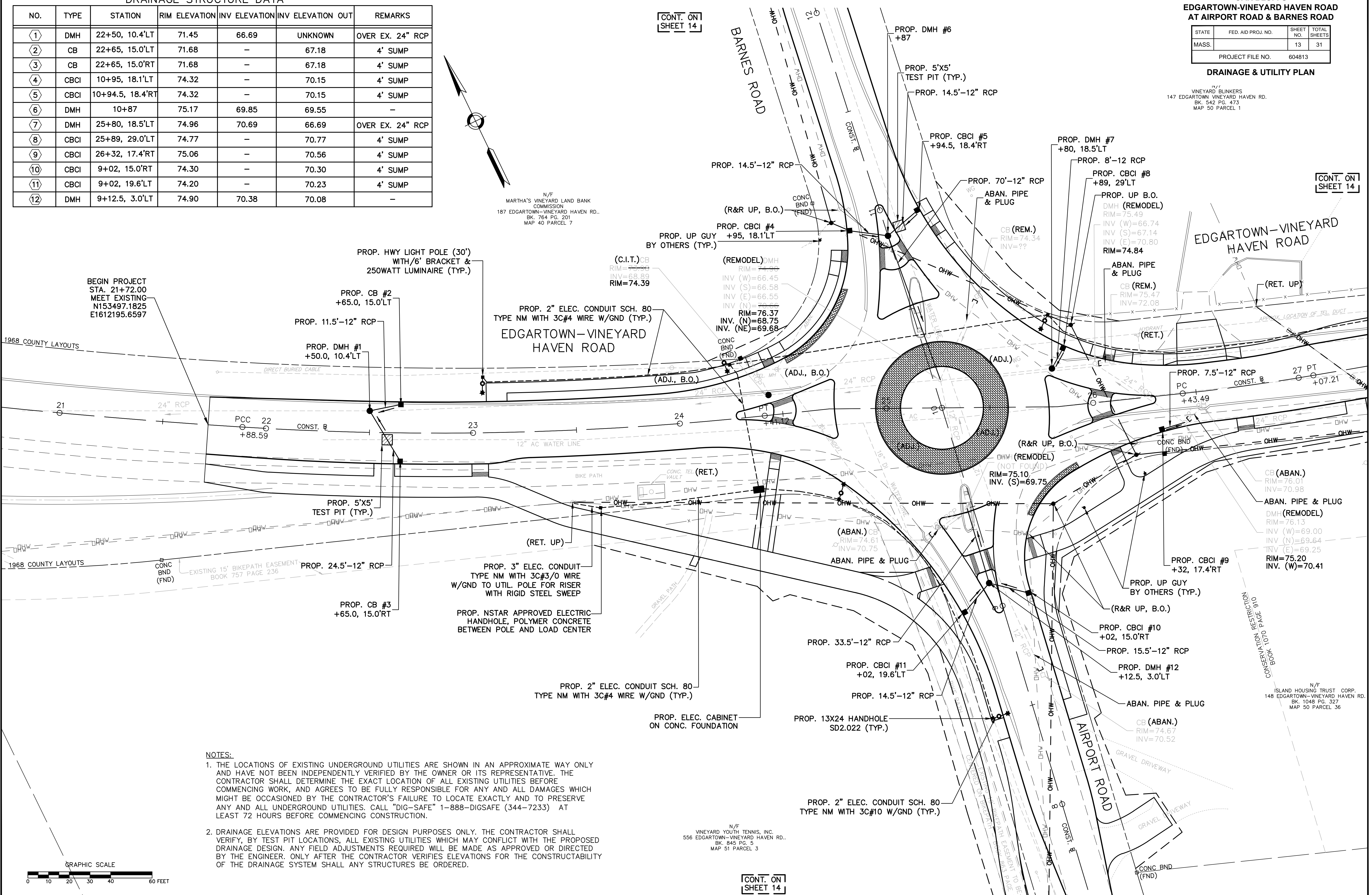
DRAINAGE & UTILITY PLAN

VINEYARD BLINKERS
147 EDGARTOWN-VINEYARD HAVEN RD.
BK. 542 PG. 473
MAP 50 PARCEL 1

N/F
MARTHA'S VINEYARD LAND BANK
COMMISSION
187 EDGARTOWN-VINEYARD HAVEN RD.
BK. 764 PG. 201
MAP 40 PARCEL 7

CONT. ON
SHEET 14

CONT. ON
SHEET 14



BEGIN PROJECT
STA. 21+72.00
MEET EXISTING
N153497.1825
E1612195.6597

PROP. HWY LIGHT POLE (30')
WITH/6' BRACKET &
250WATT LUMINAIRE (TYP.)

PROP. 2" ELEC. CONDUIT SCH. 80
TYPE NM WITH 3C#4 WIRE W/GND (TYP.)
EDGARTOWN-VINEYARD
HAVEN ROAD

NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.
2. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY, BY TEST PIT LOCATIONS, ALL EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED.

N/F
VINEYARD YOUTH TENNIS, INC.
556 EDGARTOWN-VINEYARD HAVEN RD.
BK. 845 PG. 5
MAP 51 PARCEL 3

N/F
ISLAND HOUSING TRUST CORP.
148 EDGARTOWN-VINEYARD HAVEN RD.
BK. 1048 PG. 327
MAP 50 PARCEL 36

IN CHARGE OF
JMD
DRAWN BY
JFO
CHECKED BY
G.H./JMD

GRAPHIC SCALE



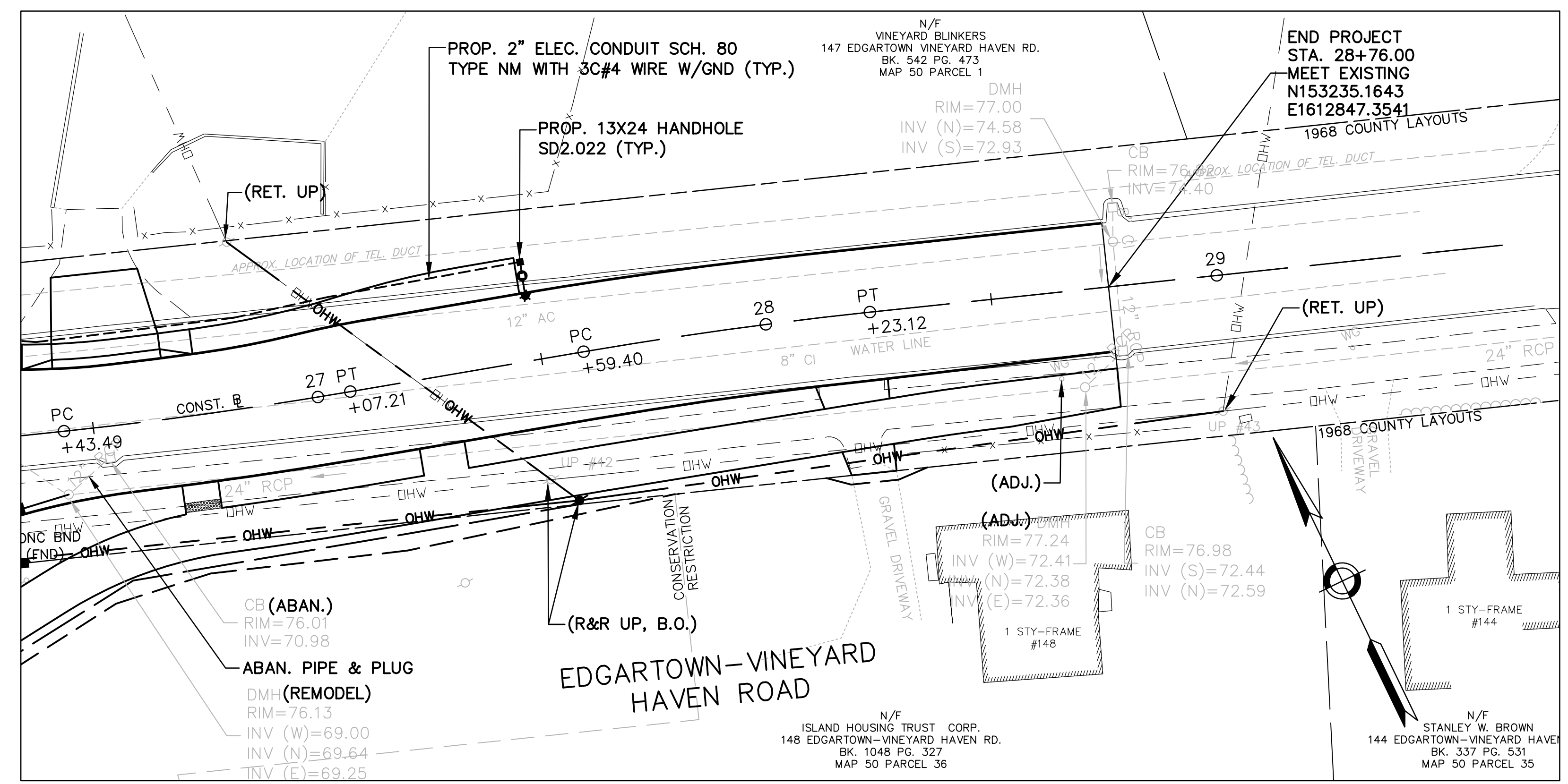
CONT. ON
SHEET 14

**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		14	31
PROJECT FILE NO.		604813	

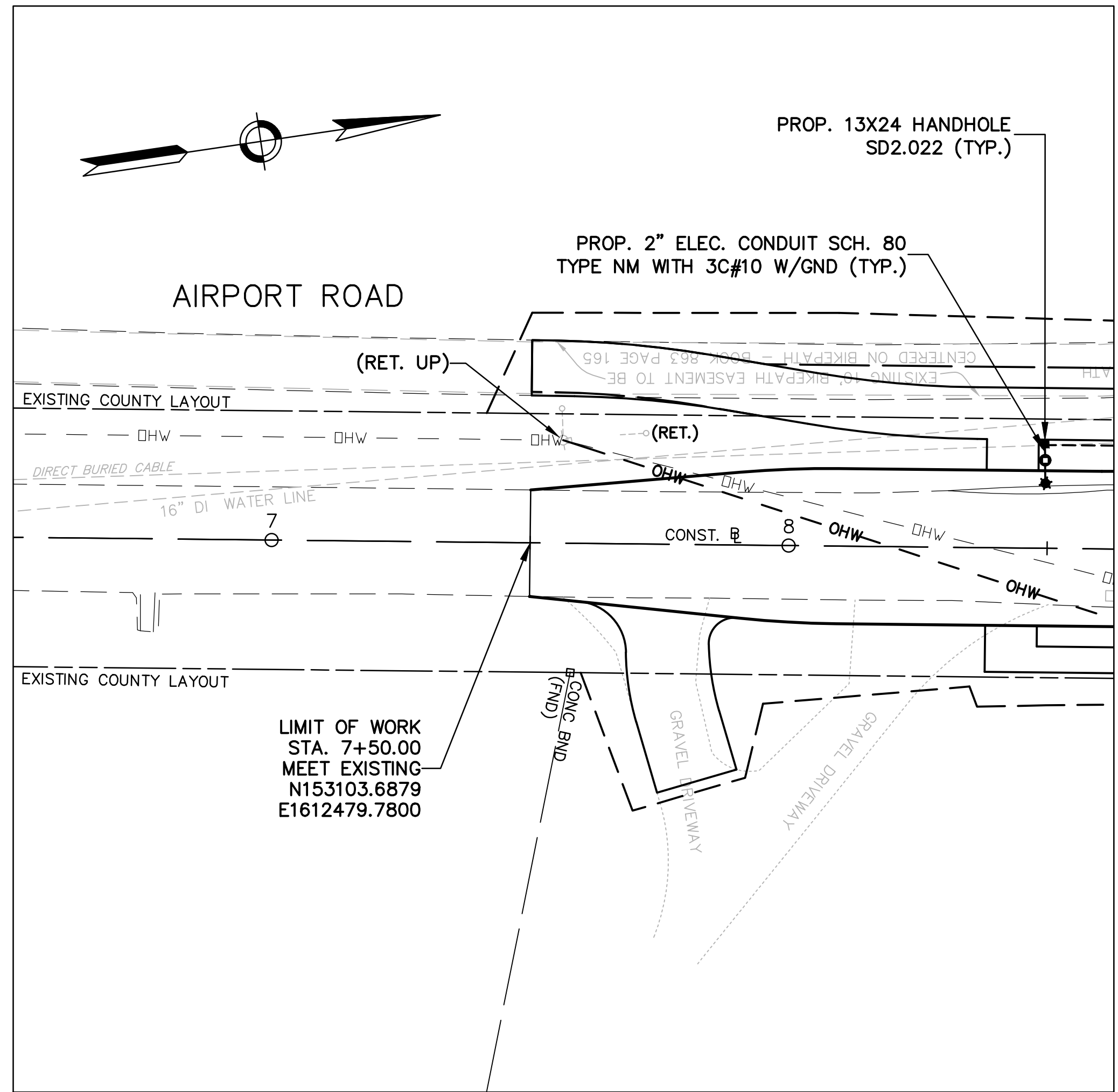
DRAINAGE & UTILITY PLAN

NOTES:
1. THE ENTIRE PROJECT SITE IS WITHIN A ZONE II GROUNDWATER PROTECTION AREA.

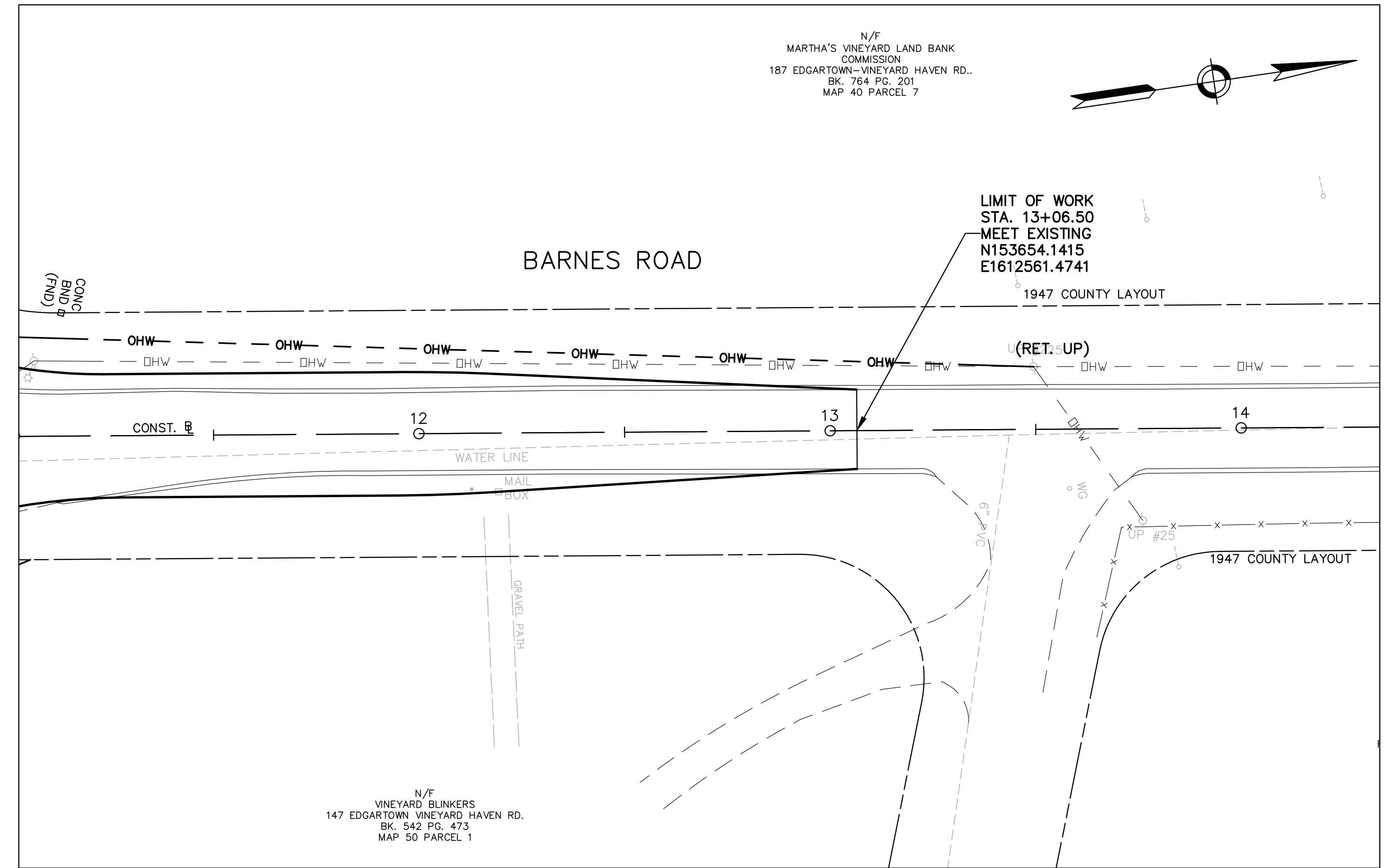


EDGARTOWN-VINEYARD HAVEN ROAD

CONT. ON SHEET 13

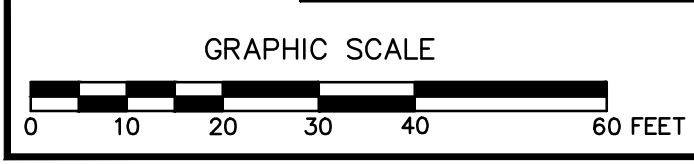


AIRPORT ROAD



BARNES ROAD

IN CHARGE OF: JMD
DESIGNED BY: JFO
DRAWN BY: JFO
CHECKED BY: GJH/JMD

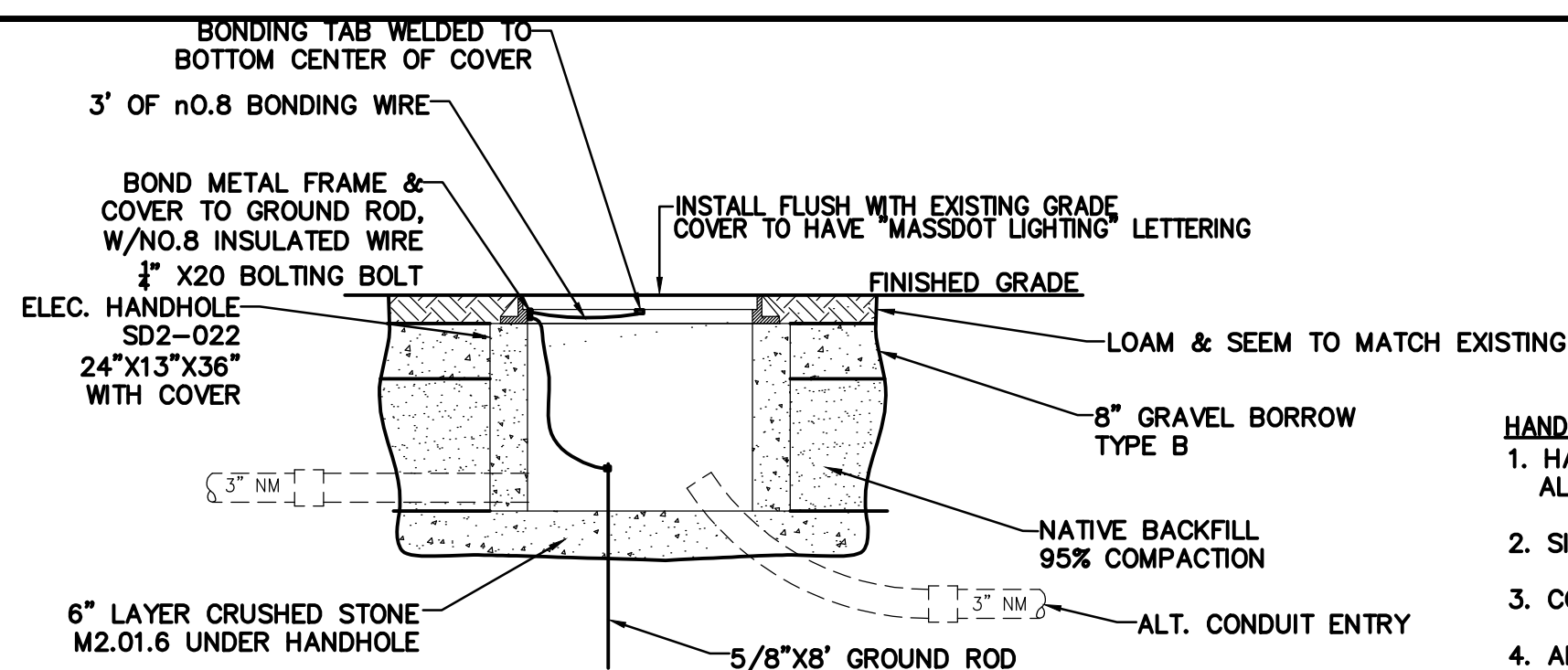


STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		15	31
PROJECT FILE NO.		604813	

ELECTRICAL DETAILS

ELECTRICAL INSTALLATION NOTES:

- THIS DRAWING IS BASED ON INFORMATION PROVIDED BY OTHERS. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, DEVICES, MATERIALS AND EQUIPMENT PRIOR TO MAKING ANY MODIFICATIONS OR ADDITIONS.
- ALL MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE STANDARDS OF ANSI, NEMA, OSHA, UL NFPA-70, AND THE MASS ELECTRICAL CODE WITH REGARDS TO MATERIAL, DESIGN, CONSTRUCTION AND TESTING.
- CONTRACTOR SHALL NOTIFY DIG SAFE PRIOR TO ANY EXCAVATION.
- CONTRACTOR SHALL INSPECT SITE AND FOLLOW ALL DIG SAFE MARKINGS. CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO EXCAVATION.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO ORIGINAL CONDITIONS.
- CONTRACTOR TO PERFORM ALL WORK AS SHOWN.
- ALL WIRING ON THIS PROJECT SHALL BE INDIVIDUAL CONDUCTORS. ALL GROUND WIRES SHALL BE INSULATED AND MARKED, AS OPPOSED TO BARE.

