

SHEET NUMBER	SHEET
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1-B	CONVENTIONAL SYMBOLS
2 THRU 2-A	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
3	PARCEL INDEX SHEET
3-A	SUMMARY OF EARTHWORK
3-B	SUMMARY OF DRAINAGE ITEMS
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TMP-1 THRU TMP-3	TRAFFIC CONTROL PLANS
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EC-1 THRU EC-9	EROSION CONTROL PLANS
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**GENERAL NOTES:**

2012 SPECIFICATIONS  
EFFECTIVE: 01-17-12  
REVISED: 07/30/12

**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 11.

**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.

**SUBSURFACE PLANS:**

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

**UTILITIES:**

UTILITY OWNERS ON THIS PROJECT ARE Century Link, Charter Communications, Progress Energy, PSNC Energy and Piedmont Electric.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

**RIGHT-OF-WAY MARKERS:**

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

**PROJECT NOTE:**  
IF ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THE PROCEDURES CODIFIED AT 36 CFR 800.13(b) WILL APPLY AND THE NORTH CAROLINA STATE HISTORIC PRESERVATION OFFICE AND THE CATAWBA INDIAN NATION SHALL BE CONTACTED IMMEDIATELY.

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	
200.02	Method of Clearing - Method 11
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
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
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.45	Precast Drainage Structure
846.01	Concrete Curb, Gutter and Curb & Gutter
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
852.01	Concrete Islands
852.06	Method for Placement of Drop Inlets in Concrete Islands
866.02	Woven Wire Fence - with Wood Post
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CONVENTIONAL PLAN SHEET SYMBOLS

*Note: Not to Scale*

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

**BOUNDARIES AND PROPERTY:**

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	⊙ EIP
Property Corner	-----x
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	-WLB-
Proposed Wetland Boundary	-WLB-
Existing Endangered Animal Boundary	-EAB-
Existing Endangered Plant Boundary	-EPB-
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	☠ ☠

**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:**

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	Ⓜ
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	-----
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:**

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	⊠
<b>VEGETATION:</b>	
Single Tree	⊠
Single Shrub	⊠
Hedge	-----
Woods Line	-----

Orchard	⊠
Vineyard	⊠

**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:**

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.*)	-----

**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	-----

**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.*)	-----

**GAS:**

Gas Valve	⊠
Gas Meter	⊠
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	-----

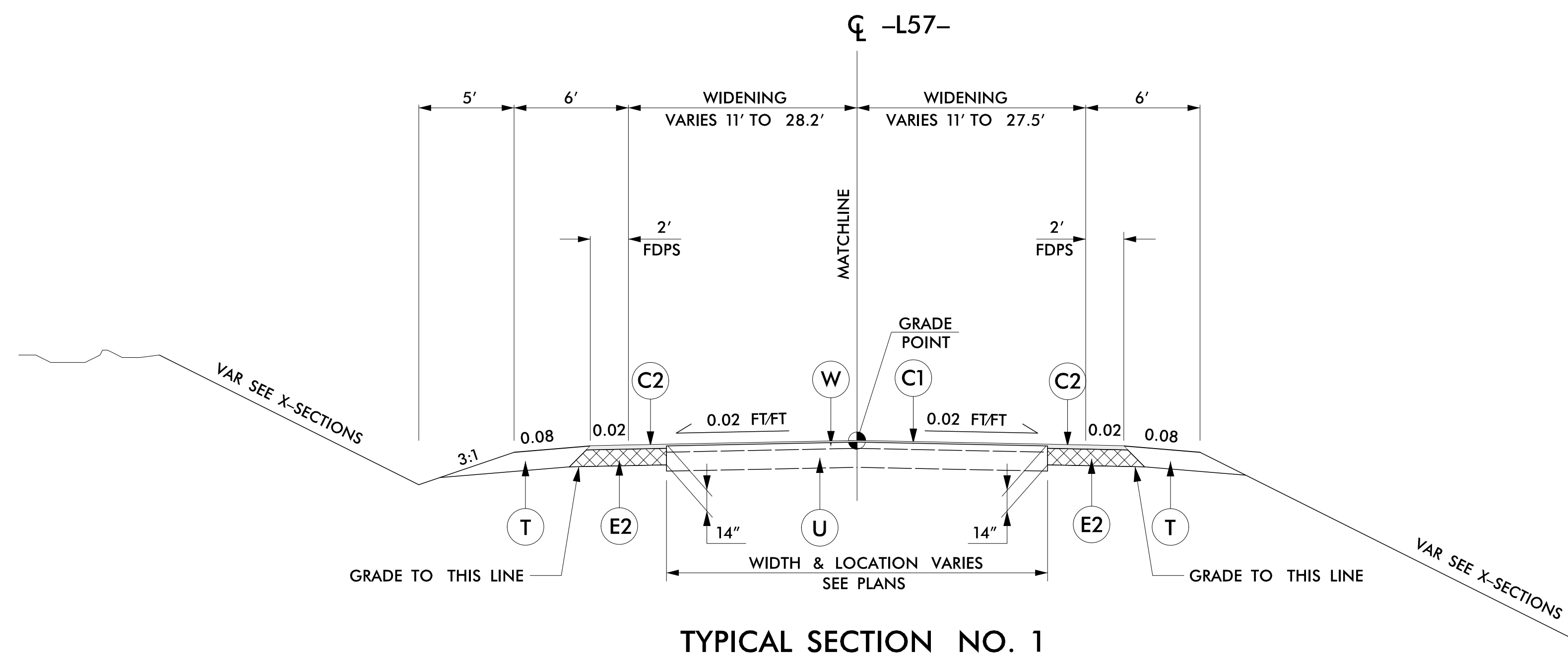
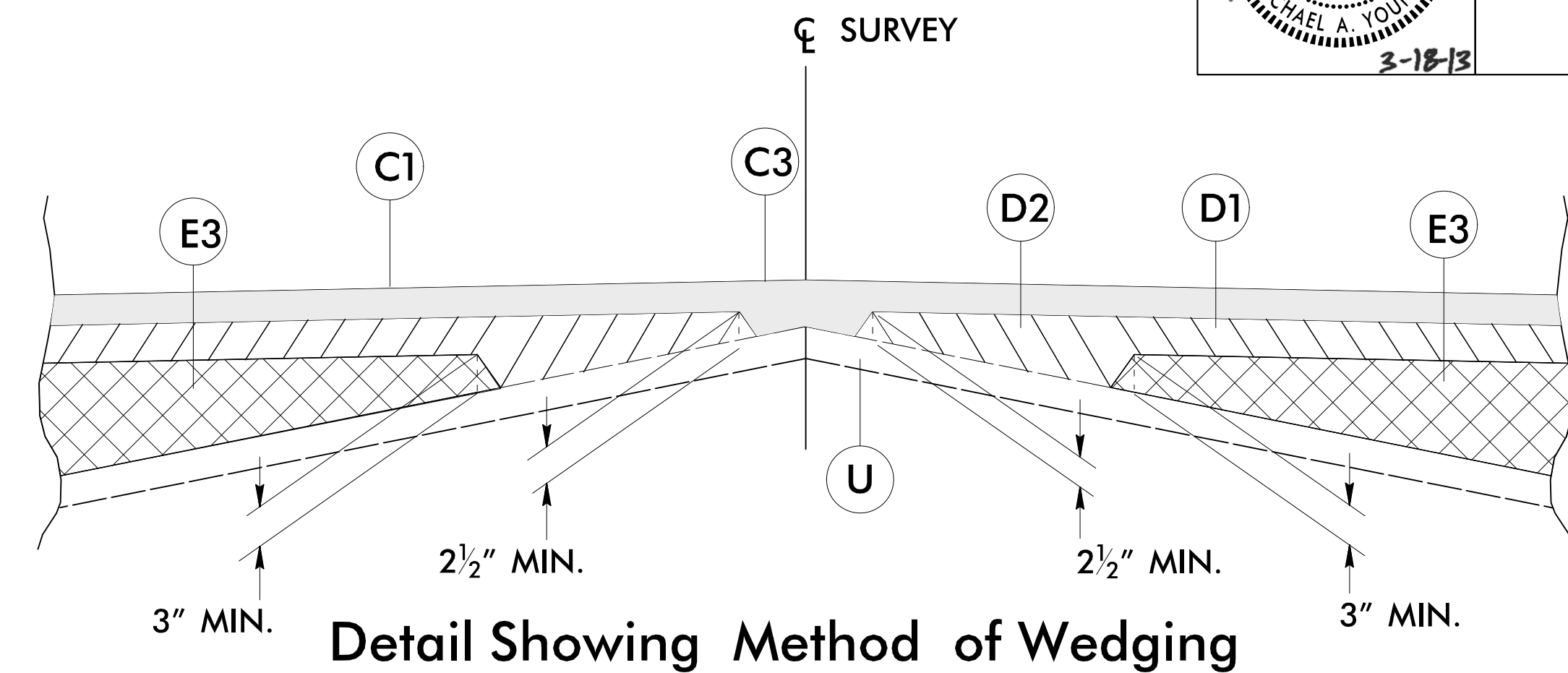
**SANITARY SEWER:**

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.*)	-----

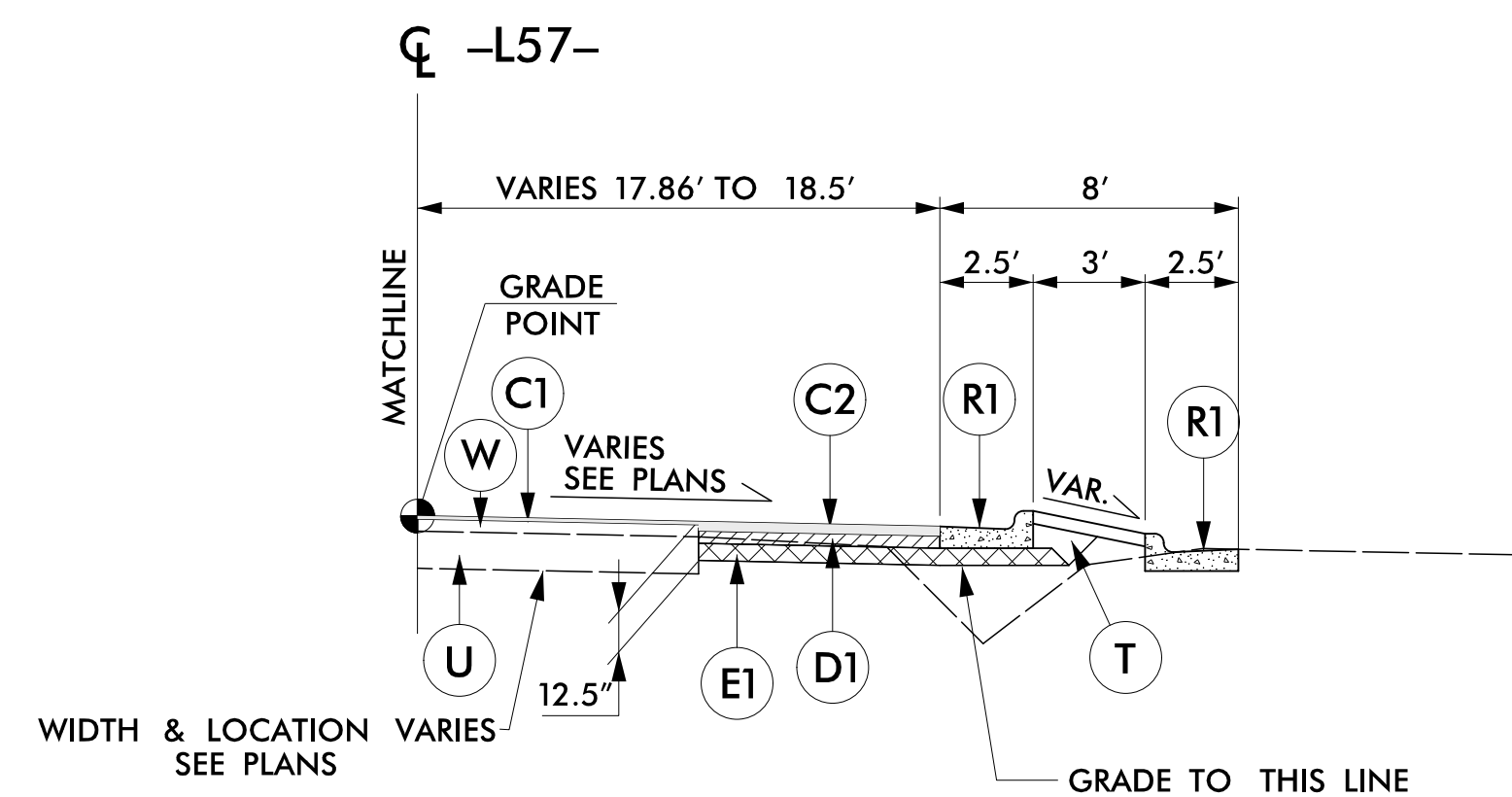
**MISCELLANEOUS:**

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	AATUR
End of Information	E.O.I.

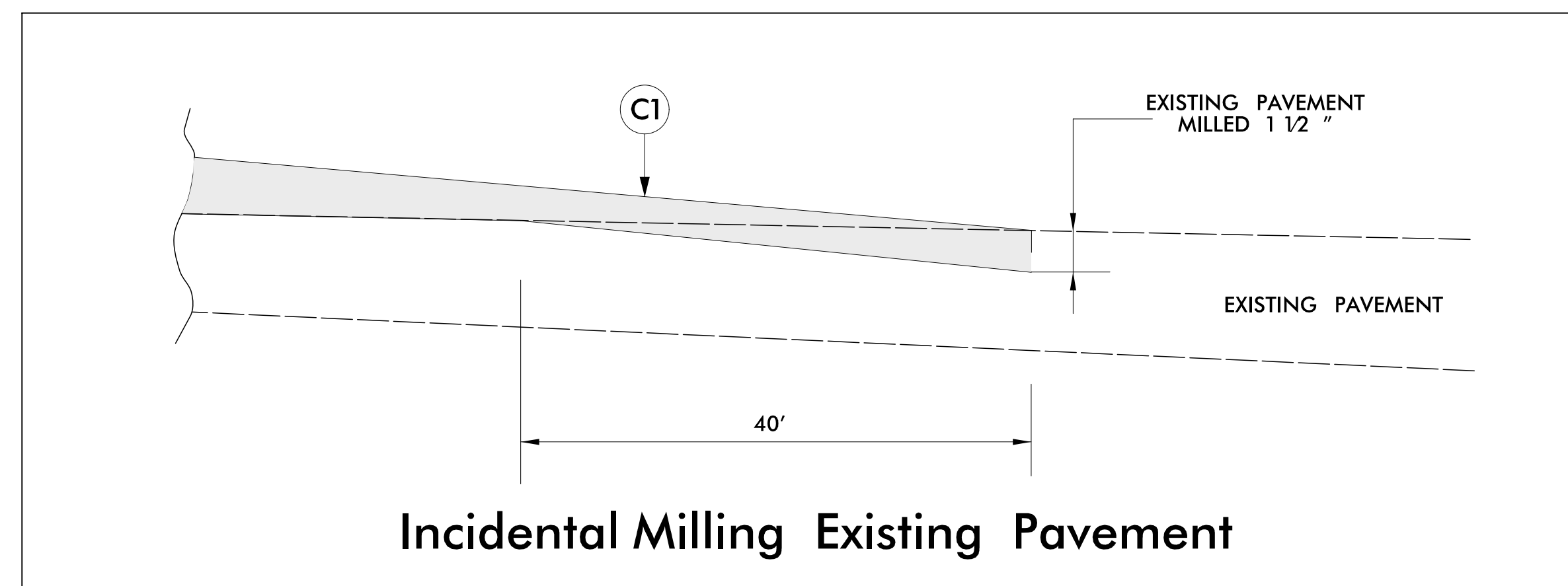
PAVEMENT SCHEDULE			
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R1	2'-6" CONCRETE CURB AND GUTTER.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1½" IN DEPTH OR GREATER THAN 2" IN DEPTH.	T	EARTH MATERIAL
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.	W	WEDGING (SEE DETAIL THIS SHEET)
E1	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.		
E2	PROP. APPROX. 11" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.		



