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09/08/99

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# HALIFAX COUNTY

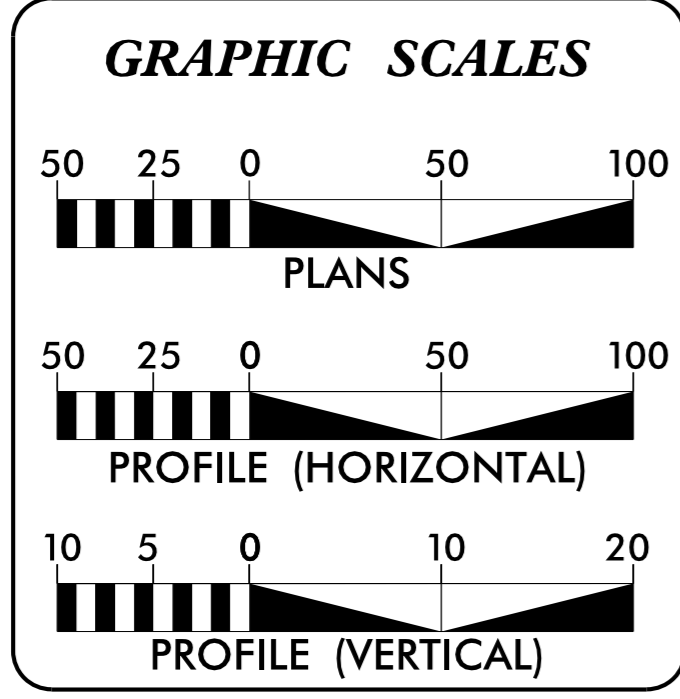
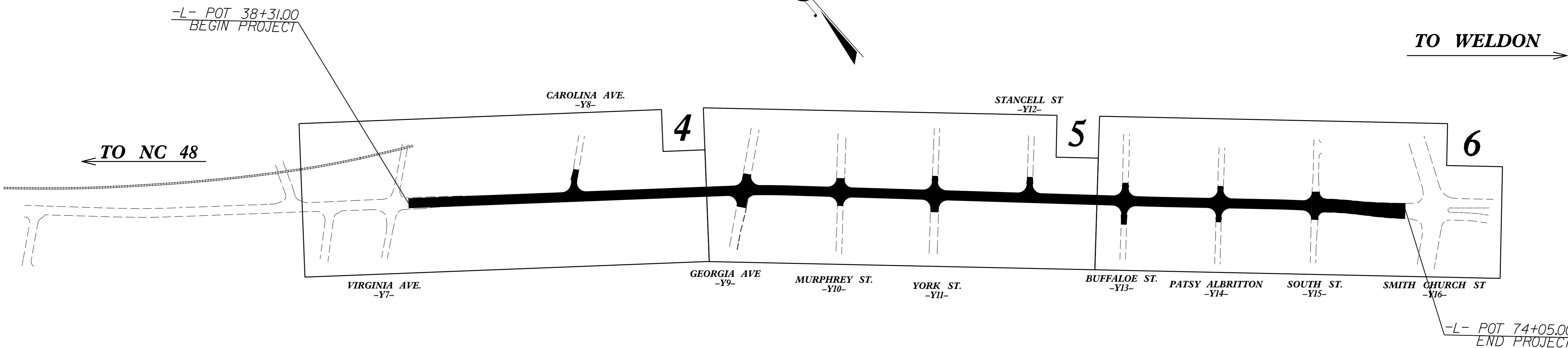
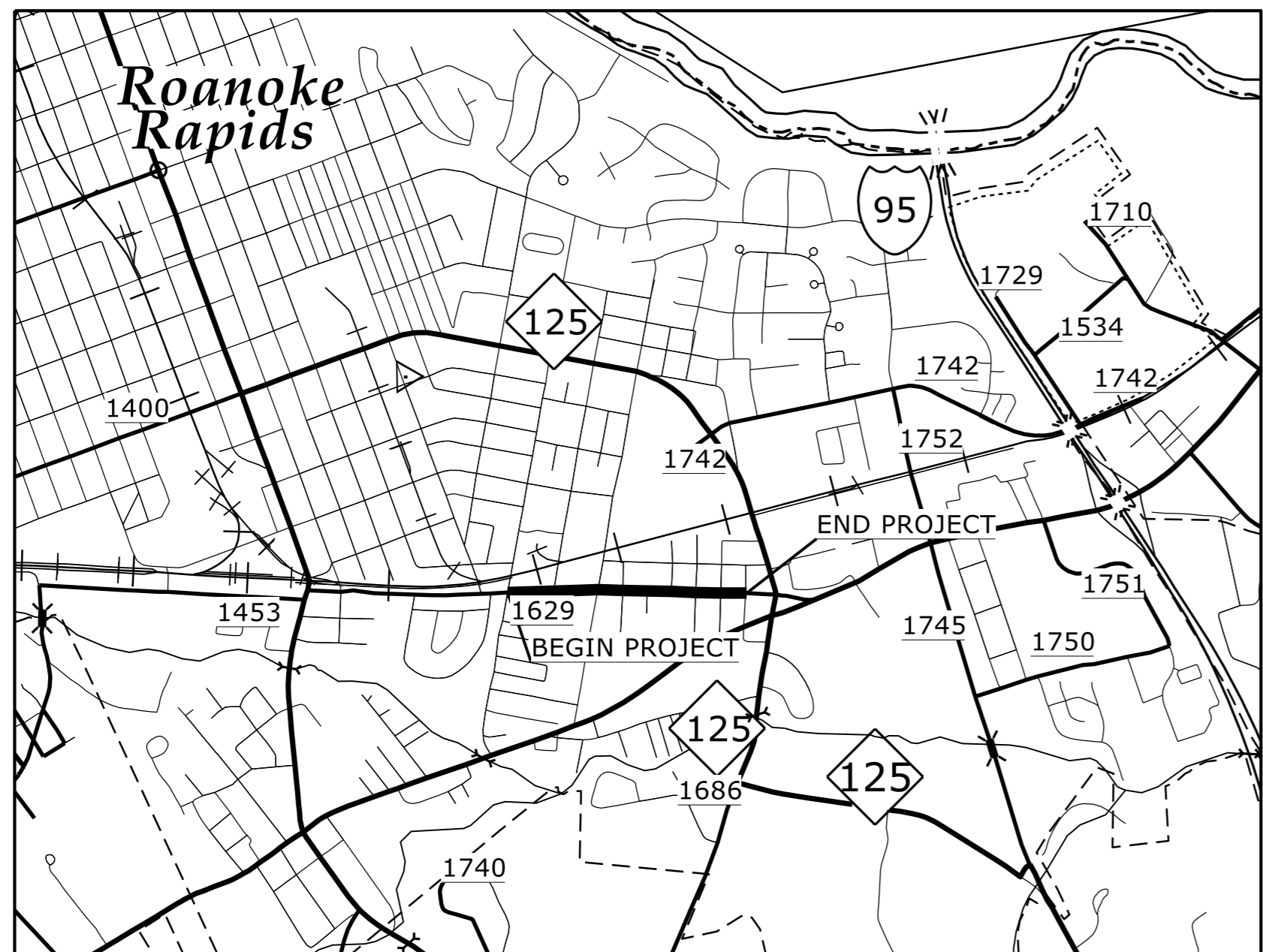
LOCATION: SR-1629 FROM VIRGINIA AVE. TO SOUTH STREET

TYPE OF WORK: GRADING, DRAINAGE AND PAVING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	37742	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
37742		PE, R/W, UTIL.	
37742		CONST	

TIP PROJECT: 37742

CONTRACT: DD00231



**DESIGN DATA**

**PROJECT LENGTH**

LENGTH ROADWAY PROJECT 37742 = 0.677 MILES  
TOTAL LENGTH PROJECT 37742 = 0.677 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:** \_\_\_\_\_

**LETTING DATE:** OCTOBER 10, 2017

**RONNIE KEETER, PE**  
PROJECT ENGINEER

**FRANZ ENDERS, PE**  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

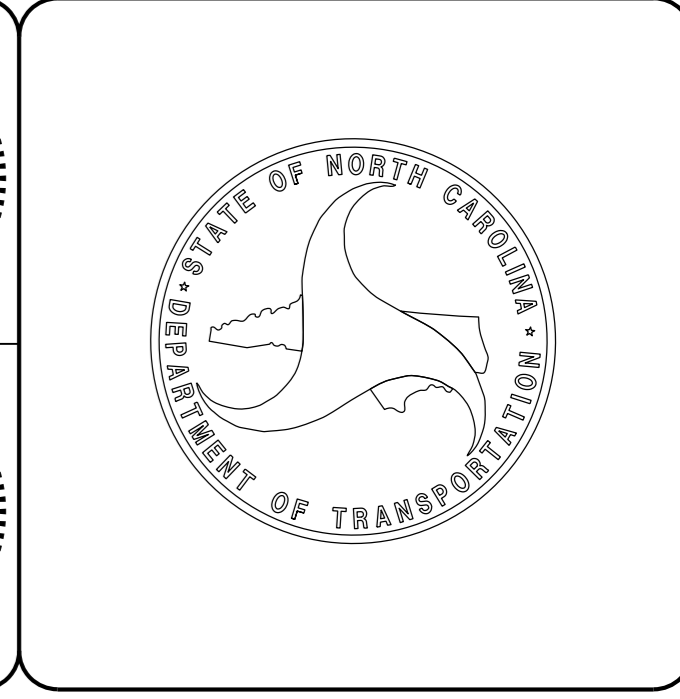
9/7/2017

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**ROADWAY DESIGN ENGINEER**

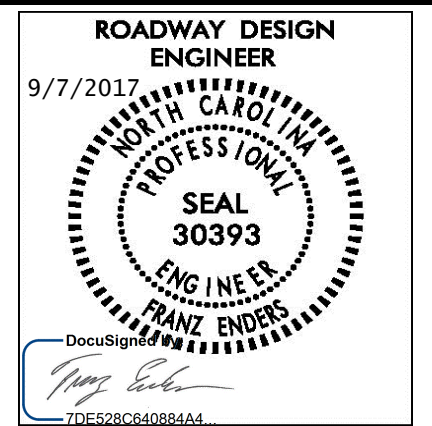
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# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS



SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	ROADWAY SUMMARIES
3D-1 THRU 3D-5	DRAINAGE SUMMARIES
4 THRU 6	PLAN PROFILE SHEETS
PM-1 THRU PM-5	PAVEMENT MARKING PLANS
EC-1 THRU EC-9	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-9	SIGNING PLANS
X-1A	CROSS-SECTION SUMMARY
X-1 THRU X-11	CROSS-SECTIONS

**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
<b>DIVISION 2 - EARTHWORK</b>	
200.03	METHOD OF CLEARING - METHOD III
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
225.04	METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT
225.06	METHOD OF GRADING SIGHT DISTANCE AT INTERSECTIONS
<b>DIVISION 3 - PIPE CULVERTS</b>	
300.01	METHOD OF PIPE INSTALLATION
310.10	DRIVEWAY PIPE CONSTRUCTION
<b>DIVISION 5 - SUBGRADE, BASES AND SHOULDERS</b>	
560.01	METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED CURVE - METHOD I
<b>DIVISION 6 - ASPHALT BASES AND PAVEMENTS</b>	
654.01	PAVEMENT REPAIRS
<b>DIVISION 8 - INCIDENTALS</b>	
840.00	CONCRETE BASE PAD FOR DRAINAGE STRUCTURES
840.01	BRICK CATCH BASIN - 12" THRU 54" PIPE
840.02	CONCRETE CATCH BASIN - 12" THRU 54" PIPE
840.03	FRAME, GRATES AND HOOD - FOR USE ON STANDARD CATCH BASIN
840.14	CONCRETE DROP INLET - 12" THRU 30" PIPE
840.15	BRICK DROP INLET - 12" THRU 30" PIPE
840.16	DROP INLET FRAME AND GRATES - FOR USE WITH STD. DWG 840.14 AND 840.15
840.18	CONCRETE GRATED DROP INLET TYPE 'B' - 12" THRU 36" PIPE
840.27	BRICK GRATED DROP INLET TYPE 'B' - 12" THRU 36" PIPE
840.29	FRAMES AND NARROW SLOT FLAT GRATES
840.31	CONCRETE JUNCTION BOX - 12" THRU 66" PIPE
840.32	BRICK JUNCTION BOX - 12" THRU 66" PIPE
840.35	TRAFFIC BEARING GRATED DROP INLET - FOR CAST IRON DOUBLE FRAME AND GRATES
840.54	MANHOLE FRAME AND COVER
840.66	DRAINAGE STRUCTURE STEPS
840.71	CONCRETE AND BRICK PIPE PLUG
840.72	PIPE COLLAR
846.01	CONCRETE CURB, GUTTER AND CURB & GUTTER
846.02	DROP INLET INSTALLATION IN EXPRESSWAY GUTTER
848.01	CONCRETE SIDEWALK
848.02	DRIVEWAY TURNOUT - RADIUS TYPE
848.04	STREET TURNOUT
848.05	CURB RAMP - PROPOSED CURB & GUTTER
850.01	CONCRETE PAVED DITCHES
876.01	RIP RAP IN CHANNELS
876.02	GUIDE FOR RIP RAP AT PIPE OUTLETS

**GENERAL NOTES: 2012 SPECIFICATIONS**

**GRADE LINE:**  
**GRADING AND SURFACING:**  
 THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

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

**SUPERELEVATION:**  
 ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04. USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

**SHOULDER CONSTRUCTION:**  
 ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

**SIDE ROADS:**  
 THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

**DRIVEWAYS:**  
 DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

**STREET TURNOUT:**  
 STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

**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.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

**RIGHT-OF-WAY MARKERS:**  
 ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

**CURB RAMPS**  
 CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.  
 CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05 AND/OR 848.06.

# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

## CONVENTIONAL PLAN SHEET SYMBOLS

*Note: Not to Scale*      \*S.U.E. = *Subsurface Utility Engineering*

04/05/15

### BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Property Corner	----->
Property Monument	□ ECM
Parcel/Sequence Number	⑫③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- NLB
Proposed Wetland Boundary	----- NLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
Existing Historic Property Boundary	----- HPB
Known Contamination Area: Soil	☠
Potential Contamination Area: Soil	☠
Known Contamination Area: Water	☠
Potential Contamination Area: Water	☠
Contaminated Site: Known or Potential	☠ ?

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	□

### HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	----- JS
Buffer Zone 1	----- BZ 1
Buffer Zone 2	----- BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

### RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ CSX TRANSPORTATION MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

### RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	----- RW
Proposed Right of Way Line with Iron Pin and Cap Marker	----- RW
Proposed Right of Way Line with Concrete or Granite R/W Marker	----- RW
Proposed Control of Access Line with Concrete CA Marker	----- CA
Existing Control of Access	----- CA
Proposed Control of Access	----- CA
Existing Easement Line	----- E
Proposed Temporary Construction Easement	----- E
Proposed Temporary Drainage Easement	----- TDE
Proposed Permanent Drainage Easement	----- PDE
Proposed Permanent Drainage / Utility Easement	----- DUE
Proposed Permanent Utility Easement	----- PUE
Proposed Temporary Utility Easement	----- TUE
Proposed Aerial Utility Easement	----- AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	----- CR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----

### VEGETATION:

Single Tree	☼
Single Shrub	☼
Hedge	-----
Woods Line	-----

Orchard	☼ ☼ ☼ ☼
Vineyard	□ Vineyard

### EXISTING STRUCTURES:

MAJOR: Bridge, Tunnel or Box Culvert	----- CONC
Bridge Wing Wall, Head Wall and End Wall	----- CONC WW

### MINOR:

Head and End Wall	----- CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊙
Storm Sewer	----- S

### 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	●
U/G Power Line LOS B (S.U.E.*)	----- P
U/G Power Line LOS C (S.U.E.*)	----- P
U/G Power Line LOS D (S.U.E.*)	----- P

### TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊙
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	○
U/G Telephone Cable LOS B (S.U.E.*)	----- T
U/G Telephone Cable LOS C (S.U.E.*)	----- T
U/G Telephone Cable LOS D (S.U.E.*)	----- T
U/G Telephone Conduit LOS B (S.U.E.*)	----- TC
U/G Telephone Conduit LOS C (S.U.E.*)	----- TC
U/G Telephone Conduit LOS D (S.U.E.*)	----- TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS C (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS D (S.U.E.*)	----- T FO

### WATER:

Water Manhole	⊙
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	----- W
U/G Water Line LOS C (S.U.E.*)	----- W
U/G Water Line LOS D (S.U.E.*)	----- W
Above Ground Water Line	----- A/G Water

### TV:

TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	○
U/G TV Cable LOS B (S.U.E.*)	----- TV
U/G TV Cable LOS C (S.U.E.*)	----- TV
U/G TV Cable LOS D (S.U.E.*)	----- TV
U/G Fiber Optic Cable LOS B (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS C (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS D (S.U.E.*)	----- TV FO

### GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	----- G
U/G Gas Line LOS C (S.U.E.*)	----- G
U/G Gas Line LOS D (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

### SANITARY SEWER:

Sanitary Sewer Manhole	⊙
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS
SS Forced Main Line LOS D (S.U.E.*)	----- FSS

### MISCELLANEOUS:

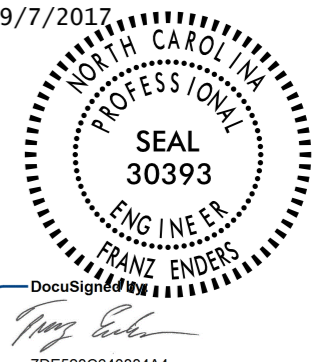
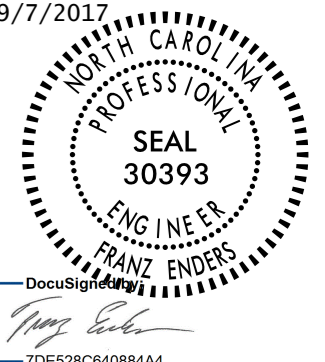
Utility Pole	●
Utility Pole with Base	⊠
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	----- ?U/L
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊠ UST
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

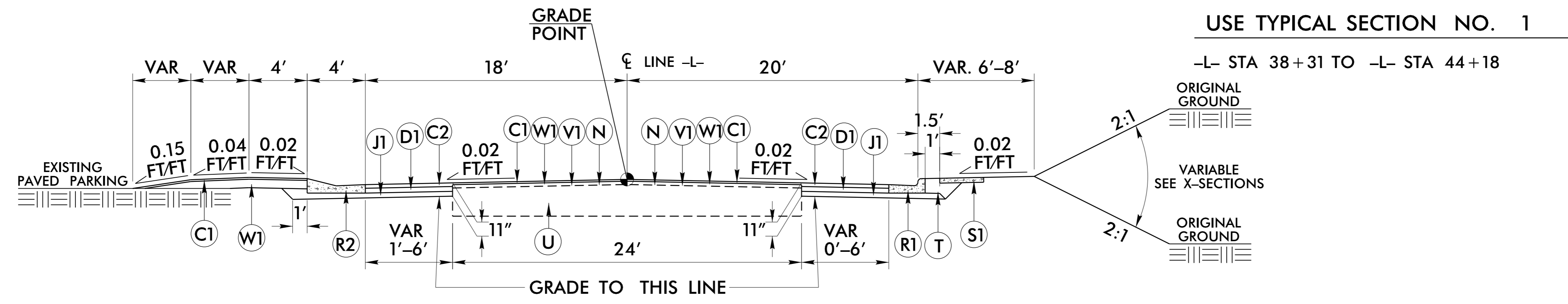
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# PAVEMENT SCHEDULE

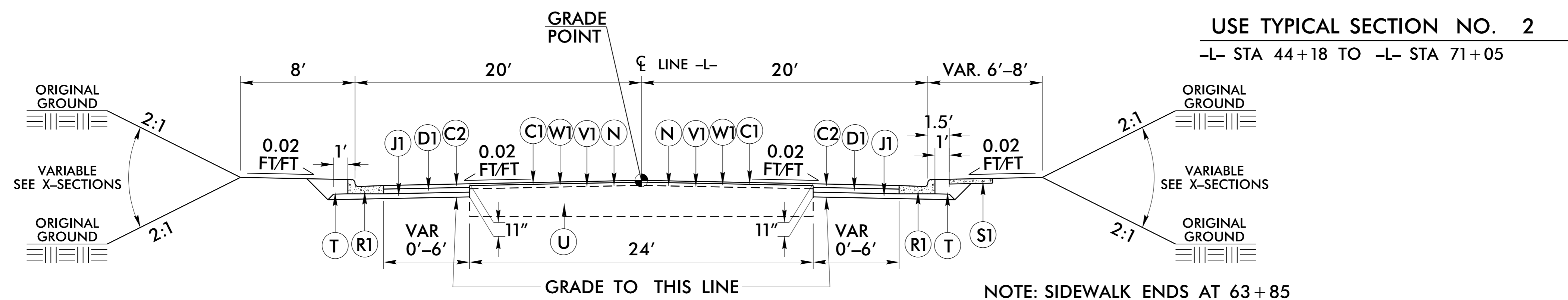
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.	E1	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5.5" IN DEPTH.	S1	4" CONCRETE SIDEWALK.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD. IN EACH OF TWO LAYERS.	J1	PROP. 4" AGGREGATE BASE COURSE.	T	EARTH MATERIAL.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YARD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2" DEPTH.	N	PAVEMENT INTERLAYER	U	EXISTING PAVEMENT.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.	R1	2'-6" CONCRETE CURB AND GUTTER	V1	MILLING BITUMINOUS PAVEMENT. 1.5" DEPTH.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.	R2	EXPRESSWAY GUTTER	W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

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

PROJECT REFERENCE NO. <b>37742</b>	SHEET NO. <b>2A-1</b>
ROADWAY DESIGN ENGINEER 9/7/2017 	PAVEMENT DESIGN ENGINEER 9/7/2017 
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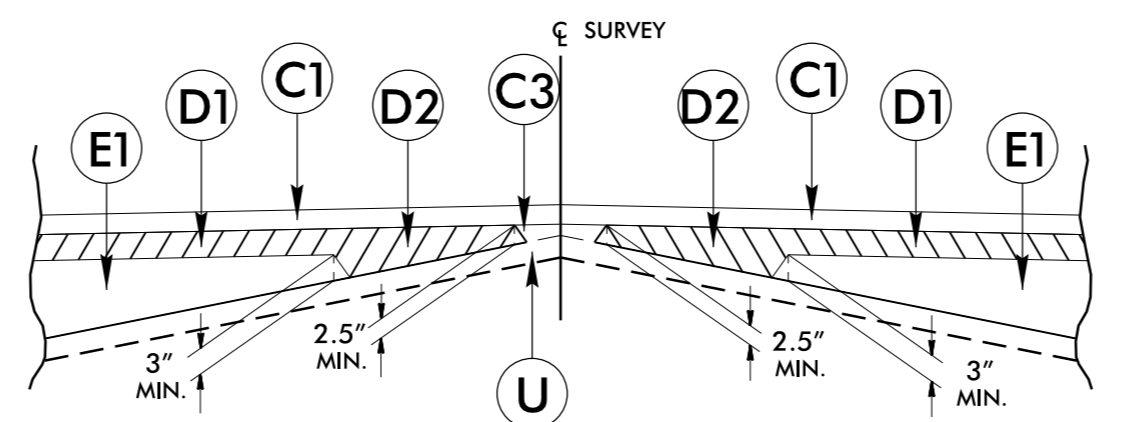


**TYPICAL SECTION NO. 1**



**TYPICAL SECTION NO. 2**

NOTE: SIDEWALK ENDS AT 63+85



**DETAIL SHOWING METHOD OF WEDGING (W1)**

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COMPUTED BY:           D.R.E.           DATE:           9/5/2017            
 CHECKED BY:                            DATE:                           

**DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA**

<b>PROJECT REFERENCE NO.</b>	<b>SHEET NO.</b>
37742	3B-1

**PARCEL INDEX SHEET**

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
26	4	JOSEPH R. WILLIAMS
27	4	TELPAGE INC.
28	4	HOWARD K.BREWER, TIMOTHY M. BREWER & ERIC E. BREWER
29	4	JOHN M. & SHIRLEY H. ALLEN
30	4	ALVIN W. LILES
31	4	FRANKLIN FAULCON
32	4	EDNA M. FENNER
33	4	ALVIN W. LILES
34	4	JOHNNY H. III & JUDY N. VAUGHAN
36	4	DAVID A. BELL
36	4	DIVERSIFIED PRODUCTS & SERVICES CO INC
38	4	DONALD R. & LISA M. LYNCH
39	4	JIMMY D. & RHONDA D. BAUGHAM
40	4	DONALD R. & LISA M. LYNCH
41	4	S & R PROPERTIES, INC
42	4	CHARLES E. TANT
43	4	
44	4	JOHN M. & DOROTHY H. RIGHTMYER
45	4&5	WILLIAM K. WHEELER & ANTHONY TREZZA
46	5	CHRISTOPHER DAVIS & BOB LYONS
47	5	TONYA J. CREW
48	5	UNKNOWN
49	5	HARRY & JEANNE C. HARDING
50	5	JAMES T. JR. & DEBRA J. TURNER
51	5	CAROLINA TELEPHONE & TELEGRAPH
52	4	CHARLES E. TANT
53	4&5	CHARLES E. TANT
54	5	GLORIA B. GRIFFIN
55	4	CLORIA B. GRIFFIN
56	5	STONEWALL GROUP INC.
57	5	McCULLEN & WARREN INC.
58	5	W.E. MURPHREY III
59	5	ROANOKE ANIMAL HOSPITAL
60	5&6	WILLIS E. III & YVONNE B. MURPHREY
61	6	EDWARD H. & MICHAEL H. VINCENT
62	6	GEORGE H. & FRANCES R. VINCENT
63	6	ROBERT F. JR. & PATRICIA S. BROWN
64	6	MNP LLC
65	6	ROBERTO E. ROSSI
66	6	DH ROANOKE LLC
67	5	FREDERICK L. & ROSA LEE HAMMACK
68	5	WILLIAM C. JONES III
69	5	JON A. BAKER
70	5&6	NANCY B. ELIAS
71	5&6	RHUMEL D. WILLIAMS
72	6	HALIFAX EMERGENCY MEDICAL SERVICES
73	6	FREDRICK L. & BRUCE W. HAMMACK
74	6	CHAIR & EQUIPMENT RENTALS INC
75	6	KEITH E MOODY
76	6	LEONARD R. & DOROTHY G. HOCKADAY
77	6	HAROLD E. & FRANCES M. CARAWAN
78	6	ZP No. 42 LLC

