

GOVERNMENT OF THE VIRGIN ISLANDS
OF THE UNITED STATES



DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE CONSTRUCTION OF
MELVIN EVANS HIGHWAY PAVEMENT REHABILITATION
PROJECT NO. VI-0066(015) ROUTE 66 (SEGMENT IV)

DESCRIPTION OF PROJECT:

PAVEMENT REHABILITATION, RESTORATION,
RESURFACING, DRAINAGE RESTORATION,
GUARDRAIL, VIDEO DETECTION AND OTHER
MISCELLANEOUS WORK

PROJECT LENGTH

ROUTE 66: 1.78 MILES

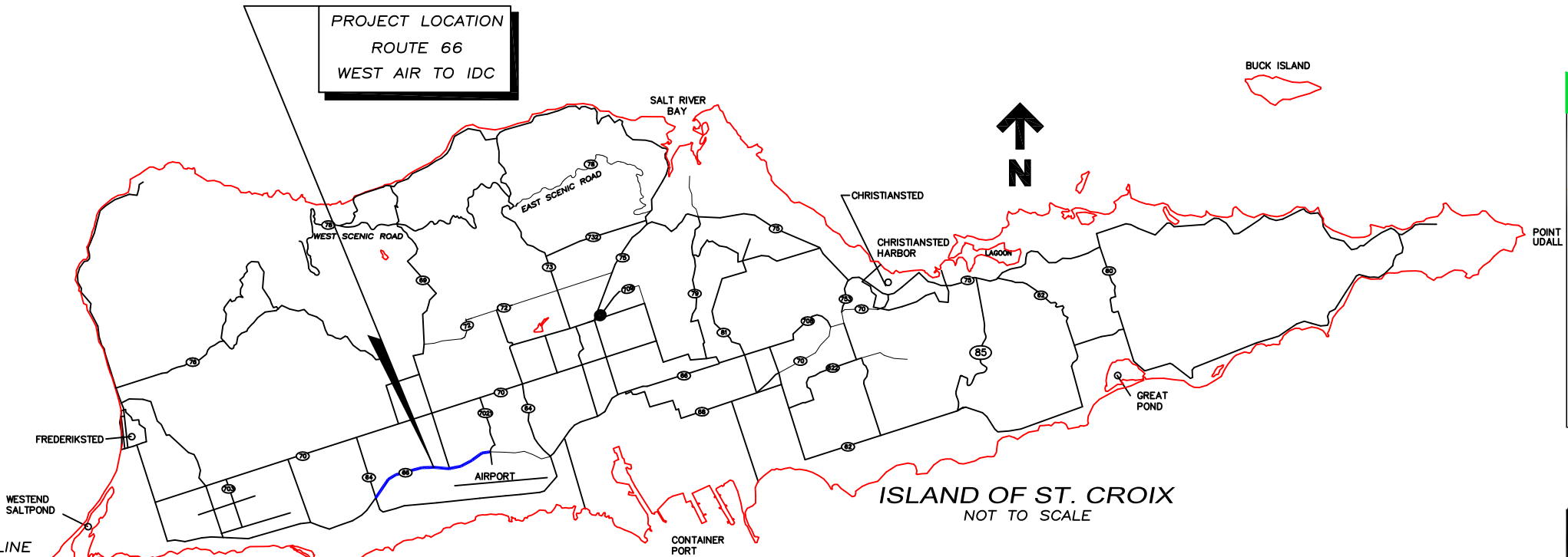
FUNCTIONAL CLASS

ROUTE 66
MAJOR ARTERIAL
ADT..... 9,760
DHV..... 979
D..... 50/50
V(MPH)..... 55
E..... 2%

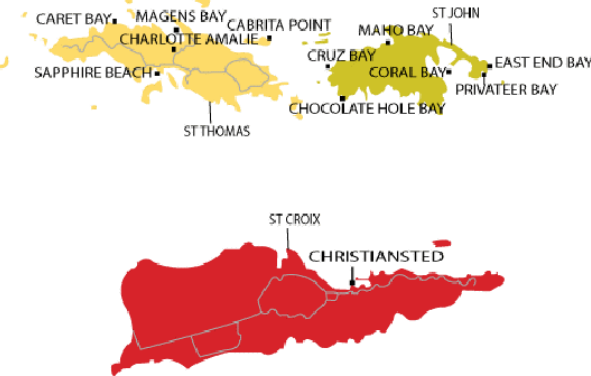
LEGEND

- WV WATER VALVE
WM WATER METER
WL WATER LINE
HYDRANT
POWER POLE
LIGHT POLE
FENCE LINE
BARBED WIRE LINE
GUARDRAIL
BOUNDRY
EXISTING TREE
EXISTING SIGN
NEW SIGN
FIBER UNDERGROUND TELEPHONE LINE
ELEC UNDERGROUND ELECTRICAL LINE
TELE UNDERGROUND TELEPHONE LINE
UNDERGROUND WASTE LINE
UNDERGROUND ELECTRICAL LINE MANHOLE
UNDERGROUND VINGN DATA LINE MANHOLE
UNDERGROUND COMMUNICATION LINE MANHOLE
EXISTING DRAINAGE INLET
EXISTING CURB DRAINAGE INLET
PAVEMENT MILLING AND PAVING
ROADWAY RECONSTRUCTION
PAVEMENT MILLING ADDITIONAL DEPTH
GROUTED RIPRAP CLASS I

PROJECT LOCATION
ROUTE 66
WEST AIR TO IDC



VIRGIN ISLANDS US



INDEX TO SHEETS

SHEET	DESCRIPTION
A1	TITLE SHEET
A2	GENERAL LOCATION MAP
B1	SUMMARY OF QUANTITIES
B2	GENERAL NOTES
C1-C7	TYPICAL CROSS SECTIONS
D1-D13	PLAN MELVIN EVANS (PHASE IV)
E1-E4	STRIPING AND TRAFFIC VIDEO DETECTION SYSTEM
F1-F17	STANDARD DETAILS
F18-F26	TEMPORARY TRAFFIC CONTROL

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH
STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND
BRIDGES ON FEDERAL HIGHWAY PROJECTS FP-14.

SECTION W (CONSTRUCTION PLANS) ATTACHMENT 1



DEPARTMENT OF PUBLIC WORKS

OFFICE OF HIGHWAY ENGINEERING
6002 ESTATE ANNA'S HOPE
ST. CROIX, USVI

Approved: _____ Date _____
Gustav James, P.E.
Commissioner Designee:
Department of Public Works

DESIGNED BY:
OFFICE OF HIGHWAY ENGINEERING

MELVIN EVANS HIGHWAY PAVEMENT PRESERVATION (SEGMENT IV)

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	B1	54

7/31/2017

ROUTE & LOCATION				
ITEM NO.	DESCRIPTION	UNIT	RT66 MEH	TOTAL
15101-0000	Mobilization	LS	1	1
15201-0000	Construction Survey & Stakeout	LS	1	1
15401-0000	Contractor Sampling and Testing	LS	1	1
15705-0100	Soil Erosion Control - Silt Fence Protection	LF	700	700
15706-0100	Soil Erosion Control - Straw Bale	EA	25	25
15706-1200	Soil Erosion Control - Temporary Inlet Protection Type B	EA	3	3
15706-1500	Soil Erosion Control - Temporary Inlet Protection Type E	EA	12	12
15901-0000	On The Job Training	LS	1	1
20220-1000	Removal of Tree	EA	1	1
20301-1200	Removal of Structure - Removal of Headwall and Basin	EA	3	3
20302-1200	Removal of Structure - Removal of Guardrail	LF	21,150	21,150
20401-0000	Excavation and Embankment - Roadway and Slope Excavation	CY	950	950
20425-2000	Excavation and Embankment - Furrow Ditch	LF	130	130
25101-0200	RipRap - Grouted Rip Rap, Class I	CY	20	20
30101-1000	Untreated Aggregate Courses, Aggregate Subbase Grading "C" (12'	SY	1,200	1,200
30301-3000	Road Reconditioning - Median, Shoulder and Ditch Reconditioning	STA	94	94
40301-0100	Warm Asphalt Concrete Pavement, Type 1,Grading-"E", Antistrip (2'	TON	7,650	7,650
40301-0110	Warm Asphalt Concrete Pavement, Type 1,Grading-"C" (Base)	TON	2,625	2,625
41101-1000	Prime Coat, Grade RS-1 Method 1	SY	1,200	1,200
41202-0000	Tack Coat, Grade RS-1	GAL	13,500	13,500
41301-0600	Asphalt Paving Milling (2¼" to 3¼" Depth)	SY	60,500	60,500
41801-2000	Asphalt Pavement Patching - Partial Depth Patch Type 2	SY	200	200
41801-3000	Asphalt Pavement Patching - Surface Patch Type 3	SY	400	400
60202-0400	Culverts and Drains - 30" X 19" Reinforced Concrete Pipe (Elliptical)	LF	20	20
60201-0800	Culverts and Drains - 24" Reinforced Concrete Pipe, Class-III	LF	8	8
60210-0800	Culverts and Drains - 24" Reinforced Concrete Pipe End Section, Cl	EA	2	2
60403-1400	Manholes, Inlets and Catch Basins - Inlet Type 5B w/5'x5' Metal Fram	EA	1	1
60405-0000	Manholes, Inlets and Catch Basins - Adjust Manhole Cover	EA	1	1
60707-0500	Cleaning, Reconditioning and Repairing Existing Drainage Structure	LF	600	600
60815-0400	Recondition Concrete Paved Waterway Type IV	SY	250	250
61701-1350	Guardrail - Guardrail System G4,Type II, Class B/Button Rflc.	LF	20,500	20,500

ROUTE & LOCATION				
ITEM NO.	DESCRIPTION	UNIT	RT66 MEH	TOTAL
61701-1360	Guardrail - Guardrail System G4,Type II, Class B/Button Rflc.(Double	LF	450	450
61702-0600	Guardrail - Terminal			

ROUTE 66 MELVIN EVANS HIGHWAY (PHASE IV)

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	B2	54

1. ALL TEMPORARY TRAFFIC CONTROL FUNCTIONS SUCH AS TRAFFIC CONTROL PLAN, MAINTAINING, RELOCATING, FLAGGING AND MOVING TEMPORARY TRAFFIC CONTROL DEVICES AS PER THE MUTCD FOR THE CONTROL AND PROTECTION OF THE PUBLIC TRAFFIC THROUGH THE PROJECT AREAS WILL BE INCLUDED IN 63501-0000 ITEM. THE CONTRACTOR SHALL SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO PERFORMING WORK.

