

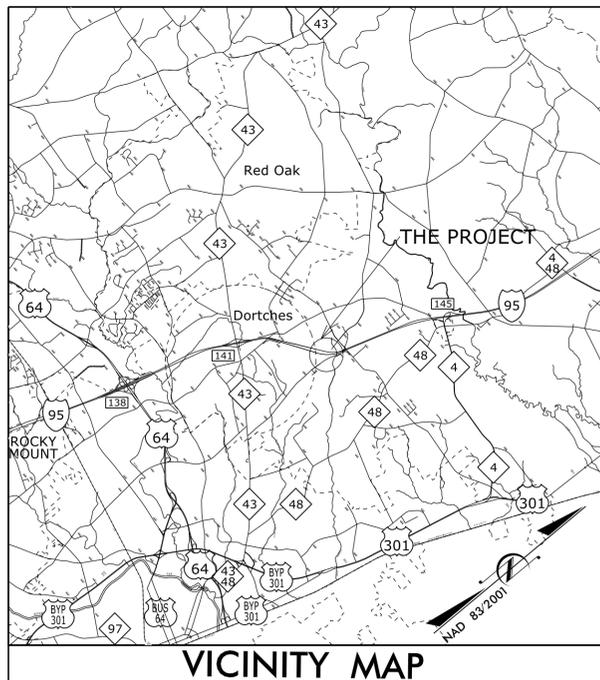
See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**NASH COUNTY**

**LOCATION: I-95 NORTHBOUND LANE SOUTH OF REST AREA ACCELERATION LANE TO SR 1524 (RED OAK-BATTLEBORO ROAD) OVERPASS BRIDGE**  
**TYPE OF WORK: GRADING AND PAVING**

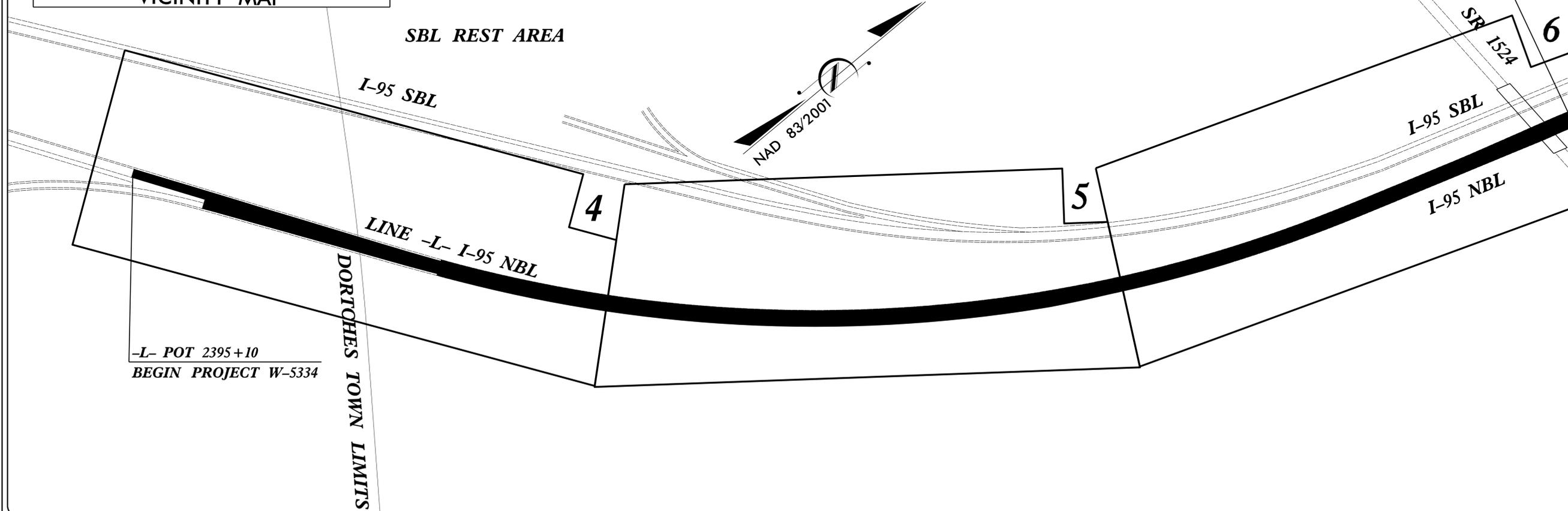
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5334	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
45426.1.1	STPIMS-095-3(106)142	PE	
45426.3.1	STPIMS-095-3(106)142	CONST	



-L- POT 2435 + 55  
END PROJECT W-5334

TIP PROJECT: W-5334

CONTRACT: DD00067



-L- POT 2395 + 10  
BEGIN PROJECT W-5334

**GRAPHIC SCALES**



**DESIGN DATA**

ADT =  
ADT =  
DHV = %  
D = %  
T = % \*  
V = MPH  
\* TTST DUAL

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT W-5334 = 0.766 MILES  
TOTAL LENGTH TIP PROJECT W-5334 = 0.766 MILES

Prepared In the Office of:  
**DIVISION OF HIGHWAYS**

Division 4 DDC  
509 Ward Blvd., Wilson NC, 27895

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
NA

LETTING DATE:  
MAY 14, 2013

JOHN ROUSE, PE  
PROJECT ENGINEER

J. C. CAULEY, PLS  
PROJECT DESIGN ENGINEER

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER

# STATE OF NORTH CAROLINA

## DIVISION OF HIGHWAYS

SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2 THRU 2-A	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3-A	SUMMARIES OF CROSS-SECTION, EARTHWORK, AND ASPHALT PAVEMENT REMOVAL
4 THRU 6	PLAN SHEET
TMP-1 THRU TMP-8	TRAFFIC MANAGEMENT PLANS
PM-1 THRU PM-4	PAVEMENT MARKING PLANS
EC-1 THRU EC-9	EROSION CONTROL PLANS
X-1 THRU X-8	CROSS-SECTIONS

GENERAL NOTES:                    2012 SPECIFICATIONS  
EFFECTIVE: 01-17-12  
REVISED: 11/01/11

GRADING AND SURFACING OR RESURFACING AND WIDENING:  
  
THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED.

CLEARING:  
  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

TEMPORARY SHORING:  
  
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

SUBSURFACE PLANS:  
  
NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

2012 ROADWAY ENGLISH STANDARD DRAWINGS  
  
The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.01	Guide for Grading Subgrade - Interstate and Freeway
225.03	Deceleration and Acceleration Lanes
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.02	Method of Shoulder Construction - High Side of Superelevated Curve - Method II
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
665.01	Asphalt Shoulders - Milled Rumble Strips

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

Table listing symbols for boundaries and property: State Line, County Line, Township Line, City Line, Reservation Line, Property Line, Existing Iron Pin, Property Corner, Property Monument, Parcel/Sequence Number, Existing Fence Line, Proposed Woven Wire Fence, Proposed Chain Link Fence, Proposed Barbed Wire Fence, Existing Wetland Boundary, Proposed Wetland Boundary, Existing Endangered Animal Boundary, Existing Endangered Plant Boundary, Known Soil Contamination: Area or Site, Potential Soil Contamination: Area or Site.

BUILDINGS AND OTHER CULTURE:

Table listing symbols for buildings and other culture: Gas Pump Vent or U/G Tank Cap, Sign, Well, Small Mine, Foundation, Area Outline, Cemetery, Building, School, Church, Dam.

HYDROLOGY:

Table listing symbols for hydrology: Stream or Body of Water, Hydro, Pool or Reservoir, Jurisdictional Stream, Buffer Zone 1, Buffer Zone 2, Flow Arrow, Disappearing Stream, Spring, Wetland, Proposed Lateral, Tail, Head Ditch, False Sump.

RAILROADS:

Table listing symbols for railroads: Standard Gauge, RR Signal Milepost, Switch, RR Abandoned, RR Dismantled.

RIGHT OF WAY:

Table listing symbols for right of way: Baseline Control Point, Existing Right of Way Marker, Existing Right of Way Line, Proposed Right of Way Line, Proposed Right of Way Line with Iron Pin and Cap Marker, Proposed Right of Way Line with Concrete or Granite RW Marker, Proposed Control of Access Line with Concrete CA Marker, Existing Control of Access, Proposed Control of Access, Existing Easement Line, Proposed Temporary Construction Easement, Proposed Temporary Drainage Easement, Proposed Permanent Drainage Easement, Proposed Permanent Drainage / Utility Easement, Proposed Permanent Utility Easement, Proposed Temporary Utility Easement, Proposed Aerial Utility Easement, Proposed Permanent Easement with Iron Pin and Cap Marker.

ROADS AND RELATED FEATURES:

Table listing symbols for roads and related features: Existing Edge of Pavement, Existing Curb, Proposed Slope Stakes Cut, Proposed Slope Stakes Fill, Proposed Curb Ramp, Existing Metal Guardrail, Proposed Guardrail, Existing Cable Guiderail, Proposed Cable Guiderail, Equality Symbol, Pavement Removal.

VEGETATION:

Table listing symbols for vegetation: Single Tree, Single Shrub, Hedge, Woods Line.

Table listing symbols for orchard and vineyard.

EXISTING STRUCTURES:

Table listing symbols for existing structures: MAJOR: Bridge, Tunnel or Box Culvert, Bridge Wing Wall, Head Wall and End Wall; MINOR: Head and End Wall, Pipe Culvert, Footbridge, Drainage Box: Catch Basin, DI or JB, Paved Ditch Gutter, Storm Sewer Manhole, Storm Sewer.

UTILITIES:

Table listing symbols for utilities: POWER: Existing Power Pole, Proposed Power Pole, Existing Joint Use Pole, Proposed Joint Use Pole, Power Manhole, Power Line Tower, Power Transformer, U/G Power Cable Hand Hole, H-Frame Pole, Recorded U/G Power Line, Designated U/G Power Line (S.U.E.\*); TELEPHONE: Existing Telephone Pole, Proposed Telephone Pole, Telephone Manhole, Telephone Booth, Telephone Pedestal, Telephone Cell Tower, U/G Telephone Cable Hand Hole, Recorded U/G Telephone Cable, Designated U/G Telephone Cable (S.U.E.\*), Recorded U/G Telephone Conduit, Designated U/G Telephone Conduit (S.U.E.\*), Recorded U/G Fiber Optics Cable, Designated U/G Fiber Optics Cable (S.U.E.\*).

Table listing symbols for water: Water Manhole, Water Meter, Water Valve, Water Hydrant, Recorded U/G Water Line, Designated U/G Water Line (S.U.E.\*), Above Ground Water Line.

Table listing symbols for TV: TV Satellite Dish, TV Pedestal, TV Tower, U/G TV Cable Hand Hole, Recorded U/G TV Cable, Designated U/G TV Cable (S.U.E.\*), Recorded U/G Fiber Optic Cable, Designated U/G Fiber Optic Cable (S.U.E.\*).

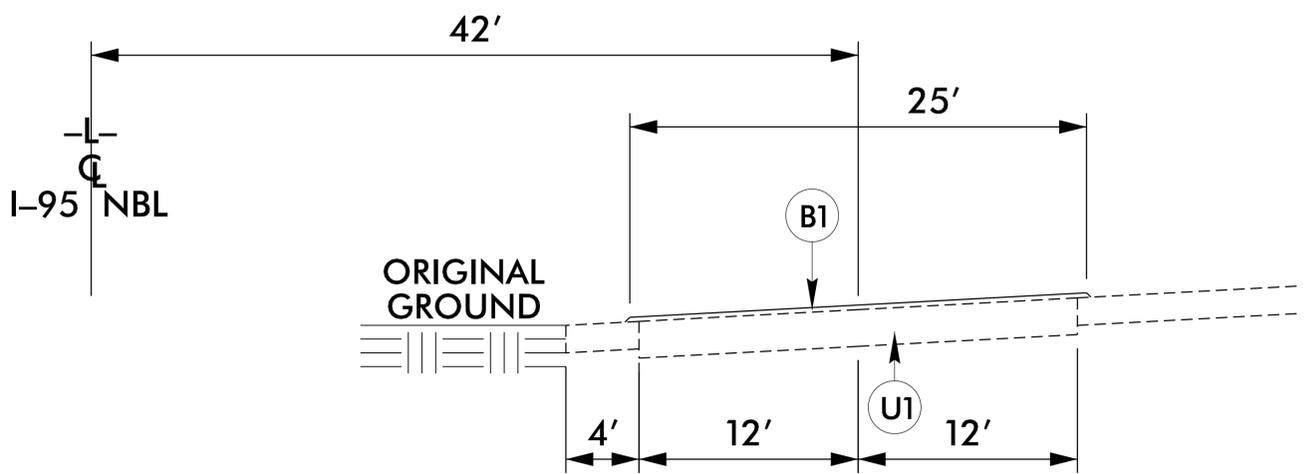
Table listing symbols for gas: Gas Valve, Gas Meter, Recorded U/G Gas Line, Designated U/G Gas Line (S.U.E.\*), Above Ground Gas Line.

Table listing symbols for sanitary sewer: Sanitary Sewer Manhole, Sanitary Sewer Cleanout, U/G Sanitary Sewer Line, Above Ground Sanitary Sewer, Recorded SS Forced Main Line, Designated SS Forced Main Line (S.U.E.\*).

Table listing symbols for miscellaneous: Utility Pole, Utility Pole with Base, Utility Located Object, Utility Traffic Signal Box, Utility Unknown U/G Line, U/G Tank; Water, Gas, Oil, Underground Storage Tank, Approx. Loc., A/G Tank; Water, Gas, Oil, Geoenvironmental Boring, U/G Test Hole (S.U.E.\*), Abandoned According to Utility Records, End of Information.

PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN	
B1	PROP. OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD. IN EACH OF TWO LAYERS.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 4½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
U1	EXISTING PAVEMENT.
U2	EXISTING PAVED SHOULDER TO BE REMOVED (VAR 4' TO 12')
T	EARTH MATERIAL.
V1	PROP. MILLED RUMBLE STRIPS.

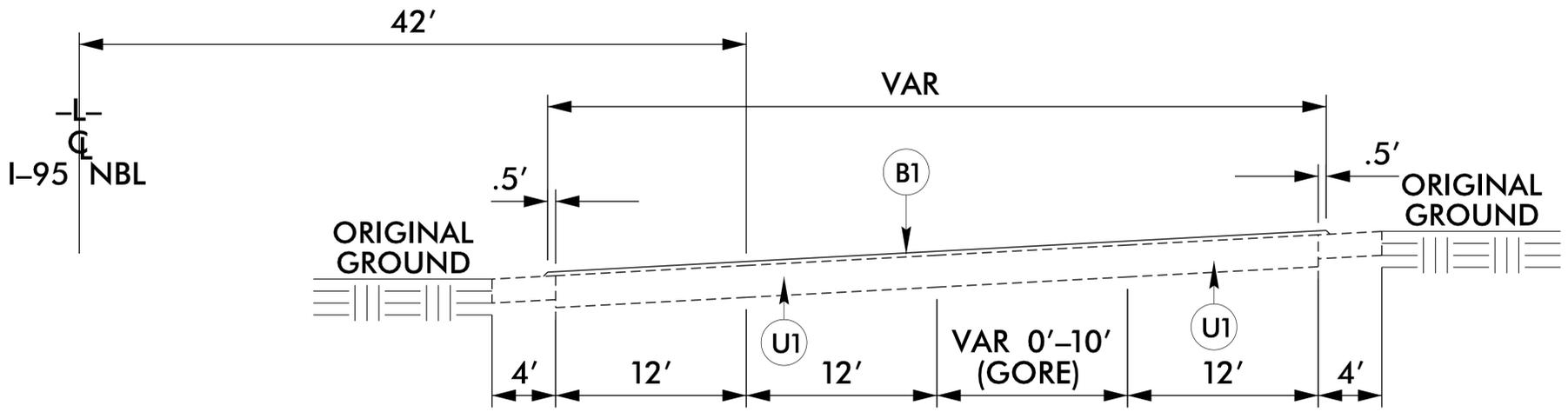
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