USE TYPICAL SECTION NO. 1  
-L57- STA. 11+50.00 TO STA. 26+00.00



USE TYPICAL SECTION NO. 1A IN  
CONJUNCTION WITH TYPICAL SECTION NO. 1  
-L57- STA. 20+47.51 TO STA. 21+78.67

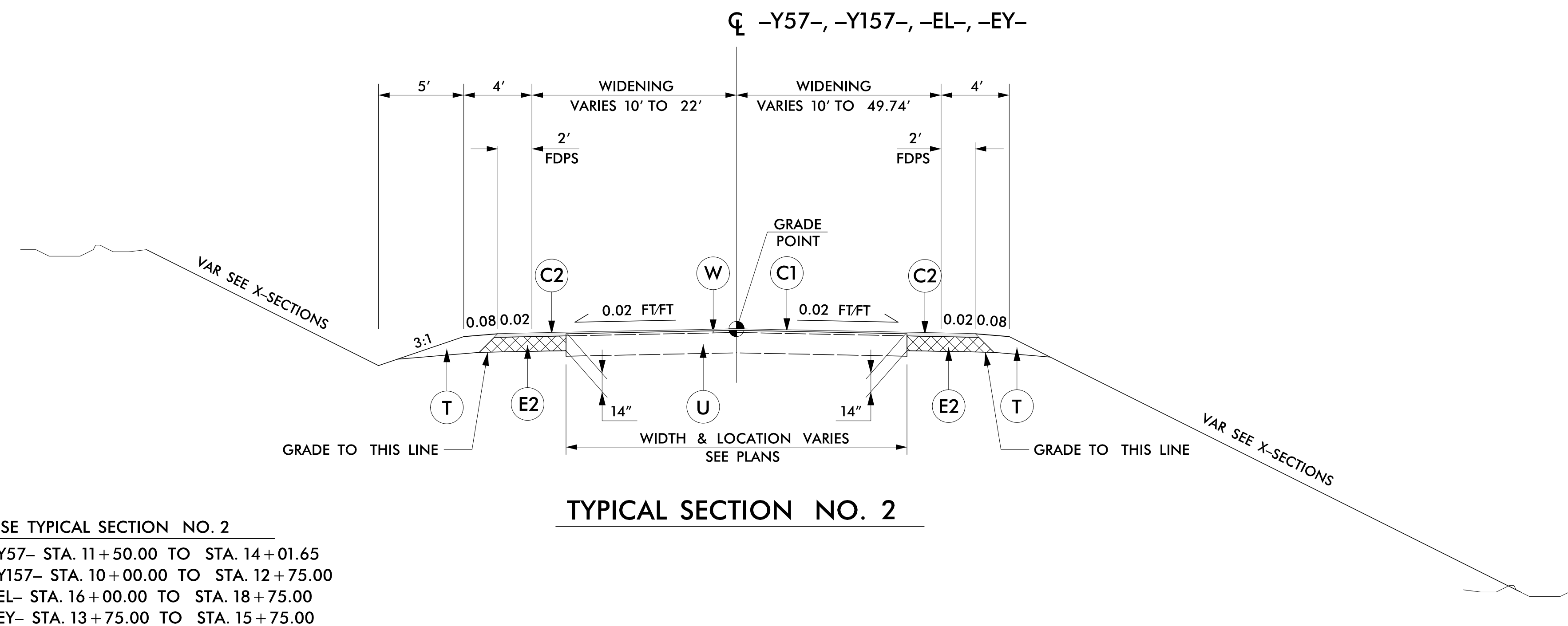






PROJECT REFERENCE NO. 36249.3130	SHEET NO. 2-A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
3-18-13	

PAVEMENT SCHEDULE			
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
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D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.	W	WEDGING (SEE DETAIL THIS SHEET)
E1	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.		
E2	PROP. APPROX. 11" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.		



# PARCEL INDEX SHEET

PARCEL NO.	SHEET NO.	PROPERTY OWNERS NAMES
1	4	LINDSAY T. WAGSTAFF, JR & JOHN H. WAGSTAFF DBA WAGSTAFF ASSOCIATES
2	4, 5	LINDSAY T. WAGSTAFF, JR & JOHN H. WAGSTAFF
3	4	GARY T. CLAYTON
4	4, 5	VICTOR ED & RUTH CLAYTON, JR.
5	5	CONCORD UNITED METHODIST CHURCH INC.
6	5	PAULA SMITH OAKLEY
7	5	WAGSTAFF ASSOCIATES
8	6	NOT USED
9	6	ARTHUR & FRANCES WILEY, JR
10	6	PATRICIA BOWES ROWLAND
11	6	ARTHUR WILEY, ETAL

REVISIONS  
 8/16/2017  
 B:\Projects\362493130.rdw\parcel1.index.p3.dwg-27-13 MAY REMOVED PUE FROM PARCELS 8,9 & 11. MODIFIED TOE ON PARCELS 9 & 11. PARCEL 8 IS NO LONGER USED.  
 USE FRANK

# SUMMARY OF EARTHWORK

## IN CUBIC YARDS

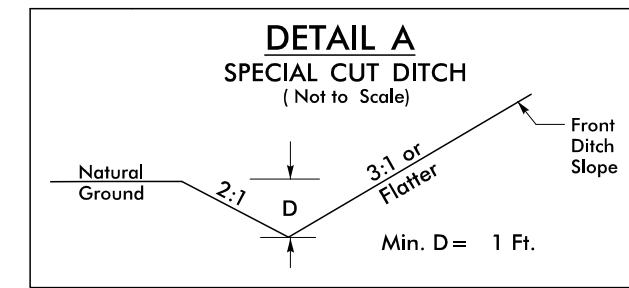
LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
<b>SUMMARY NO. 1</b>					
-L57- 11+50.00 TO 17+75.00	428		121		308
-L57- 18+75.00 TO 26+00.00	691		119		572
-Y57- 11+50.00 TO 13+25.00	166		3		163
-Y157- 10+75.00 TO 12+75.00	96		30		65
<b>SUMMARY NO. 1 SUB-TOTAL</b>	<b>1,381</b>		<b>273</b>		<b>1,108</b>
<b>SUMMARY NO. 2</b>					
-EL- 16+00.00 TO 18+75.00	277		21		256
-EY- 13+75.00 TO 15+25.00	16		22	6	
<b>SUMMARY NO. 2 SUB-TOTAL</b>	<b>293</b>		<b>43</b>	<b>6</b>	<b>256</b>
<b>PROJECT SUB-TOTALS</b>	<b>1,674</b>		<b>316</b>	<b>6</b>	<b>1,364</b>
MATERIAL FOR SHOULDER CONSTRUCTION			828	828	
WASTE IN LIEU OF BORROW				-834	-834
<b>PROJECT TOTALS</b>	<b>1,674</b>		<b>1,144</b>	<b>0</b>	<b>530</b>
<b>GRAND TOTALS</b>	<b>1,674</b>				<b>530</b>
<b>SAY</b>	<b>1,700</b>				

SHALLOW UNDERCUT = 400 CY  
 CLASS IV SUBGRADE STABILIZATION = 800 TONS

Note: Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

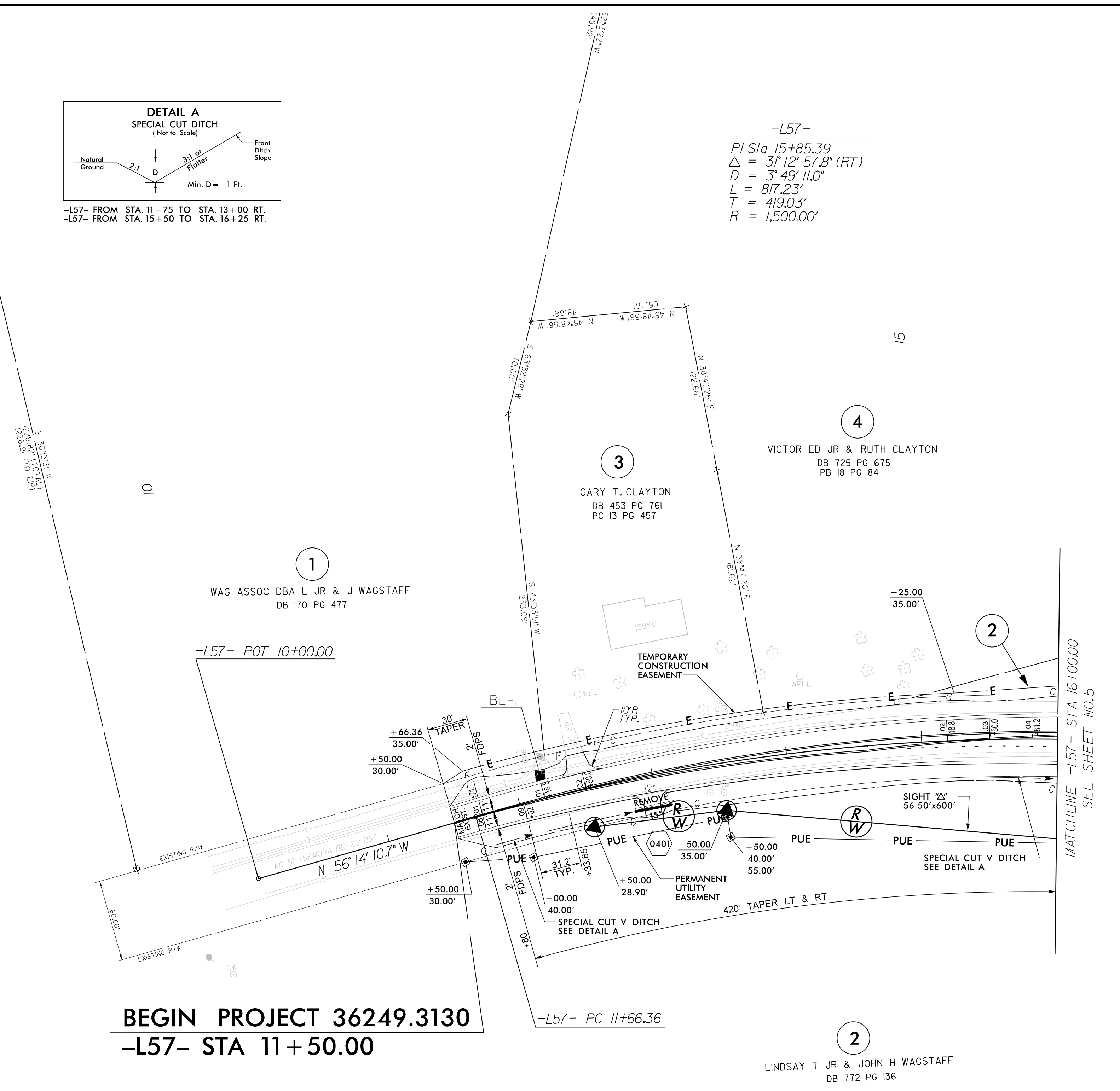
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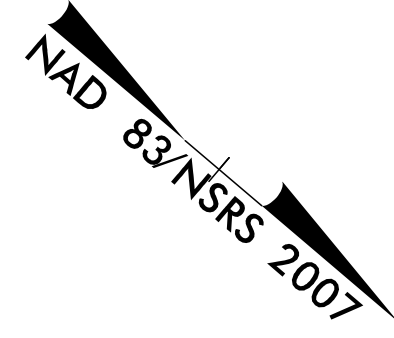


-L57- FROM STA. 11+75 TO STA. 13+00 RT.  
 -L57- FROM STA. 15+50 TO STA. 16+25 RT.

-L57-  
 PI Sta 15+85.39  
 $\Delta = 31^{\circ}12'57.8''$  (RT)  
 $D = 3^{\circ}49'11.0''$   
 $L = 817.23'$   
 $T = 419.03'$   
 $R = 1,500.00'$



**BEGIN PROJECT 36249.3130**  
**-L57- STA 11+50.00**



FOR -L57- PROFILE, SEE SHEET 7.

CONTROL POINTS

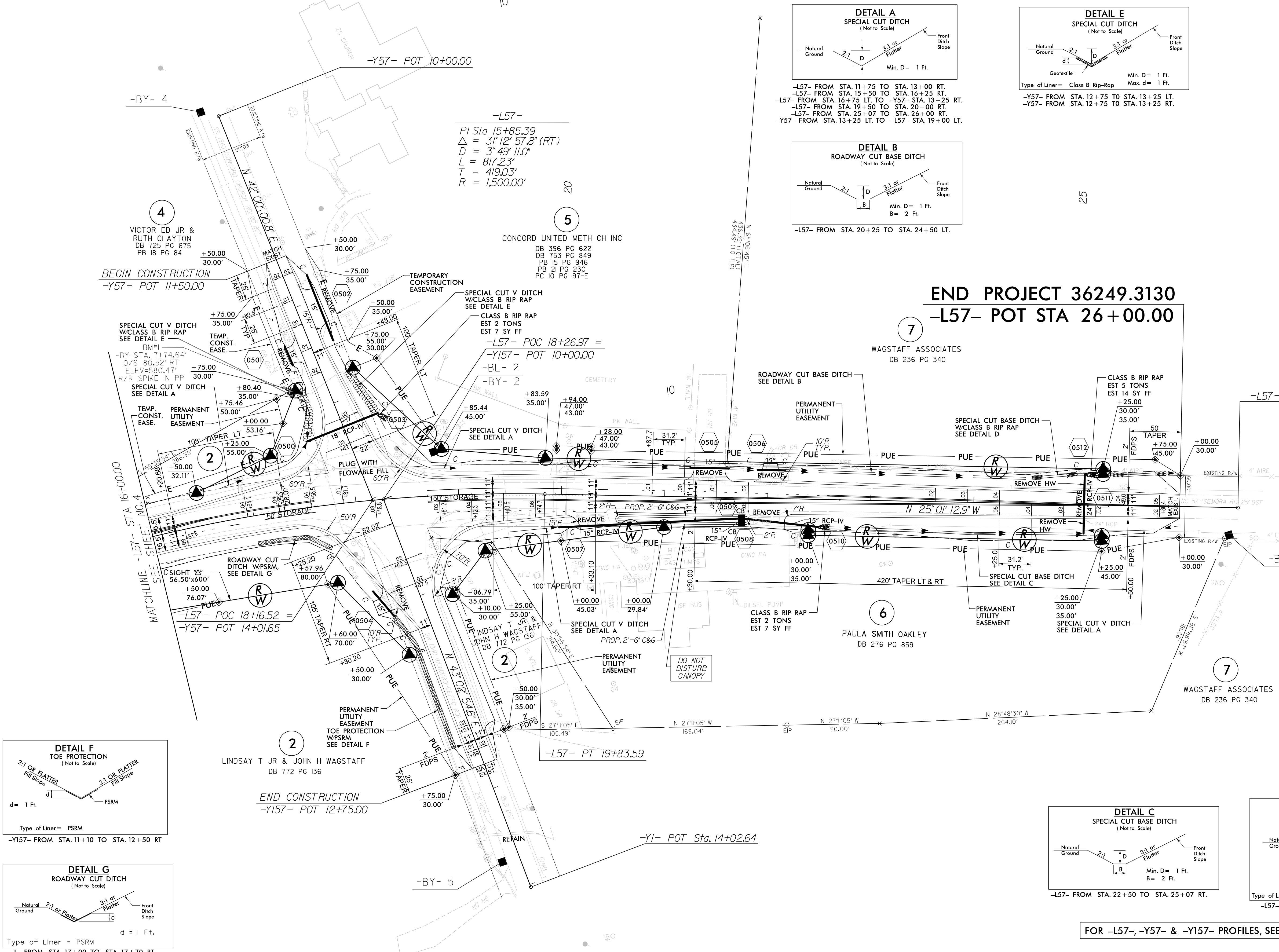
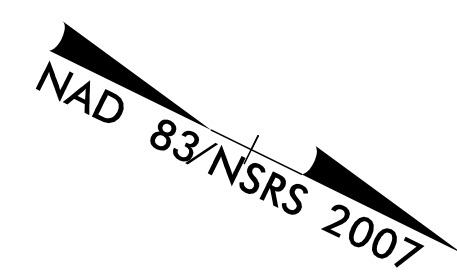
POINT	NORTHING	EASTING	ELEVATION	ALIGN/STATION	OFFSET
BL-1	980,864.8170	1,980,854.9060	581.95	-L57- 12+19.76	17.09' LT
BL-2	981,345.9040	1,980,393.9630	573.69	-L57- 18+77.82	42.66' LT
BL-3	982,074.5100	1,980,126.2710	548.96	-L57- 26+48.35	26.76' RT
BY-4	980,997.6480	1,980,197.5890	582.05	OUT OF PROJECT LIMITS	
BY-2	981,345.9040	1,980,393.9630	573.69	-Y57- 13+80.00	72.22' LT
BY-5	981,581.2450	1,980,721.8170	565.62	OUT OF PROJECT LIMITS	

**DATUM DESCRIPTION**  
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "BL-2"  
 WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 981345.904(ft) EASTING: 1980393.963(ft) ELEVATION: 573.695(ft)  
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.00006768  
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-2" TO -L- STATION 11+50.00 IS S 46° 11' 47" E 732.14'  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