**SUMMARY OF EARTHWORK**

Volumes in Cubic Yards

STATION TO STATION				Uncl. Excav.	Undercut	Embank +%	Borrow	Waste
L	38+00.00	TO	54+50.00	393		2238	2042	197
L	54+50.00	TO	71+00.00	253		3047	2921	127
			<b>SUBTOTAL</b>	<b>646</b>		<b>5285</b>	<b>4963</b>	<b>324</b>
TOTAL				646		5285	4963	324
WASTE TO REPLACE BORROW							-324	-324
PROJECT TOTAL				646		5285	4639	
ESTIMATE TO REPLACE TOPSOIL ON BORROW PIT							248	
GRAND TOTAL				646		5285	4887	
SAY				700			4900	
ESTIMATE UNDERCUT					500			









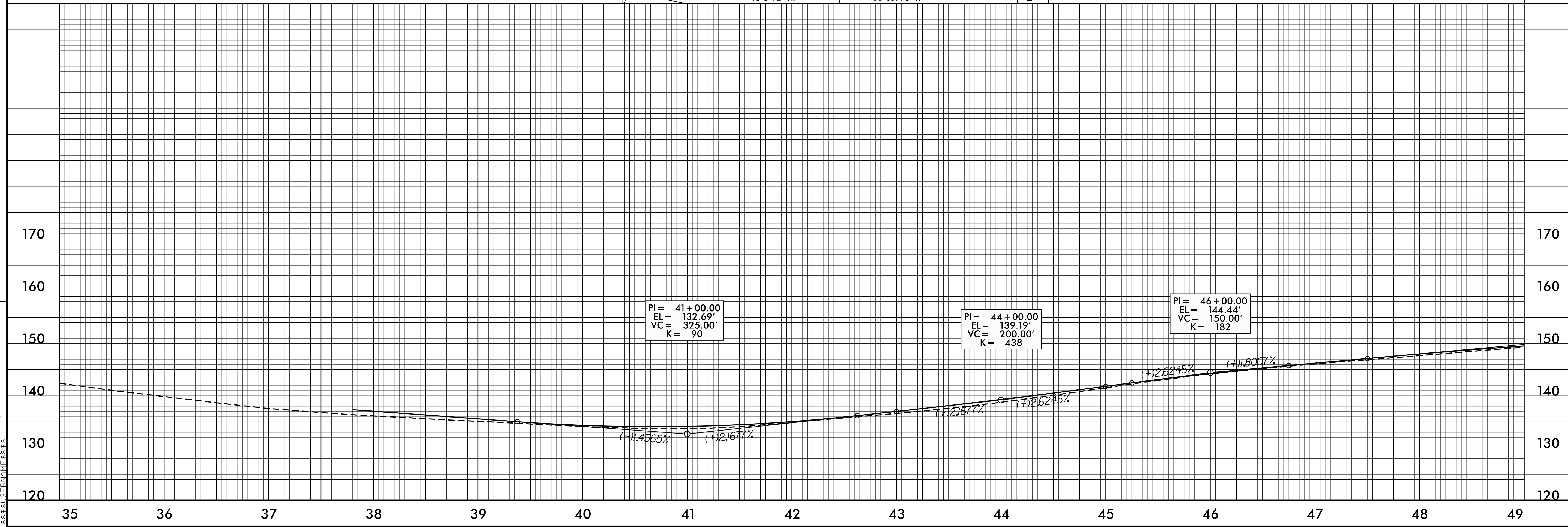
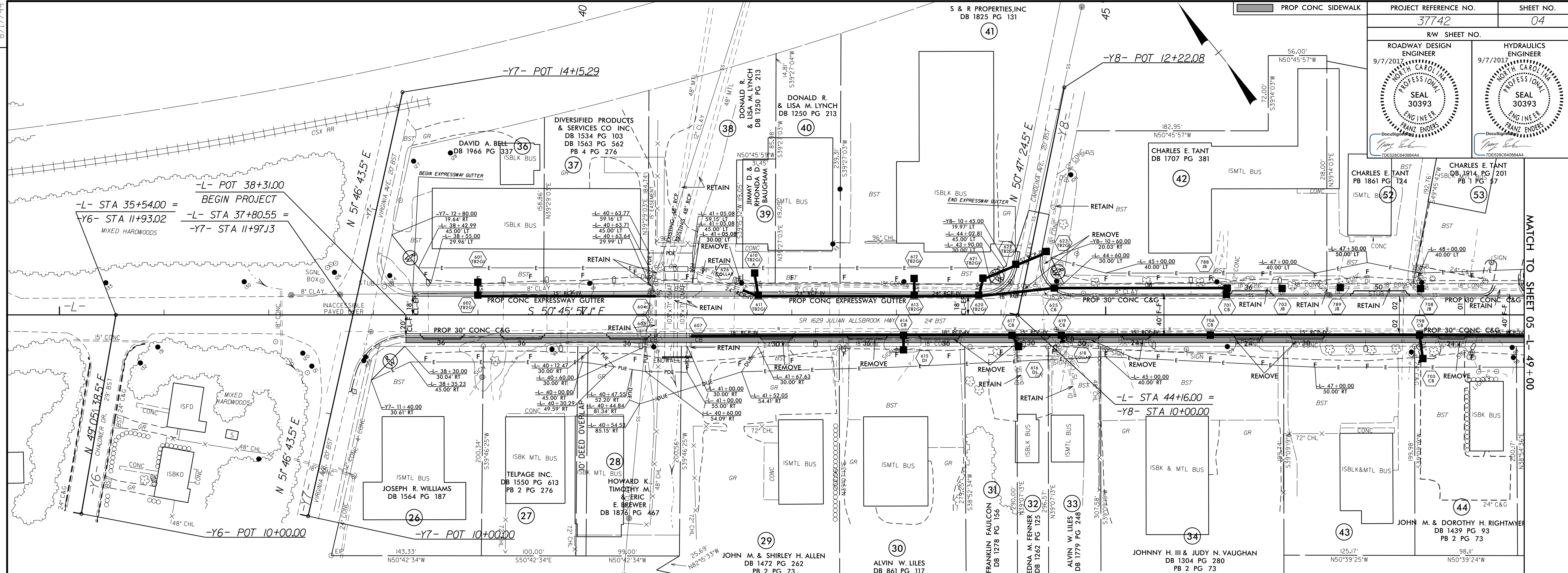




8/17/99

PROJECT REFERENCE NO. 37742	SHEET NO. 04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 9/7/2017 SEAL 30393 FRANZ ENDERS	HYDRAULICS ENGINEER 9/7/2017 SEAL 30393 FRANZ ENDERS

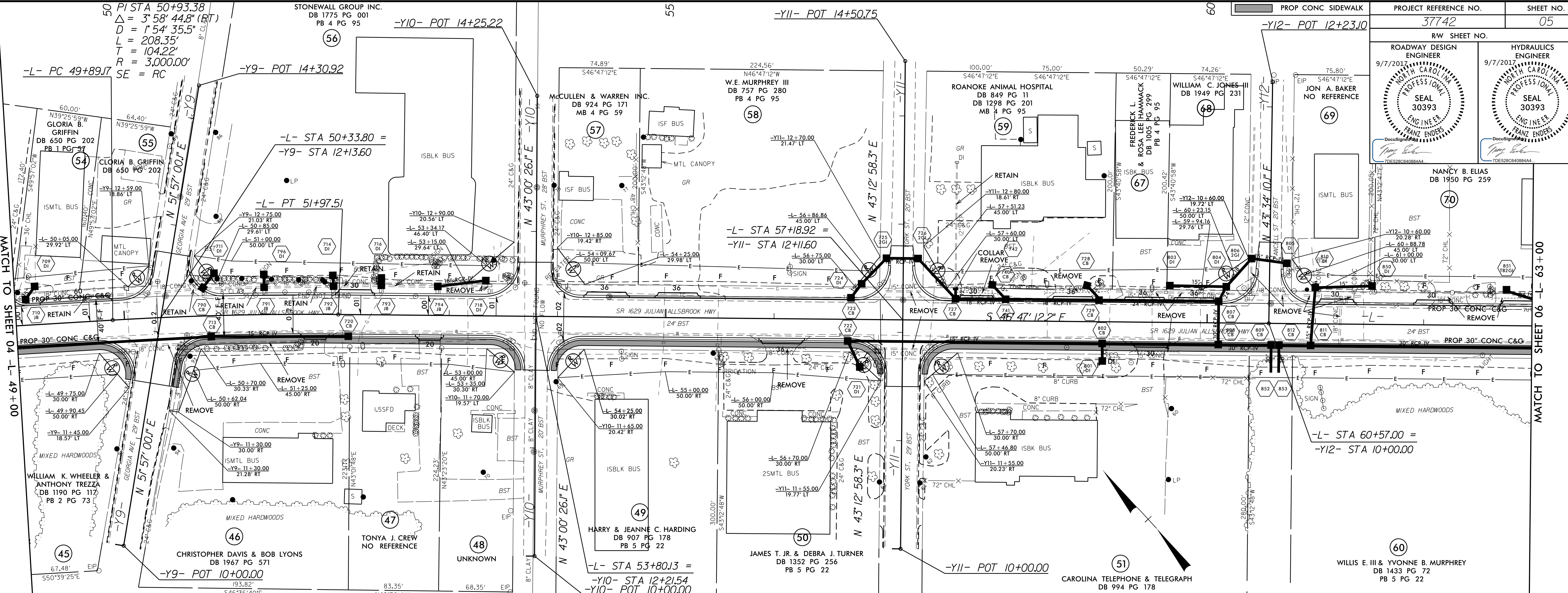
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MATCH TO SHEET 05-1-49+00

8/17/99



PROJECT REFERENCE NO.	37742	SHEET NO.	05
RW SHEET NO.		05	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	9/7/2017	
SEAL 30393	SEAL 30393	FRANZ ENDERS	

REVISIONS

170  
160  
150  
140  
130  
120

170  
160  
150  
140  
130  
120

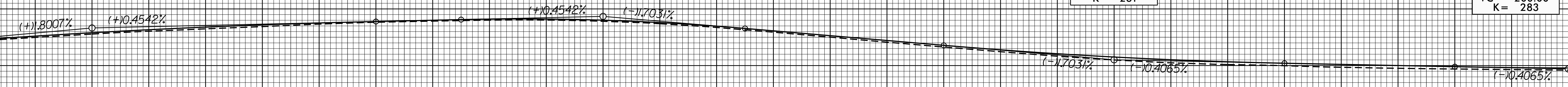
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

PI = 50+00.00  
EL = 151.64'  
VC = 500.00'  
K = 371

PI = 54+50.00  
EL = 153.68'  
VC = 250.00'  
K = 116

PI = 59+00.00  
EL = 146.02'  
VC = 300.00'  
K = 231

PI = 63+00.00  
EL = 144.39'  
VC = 200.00'  
K = 283



9/7/2017  
3:58 PM  
S:\37742\DWG\13730.dwg

8/17/99

-Y13- POT 14+45.89

PI STA 65+15.83  
 $\Delta = 0' 32' 48.8''$  (LT)  
 $D = 0' 34' 22.6''$   
 $L = 95.45'$   
 $T = 47.73'$   
 $R = 10,000.00'$   
 $SE = NC$

PI STA 70+15.30  
 $\Delta = 2' 50' 53.0''$  (RT)  
 $D = 1' 54' 35.5''$   
 $L = 149.12'$   
 $T = 74.58'$   
 $R = 3,000.00'$   
 $SE = RC$

PI STA 71+58.17  
 $\Delta = 2' 36' 32.4''$  (LT)  
 $D = 1' 54' 35.6''$   
 $L = 136.61'$   
 $T = 68.31'$   
 $R = 2,999.97'$

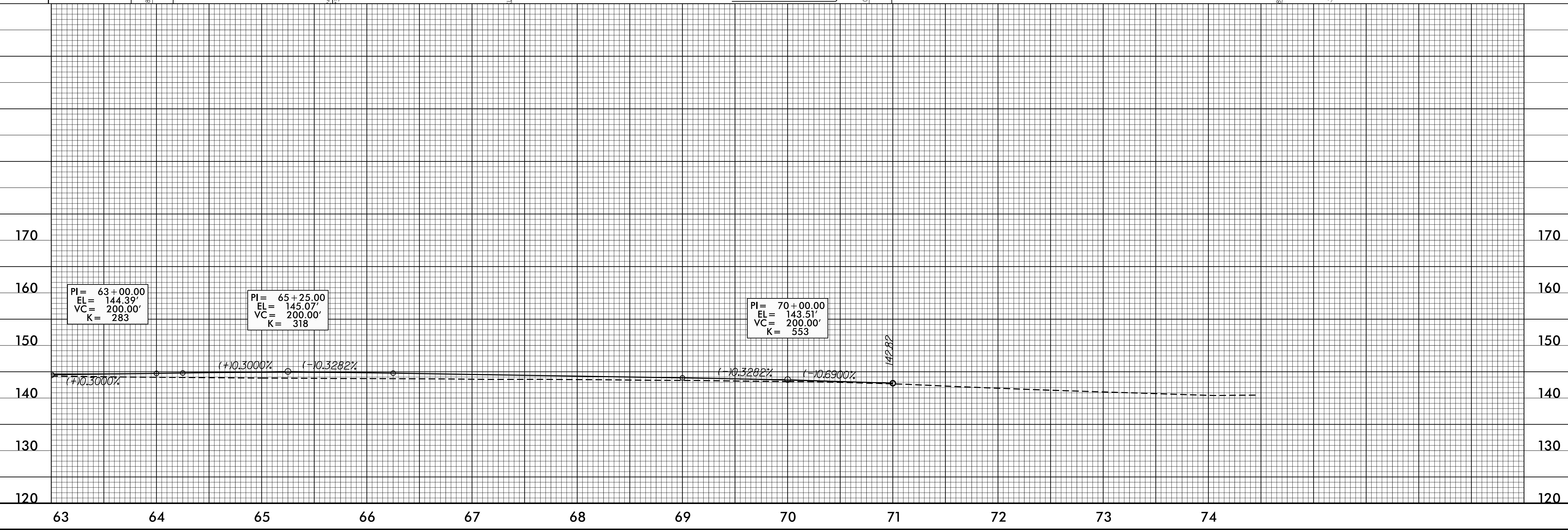
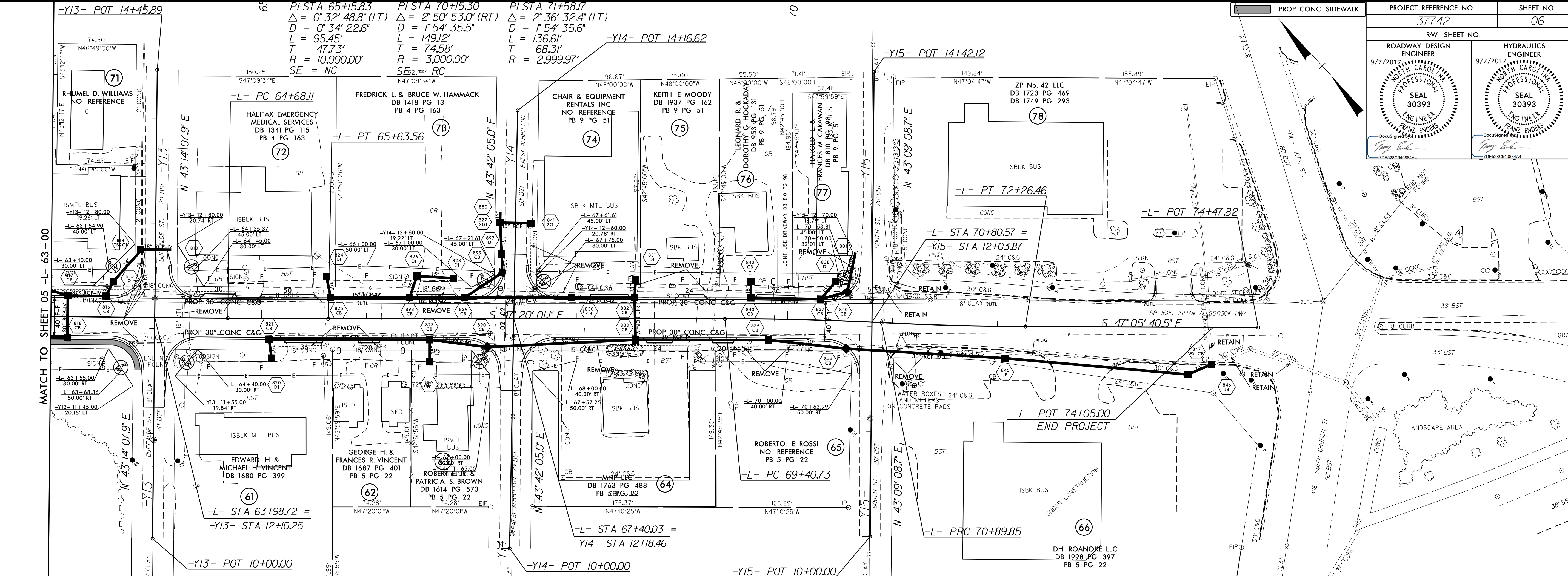
-Y14- POT 14+16.62

-Y15- POT 14+42.12

PROJECT REFERENCE NO. 37742	SHEET NO. 06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 9/7/2017 FRANZ ENDERS SEAL 30393	HYDRAULICS ENGINEER 9/7/2017 FRANZ ENDERS SEAL 30393

MATCH TO SHEET 05 L-63+00

REVISIONS



07-547-2017 13:30  
3:38:51 USER:WAF 6638

**T.I.P.: MA04032R**

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
HALIFAX COUNTY**

**LOCATION: SR 1629 FROM VIRGINIA AVENUE TO  
EAST TENTH STREET**

TIP NO.	SHEET NO.
MA04032R	PMP - 1
APPROVED:	
DATE: JUNE 24, 2013	
SEAL	

**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:

<u>STD. NO.</u>	<u>TITLE</u>
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE

**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       |
|-----------------------------------|---------------|--------------|
| JULIAN ALLSBROOK HWY<br>(SR 1629) | THERMOPLASTIC | SNOWPLOWABLE |
| ALL -Y- LINES                     | THERMOPLASTIC | NONE         |
- D) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- E) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- F) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- J) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF COLD APPLIED PLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS ON ASPHALT OR CONCRETE ROADWAYS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE COLD APPLIED PAY ITEM.

**INDEX**

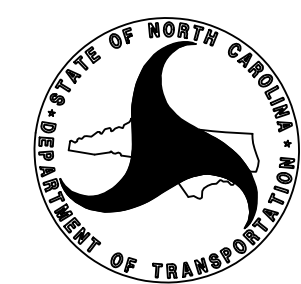
<u>SHEET NO.</u>	<u>DESCRIPTION</u>
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2	CROSSWALK AND STOP BAR PAVEMENT MARKING DETAIL
PMP-3-5	PAVEMENT MARKING DETAIL

**PLAN PREPARED BY: SEPI ENGINEERING & CONSTRUCTION**

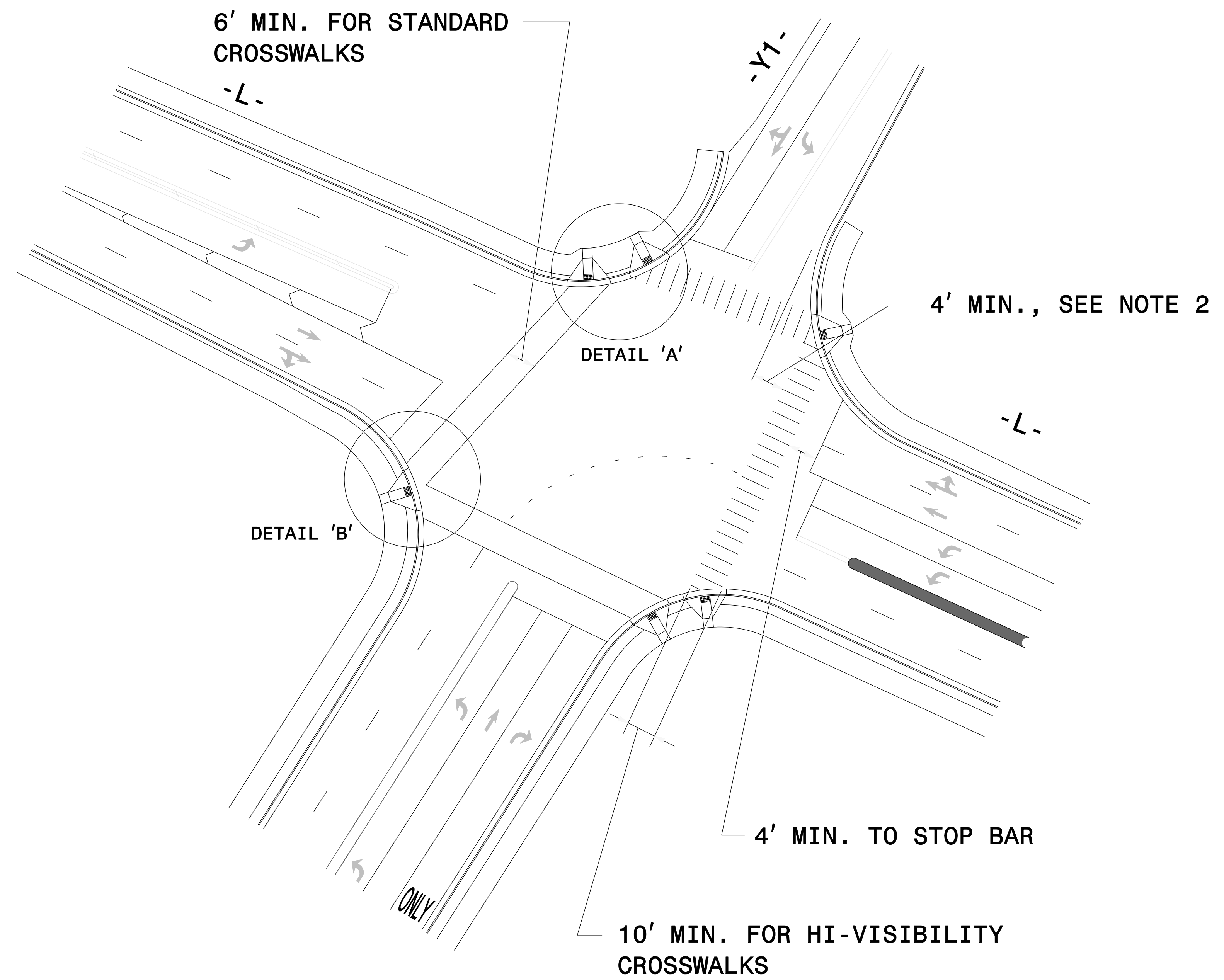
Joseph B. Kopaskie, PE SIGNING & DELINEATION PROJECT ENGINEER  
RICHARD DRAYTON SIGNING & DELINEATION PROJECT DESIGN ENGINEER

**NCDOT CONTACTS:**

AYMAN I. ALQUDWAH, PE SIGNING & DELINEATION REGIONAL ENGINEER  
Mitch Eaton SIGNING & DELINEATION PROJECT DESIGN ENGINEER