**TYPICAL SECTION NO. 1**

USE TYPICAL SECTION NO. 1

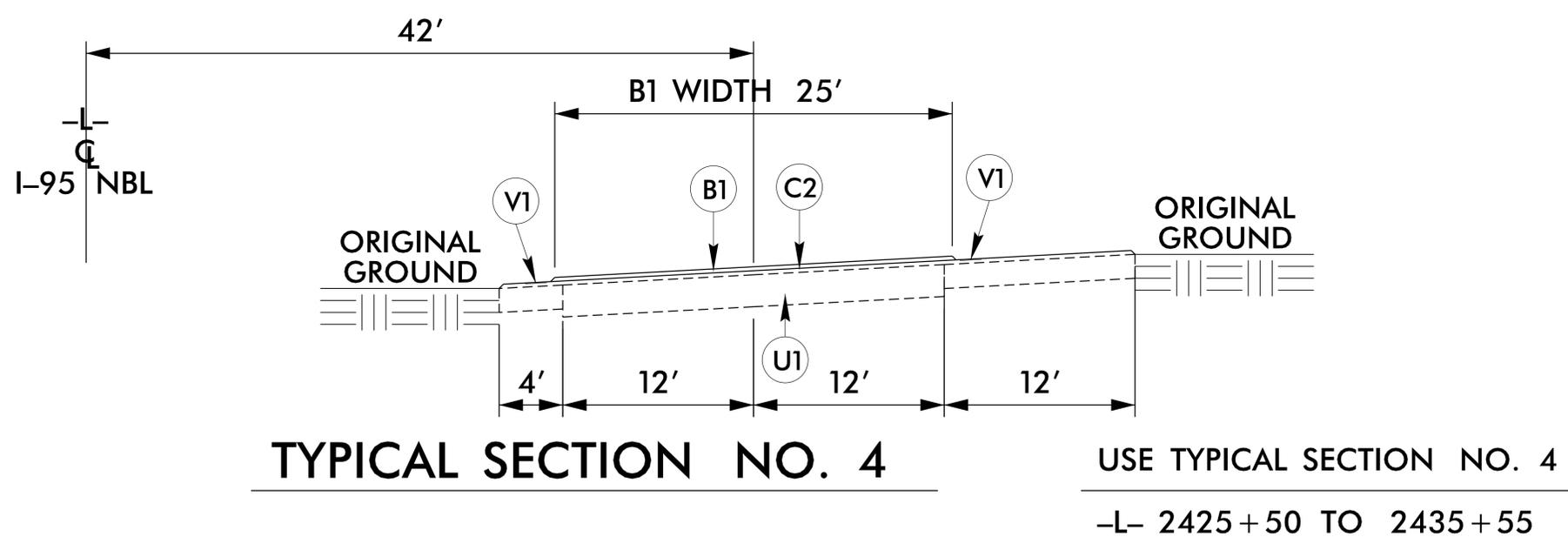
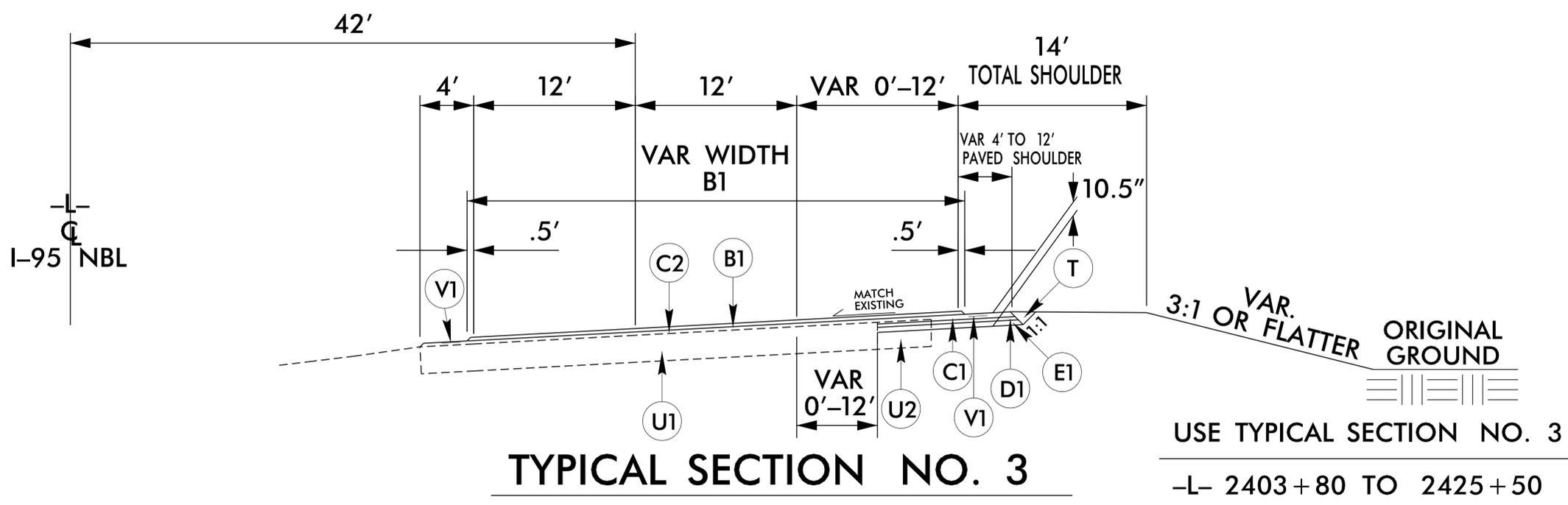
-L- 2395+10 TO 2397+20



**TYPICAL SECTION NO. 2**

USE TYPICAL SECTION NO. 2

-L- 2397+20 TO 2403+80



PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN			
B1	PROP. OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.	U1	EXISTING PAVEMENT.
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD. IN EACH OF TWO LAYERS.	U2	EXISTING PAVED SHOULDER TO BE REMOVED (VAR 4' TO 12')
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	T	EARTH MATERIAL.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.	V1	PROP. MILLED RUMBLE STRIPS.
E1	PROP. APPROX. 4½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.	NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.	

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS SUMMARY OF QUANTITIES

0000100000-N	800	1	LS	MOBILIZATION	6021000000-E	1620	0.75	TON	FERTILIZER FOR TEMPORARY SEED-ING
0001000000-E	200	1	LS	CLEARING & GRUBBING .. ACRE(S)	6024000000-E	1622	200	LF	TEMPORARY SLOPE DRAINS
0008000000-E	200	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING	6029000000-E	SP	100	LF	SAFETY FENCE
0022000000-E	225	700	CY	UNCLASSIFIED EXCAVATION	6030000000-E	1630	170	CY	SILT EXCAVATION
0036000000-E	225	300	CY	UNDERCUT EXCAVATION	6036000000-E	1631	5000	SY	MATTING FOR EROSION CONTROL
0106000000-E	230	9200	CY	BORROW EXCAVATION	6038000000-E	SP	200	SY	PERMANENT SOIL REINFORCEMENT MAT
0156000000-E	250	2750	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT	6042000000-E	1632	125	LF	1/4" HARDWARE CLOTH
0196000000-E	270	1400	SY	GEOTEXTILE FOR SOIL STABILIZA-TION	6071012000-E	SP	285	LF	COIR FIBER WATTLE
1011000000-N	500	1	LS	FINE GRADING	6071020000-E	SP	90	LB	POLYACRYLAMIDE (PAM)
1121000000-E	520	1000	TON	AGGREGATE BASE COURSE	6084000000-E	1660	3	ACR	SEEDING & MULCHING
1220000000-E	545	100	TON	INCIDENTAL STONE BASE	6087000000-E	1660	2.5	ACR	MOWING
1330000000-E	607	740	SY	INCIDENTAL MILLING	6090000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
1491000000-E	610	950	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C	6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
1503000000-E	610	620	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	6096000000-E	1662	125	LB	SEED FOR SUPPLEMENTAL SEEDING
1523000000-E	610	1590	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	6108000000-E	1665	3.5	TON	FERTILIZER TOPDRESSING
1575000000-E	620	170	TON	ASPHALT BINDER FOR PLANT MIX	6114500000-N	1667	10	MHR	SPECIALIZED HAND MOWING
1577000000-E	620	45	TON	POLYMER MODIFIED ASPHALT BIN- DER FOR PLANT MIX	6117000000-N	SP	18	EA	RESPONSE FOR EROSION CONTROL
1663000000-E	650	720	TON	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED	8622000000-E	876	450	SY	GEOTEXTILE FOR DRAINAGE
1840000000-E	665	6350	LF	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)					
4405000000-E	1110	508	SF	WORK ZONE SIGNS (PORTABLE)					
4415000000-N	1115	2	EA	FLASHING ARROW BOARD					
4420000000-N	1120	5	EA	PORTABLE CHANGEABLE MESSAGE SIGN					
4430000000-N	1130	250	EA	DRUMS					
4480000000-N	1165	2	EA	TMA					
4725000000-E	1205	3	EA	THERMOPLASTIC PAVEMENT MARKINGSYMBOL (90 MILS)					
4815000000-E	1205	7700	LF	PAINT PAVEMENT MARKING LINES (6")					
4847100000-E	1205	9709	LF	POLYUREA PAVEMENT MARKING LINES (6", HIGHLY REFLECTIVE ELEMENTS)					
4847120000-E	1205	210	LF	POLYUREA PAVEMENT MARKING LINES (12", HIGHLY REFLECTIVE ELEMENTS)					
4905000000-N	1253	136	EA	SNOWPLOWABLE PAVEMENT MARKERS					
6000000000-E	1605	2050	LF	TEMPORARY SILT FENCE					
6006000000-E	1610	225	TON	STONE FOR EROSION CONTROL, CLASS A					
6009000000-E	1610	165	TON	STONE FOR EROSION CONTROL, CLASS B					
6012000000-E	1610	85	TON	SEDIMENT CONTROL STONE					
6015000000-E	1615	2.5	ACR	TEMPORARY MULCHING					
6018000000-E	1620	100	LB	SEED FOR TEMPORARY SEEDING					

**STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS**

<b>PROJ. REFERENCE NO.</b>	<b>SHEET NO.</b>
W-5334	3-A

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

**CROSS-SECTION SUMMARY**

STATION L	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)
2404+00	1	11
2404+50	4	76
2405+00	4	115
2405+50	5	164
2406+00	5	239
2406+50	5	230
2407+00	5	195
2407+50	6	204
2408+00	6	242
2408+50	5	277
2409+00	6	238
2409+50	8	173
2410+00	12	132
2410+50	25	129
2411+00	35	125
2411+50	28	121
2412+00	27	132
2412+50	21	209
2413+00	8	269
2413+50	9	250
2414+00	8	253
2414+50	14	241
2415+00	30	176
2415+50	30	120
2416+00	13	115
2416+50	8	126
2417+00	8	124
2417+50	7	123
2418+00	8	123
2418+50	7	123
2419+00	21	118
2419+50	44	110
2420+00	53	115
2420+50	53	143
2421+00	35	177
2421+50	12	197
2422+00	8	196
2422+50	8	213
2423+00	9	211
2423+50	9	183
2424+00	10	171
2424+50	12	159
2425+00	13	132
2425+50	7	53

**SUMMARY OF EARTHWORK**

Volumes in Cubic Yards

STATION TO STATION	Uncl. Excav.	Undercut	Embank +%	Borrow	Waste
L 2403+80 TO 2425+50	652		9042	8716	326
<b>ΣUBTOTAL</b>	<b>652</b>		<b>9042</b>	<b>8716</b>	<b>326</b>
<b>TOTAL</b>	<b>652</b>		<b>9042</b>	<b>8716</b>	<b>326</b>
<b>PROJECT TOTAL</b>	<b>652</b>		<b>9042</b>	<b>8716</b>	<b>326</b>
<b>ESTIMATE TO REPLACE TOPSOIL ON BORROW PIT</b>				436	
<b>ESTIMATED UNDERCUT</b>		<b>300</b>			
<b>SAY</b>	<b>700</b>	<b>300</b>		<b>9200</b>	

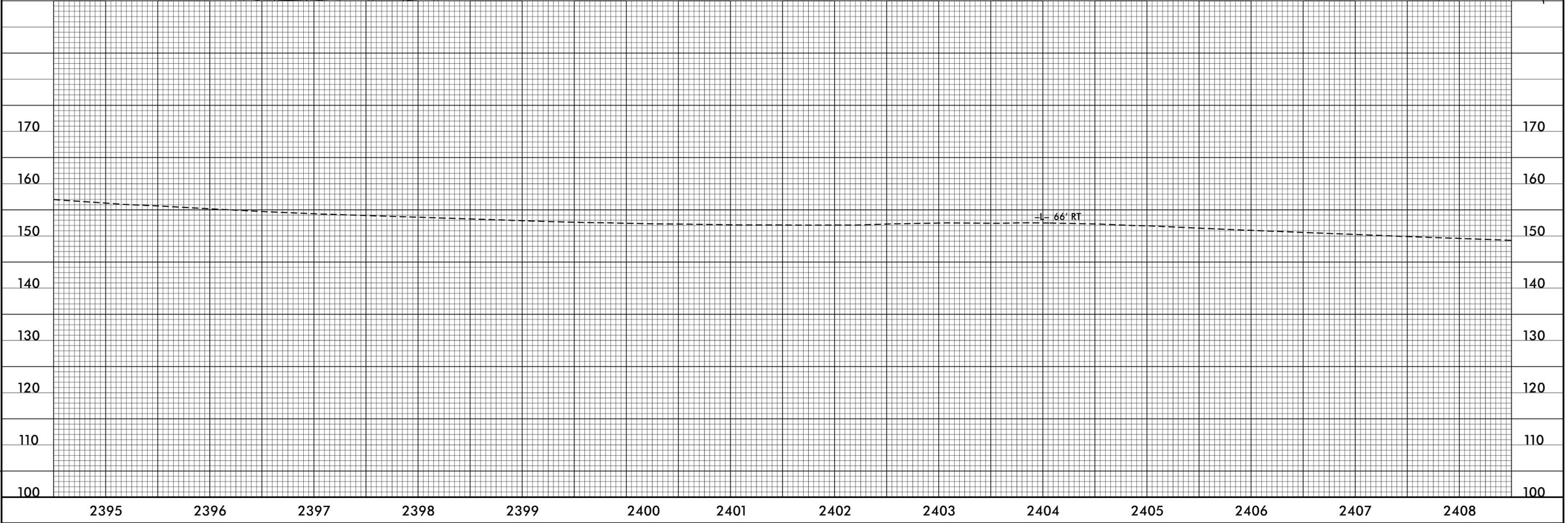
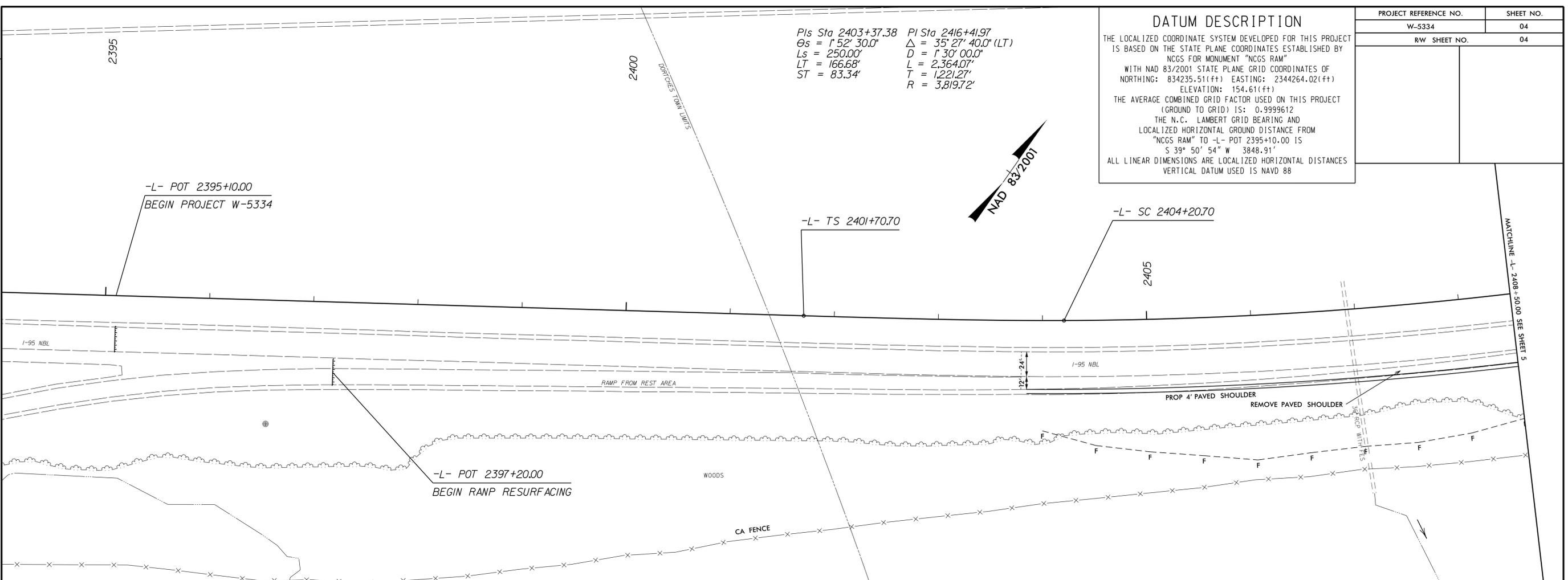
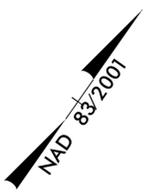
**REMOVAL OF EXISTING  
ASPHALT PAVEMENT**

STATION TO STATION	LOC	SQUARE YARDS
L 2403+80 TO 2425+50	RT	2741
	<b>TOTAL</b>	<b>2741</b>
	<b>SAY</b>	<b>2750</b>

PROJECT REFERENCE NO.	SHEET NO.
W-5334	04
RW SHEET NO.	04

**DATUM DESCRIPTION**  
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "NCGS RAM" WITH NAD 83/2001 STATE PLANE GRID COORDINATES OF NORTHING: 834235.51(fft) EASTING: 2344264.02(fft) ELEVATION: 154.61(fft)  
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999612  
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "NCGS RAM" TO -L- POT 2395+10.00 IS S 39° 50' 54" W 3848.91'  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS NAVD 88

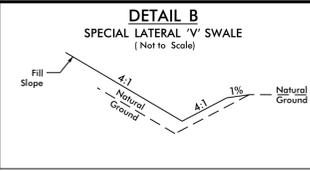
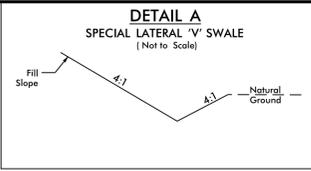
PIs Sta 2403+37.38 PI Sta 2416+41.97  
 $\Theta_s = 1' 52' 30.0"$   $\Delta = 35' 27' 40.0" (LT)$   
 $L_s = 250.00'$   $D = 1' 30' 00.0"$   
 $LT = 166.68'$   $L = 2,364.07'$   
 $ST = 83.34'$   $T = 1,221.27'$   
 $R = 3,819.72'$



REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
W-5334	05
RW SHEET NO.	05