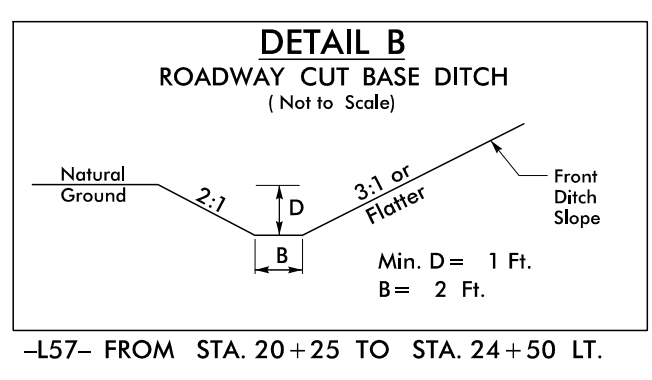
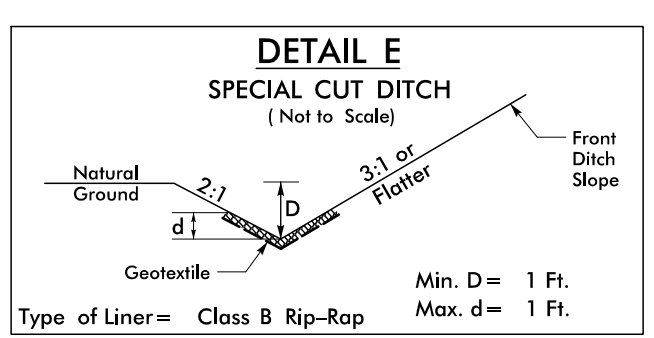
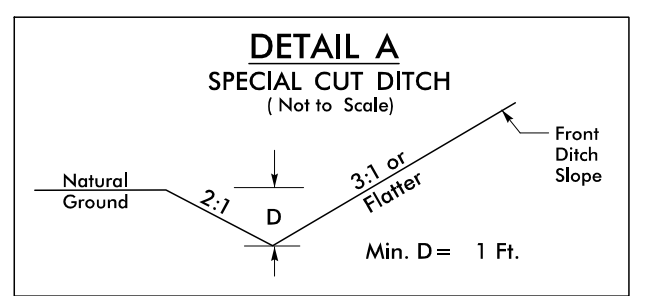
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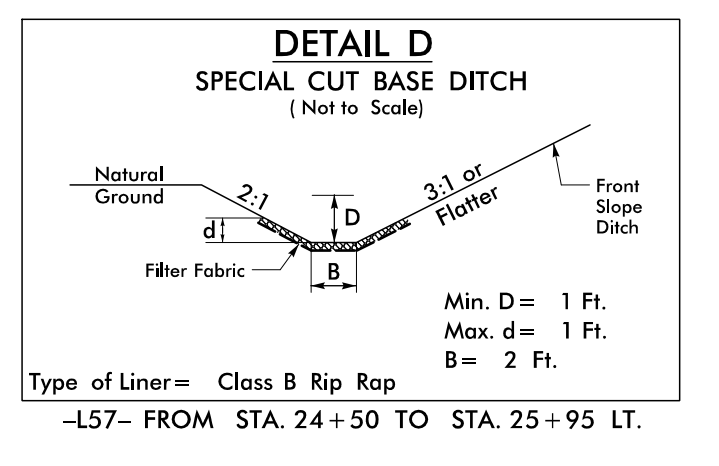
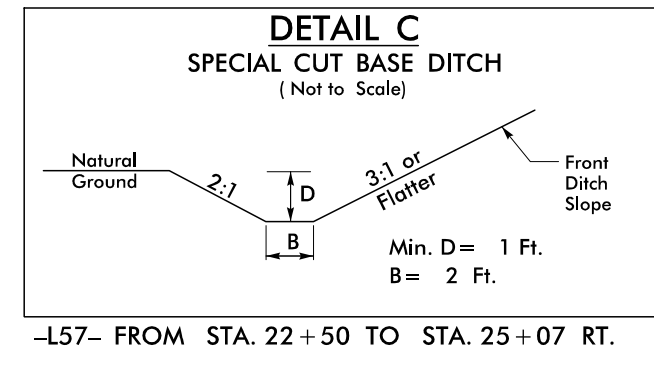
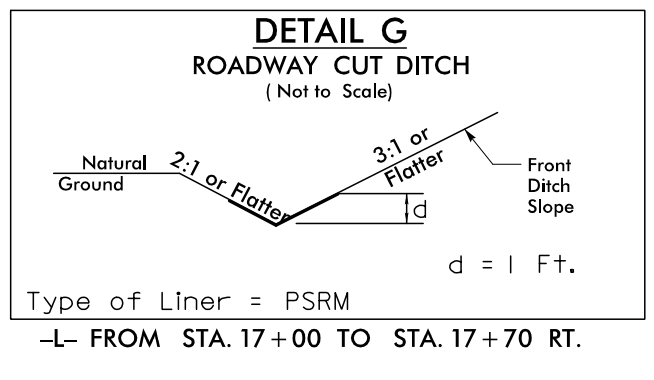
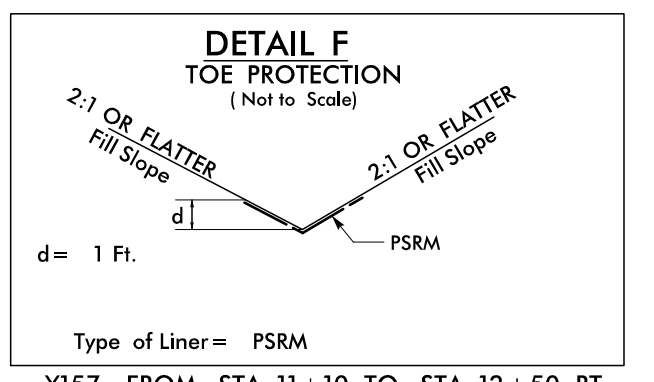
PROJECT REFERENCE NO. 36249.3130	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**-L57-**  
 PI Sta 15+85.39  
 $\Delta = 31^\circ 12' 57.8''$  (RT)  
 $D = 3^\circ 49' 11.0''$   
 $L = 817.23'$   
 $T = 419.03'$   
 $R = 1,500.00'$



**END PROJECT 36249.3130**  
**-L57- POT STA 26+00.00**



FOR -L57-, -Y57- & -Y157- PROFILES, SEE SHEET 7.

5/14/99  
 B:\6\20\B\p-oj\362493130\_rdy.p5.dgn  
 R:\P\03\362493130\362493130.dwg



5/14/99  
 B:\6\20\1\proj\36249.3130\_rdy.p6.dgn  
 10/28/2010 10:58:11 AM

-EL- PI Sta 13+48.62 Δ = 2° 31' 26.0" (LT) D = 7° 41' 02.1" L = 280.12' T = 141.73' R = 745.66'	-EL- PI Sta 16+22.23 Δ = 12° 42' 22.4" (LT) D = 7° 25' 29.8" L = 171.13' T = 85.92' R = 771.67'	-EL- PI Sta 17+97.50 Δ = 8° 41' 55.2" (LT) D = 13° 38' 38.7" L = 63.75' T = 31.94' R = 419.93'	-EL- PI Sta 19+76.33 Δ = 12° 23' 18.3" (LT) D = 6° 21' 28.6" L = 194.85' T = 97.81' R = 901.17'	-EL- PI Sta 21+85.31 Δ = 6° 17' 26.6" (LT) D = 2° 58' 08.7" L = 211.87' T = 106.04' R = 1,929.74'
--	--	---	--	--

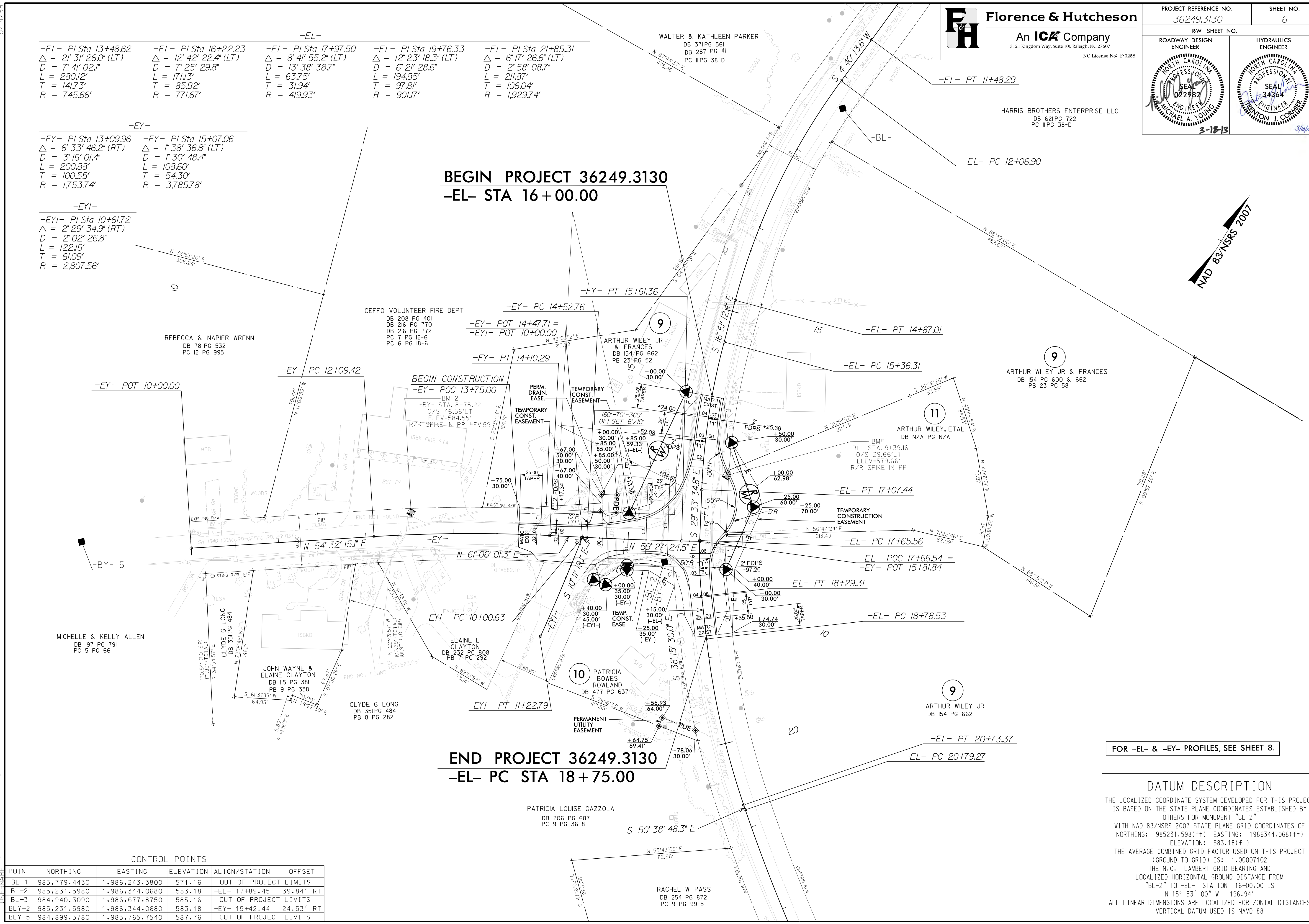
-EY- PI Sta 13+09.96 Δ = 6° 33' 46.2" (RT) D = 3° 16' 01.4" L = 200.88' T = 100.55' R = 1,753.74'	-EY- PI Sta 15+07.06 Δ = 1° 38' 36.8" (LT) D = 1° 30' 48.4" L = 108.60' T = 54.30' R = 3,785.78'
--	---

-EYI- PI Sta 10+61.72 Δ = 2° 29' 34.9" (RT) D = 2° 02' 26.8" L = 122.16' T = 61.09' R = 2,807.56'
--

**BEGIN PROJECT 36249.3130**  
**-EL- STA 16+00.00**

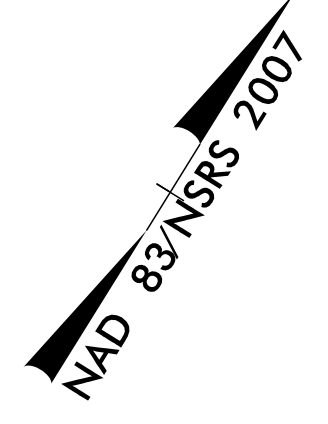
**END PROJECT 36249.3130**  
**-EL- PC STA 18+75.00**

POINT	NORTHING	EASTING	ELEVATION	ALIGN/STATION	OFFSET
BL-1	985,779.4430	1,986,243.3800	571.16	OUT OF PROJECT LIMITS	
BL-2	985,231.5980	1,986,344.0680	583.18	-EL- 17+89.45	39.84' RT
BL-3	984,940.3090	1,986,677.8750	585.16	OUT OF PROJECT LIMITS	
BLY-2	985,231.5980	1,986,344.0680	583.18	-EY- 15+42.44	24.53' RT
BLY-5	984,899.5780	1,985,765.7540	587.76	OUT OF PROJECT LIMITS	



FOR -EL- & -EY- PROFILES, SEE SHEET 8.

**DATUM DESCRIPTION**  
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "BL-2"  
 WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 985231.598(ft) EASTING: 1986344.068(ft) ELEVATION: 583.18(ft)  
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.00007102  
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-2" TO -EL- STATION 16+00.00 IS N 15° 53' 00" W 196.94'  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88



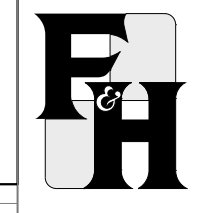


5/28/99

# -L57-

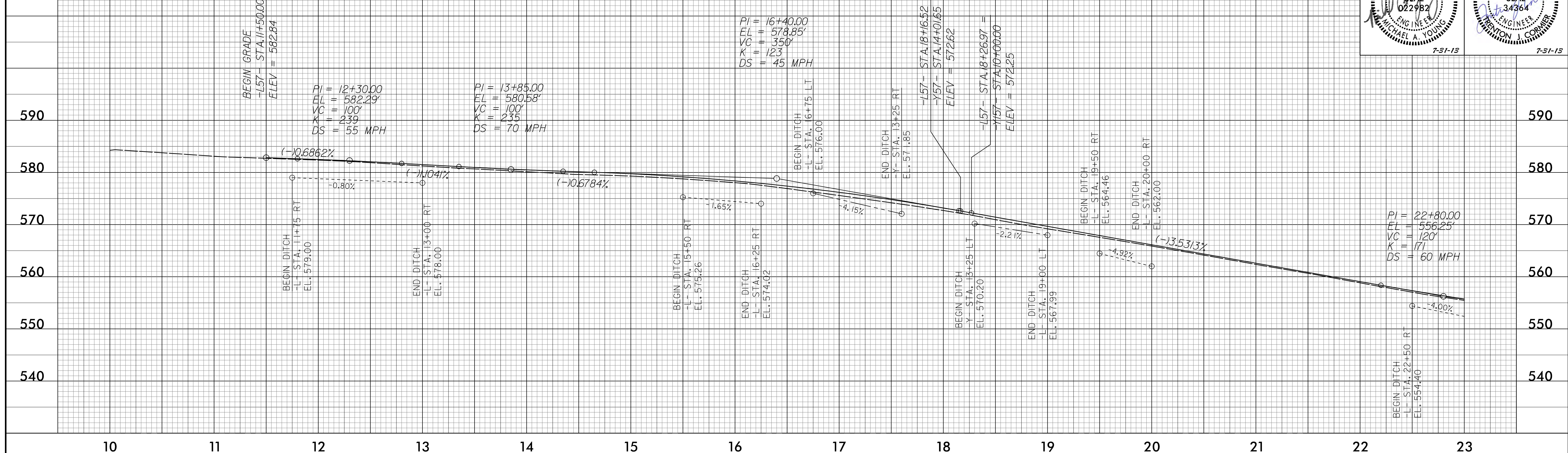
(FOR -L57- PLAN SEE SHEETS 4 & 5)

BM # 1  
-L57- STA. 17+52.98, 112.84' LT.  
RR SPIKE IN POWER POLE  
EL. 580.47



**Florence & Hutcheson**  
An ICA Company  
5121 Kingdom Way, Suite 100 Raleigh, NC 27607  
NC License No. F-0258

PROJECT REFERENCE NO. 36249.3130	SHEET NO. 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**PIPE HYDRAULIC DATA**  
24" RCP Sta. 25+07