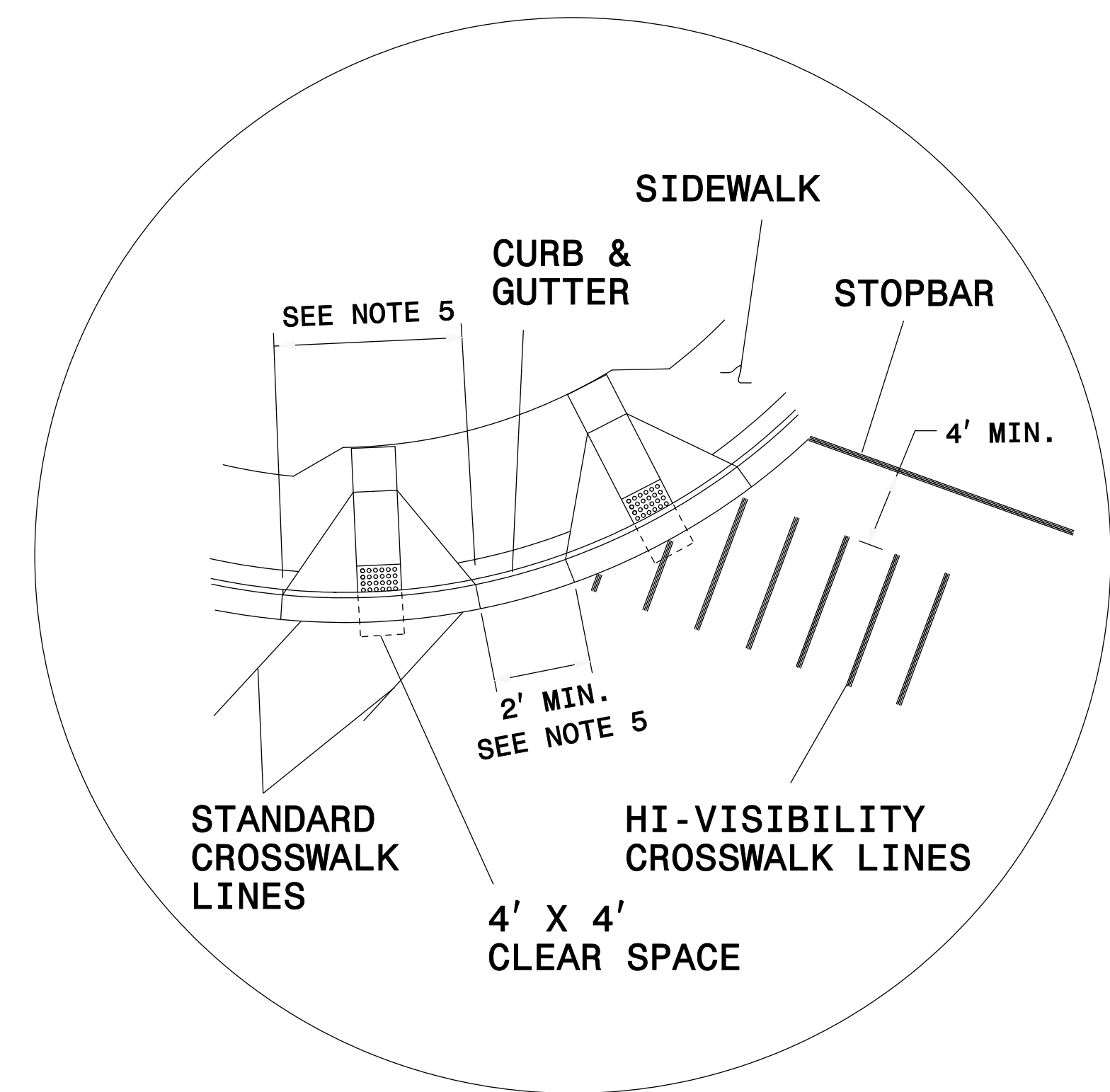


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PLOT TIME: 00:02:14  
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SCALE: 1/8"=1'-0"  
PLOTTER: HP DesignJet T1200

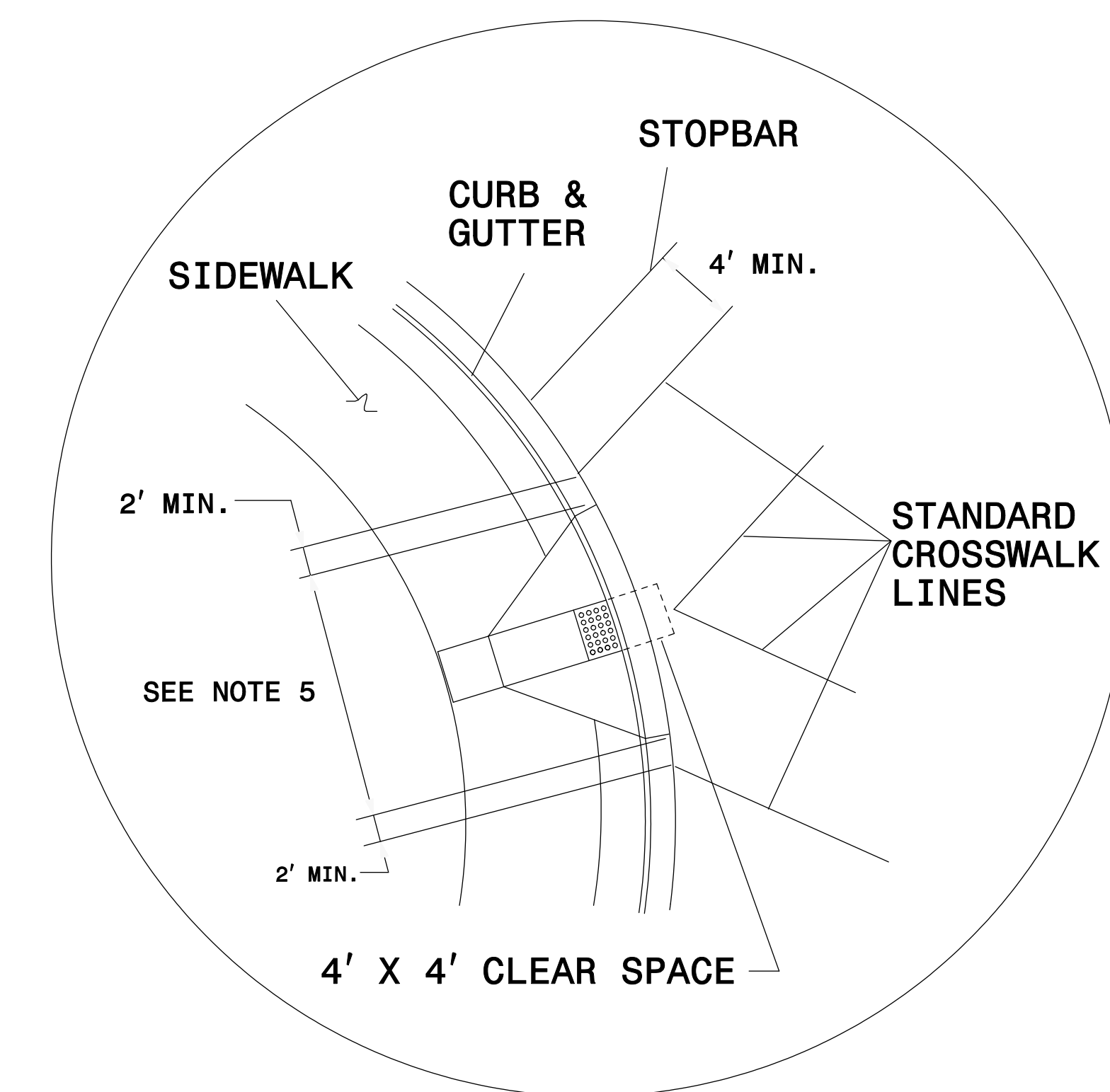


**GUIDANCE DETAIL FOR STANDARD AND HI-VISIBILITY CROSSWALKS AT SIGNALIZED OR STOP SIGN CONTROLLED INTERSECTIONS**

- NOTES:
1. USE DETAILS ABOVE AND THE FOLLOWING NOTES FOR GUIDANCE IN PLACING CROSSWALKS AND STOP BARS NOT STATIONED ON THE DETAIL SHEETS OR WHEN FIELD ADJUSTMENTS REQUIRED MOVING STATIONED MARKINGS AS DIRECTED BY THE ENGINEER. REFER TO NCDOT ROADWAY STANDARD DRAWINGS, MUTCD AND ADA STANDARDS FOR ADDITIONAL GUIDANCE.
  2. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL IS 4' MIN.
  3. BEYOND THE BOTTOM GRADE BRAKE, A CLEAR SPACE OF 4' X 4' MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE CROSSWALK.
  4. SINGLE DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 2 FEET LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING, SEE DETAIL 'B'.
  5. CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST NCDOT ROADWAY STANDARD DRAWINGS.



**DETAIL 'A'- DUAL CURB RAMPS**

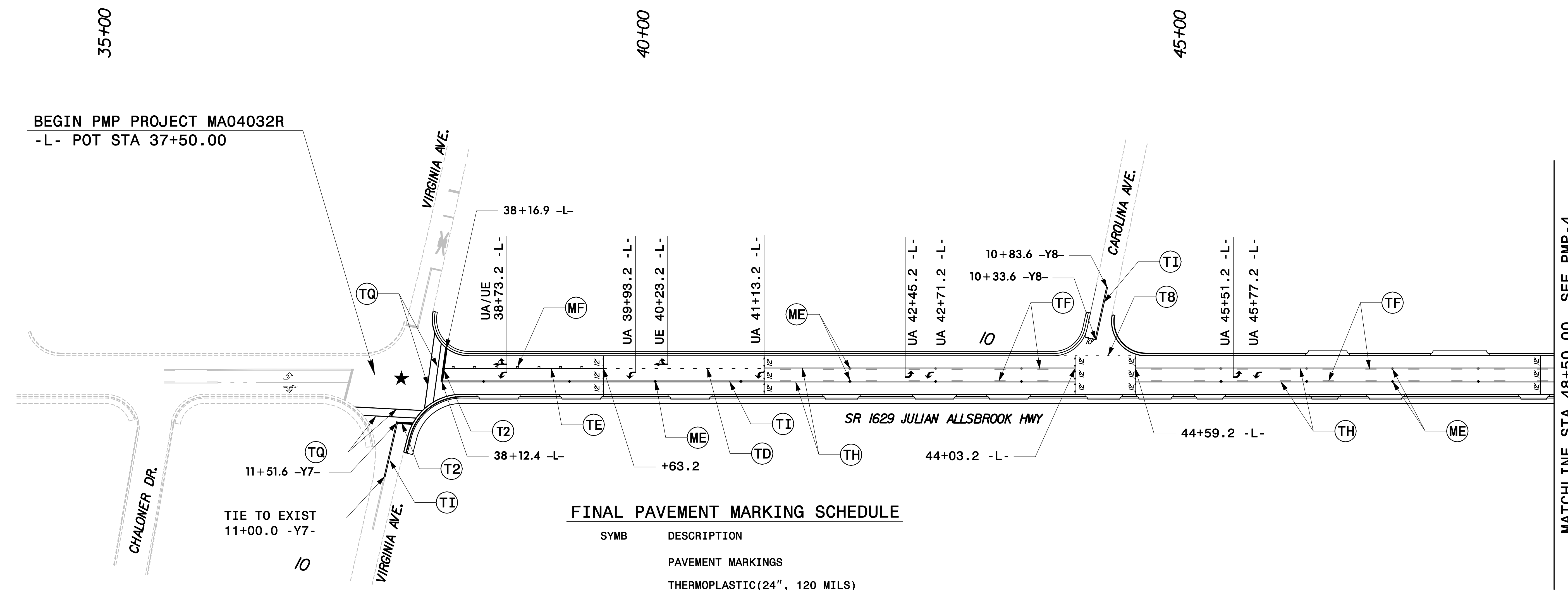
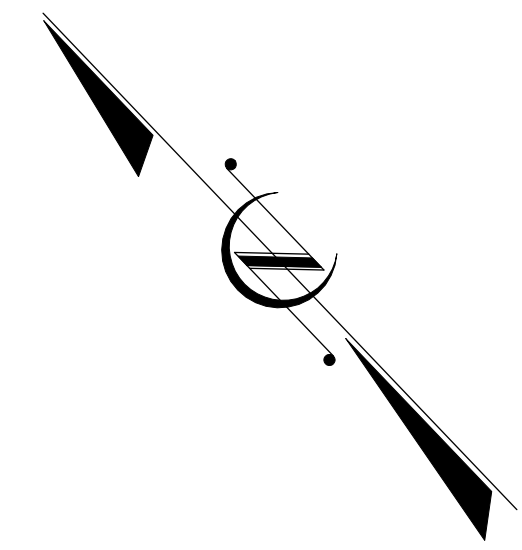


**DETAIL 'B'- SINGLE DIAGONAL CURB RAMP**

**CROSSWALK AND STOP BAR PAVEMENT MARKING DETAIL**

SYSTEM TIME \$\$\$\$\$\$  
 ADDON \$\$\$\$\$\$  
 USER NAME \$\$\$\$\$\$





**FINAL PAVEMENT MARKING SCHEDULE**

SYMB	DESCRIPTION
	<u>PAVEMENT MARKINGS</u>
	THERMOPLASTIC(24", 120 MILS)
T2	WHITE STOPBAR
	THERMOPLASTIC(4", 120 MILS)
T8	2 FT. - 6 FT./SP WHITE MINISKIP
TD	3 FT. - 9 FT./SP WHITE MINISKIP
TE	WHITE SOLID LANE LINE
TF	10 FT. YELLOW SKIP
TH	YELLOW SINGLE CENTER
TI	YELLOW DOUBLE CENTER
	THERMOPLASTIC(8", 120 MILS)
TQ	WHITE CROSSWALK LINE
	THERMOPLASTICPAVEMENT MARKING SYMBOLS (90 MILS)
UA	LEFT TURN ARROW
UE	COMBO RIGHT/STRAIGHT ARROW
	<u>PERMANENT SNOWPLOWABLE PAVEMENT MARKERS</u>
ME	YELLOW & YELLOW
MF	CRYSTAL & RED

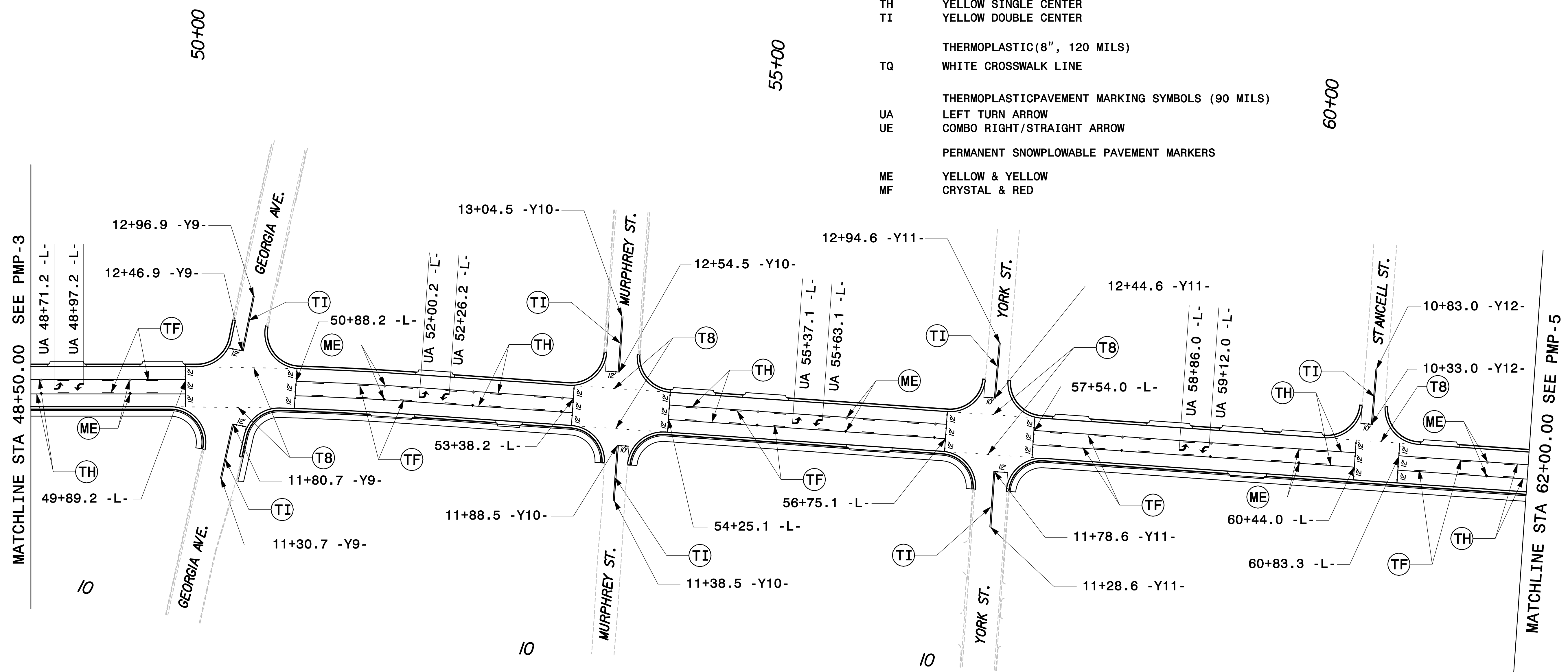
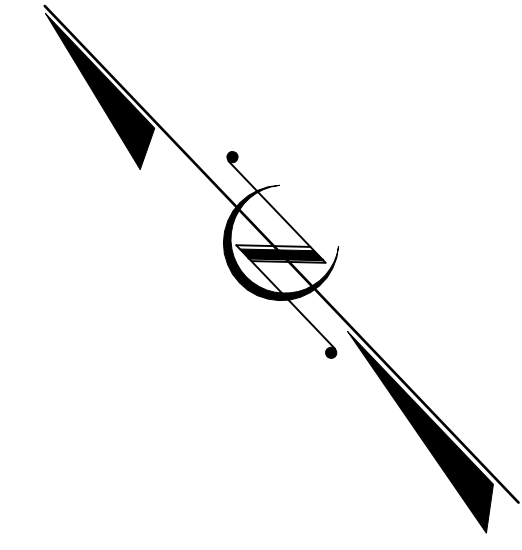
★ DENOTES SIGNALIZED INTERSECTION

**PAVEMENT MARKING DETAIL**

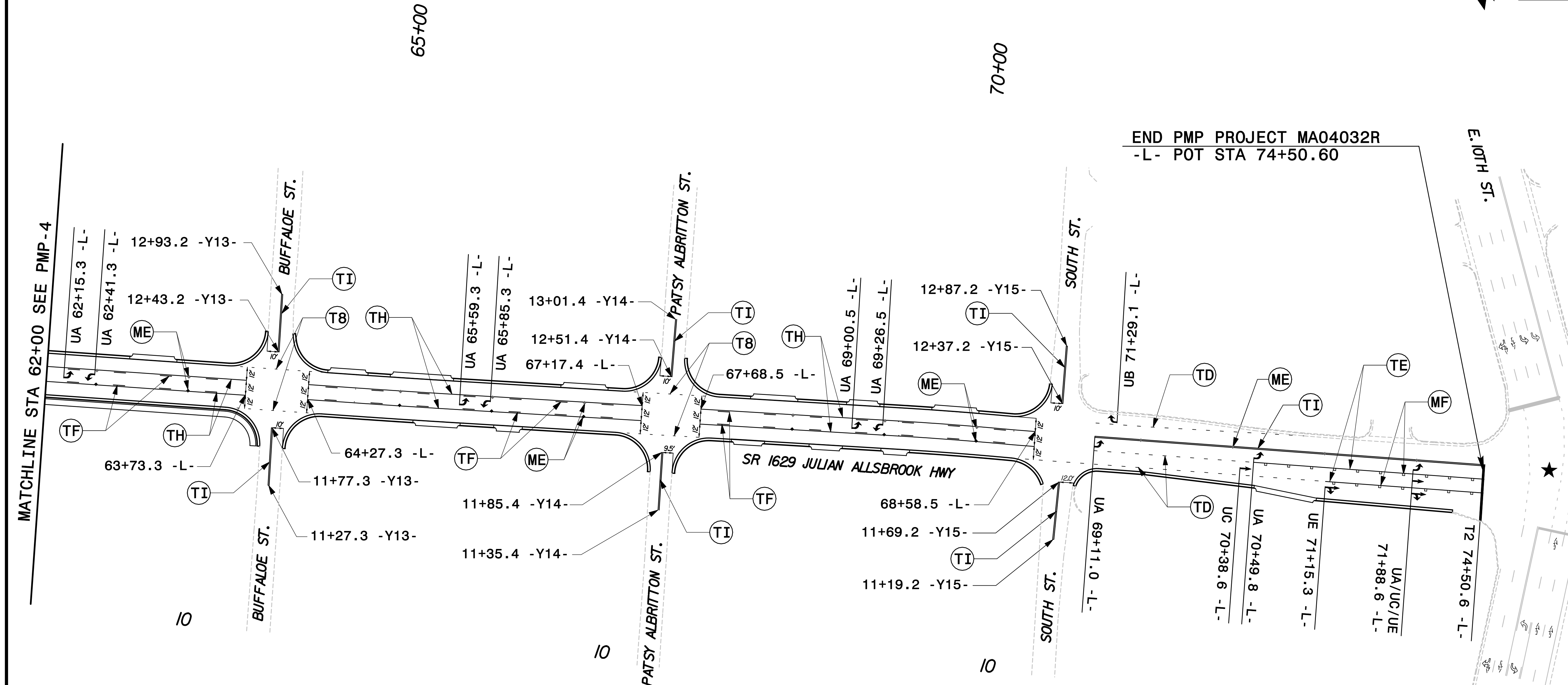
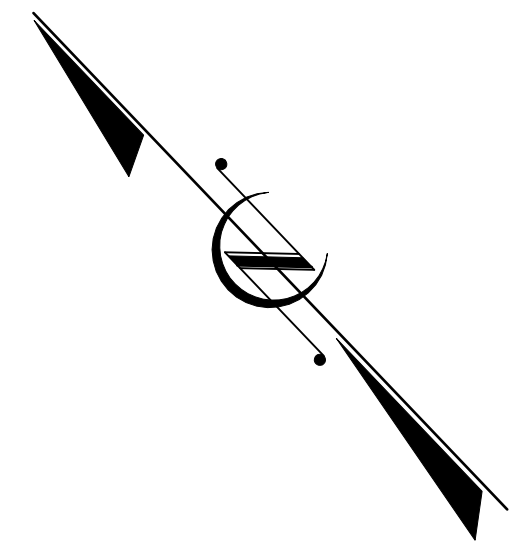
MATCHLINE STA 48+50.00 SEE PMP-4

### FINAL PAVEMENT MARKING SCHEDULE

SYMB	DESCRIPTION
	PAVEMENT MARKINGS
	THERMOPLASTIC(24", 120 MILS)
T2	WHITE STOPBAR
	THERMOPLASTIC(4", 120 MILS)
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	THERMOPLASTICPAVEMENT MARKING SYMBOLS (90 MILS)
UA	LEFT TURN ARROW
UE	COMBO RIGHT/STRAIGHT ARROW
	PERMANENT SNOWPLOWABLE PAVEMENT MARKERS
ME	YELLOW & YELLOW
MF	CRYSTAL & RED



**PAVEMENT MARKING DETAIL**



**FINAL PAVEMENT MARKING SCHEDULE**

SYMB	DESCRIPTION	SYMB	DESCRIPTION
<u>PAVEMENT MARKINGS</u>			
	THERMOPLASTIC(24", 120 MILS)		THERMOPLASTIC(8", 120 MILS)
T2	WHITE STOPBAR	TQ	WHITE CROSSWALK LINE
	THERMOPLASTIC(4", 120 MILS)		THERMOPLASTICPAVEMENT MARKING SYMBOLS (90 MILS)
T8	2 FT. - 6 FT./SP WHITE MINISKIP	UA	LEFT TURN ARROW
TD	3 FT. - 9 FT./SP WHITE MINISKIP	UB	RIGHT TURN ARROW
TE	WHITE SOLID LANE LINE	UC	STRAIGHT ARROW
TF	10 FT. YELLOW SKIP	UE	COMBO RIGHT/STRAIGHT ARROW
TH	YELLOW SINGLE CENTER		
TI	YELLOW DOUBLE CENTER		
			<u>PERMANENT SNOWPLOWABLE PAVEMENT MARKERS</u>
		ME	YELLOW & YELLOW
		MF	CRYSTAL & RED

★ DENOTES SIGNALIZED INTERSECTION

**PAVEMENT MARKING DETAIL**

**TIP PROJECT: 37742**

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

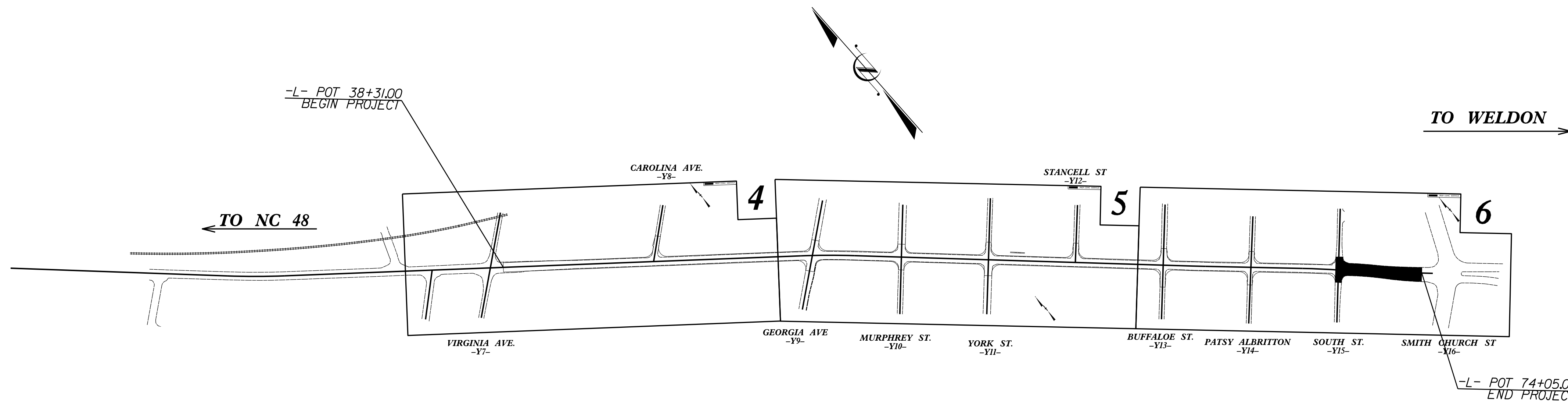
**LOCATION: SR-1629 FROM VIRGINIA AVE. TO SOUTH STREET**

**TYPE OF WORK: GRADING, DRAINAGE AND PAVING**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	37742	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