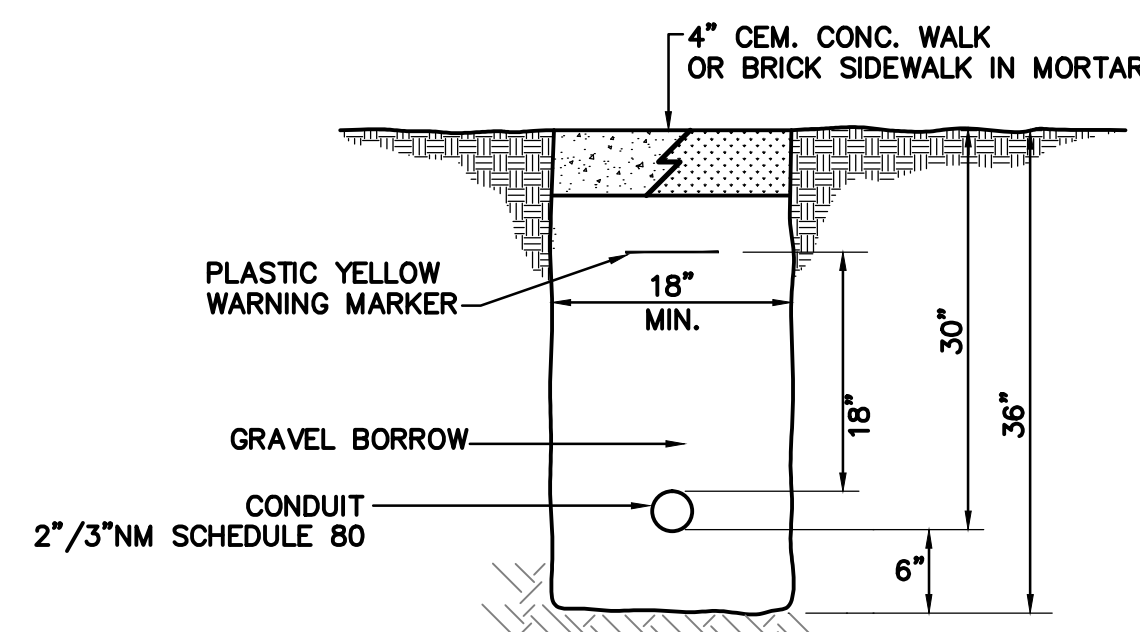


INSTALLATION DETAIL
ELECTRIC HANDHOLE

NOT TO SCALE

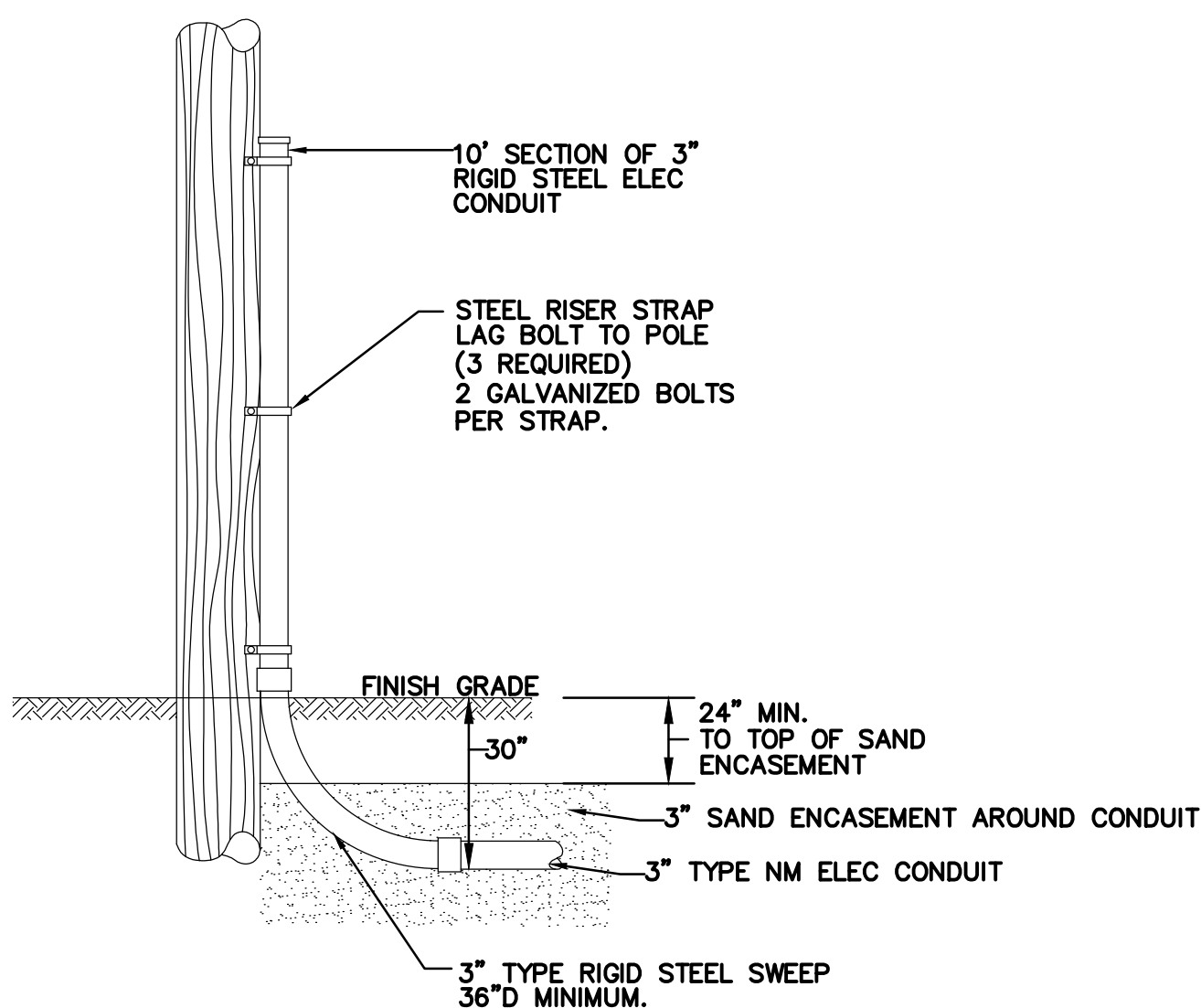
HANDHOLE INSTALLATION NOTES:

- HANDHOLE ORIENTATION TO BE SUCH THAT ALL SUPPLY DUCTS ENTER ON SAME SHORT SIDE.
- SIZE AND NUMBER OF CONDUITS AS REQUIRED.
- CONDUIT LOCATIONS SHOWN ARE TYPICAL.
- ALL HANDHOLES SHALL BE LOCATED OUTSIDE OF THE PROPOSED WALKS AND SHARED USE PATH.



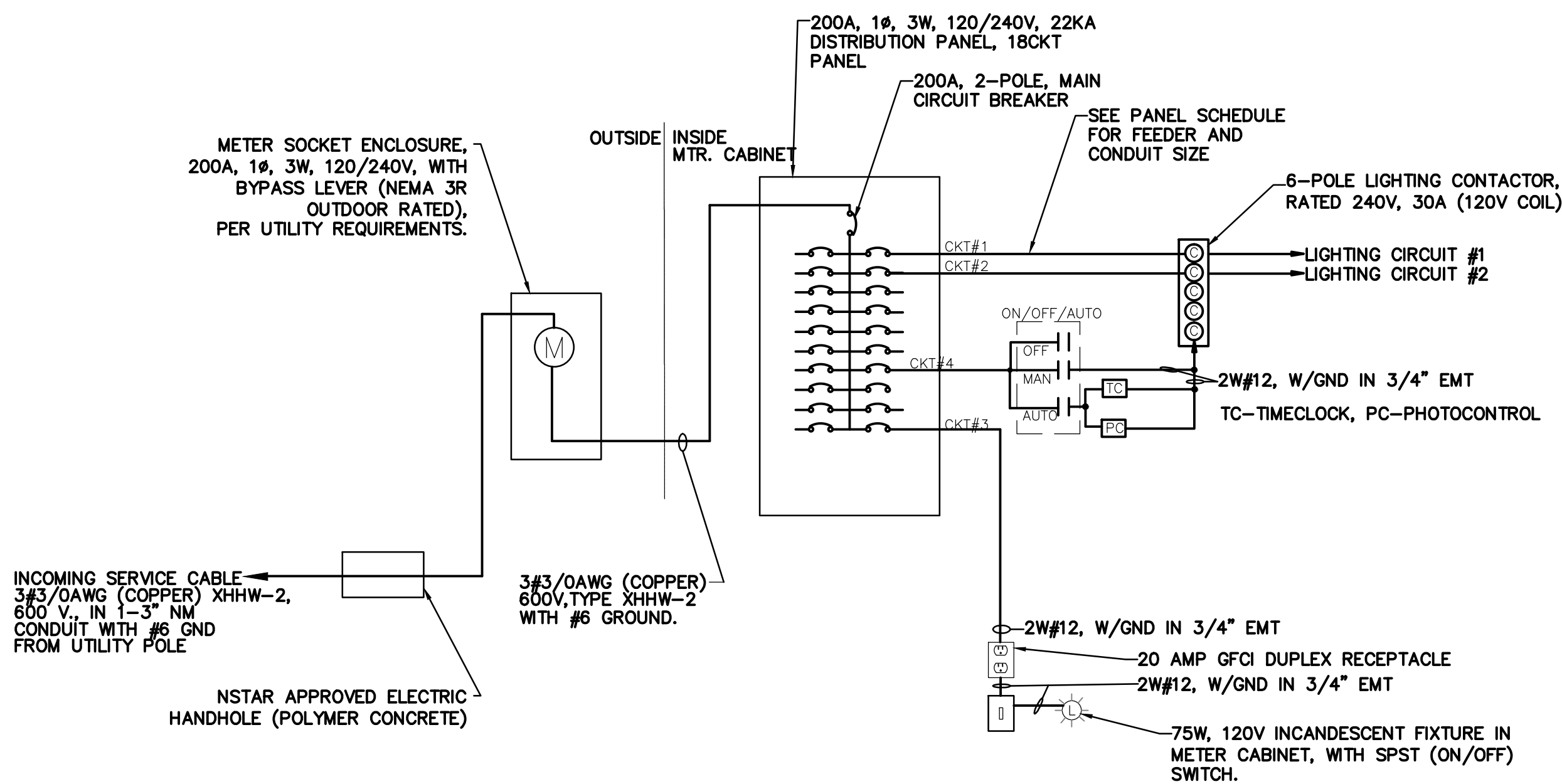
TYPICAL STREET LIGHT
CONDUIT TRENCH

NOT TO SCALE



TYPICAL UTILITY
RISER POLE DETAIL

NOT TO SCALE

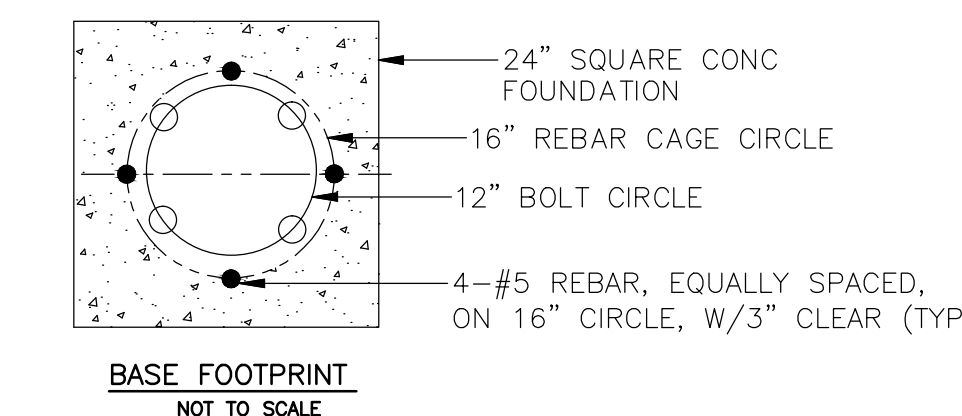


LIGHTING LOAD CENTER
ELECTRICAL RISER DETAIL

NOT TO SCALE

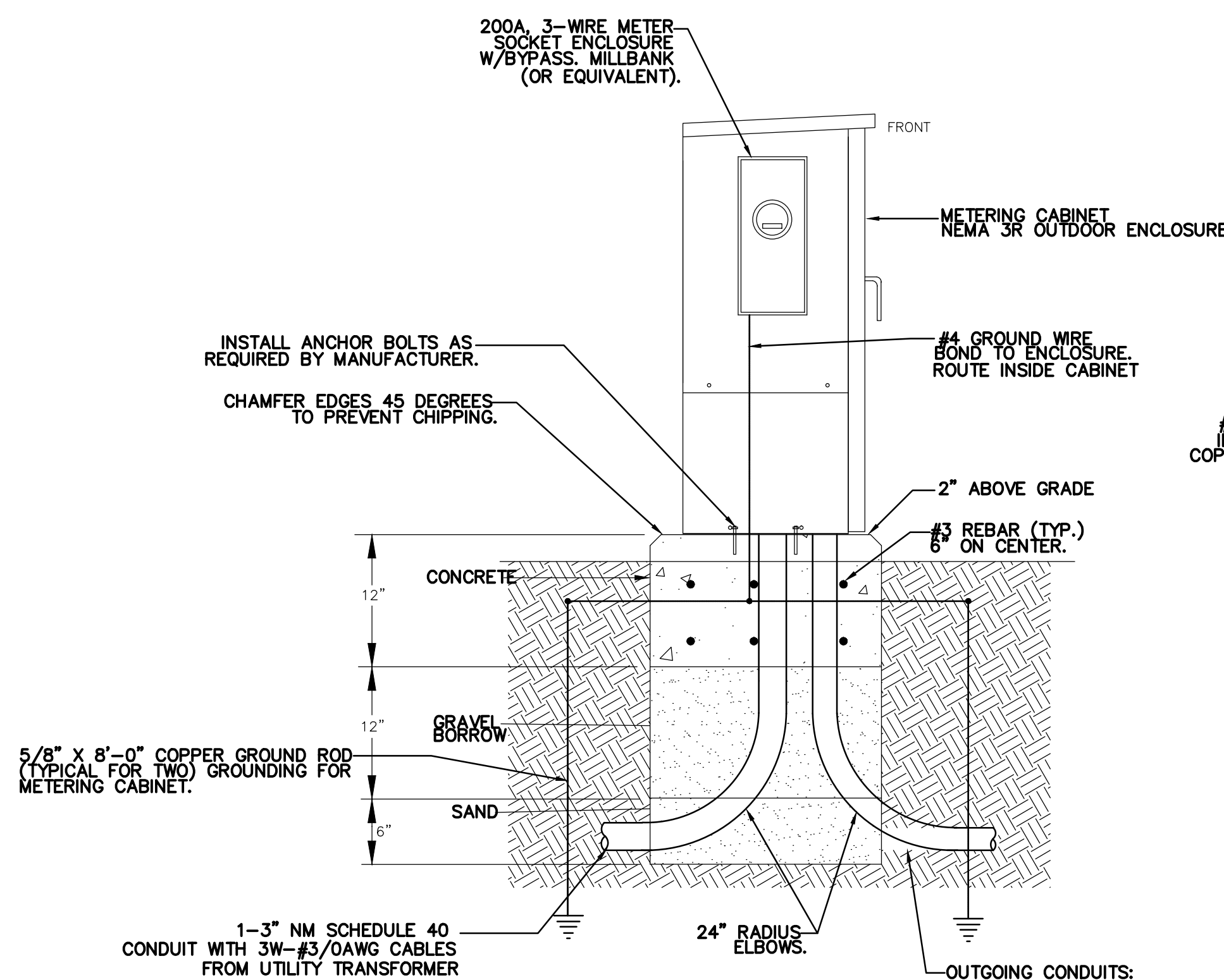
NEW DISTRIBUTION PANEL SCHEDULE							
PHASE: 1		WIRES: 3		VOLTAGE: 120/240V		MAINS: 200A MCB	
CIRCUIT	FRAME	POLES(N-NEUTRAL)	TRIP	DESCRIPTION OF LOAD	CABLE	CONDUIT	REMARKS
M	200	2P	200	MAIN CIRCUIT BREAKER	3W#3/0AWG & #6 GND	1-3\"/>	

ELECTRICAL PANEL SCHEDULE



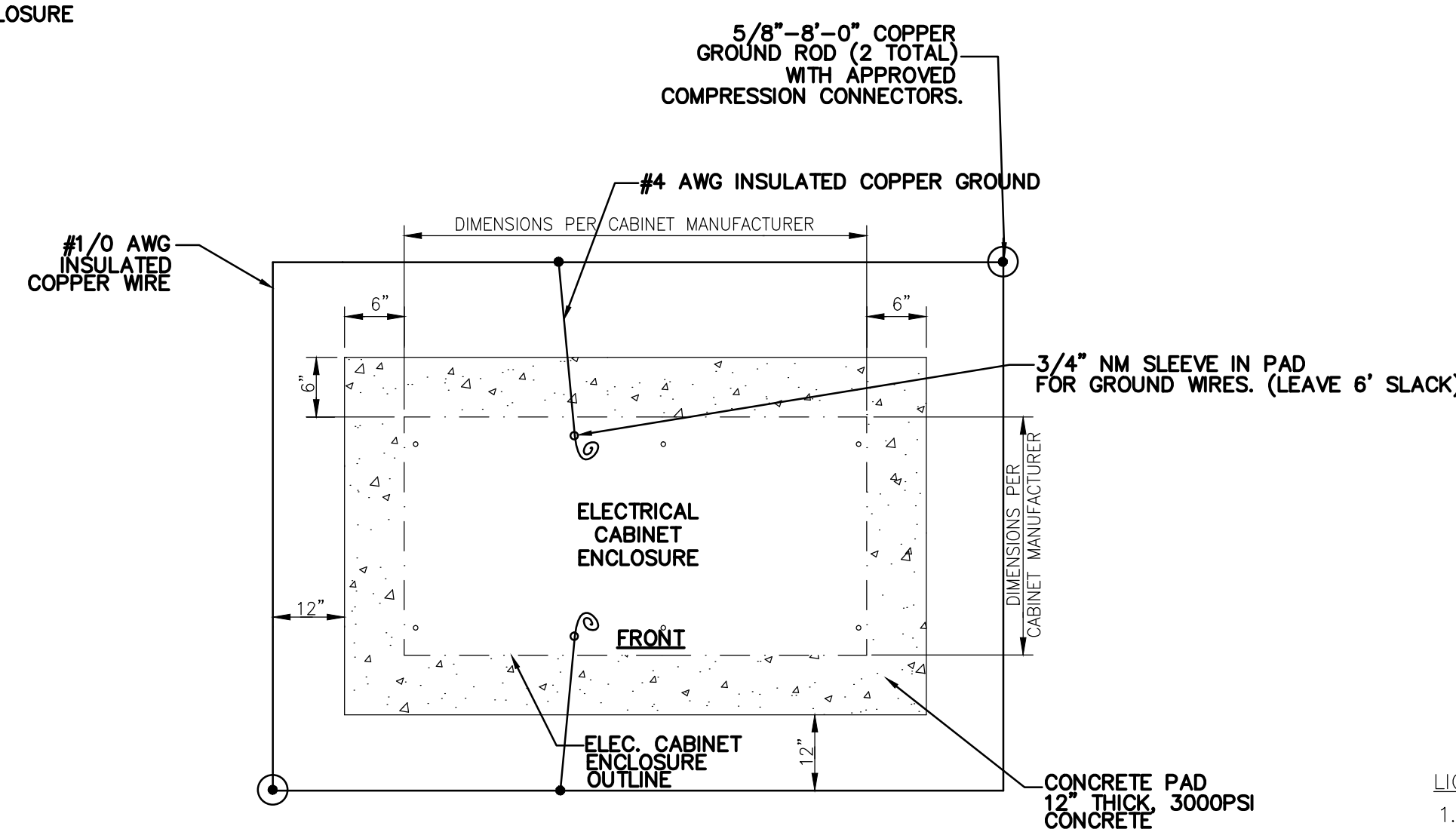
BASE FOOTPRINT

NOT TO SCALE



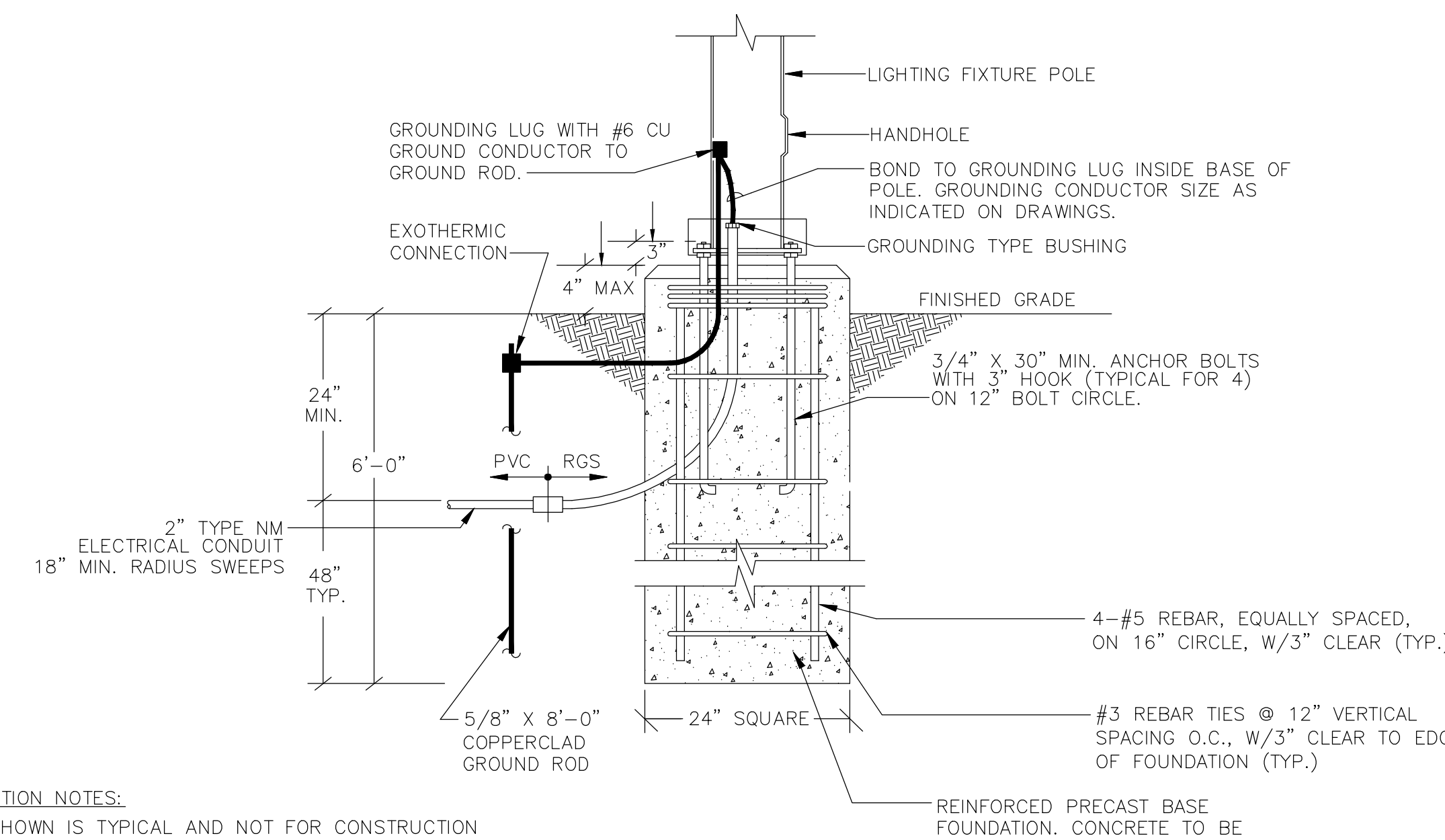
LIGHTING LOAD CENTER DETAIL

NOT TO SCALE



ELECTRICAL CABINET FOUNDATION PLAN

NOT TO SCALE



LIGHT POLE FOUNDATION DETAIL

NOT TO SCALE

LIGHT POLE FOUNDATION NOTES:

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

**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		16	31
PROJECT FILE NO.		604813	

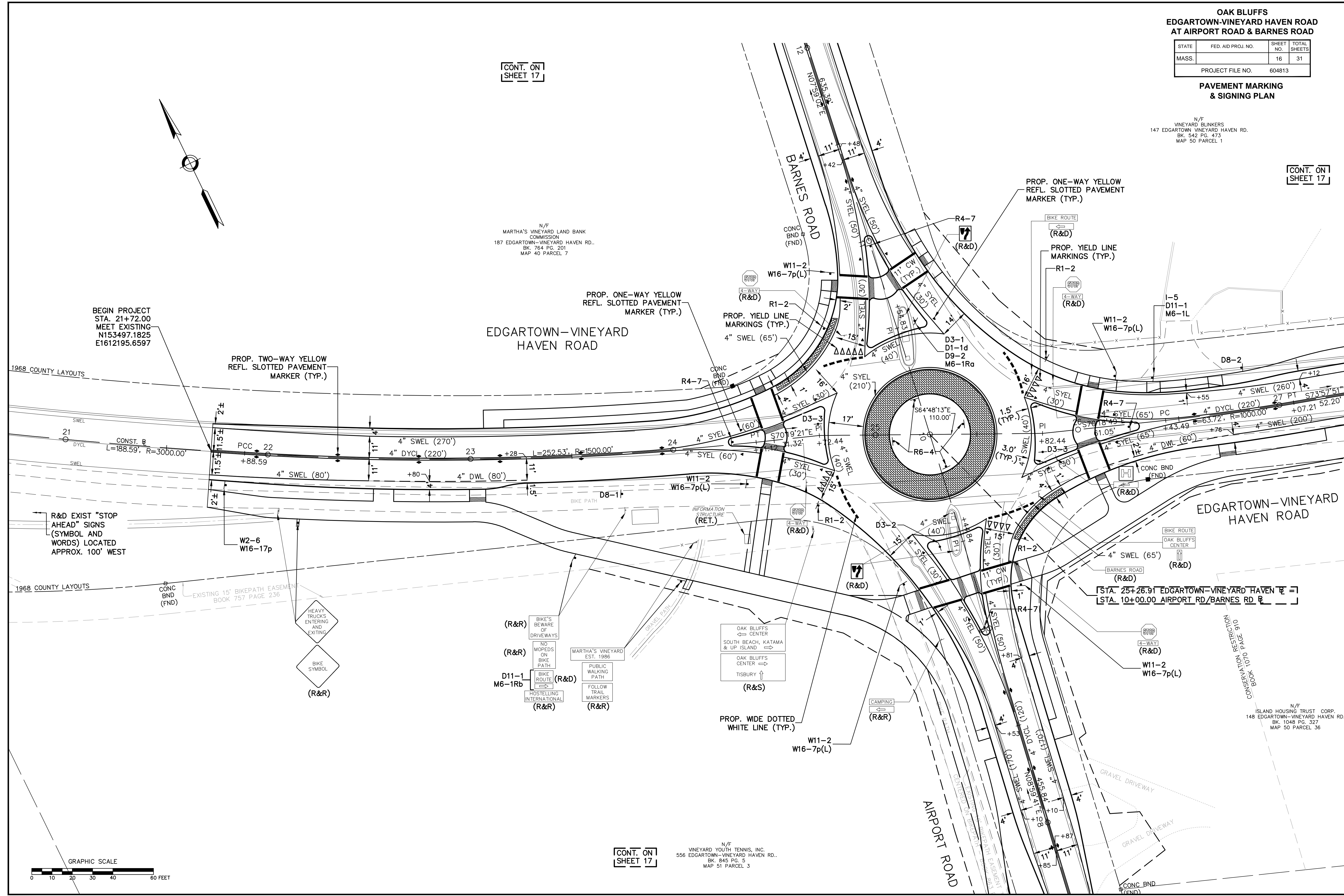
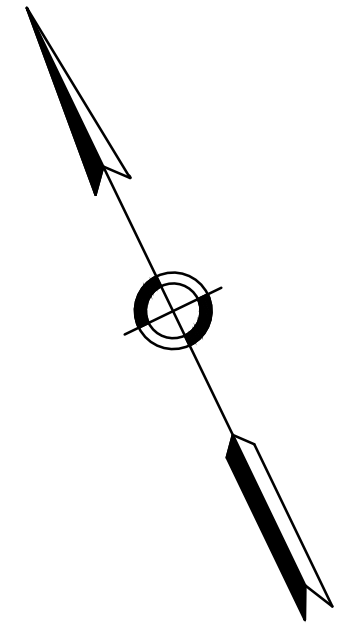
**PAVEMENT MARKING
& SIGNING PLAN**

N/F
VINEYARD BLINKERS
147 EDGARTOWN-VINEYARD HAVEN RD.
BK. 542 PG. 473
MAP 50 PARCEL 1

CONT. ON
SHEET 17

CONT. ON
SHEET 17

N/F
MARTHA'S VINEYARD LAND BANK
COMMISSION
187 EDGARTOWN-VINEYARD HAVEN RD.
BK. 764 PG. 201
MAP 40 PARCEL 7



BEGIN PROJECT
STA. 21+72.00
MEET EXISTING
N153497.1825
E1612195.6597

PROP. TWO-WAY YELLOW
REFL. SLOTTED PAVEMENT
MARKER (TYP.)

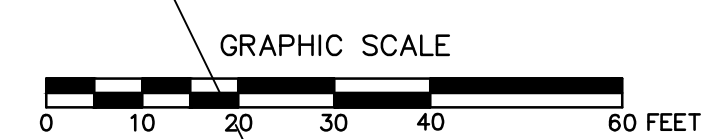
PROP. ONE-WAY YELLOW
REFL. SLOTTED PAVEMENT
MARKER (TYP.)

PROP. ONE-WAY YELLOW
REFL. SLOTTED PAVEMENT
MARKER (TYP.)

R&D EXIST "STOP
AHEAD" SIGNS
(SYMBOL AND
WORDS) LOCATED
APPROX. 100' WEST

[STA. 25+26.91 EDGARTOWN-VINEYARD HAVEN RD] =
[STA. 10+00.00 AIRPORT RD/BARNES RD] =

IN CHARGE OF
DRAWN BY
CHECKED BY



CONT. ON
SHEET 17

N/F
VINEYARD YOUTH TENNIS, INC.
556 EDGARTOWN-VINEYARD HAVEN RD.
BK. 845 PG. 5
MAP 51 PARCEL 3

N/F
ISLAND HOUSING TRUST CORP.
148 EDGARTOWN-VINEYARD HAVEN RD.
BK. 1048 PG. 327
MAP 50 PARCEL 36

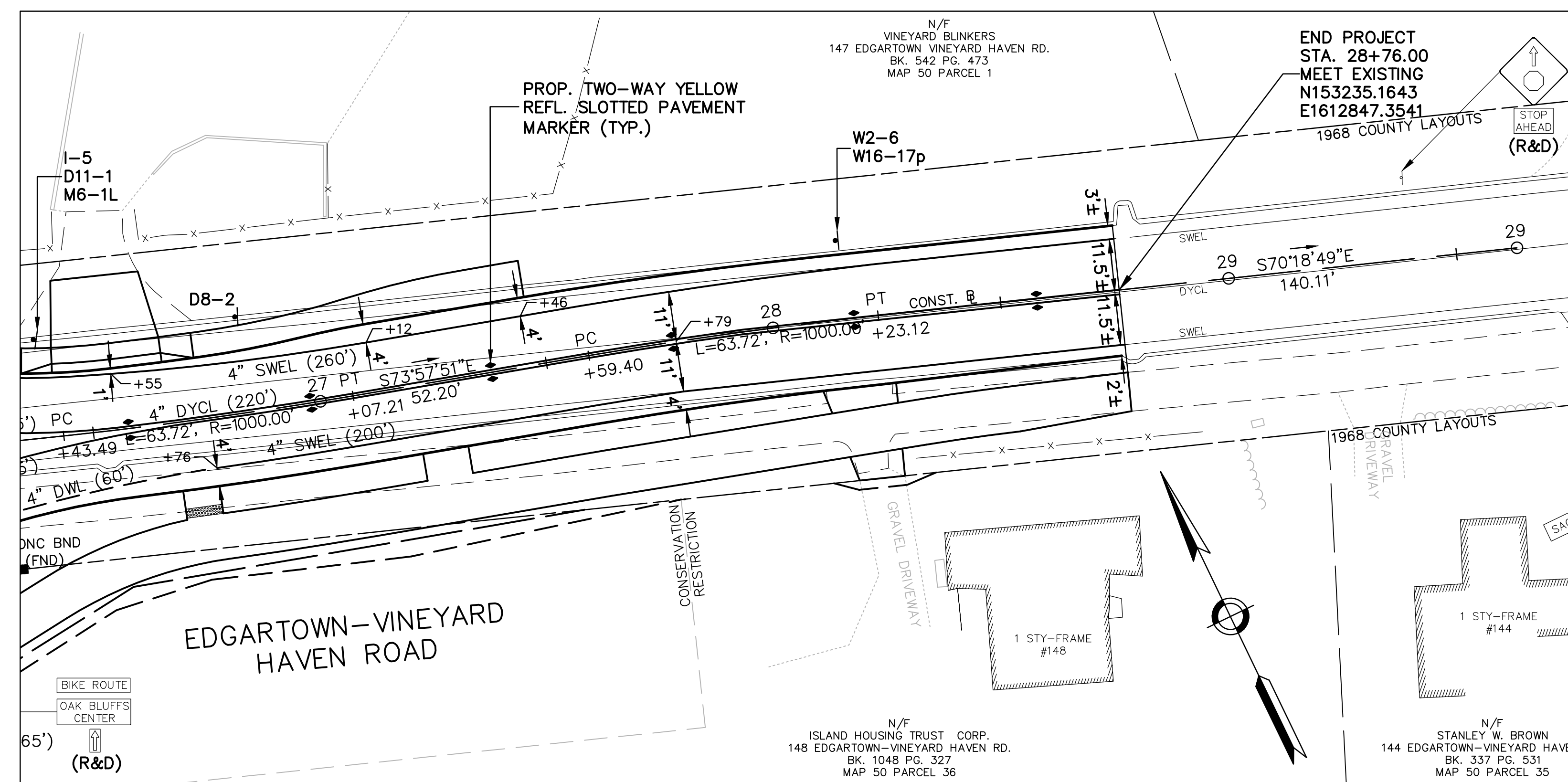
CONSERVATION RESTRICTION
BOOK 1070 PAGE 910

- (R&R) BIKE'S BEWARE OF DRIVEWAYS
- (R&R) NO MOPEDS ON BIKE PATH
- (R&R) BIKE ROUTE
- (R&R) HOSTELLING INTERNATIONAL
- (R&R) MARTHA'S VINEYARD EST. 1986
- (R&R) PUBLIC WALKING PATH
- (R&R) FOLLOW TRAIL MARKERS
- (R&S) OAK BLUFFS CENTER SOUTH BEACH, KATAMA & UP ISLAND
- (R&S) OAK BLUFFS CENTER TISBURY
- (R&R) CAMPING

**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

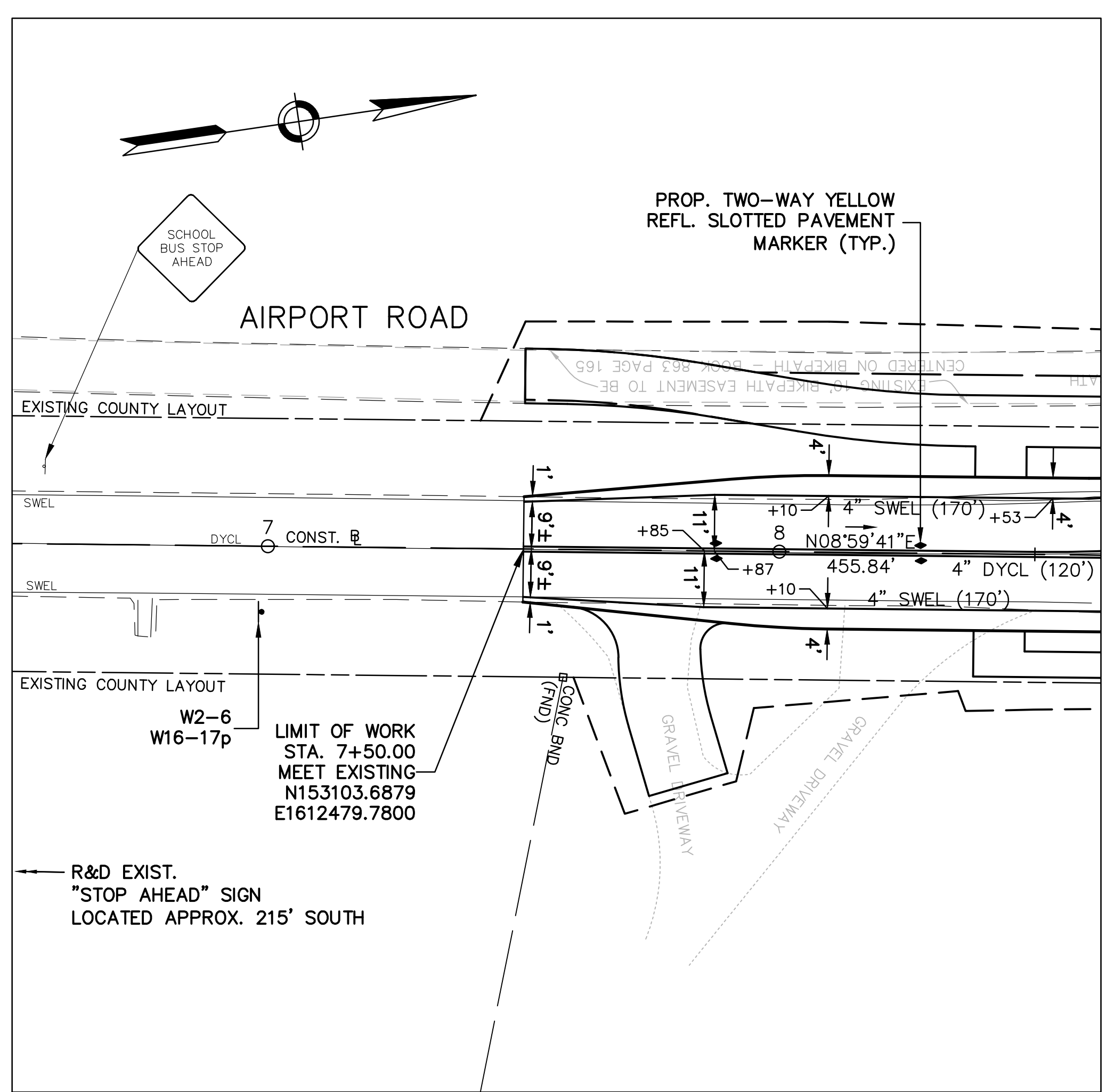
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		17	31
PROJECT FILE NO.		604813	

**PAVEMENT MARKING
& SIGNING PLAN**

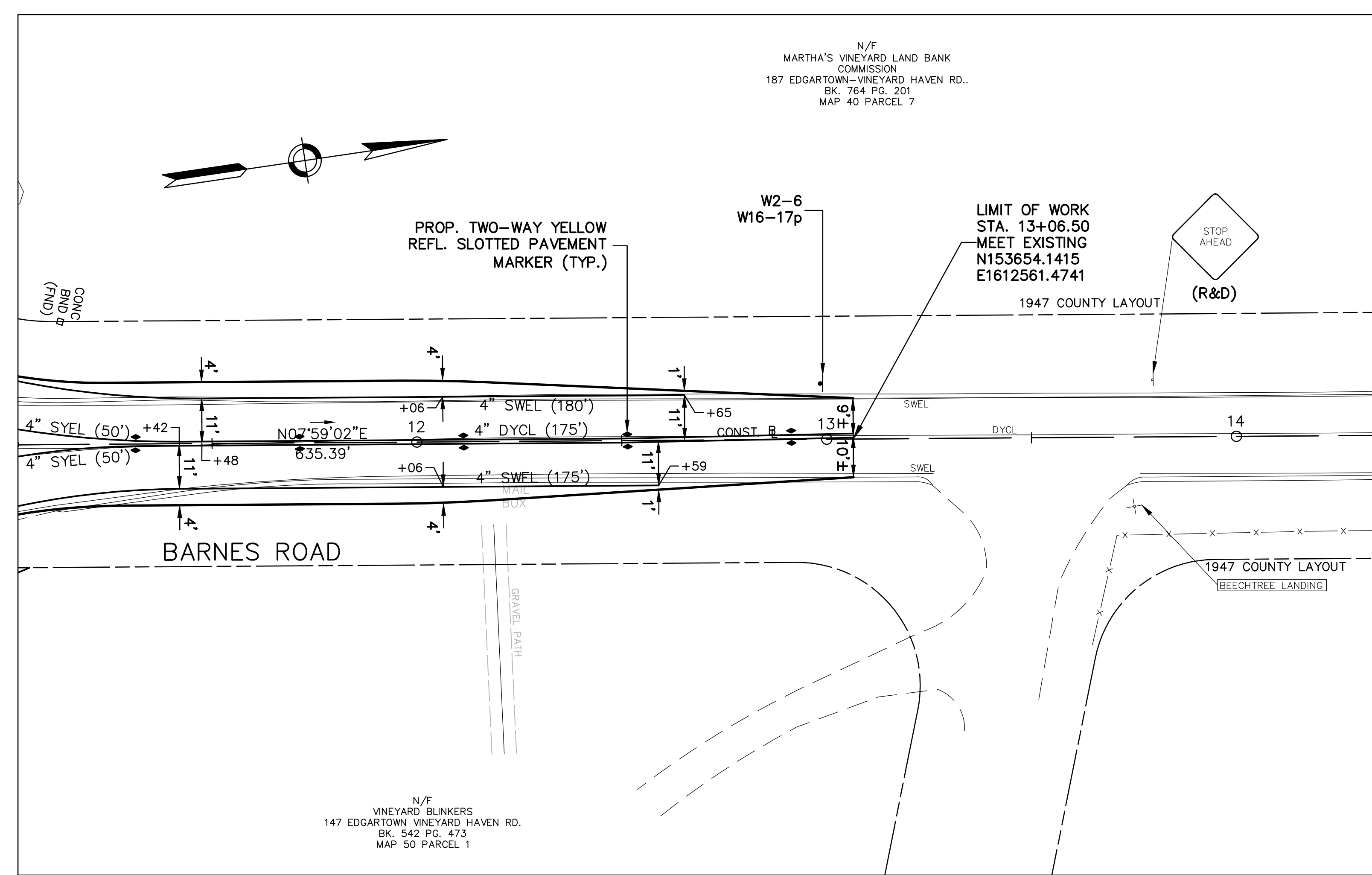


EDGARTOWN-VINEYARD HAVEN ROAD

CONT. ON
SHEET 16

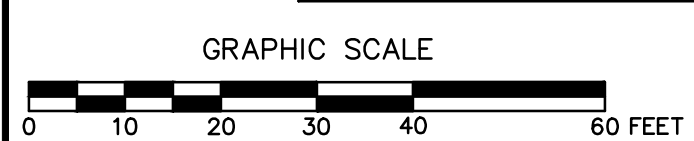


AIRPORT ROAD



BARNES ROAD

IN CHARGE OF
DRAWN BY
CHECKED BY



TRAFFIC SIGN SUMMARY

OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		18	31
PROJECT FILE NO.		604813	