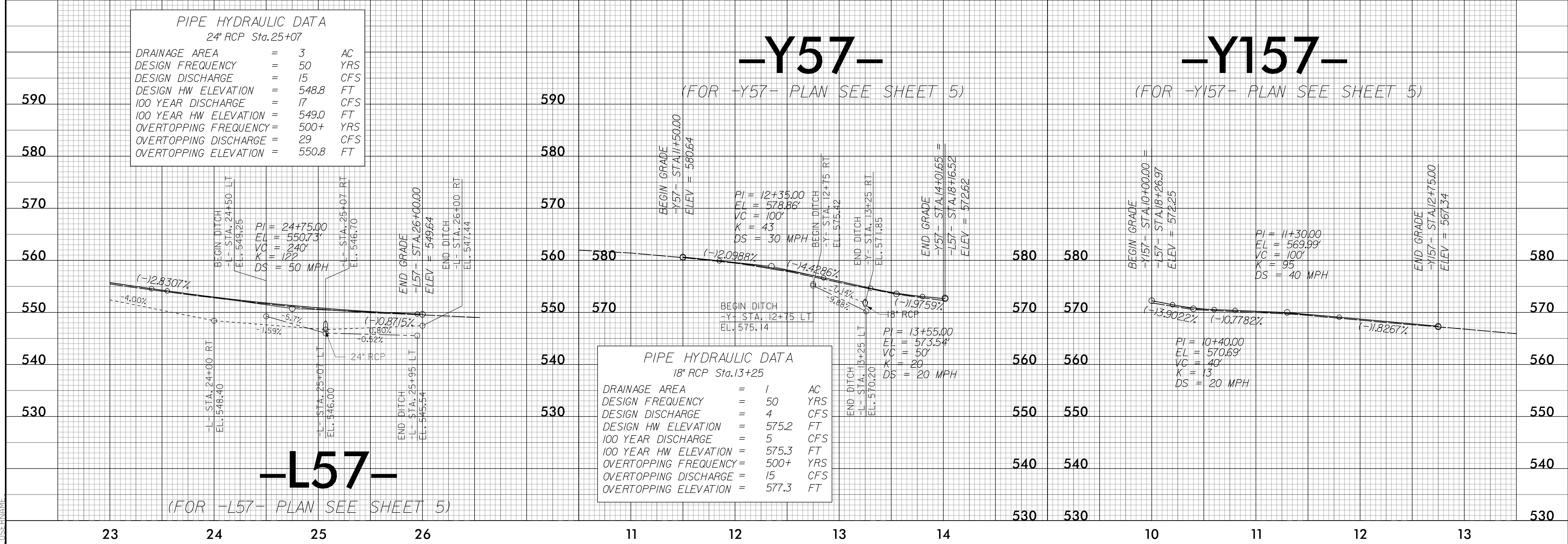
DRAINAGE AREA	=	3	AC
DESIGN FREQUENCY	=	50	YRS
DESIGN DISCHARGE	=	15	CFS
DESIGN HW ELEVATION	=	548.8	FT
100 YEAR DISCHARGE	=	17	CFS
100 YEAR HW ELEVATION	=	549.0	FT
OVERTOPPING FREQUENCY	=	500+	YRS
OVERTOPPING DISCHARGE	=	29	CFS
OVERTOPPING ELEVATION	=	550.8	FT

# -Y57-

(FOR -Y57- PLAN SEE SHEET 5)

# -Y157-

(FOR -Y157- PLAN SEE SHEET 5)



**PIPE HYDRAULIC DATA**  
18" RCP Sta. 13+25

DRAINAGE AREA	=	1	AC
DESIGN FREQUENCY	=	50	YRS
DESIGN DISCHARGE	=	4	CFS
DESIGN HW ELEVATION	=	575.2	FT
100 YEAR DISCHARGE	=	5	CFS
100 YEAR HW ELEVATION	=	575.3	FT
OVERTOPPING FREQUENCY	=	500+	YRS
OVERTOPPING DISCHARGE	=	15	CFS
OVERTOPPING ELEVATION	=	577.3	FT

# -L57-

(FOR -L57- PLAN SEE SHEET 5)

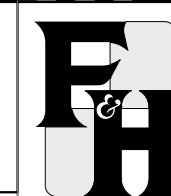
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USER:RAM

5/28/99

BM # 2  
-EL- STA. 12+52.71, 25.38' LT.  
RR SPIKE IN POWER POLE #EVI59  
EL. 584.55

**-EL-**  
(FOR -EL- PLAN SEE SHEET 6)

BM # 1  
-EL- STA. 16+89.45, 27.38' LT.  
RR SPIKE IN POWER POLE  
EL. 579.66



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An ICA Company

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NC License No. F-0258

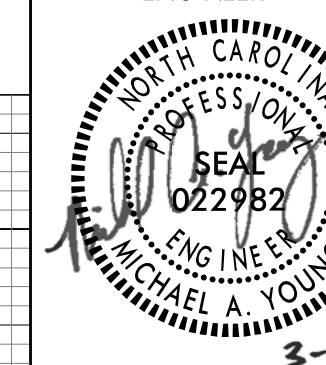
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36249.3130

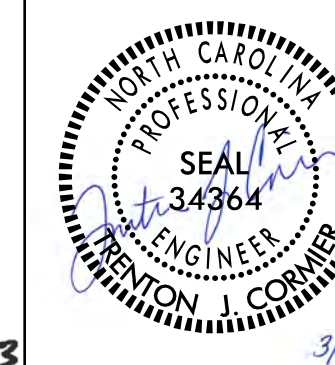
SHEET NO.

8

ROADWAY DESIGN  
ENGINEER

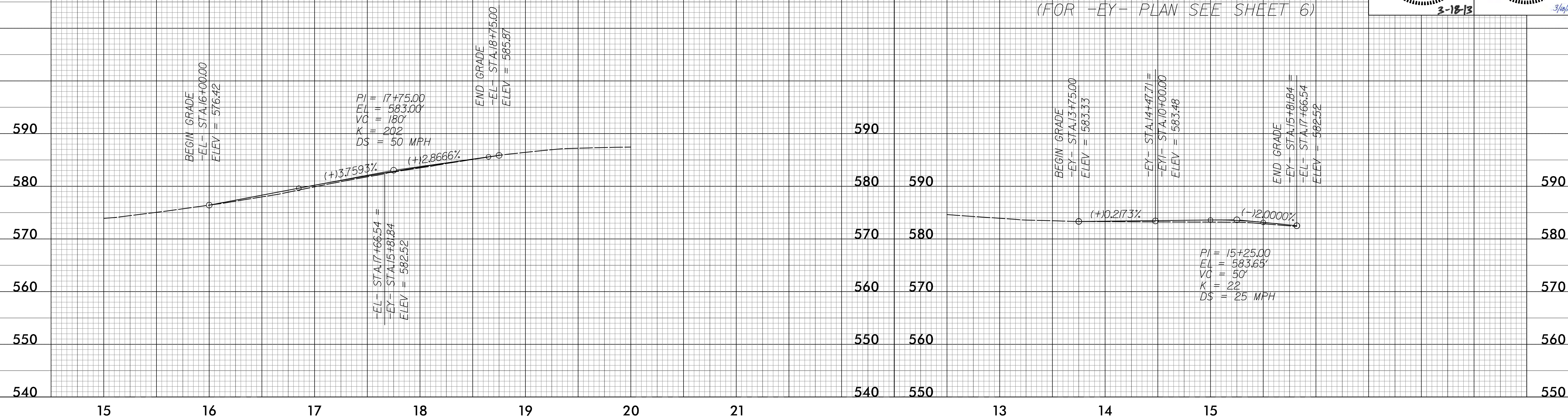


HYDRAULICS  
ENGINEER



**-EY-**

(FOR -EY- PLAN SEE SHEET 6)



B:\6/2017\Projects\36249.3130\_rdy\_p8.dgn  
USER:RAM







# 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 WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS

# LEGEND

## GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- CONTINUING CONSTRUCTION
- REMOVAL

## TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
<u>PAINT (4")</u>	
PA	WHITE EDGELINE
PI	DOUBLE YELLOW CENTERLINE
<u>PAINT (24")</u>	
P2	WHITE STOP BAR

## TRAFFIC CONTROL DEVICES

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

## TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

## SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

## PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

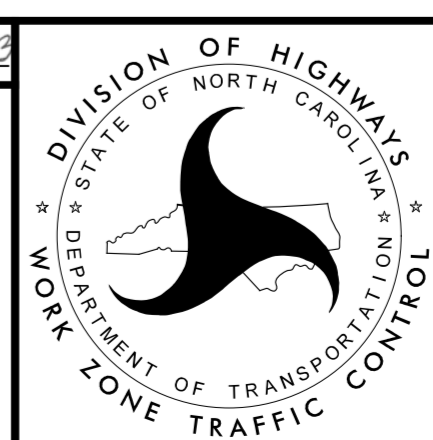
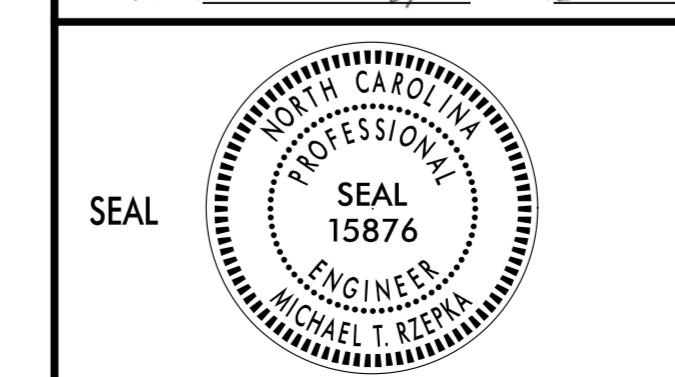
## PAVEMENT MARKERS

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

## PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

APPROVED: *Michael T. Rzepka* DATE: 3-18-13



ROADWAY STANDARD DRAWINGS,  
 LEGEND &  
 TEMPORARY PAVEMENT  
 MARKING SCHEDULE

# GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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.

**TIME RESTRICTIONS**

A) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

ALL ROUTES

HOLIDAY

1. FOR UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 4 p.m. DECEMBER 31st AND 9 a.m. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9 a.m. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 4 p.m. THURSDAY AND 9 a.m. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 4 p.m. FRIDAY TO 9 a.m. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 4 p.m. THE DAY BEFORE INDEPENDENCE DAY AND 9 a.m. THE DAY AFTER INDEPENDENCE DAY.  
  
IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 4 p.m. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9 a.m. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 4 p.m. FRIDAY AND 9 a.m. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 4 p.m. TUESDAY AND 9 a.m. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 4 p.m. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9 a.m. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR EVENTS THAT ARE SIGNIFICANT TRAFFIC GENERATORS FROM ONE (1) HOUR BEFORE THE EVENT TO ONE (1) HOUR AFTER THE END OF THE EVENT, AS DIRECTED BY THE ENGINEER.

HOLIDAYS AND HOLIDAY WEEKENDS SHALL INCLUDE NEW YEAR'S, EASTER, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, THANKSGIVING AND CHRISTMAS. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO THAT LANE CLOSURES ARE NOT REQUIRED DURING THESE PERIODS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THE TIME OF AVAILABILITY FOR THIS INTERMEDIATE CONTRACT WORK SHALL BE THE TIME THE CONTRACTOR BEGINS TO INSTALL ALL TRAFFIC CONTROL DEVICES FOR LANE CLOSURES ACCORDING TO THE TIME RESTRICTIONS LISTED HEREIN.

THE COMPLETION TIME FOR THIS INTERMEDIATE CONTRACT WORK SHALL BE THE TIME THE CONTRACTOR IS REQUIRED TO COMPLETE THE REMOVAL OF ALL TRAFFIC CONTROL DEVICES FOR LANE CLOSURES ACCORDING TO THE TIME RESTRICTIONS STATED HEREIN AND PLACE TRAFFIC IN THE EXISTING PATTERN.

THE LIQUIDATION DAMAGES ARE TWO HUNDRED FIFTY DOLLARS (\$250.00) PER FIFTEEN MINUTES OR PORTION THEREOF.

B) DO NOT STOP TRAFFIC EXCEPT AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
ALL ROUTES	MONDAY THRU FRIDAY 9:00 AM TO 4:00 PM	15 MIN., TIE-IN

C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

**LANE AND SHOULDER CLOSURE REQUIREMENTS**

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.  
  
WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON NC 57 (SEMORA RD.), McGHEES MILL RD. & CONCORD-CEFFO RD.

**PAVEMENT EDGE DROP OFF REQUIREMENTS**

- J) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:  
  
BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.  
  
BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.  
  
BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- K) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350 FEET IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

**TRAFFIC PATTERN ALTERATIONS**

- L) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

**SIGNING**

- M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

**TRAFFIC CONTROL DEVICES**

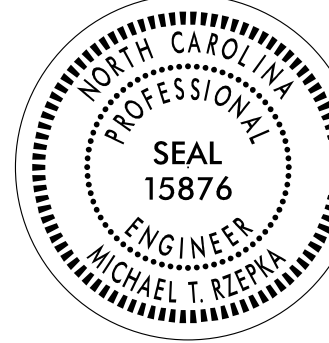
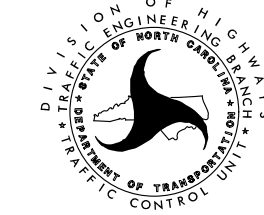
- O) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADIUS, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- P) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:  
  

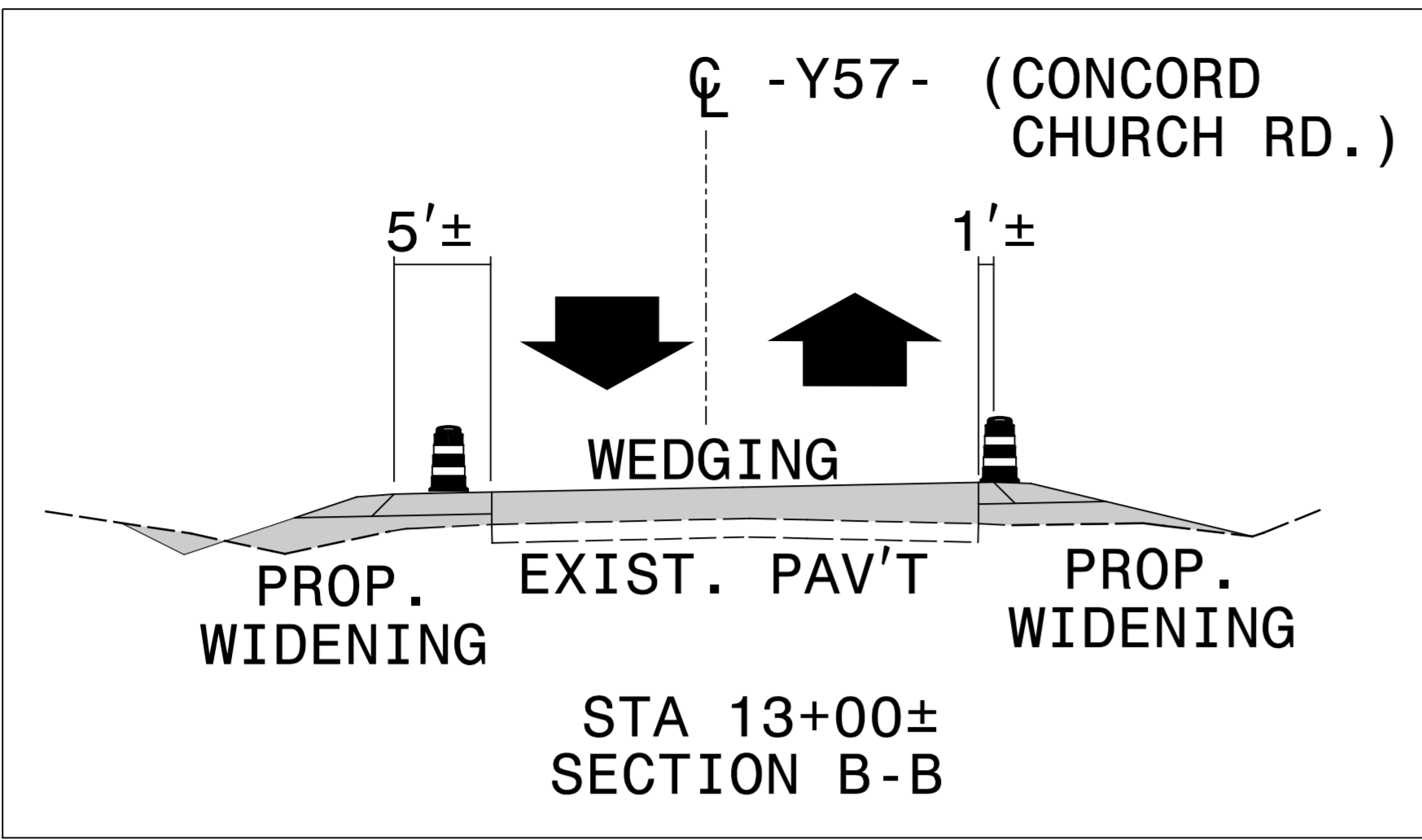
ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	
- Q) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- R) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- S) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