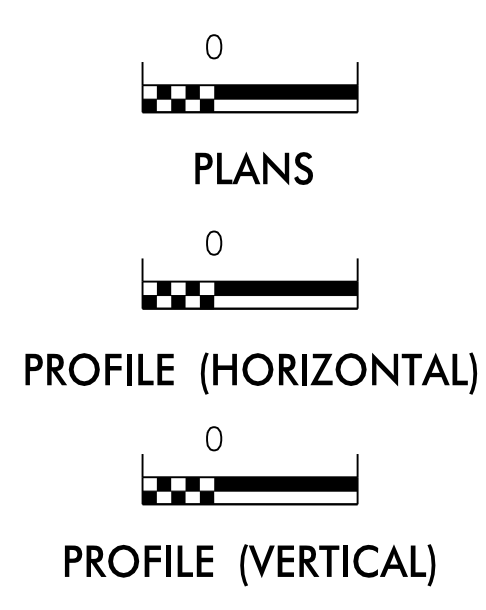
**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	△△△△△
1622.01	Temporary Berms and Slope Drains	—
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▩
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▩
1633.02	Temporary Rock Silt Check Type-B	▩
	Wattle/Coir Fiber Wattle	—
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	—
1634.01	Temporary Rock Sediment Dam Type-A	▩
1634.02	Temporary Rock Sediment Dam Type-B	▩
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊓
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊓
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭



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

**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**

Designed by:

**Wes Chandler**      **3374**  
 NAME      LEVEL III CERTIFICATION NO.

**Roadway Standard Drawings**

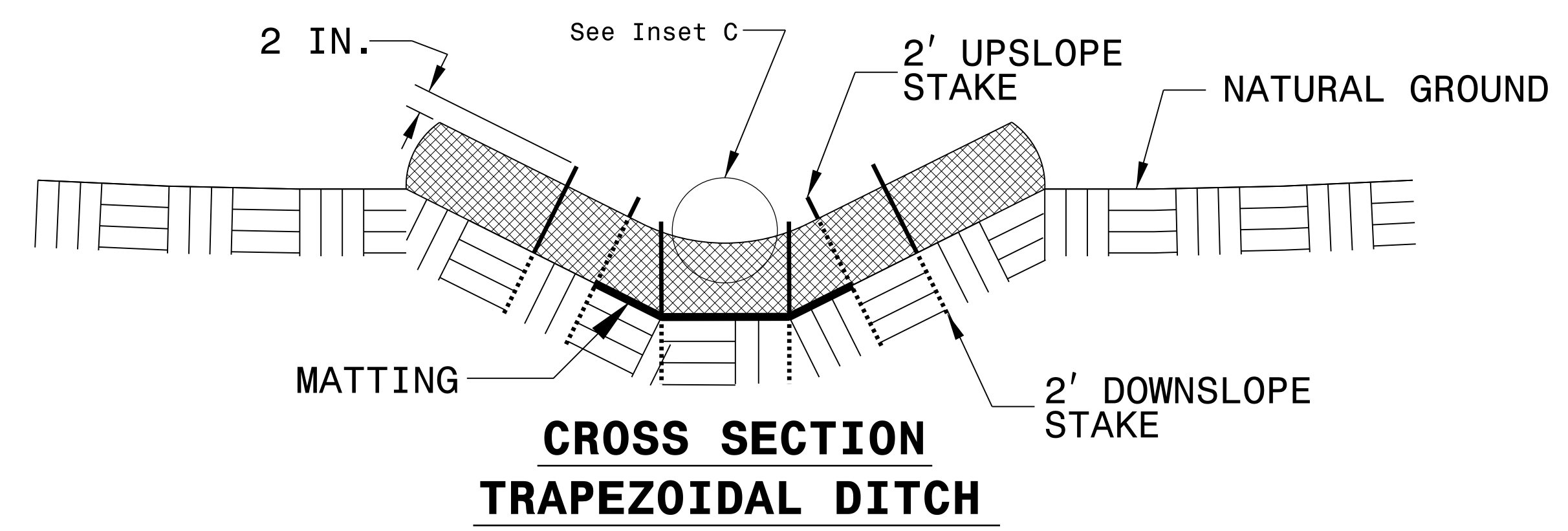
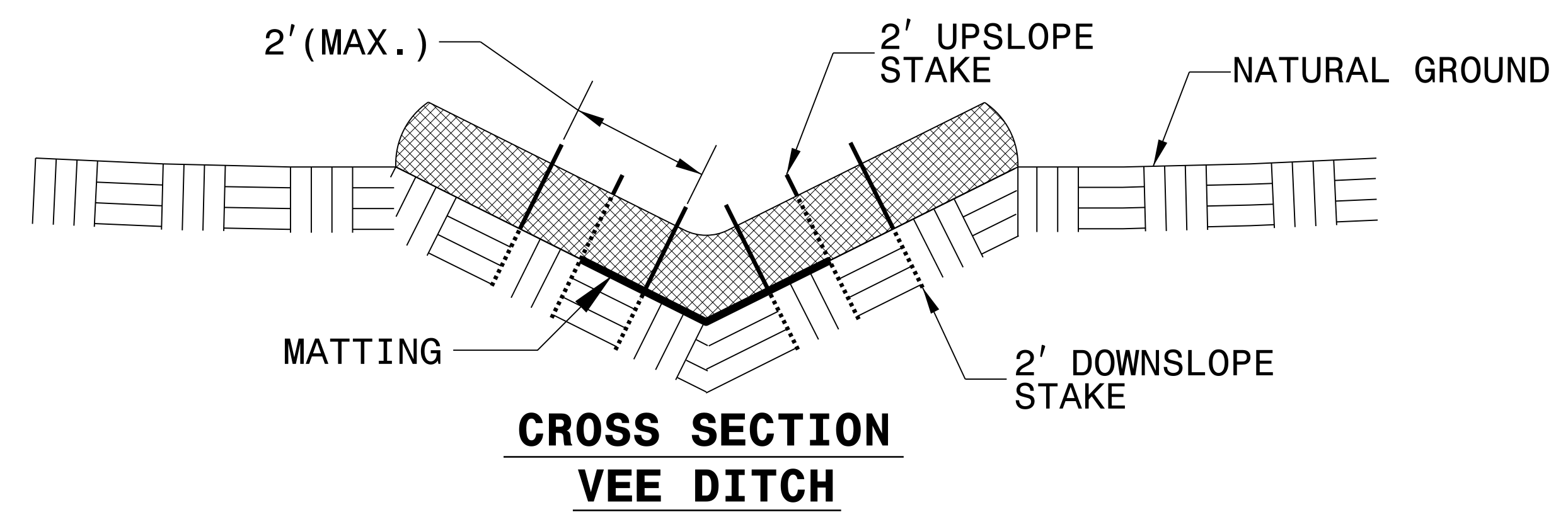
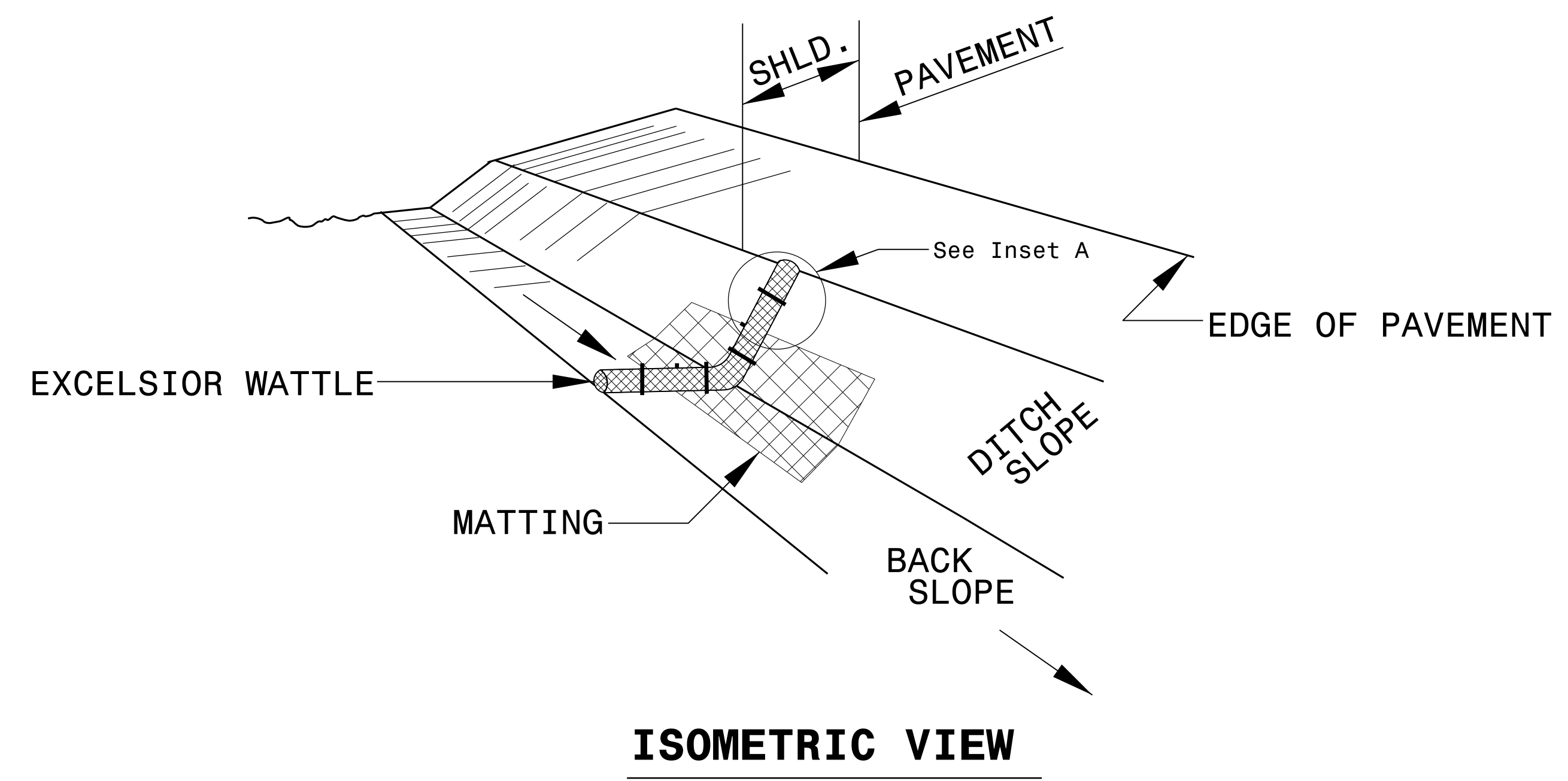
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C. dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

27-JUN-2016 08:39 wjohnson\1742\_EC-1.dgn

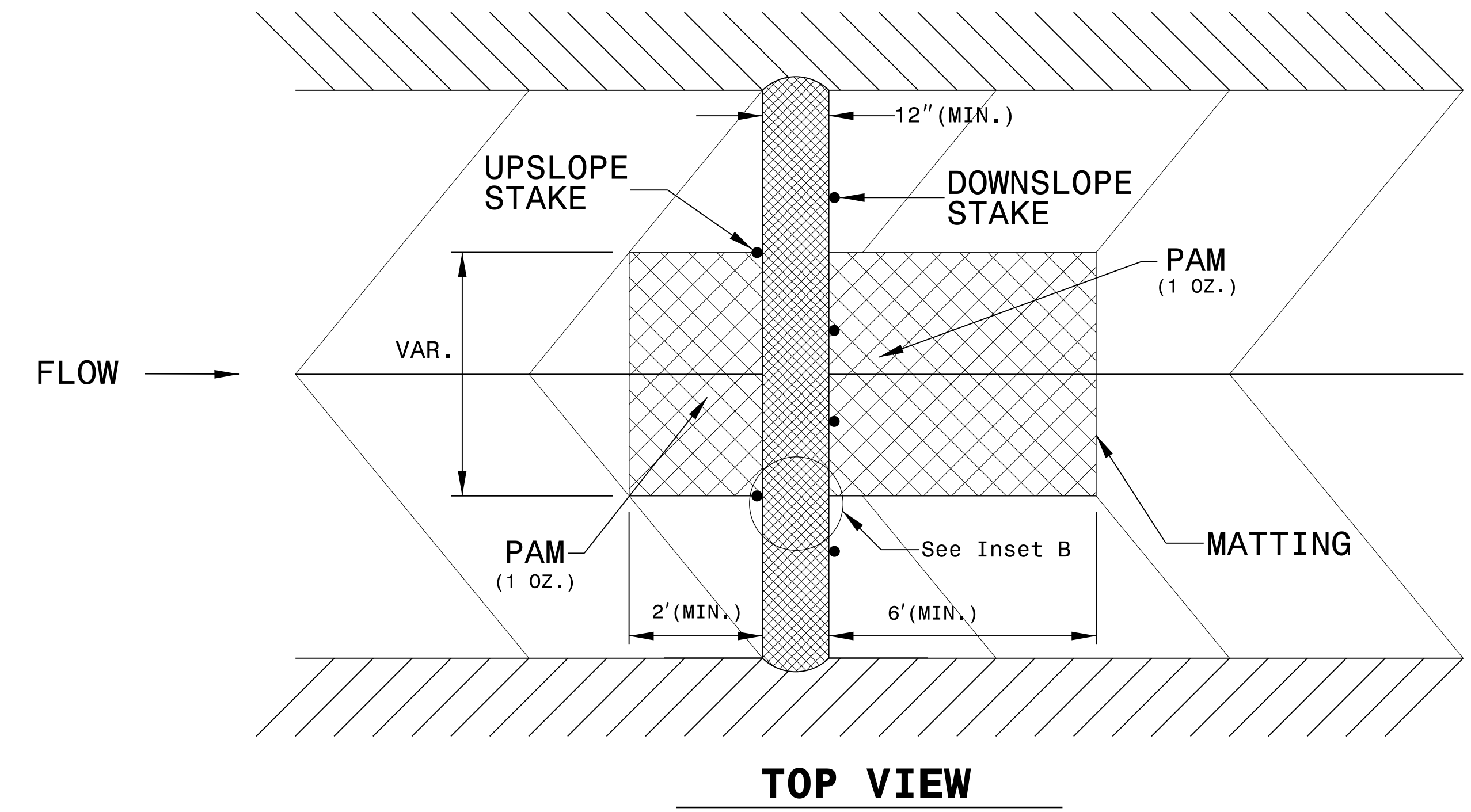
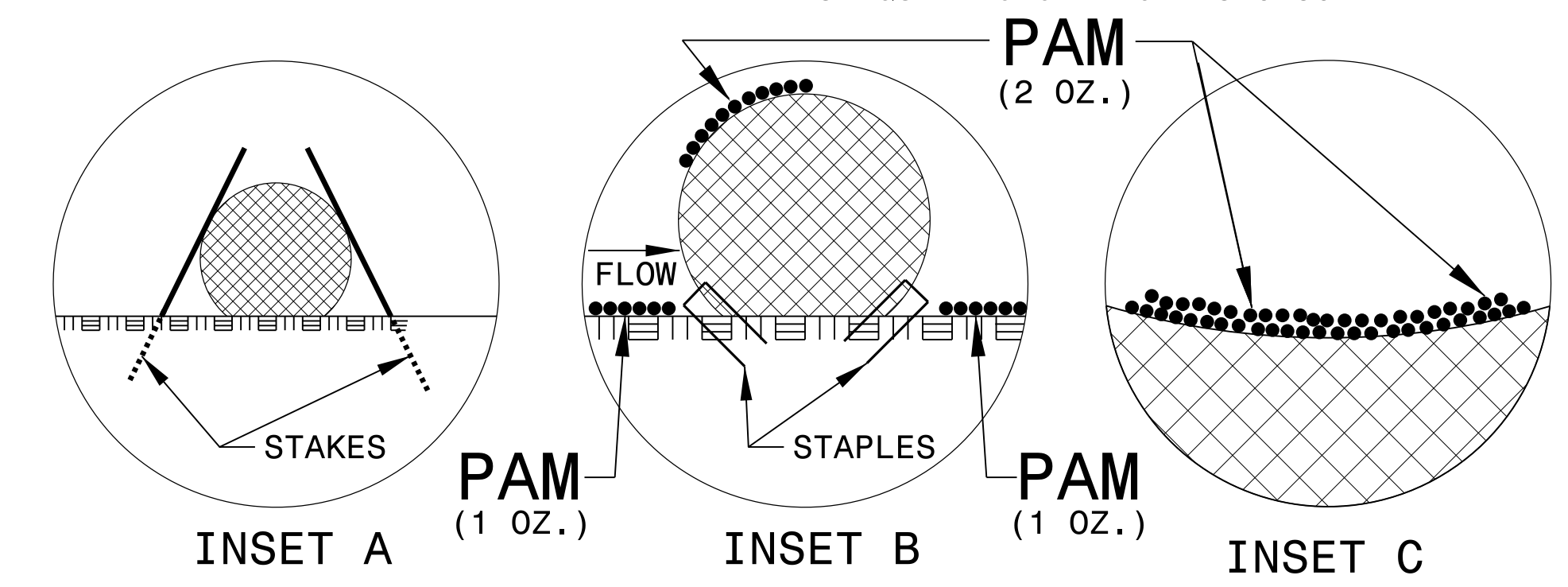
PROJECT REFERENCE NO. 37742	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**NOTES:**

- USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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. 37742	SHEET NO. EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ***SOIL STABILIZATION TIMEFRAMES***

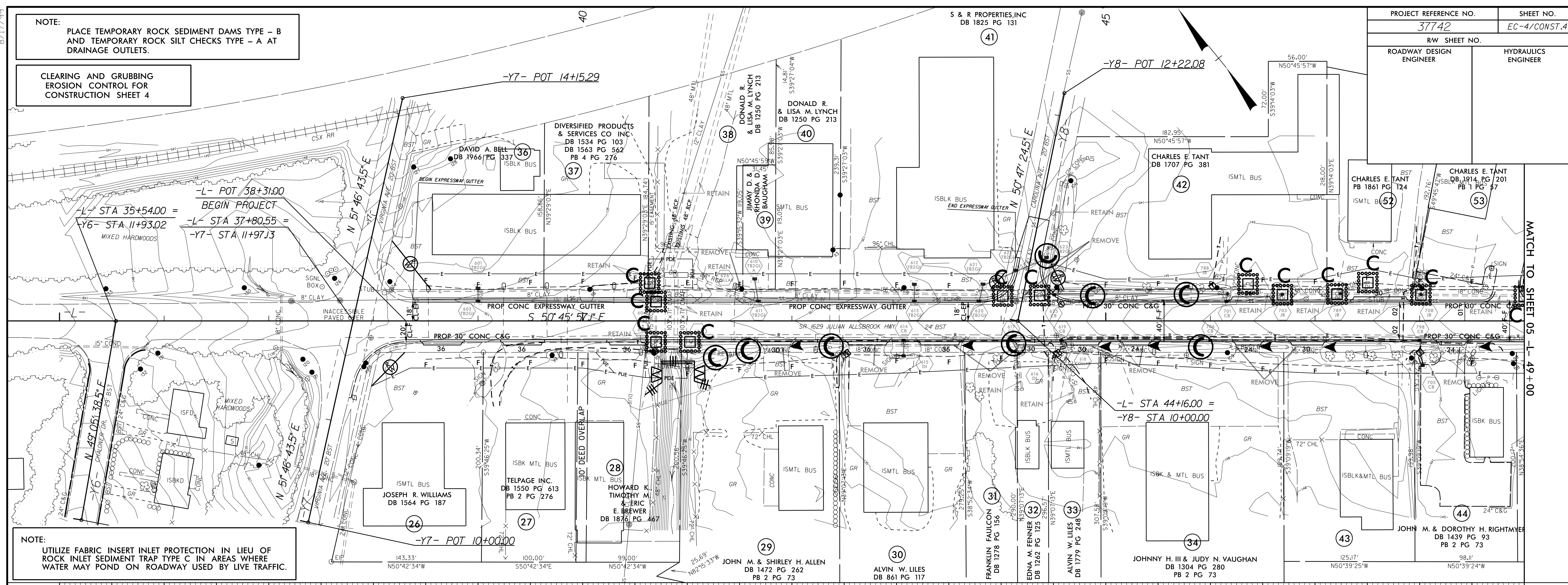
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES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

8/17/99

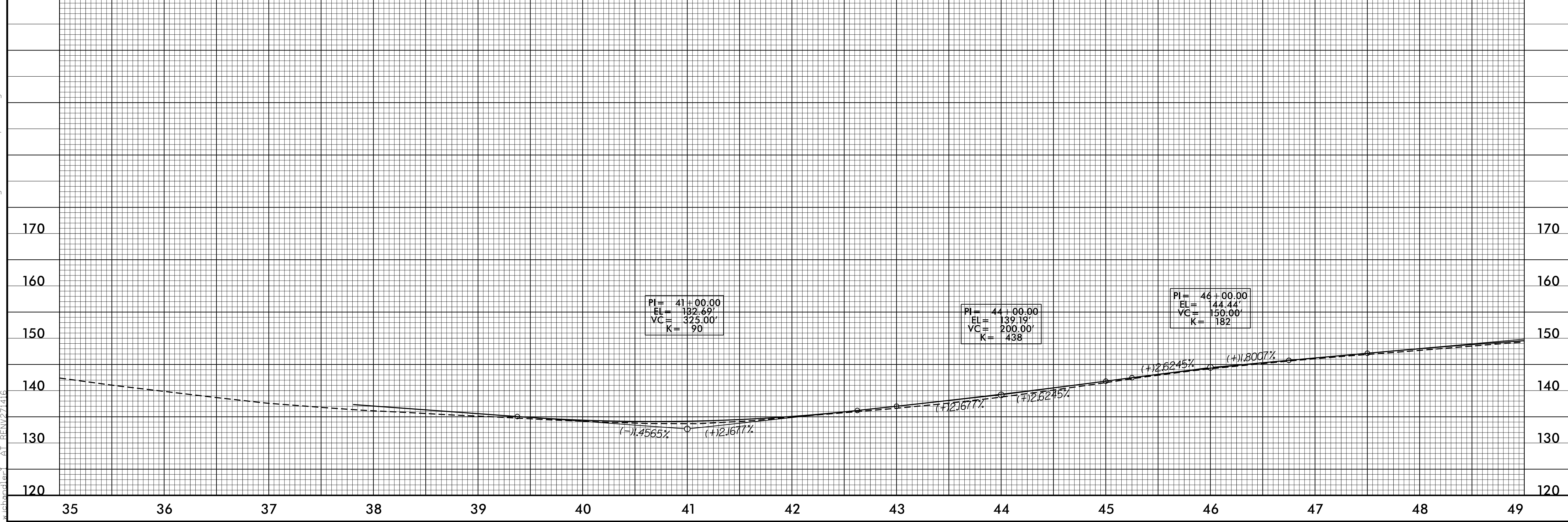
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

PROJECT REFERENCE NO.	SHEET NO.
37742	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



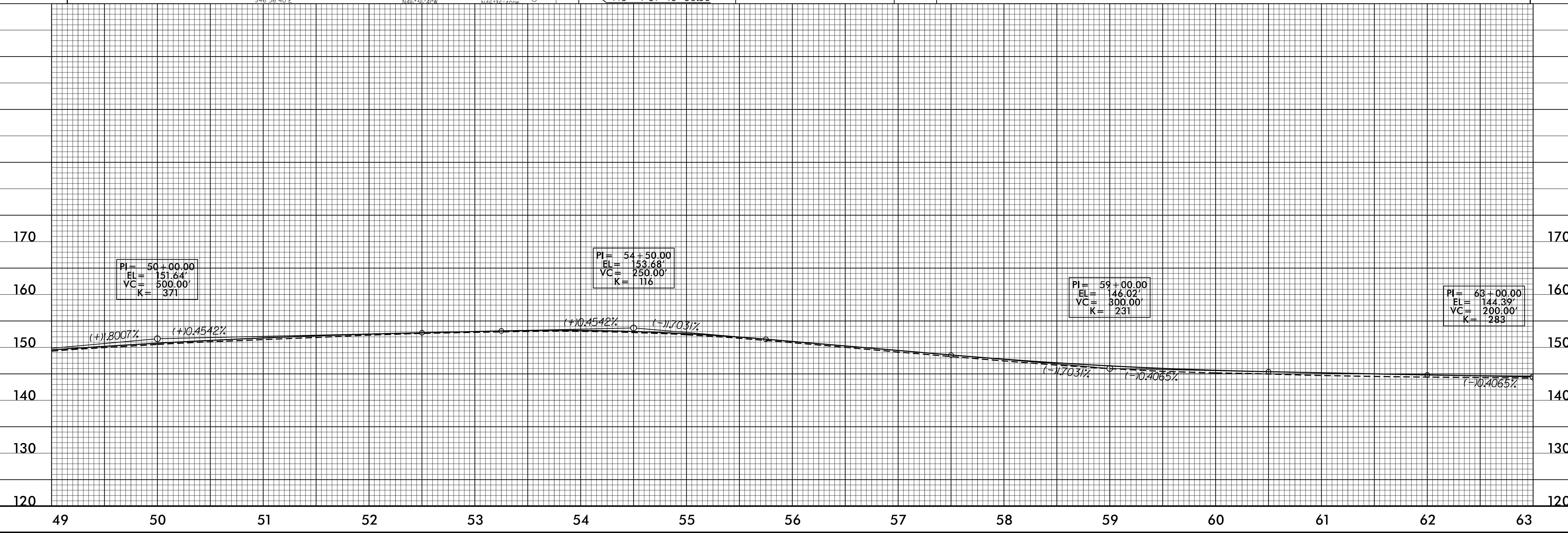
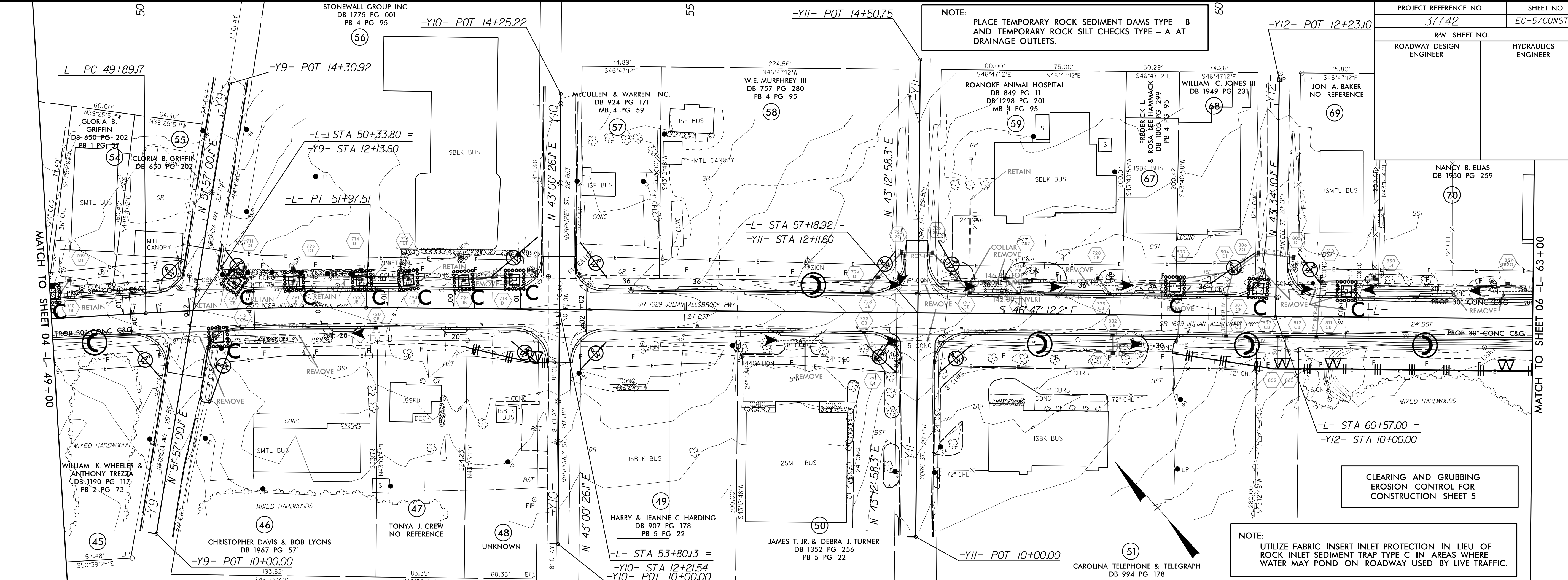
NOTE:  
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF  
ROCK INLET SEDIMENT TRAP TYPE C IN AREAS WHERE  
WATER MAY POND ON ROADWAY USED BY LIVE TRAFFIC.