SIGN SUMMARY SHEET

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER			
D1-1d	VAR.	18"		6D ARROW	6" 6"	1	MUTCD STANDARD			MOUNT W/ D3-1	PAID FOR UNDER ITEM 874.	
D3-1 (PBS)	VAR.	12"		6C/4C	3" 3"	1				P5 (1 REQ'D)	PAID FOR UNDER ITEM 874.	
D3-2 (PBS)	VAR.	12"		6C/4C	3" 3"	1				P5 (1 REQ'D)	PAID FOR UNDER ITEM 874.	
D3-3 (PBS)	VAR.	12"		6C/4C	3" 3"	2				P5 (2 REQ'D)	PAID FOR UNDER ITEM 874.	
D8-1	60"	60"		MUNICIPAL STANDARD		1	MUNICIPAL STANDARD			ITEM 841.4 (1 REQ'D)	25.00	25.00
D8-2	60"	60"				1				ITEM 841.4 (1 REQ'D)	25.00	25.00
D9-2	24"	24"		MUTCD STANDARD		1	BLUE	WHITE	WHITE	MOUNT W/ D3-1	4.00	4.00
D11-1	24"	18"				2	MUTCD STANDARD			P5 (1 REQ'D) MOUNT W/ I-5	3.00	6.00
I-5	18"	18"				1				P5 (1 REQ'D)	2.25	2.25
M6-1Ra	21"	15"				1	BLUE	WHITE	WHITE	MOUNT W/ D3-1	2.18	2.18
M6-1L	12"	9"				1	GREEN	WHITE	WHITE	MOUNT W/ I-5	0.75	0.75
M6-1Rb	12"	9"				1	GREEN	WHITE	WHITE	MOUNT W/ D11-1	0.75	0.75
R1-2	30"	30"				4	MUTCD STANDARD			P5 (4 REQ'D)	6.25	25.00
R4-7	24"	30"				4				P5 (4 REQ'D)	5.00	20.00
R6-4	30"	24"				4				P5 (4 REQ'D)	5.00	20.00
W2-6	30"	30"				4				P5 (4 REQ'D)	6.25	25.00
W16-17p	24"	12"		4	MOUNT W/ W2-6	2.00				8.00		
W11-2	30"	30"		5	P5 (5 REQ'D)	6.25				31.25		
W16-7pL	24"	12"		5	MOUNT W/ W11-2	2.00				10.00		
TOTAL P5 (27 REQ'D)										TOTAL	205.18	

- NOTES:**
1. ALL WARNING, REGULATORY AND ROUTE MARKERS SHALL BE FABRICATED WITH HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING (SEE SECTION M9.30.0) TYPE III OR IV.
 2. ALL SIGNS NOTED AS "(R&R)" SHALL BE MOUNTED ON NEW P5 POSTS OR AS OTHERWISE INDICATED.
 3. ALL P5 POSTS SHALL BE TELESCOPIC SQUARE TYPE POSTS.
 4. QUANTITIES OF SIGNS AND POSTS SHOWN ON THIS SHEET MAY DIFFER FROM THE PAVEMENT MARKING AND SIGNING PLAN. WHERE DIFFERENCES OCCUR, THE PAVEMENT MARKING AND SIGNING PLAN SHALL PREVAIL.
 5. ALL STOP AND YIELD SIGNS PROPOSED IN THIS CONTRACT ARE SUBJECT TO FIELD INVESTIGATION BY THE DISTRICT OFFICE OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION TO JUSTIFY WARRANTS BEFORE INSTALLATION. NUMERICAL LIMITS AND JUSTIFICATION FOR THE LIMITS AND JUSTIFICATION FOR THE SPEED AND ADVISORY EXIT SPEED AND ADVISORY EXIT SPEED SIGNS SHALL BE OBTAINED FROM THE SPEED ZONING UNIT OF THE TRAFFIC DEPARTMENT BEFORE FABRICATION AND/OR ERECTION.
 6. D8-X SIGN LEGENDS, SIZE, QUANTITY AND LOCATION TO BE FINALIZED AFTER REVIEW BY THE TOWN OF OAK BLUFFS AND THE MARTHA'S VINEYARD COMMISSION.

IN CHARGE OF: JMD
 DRAWN BY: JFO
 CHECKED BY: GJH/JMD

TRAFFIC CONTROL NOTES

GENERAL

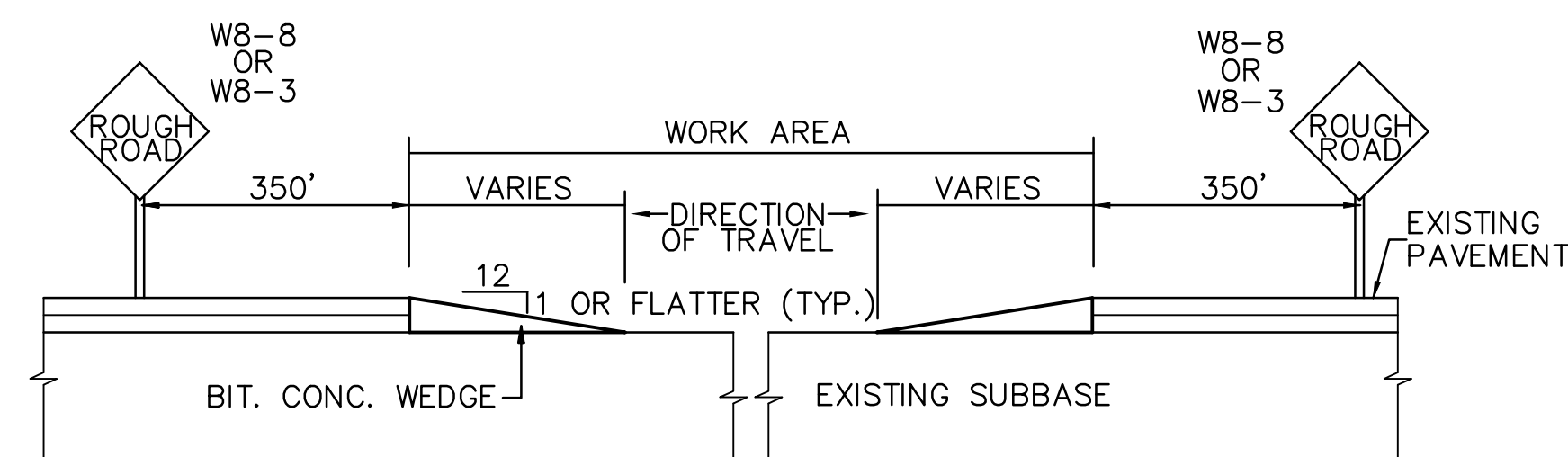
- ALL TRAFFIC MANAGEMENT AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE 2003 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), MASSDOT'S "STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS", THE STANDARD SPECIFICATIONS, AND THE FOLLOWING NOTES.
 - THE TEMPORARY TRAFFIC CONTROL PLANS CONTAINED HEREIN ARE GIVEN AS A GUIDE FOR TYPICAL WORK ZONE TRAFFIC CONTROL APPLICATIONS FOR THE TYPES OF WORK ANTICIPATED FOR THIS PROJECT. THEY ARE NOT INTENDED TO COVER ALL POSSIBLE CONSTRUCTION OPERATIONS WHICH THE CONTRACTOR MAY CHOOSE TO EMPLOY. WORK ZONE TRAFFIC CONTROL FOR OTHER CONSTRUCTION OPERATIONS OR OTHER TRAFFIC SITUATIONS IF APPLICABLE SHALL BE IN ACCORDANCE WITH THE REFERENCES LISTED IN NOTE NO. 1 AND AS APPROVED OR DIRECTED BY THE ENGINEER.
 - LANE RESTRICTIONS MAY NOT REMAIN OVERNIGHT OR DURING NON-WORKING HOURS. AFTER EACH WORKING DAY, TRAFFIC CONTROL DEVICES THAT ARE NOT REQUIRED SHALL BE MOVED OFF THE ROADWAY OR FULL DEPTH CONSTRUCTION AREA AND PLACED SO AS NOT TO IMPEDE PEDESTRIAN AREAS, ABUTTER ACCESS OR CAUSE CONFUSION TO MOTORISTS. IN CERTAIN CIRCUMSTANCES, AND ONLY WITH THE APPROVAL OF THE ENGINEER, CAN LANE RESTRICTIONS REMAIN OVERNIGHT.
 - CONTRACTOR SHALL PROVIDE A SAFE TEMPORARY PEDESTRIAN ACCESS TO ALL ABUTTERS WHERE EXISTING SIDEWALKS OR OTHER PEDESTRIAN AREAS ARE AFFECTED BY CONSTRUCTION WORK. CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
 - PLACE ALL CONSTRUCTION SIGNING, TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR EACH PHASE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ONE (1) THRU TRAVEL LANE HAVING A MINIMUM WIDTH OF 11'-0" SHALL BE PROVIDED FOR BOTH DIRECTIONS (LANE MAY BE SHARED AND DIRECTION OF TRAVEL TO ALTERNATE UNDER POLICE OFFICER CONTROL) DURING ALL PHASES OF CONSTRUCTION AS SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MINIMUM LANE WIDTH IS MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
 - WHEN WORK INFRINGES UPON THE TRAVELED WAY, WORK SHALL BE RESTRICTED TO OFF-PEAK HOURS ONLY (NORMALLY 9:00am TO 3:00pm, MONDAY TO FRIDAY). THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF ROAD CLOSURE. NO WORK SHALL BE PERFORMED BETWEEN MEMORIAL DAY AND LABOR DAY.
 - TAPER LENGTH FORMULAE FOR CHANNELIZATION DEVICES:
ENGLISH UNITS:
L = WxS FOR SPEED EQUAL TO OR GREATER THAN 45 M.P.H.
L = WS /60 FOR SPEED EQUAL TO OR LESS THAN 40 M.P.H.
WHERE: L = MIN. LENGTH OF TAPER, S = POSTED SPEED, W = OFFSET WIDTH.
 - ADVISORY SPEED LIMIT, IF USED, SHALL BE SET IN THE FIELD BY THE ENGINEER. W13-1 PLATES SHALL BE USED WHERE APPROPRIATE.
 - FLASHING ARROW PANEL SHALL BE SET IN "ARROW MODE" WHEN USED FOR ACTUAL LANE CLOSURES ONLY. FOR SHOULDER CLOSURES, BULBS TO BE ILLUMINATED IN A NON-DIRECTIONAL CAUTION CONFIGURATION TO AVOID UNNECESSARY LANE SHIFTS.
 - DISTANCES SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS ARE A GUIDE ONLY, AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- GRADE DIFFERENCES**
- WHERE THERE IS A LONGITUDINAL DIFFERENCE IN ELEVATION BETWEEN EXISTING PAVEMENT AND ADJACENT TRAVEL SURFACE (UNDER REPAIR OR RECONSTRUCTION), THE CONTRACTOR SHALL PATCH A TEMPORARY HMA WEDGE WITH A 12:1 (OR FLATTER) SLOPE FOR SMOOTH TRANSITION.
 - CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS.
 - CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 4" DURING NON-WORKING HOURS. SHALL BE PROTECTED BY BACKFILLING WITH A WEDGE OF EARTHWORK TO BE COMPACTED AT 4:1 SLOPE AND WILL ALSO REQUIRE DELINEATION BY USE OF DRUMS.
 - A SLOPE OF 4:1 OR FLATTER MUST BE MAINTAINED AFTER WORKING HOURS DURING SUBBASE AND BASE COURSE INSTALLATION ALONG EDGE OF THE TRAVELED WAY. A SLOPE OF 8:1 OR FLATTER MUST BE MAINTAINED ON ALL ABUTTER ACCESS DRIVES AND A SLOPE OF 12:1 OR FLATTER MUST BE MAINTAINED ON ALL SIDEWALKS.
- CONSTRUCTION SIGNING**
- THE FIRST CONSTRUCTION SIGN IN A SERIES ON EACH APPROACH TO THE PROJECT SHALL BE FLUORESCENT ORANGE, HIGH PERFORMANCE (OR HIGH INTENSITY) SHEETING.
 - ALL CONSTRUCTION SIGNS SHALL BE BLACK LEGEND ON A REFLECTORIZED ORANGE BACKGROUND UNLESS OTHERWISE NOTED.
 - CONSTRUCTION SIGNING SHOWN ON THE ADVANCE SIGNING PLAN SHALL REMAIN IN PLACE FOR THE ENTIRE PROJECT DURATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - STANDARD ORANGE OR FLUORESCENT RED-ORANGE FLAGS (16"x16" MIN.) MAY BE ATTACHED TWO (2) EACH ON THE FIRST ADVANCE WARNING SIGN IN A GIVEN APPROACH. FLAGS SHALL NOT INTERFERE WITH A CLEAR VIEW OF THE SIGN FACE.
 - EXISTING GUIDE SIGNS SHALL BE TEMPORARILY RESET AS DIRECTED BY THE ENGINEER.
 - ALL SIGNS, INCLUDING EXISTING, THAT ARE NOT REPRESENTATIVE OF ACTUAL WORK CONDITIONS SHALL BE EITHER COVERED OR REMOVED WHEN NOT APPLICABLE.
 - IF USED, ALL W20-4 AND W20-5 SIGNS SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY UNLESS LANE RESTRICTIONS ARE PERMITTED TO REMAIN OVERNIGHT IN ACCORDANCE WITH NOTE NO. 3 ABOVE.
 - USE W20-8 AND W20-7a SIGNS ONLY WHILE POLICE OR FLAGGERS ARE DIRECTING TRAFFIC. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY OR WHEN NOT IN USE.

PAVEMENT MARKINGS

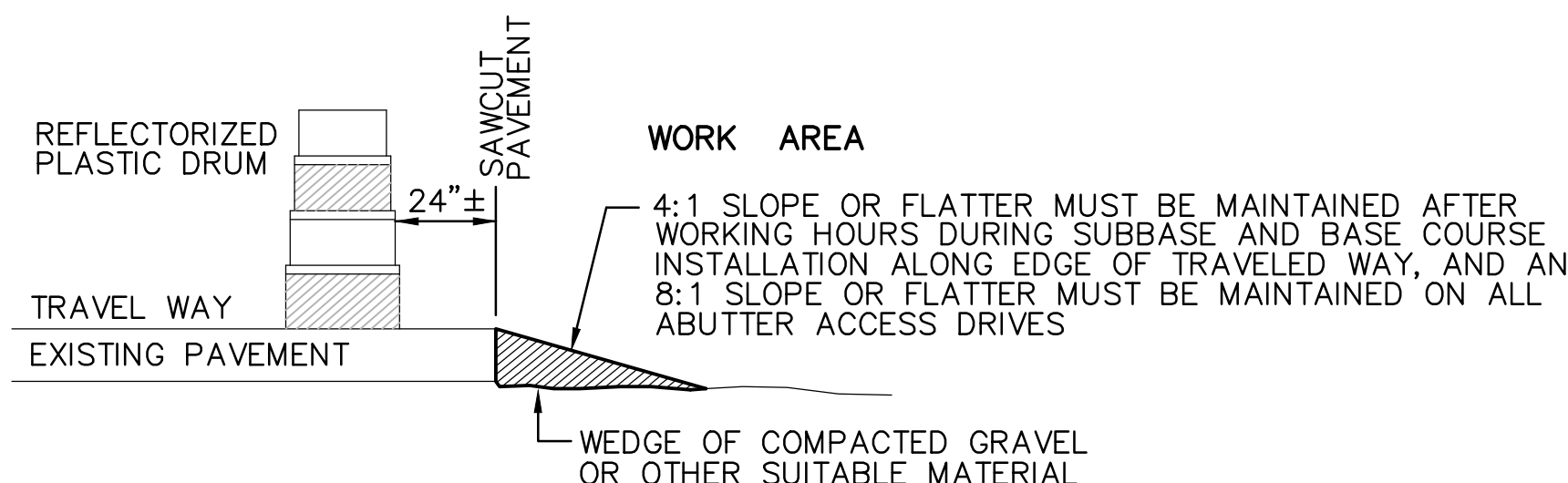
- PAVEMENT MARKINGS WHICH ARE NO LONGER APPLICABLE SHALL BE REMOVED. APPLY TEMPORARY MARKINGS WHERE SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS.
 - EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH TEMPORARY TRAFFIC CONTROLS SHOULD BE COVERED TEMPORARILY WITH BLACKOUT TAPE, AS DIRECTED BY THE ENGINEER, FOR THE FULL DURATION OF THE PHASE IN PROGRESS. TEMPORARY PAINT OR REMOVABLE TAPE MARKINGS SHALL BE USED AS NECESSARY FOR ALL PHASES OF CONSTRUCTION.
- CHANNELIZATION**
- THE MAXIMUM SPACING BETWEEN CHANNELIZATION DEVICES (DRUMS OR CONES) SHALL BE APPROXIMATELY EQUAL IN FEET TO THE POSTED SPEED LIMIT. THE MINIMUM SPACING SHALL BE 20' O.C.
 - REFLECTORIZED CONES SHALL BE MINIMUM 28" HIGH, 36" CONES ARE RECOMMENDED.
 - FLASHING OR STEADY BURN WARNING LIGHTS SHALL ALSO BE USED ON BARRICADES, JERSEY BARRIERS OR WHERE DIRECTED BY THE ENGINEER.
 - PLASTIC DRUMS WITH SOME FORM OF LIGHTING DEVICE MOUNTED ON THEM MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES." IF THEY DO NOT MEET THESE CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.
 - SIGNS AND SIGN SUPPORT LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES." IF THEY DO NOT MEET THIS CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.

TRAFFIC MANAGEMENT LEGEND

- WORK AREA
- DIRECTION OF TRAVEL
- REFLECTORIZED DRUM OR CONE
- POLICE OFFICER CONTROL OR FLAGGER
- PORTABLE TYPE III BARRICADE (4' WIDE, MIN.)
- TEMPORARY CONCRETE BARRIER
- PORTABLE IMPACT ATTENUATOR
- PAVEMENT MARKINGS TO COVER OR REMOVE (SEE NOTE 24)



TEMPORARY RAMP



AFTER WORK HOURS TREATMENT FOR LATERAL SLOPING

**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		19	31
PROJECT FILE NO.		604813	

CONSTRUCTION SIGN SUMMARY

TEMPORARY TRAFFIC CONTROL PLAN

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER		
G20-2	36"	18"	END ROAD WORK			4				4.50	18.00
W8-1	30"	30"	BUMP			2				6.25	12.50
W8-3	30"	30"	PAVEMENT ENDS			2				6.25	12.50
W8-8	30"	30"	ROUGH ROAD			2				6.25	12.50
W13-1	24"	24"	M.P.H.			2				4.00	8.00
W20-1a (1/2 MILE)	36"	36"	ROAD WORK 1/2 MILE			4				9.00	36.00
W20-1 (AHEAD)	36"	36"	ROAD WORK AHEAD			4				9.00	36.00
W1-4 (R&L)	30"	30"	RIGHT TURN			2				6.25	12.50
W20-4	36"	36"	ONE LANE ROAD (XXX FT)			2				9.00	18.00
W20-7a	36"	36"	WORKER AHEAD			2				PAID UNDER ITEM 850.41	
W20-8	36"	36"	POLICE OFFICER AHEAD			2				9.00	18.00
W21-5	36"	36"	SHOULDER WORK			1				9.00	9.00
* R1-2	30"	30"	YIELD			4				6.25	25.00
R2-10a	48"	36"	WORK ZONE SPEEDING FINES DOUBLED			4				12.00	48.00
W5-1	36"	36"	ROAD NARROWS			1				9.00	9.00
* W2-6	30"	30"	ROUNDABOUT			4				6.25	25.00
* W16-17p	24"	12"	ROUNDABOUT			4				2.00	8.00
M4-9a (R&L)	30"	24"	BIKE DETOUR			2				5.00	10.00
R9-9	24"	12"	SIDEWALK CLOSED			2				2.00	4.00
* R6-4	30"	24"	RIGHT TURN			4				5.00	20.00
										TOTAL	342.00

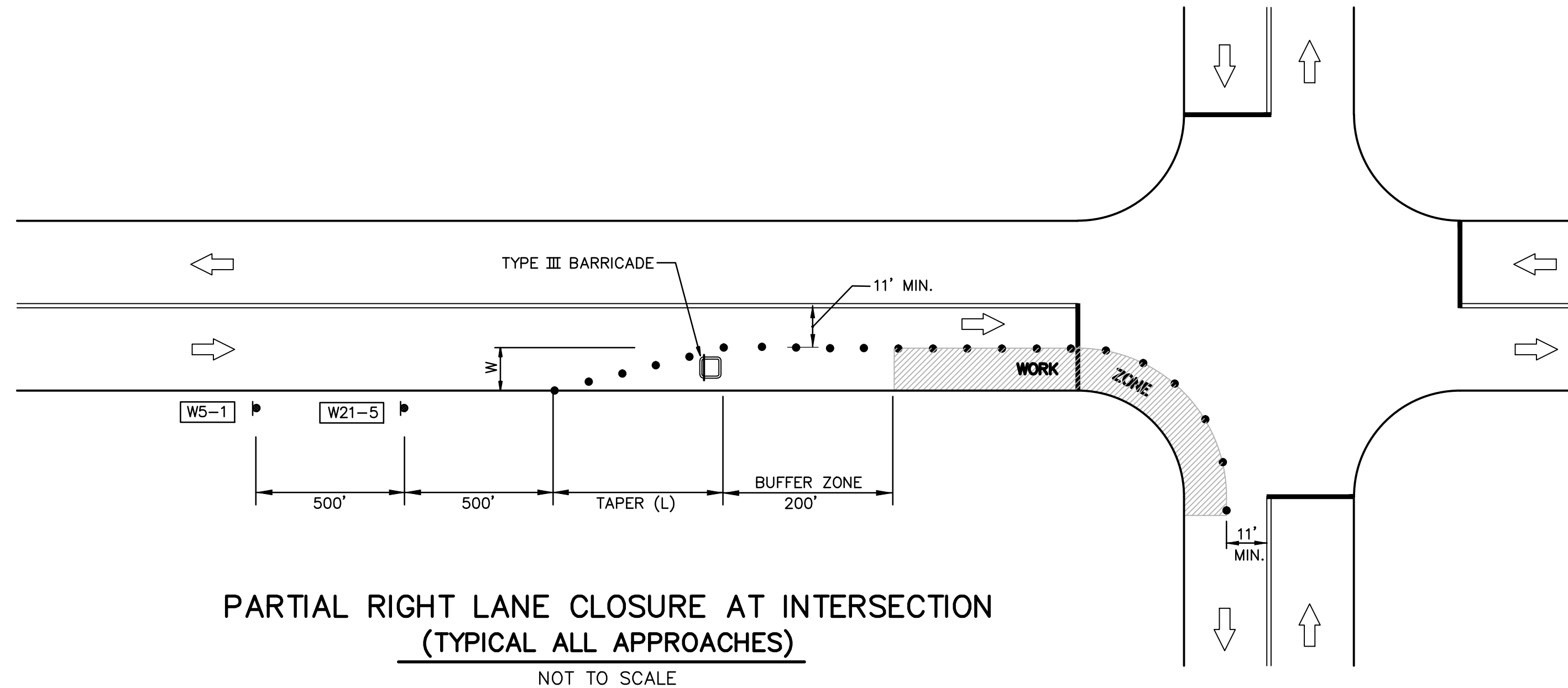
* PERMANENT SIGNAGE MAY BE INSTALLED ONCE THE INTERSECTION BEGINS FUNCTIONING AS A ROUNDABOUT.