**MISCELLANEOUS**

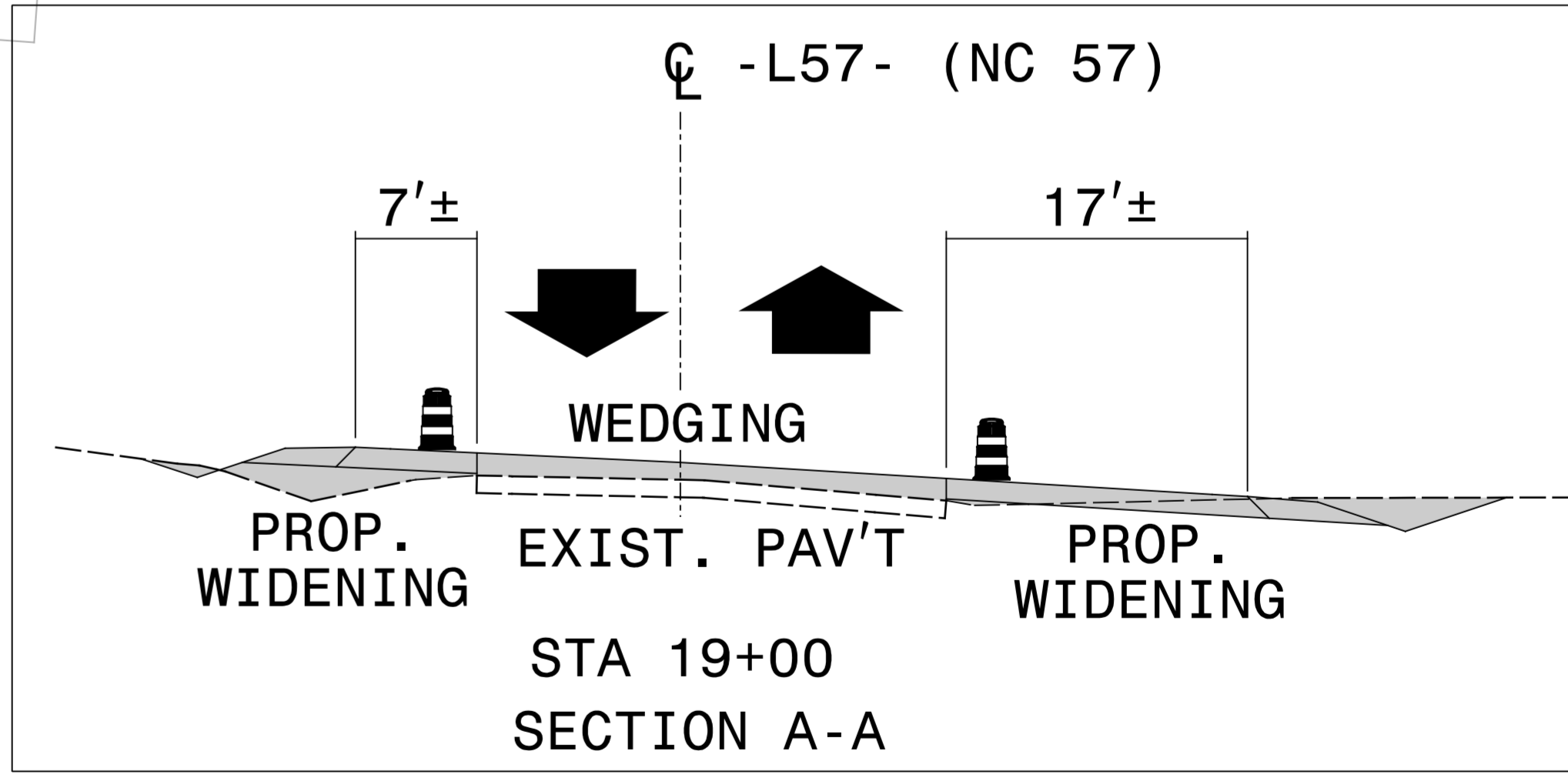
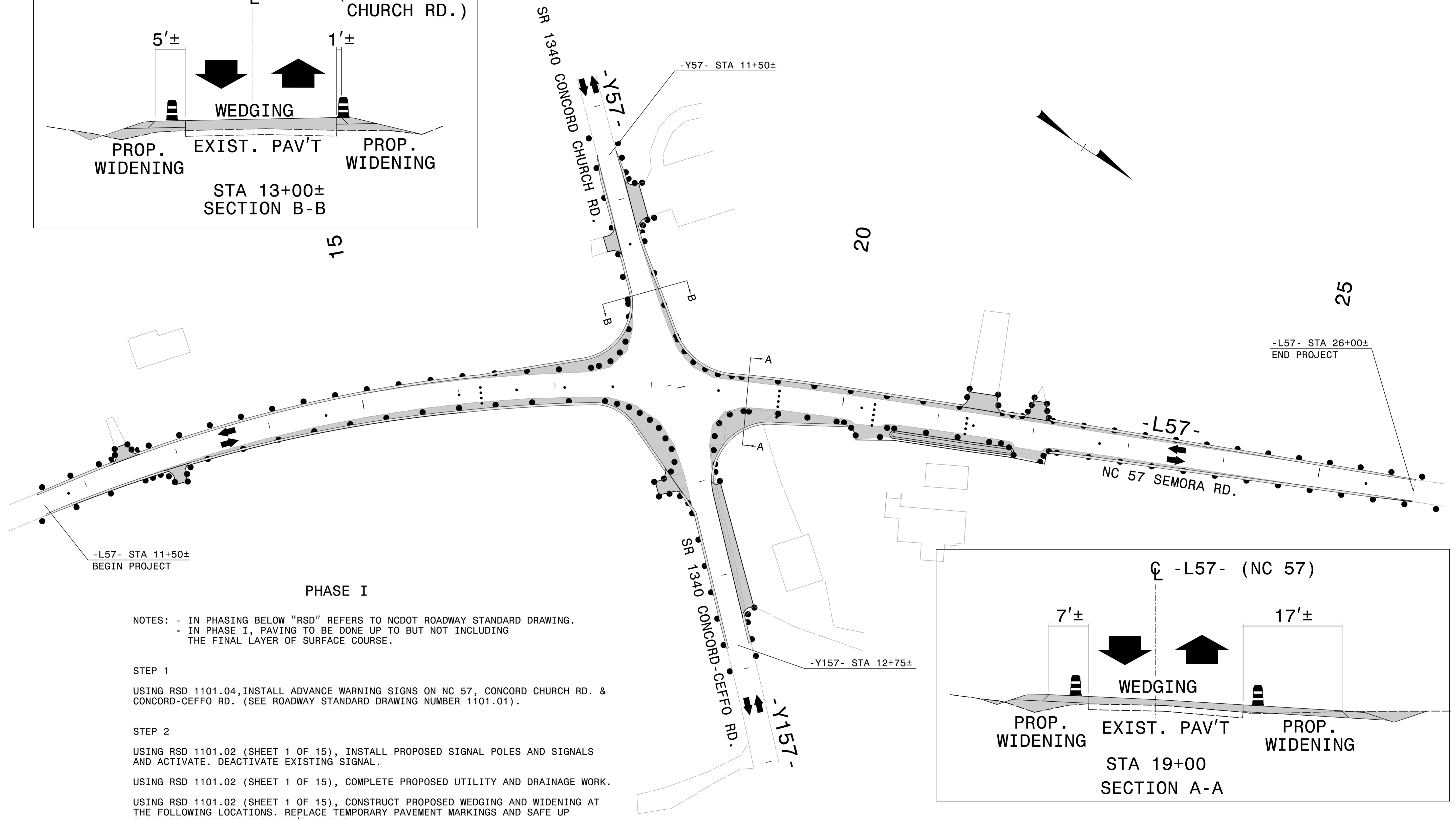
- T) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

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7/31/2013 4:23:39 PM

APPROVED: <i>Michael E. Rydzko</i> DATE: 7-31-13	<b>TRANSPORTATION OPERATIONS PLAN</b>							
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	DATE: MAR '13							
	DESIGN BY: YTM							
	REVIEWED BY: MTR							
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15



**PHASE I**

NOTES: - IN PHASING BELOW "RSD" REFERS TO NCDOT ROADWAY STANDARD DRAWING.  
 - IN PHASE I, PAVING TO BE DONE UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

**STEP 1**

USING RSD 1101.04, INSTALL ADVANCE WARNING SIGNS ON NC 57, CONCORD CHURCH RD. & CONCORD-CEFFO RD. (SEE ROADWAY STANDARD DRAWING NUMBER 1101.01).

**STEP 2**

USING RSD 1101.02 (SHEET 1 OF 15), INSTALL PROPOSED SIGNAL POLES AND SIGNALS AND ACTIVATE. DEACTIVATE EXISTING SIGNAL.

USING RSD 1101.02 (SHEET 1 OF 15), COMPLETE PROPOSED UTILITY AND DRAINAGE WORK.

USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT PROPOSED WEDGING AND WIDENING AT THE FOLLOWING LOCATIONS. REPLACE TEMPORARY PAVEMENT MARKINGS AND SAFE UP SHOULDER AT END OF EACH DAY'S PAVING.

-L57- STA 11+50± TO STA 26+00±  
 -Y57- STA 11+50± TO -L57-  
 -Y157- FROM -L57- TO -Y157- STA 12+75±


**PHASE II**

USING RSD 1101.02 (SHEET 1 OF 15), PLACE FINAL LAYER OF SURFACE COURSE AND PLACE FINAL PAVEMENT MARKINGS AND MARKERS ON -L57-, -Y57- AND -Y157-.

APPROVED: *Michael T. Rzepka* DATE: 3-18-13

**PHASE I DETAIL SITE #1**

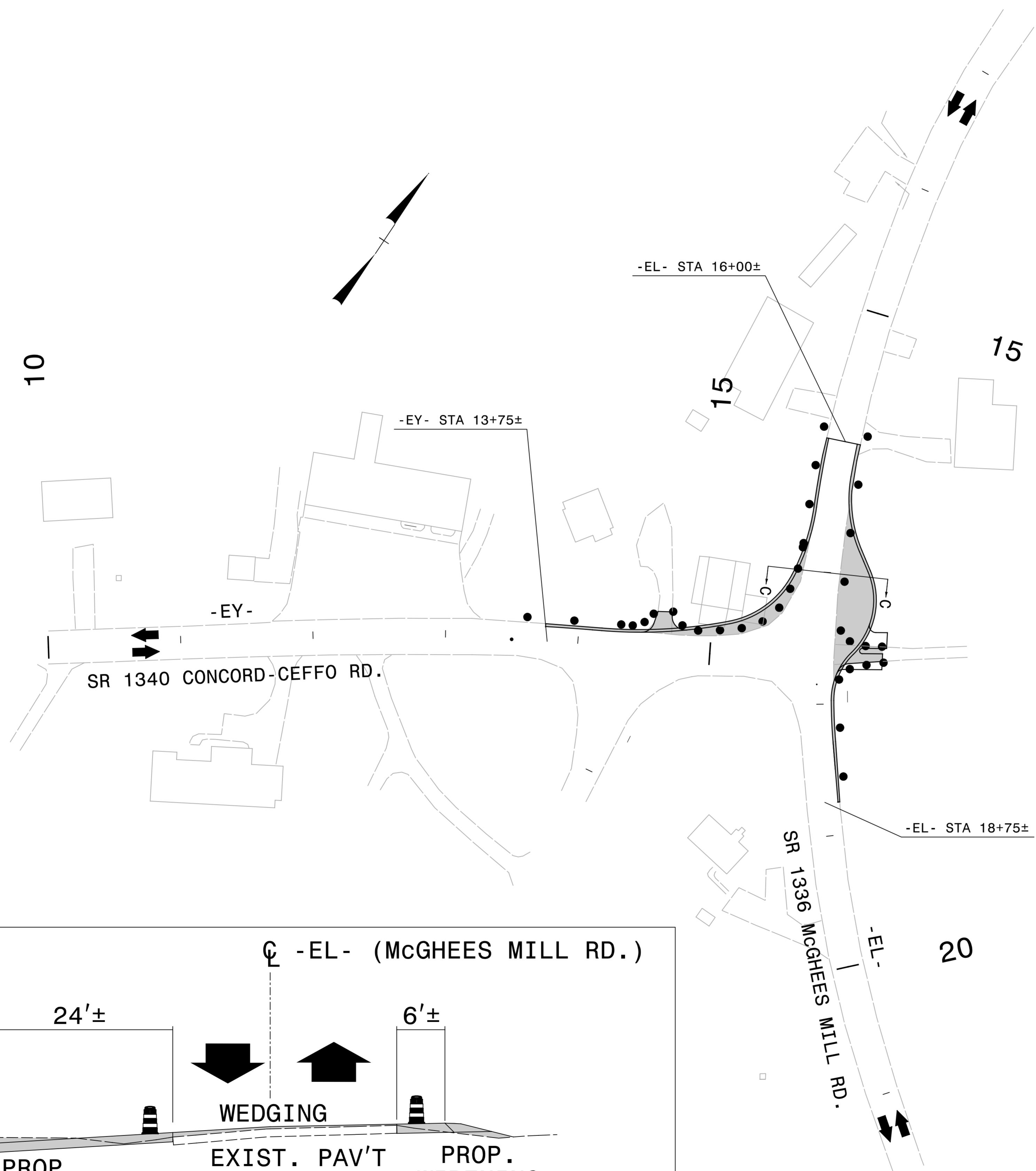
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 DESIGN BY: TAG  
 REVIEWED BY: MTR

SEAL: 

REVISIONS	

CADD FILE

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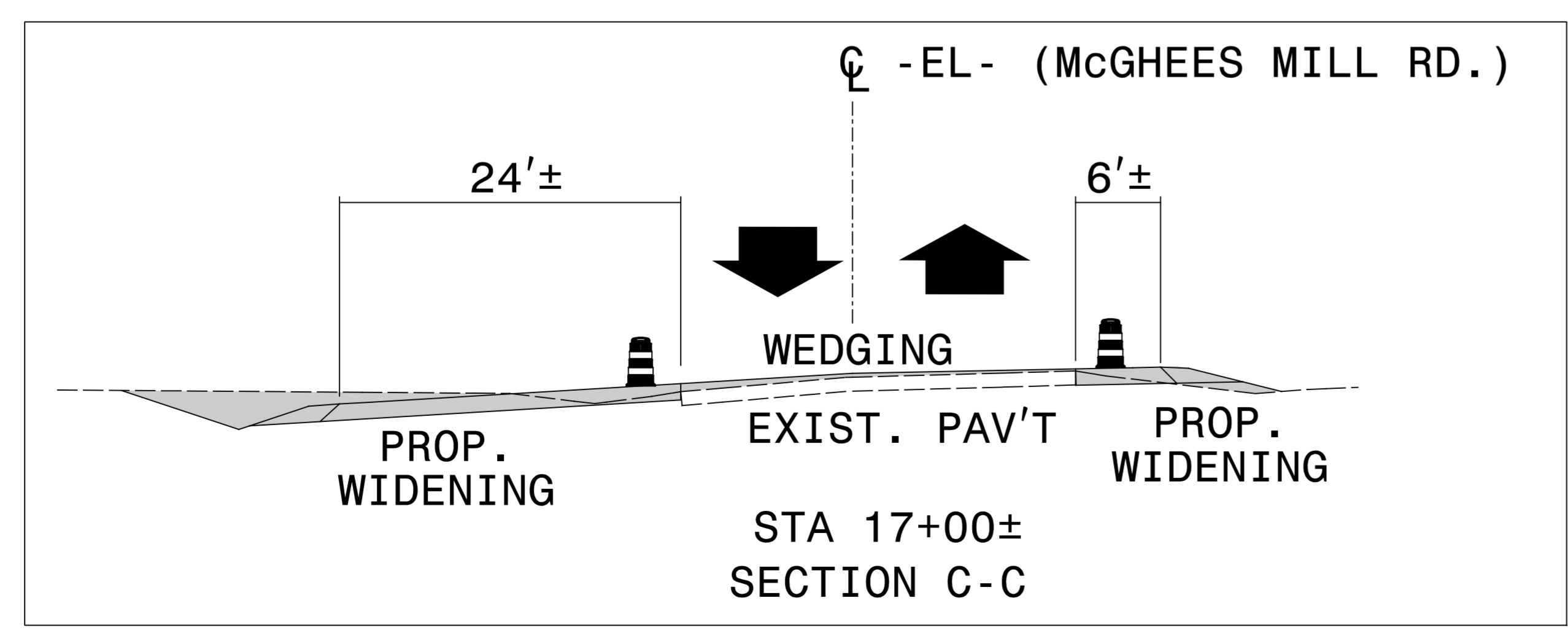
**PHASE I**


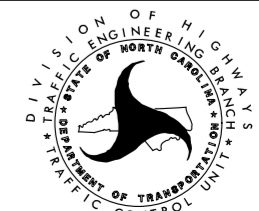
NOTES: - IN PHASING BELOW "RSD" REFERS TO NCDOT ROADWAY STANDARD DRAWING.  
 - IN PHASE I, PAVING TO BE DONE UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

- STEP 1  
 USING RSD 1101.04, INSTALL ADVANCE WARNING SIGNS ON CONCORD-CEFFO RD. AND MCGHEES MILL RD. (SEE ROADWAY STANDARD DRAWING NUMBER 1101.01).
- STEP 2  
 USING RSD 1101.02 (SHEET 1 OF 15), COMPLETE PROPOSED UTILITY AND DRAINAGE WORK.  
 USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT PROPOSED WEDGING AND WIDENING AT THE FOLLOWING LOCATIONS. REPLACE TEMPORARY PAVEMENT MARKINGS AND SAFE UP SHOULDER AT END OF EACH DAY'S PAVING.
- EL- STA 16+00± TO STA 18+75±
  - EY- STA 13+75± TO -EL-

**PHASE II**

USING RSD 1101.02 (SHEET 1 OF 15), PLACE FINAL LAYER OF SURFACE COURSE AND PLACE FINAL PAVEMENT MARKINGS AND MARKERS ON -EL- AND -EY-.