I:\0-AUG-2017\_09:04... \Documents\Division Jobs\Active\37742\EC\Design\37742\_EC\_psh04.dgn

MATCH TO SHEET 05-1-49+00

8/17/99



22-July-2016 09:02  
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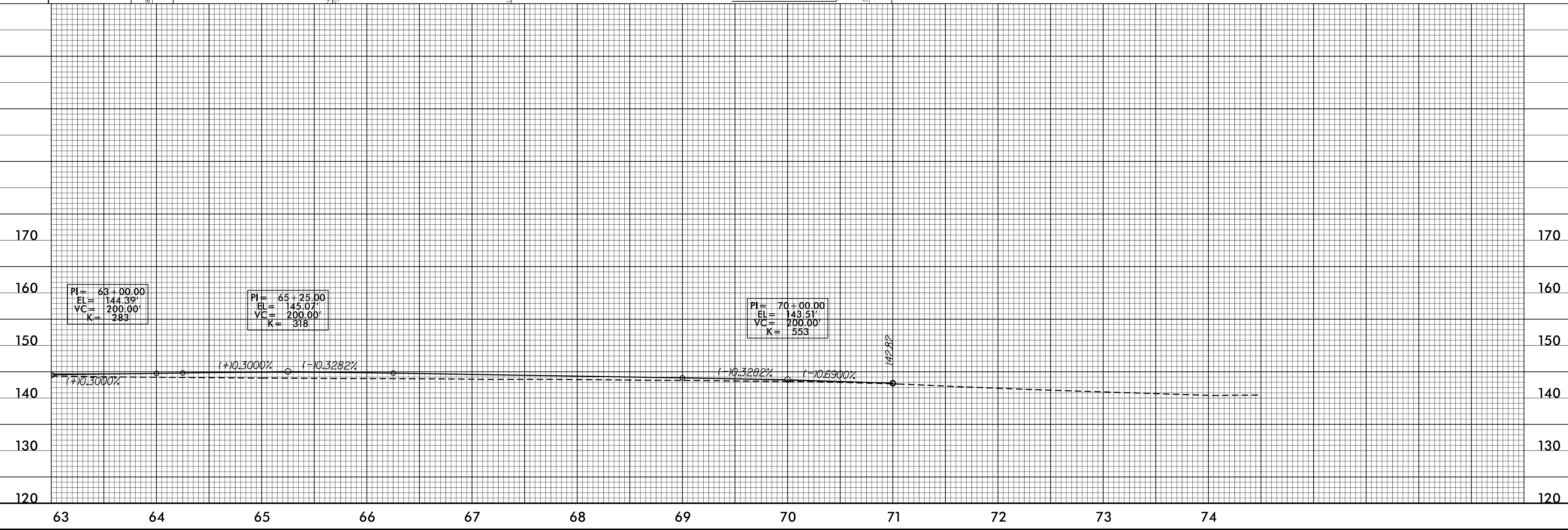
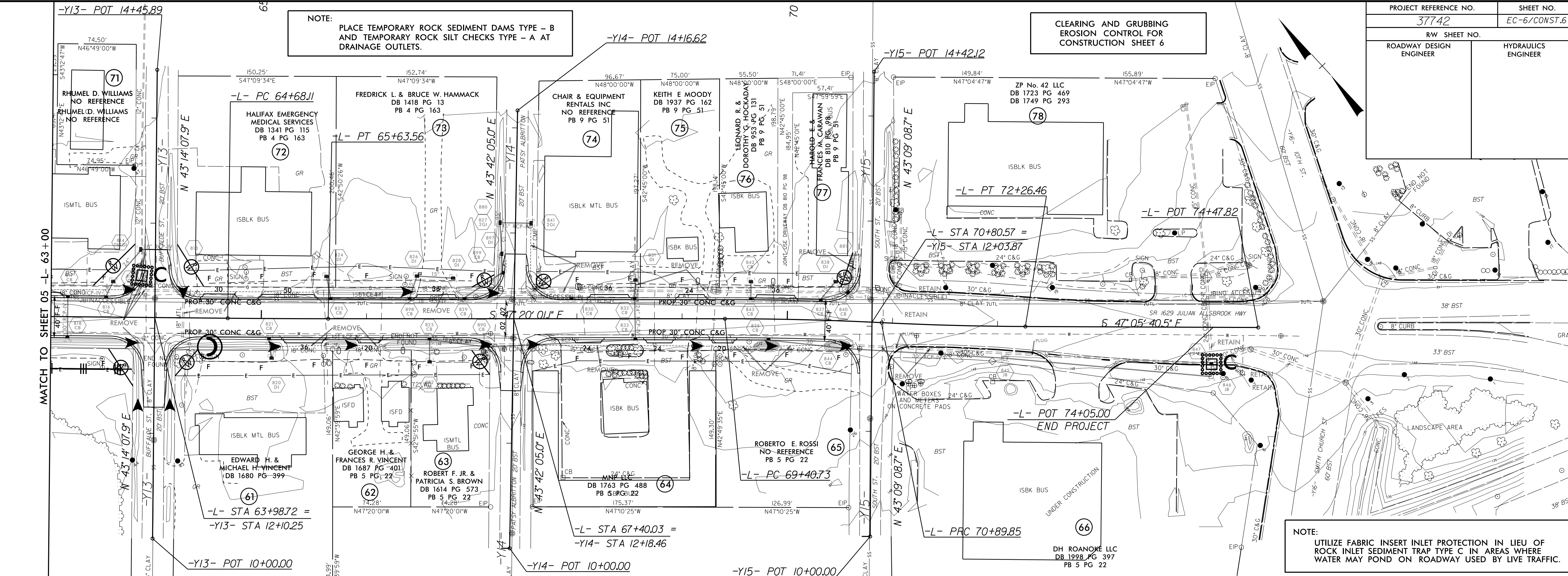


PROJECT REFERENCE NO.	SHEET NO.
37742	EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

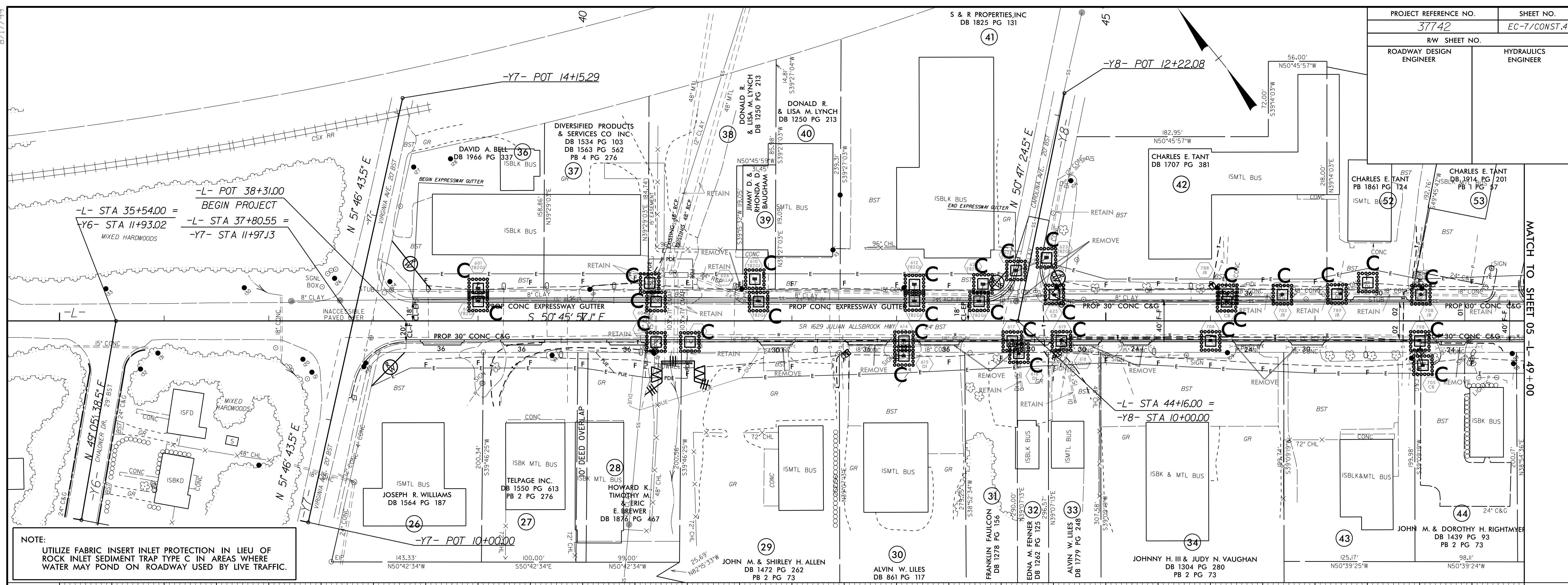
NOTE: UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C IN AREAS WHERE WATER MAY POND ON ROADWAY USED BY LIVE TRAFFIC.



8/17/99  
 22-July-2016 09:45  
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 Plot: 29, 47, 56

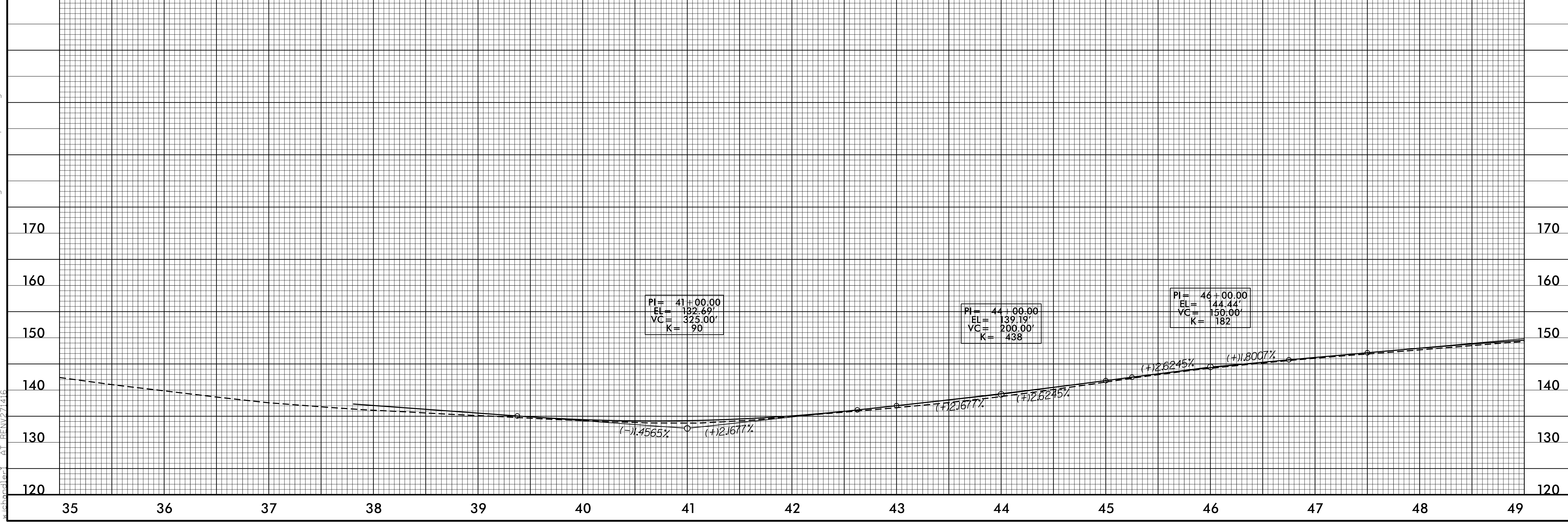
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
37742	EC-7/CONST.4
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



NOTE:  
 UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF  
 ROCK INLET SEDIMENT TRAP TYPE C IN AREAS WHERE  
 WATER MAY POND ON ROADWAY USED BY LIVE TRAFFIC.

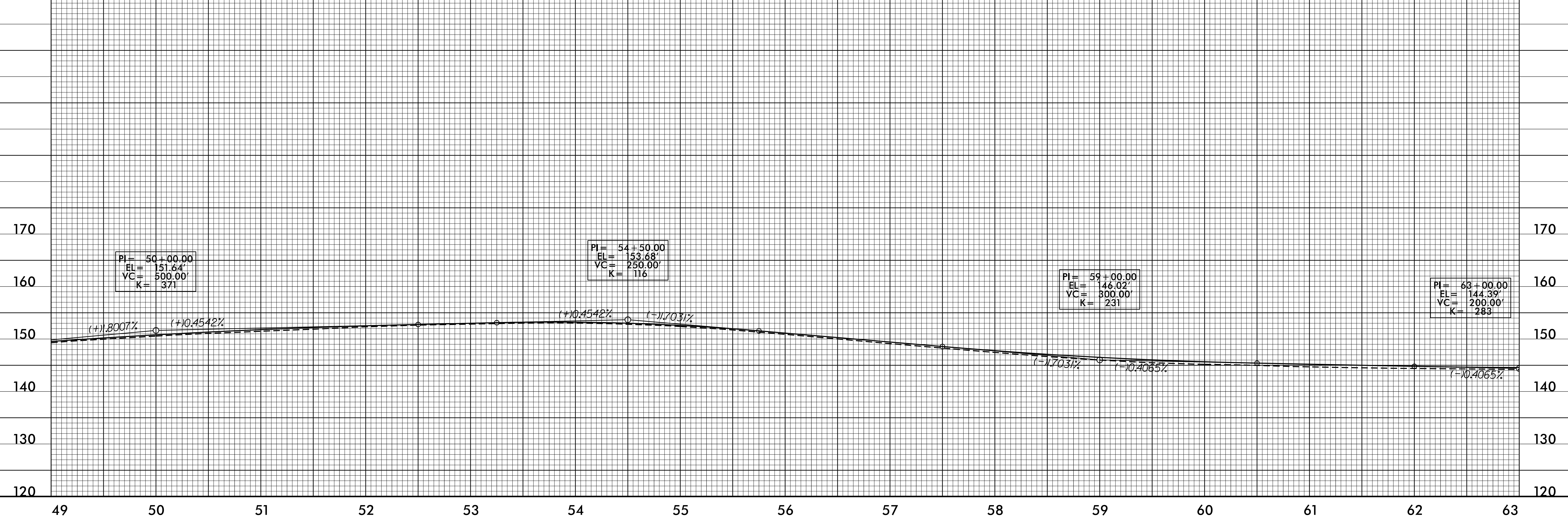
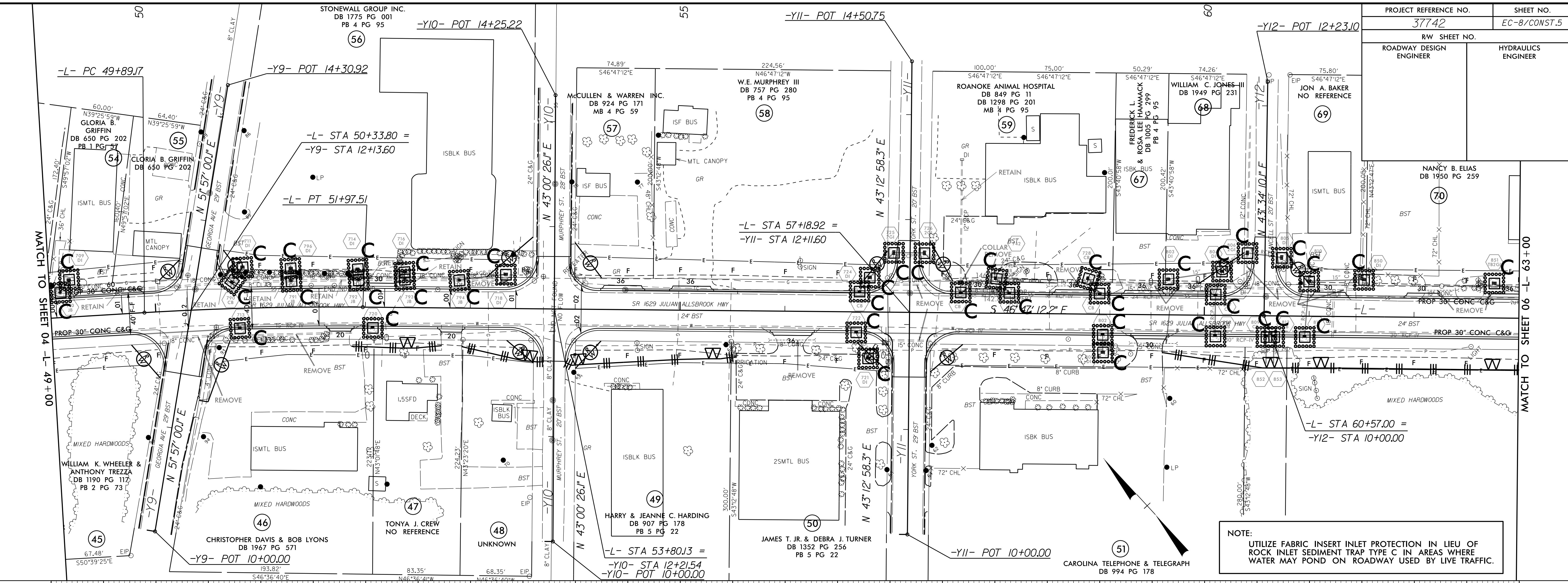
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 8/17/99



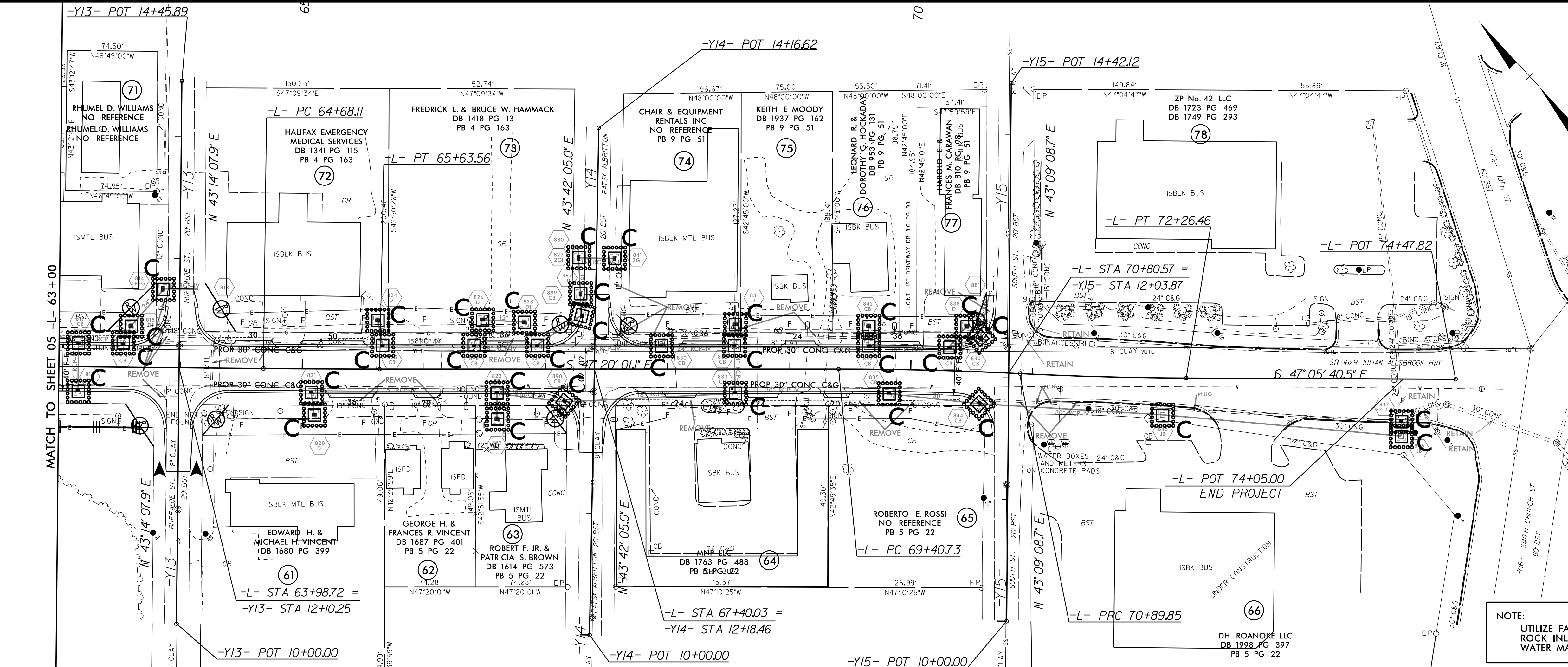
MATCH TO SHEET 05-1-49+00

8/17/99

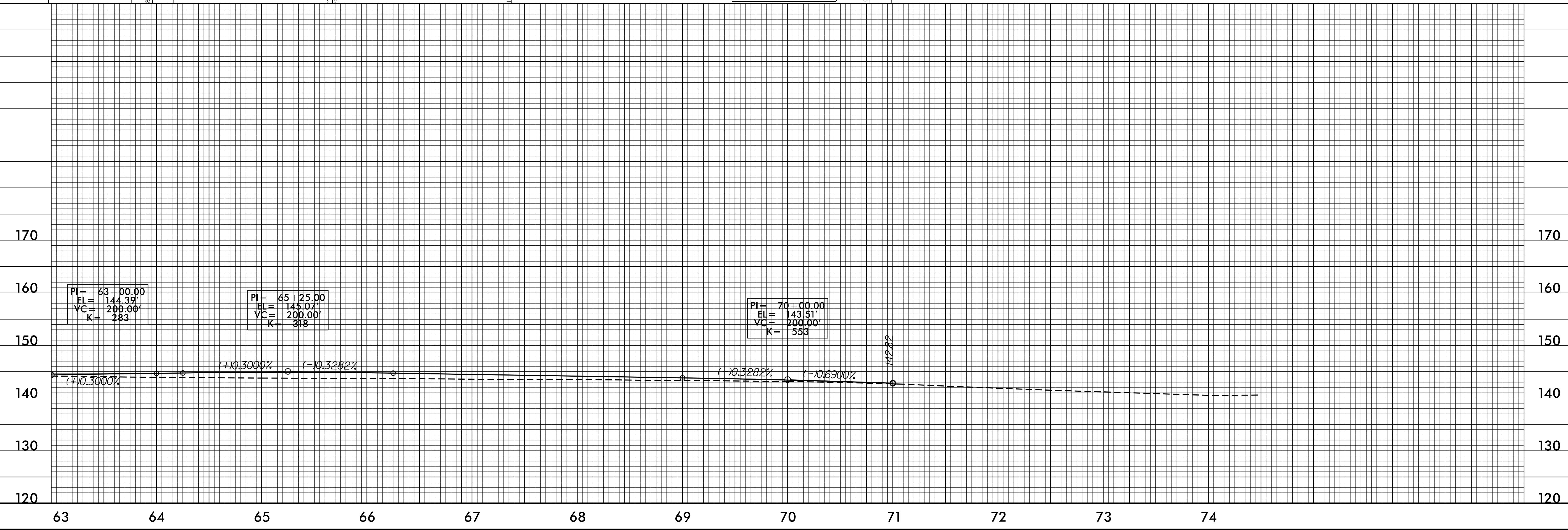
22-July-2016 09:03  
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L:\s\mander



PROJECT REFERENCE NO.	SHEET NO.
37742	EC-9/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE:  
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF  
ROCK INLET SEDIMENT TRAP TYPE C IN AREAS WHERE  
WATER MAY POND ON ROADWAY USED BY LIVE TRAFFIC.