2. WHENEVER THE TRAFFIC CONTROL PLAN REQUIRES DETOURING OF TRAFFIC, THE TRAFFIC DETOUR PLAN SHALL NOT BE IMPLEMENTED DURING PEAK TRAFFIC HOURS. PEAK TRAFFIC HOURS ARE BETWEEN 7:00AM TO 9:00AM AND BETWEEN 3:00PM TO 6:00PM.

3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND WORKING WITH ALL UTILITY COMPANIES IN LOCATING AND THE RELOCATION OF ANY UTILITY LINES AND STRUCTURES ON THIS PROJECT ACCORDING TO PARAGRAPH 28 OF THE GENERAL PROVISIONS. ALL UNDERGROUND LINES MUST BE LOCATED PRIOR TO EXCAVATION.

4. ITEM 41801 ASPHALT PATCHING FOR SHOULDERS SHALL BE IDENTIFIED BY THE CO IN THE FIELD. REMOVAL AND DISPOSAL OF ASPHALT AND DEBRIS WILL BE INCLUSIVE IN THIS ITEM.

5. THE CONTRACTOR SHALL PERFORM COMPACTION TESTS WITH A NUCLEAR GAUGE ON A DAILY BASIS WHEN COMPACTION OF MATERIAL IS IN PROGRESS. A MINIMUM OF ONE COMPACTION TEST MUST BE PERFORMED PER LIFT AND ALL TESTS RESULTS SHALL BE SUBMITTED TO DPW FOR REVIEW AND APPROVAL. THE CONTRACTOR MUST ACHIEVE 95% DENSITY PRIOR TO PLACING ANY ADDITIONAL LIFTS.

6. THE DPW SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF CONCRETE POURS. TESTING OF THE CONCRETE SHALL CONFORM TO FP-14 SPECIFICATIONS.

7. THIS PROJECT REQUIRES WARM MIX ASPHALT CONCRETE PAVEMENT TO BE USED USED FOR ITEMS 40301-0100 AND 40301-0110. THE CONTRACTOR WILL BE REQUIRED TO PRODUCE, PLACE, AND COMPACT ASPHALT PAVEMENT BETWEEN 30° TO 120° LOWER THAN HOT MIX ASPHALT PAVEMENT.

8. THIS PROJECT REQUIRES THAT SAFETY EDGE BE USED FOR ITEM 40301-0100.

9. ITEM 15706-0100 STRAW BALES USED FOR EROSION CONTROLS SHALL BE 60" IN LENGTH BY 24" WIDTH AND 24" IN HEIGHT.

10. GUARDRAIL FOR THIS PROJECT WILL BE W-BEAM TYPE II, CLASS B. THE COST FOR PLACING LONGER POSTS WHERE REQUIRED WILL BE INCLUDED IN ITEM 61701.

11. EXISTING GUARDRAIL THAT IS REMOVED AND NOT DAMAGED FROM THIS PROJECT SHALL BE DELIVERED TO THE DPW STOCKYARD INCLUDING POSTS, SPACERS, NUTS AND BOLTS. ALL DAMAGED AND UNREUSABLE GUARDRAIL SHALL BE DISPOSED OF AT THE ANGUILLA LANDFILL. THE GUARDRAIL SHALL BE REMOVED WITH CARE AND NEATLY STOCK PILED AT THE DPW STOCKYARD.

12. THE CONTRACTOR SHALL DELIVER MILLED MATERIAL TO THE DPW STOCKYARD.

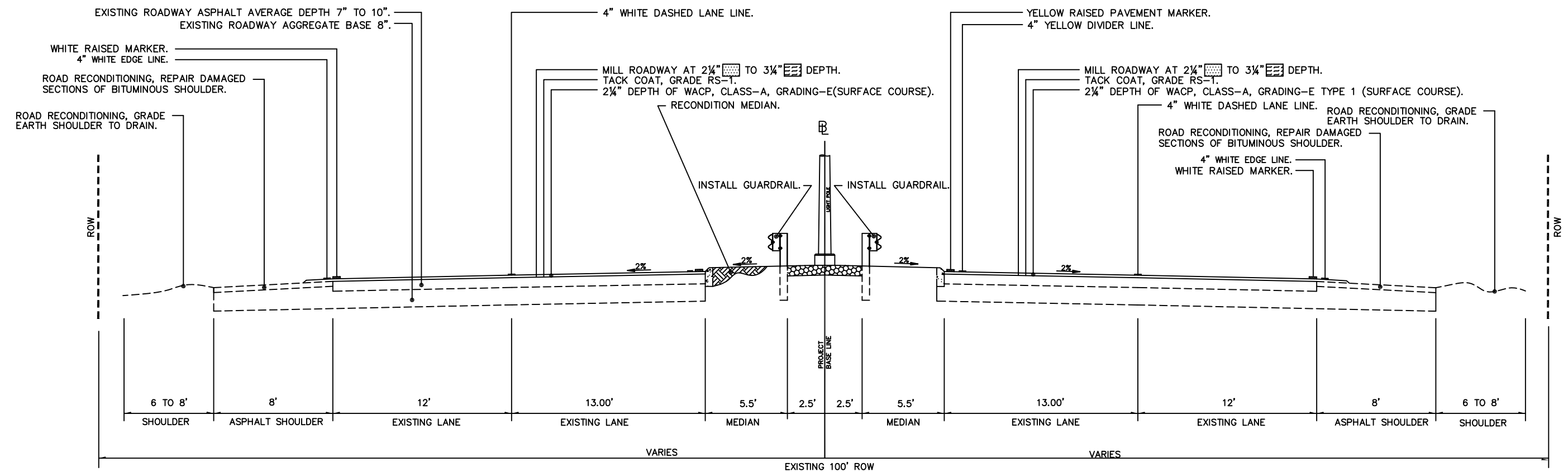
13. THE CONTRACTOR SHALL VERIFY ALL WORK LIMITS IN THE FIELD WITH THE CO PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

14. ROADWAY RECONDITIONING FOR THIS PROJECT SHALL INCLUDE TREE TRIMMING AND BRUSH REMOVAL, ASPHALT SHOULDER GRADING AND RECONDITIONING, GRADING SHOULDERS TO DRAIN, CLEARING DITCHES, CLEARING DEBRIS FROM WATERWAYS, MEDIAN GRADING AND RECONDITIONING, REPLACING GRAVEL BETWEEN GUARD RAILING WHERE REQUIRED, AND REPAIR OF THE MEDIAN CURB WHERE DAMAGED.

DEPARTMENT OF PUBLIC WORKS
OFFICE OF HIGHWAY ENGINEERING

MELVIN EVANS HIGHWAY
GENERAL NOTES

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	C1	54



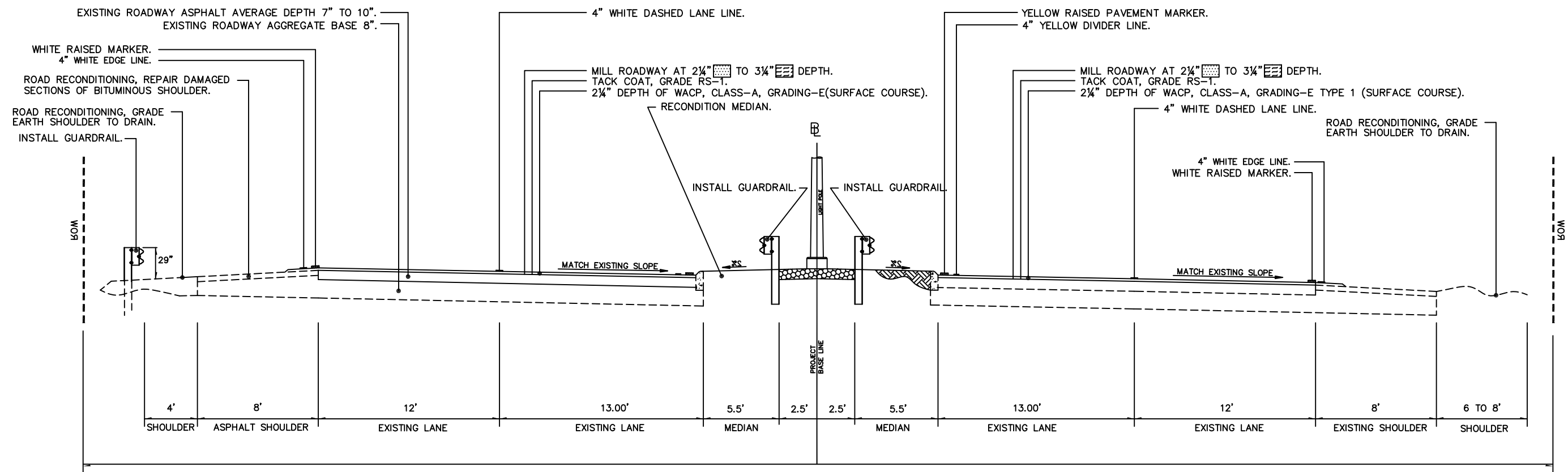
① ROUTE 66 TYPICAL SECTION ROADWAY MILLING AND OVERLAY
STA. 04+15 TO 12+40///25+90 TO 38+16///59+30 TO 63+60

NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS
OFFICE OF HIGHWAY ENGINEERING