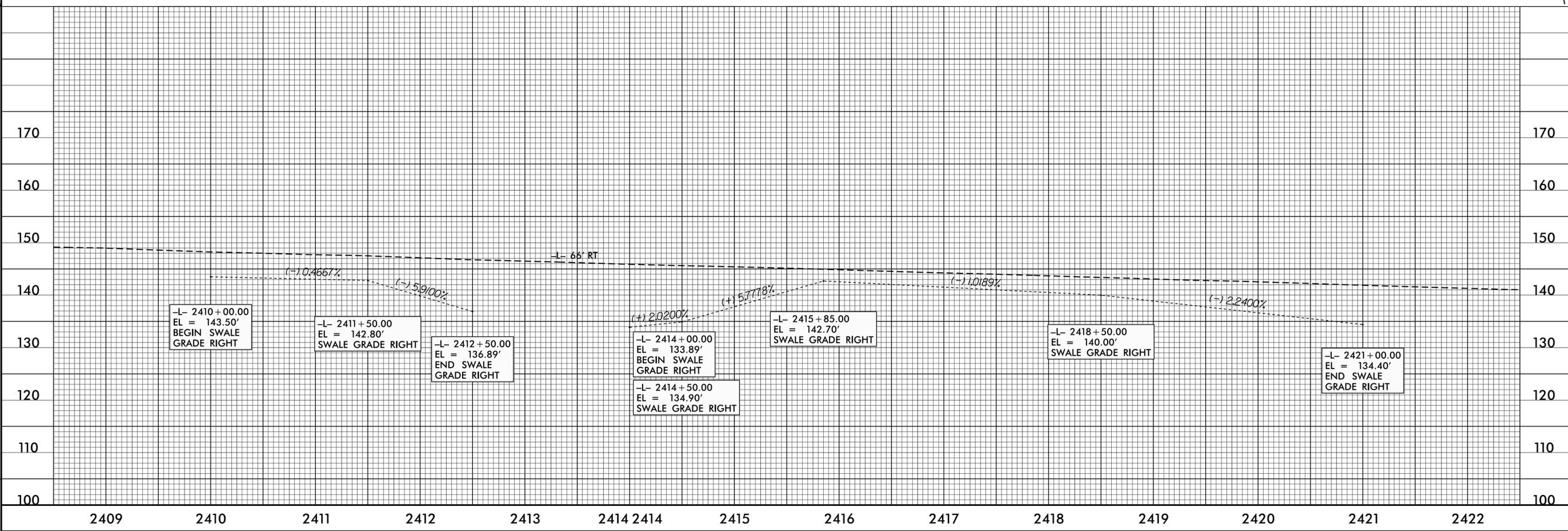
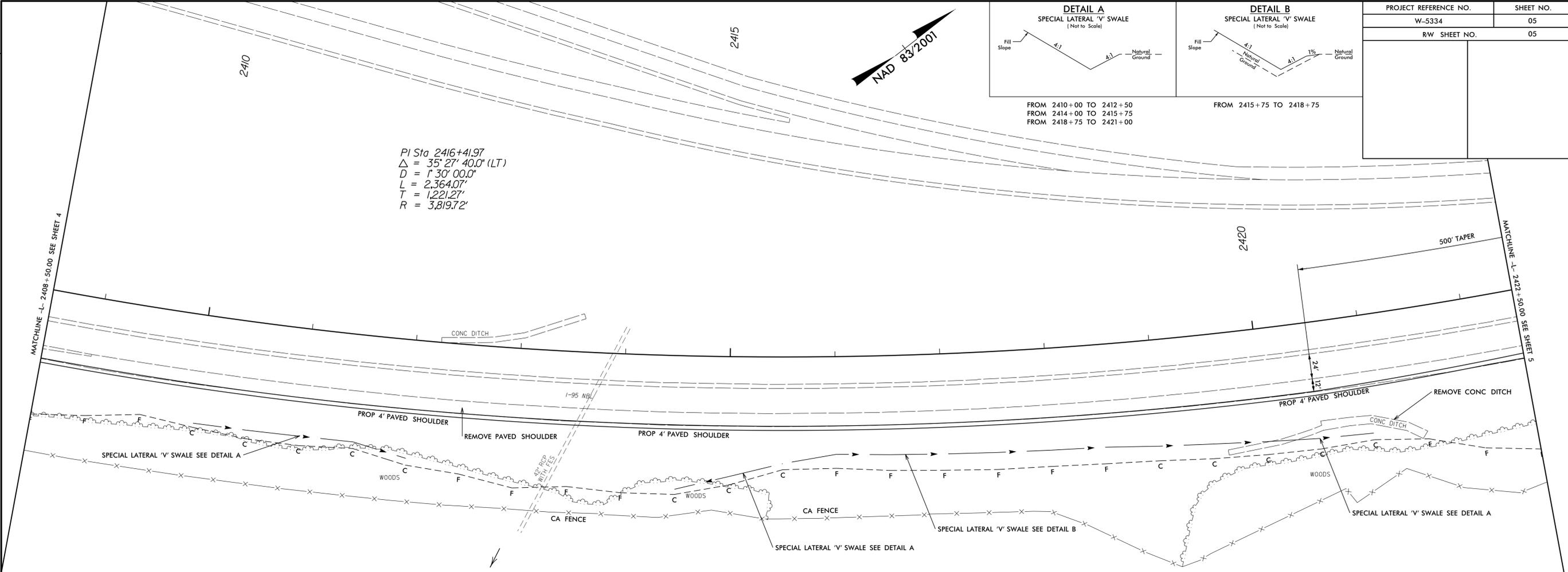


FROM 2410+00 TO 2412+50  
 FROM 2414+00 TO 2415+75  
 FROM 2418+75 TO 2421+00

FROM 2415+75 TO 2418+75



PI Sta. 2416+41.97  
 $\Delta = 35^\circ 27' 40.0''$  (LT)  
 $D = 1^\circ 30' 00.0''$   
 $L = 2,364.07'$   
 $T = 1,221.27'$   
 $R = 3,819.72'$

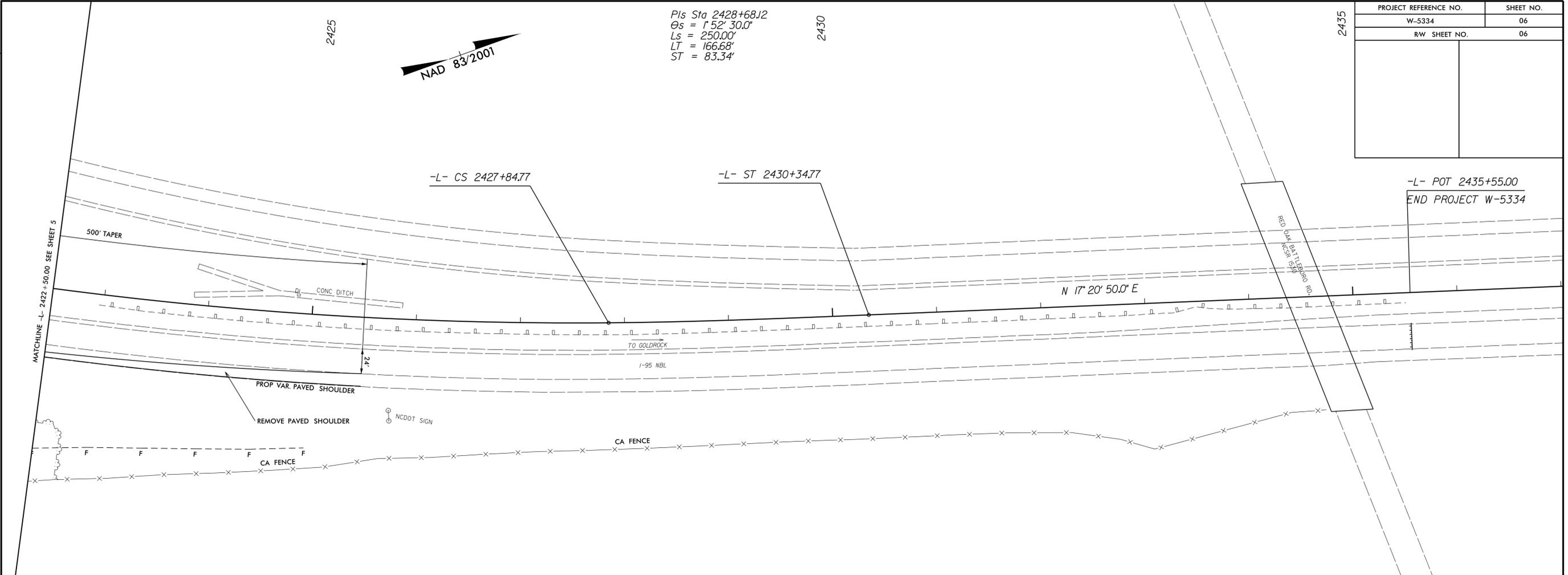


REVISIONS

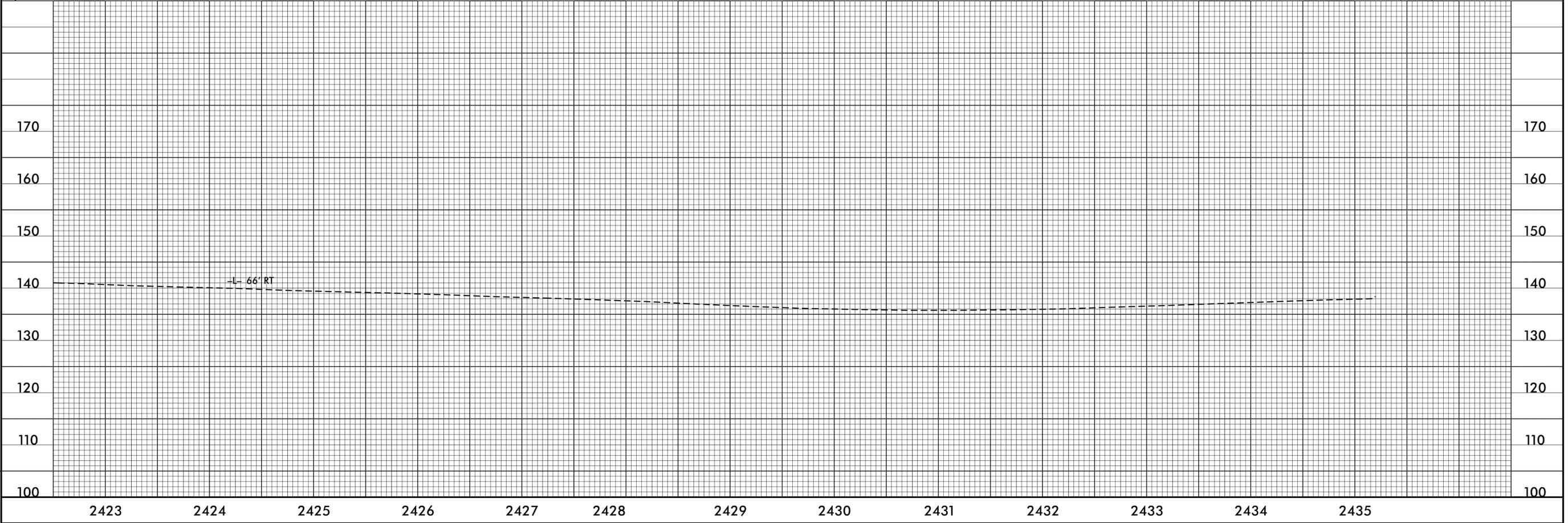
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PROJECT REFERENCE NO.	SHEET NO.
W-5334	06
RW SHEET NO.	06

PIs Sta 2428+68.12  
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 $L_s = 250.00'$   
 $LT = 166.68'$   
 $ST = 83.34'$



REVISIONS

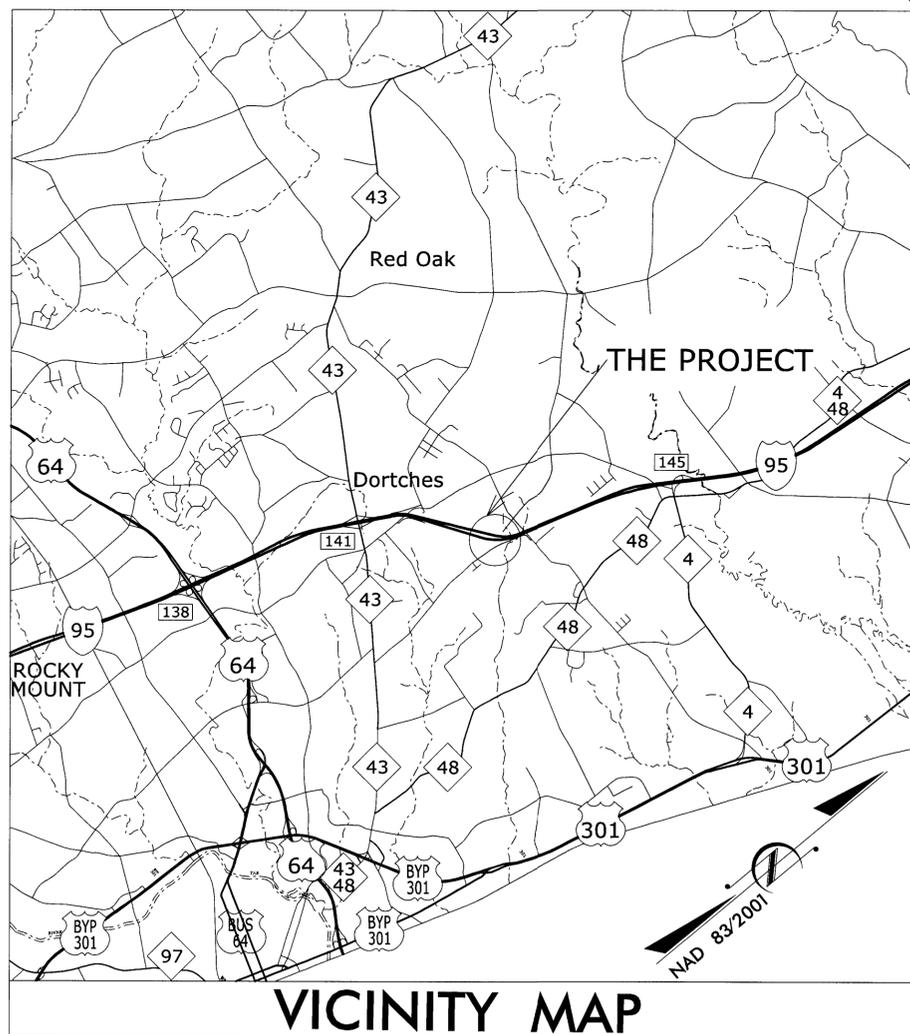


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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**NASH COUNTY**



**LOCATION: I-95 NBL, NASH COUNTY REST AREA  
ACCELERATION RAMP EXTENSION**

**TYPE OF WORK: GRADING AND PAVING**

**INDEX OF SHEETS**

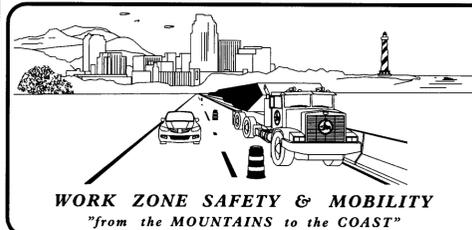
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)
TMP-2	WORK ZONE "VARIABLE" SPEED LIMIT REDUCTION
TMP-3	PHASING
TMP-4-6	DETAILS

SHEET NO.  
TMP-1

**W-5334**

**TIP PROJECT:**

\$\$\$\$\$SYSTEMTIME\$\$\$\$\$  
\$\$\$\$\$DONS\$\$\$\$\$  
\$\$\$\$\$USERNAME\$\$\$\$\$



**N.C.D.O.T. WORK ZONE TRAFFIC CONTROL**  
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561  
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)  
PHONE: (919) 773-2800 FAX: (919) 771-2745

**J. S. BOURNE, P.E.** STATE TRAFFIC MANAGEMENT ENGINEER  
**J. S. KITE, P.E.** TRAFFIC CONTROL PROJECT ENGINEER  
**D. W. BISSETTE, P.E.** TRAFFIC CONTROL PROJECT DESIGN ENGINEER  
TRAFFIC CONTROL DESIGN ENGINEER



Prepared In the Office of:  
**SEPI** ENGINEERING & CONSTRUCTION  
1025 Wade Avenue  
Raleigh, NC 27605  
Tel: 919-789-9577  
Fax: 919-789-9591  
License: C-2197

APPROVED: *St. M*  
DATE: 3-1-13

SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 037026  
STEVEN D. MILLER

# ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION

# LEGEND

## GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

- WORK AREA
- REMOVAL
- USER DEFINED (IF NEEDED)
- USER DEFINED (IF NEEDED)

## SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

## PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

## TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM    SKINNY DRUM    TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

## TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

## PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

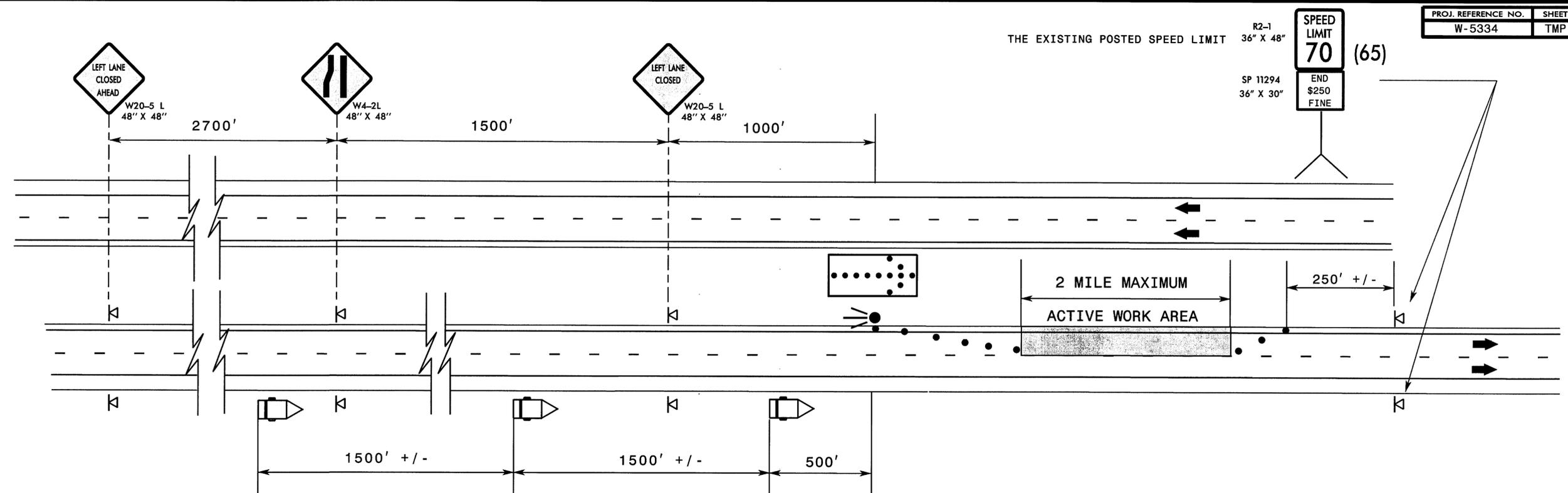
## PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