IN CHARGE OF: JMD
 DRAWN BY: JFO
 CHECKED BY: GJH/JMD

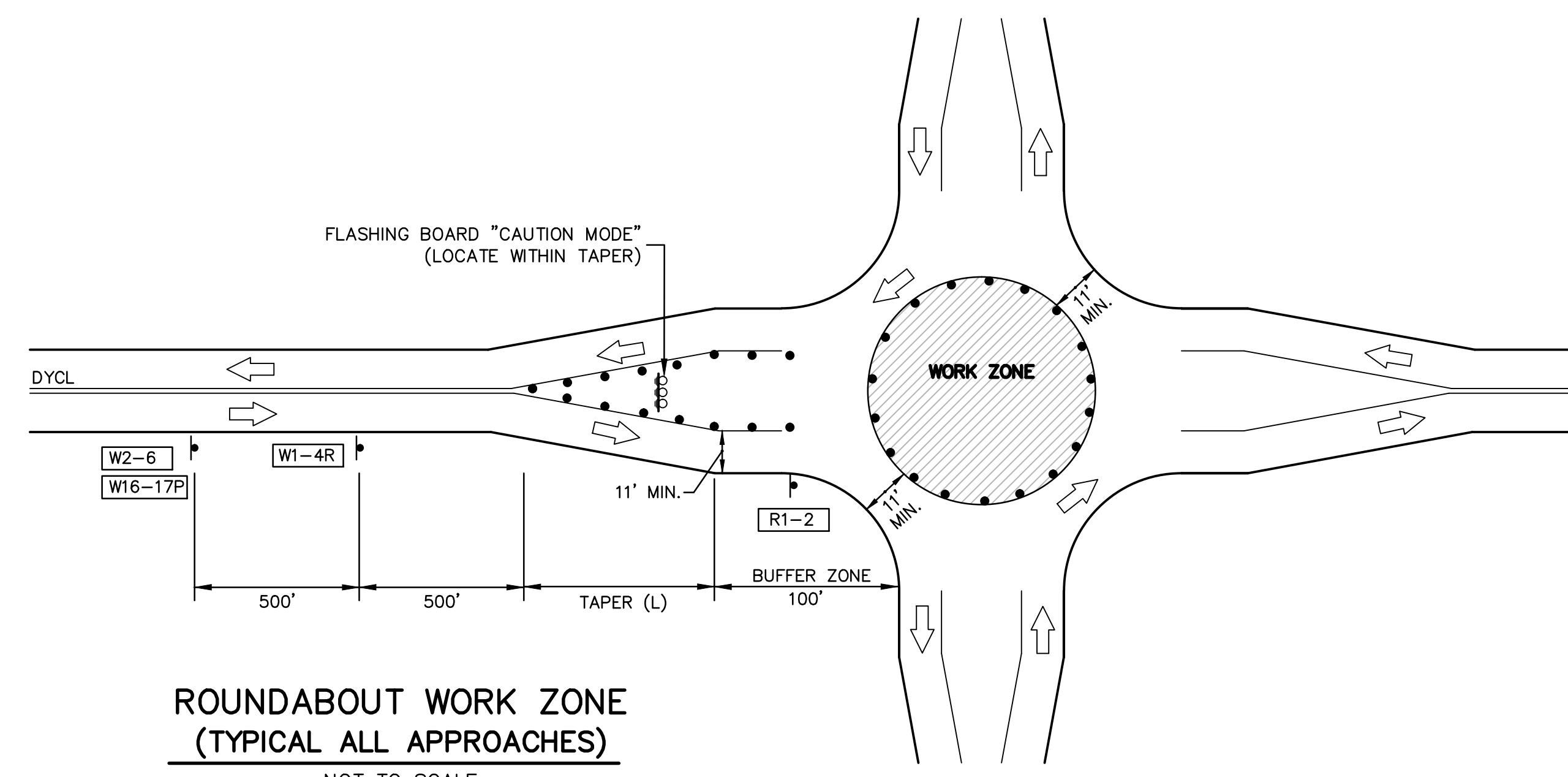
**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		20	31
PROJECT FILE NO.		604813	

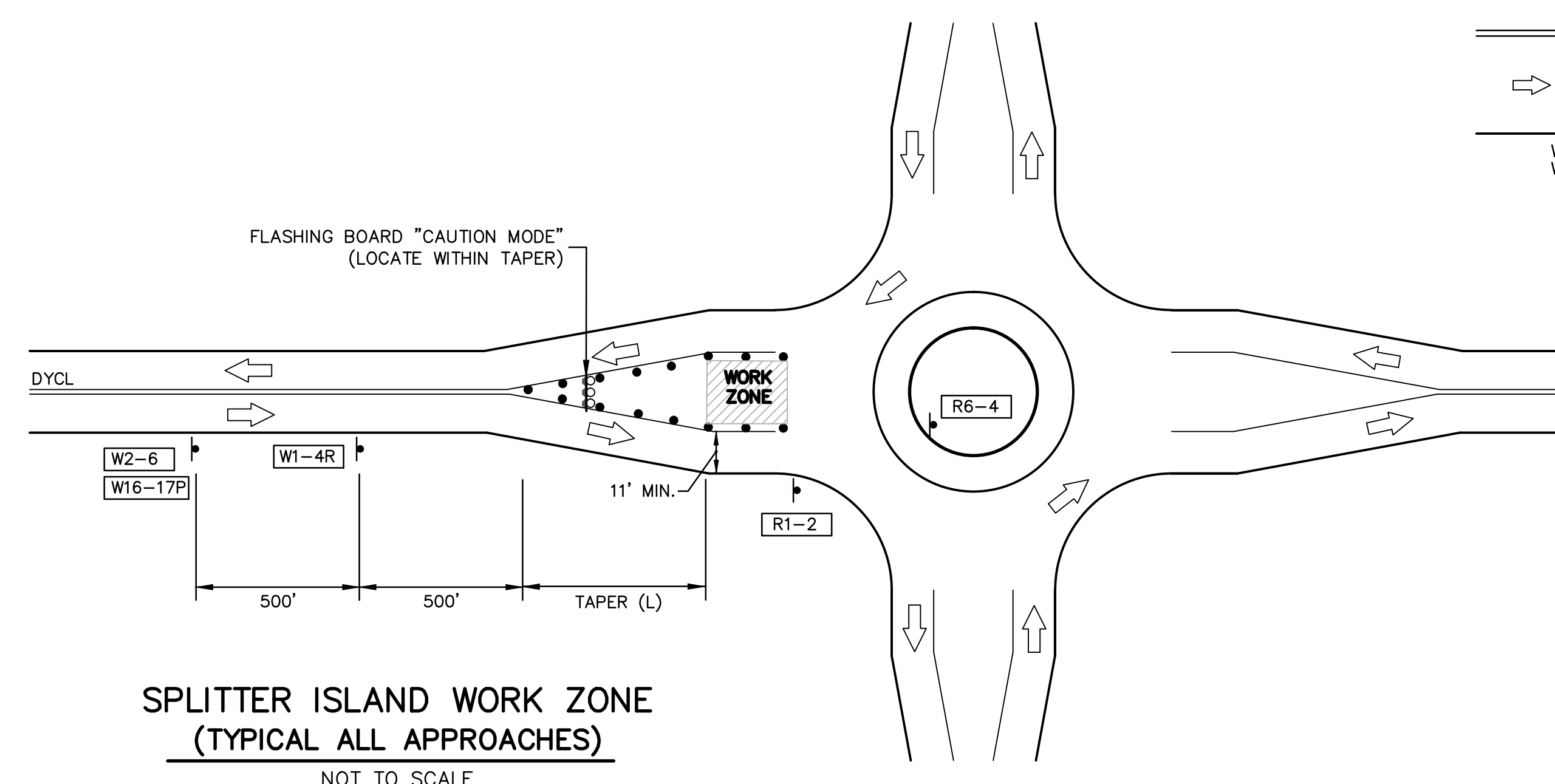
TEMPORARY TRAFFIC CONTROL PLAN



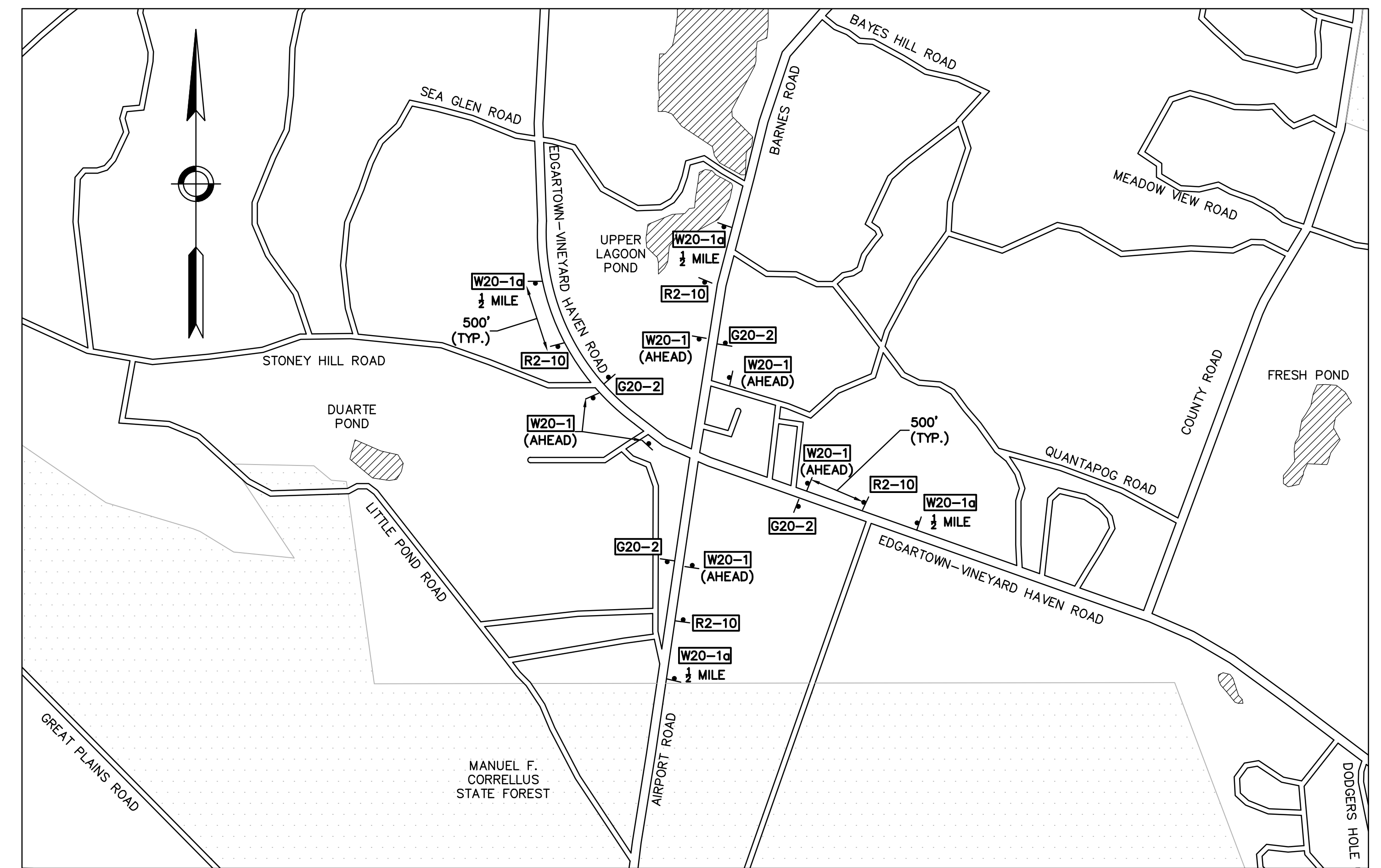
**PARTIAL RIGHT LANE CLOSURE AT INTERSECTION
(TYPICAL ALL APPROACHES)**
NOT TO SCALE



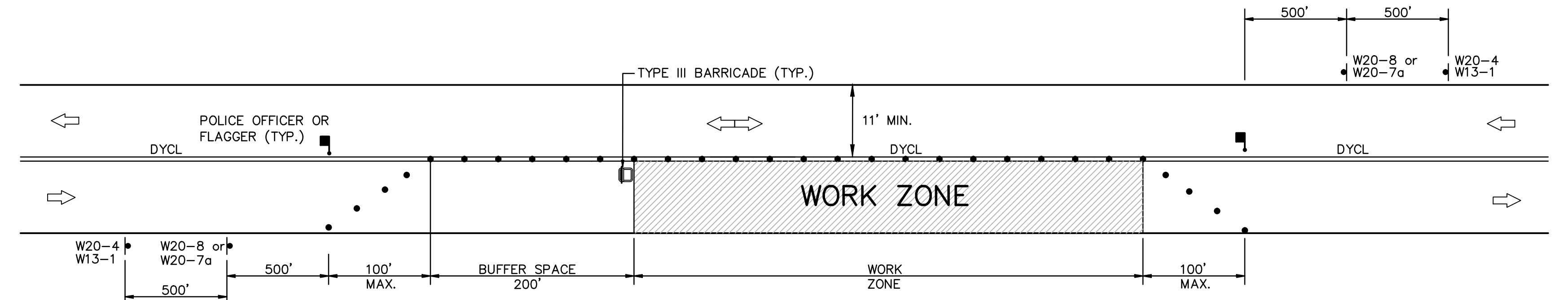
**ROUNDBOUT WORK ZONE
(TYPICAL ALL APPROACHES)**
NOT TO SCALE



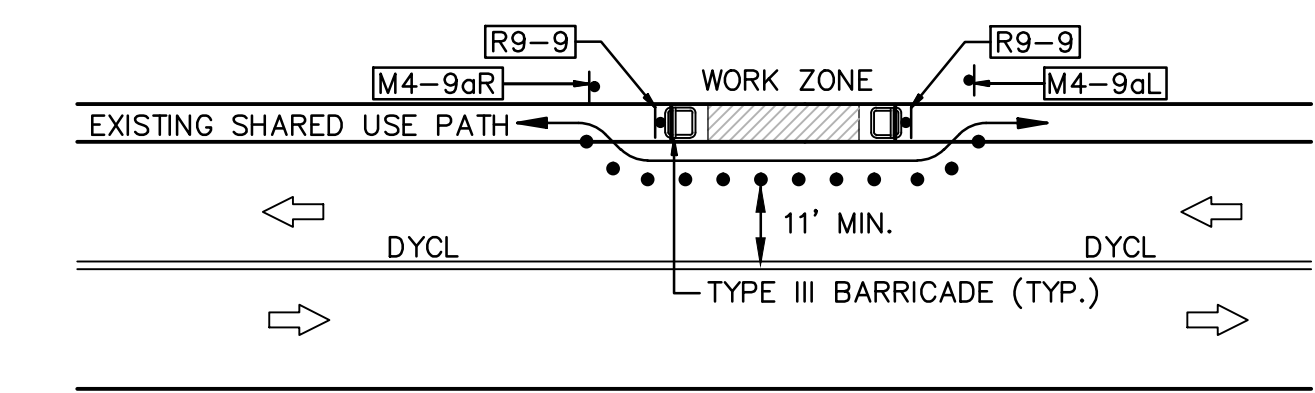
**SPLITTER ISLAND WORK ZONE
(TYPICAL ALL APPROACHES)**
NOT TO SCALE



ADVANCED WARNING SIGN LOCATIONS
1"=1000'



ONE LANE ALTERNATING TRAFFIC WITH FLAGGERS
(RIGHT SIDE WORK ZONE - MIRROR IMAGE FOR LEFT SIDE WORK ZONE)
NOT TO SCALE



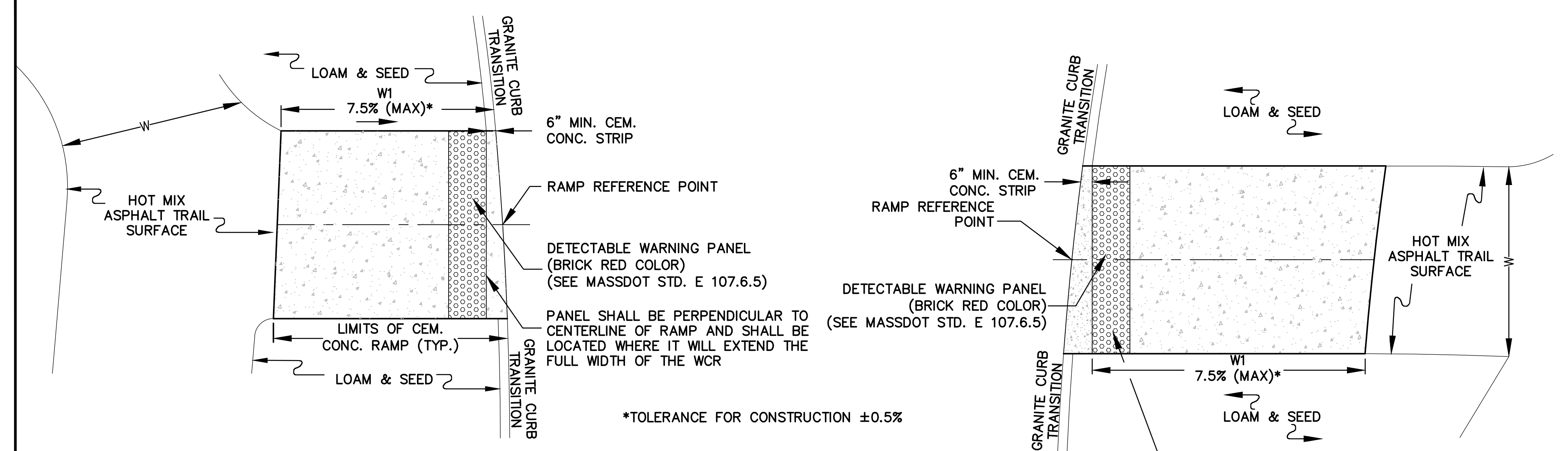
PEDESTRIAN BYPASS
NOT TO SCALE

IN CHARGE OF: JMD
 DRAWN BY: JFO
 CHECKED BY: G/H/JMD

**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

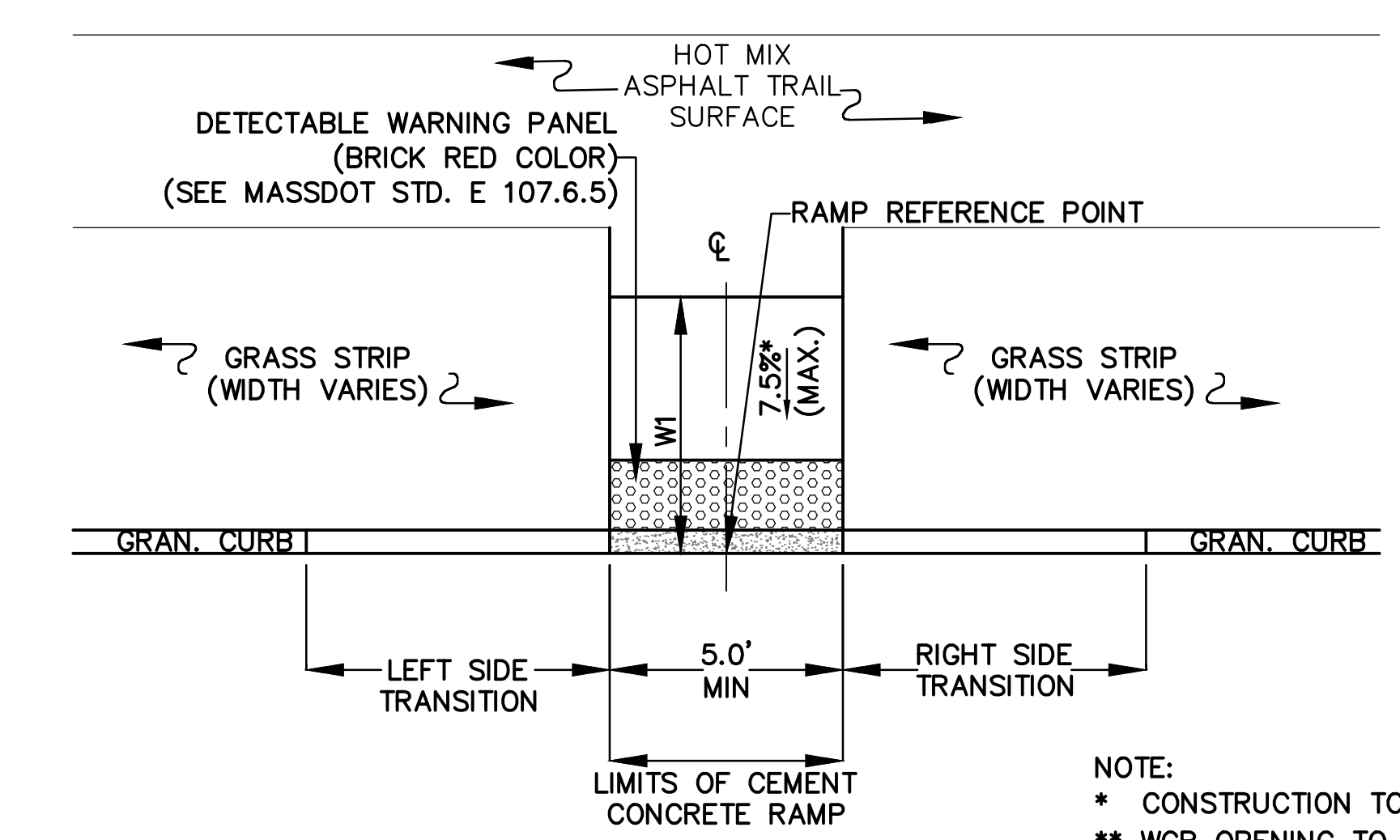
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		22	31
PROJECT FILE NO.		604813	