MELVIN EVANS HIGHWAY
TYPICAL CROSS SECTION
ROUTE 66

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	C2	54



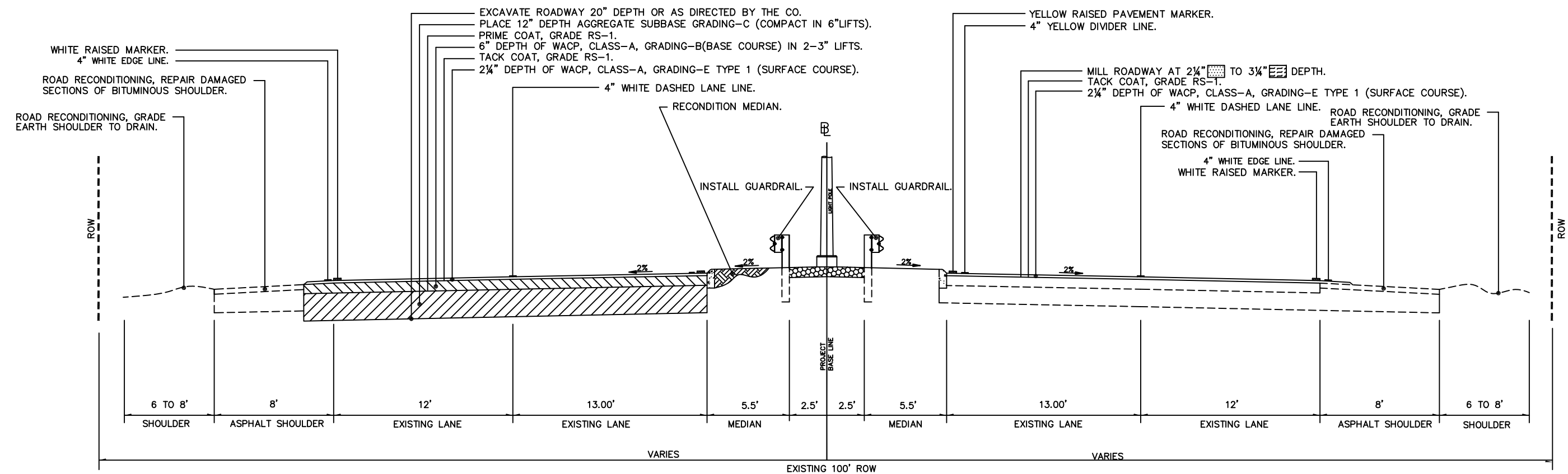
② ROUTE 66 TYPICAL SECTION ROADWAY MILLING AND OVERLAY
STA. 12+40 TO 25+90///38+16+39+40///40+40 TO 53+04///91+61 TO 96+50

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MELVIN EVANS HIGHWAY
TYPICAL CROSS SECTION
ROUTE 66

NOT TO SCALE

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	C3	54



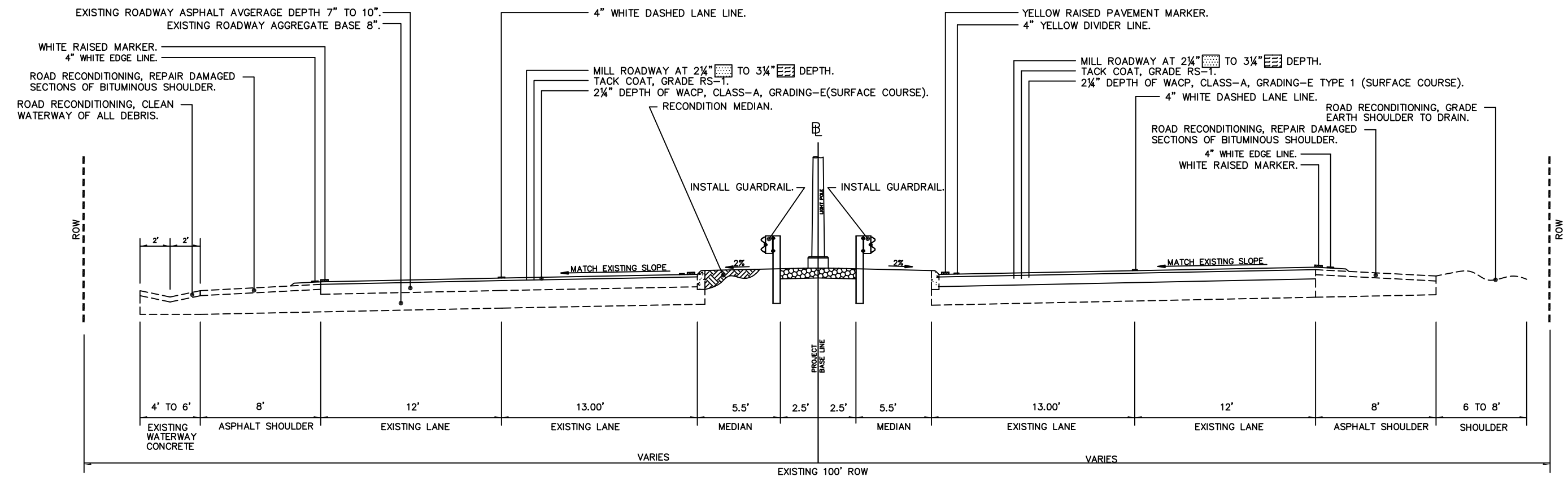
③ ROUTE 66 TYPICAL SECTION ROADWAY RECONSTRUCTION
STA. 39+40 TO 40+40///63+60 TO 65+31/66+80 TO 66+95

NOT TO SCALE

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OFFICE OF HIGHWAY ENGINEERING

MELVIN EVANS HIGHWAY
TYPICAL CROSS SECTION
ROUTE 66

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	C5	54



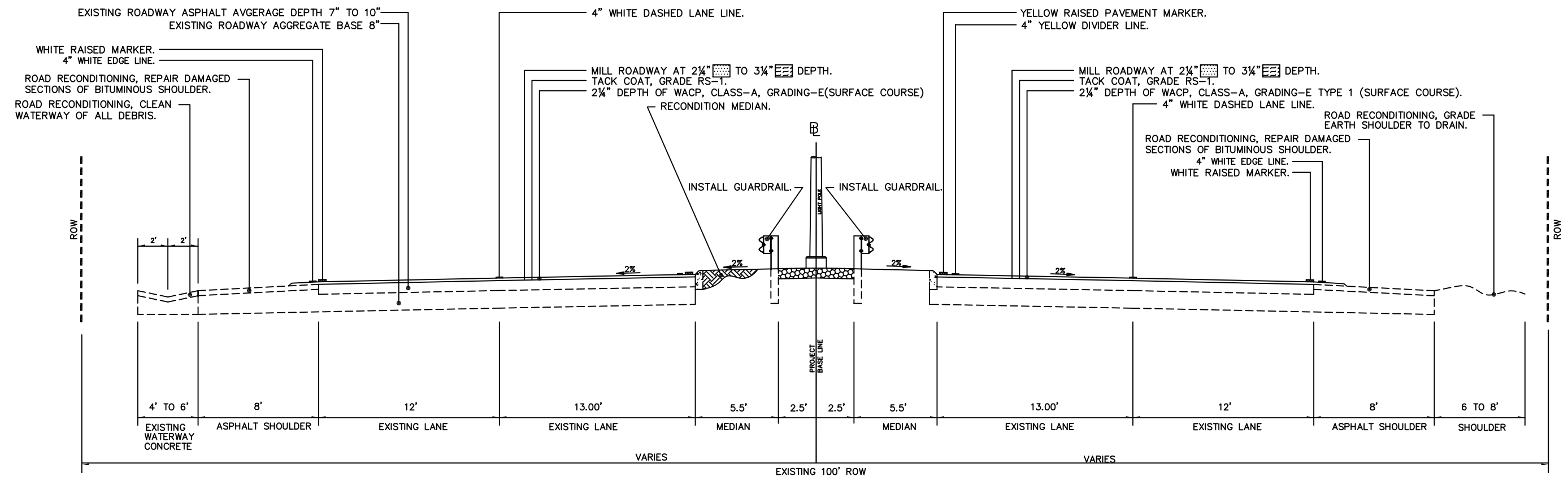
⑤ ROUTE 66 TYPICAL SECTION ROADWAY MILLING AND OVERLAY
STA. 65+31 TO 91+61///66+95 TO 86+71

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MELVIN EVANS HIGHWAY
TYPICAL CROSS SECTION
ROUTE 66

NOT TO SCALE

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	C6	54



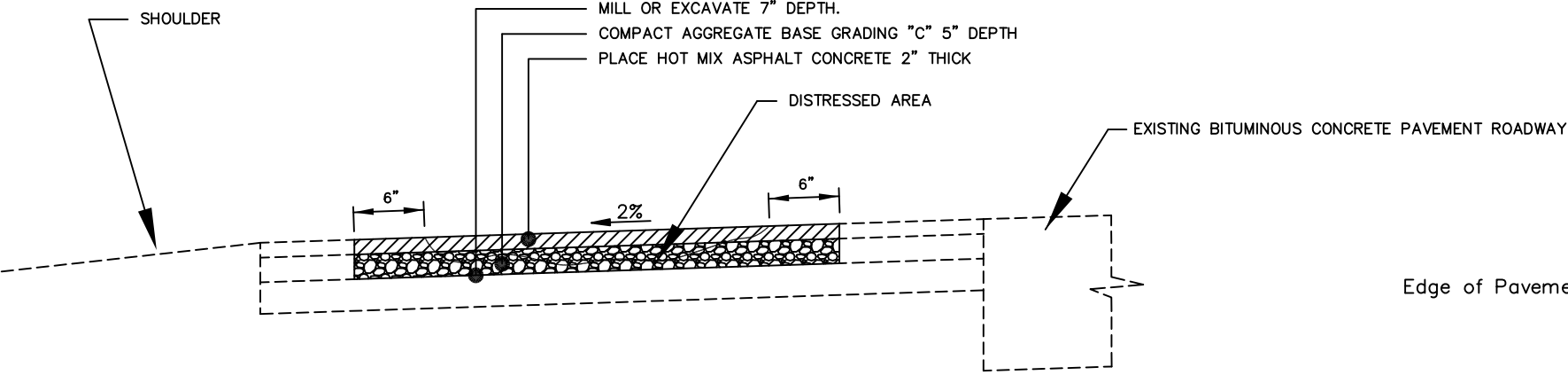
**⑥ ROUTE 66 TYPICAL SECTION ROADWAY MILLING AND OVERLAY
STA. 86+71 TO 91+61**