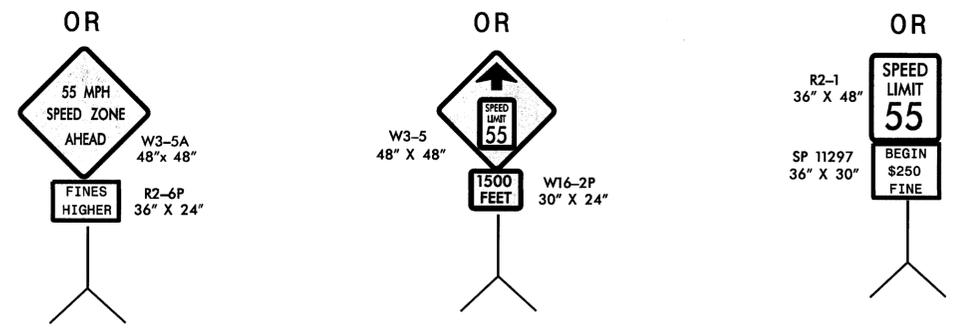
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 \$\$\$DATE\$\$\$\$\$  
 \$\$\$DRAWINGNAME\$\$\$\$\$

APPROVED: <i>Stu Mill</i> DATE: 3-1-13		ROADWAY STANDARD DRAWINGS & LEGEND

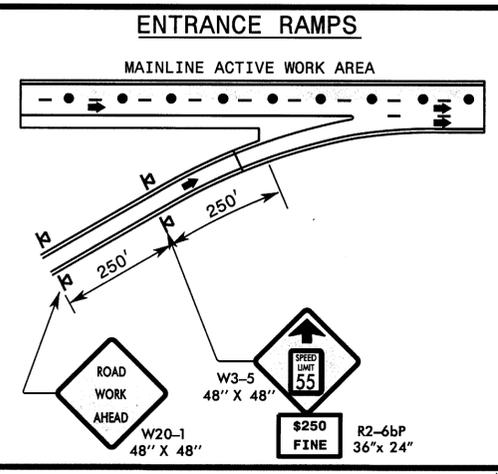




MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
55 MPH ZONE AHEAD	\$250 FINE AHEAD	BEGIN 55 MPH IN 1500 FT	WORKERS IN ROADWAY	SPEED LIMIT 55	BEGIN \$250 FINE
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	



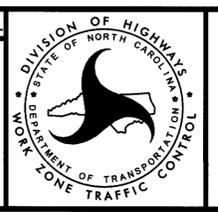
- ### GUIDELINES
- THIS DRAWING IS FOR USE ONLY AFTER AN ENGINEERING INVESTIGATION HAS BEEN PERFORMED BY THE REGIONAL TRAFFIC ENGINEER AND WORK ZONE TRAFFIC CONTROL SECTION. THE WORK ZONE "VARIABLE" SPEED LIMIT IS INTENDED FOR USE ON FREEWAYS WITH SPEED LIMITS 65 MPH OR GREATER. SEE WORK ZONE "VARIABLE" SPEED LIMIT GUIDELINES FOR CRITERIA.
  - THE STATE TRAFFIC ENGINEER HAS TO ORDINANCE THE SPEED LIMIT REDUCTION IN ORDER FOR THE REDUCTION AND/OR \$250 SPEEDING FINE TO BE VALID AND ENFORCEABLE. NO SPEED LIMIT MESSAGES/SIGNS SHALL BE INSTALLED PRIOR TO RECEIVING A SIGNED ORDINANCE. IN ADDITION, THE \$250 SPEEDING FINE ALSO REQUIRES A SEPARATE SIGNED ORDINANCE BY THE STATE TRAFFIC ENGINEER.
  - EACH DIRECTION OF THE PROJECT IS TO BE EVALUATED FOR THE WORK ZONE "VARIABLE" SPEED LIMIT REDUCTION. THIS DRAWING INTENTIONALLY HAS 1 DIRECTION SIGNED AS A REMINDER TO CAREFULLY CONSIDER WHETHER BOTH DIRECTIONS OF THE PROJECT NEED TO HAVE THE SPEED LIMIT REDUCED.
  - THE MAXIMUM LANE CLOSURE LENGTH IS 2 MILES UNLESS OTHERWISE SHOWN IN THE PLANS. IN ADDITION, FOR ACTIVE WORK AREAS THAT EXCEED 1 MILE IN LENGTH, AN EVALUATION IS TO BE MADE TO DETERMINE IF ADDITIONAL CMS'S/SIGNS ARE NEEDED TO SUPPLEMENT THE INITIAL ONES. PORTABLE MOUNTED W3-5 SIGNS WITH SPEEDING PENALTY SIGNS ARE TO BE PLACED ALONG ENTRANCE RAMP LOCATED WITHIN THE ACTIVE WORK AREA.
  - THE \$250 SPEEDING FINE PENALTY APPLIES FOR ALL PROJECTS THAT QUALIFY FOR A WORK ZONE "VARIABLE" SPEED LIMIT REDUCTION.
  - THIS APPLICATION IS FOR SHORT-TERM ACTIVITIES SUCH AS LANE CLOSURES AND ROAD CLOSURES. THE WORK ZONE "VARIABLE" SPEED LIMIT SHALL NOT BE IN OPERATION CONTINUOUSLY (24/7) FOR A PERIOD EXCEEDING 30 CALENDAR DAYS. THE WORK ZONE "VARIABLE" SPEED LIMIT MESSAGING/SIGNAGE SHALL BE REMOVED AT THE COMPLETION OF THE ACTIVITY. THE REGIONAL TRAFFIC ENGINEER WILL BE NOTIFIED BY THE RESIDENT ENGINEER TO RESCIND THE ORDINANCE.
  - WHEN WORK ZONE "VARIABLE" SPEED LIMIT REDUCTIONS ARE IN EFFECT, THE CONTRACTOR IS TO COVER ANY EXISTING SPEED LIMIT SIGNS LOCATED WITHIN THE ACTIVE WORK AREA THAT CONFLICT WITH THE WORK ZONE "VARIABLE" SPEED LIMIT REDUCTION.



- ### NOTES
- THE WORK ZONE "VARIABLE" SPEED LIMIT WILL BE ESTABLISHED IN COLLABORATION BETWEEN THE REGIONAL TRAFFIC ENGINEER, THE DIVISION, AND THE WORK ZONE TRAFFIC CONTROL SECTION. THIS DRAWING SHOWS THE TYPICAL APPLICATION OF REDUCING THE SPEED LIMIT TO 55 MPH.
  - TYPICALLY THE WORK ZONE "VARIABLE" SPEED LIMIT APPLIES TO A SPECIFIC PORTION AND NOT THE ENTIRE PROJECT. THE WORK AREA AFFECTED BY THE SPEED REDUCTION SHOULD NOT EXCEED 2 MILES UNLESS THE MAXIMUM LENGTH OF LANE CLOSURE ALLOWED BY THE PLANS EXCEEDS THE 2 MILE MAXIMUM.
  - THE WORK ZONE "VARIABLE" SPEED LIMIT AND THE \$250 SPEEDING FINE IS TO BEGIN 500' IN ADVANCE OF THE FLASHING ARROW PANEL AT THE MERGE TAPER. THE EXISTING SPEED LIMIT SIGNS AND THE "END \$250 FINE" SIGNS ARE TO BE INSTALLED AT THE LOCATION WHERE THE EXISTING SPEED LIMIT IS TO RESUME.
  - THE NEED AND LOCATION OF ADDITIONAL POSTED WORK ZONE "VARIABLE" SPEED LIMIT SIGNS WITHIN THE LANE CLOSURE IS TO BE DETERMINED BY THE REGIONAL TRAFFIC ENGINEER.

APPROVED: *S.D. Miller* DATE: 3-1-13

SEAL



## WORK ZONE "VARIABLE" SPEED LIMIT REDUCTION

## PHASING

MAINTAIN RAMP ACCESS THROUGHOUT THE ENTIRE PROJECT.

### PHASE I

STEP 1: USING ROADWAY STANDARD DRAWING (RSD) 1101.01 SHEET 1 OF 3, INSTALL ADVANCE WARNING SIGNS ON I-95 AND RAMP.

STEP 2: USING RSD 1101.02 SHEETS 4 AND 9 OF 15 CONSTRUCT THE PROPOSED ROADWAY SECTION FROM -L- STA. 2403+86 TO -L- STA. 2425+50 AS SHOWN ON TMP-4, 5, AND 6 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

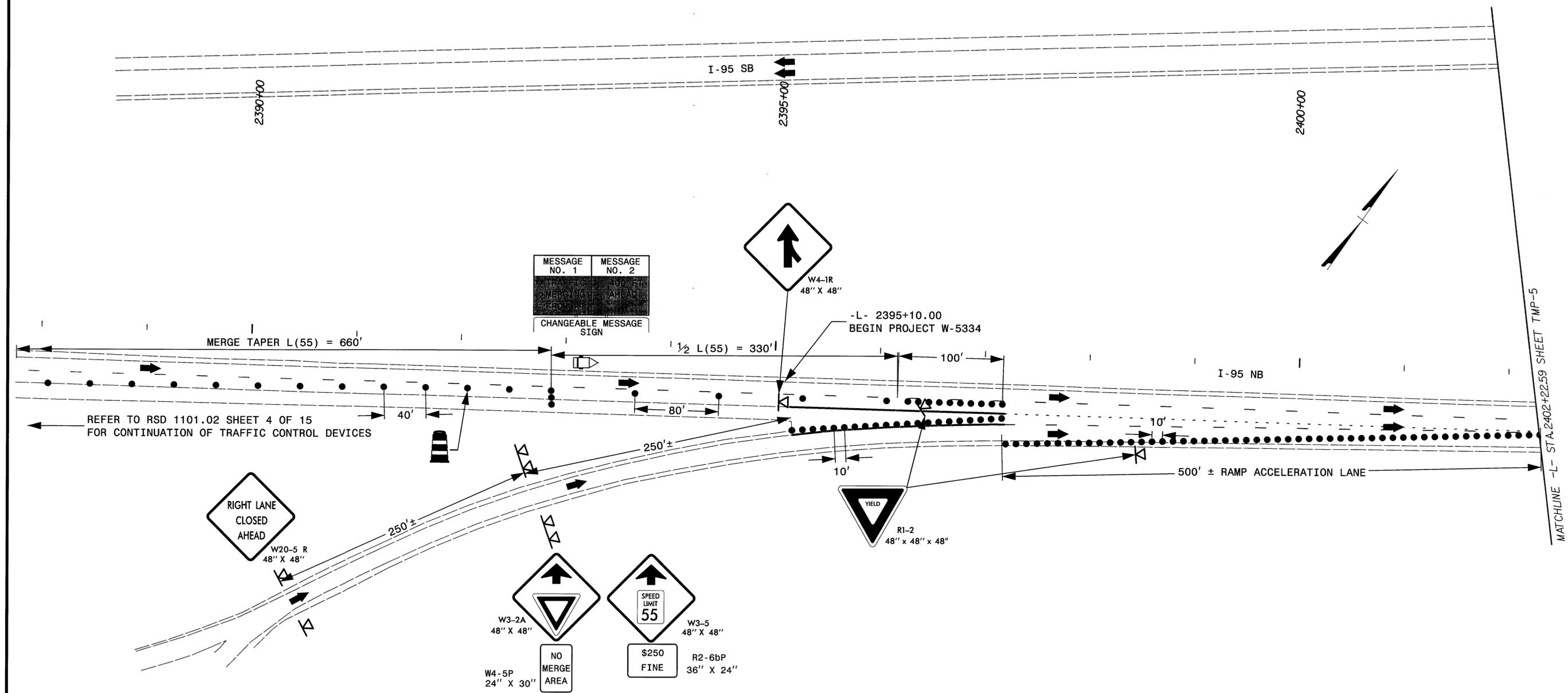
### PHASE II

STEP 1: USING RSD 1101.02 SHEETS 4 AND 9 OF 15 PLACE FINAL LAYER OF SURFACE COURSE AND RESURFACE FROM -L- 2395+10 TO -L- 2435+55. PLACE PAVEMENT MARKINGS AND MARKERS ACCORDING TO THE PAVEMENT MARKING PLANS.

STEP 2: REMOVE ALL TRAFFIC CONTROL DEVICES.

\$\$\$\$\$SYSTEM\$\$\$\$\$  
 \$\$\$USERNAME\$\$\$\$\$

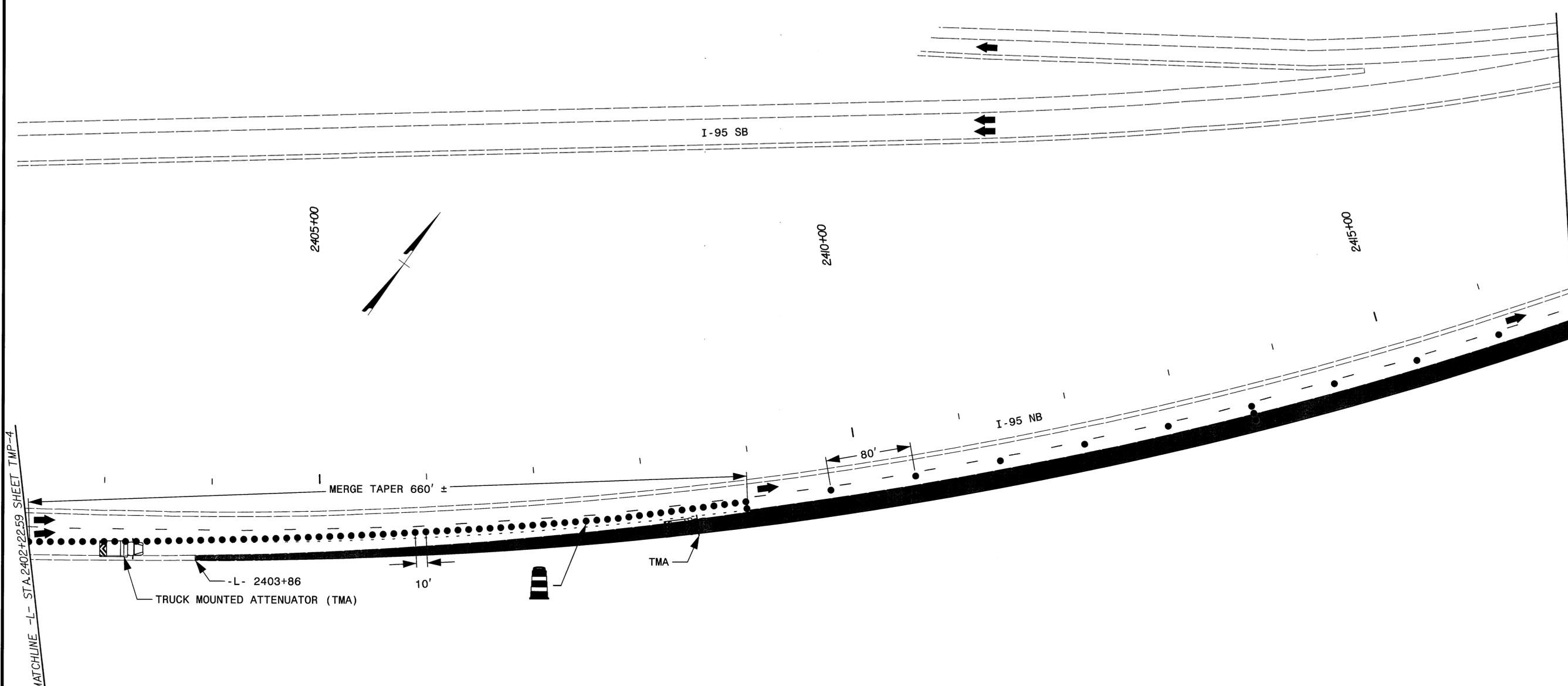
APPROVED: <i>St. Miller</i> DATE: <i>3-1-13</i>			<h1 style="margin: 0;">PHASING</h1>
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MATCHLINE -L- STA. 2402+22.59 SHEET TMP-5

\$\$\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$SDON\$\$\$\$\$  
 \$\$\$USERNAME\$\$\$\$\$

APPROVED: <i>Ed. Miller</i>	DATE: 5-1-13		<h1>DETAIL</h1>



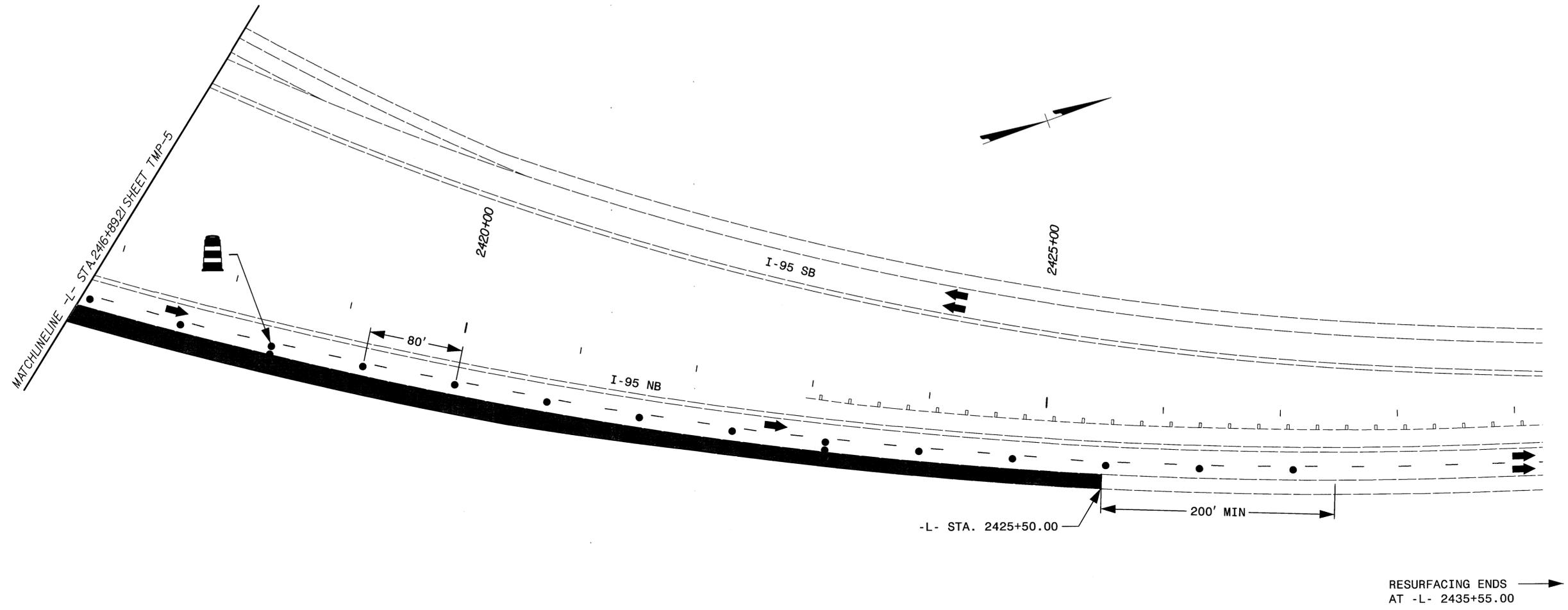
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APPROVED: *St. Miller* DATE: 3-1-13

SEAL



**DETAIL**



\$\$\$\$SYTIME\$\$\$\$  
 \$\$\$SERVNAME\$\$\$

APPROVED: <i>[Signature]</i> DATE: 3-1-13		<h1>DETAIL</h1>

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

TIP NO. W-5334	SHEET NO. PMP-1
APPROVED: <i>Steve Miller</i>	
DATE: 3-1-13	
SEAL	

PAVEMENT MARKING PLAN

NASH COUNTY

LOCATION: I-95 NBL, NASH COUNTY REST AREA  
ACCELERATION RAMP EXTENSION

T.I.P.: W-5334

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMP
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
I-95	POLYUREA WITH HIGHLY REFLECTIVE ELEMENTS	PERMANENT RAISED
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.
- E) MARKERS SHALL BE INSTALLED ACCORDING TO THE NCDOT ROADWAY STANDARD DRAWING 1250.01.