PI = 63+00.00  
EL = 144.39'  
VC = 200.00'  
K = 283

PI = 65+25.00  
EL = 145.07'  
VC = 200.00'  
K = 318

PI = 70+00.00  
EL = 143.51'  
VC = 200.00'  
K = 553

22-JULY-2016 09:44  
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jg

8/17/99

MATCH TO SHEET 05 L-63+00

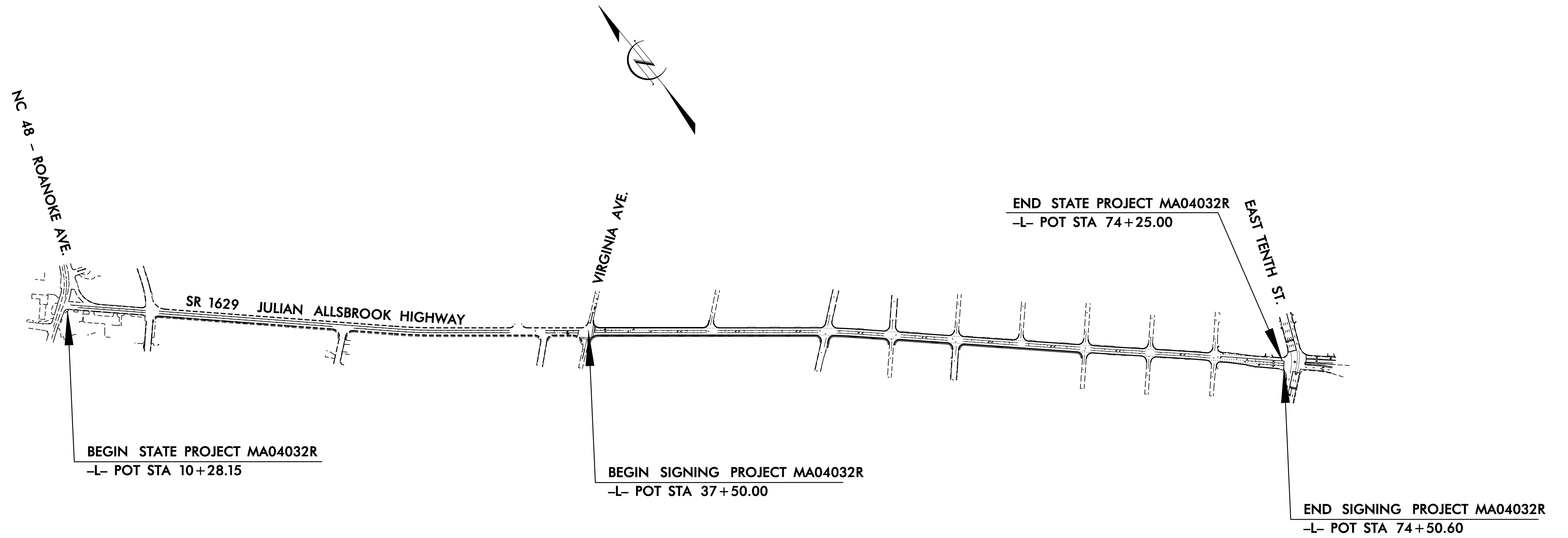
**TIP PROJECT: MA04032R**

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
HALIFAX COUNTY**

**LOCATION: SR 1629 - FROM VIRGINIA AVENUE TO  
EAST TENTH STREET**

<small>TIP NO.</small> MA04032R	<small>SHEET NO.</small> SIGN - 1
<small>APPROVED:</small>	
<small>DATE:</small> JUNE 24, 2013	



**PLAN PREPARED BY: SEPI ENGINEERING & CONSTRUCTION**

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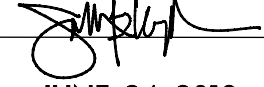
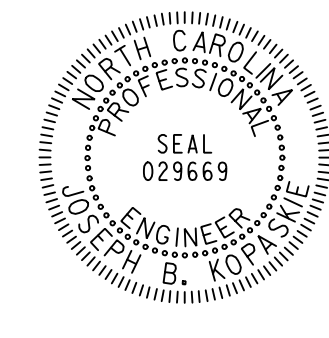
*Joseph B. Kopaskie, PE*    SIGNING & DELINEATION PROJECT ENGINEER  
*RICHARD DRAYTON*    SIGNING & DELINEATION PROJECT DESIGN ENGINEER

**NCDOT CONTACTS:**

---

*AYMAN I. ALQUDWAH, PE*    SIGNING & DELINEATION REGIONAL ENGINEER  
*Mitch Eaton*    SIGNING & DELINEATION PROJECT DESIGN ENGINEER

<b>INDEX</b>	
<small>SHEET NO.</small>	<small>DESCRIPTION</small>
SIGN-1	TITLE SHEET
SIGN-2	NOTES, QUANTITIES AND SPECIFICATIONS
SIGN-3	E SHEET
SIGN-4-9	PROPOSED & EXISTING SIGNING PLAN SHEETS

TIP NO.	SHEET NO.
MA04032R	SIGN - 2
APPROVED: 	
DATE: JUNE 24, 2013	
SEAL	

### 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
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

### GENERAL NOTES

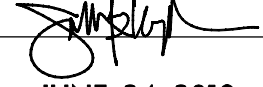
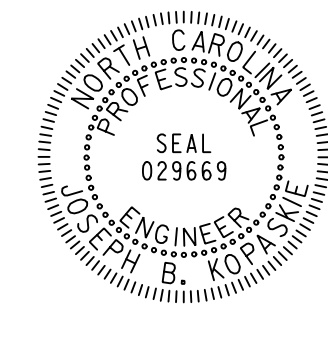
- . SIGNS FURNISHED BY STATE
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE GRADE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

### SUMMARY OF QUANTITIES


ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	366	L.F.
4102000000	904	SIGN ERECTION, TYPE E	33	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	37	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	1	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E	1	EA.

### PROJECT NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2. SIGN ERECTION, RELOCATE SIGN TYPE E
3. DISPOSAL OF SUPPORT, U-CHANNEL

TIP NO.	SHEET NO.
MA04032R	SIGN-3
APPROVED: 	
DATE: JUNE 24, 2013	
SEAL	
	


401 QUANTITY REQ'D 3



24 X 30  
R2-1

ONE "U" POST PER SIGN


405 QUANTITY REQ'D 1



24 X 30  
S5-2

MOUNT BELOW SIGN 401  
IN ONE INSTALLATION

409 QUANTITY REQ'D 2




36 X 36  
S1-1

YELLOW/GREEN REFLECTIVE SHEETING

ONE "U" POST PER SIGN


413 QUANTITY REQ'D 2



30 X 30  
W11-8

ONE "U" POST PER SIGN


402 QUANTITY REQ'D 1



24 X 30  
R2-1

ONE "U" POST PER SIGN

406 QUANTITY REQ'D 1




24 X 8  
S4-3P

YELLOW/GREEN REFLECTIVE SHEETING

MOUNT ABOVE SIGN 402  
IN ONE INSTALLATION


410 QUANTITY REQ'D 2



24 X 36  
R3-9B

ONE "U" POST PER SIGN

403 QUANTITY REQ'D 1

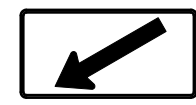


24 X 12  
W16-9P

YELLOW/GREEN REFLECTIVE SHEETING

MOUNT BELOW SIGN 409  
IN ONE INSTALLATION

407 QUANTITY REQ'D 2

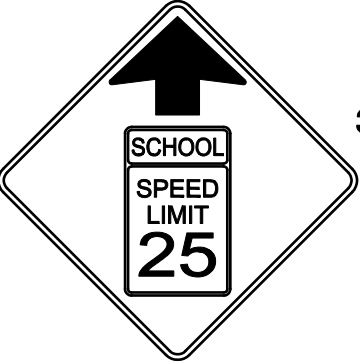


24 X 12  
W16-7P

YELLOW/GREEN REFLECTIVE SHEETING

MOUNT BELOW SIGN 409  
IN TWO INSTALLATIONS

411 QUANTITY REQ'D 1

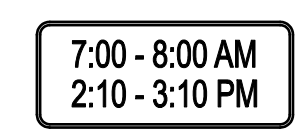


36 X 36  
S4-5

YELLOW/GREEN REFLECTIVE SHEETING

TWO "U" POSTS PER SIGN


404 QUANTITY REQ'D 1



24 X 10  
S4-1P

MOUNT BELOW SIGN 402  
IN ONE INSTALLATION


408 QUANTITY REQ'D 14



30 X 30  
R1-1

ONE "U" POST PER SIGN


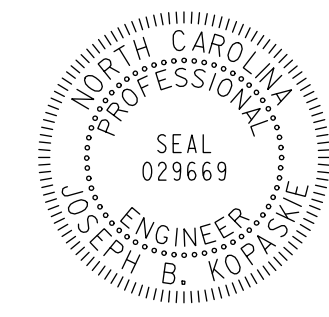
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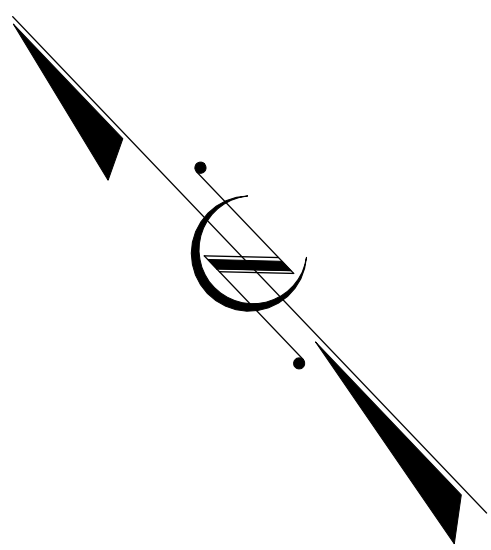


24 X 10  
S4-6P

MOUNT BELOW SIGN 404  
IN ONE INSTALLATION

**TYPE "E" SIGNS**

TIP NO. MA04032R	SHEET NO. SIGN - 4
APPROVED: 	
DATE: JUNE 24, 2013	
SEAL	
	

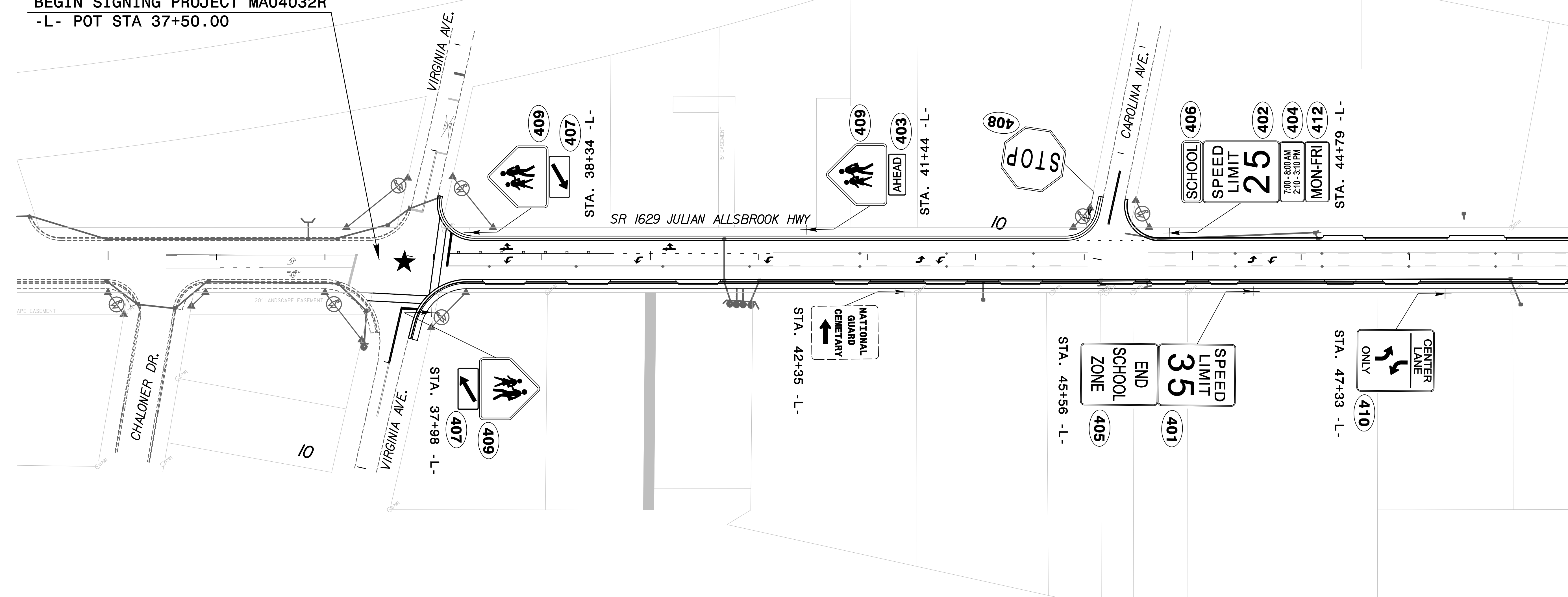


35+00

40+00

45+00

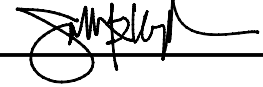
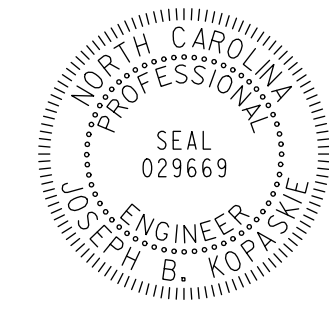
BEGIN SIGNING PROJECT MA04032R  
-L- POT STA 37+50.00

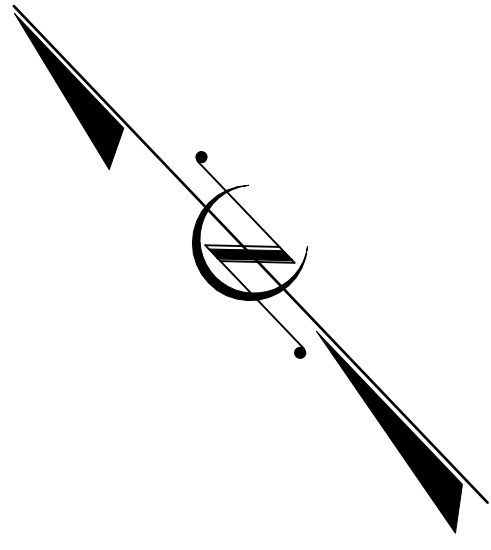


★ DENOTES SIGNALIZED INTERSECTION

MATCHLINE STA 48+50.00 SEE SIGN-5



TIP NO. MA04032R	SHEET NO. SIGN-5
APPROVED: 	
DATE: JUNE 24, 2013	
SEAL	
	



MATCHLINE STA 48+50.00 SEE SIGN-4

MATCHLINE STA 62+00.00 SEE SIGN-6

SR 1629 JULIAN ALLSBROOK HWY

50+00

55+00

60+00

GEORGIA AVE.

MURPHREY ST.

YORK ST.

STANCELL ST.

STOP 408

STOP 408

STOP 408

STOP 408

STOP 408

STOP 408

411  
SCHOOL SPEED LIMIT 25

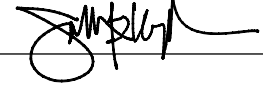
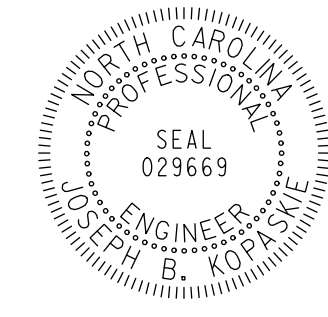
STA. 51+05 -L-

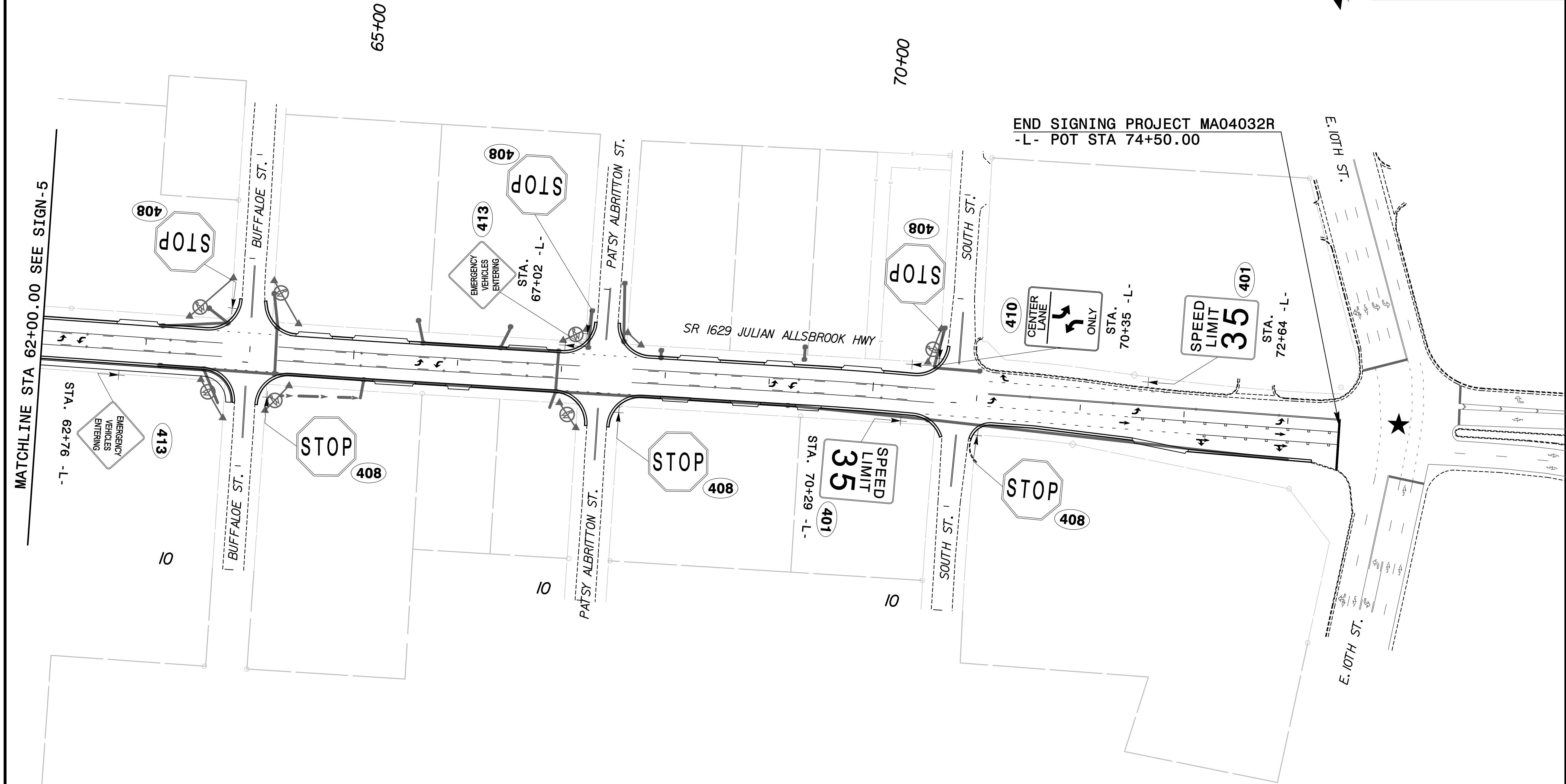
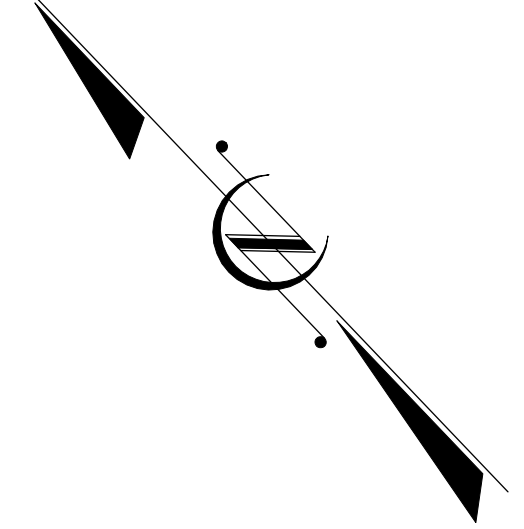
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10

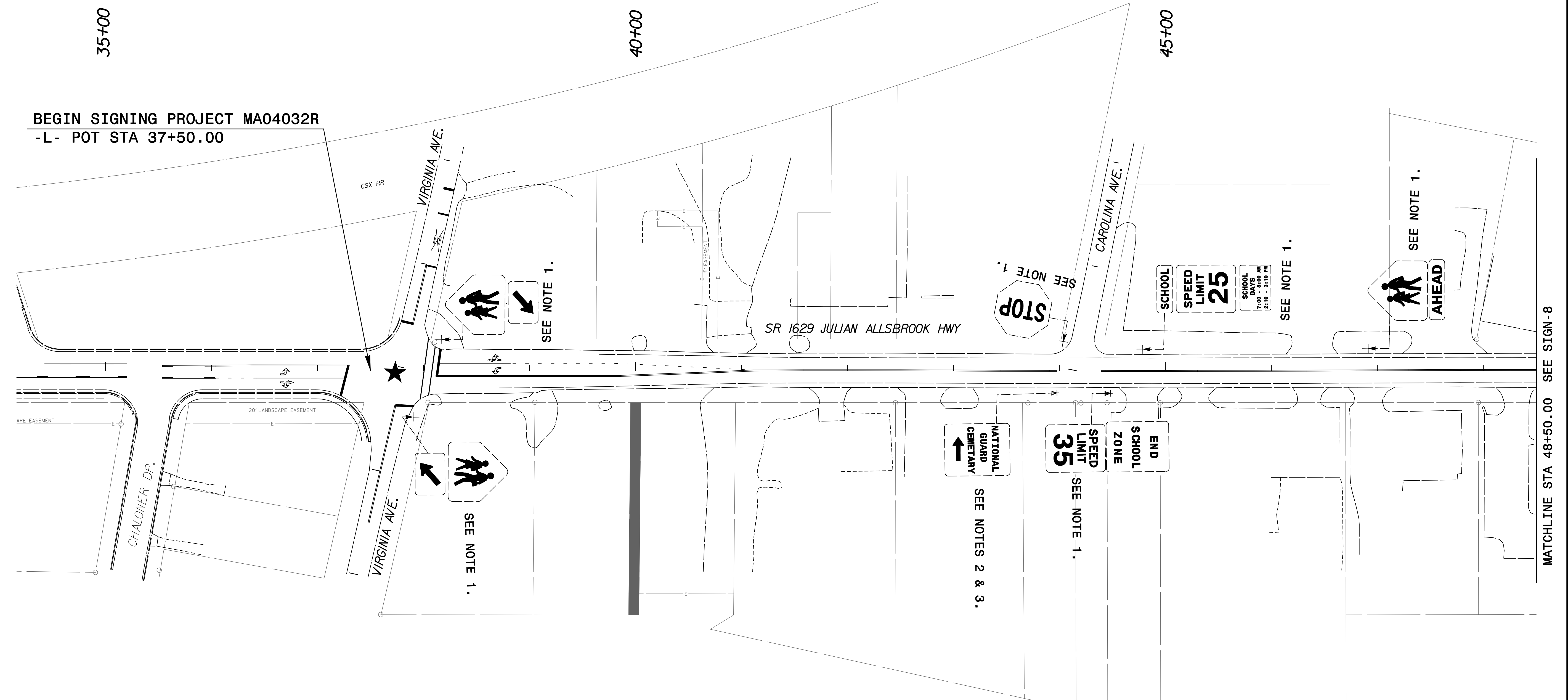
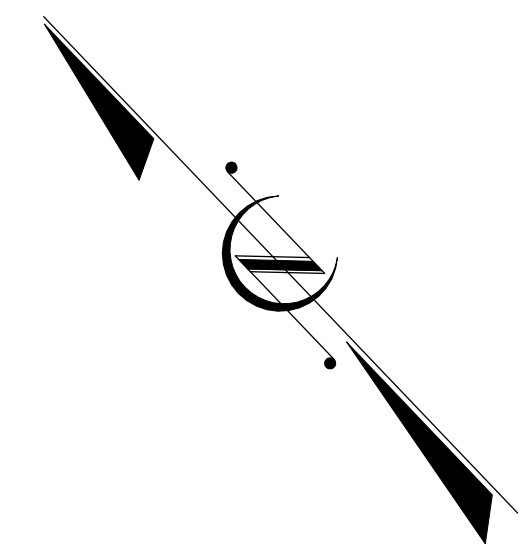
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REMOVE