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OFFICE OF HIGHWAY ENGINEERING

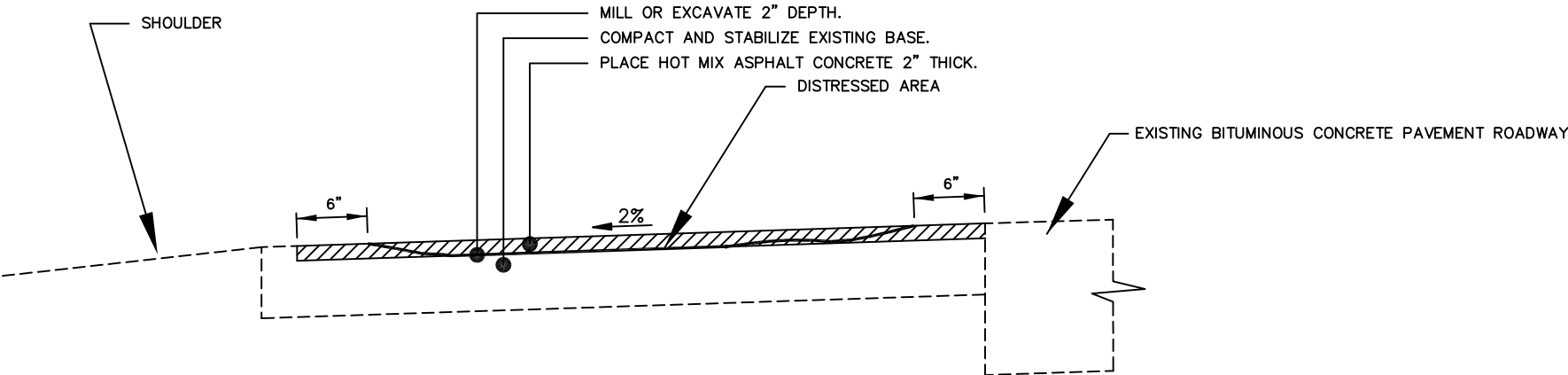
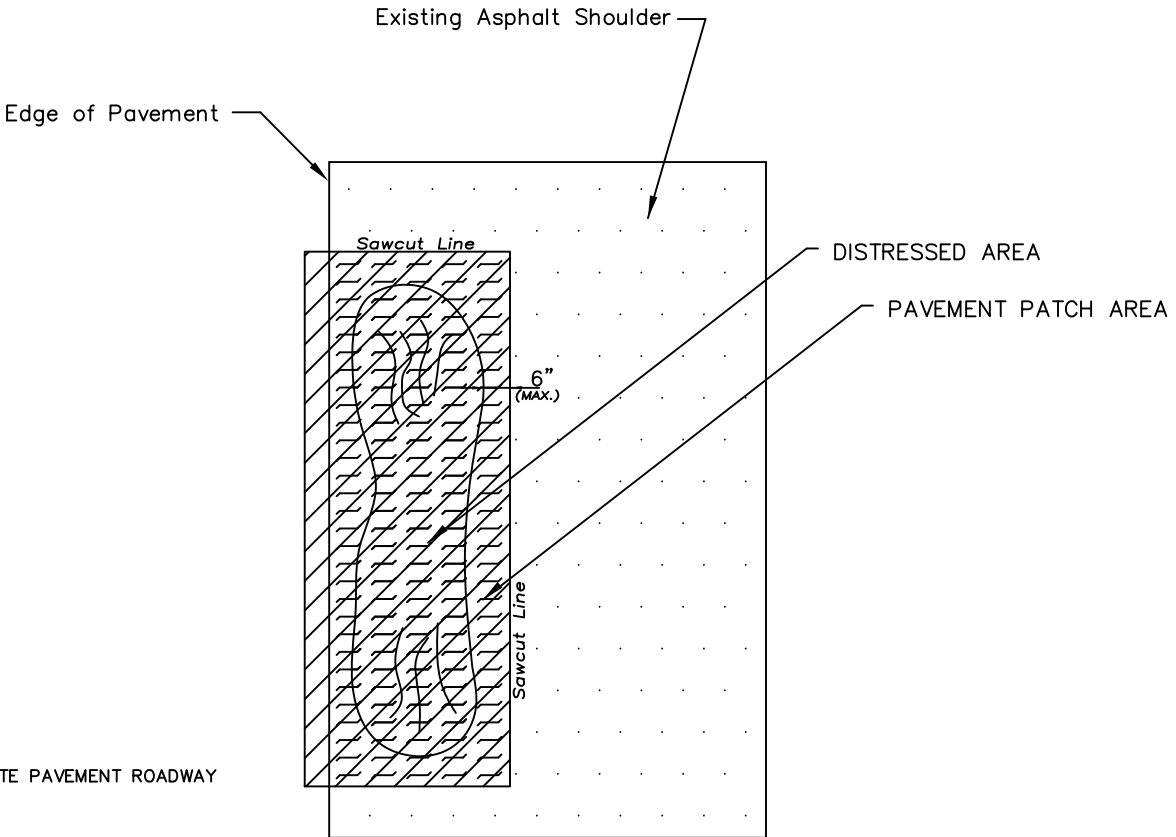
**MELVIN EVANS HIGHWAY
TYPICAL CROSS SECTION
ROUTE 66**

NOT TO SCALE

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	C7	54



⑦ ROUTE 66 TYPICAL SHOULDER PARTIAL PAVEMENT PATCH TYPE II (41801-2000)



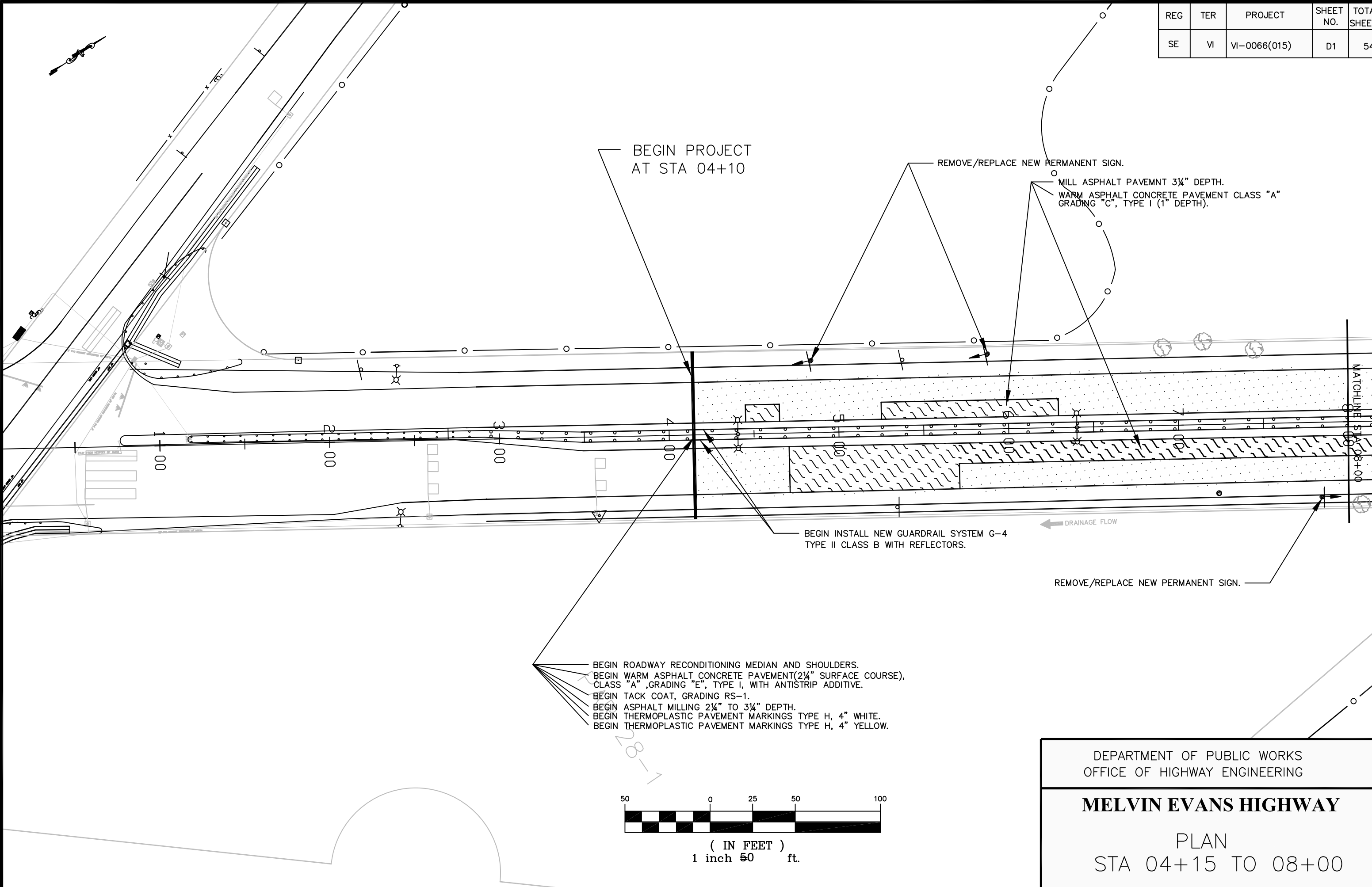
⑧ ROUTE 66 TYPICAL SHOULDER PAVEMENT PATCH TYPE III (41801-3000)

NOT TO SCALE

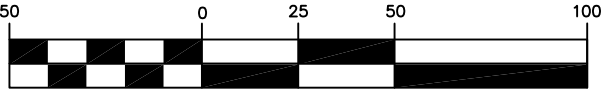
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OFFICE OF HIGHWAY ENGINEERING

MELVIN EVANS HIGHWAY
TYPICAL CROSS SECTION
ROUTE 66

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	D1	54



BEGIN ROADWAY RECONDITIONING MEDIAN AND SHOULDERS.
BEGIN WARM ASPHALT CONCRETE PAVEMENT(2 1/4" SURFACE COURSE),
CLASS "A", GRADING "E", TYPE I, WITH ANTISTRIIP ADDITIVE.
BEGIN TACK COAT, GRADING RS-1.
BEGIN ASPHALT MILLING 2 1/4" TO 3 1/4" DEPTH.
BEGIN THERMOPLASTIC PAVEMENT MARKINGS TYPE H, 4" WHITE.
BEGIN THERMOPLASTIC PAVEMENT MARKINGS TYPE H, 4" YELLOW.