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
	POLYUREA (6")
V6	WHITE EDGELINE
V7	YELLOW EDGELINE
VJ	10 FT. WHITE SKIP
VK	3 FT. - 9FT./SP WHITE MINISKIP
	POLYUREA (12")
VS	WHITE GORELINE
	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)
	MARKING SYMBOLS (90 MILS)
UP	MERGE ARROW

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2-4	PAVEMENT MARKING DETAIL

PLAN REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

AYMAN I. ALQUDWAH, P.E. SIGNING & DELINEATION REGIONAL ENGINEER  
SIGNING & DELINEATION PROJECT DESIGN ENGINEER/TECHNICIAN



PLAN PREPARED BY:

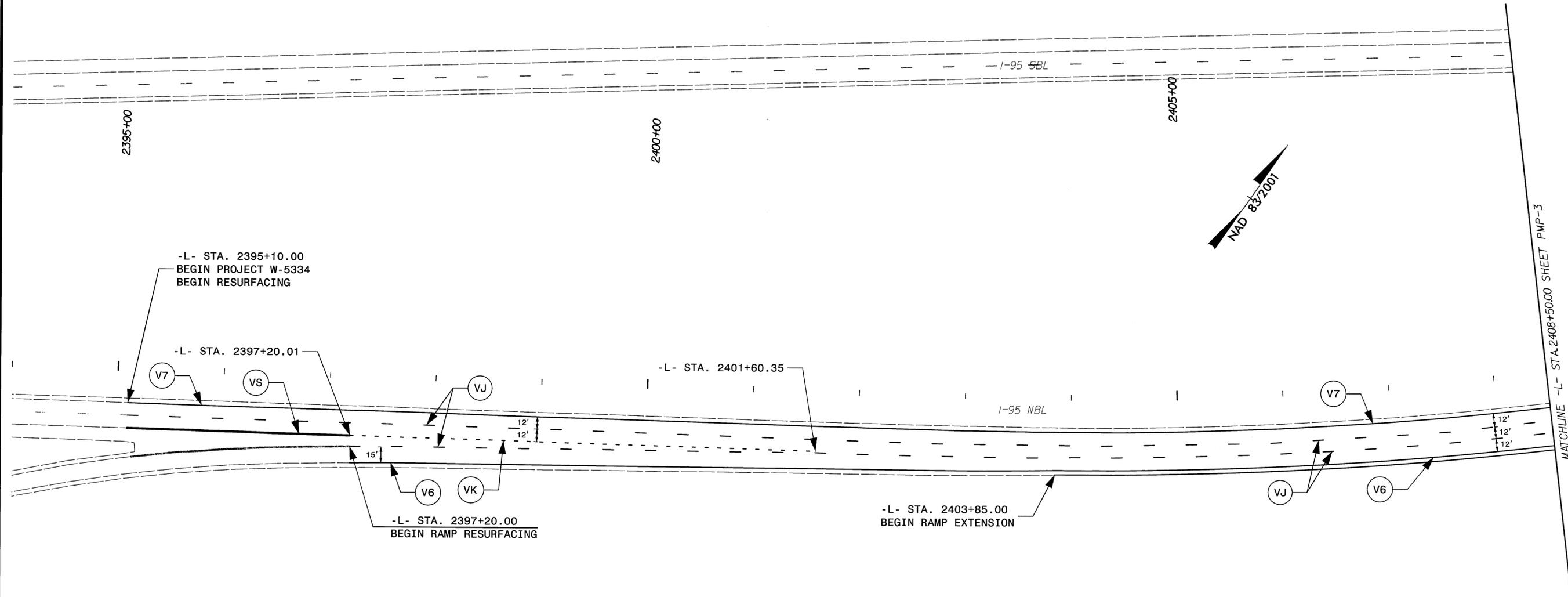
CLIFF LAWSON, E.I. PROJECT ANALYST  
STEVE MILLER, P.E. TRANSPORTATION ENGINEER



\$\$\$ TIME TO GO TO THE STORE \$\$\$

CONTRACT:

TIP NO. W-5334	SHEET NO. PMP-2
APPROVED: <i>St. Mills</i>	
DATE: 3-1-13	
SEAL	



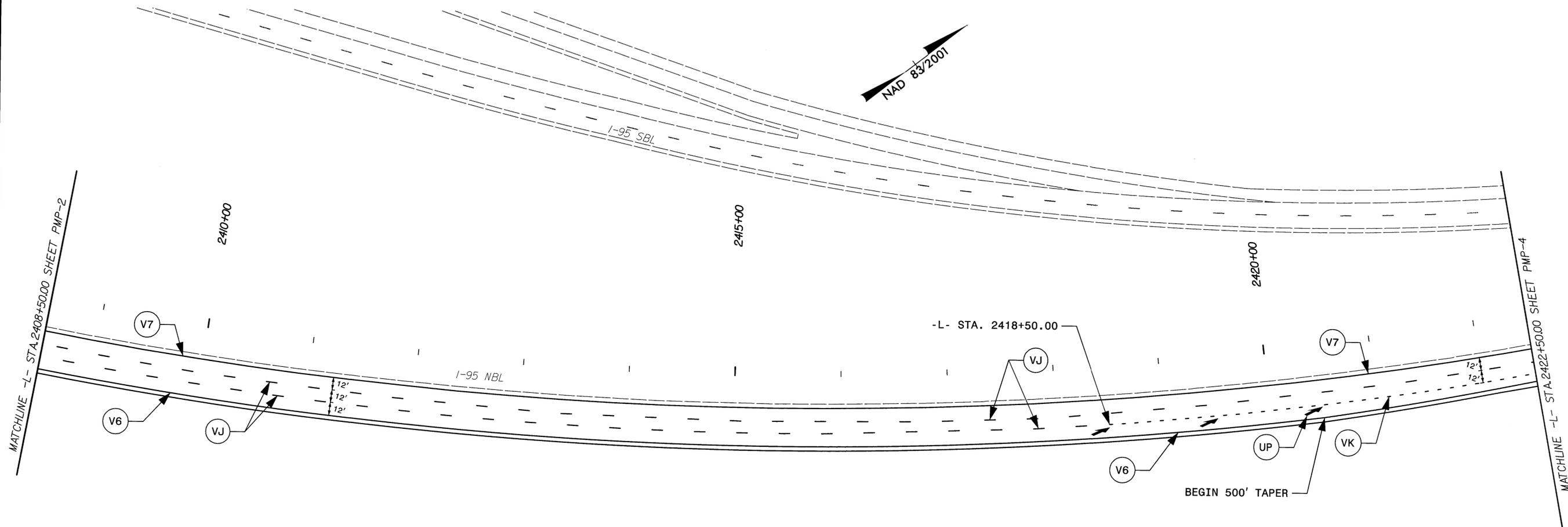
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 \$\$\$DDON\$\$\$  
 \$\$\$USERNAME\$\$\$

**SEPI**  
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 CONSTRUCTION

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 Raleigh, NC 27605  
 Tel: 919-789-9977  
 Fax: 919-789-9591  
 License: C-2197

**PAVEMENT MARKING DETAIL**

TIP NO.	SHEET NO.
W-5334	PMP-3
APPROVED: <i>St. Miller</i>	
DATE: 3-1-13	
SEAL	



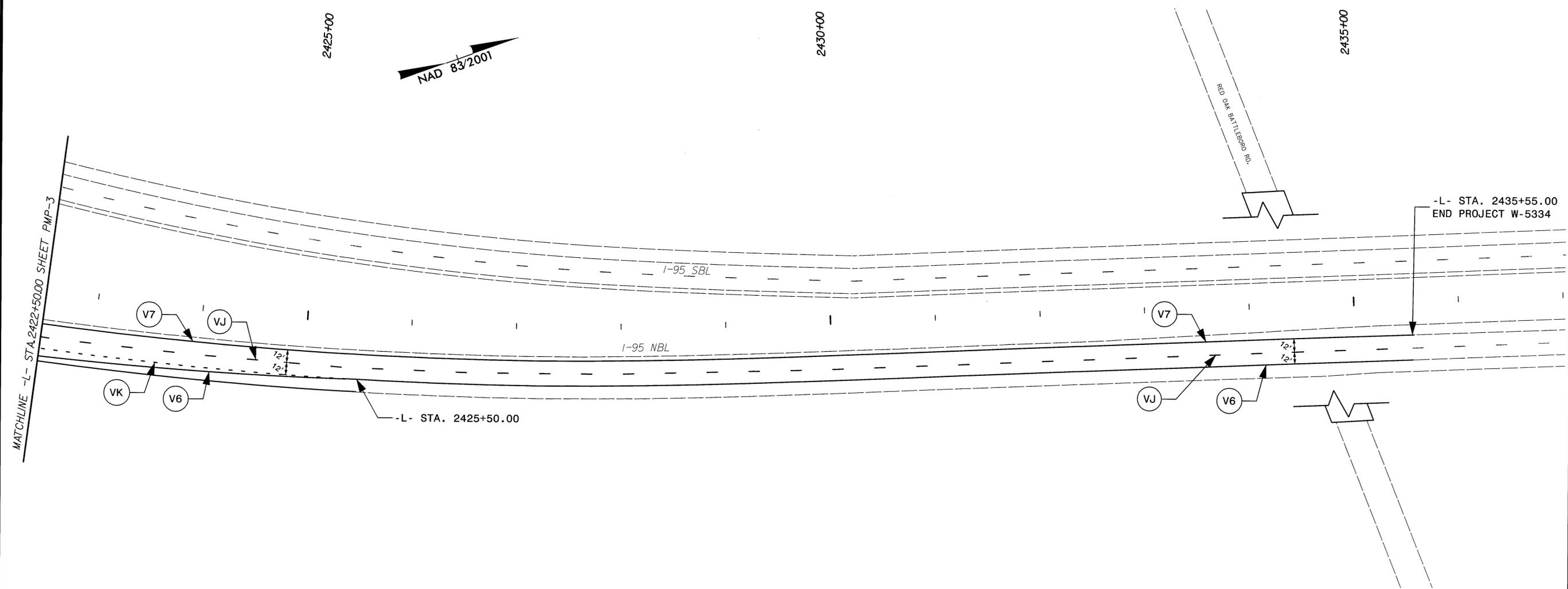
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 \$\$\$DDCN\$\$\$\$\$  
 \$\$\$SERNAME\$\$\$\$\$

**SEPI**  
 ENGINEERING & CONSTRUCTION

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 Tel: 919-799-9977  
 Fax: 919-799-9991  
 License: C-2197

**PAVEMENT MARKING DETAIL**

TIP NO.	SHEET NO.
W-5334	PMP-4
APPROVED: <i>St. Mill</i>	
DATE: 3-1-13	
SEAL	



\$\$\$\$\$SYTIME\$\$\$\$\$  
\$\$\$\$\$BDGN\$\$\$\$\$  
\$\$\$\$\$USERNAME\$\$\$\$\$

**SEPI**  
ENGINEERING &  
CONSTRUCTION

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Raleigh, NC 27605  
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Fax: 919-789-9591  
License: C-2197

**PAVEMENT MARKING DETAIL**

TIP PROJECT: W-5334

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
NASH COUNTY

LOCATION: I-95 NBL, NASH COUNTY REST AREA
ACCELERATION RAMP EXTENSION
TYPE OF WORK: GRADING AND PAVING

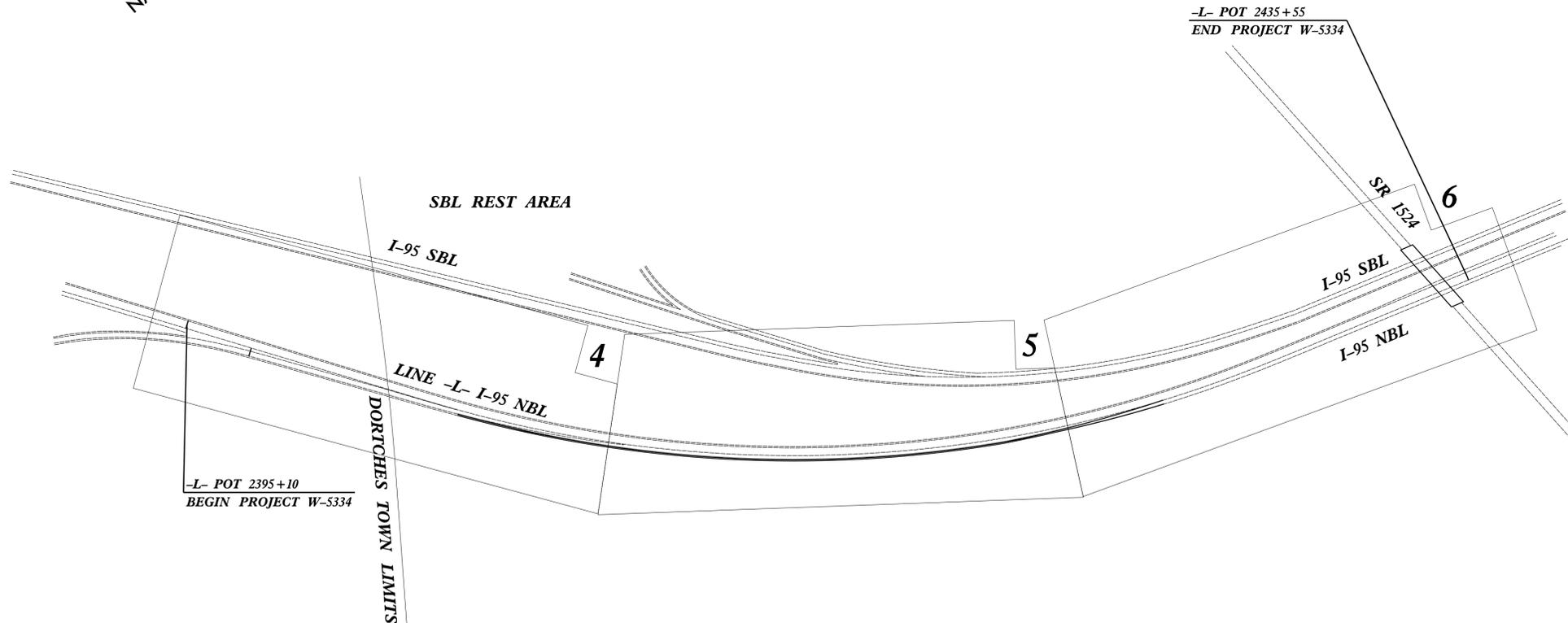
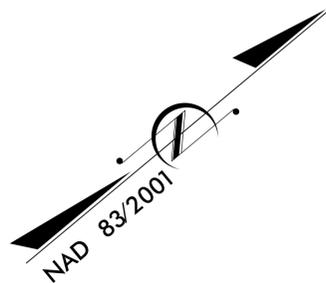


Table with 4 columns: STATE, STATE PROJECT REFERENCE NO., SHEET NO., TOTAL SHEETS. Values: N.C., W-5334, EC-1, 1.

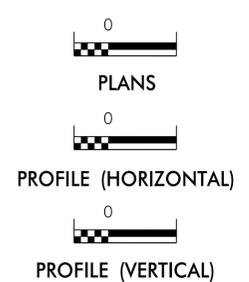
EROSION AND SEDIMENT CONTROL MEASURES

Table listing erosion and sediment control measures with columns for Std. #, Description, and Symbol. Includes items like Temporary Silt Ditch, Rock Inlet Sediment Trap, and Stilling Basin.