TIP NO. MA04032R	SHEET NO. SIGN-6
APPROVED: 	
DATE: JUNE 24, 2013	
SEAL	
	

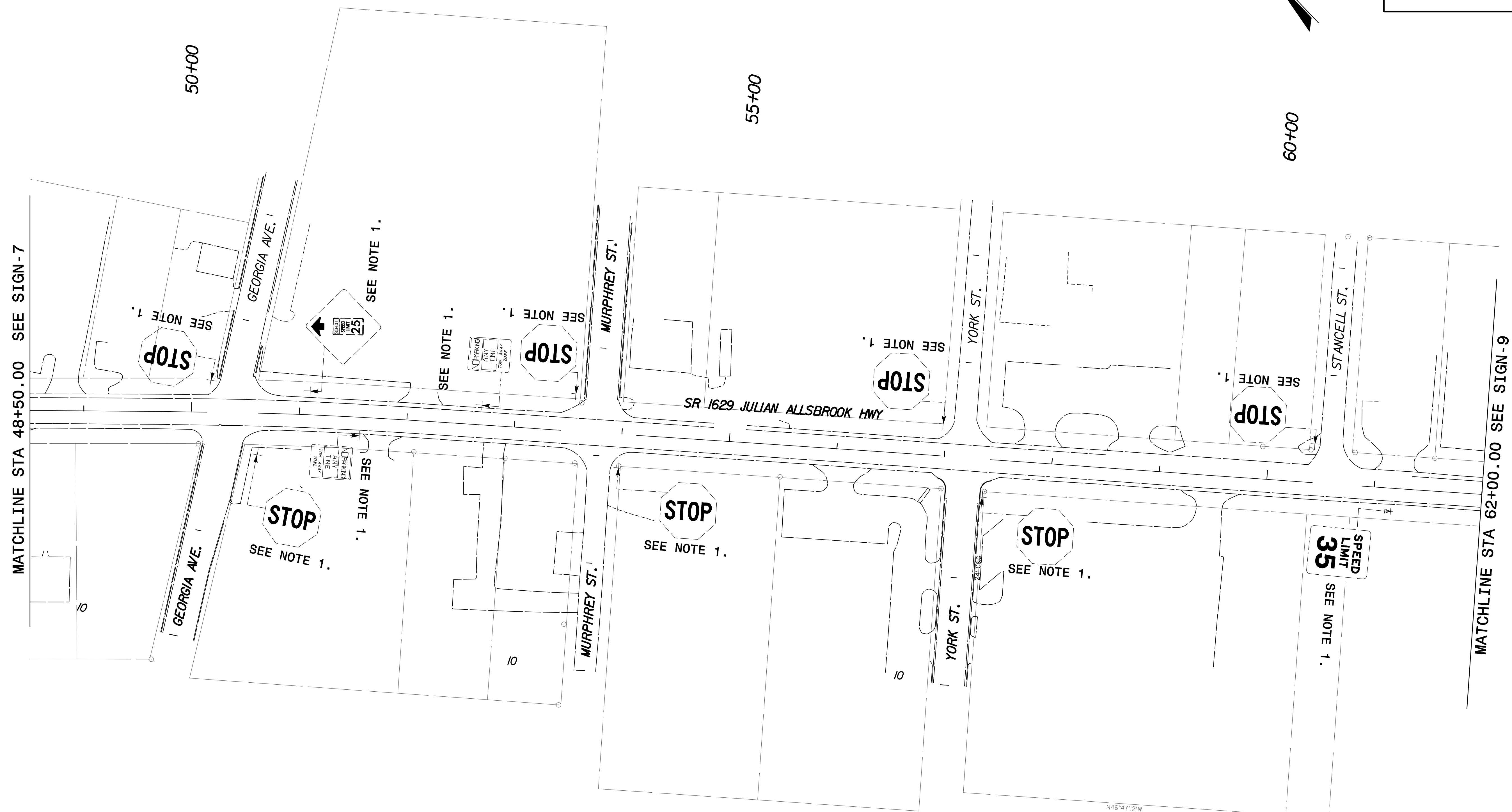
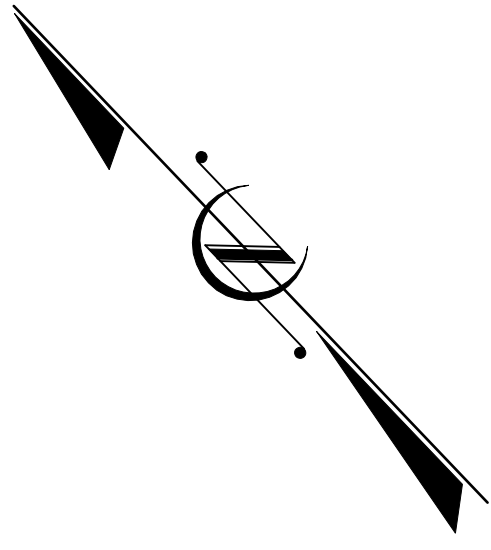


★ DENOTES SIGNALIZED INTERSECTION



**NOTES**

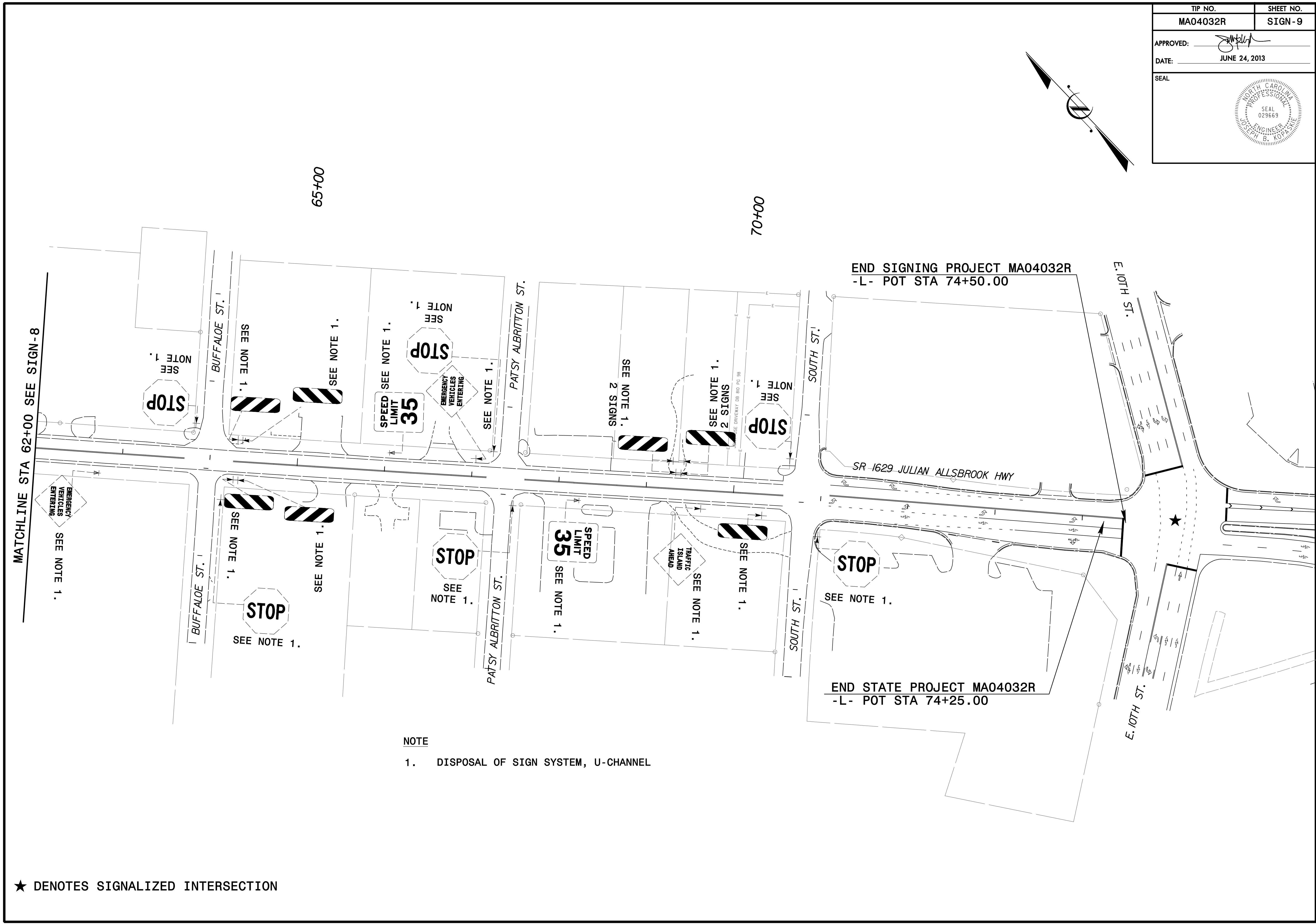
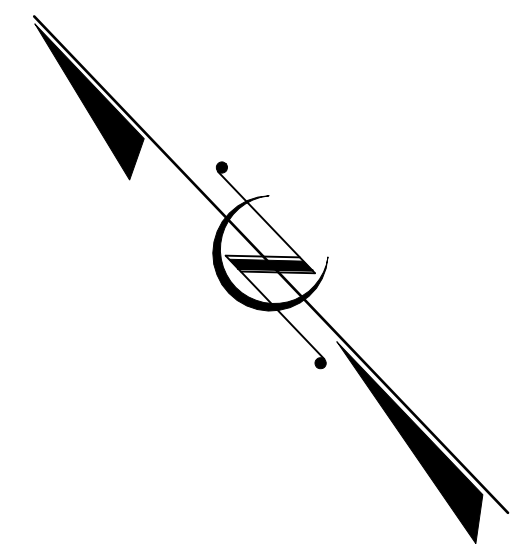
1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2. SIGN ERECTION, RELOCATE SIGN TYPE E
3. DISPOSAL OF SUPPORT, U-CHANNEL



**NOTE**  
1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

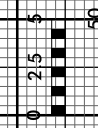
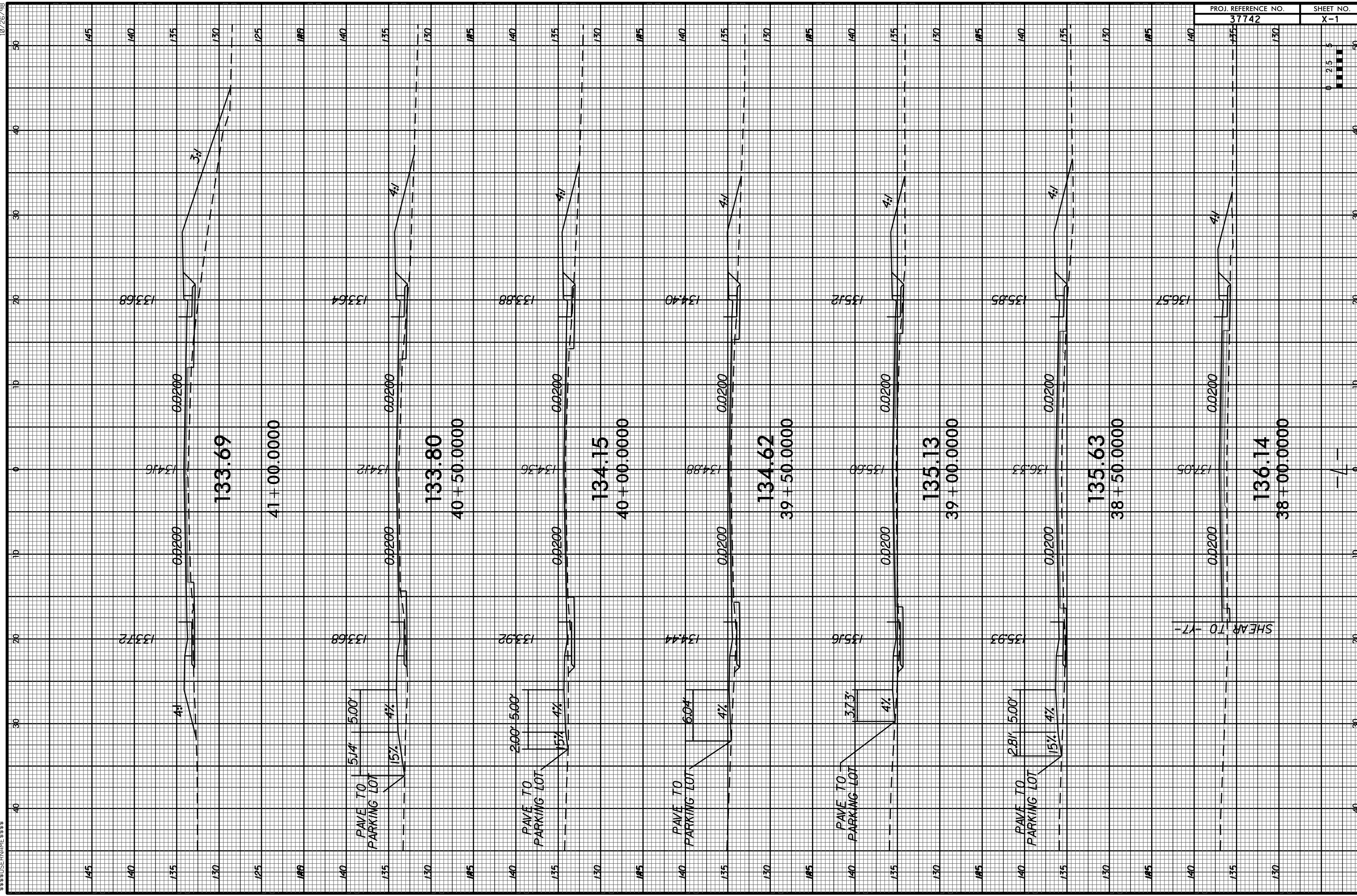
629.2'  
S45°21'21"W

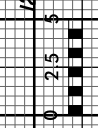
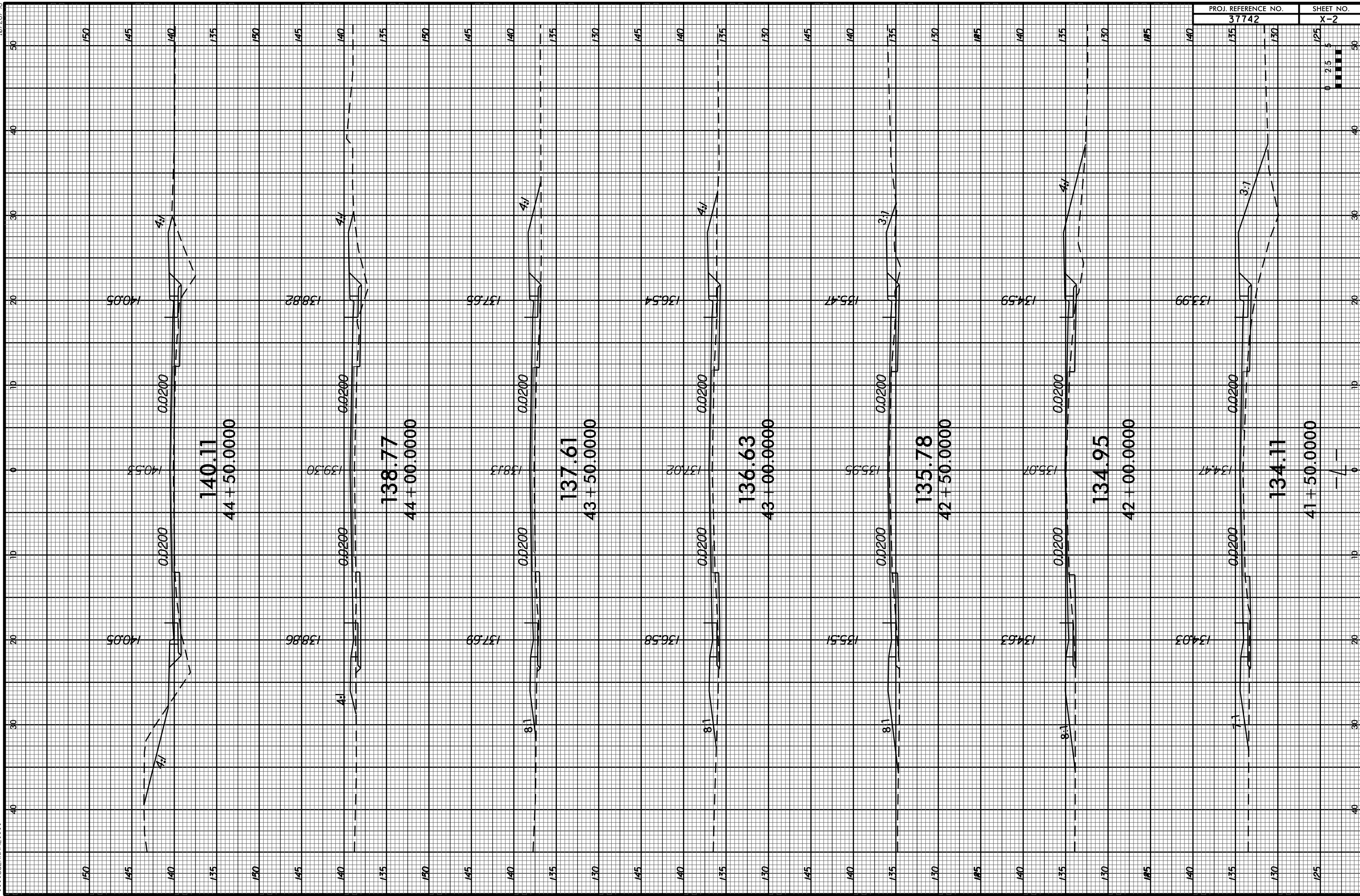
N46°47'12"W



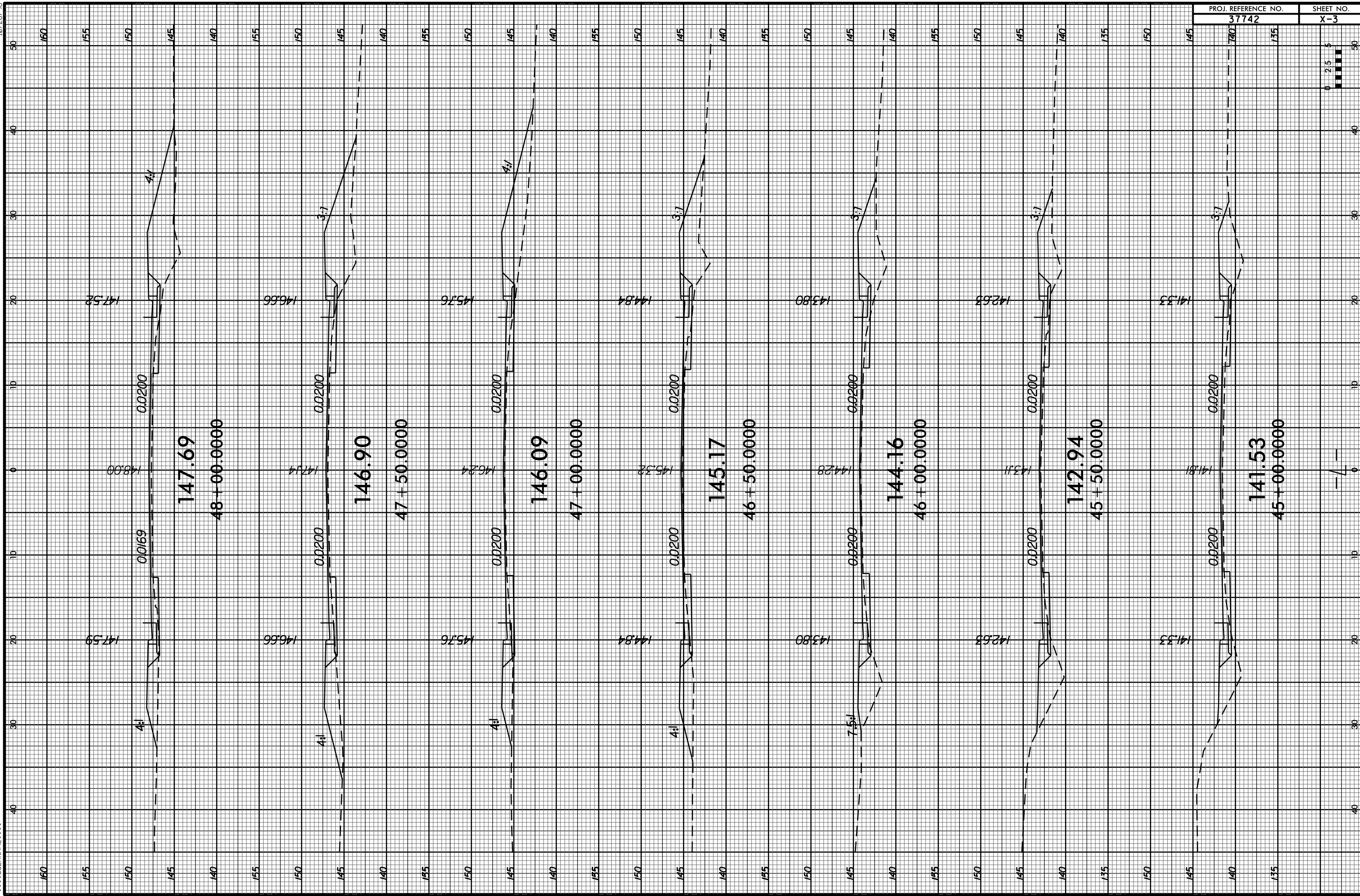
★ DENOTES SIGNALIZED INTERSECTION

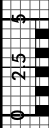
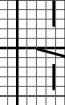
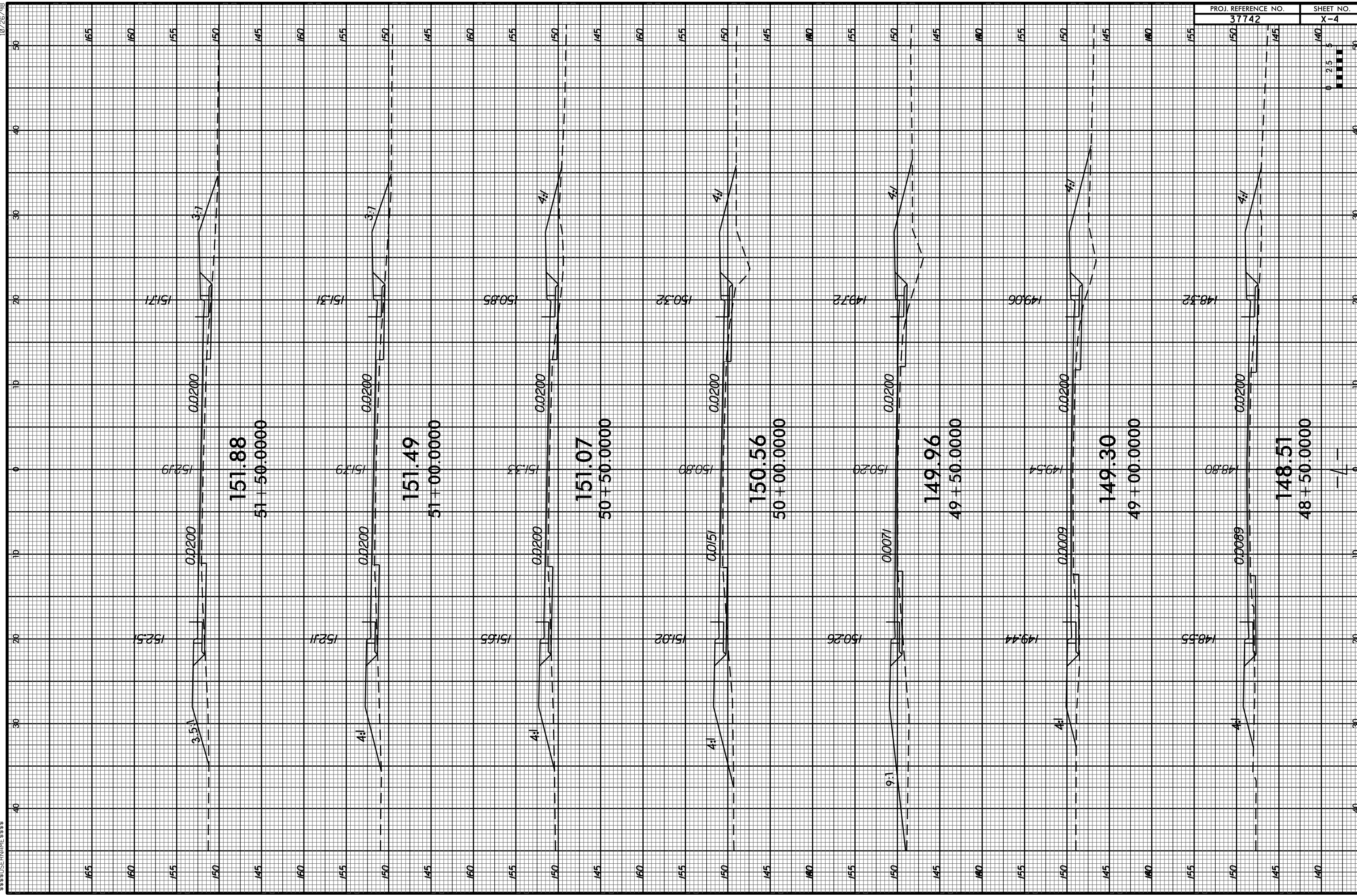