APPROVED: <i>Michael T. Rzepka</i> DATE: 3-18-13	<b>PHASE I DETAIL SITE #2</b>									
SEAL 	SCALE: NONE									
	DATE: MAR '13									
	DESIGN BY: TAG									
	REVIEWED BY: MTR									
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REVISIONS										
NO.	DESCRIPTION									

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 Florence & Hutcheson

**CONTRACT: 36249.3130**

**STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
 PERSON COUNTY**

TIP NO. 36249.3130	SHEET NO. PMP - 1
APPROVED: _____	
DATE: _____	
SEAL	

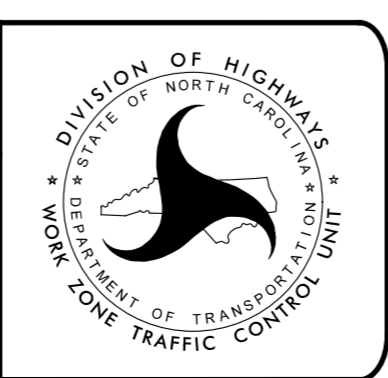
<b>INDEX</b>	
SHEET NO.	DESCRIPTION
PMP - 1	PAVEMENT MARKING PLAN COVER SHEET ROADWAY STANDARD DRAWINGS, GENERAL NOTES & FINAL PAVEMENT MARKING SCHEDULE
PMP - 2 & 3	PAVEMENT MARKING DETAILS

<b>ROADWAY STANDARD DRAWING</b>	
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
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

<b>GENERAL NOTES</b>		
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
ALL ROADS	THERMOPLASTIC	PERMANENT RAISED
B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.		
C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.		
D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.		
E) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.		
F) 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.		

<b>FINAL PAVEMENT MARKING SCHEDULE</b>		
SYMBOL	DESCRIPTION	PAY ITEM
TA	WHITE EDGELINE	THERMOPLASTIC (4", 90 mils)
TD	3 FT- 9 FT WHITE MINISKIP	THERMOPLASTIC (4", 120 mils)
TE	WHITE SOLID LANE LINE	THERMOPLASTIC (4", 120 mils)
TI	DOUBLE YELLOW CENTER LINE	THERMOPLASTIC (4", 120 mils)
TO	WHITE DIAGONAL	THERMOPLASTIC (8", 90 mils)
TP	YELLOW DIAGONAL	THERMOPLASTIC (8", 90 mils)
T2	WHITE STOPBAR	THERMOPLASTIC (24", 120 mils)
T8	2 FT- 6 FT WHITE MINISKIP	THERMOPLASTIC (4", 120 mils)
UA	LEFT TURN ARROW	THERMOPLASTIC (90 mils)
MA	YELLOW & YELLOW	PERMANENT RAISED
MB	CRYSTAL & RED	PERMANENT RAISED


<b>PLAN REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT</b>	
<u>CHRIS HOWARD</u> SIGNING & DELINEATION STANDARDS ENGINEER	
<u>MARK MANRIQUEZ</u> SIGNING & DELINEATION PROJECT DESIGN ENGINEER	

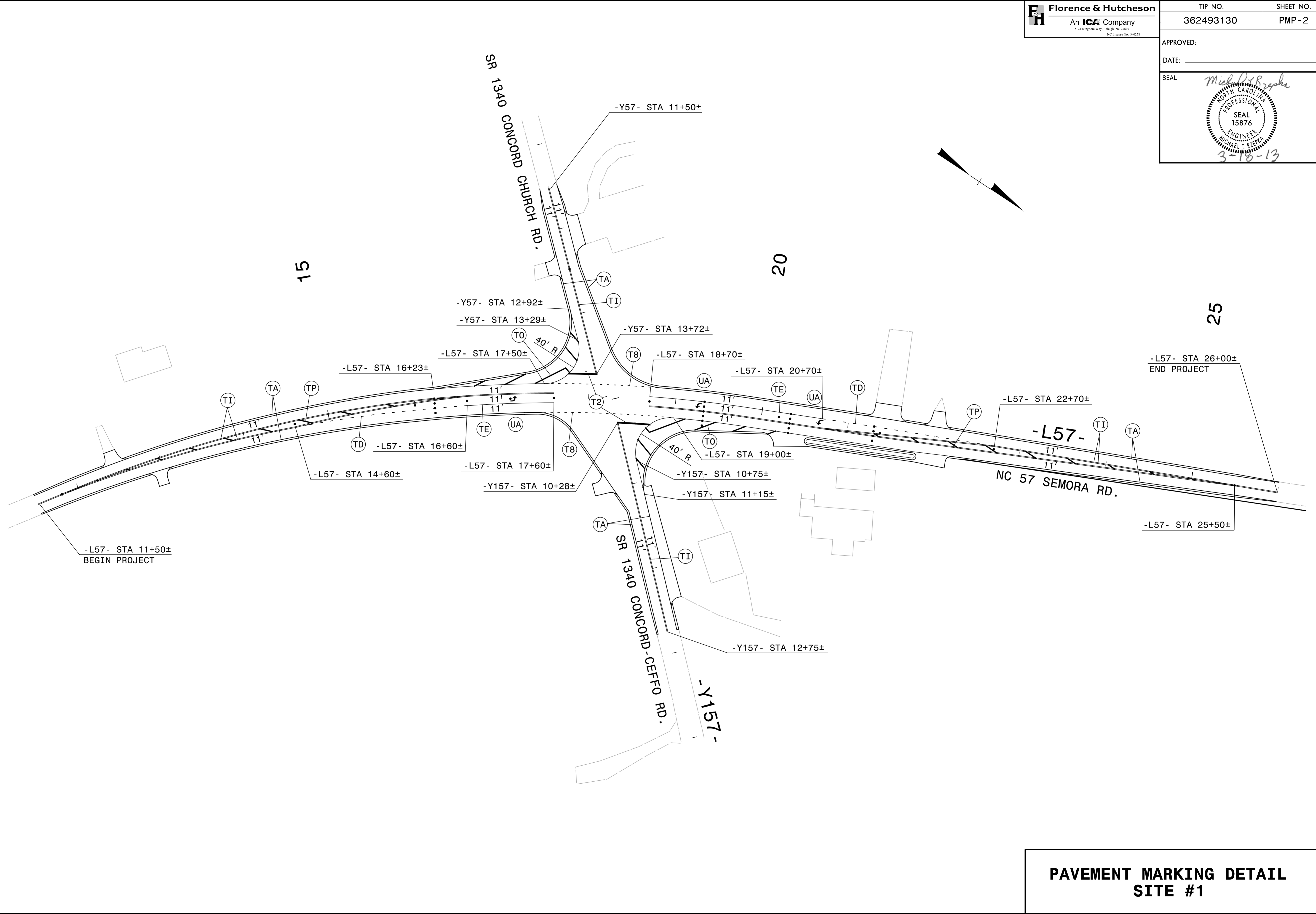


<b>PLAN PREPARED BY: Florence &amp; Hutcheson, Inc.</b>	
<u>Gary Parker</u> Designer	
<u>Michael T. Rzepka, PE</u> Project Engineer	

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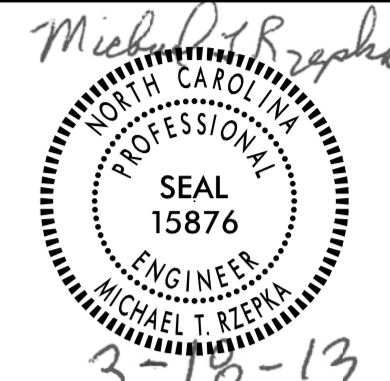


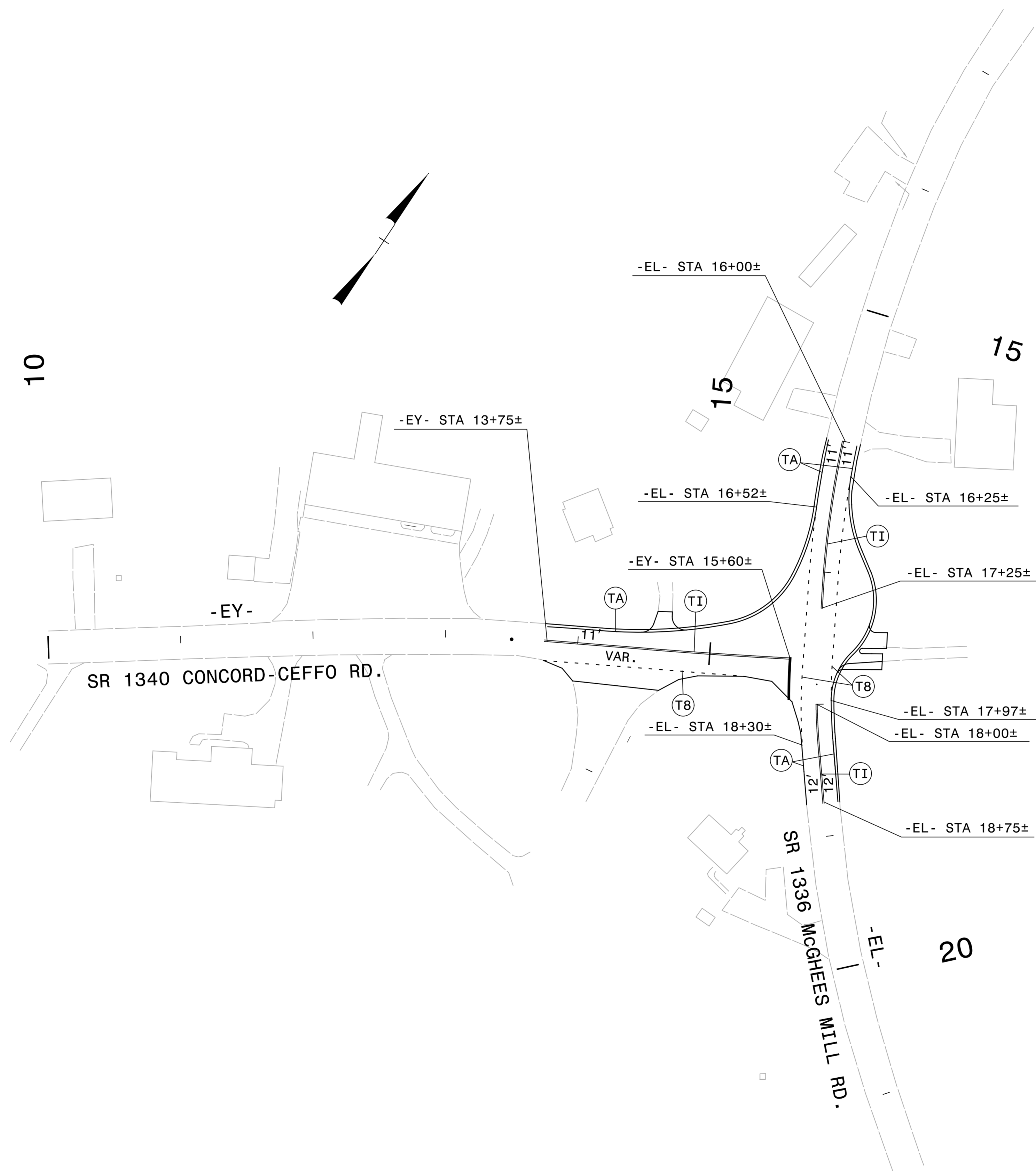
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 SEAL  




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**PAVEMENT MARKING DETAIL  
 SITE #1**

APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
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 3-18-13

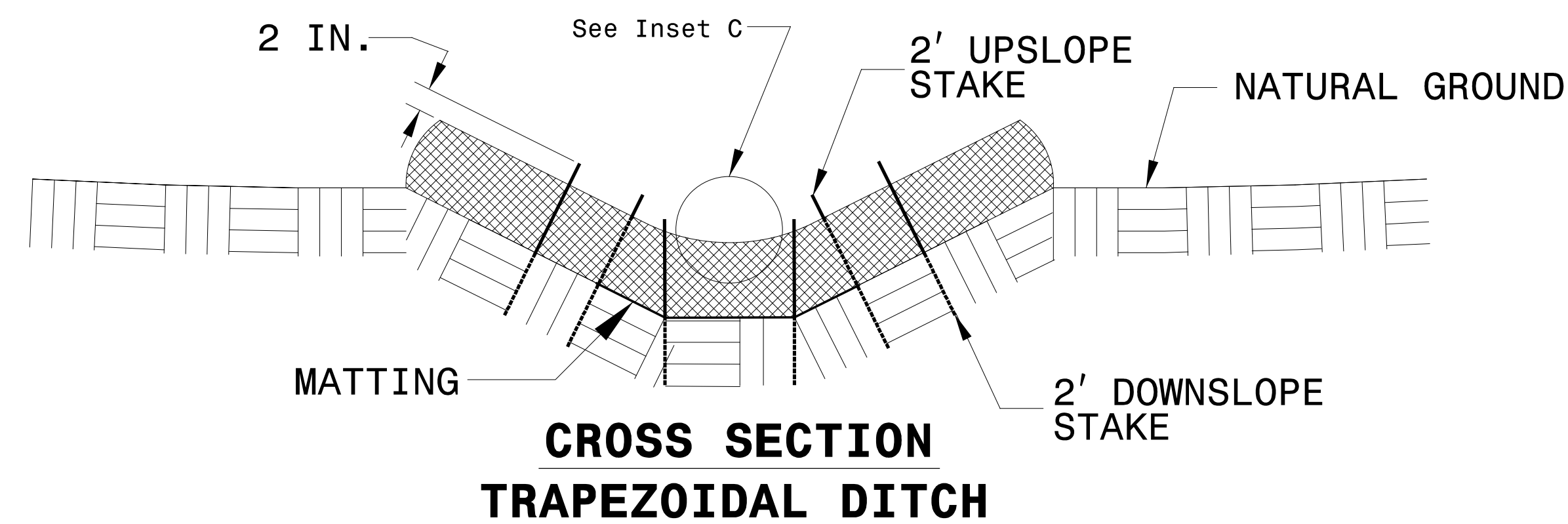
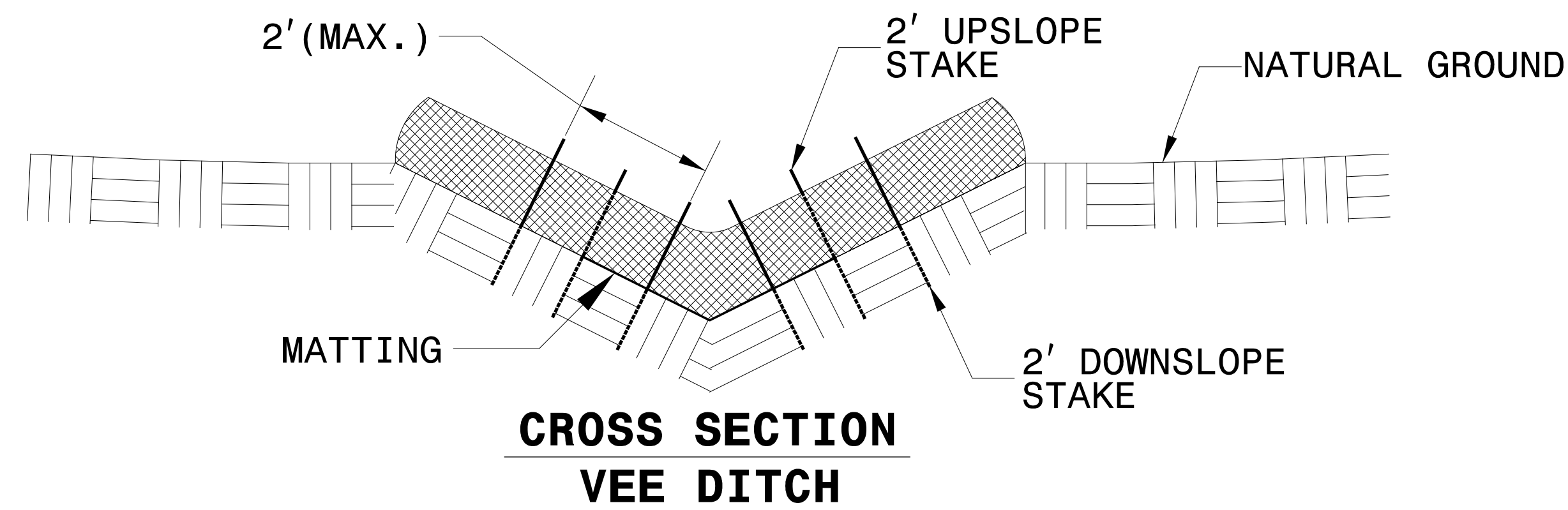
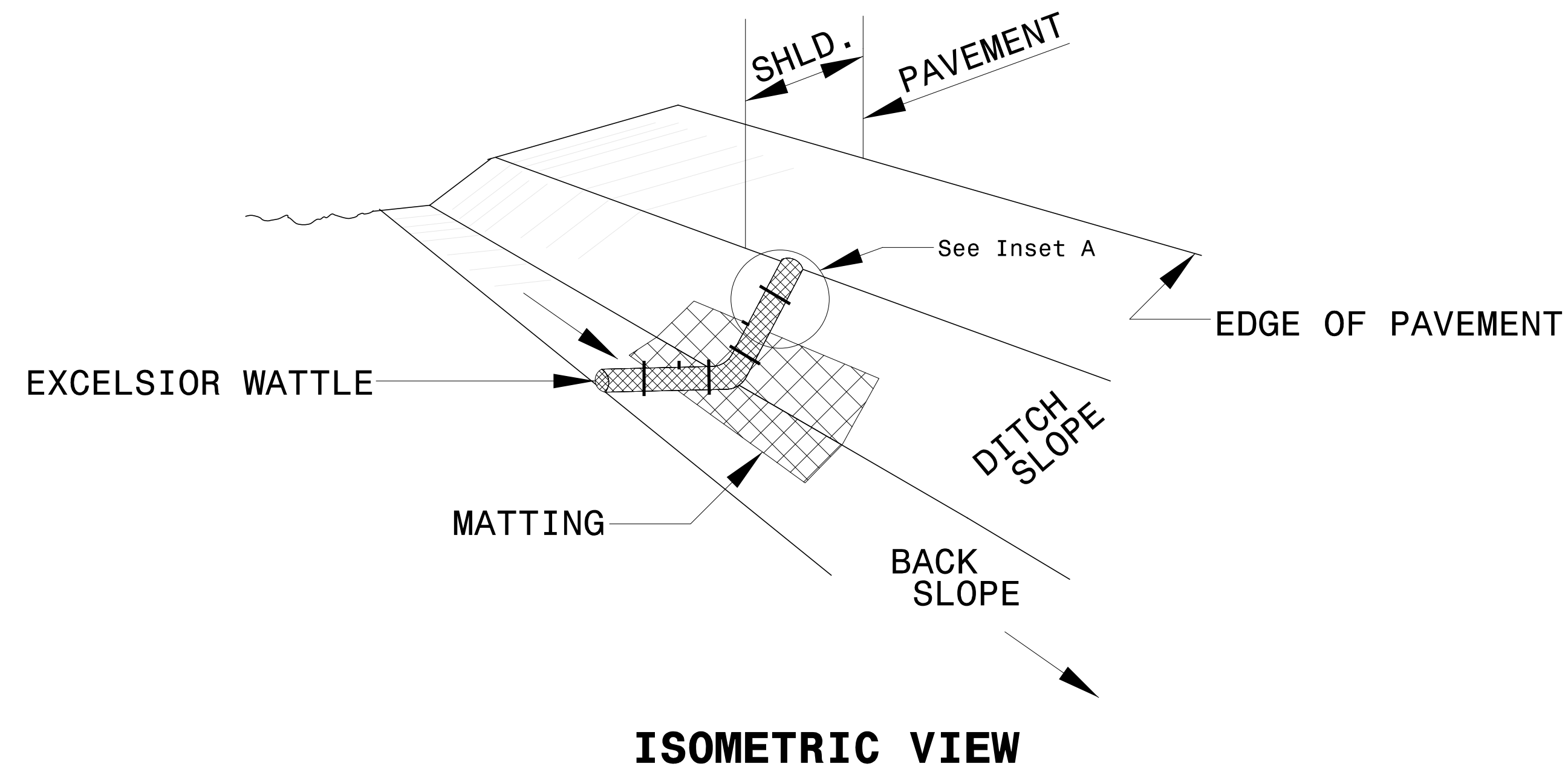