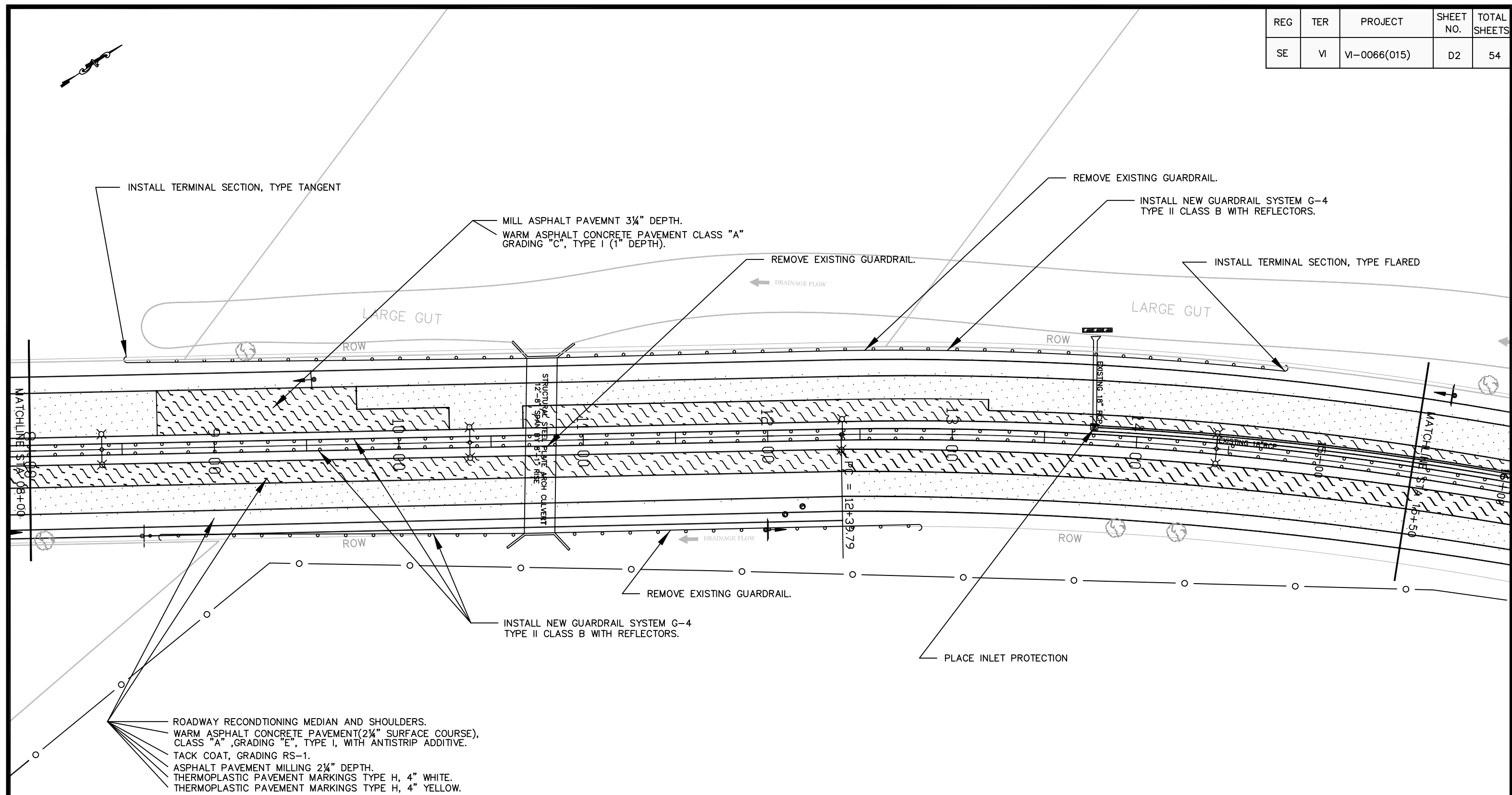
(IN FEET)
1 inch 50 ft.