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

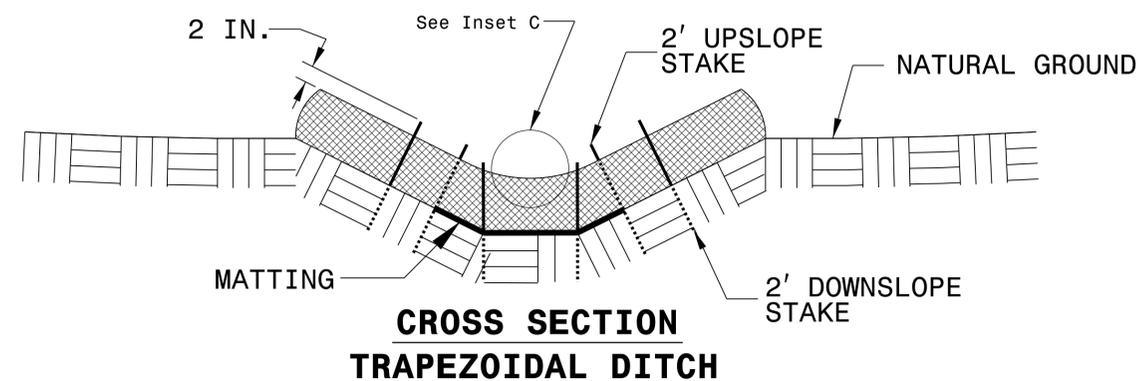
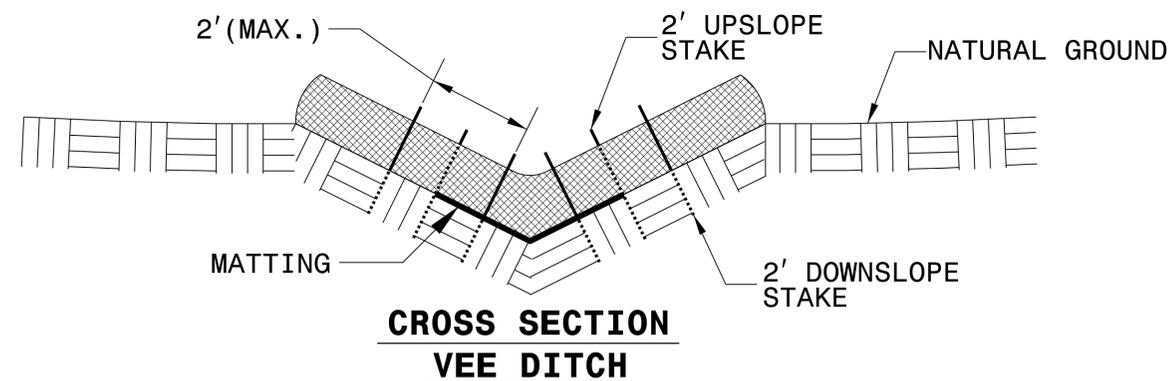
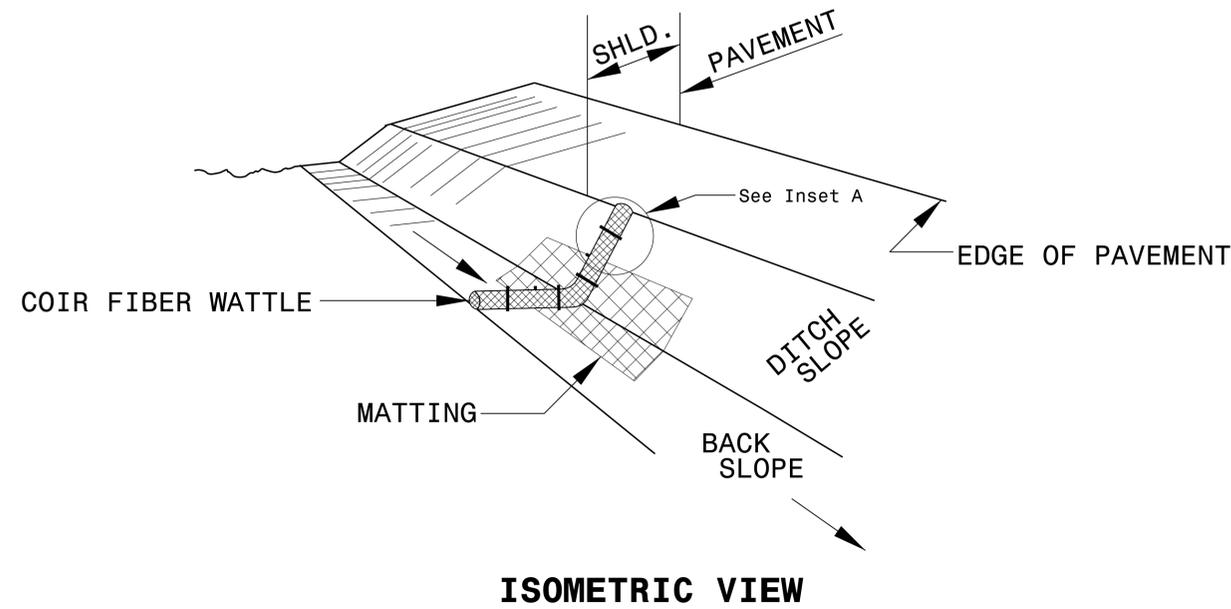
THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611
2012 STANDARD SPECIFICATIONS

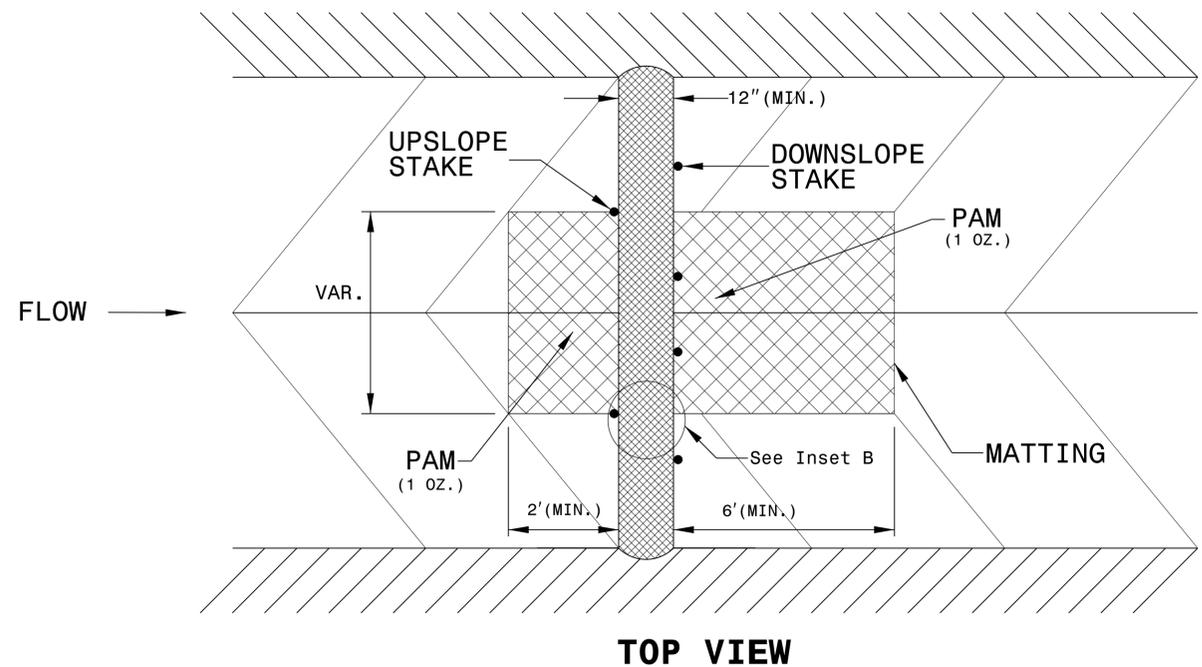
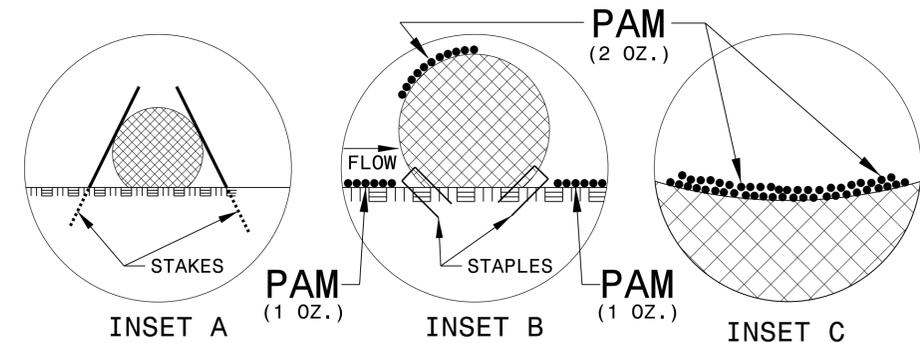
Table titled 'Roadway Standard Drawings' listing various standards and their descriptions, such as Railroad Erosion Control Detail, Rock Inlet Sediment Trap, and Temporary Silt Fence.

# COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

PROJECT REFERENCE NO. W-5334	SHEET NO. EC-2
RW SHEET NO.	



- NOTES:
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
  - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
  - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
  - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
  - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
  - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
  - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
  - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
  - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO.	SHEET NO.
W-5334	EC-3A

## ***SOIL STABILIZATION TIMEFRAMES***

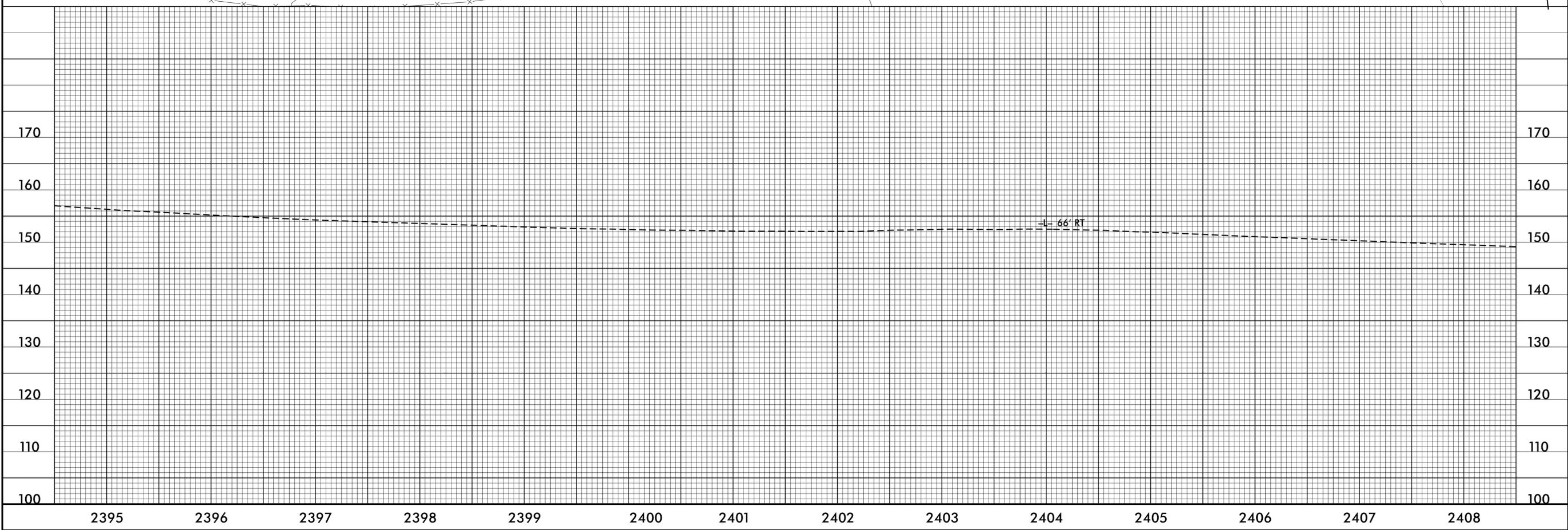
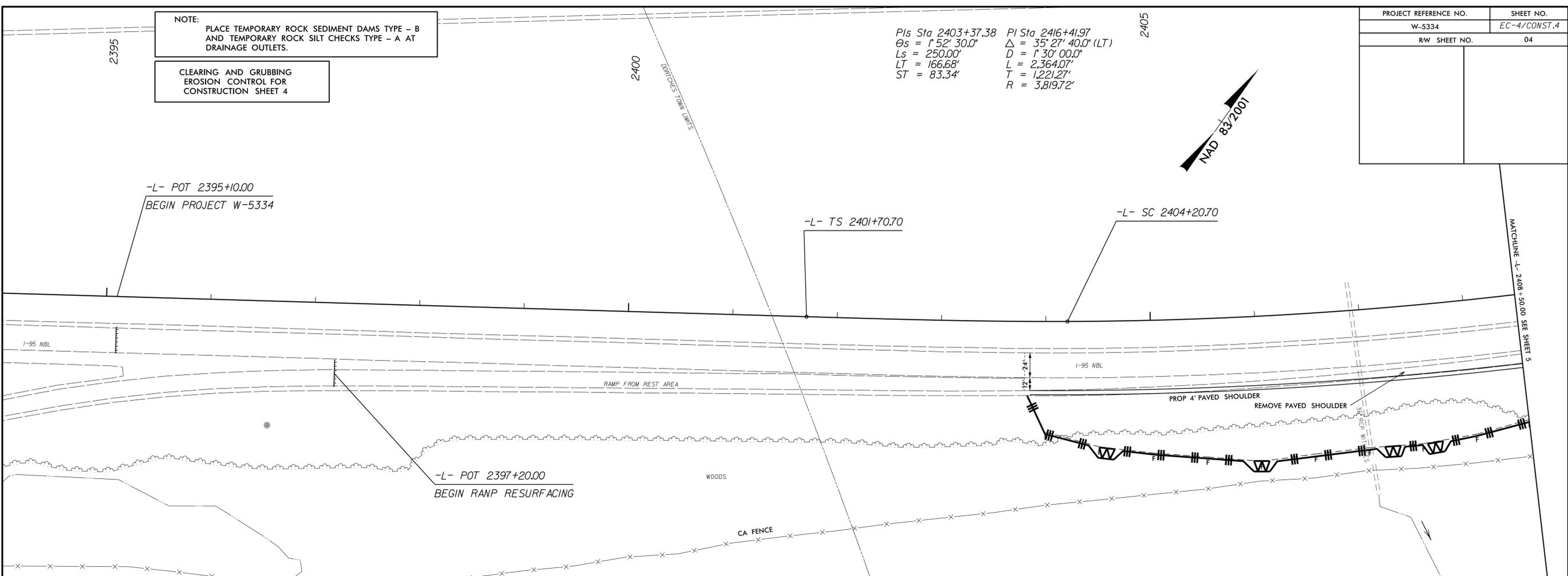
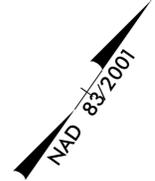
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
W-5334	EC-4/CONST.4
RW SHEET NO.	04

NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

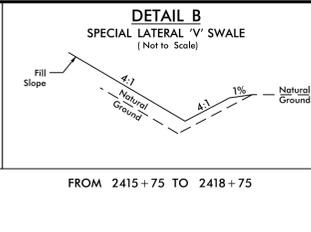
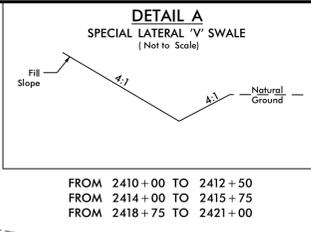
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

Pls Sta 2403+37.38 PI Sta 2416+41.97  
 $\theta_s = 1^{\circ} 52' 30.0''$   $\Delta = 35^{\circ} 27' 40.0''$  (LT)  
 $L_s = 250.00'$   $D = 1^{\circ} 30' 00.0''$   
 $LT = 166.68'$   $L = 2,364.07'$   
 $ST = 83.34'$   $T = 1,221.27'$   
 $R = 3,819.72'$