**PAVEMENT MARKING DETAIL  
 SITE #2**

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# 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.

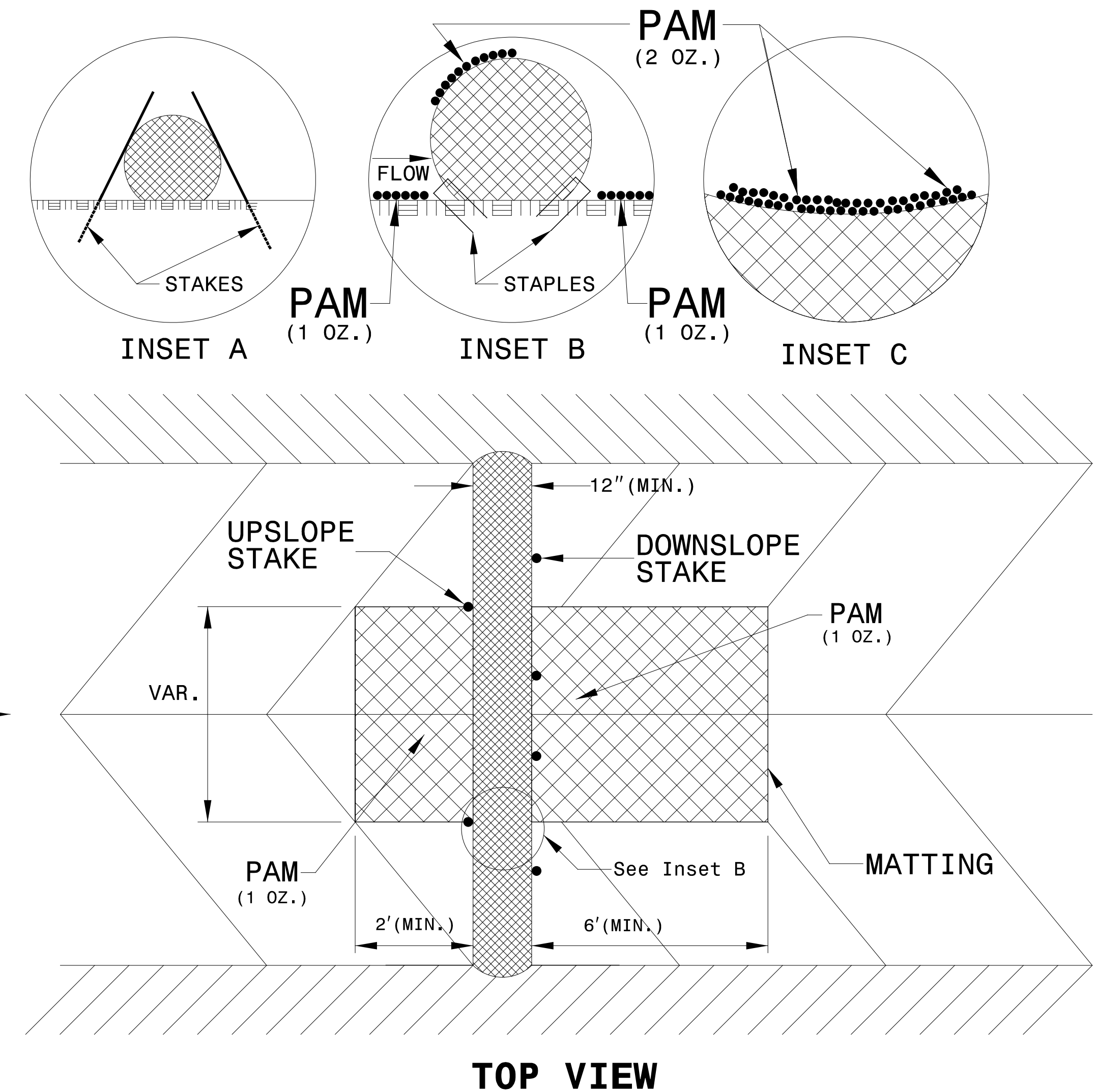
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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 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

## SOIL STABILIZATION SUMMARY SHEET

### MATTING FOR EROSION CONTROL

### PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	-L57-	16+25	17+00	RT	55
5	-L57-	16+00	16+75	LT	55
5	-L57-	18+30	19+00	LT	60
5	-L57-	19+00	20+25	LT	65
5	-L57-	20+25	24+50	LT	390
5	-L57-	22+50	24+00	RT	125
5	-L57-	24+00	25+07	RT	90
5	-Y157-	10+25	10+80	RT	40
6	-EL-	16+50	18+75	LT	160
6	-EL-	18+00	18+50	RT	35
			SUBTOTAL		1075
	MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER				7500
			TOTAL		8575
			SAY		8575

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	-L57-	19+00	20+00	RT	65
5	-L57-	16+75	17+60	LT	60
			SUBTOTAL		125
			ADDITIONAL PERM TO BE INSTALLED		0
			TOTAL		125
			SAY		125



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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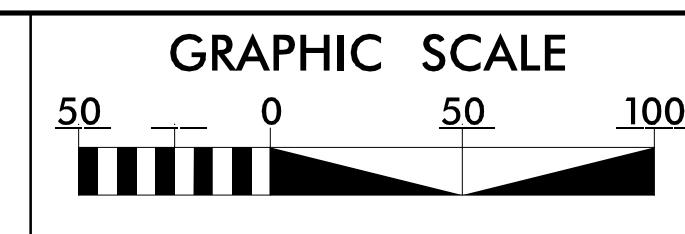


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## ***SOIL STABILIZATION TIMEFRAMES***

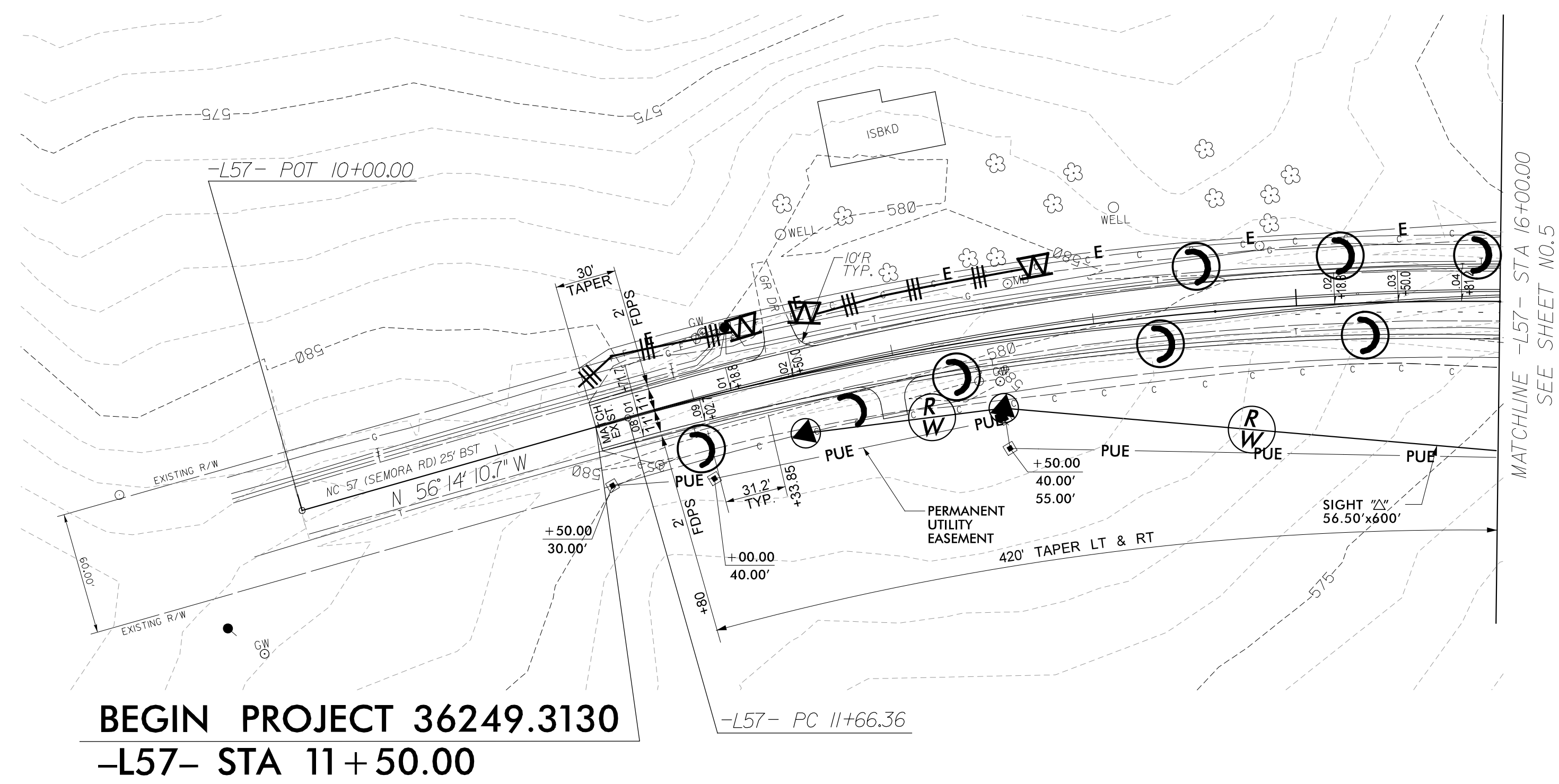
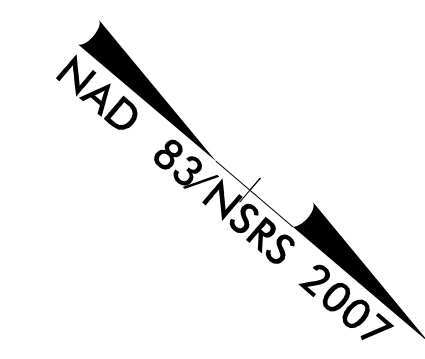
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES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

5/14/99



PROJECT REFERENCE NO.	SHEET NO.
36249.3130	EC4/CONST.4
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	
LEVEL III CERTIFIED BY: ALEXANDER SNIDER, E.I. CERTIFICATION NUMBER: 3064 ISSUED: JULY 29, 2013	

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4



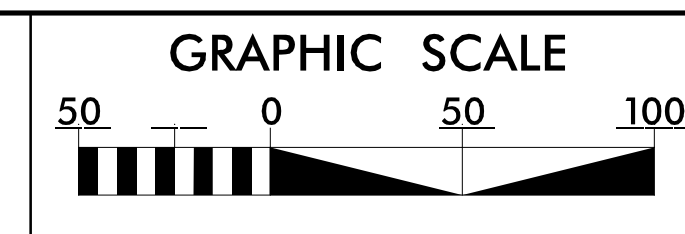
**BEGIN PROJECT 36249.3130**  
**-L57- STA 11 + 50.00**

NOTE:  
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED  
WITHIN EXISTING RW OR EASEMENT.

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7/29/2015  
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K.C. Associates, P.C.