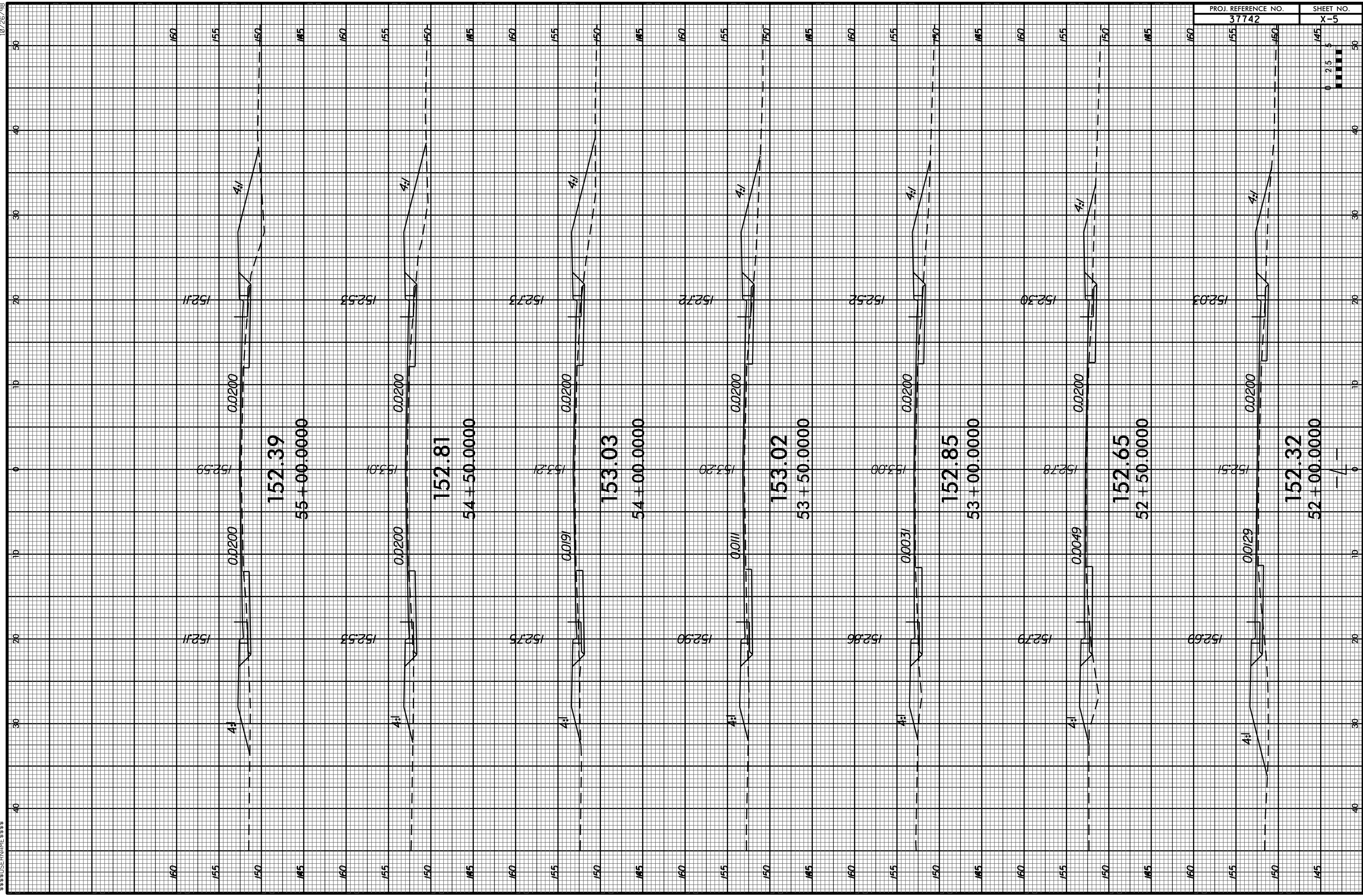




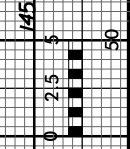


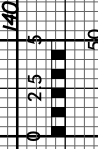
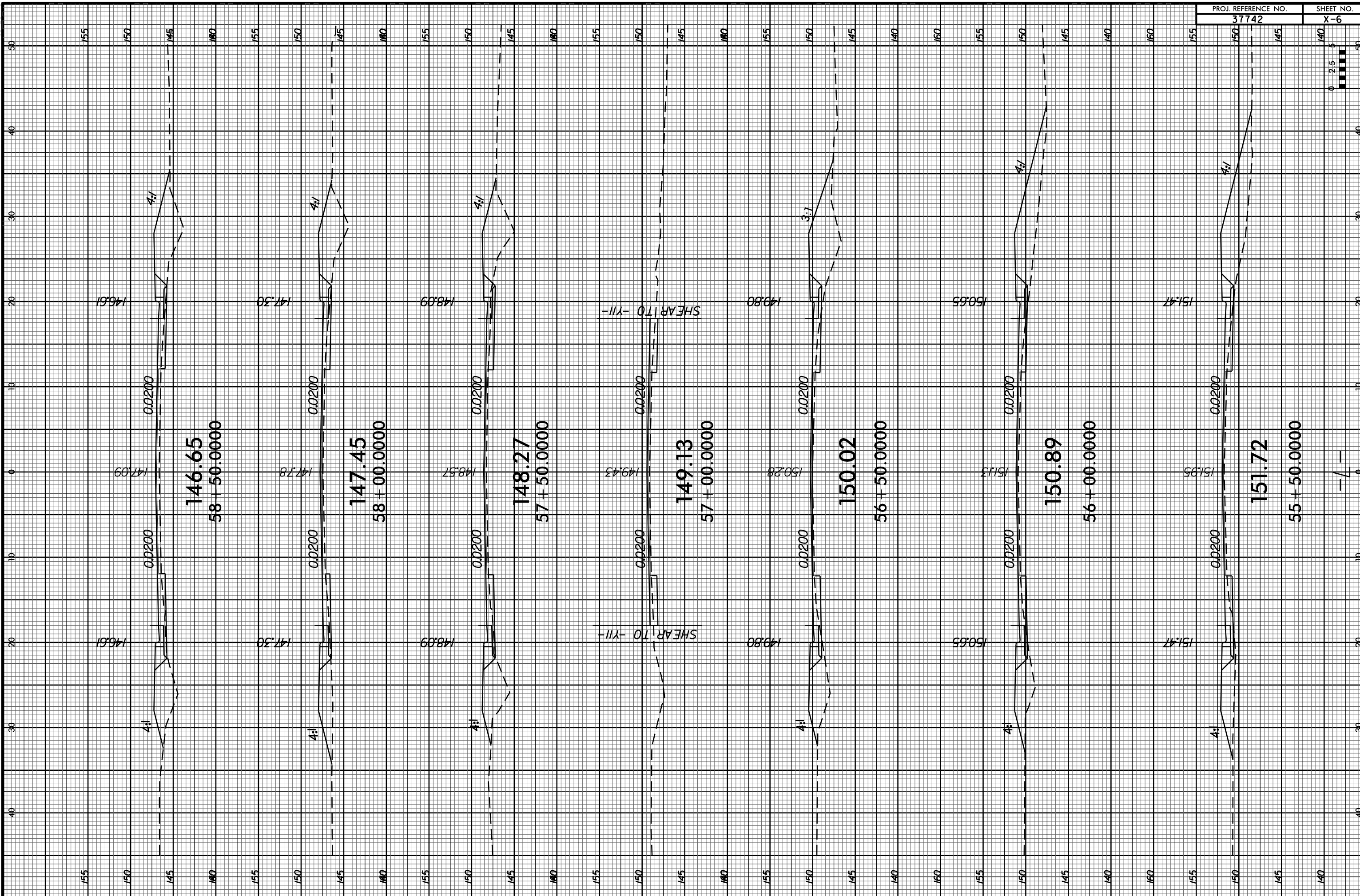


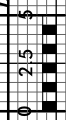
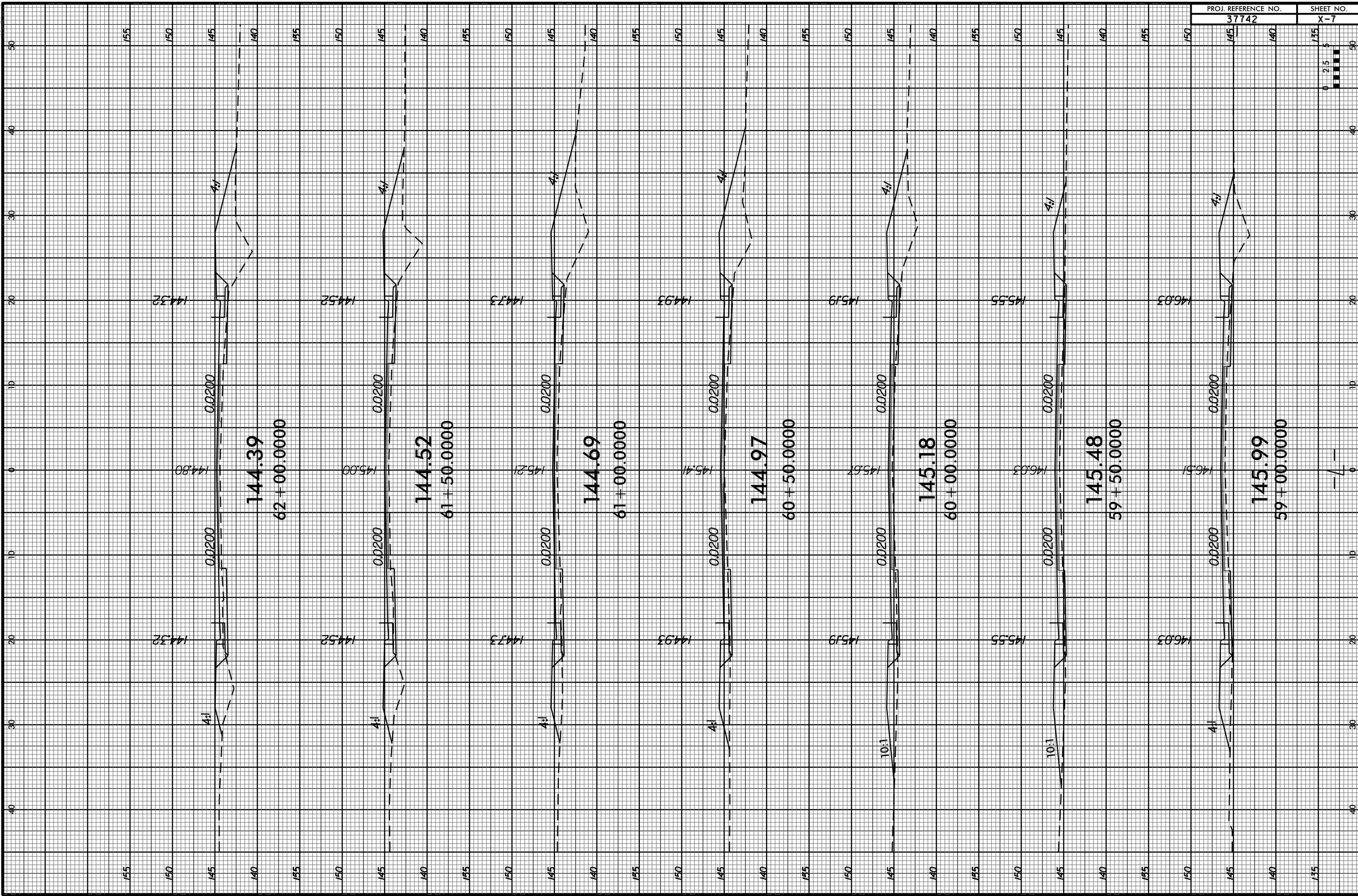


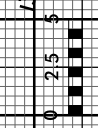
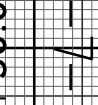
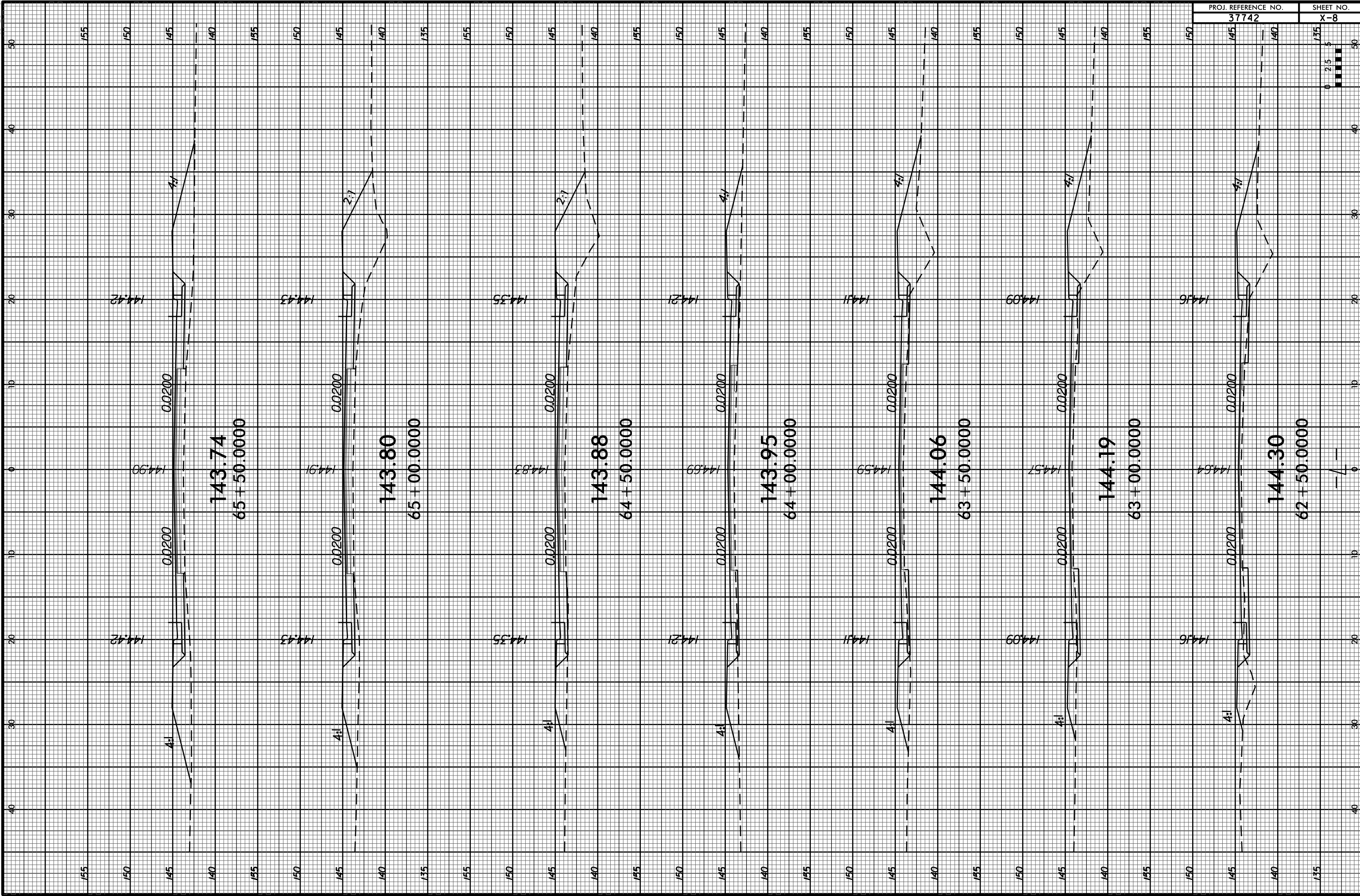


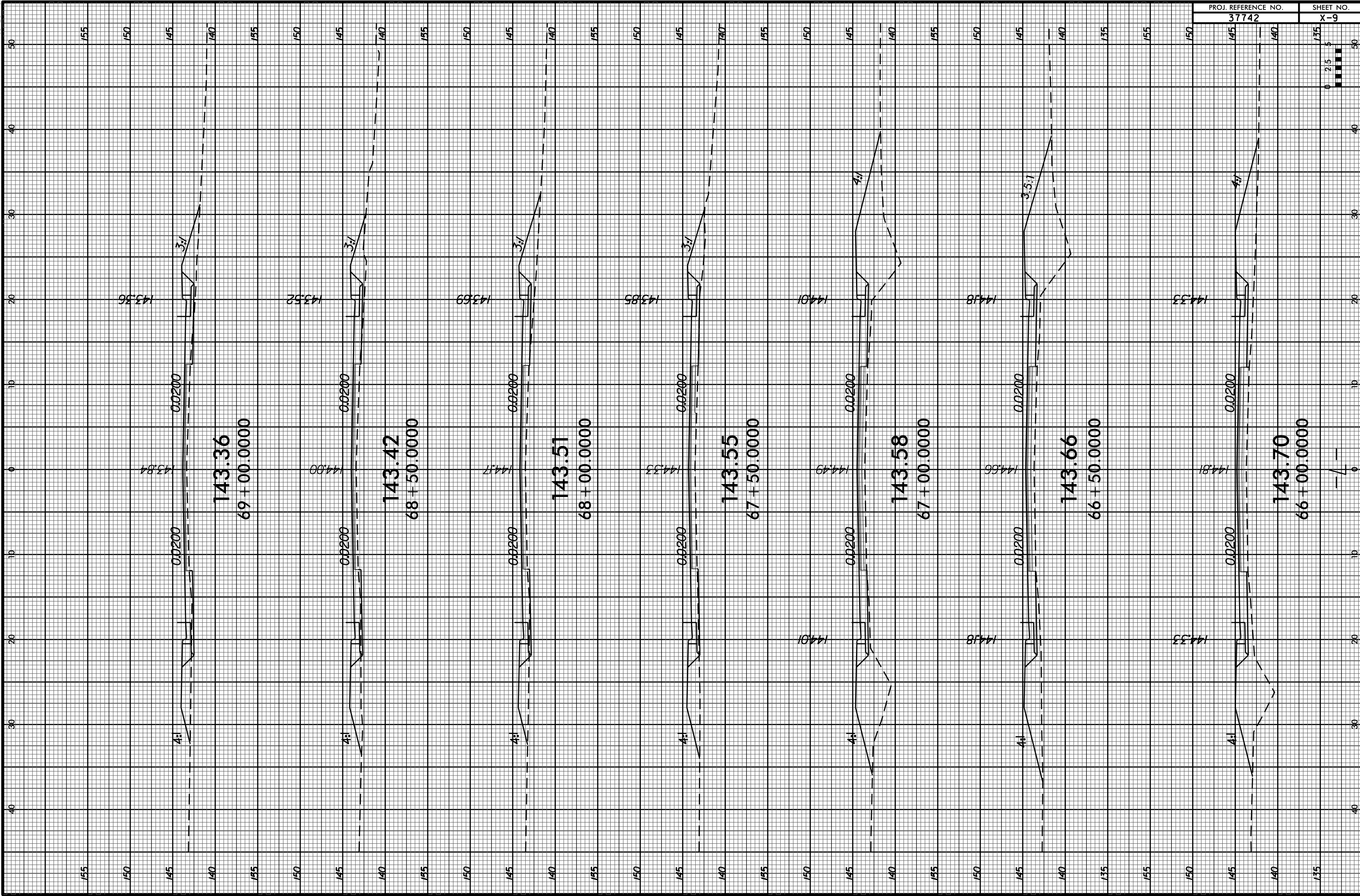
PROJ. REFERENCE NO.	SHEET NO.
37742	X-5

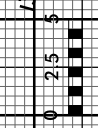
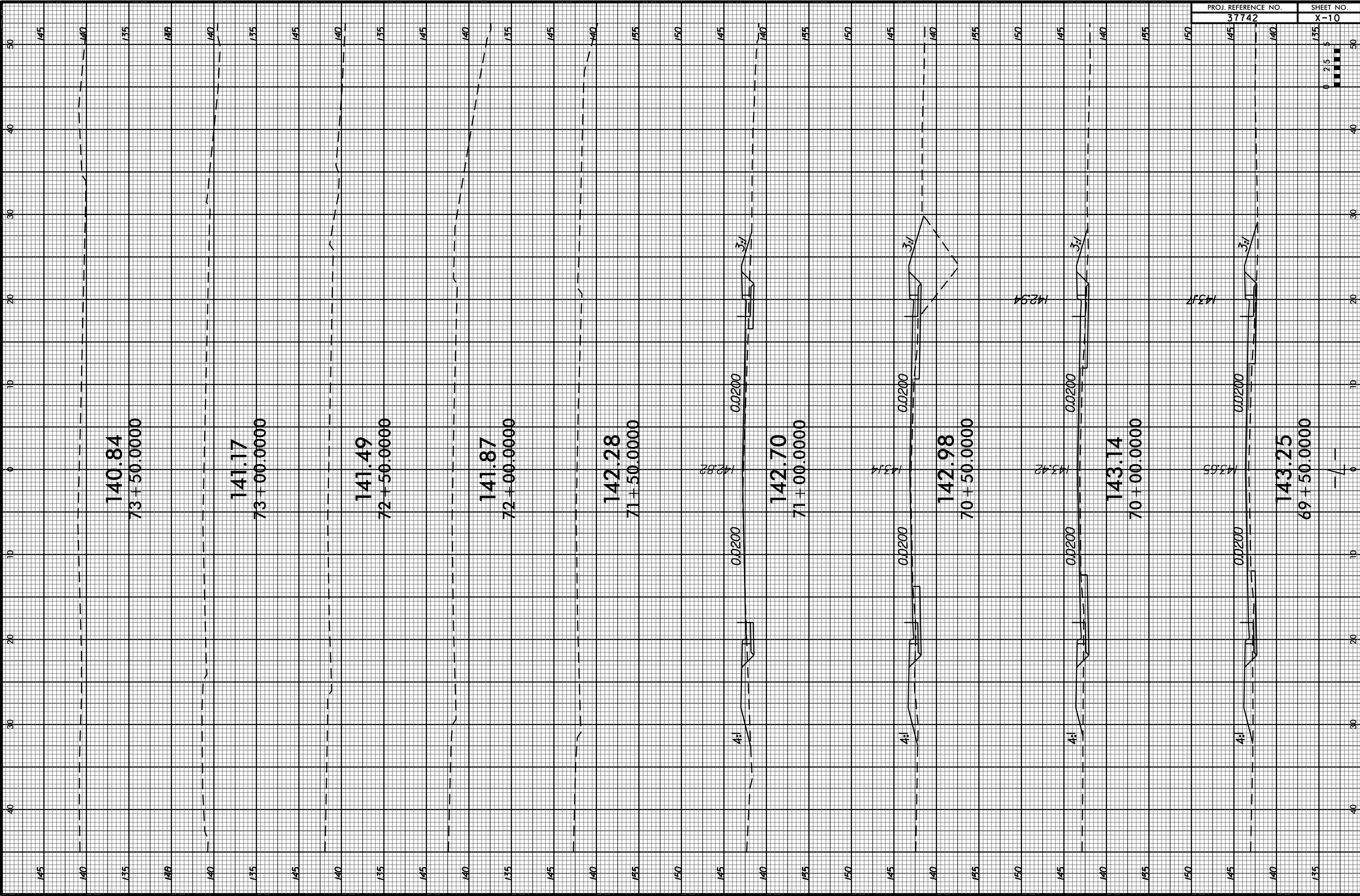




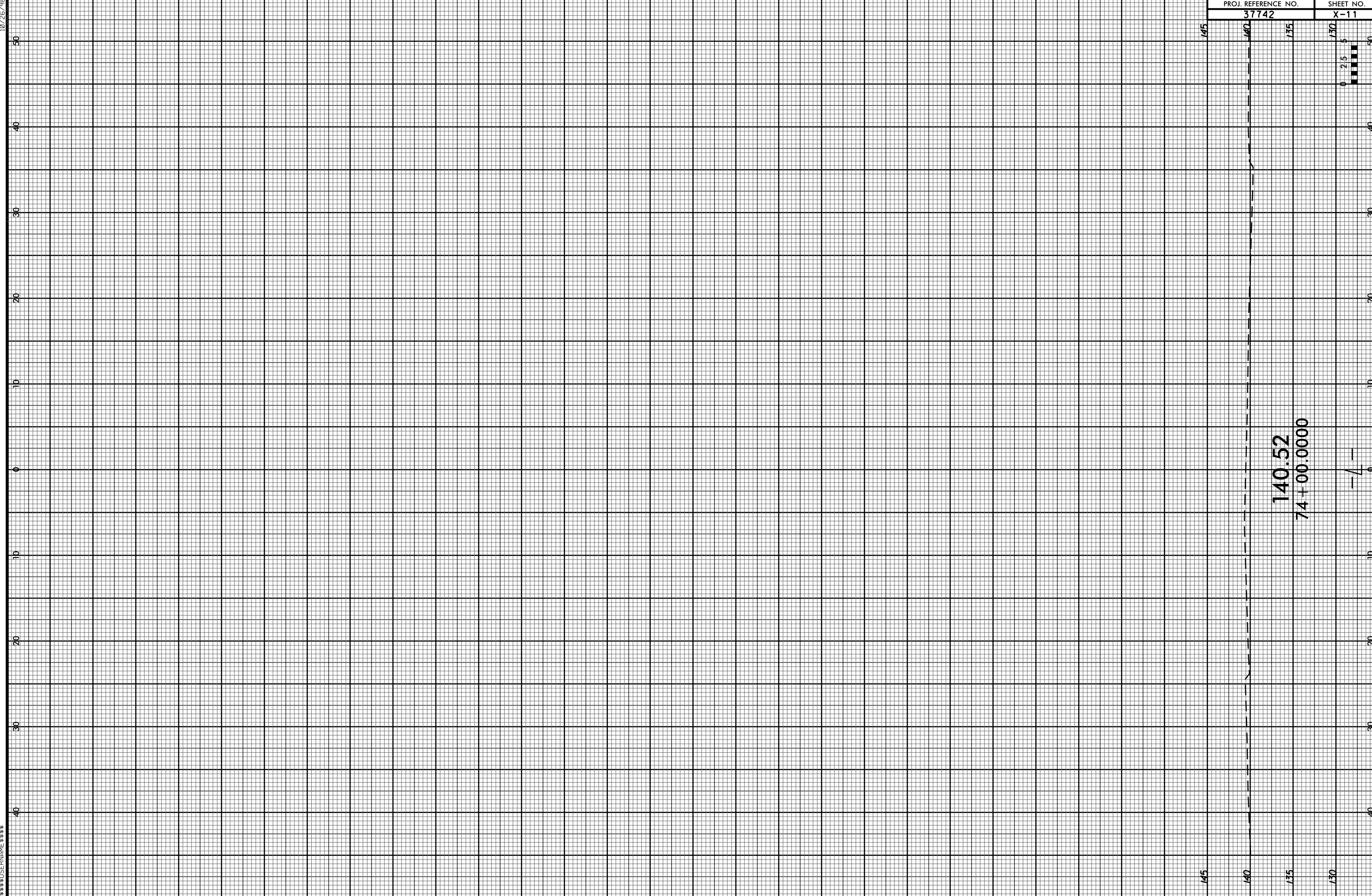












140.52  
74+00.0000