DEPARTMENT OF PUBLIC WORKS
OFFICE OF HIGHWAY ENGINEERING

MELVIN EVANS HIGHWAY

PLAN
STA 04+15 TO 08+00

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	D2	54

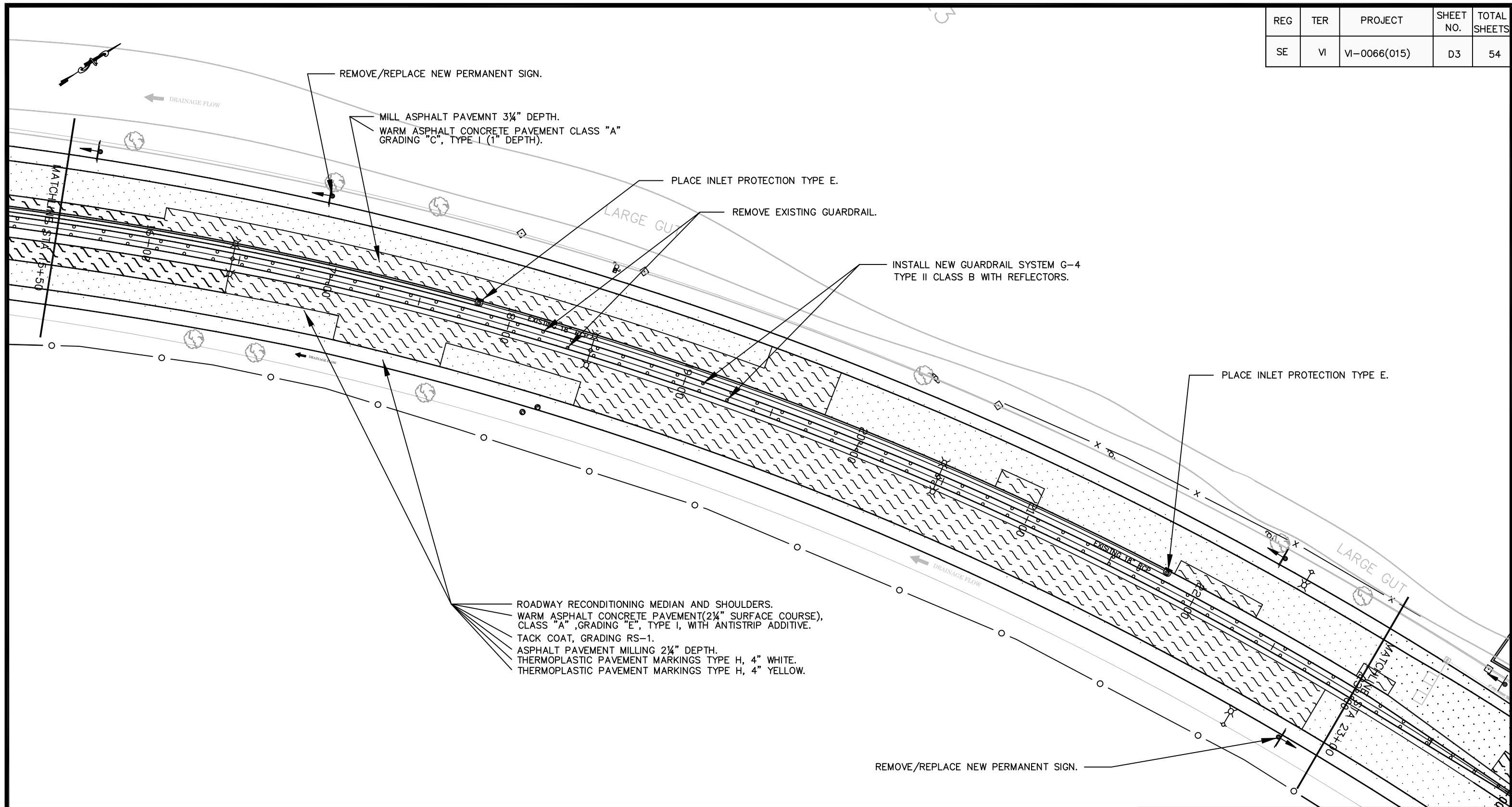


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MELVIN EVANS HIGHWAY

PLAN
STA 08+00 TO 15+50

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	D3	54

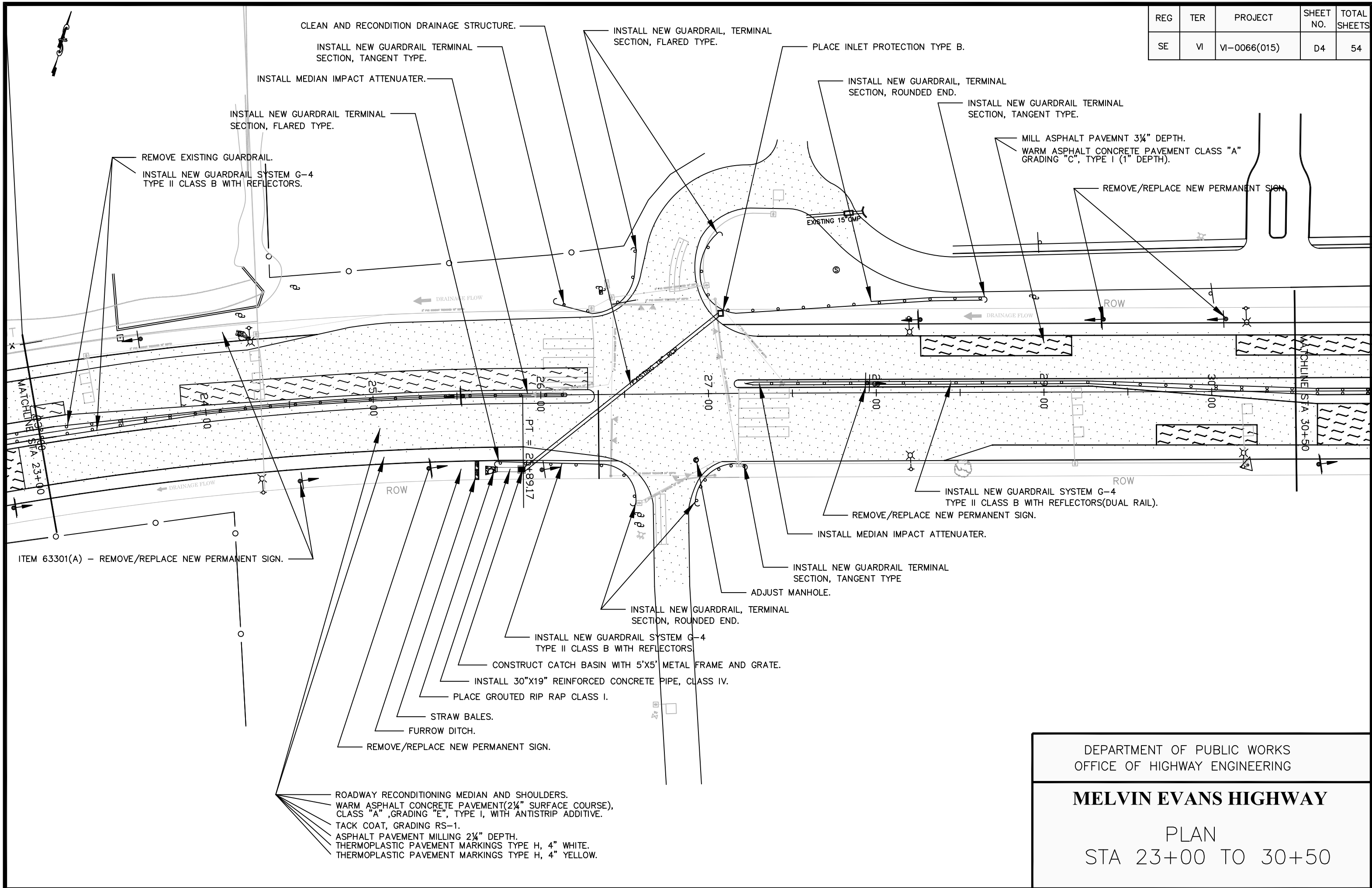


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MELVIN EVANS HIGHWAY

PLAN
STA 15+50 TO 23+00

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	D4	54

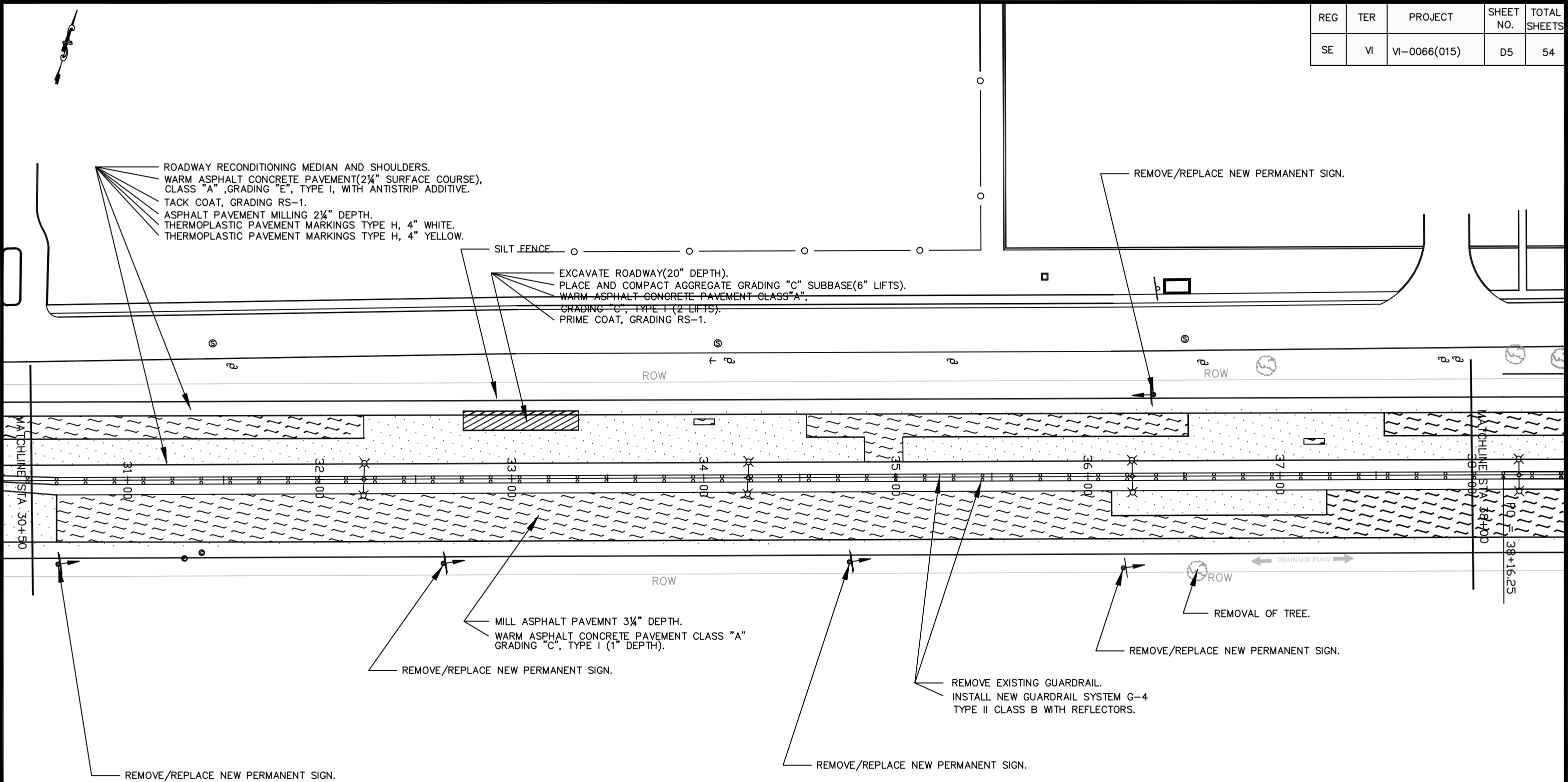


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MELVIN EVANS HIGHWAY