WHEELCHAIR RAMP DETAILS



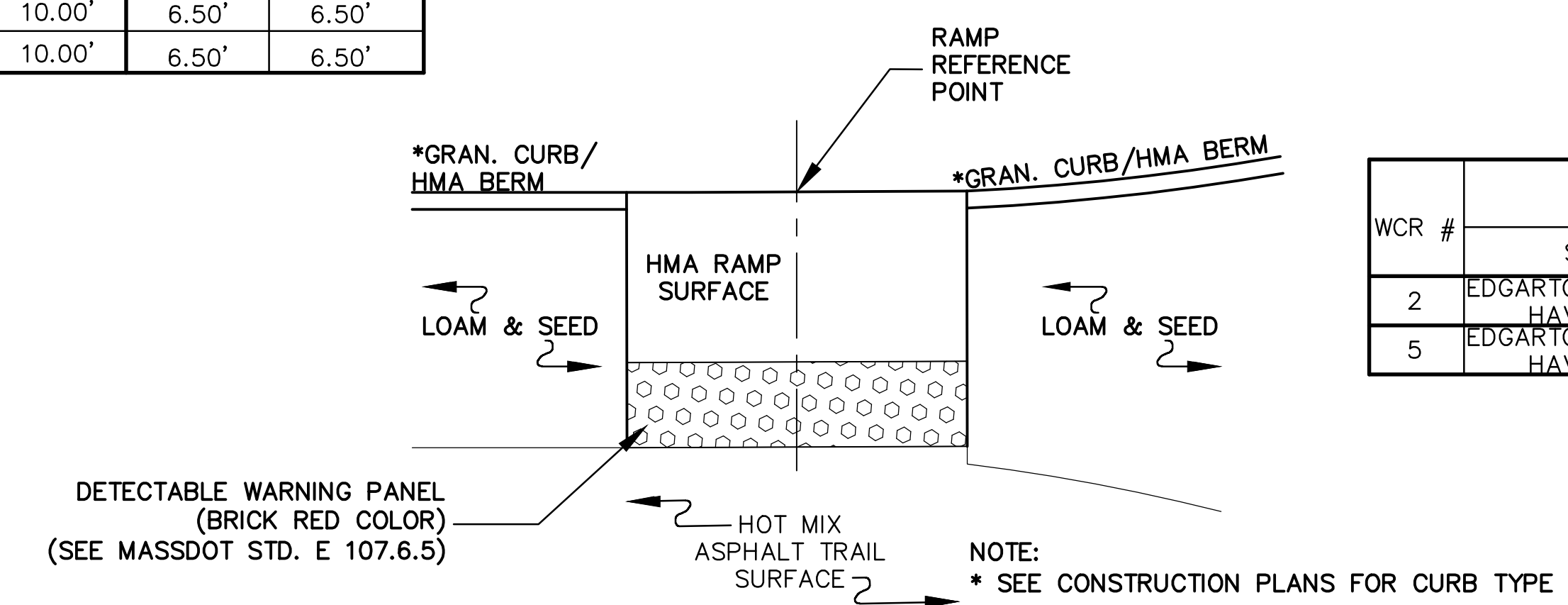
WCR #	STREET	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF RAMP ENTRANCE	TRANSITION LENGTH	
		STATION	OFFSET				LEFT SIDE	RIGHT SIDE
3	AIRPORT ROAD	9+23.15	25.65'	9.84'	10.00'	10.00'	6.50'	6.50'
4	AIRPORT ROAD	9+22.75	18.08'	9.23'	10.00'	10.00'	6.50'	6.50'

**SHARED-USE-PATH
WCR DETAILS**
NOT TO SCALE



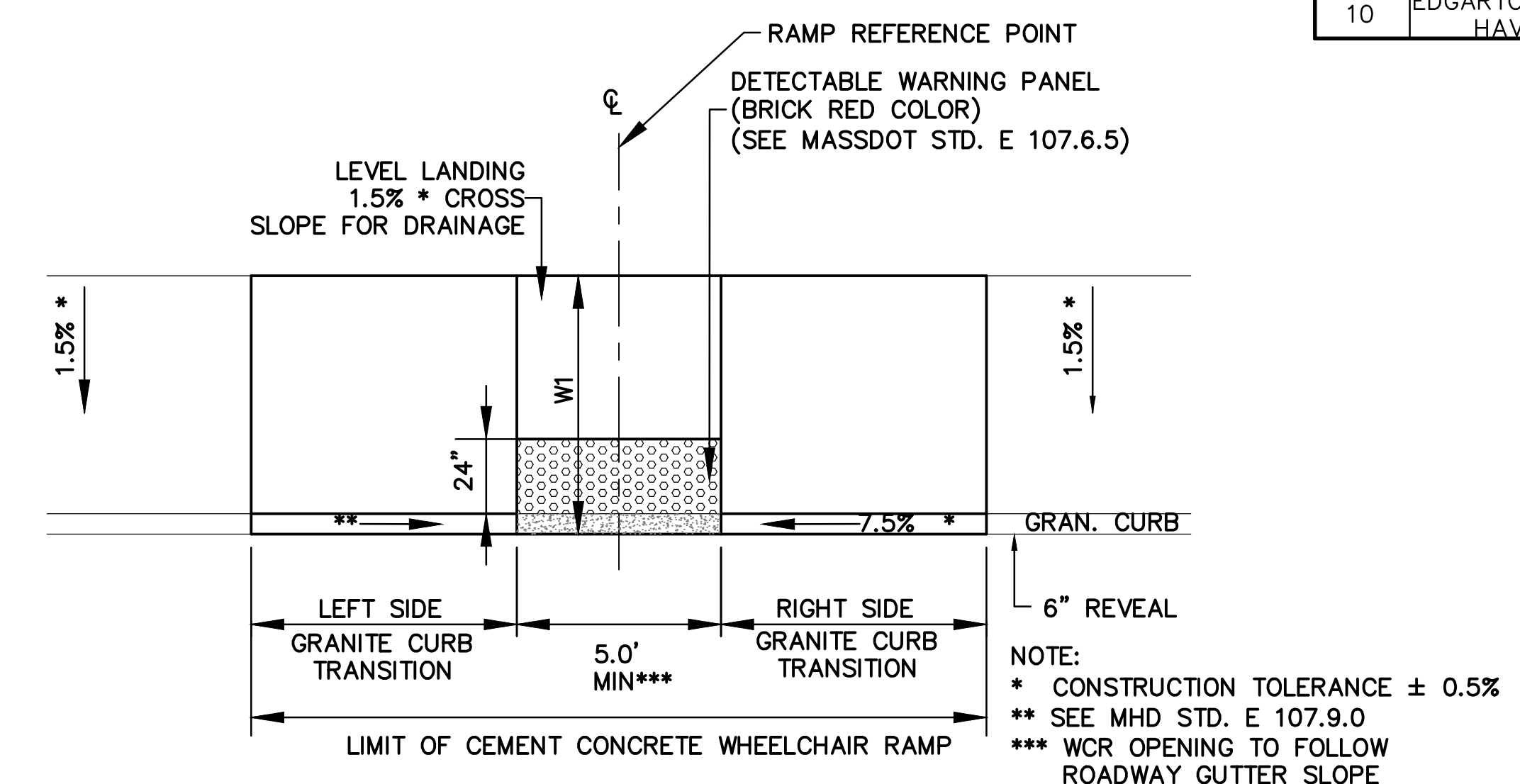
WCR #	STREET	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF RAMP ENTRANCE MIN. 3.25'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
		STATION	OFFSET				LEFT SIDE	RIGHT SIDE
2	EDGARTOWN-VINEYARD HAVEN ROAD	24+44.65	18.99'	6.75'	5.00'	0.80%	6.50'	6.50'
5	EDGARTOWN-VINEYARD HAVEN ROAD	26+07.52	23.26'	6.50'	5.00'	0.43%	6.50'	6.50'

SINGLE DIRECTION
NOT TO SCALE



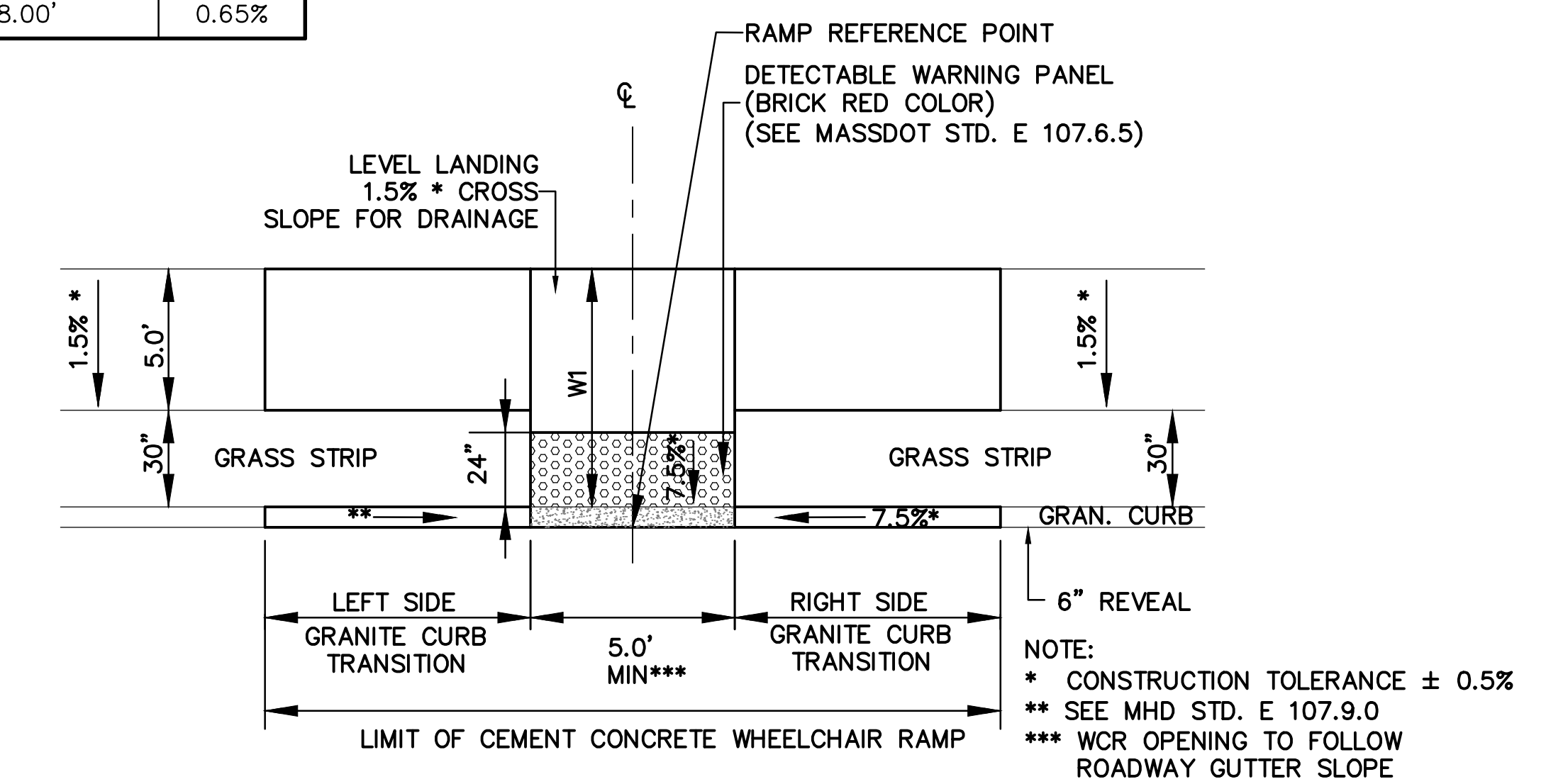
WCR #	STREET	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF RAMP ENTRANCE	ROADWAY GUTTER SLOPE
		STATION	OFFSET				
9	EDGARTOWN-VINEYARD HAVEN ROAD	23+03.27	15.00'	6.00'	10.00'	8.00'	1.56%
10	EDGARTOWN-VINEYARD HAVEN ROAD	26+71.72	15.00'	6.00'	10.00'	8.00'	0.65%

BICYCLE RAMP
NOT TO SCALE



WCR #	STREET	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF RAMP ENTRANCE MIN. 5.0'	DEPTH OF LEVEL LANDING MIN. 4.0'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
		STATION	OFFSET					LEFT SIDE	RIGHT SIDE
6	EDGARTOWN-VINEYARD HAVEN ROAD	26+09.43	19.89'	5.50'	5.26'	5.00'	1.40%	9.00'	6.50'
7	BARNES ROAD	10+82.27	21.48'	5.50'	5.00'	5.00'	0.64%	6.50'	11.00'

**PARALLEL PERPENDICULAR
FOR SIDEWALKS < 6.5'**
NOT TO SCALE



WCR #	STREET	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF RAMP ENTRANCE MIN. 5.0'	DEPTH OF LEVEL LANDING MIN. 4.0'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
		STATION	OFFSET					LEFT SIDE	RIGHT SIDE
1	EDGARTOWN-VINEYARD HAVEN ROAD	24+46.06	24.02'	3.00'	5.27'	5.00'	0.97%	6.50'	6.50'
8	BARNES ROAD	10+83.60	21.63'	3.00'	5.77'	5.00'	0.75%	6.50'	6.50'

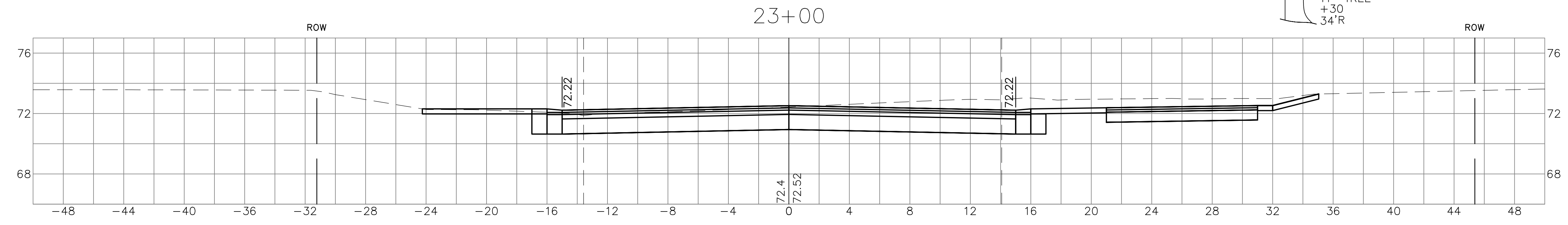
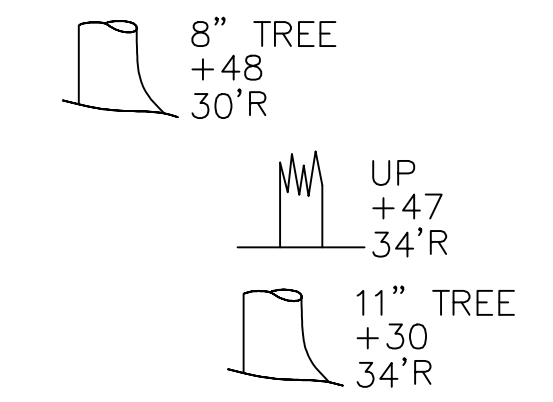
**PARALLEL PERPENDICULAR
FOR SIDEWALKS < 6.5' w/ GRASS STRIP**
NOT TO SCALE

IN CHARGE OF: JMD
 DRAWN BY: JFO
 CHECKED BY: GJH/JMD

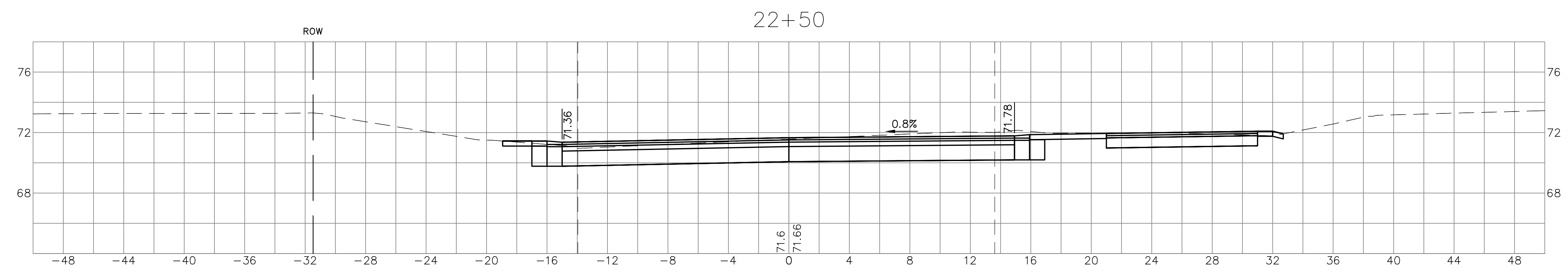
**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		23	31
PROJECT FILE NO.		604813	

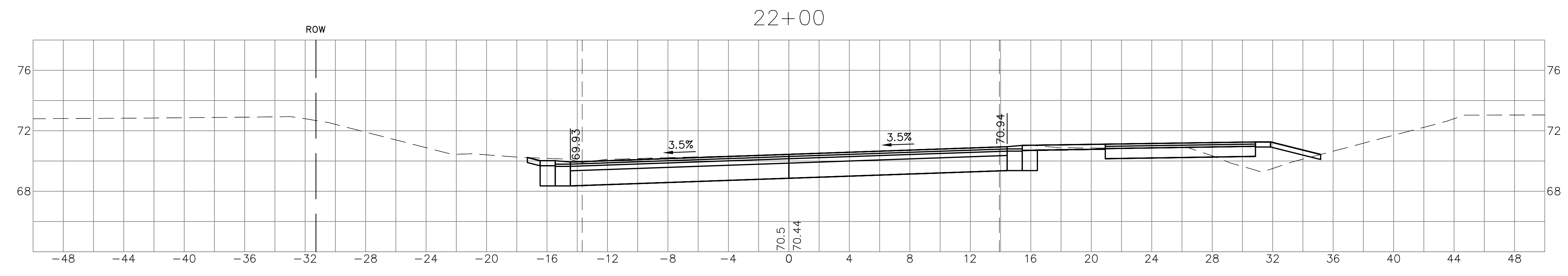
**CROSS SECTIONS
EDGARTOWN-VINEYARD HAVEN ROAD**



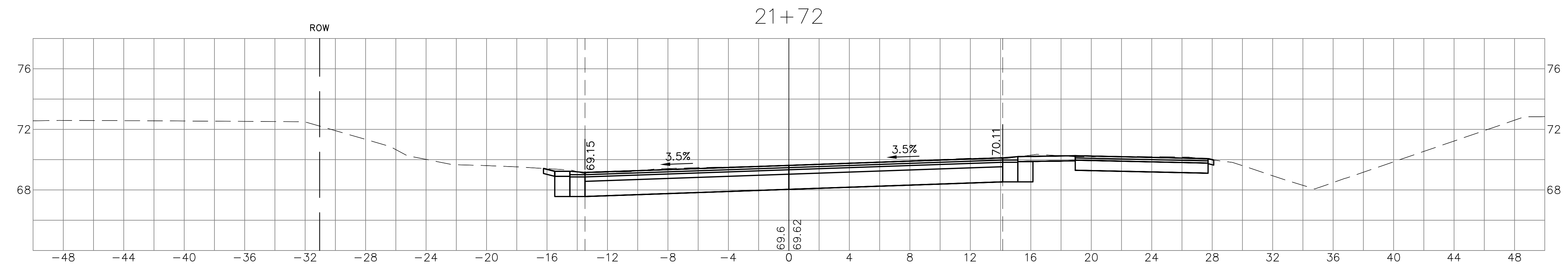
GROUND REMOVED = 78.13 s.f.
GROUND FILL = 0.00 s.f.



GROUND REMOVED = 62.70 s.f.
GROUND FILL = 0.04 s.f.



GROUND REMOVED = 58.60 s.f.
GROUND FILL = 5.08 s.f.



GROUND REMOVED = 60.90 s.f.
GROUND FILL = 0.00 s.f.

SUPERELEVATION
PCC STA. 21+88.59
R=1500.00'
BANK=3.5%

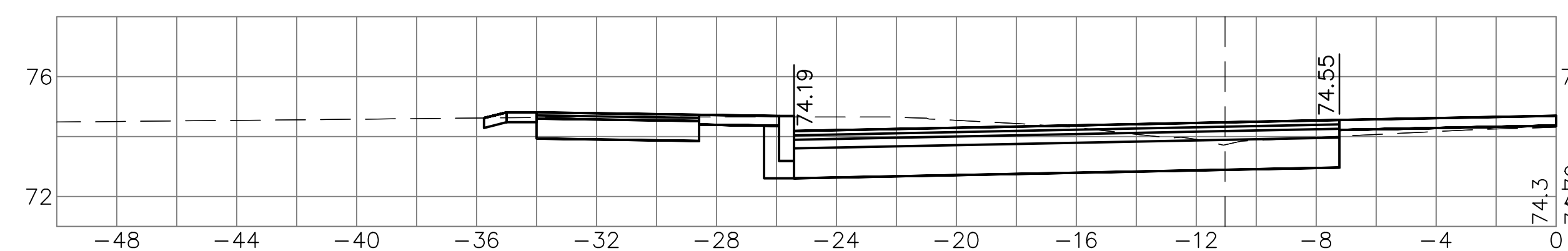
IN CHARGE OF: JMD
DRAWN BY: MDK
CHECKED BY: GJH/JMD

OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		24	31
PROJECT FILE NO.		604813	

CROSS SECTIONS
EDGARTOWN-VINEYARD HAVEN ROAD

24+50 - LEFT



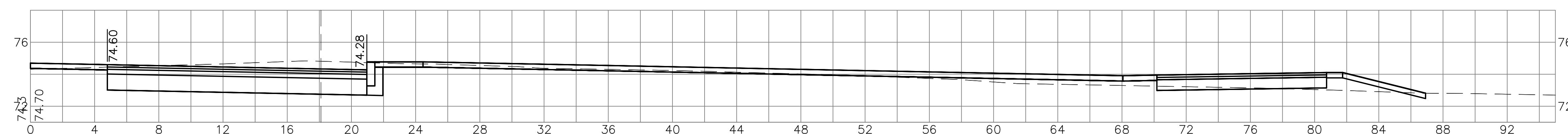
GROUND REMOVED = 79.95 s.f.
GROUND FILL = 5.16 s.f.