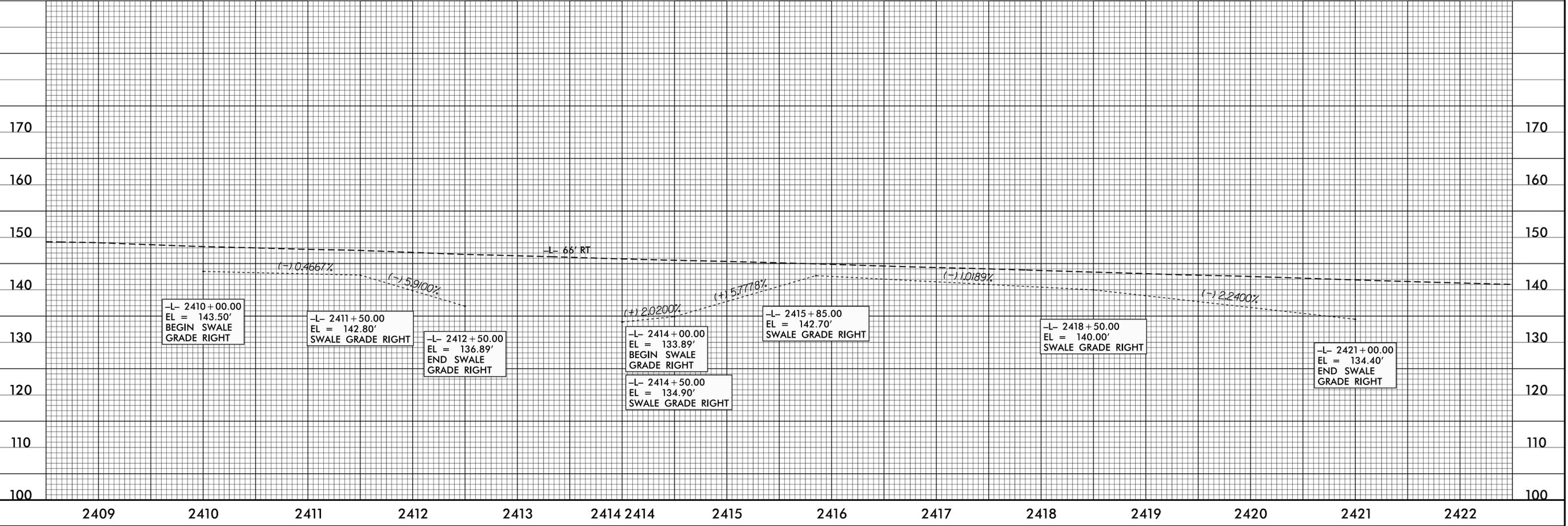
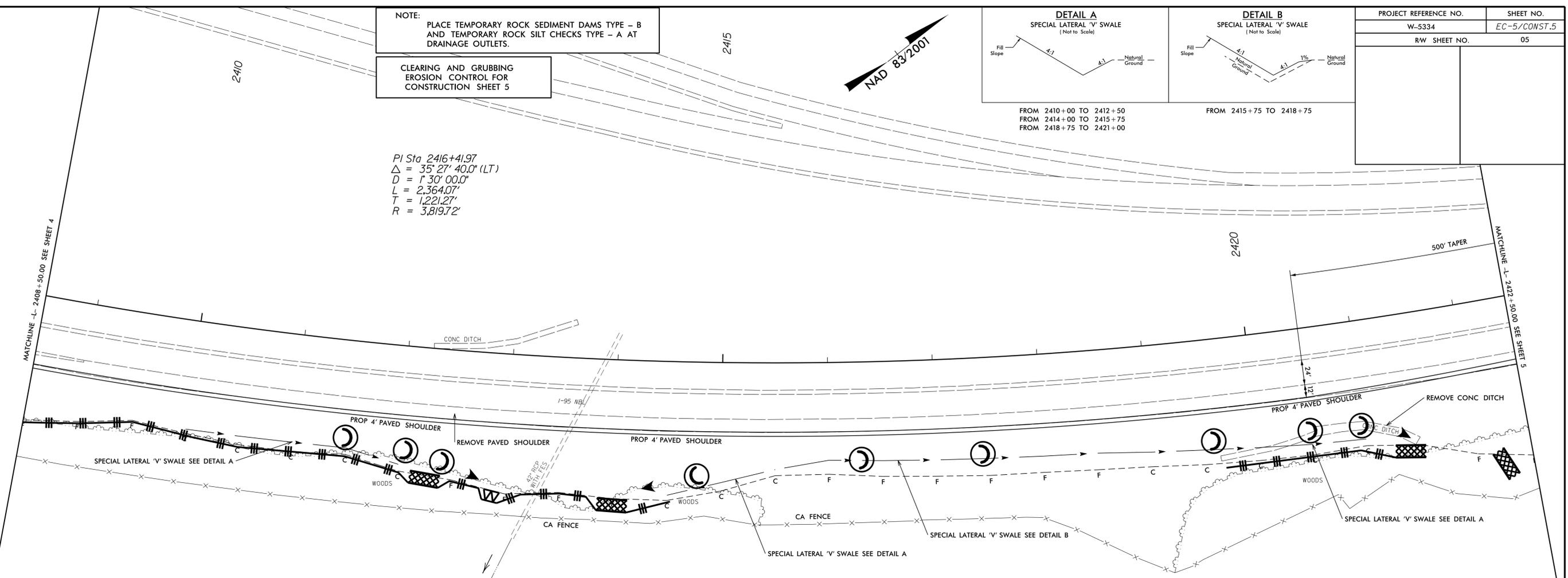
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 5



PROJECT REFERENCE NO.	SHEET NO.
W-5334	EC-5/CONST.5
RW SHEET NO.	05

PI Sta 2416+41.97  
 $\Delta = 35^\circ 27' 40.0''$  (LT)  
 $D = 1^\circ 30' 00.0''$   
 $L = 2,364.07'$   
 $T = 1,221.27'$   
 $R = 3,819.72'$

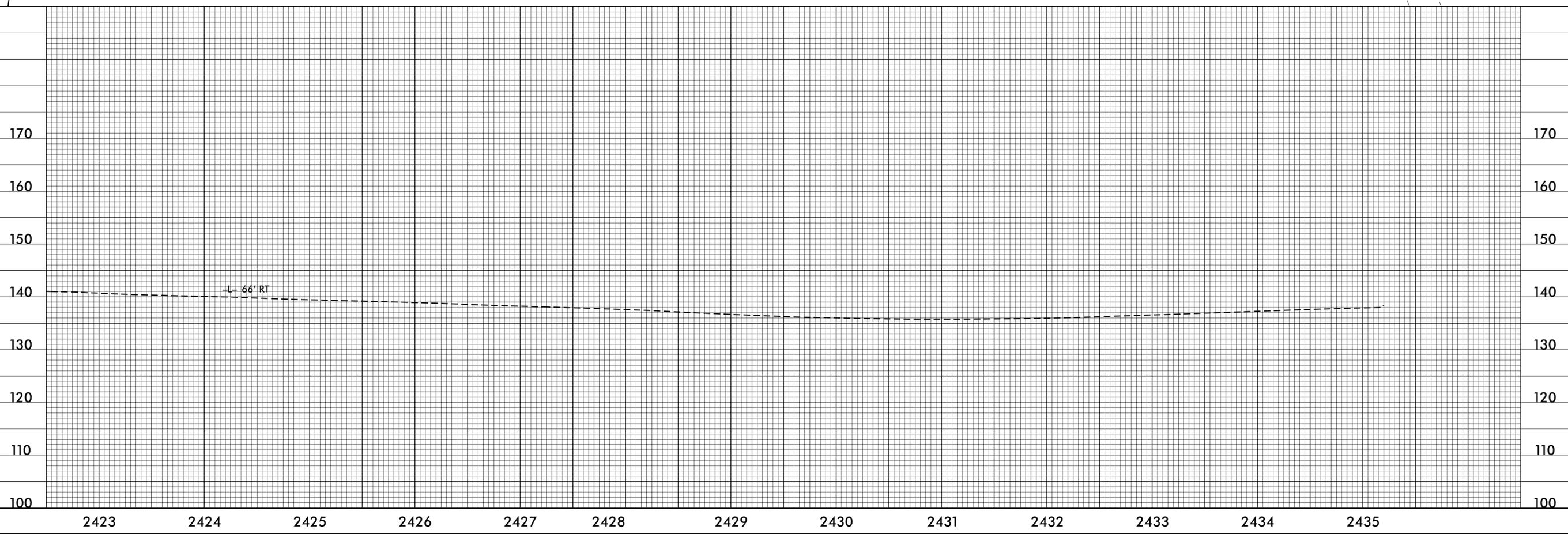
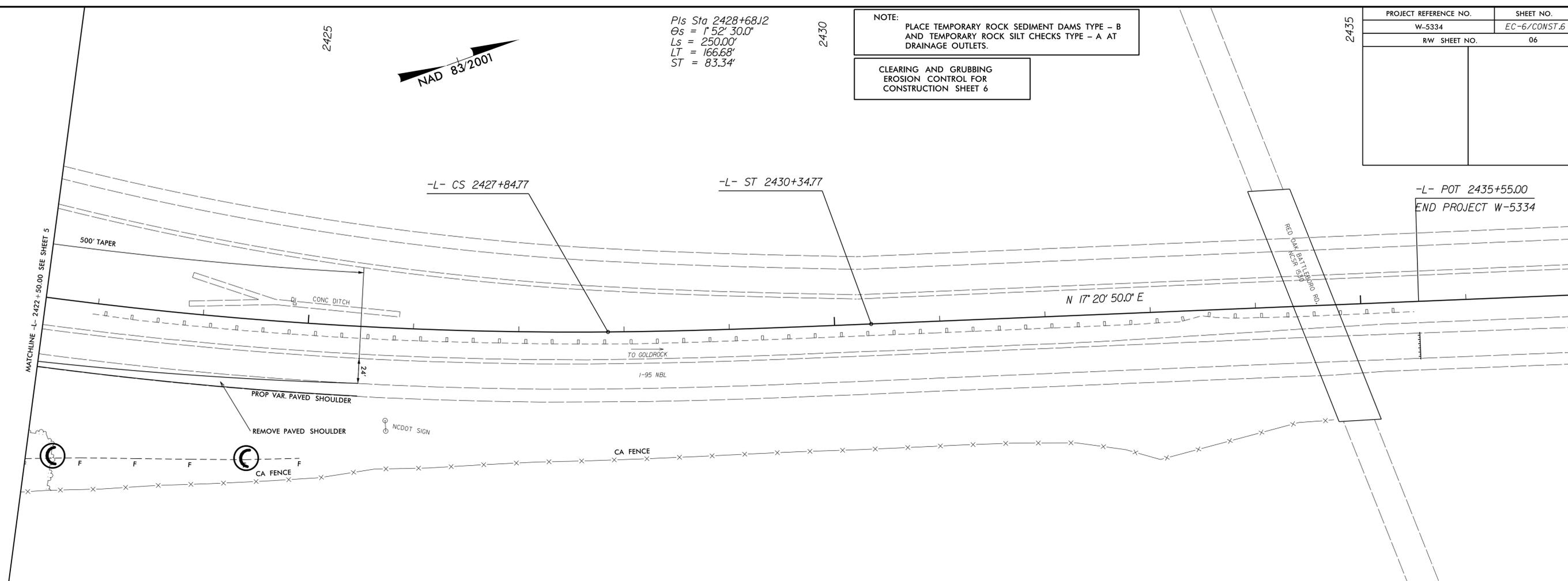


PROJECT REFERENCE NO.	SHEET NO.
W-5334	EC-6/CONST.6
RW SHEET NO.	06

Pls Sta 2428+68.12  
 $\theta_s = 1^{\circ}52'30.0''$   
 $L_s = 250.00'$   
 $LT = 166.68'$   
 $ST = 83.34'$

NOTE:  
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
 DRAINAGE OUTLETS.

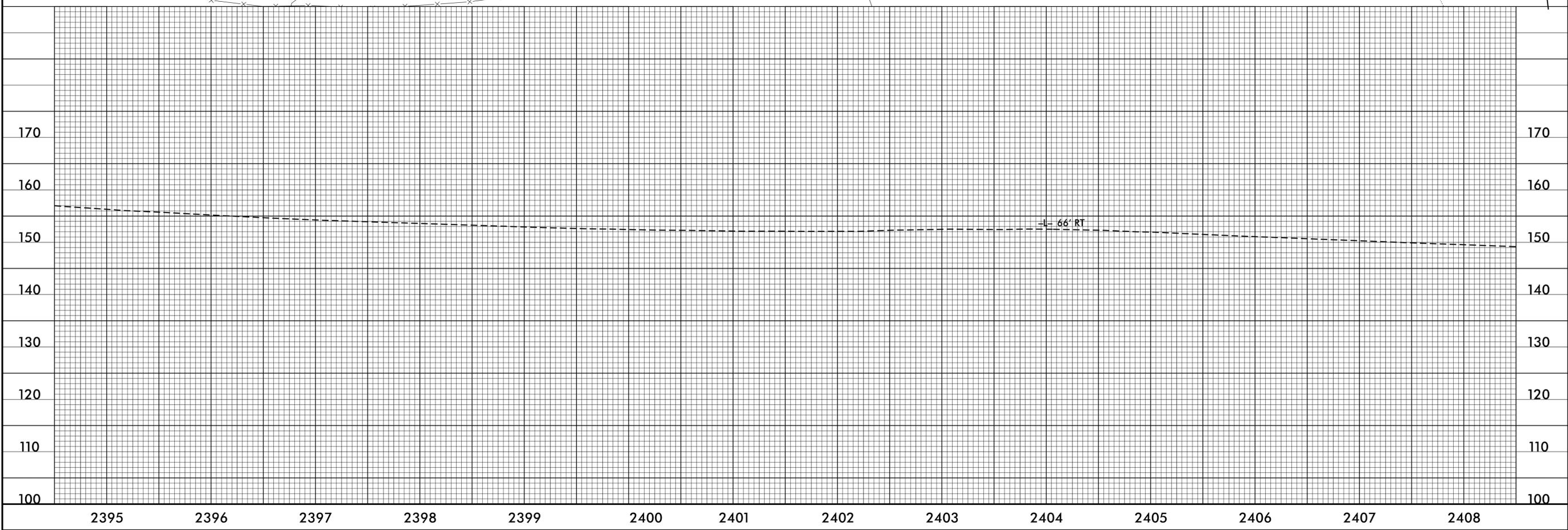
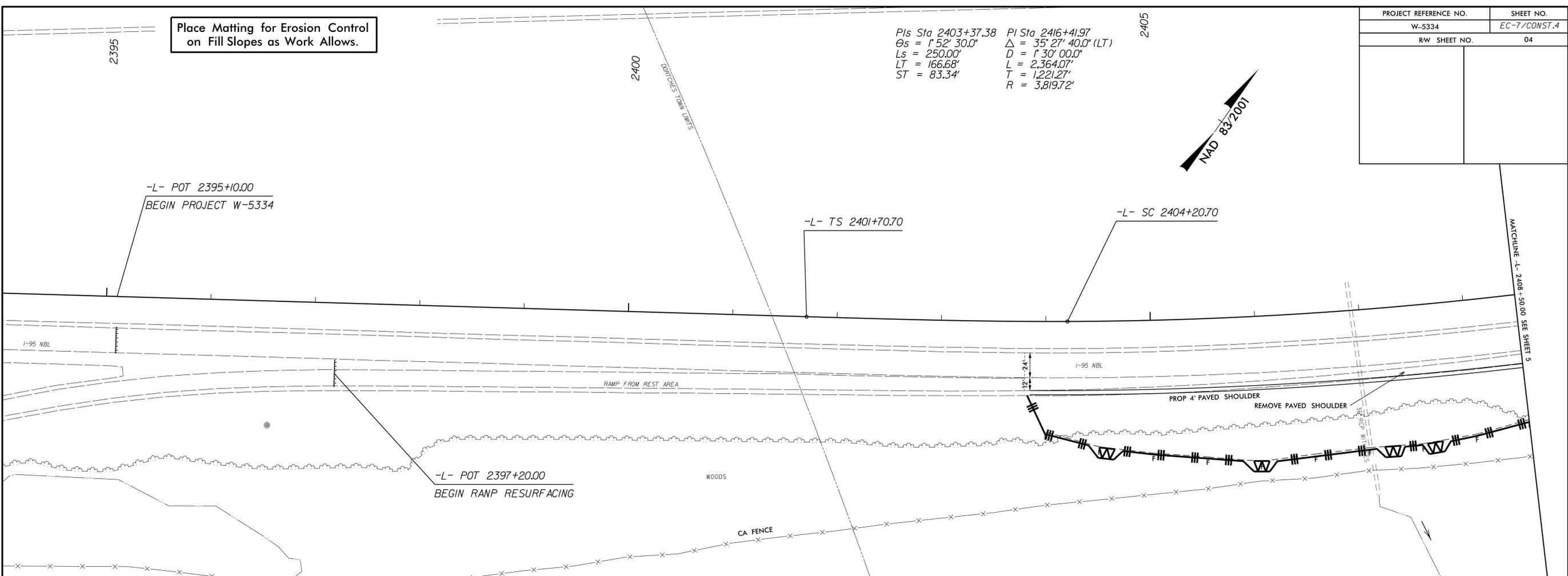
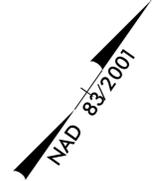
CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 6



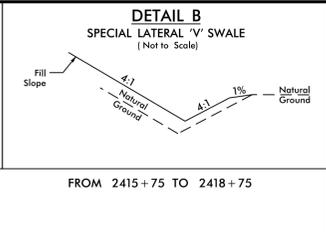
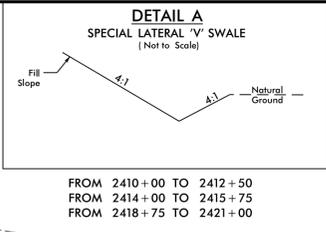
Place Matting for Erosion Control on Fill Slopes as Work Allows.