PLAN
STA 23+00 TO 30+50

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	D5	54

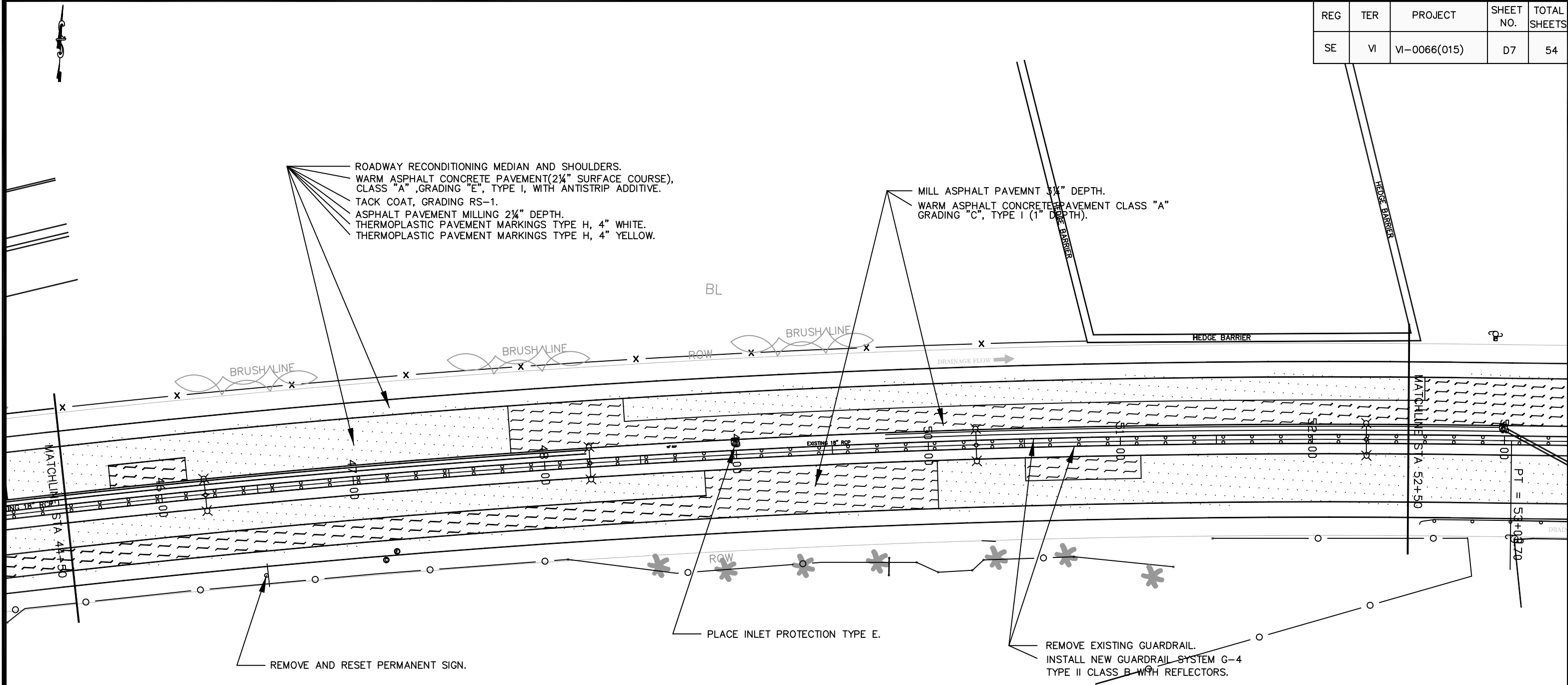


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MELVIN EVANS HIGHWAY

PLAN
STA 30+50 TO 38+00

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	D7	54

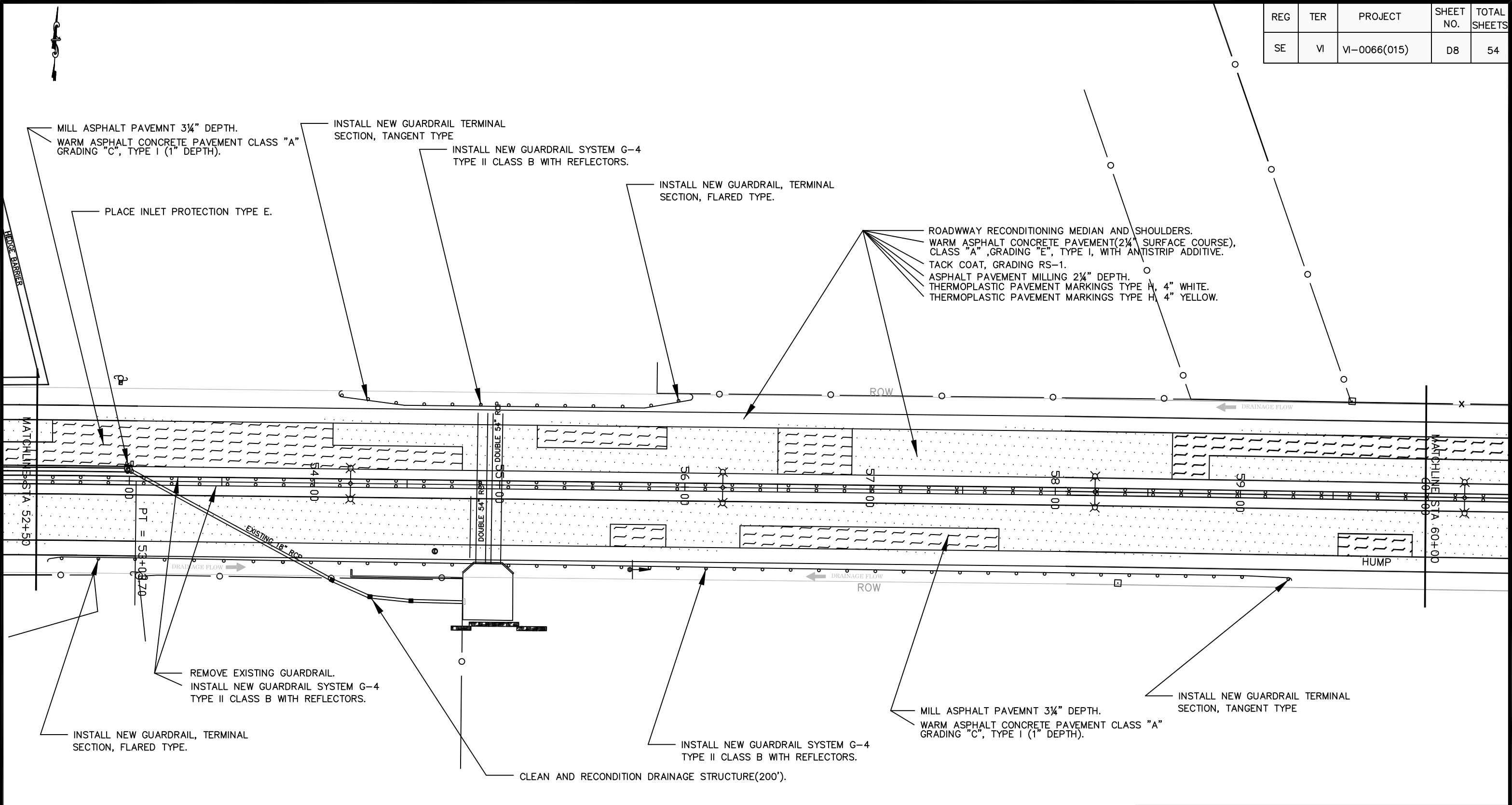


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MELVIN EVANS HIGHWAY

PLAN
STA 45+50 TO 52+50

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	D8	54

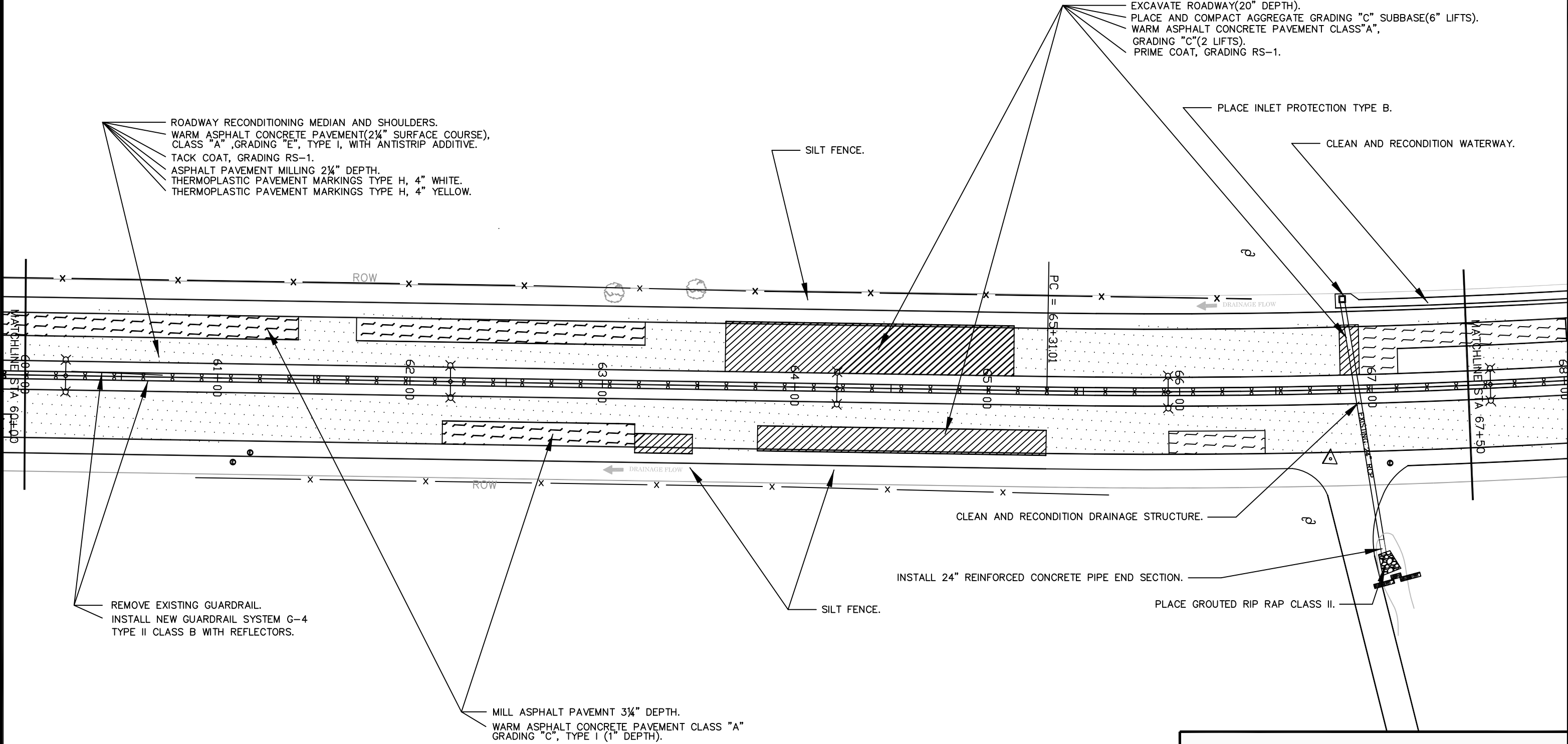


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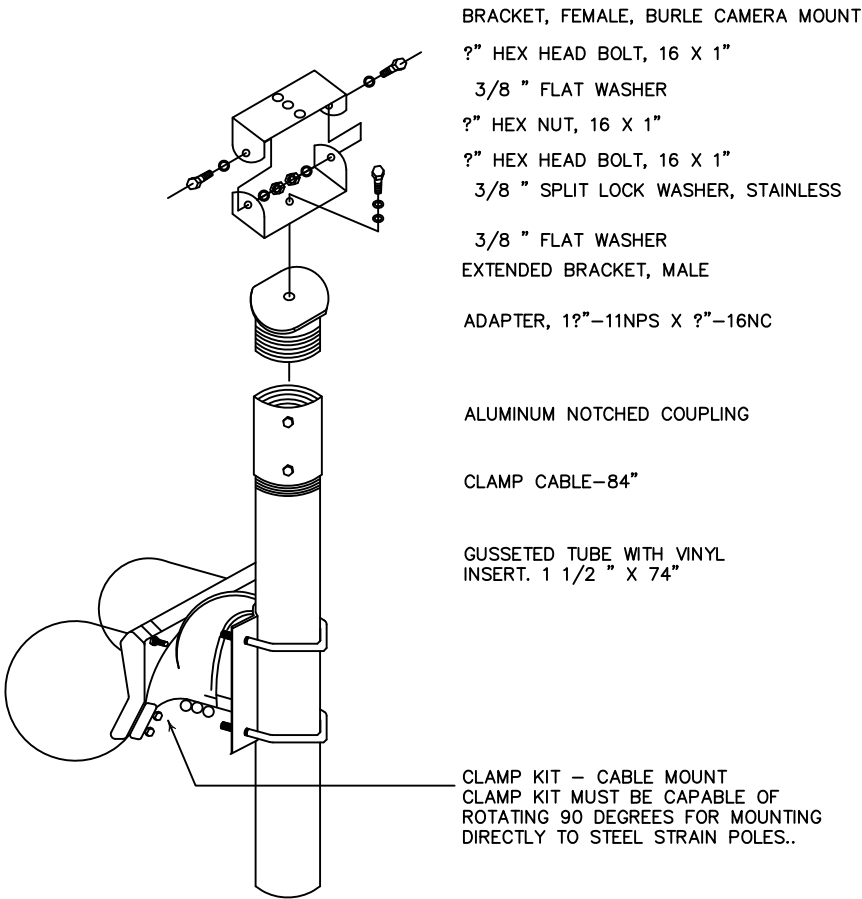
MELVIN EVANS HIGHWAY