UP
+69
66'R

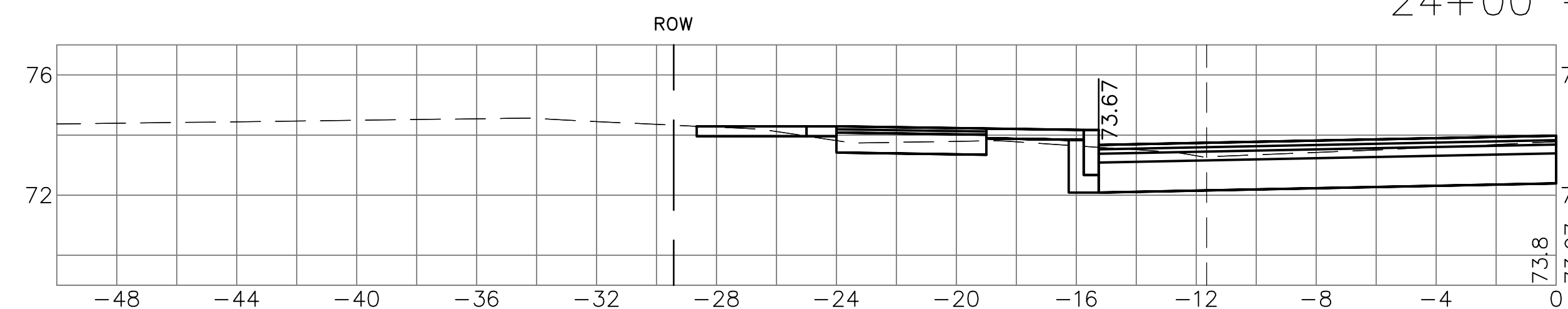
10" TREE
+67
64'R

19" TREE
+62
62'R

24+50 - RIGHT



24+00 - LEFT



GROUND REMOVED = 58.23 s.f.
GROUND FILL = 2.82 s.f.

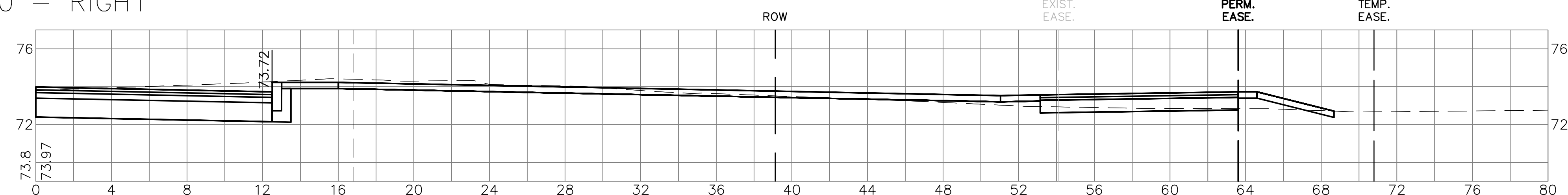
19" TREE
+22
49'R

EXIST. EASE.

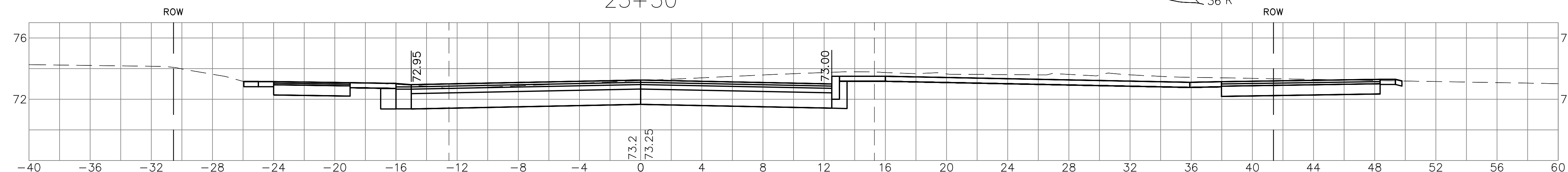
PERM. EASE.

TEMP. EASE.

24+00 - RIGHT



23+50



GROUND REMOVED = 83.30 s.f.
GROUND FILL = 0.00 s.f.

12" TREE
+58
36'R

8" TREE
+80
49'R

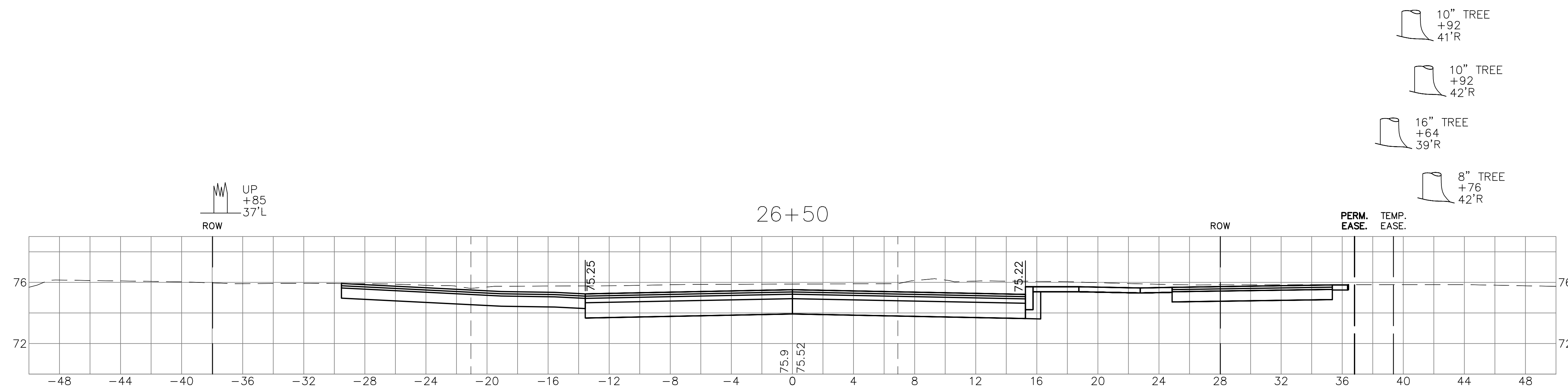
IN CHARGE OF
DRAWN BY
CHECKED BY

JMD
MDK
MDK
G.J.H./JMD

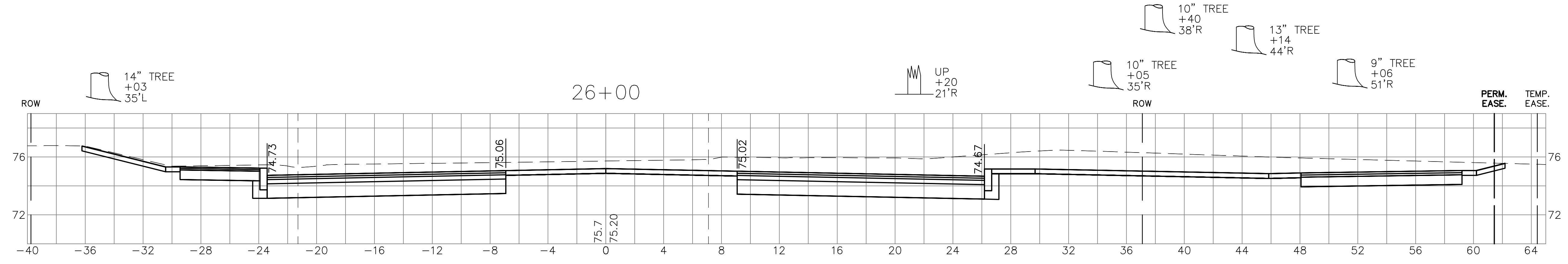
**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		25	31
PROJECT FILE NO.		604813	

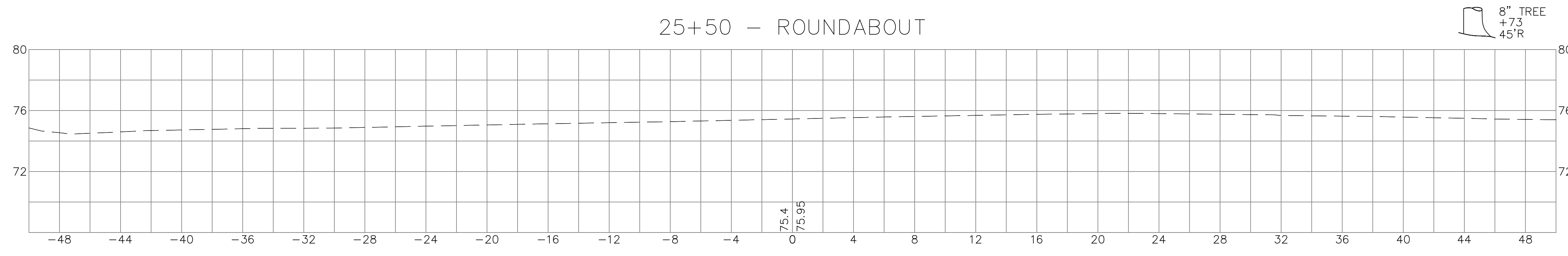
**CROSS SECTIONS
EDGARTOWN-VINEYARD HAVEN ROAD**



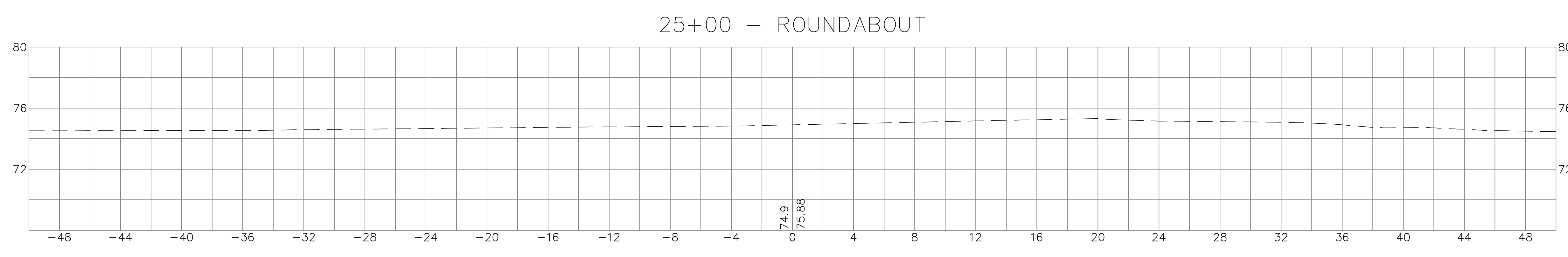
GROUND REMOVED = 104.08 s.f.
GROUND FILL = 0.00 s.f.



GROUND REMOVED = 165.90 s.f.
GROUND FILL = 0.00 s.f.



NOTE: SEE TYPICAL SECTION
AND GRADING PLAN FOR
ROUNDABOUT DETAILS



NOTE: SEE TYPICAL SECTION
AND GRADING PLAN FOR
ROUNDABOUT DETAILS

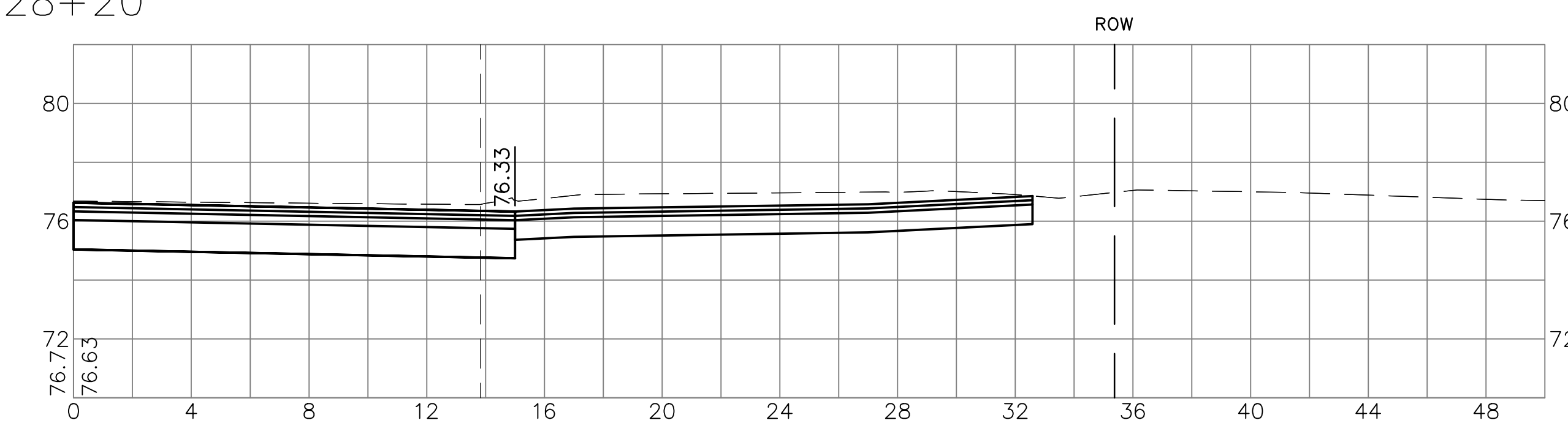
IN CHARGE OF: JMD
 DRAWN BY: MKK
 CHECKED BY: G.J.H./JMD

OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		26	31
PROJECT FILE NO.		604813	

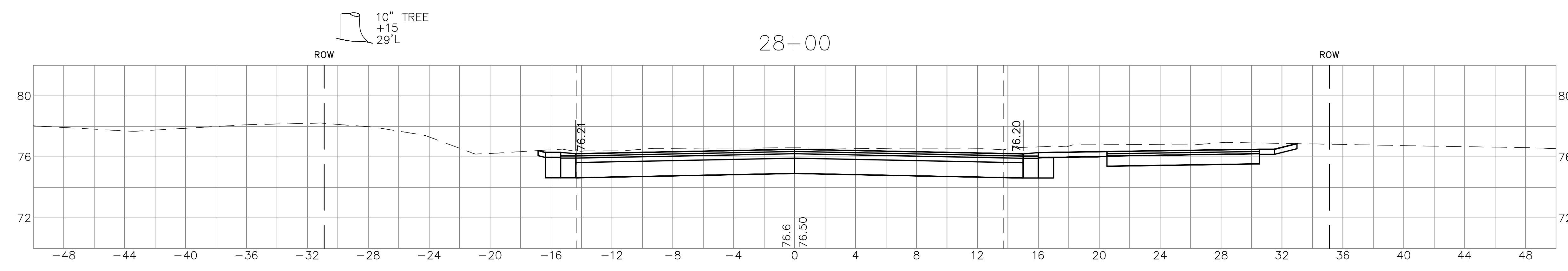
CROSS SECTIONS
EDGARTOWN-VINEYARD HAVEN ROAD

28+20



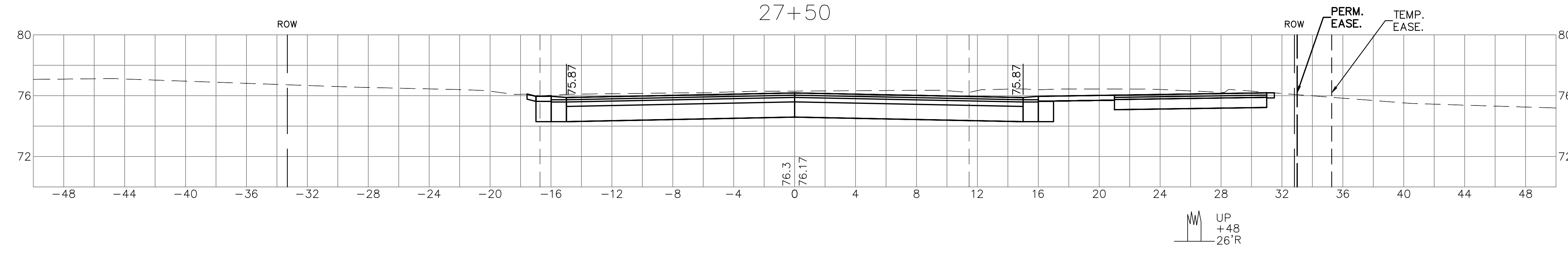
GROUND REMOVED = 52.04 s.f.
GROUND FILL = 0.00 s.f.

28+00



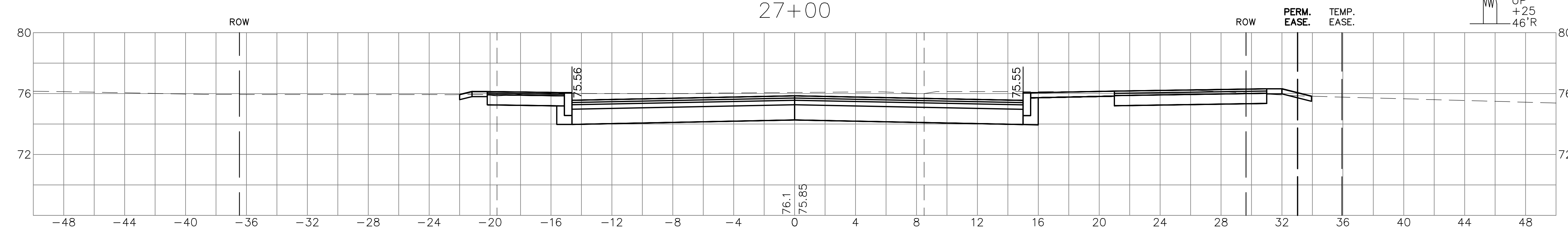
GROUND REMOVED = 77.80 s.f.
GROUND FILL = 0.00 s.f.

27+50



GROUND REMOVED = 78.13 s.f.
GROUND FILL = 0.00 s.f.

27+00



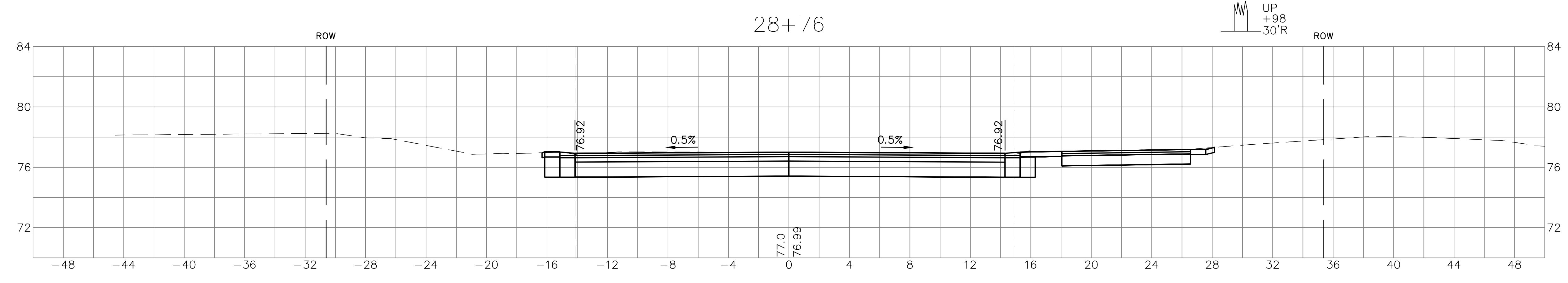
GROUND REMOVED = 75.84 s.f.
GROUND FILL = 0.06 s.f.

IN CHARGE OF: JMD
 DRAWN BY: MDK
 CHECKED BY: G.J.H./JMD

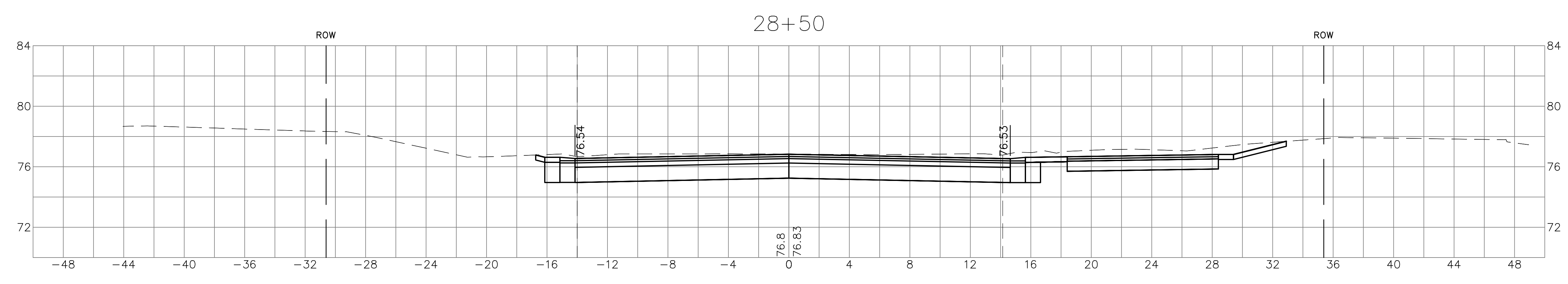
OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		27	31
PROJECT FILE NO.		604813	

CROSS SECTIONS
EDGARTOWN-VINEYARD HAVEN ROAD



GROUND REMOVED = 61.72 s.f.
GROUND FILL = 0.00 s.f.



GROUND REMOVED = 74.90 s.f.
GROUND FILL = 0.00 s.f.