Pls Sta 2403+37.38 PI Sta 2416+41.97  
 $\theta_s = 1^{\circ}52'30.0''$   $\Delta = 35^{\circ}27'40.0''$  (LT)  
 $L_s = 250.00'$   $D = 1^{\circ}30'00.0''$   
 $LT = 166.68'$   $L = 2,364.07'$   
 $ST = 83.34'$   $T = 1,221.27'$   
 $R = 3,819.72'$

PROJECT REFERENCE NO.	SHEET NO.
W-5334	EC-7/CONST.4
RW SHEET NO.	04

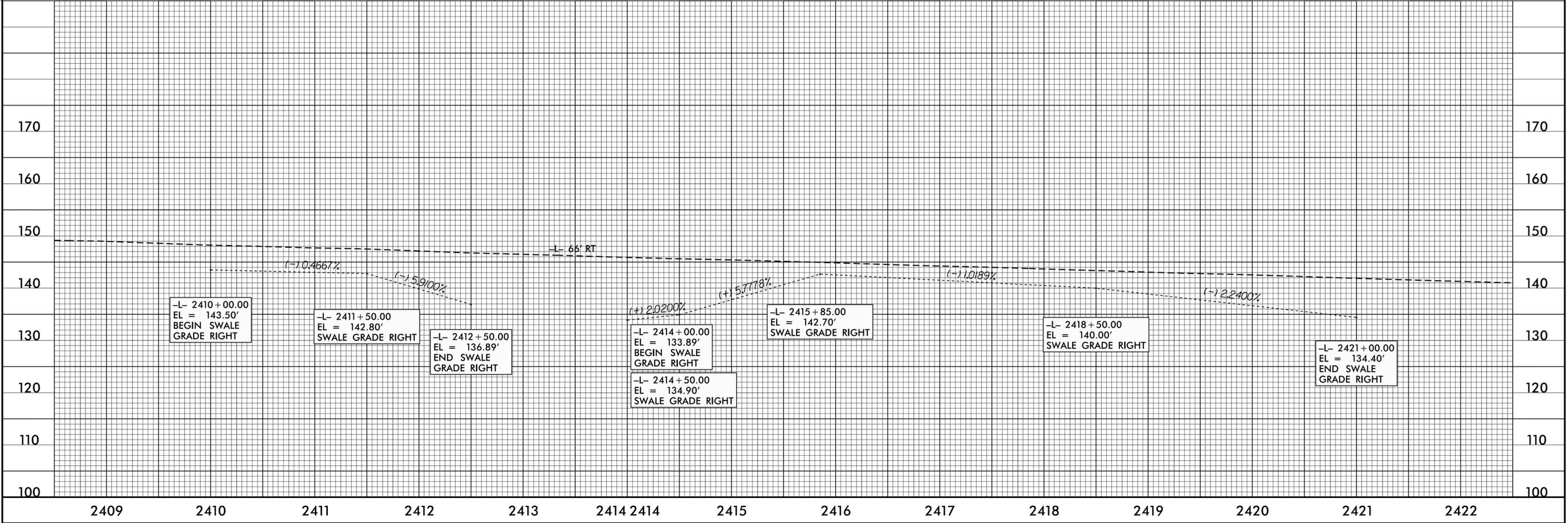
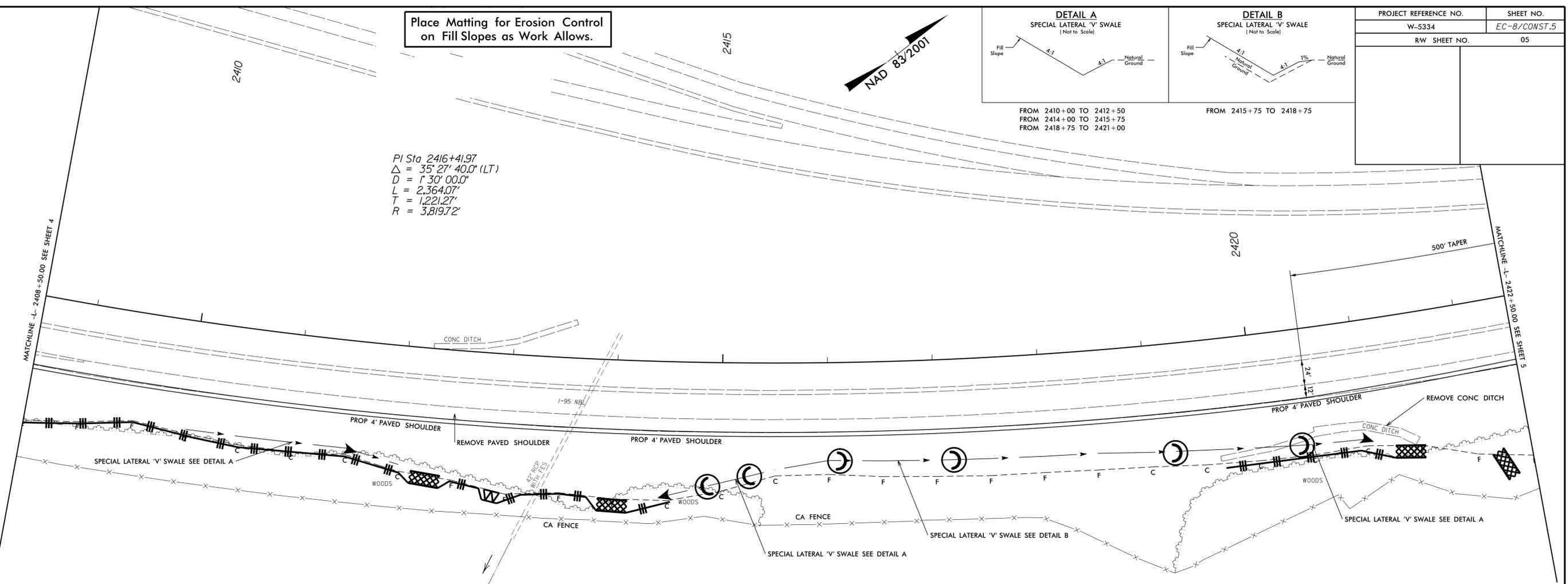


Place Matting for Erosion Control on Fill Slopes as Work Allows.



PROJECT REFERENCE NO.	SHEET NO.
W-5334	EC-B/CONST.5
RW SHEET NO.	05

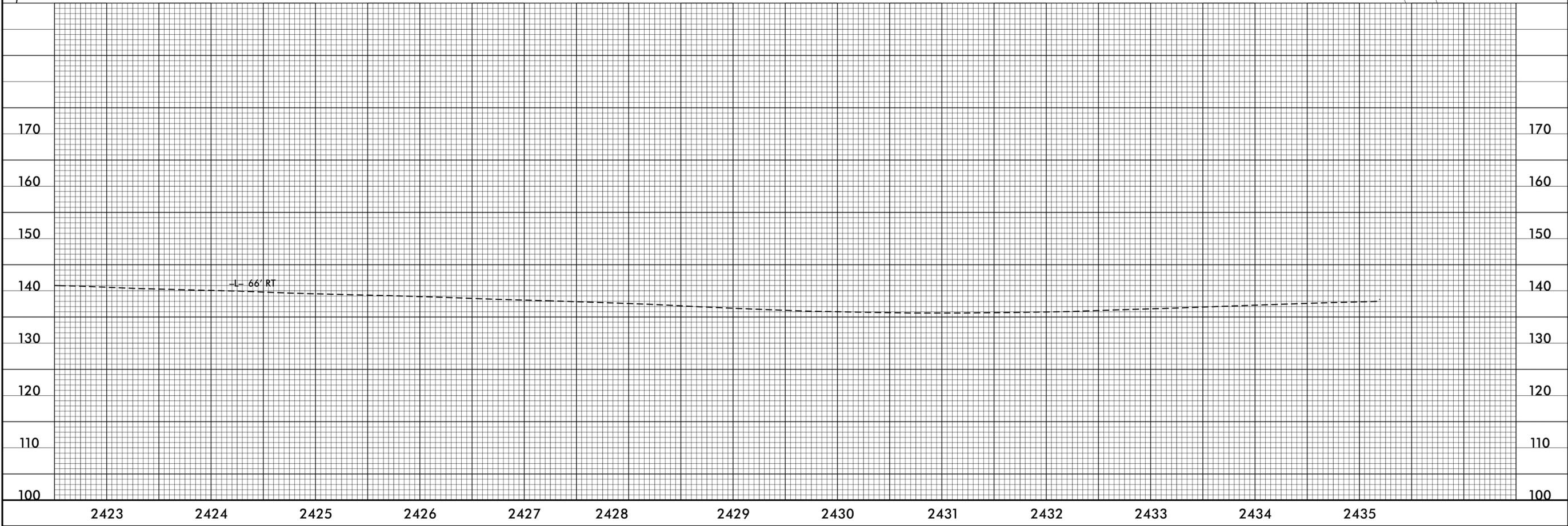
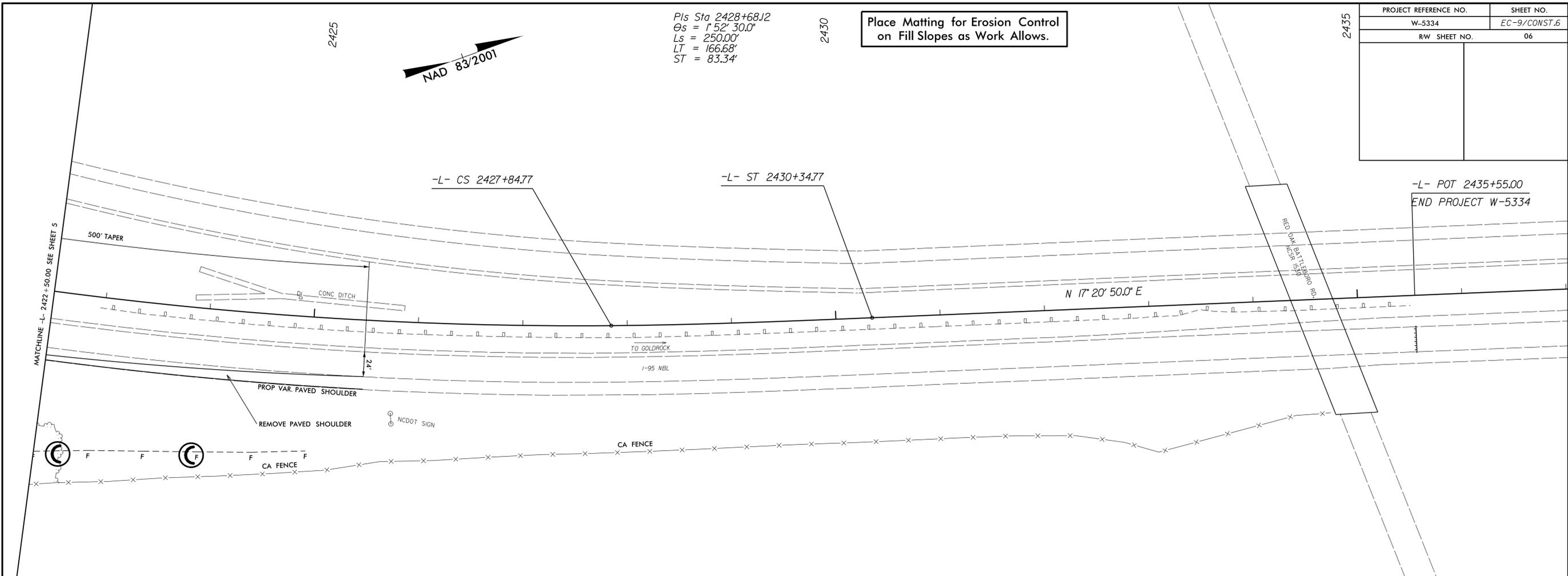
PI Sta 2416+41.97  
 $\Delta = 35^\circ 27' 40.0''$  (LT)  
 $D = 1^\circ 30' 00.0''$   
 $L = 2,364.07'$   
 $T = 1,221.27'$   
 $R = 3,819.72'$



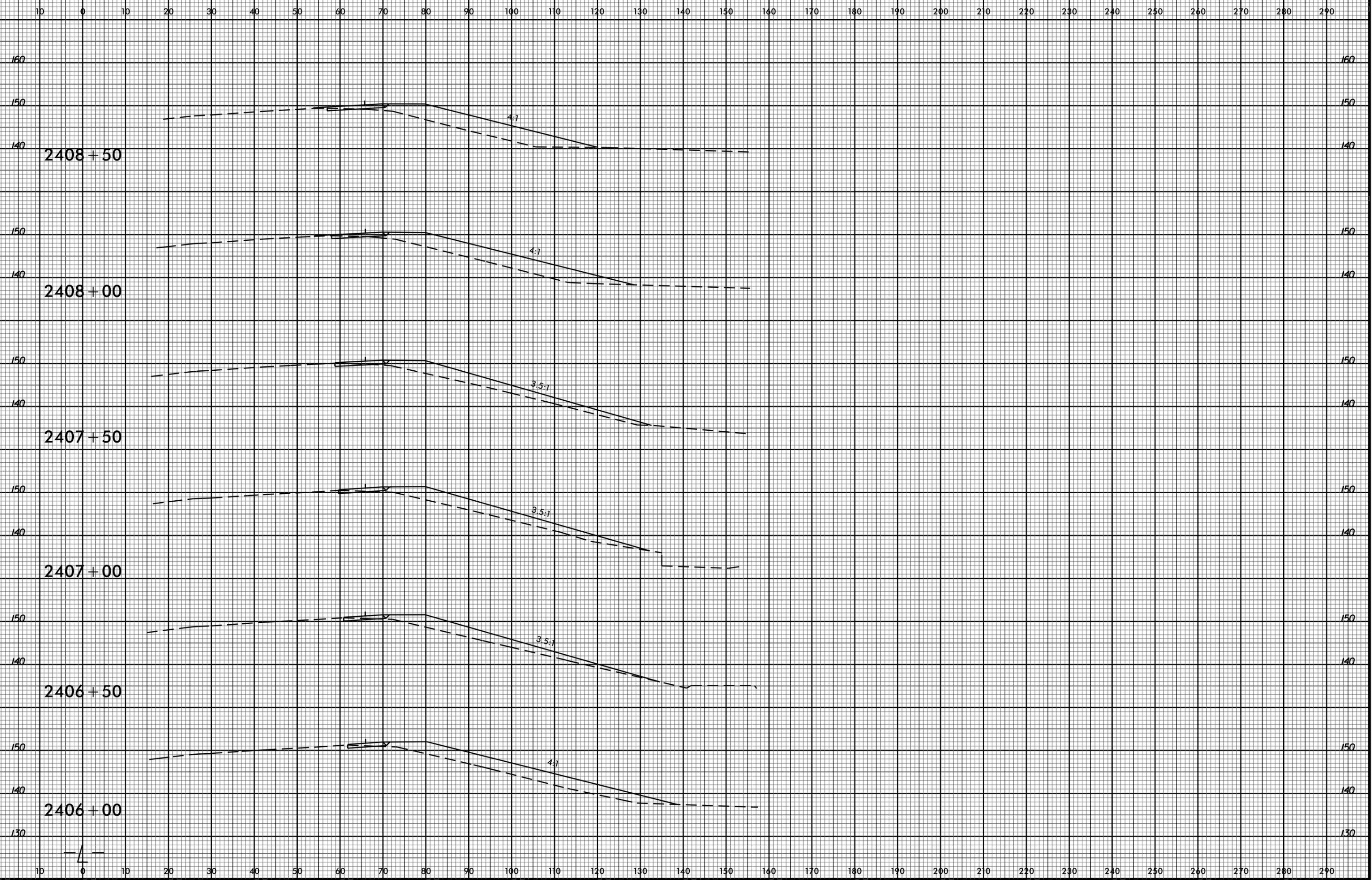
PROJECT REFERENCE NO.	SHEET NO.
W-5334	EC-9/CONST.6
RW SHEET NO.	06

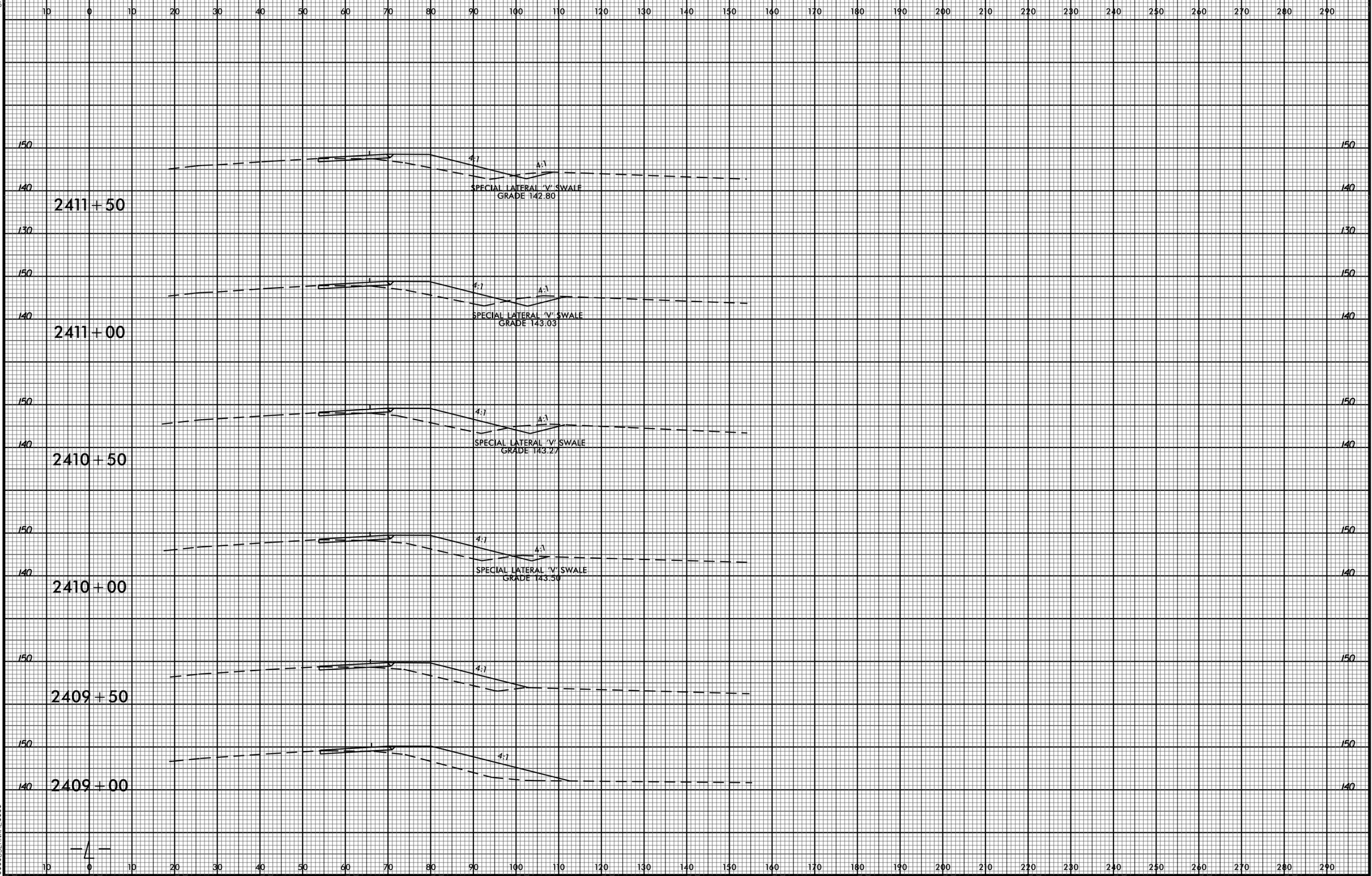
Pls Sta 2428+68.12  
 $\theta_s = 152^\circ 30' 0''$   
 $L_s = 250.00'$   
 $LT = 166.68'$   
 $ST = 83.34'$

Place Matting for Erosion Control  
 on Fill Slopes as Work Allows.









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