PLAN
STA 52+50 TO 60+00

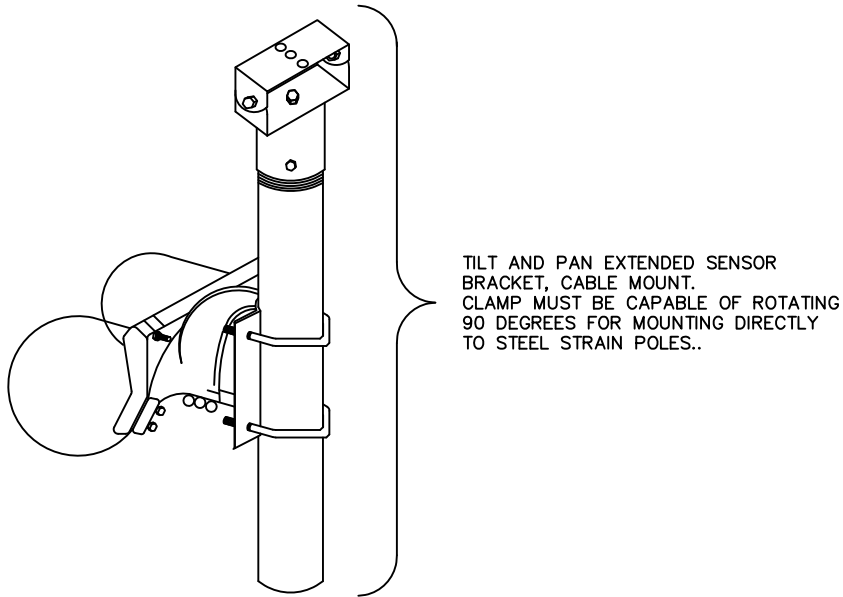
REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	D9	54



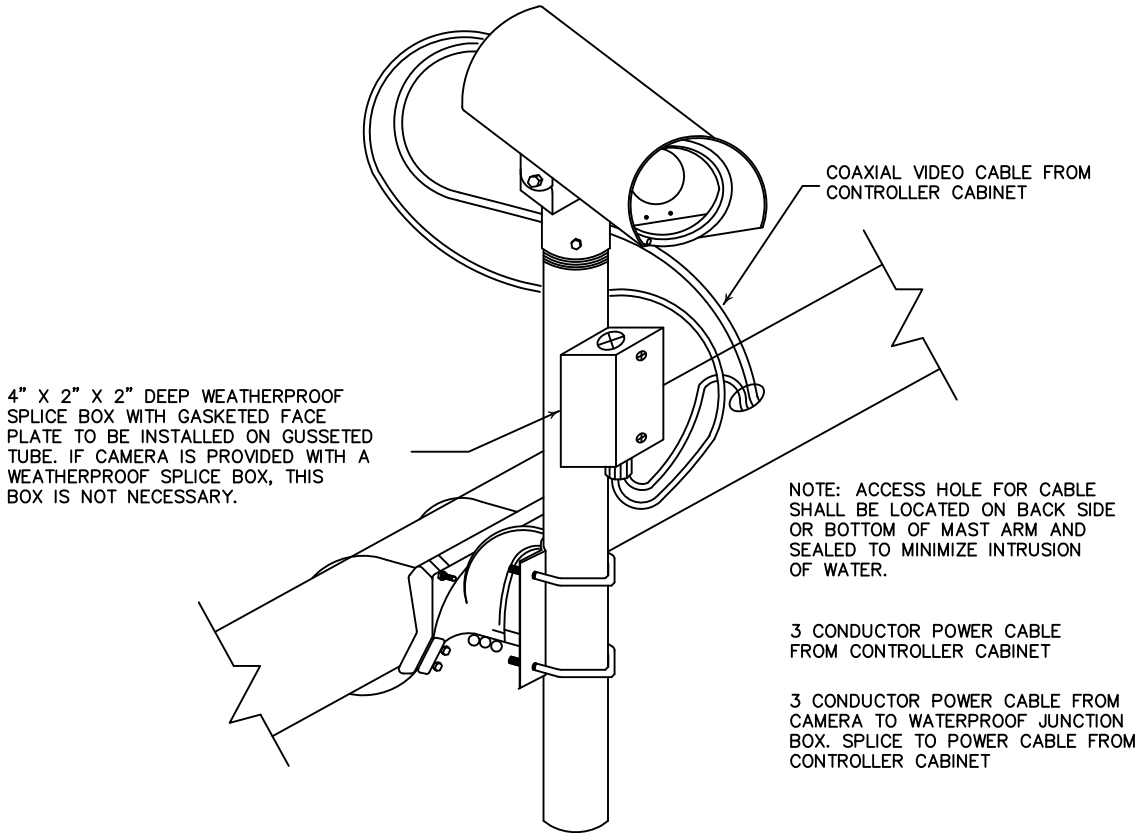
REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	E4	54



CAMERA MOUNT AND BRACKET PARTS



CAMERA MOUNT AND BRACKET ASSEMBLY



MAST ARM CAMERA INSTALLATION

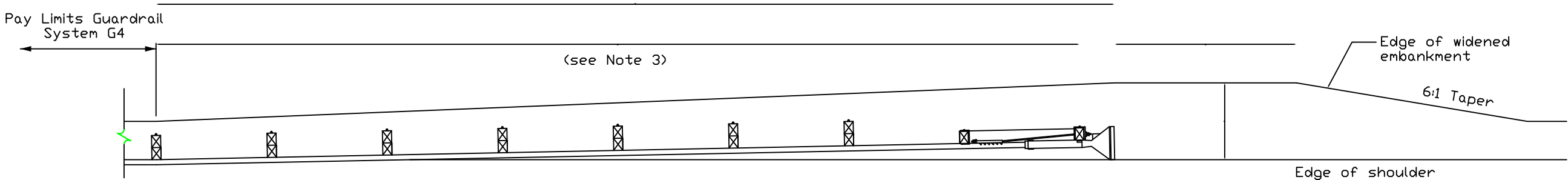
DEPARTMENT OF PUBLIC WORKS
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**MELVIN EVANS HIGHWAY
CAMERA INSTALLATION
PARADISE INTERSECTION**

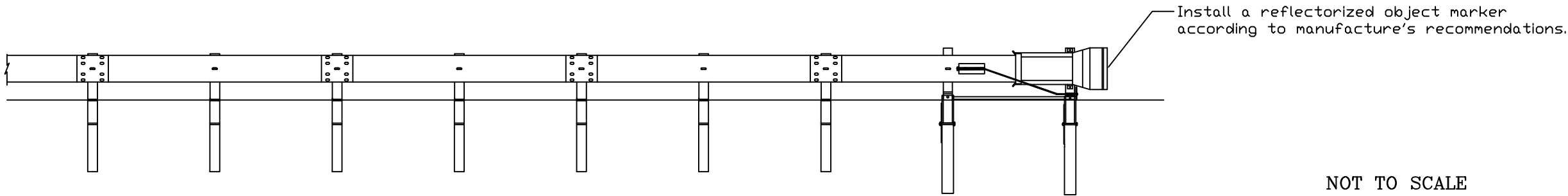
REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066(015)	F9	54

NOTES:

1. Unless otherwise specified in the contract, install a G4 W-beam guardrail terminal that meets NCHRP-350 OR 230 requirements. See <http://safety.fhwa.dot.gov/> for a list of approved terminal sections.
2. Unless otherwise indicated in the contract, install the terminal section as per manufacturer's recommendations.
3. Install terminal at a 1:50 taper, ensuring that end piece is entirely off shoulder..
4. See manufacturer's drawings for other details.



PLAN

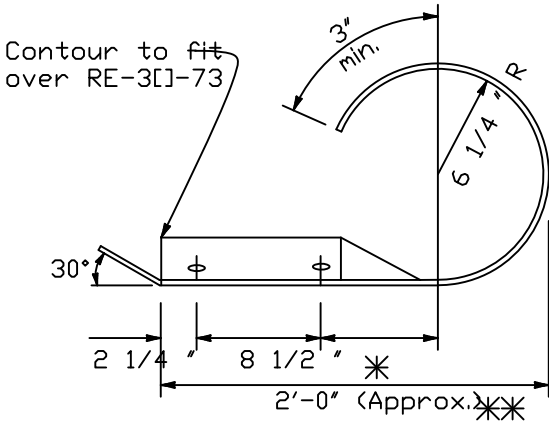


ELEVATION

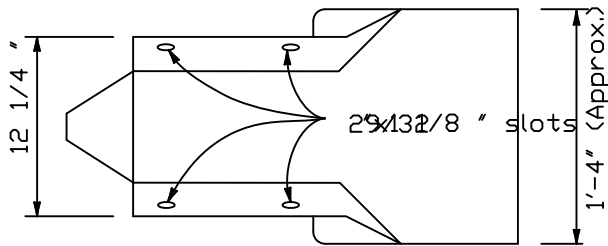
NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS OFFICE OF HIGHWAY ENGINEERING	
DETAIL GUARDRAIL TERMINAL TYPE TANGENT	
	DETAIL 61701(C)

REG	TER	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI-0066<015>	F11	54



PLAN



ELEVATION

* This dimension is 7 1/2 " in RE-7-79.
 If the same dimension is used in this part, it will give an acceptable overall length (**) of approximately 2'-1 1/2 ".

ROUND END SECTION
 ARTBA RE-6-79

NOTES:

1. Rounded or flared end sections are acceptable alternates to buffered end sections and type 1 end sections on terminal sections at the trailing ends of guardrail runs on the right side of multilane roadways and where shown on the plans on the left side of multilane roadways.

NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS OFFICE OF HIGHWAY ENGINEERING	
DETAIL GUARDRAIL TERMINAL TYPE ROUNDED	
	DETAIL 61701(E)