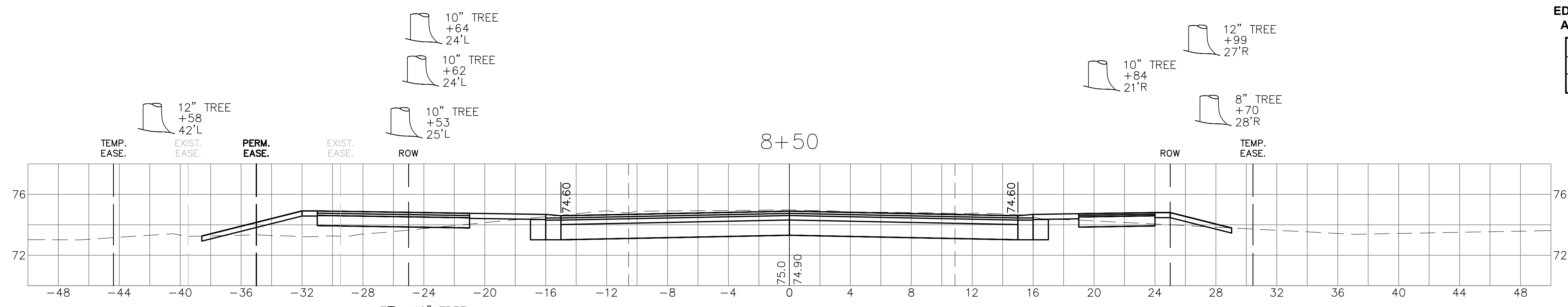
IN CHARGE OF: JMD
DRAWN BY: MDK
CHECKED BY: GJH/JMD

**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

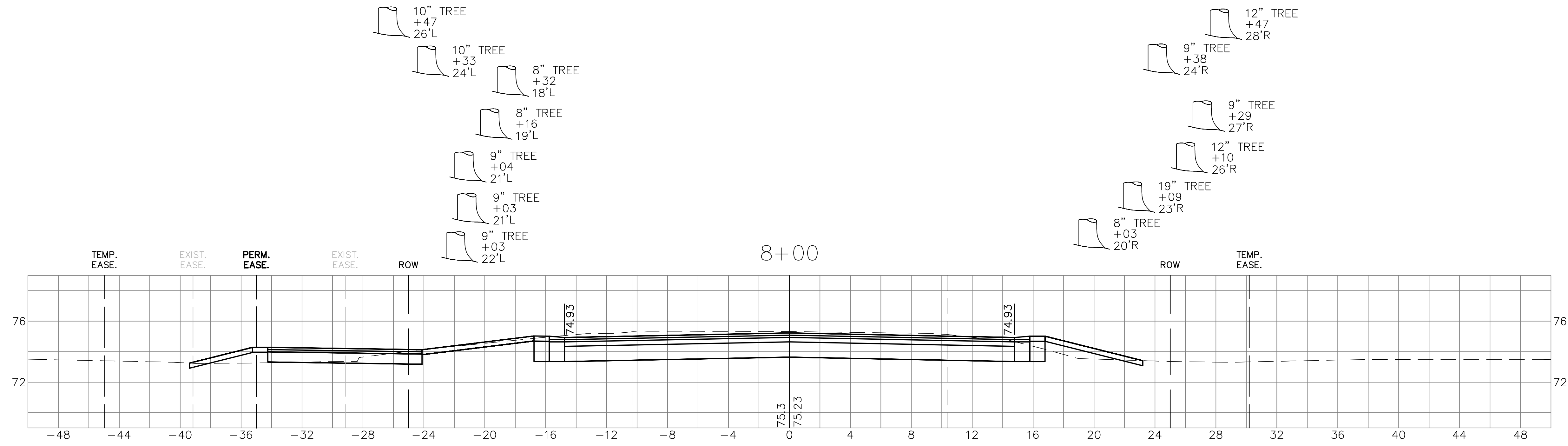
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		28	31

PROJECT FILE NO. 604813

**CROSS SECTIONS
AIRPORT ROAD & BARNES ROAD**

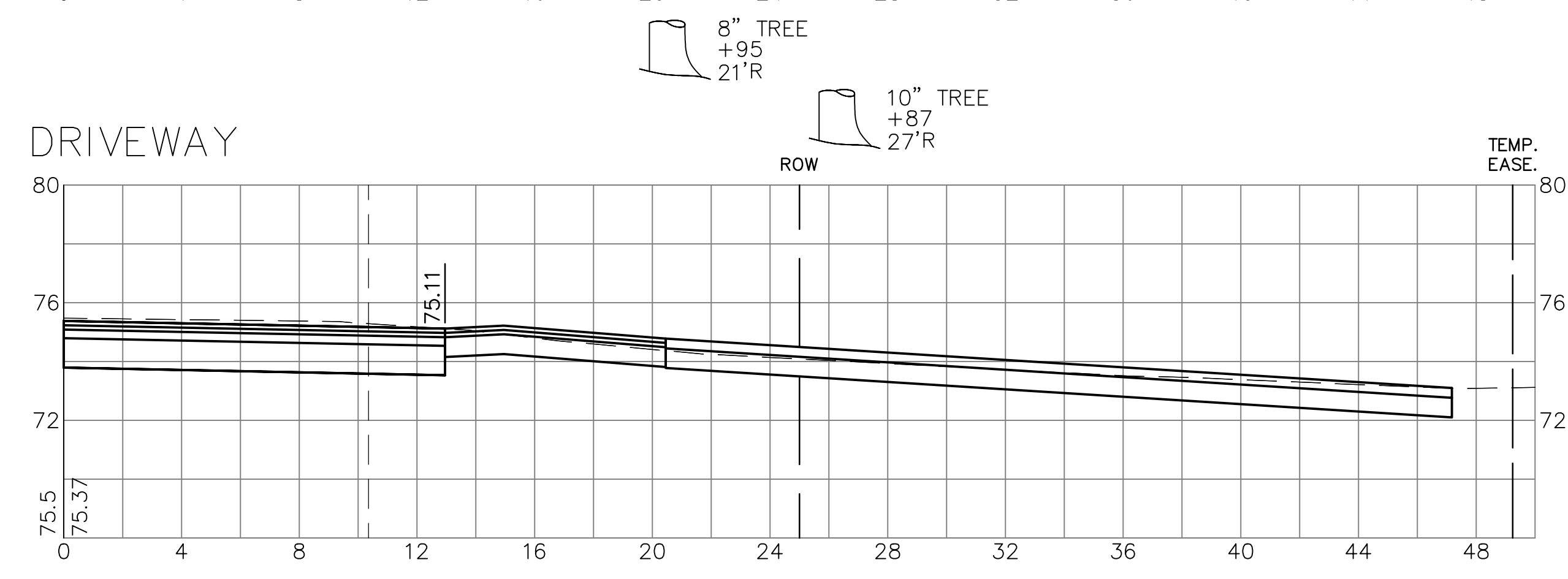


GROUND REMOVED = 59.27 s.f.
GROUND FILL = 10.35 s.f.

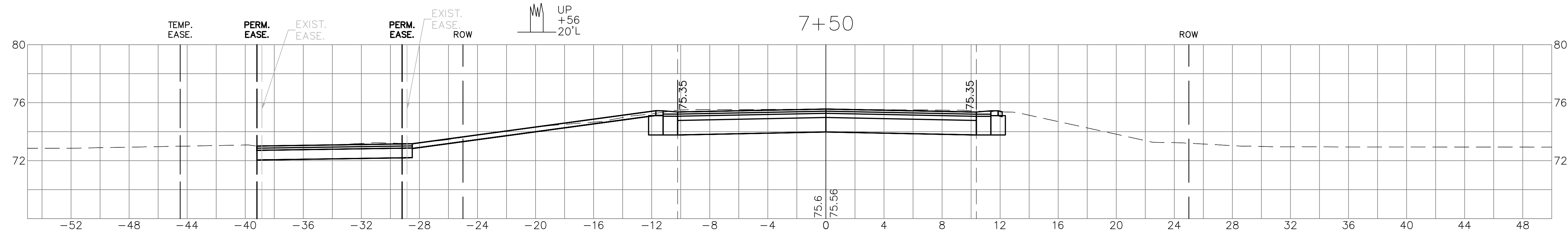


GROUND REMOVED = 62.22 s.f.
GROUND FILL = 4.53 s.f.

7+78 DRIVEWAY



GROUND REMOVED = 47.19 s.f.
GROUND FILL = 0.00 s.f.



GROUND REMOVED = 55.08 s.f.
GROUND FILL = 0.00 s.f.

IN CHARGE OF
DRAWN BY
CHECKED BY

JMD
MDK
MDK
G.J.H./JMD

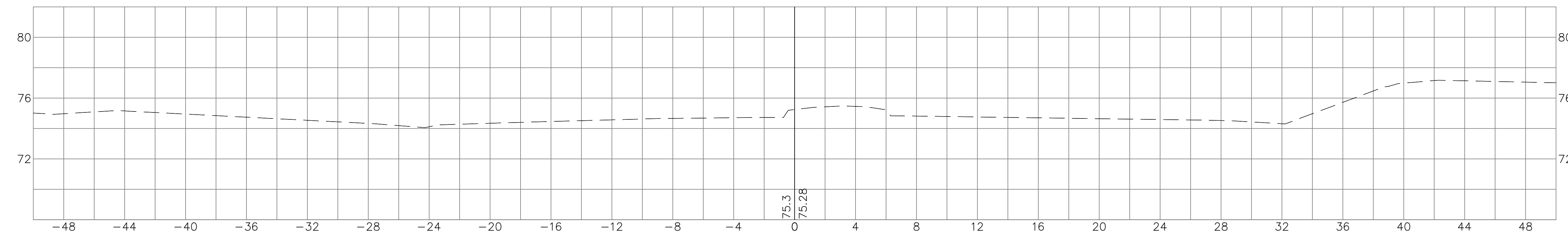
**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		29	31
PROJECT FILE NO.		604813	

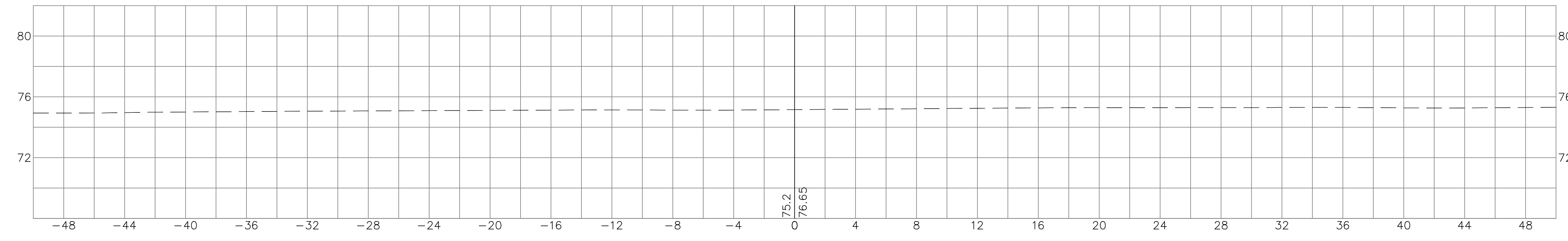
**CROSS SECTIONS
AIRPORT ROAD & BARNES ROAD**

NOTE: SEE TYPICAL SECTION AND GRADING PLAN FOR ROUNDABOUT DETAILS

10+50 - ROUNDABOUT

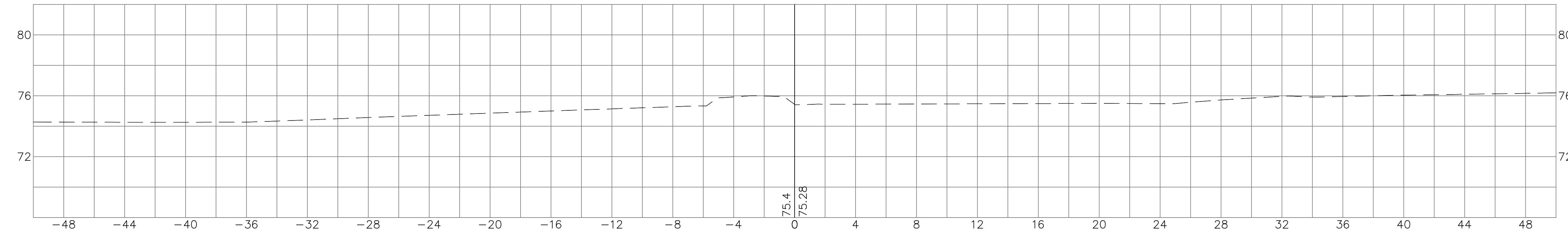


10+00 - ROUNDABOUT



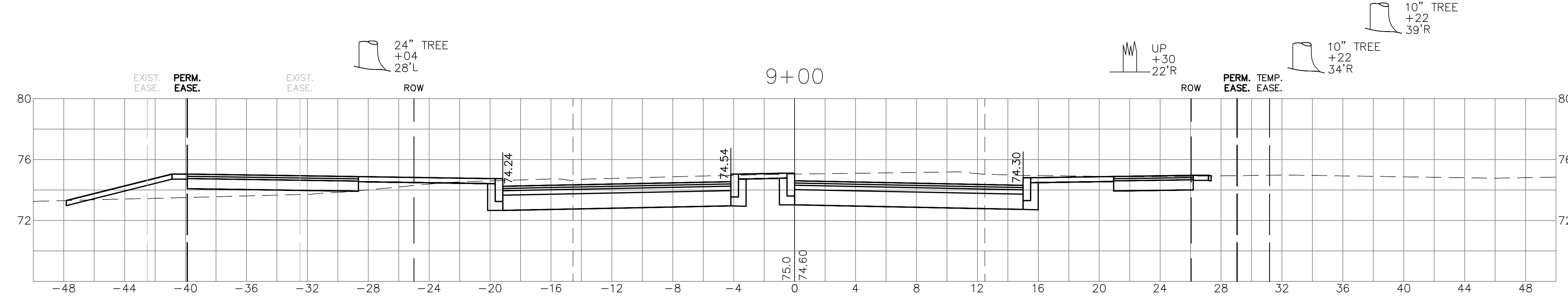
NOTE: SEE TYPICAL SECTION AND GRADING PLAN FOR ROUNDABOUT DETAILS

9+50 - ROUNDABOUT



NOTE: SEE TYPICAL SECTION AND GRADING PLAN FOR ROUNDABOUT DETAILS

9+00



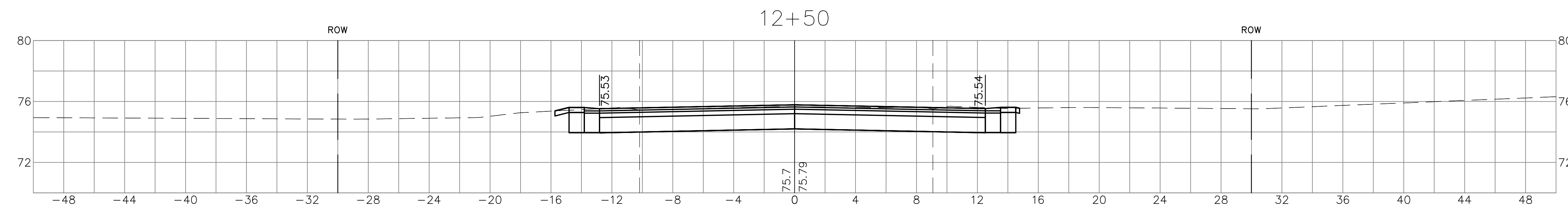
GROUND REMOVED = 79.40 s.f.
GROUND FILL = 10.00 s.f.

IN CHARGE OF: JMD
DESIGNED BY: MDK
DRAWN BY: MDK
CHECKED BY: GJH/JMD

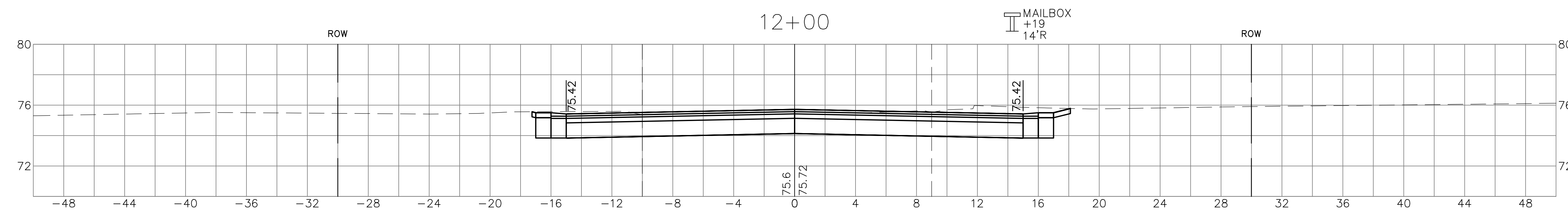
**OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		30	31
PROJECT FILE NO.		604813	

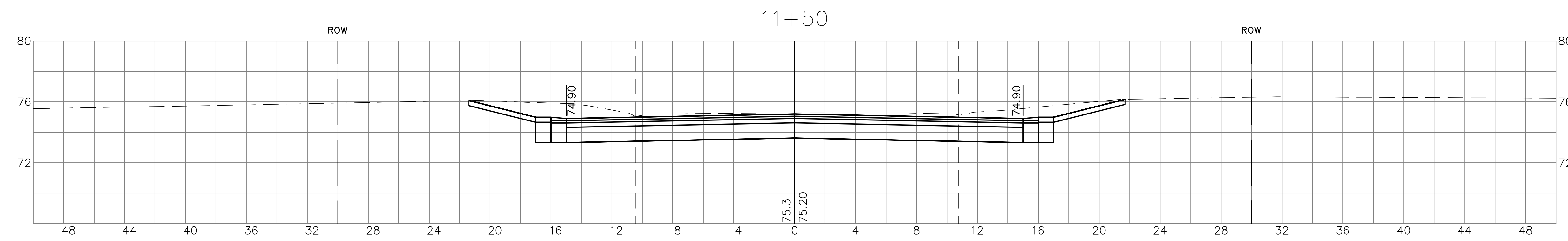
**CROSS SECTIONS
AIRPORT ROAD & BARNES ROAD**



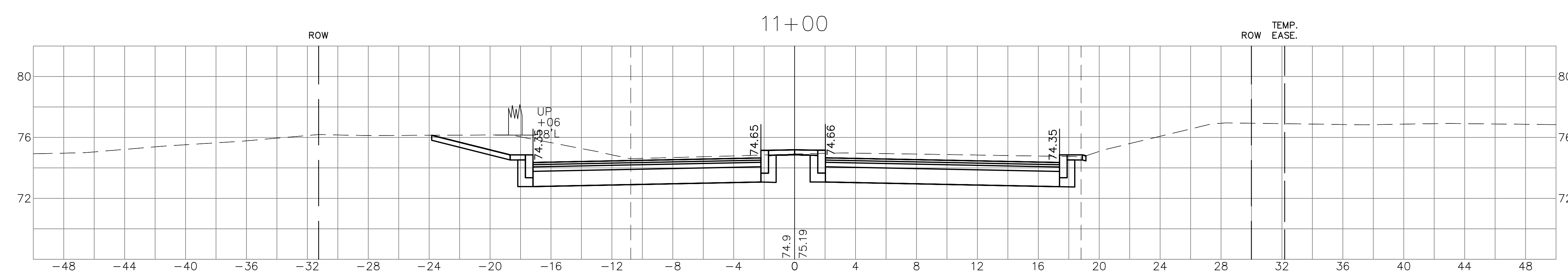
GROUND REMOVED = 44.80 s.f.
GROUND FILL = 0.00 s.f.



GROUND REMOVED = 55.63 s.f.
GROUND FILL = 0.00 s.f.



GROUND REMOVED = 71.54 s.f.
GROUND FILL = 0.00 s.f.



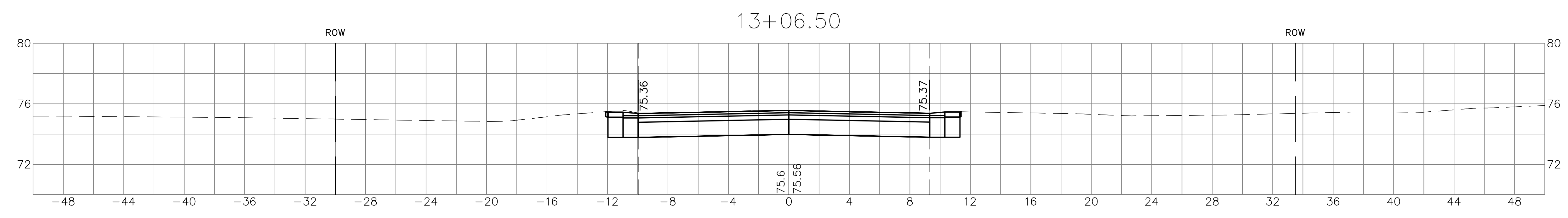
GROUND REMOVED = 86.82 s.f.
GROUND FILL = 0.00 s.f.

IN CHARGE OF: JMD
 DRAWN BY: MDK
 CHECKED BY: GJH/JMD

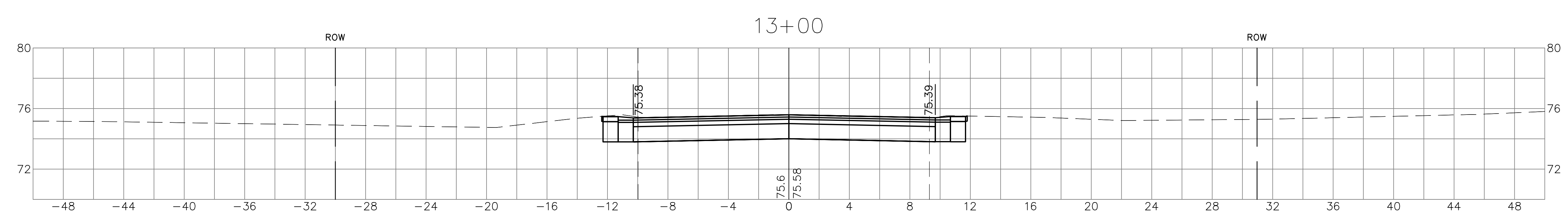
OAK BLUFFS
EDGARTOWN-VINEYARD HAVEN ROAD
AT AIRPORT ROAD & BARNES ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		31	31
PROJECT FILE NO.		604813	

CROSS SECTIONS
AIRPORT ROAD & BARNES ROAD



GROUND REMOVED = 37.37 s.f.
GROUND FILL = 0.00 s.f.



GROUND REMOVED = 38.64 s.f.
GROUND FILL = 0.00 s.f.

IN CHARGE OF _____
DRAWN BY _____
CHECKED BY _____