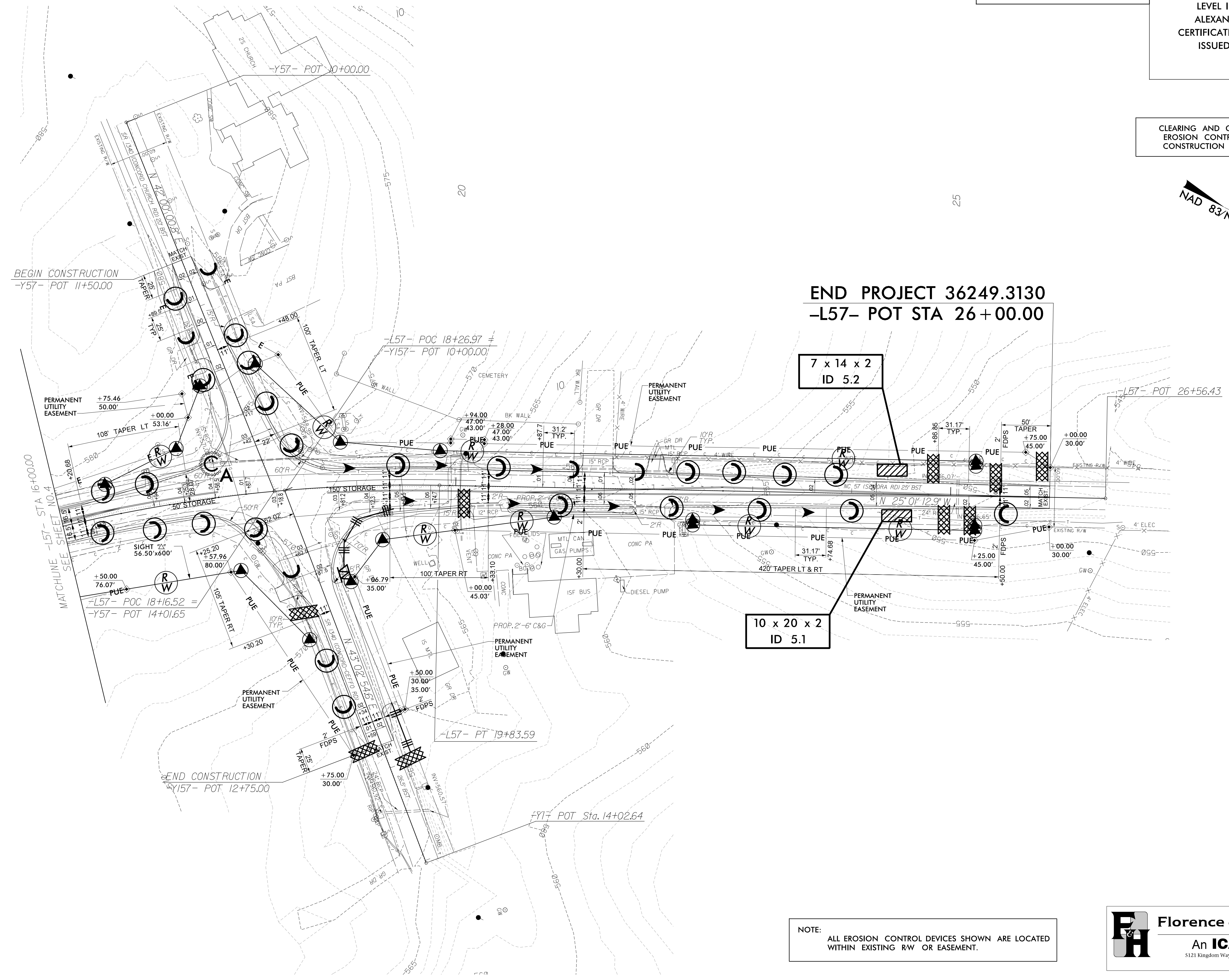
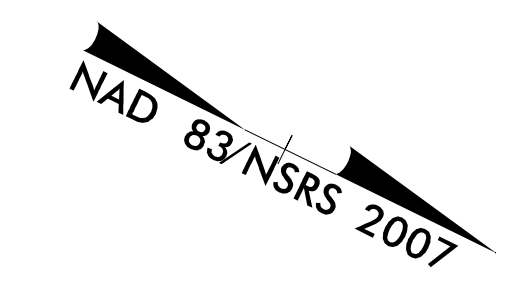
5/14/99



PROJECT REFERENCE NO.	SHEET NO.
36249.3130	EC5/CONST.5
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:  
ALEXANDER SNIDER, E.I.  
CERTIFICATION NUMBER: 3064  
ISSUED: JULY 29, 2013

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 5



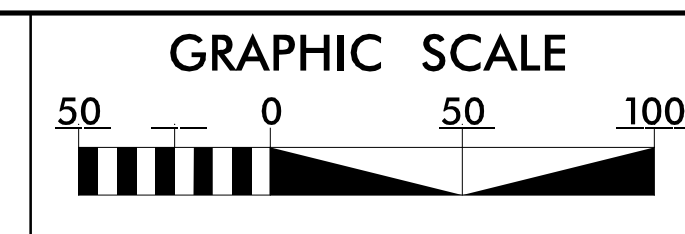
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 Associates, P.C.

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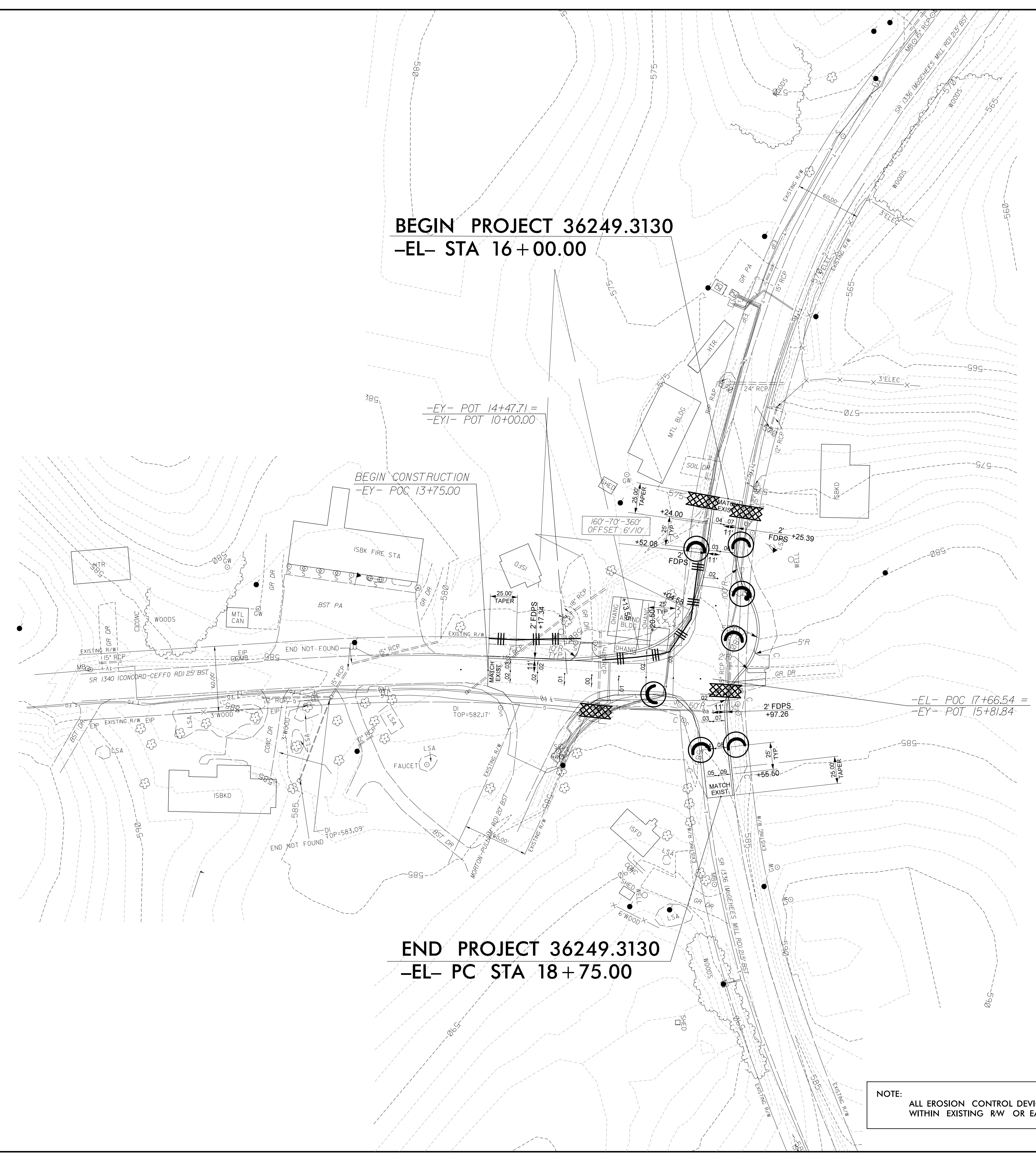
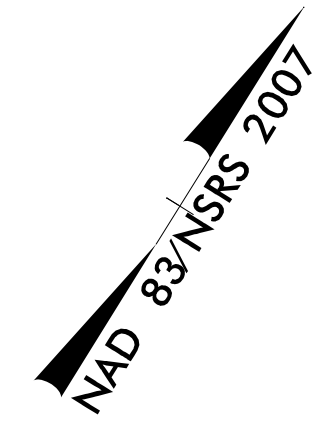
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36249.3130	EC6/CONST.6
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:  
ALEXANDER SNIDER, E.I.  
CERTIFICATION NUMBER: 3064  
ISSUED: JULY 29, 2013

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 6

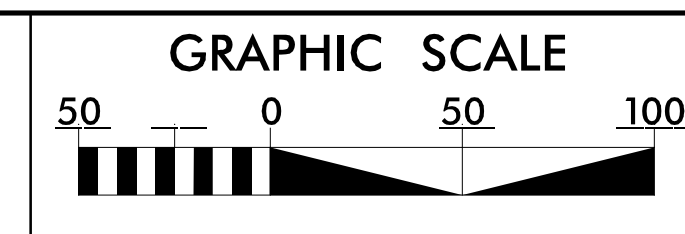


NOTE:  
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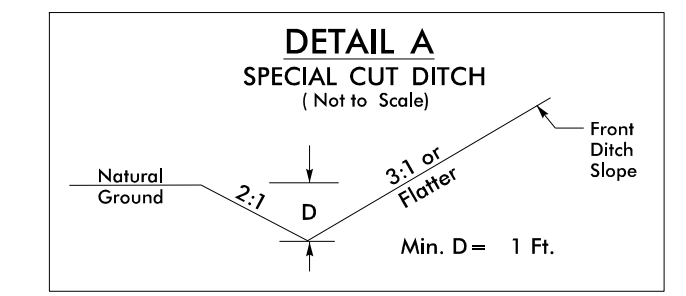
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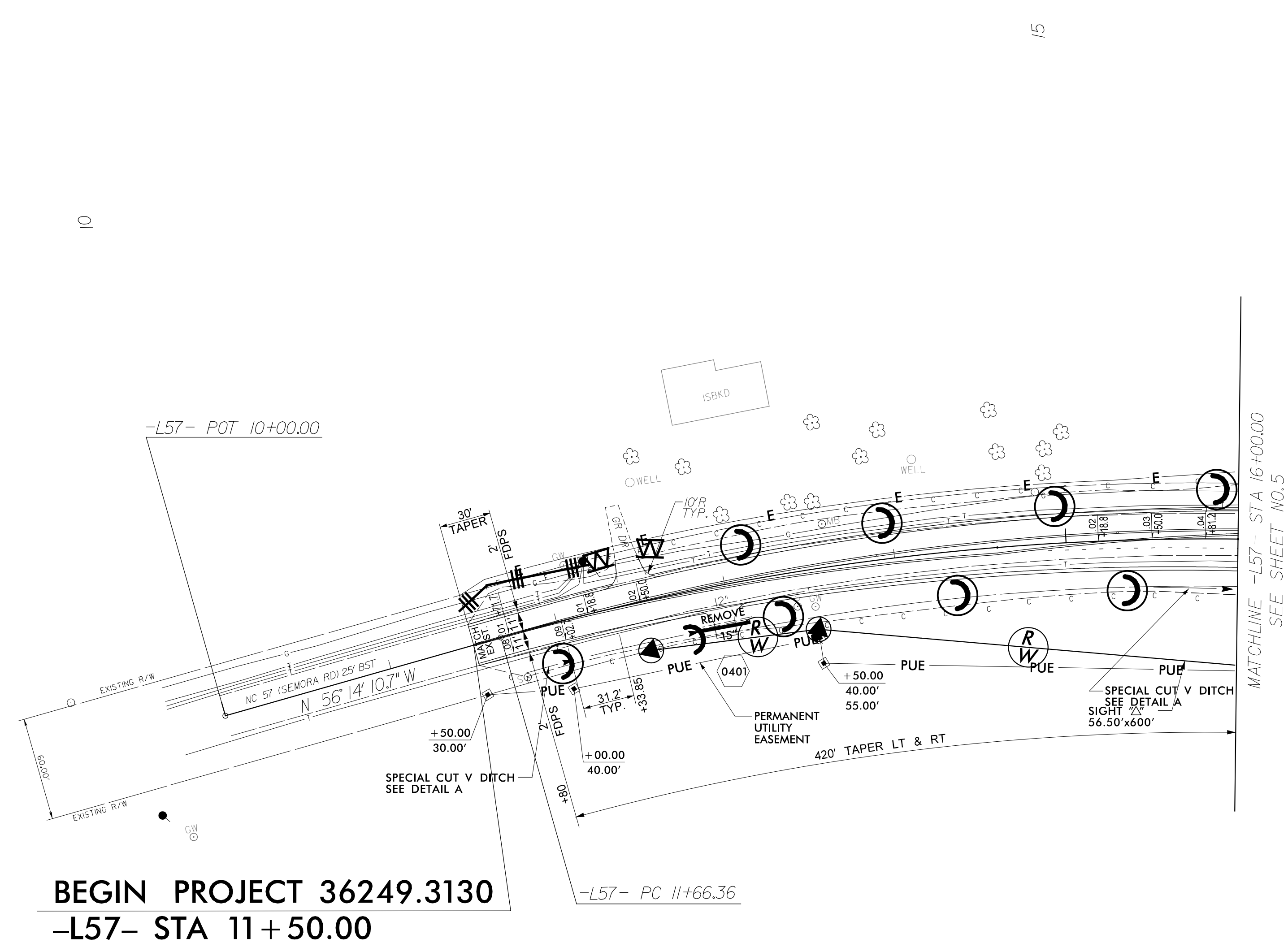
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ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:  
ALEXANDER SNIDER, E.I.  
CERTIFICATION NUMBER: 3064  
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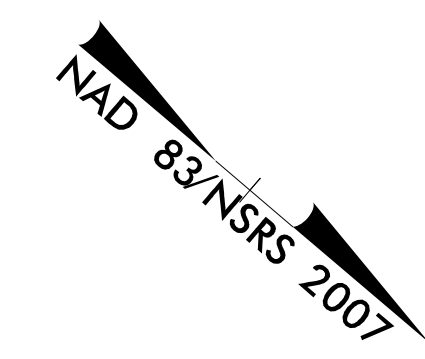
FINAL GRADE EROSION CONTROL  
FOR ONSTRUCTION SHEET 4



-L57- FROM STA. 11+75 TO STA. 13+00 RT.  
-L57- FROM STA. 15+50 TO STA. 16+25 RT.



**BEGIN PROJECT 36249.3130**  
**-L57- STA 11+50.00**

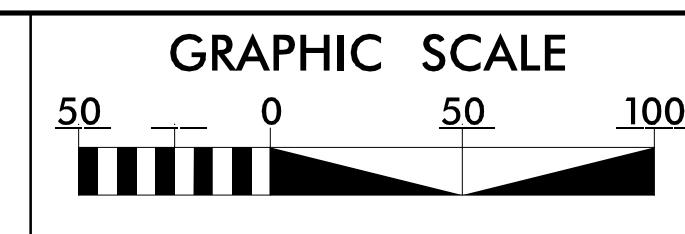


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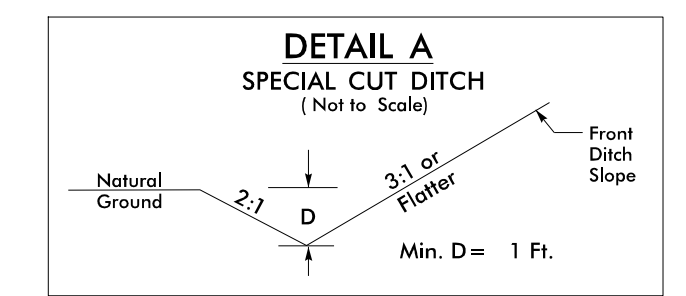
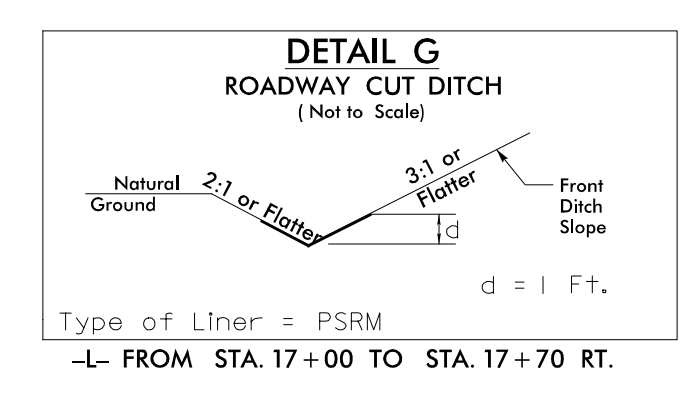
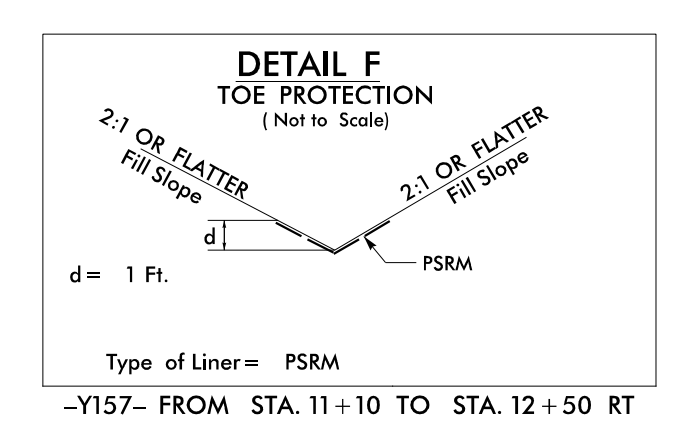
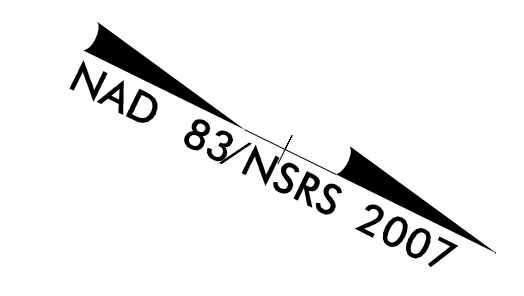
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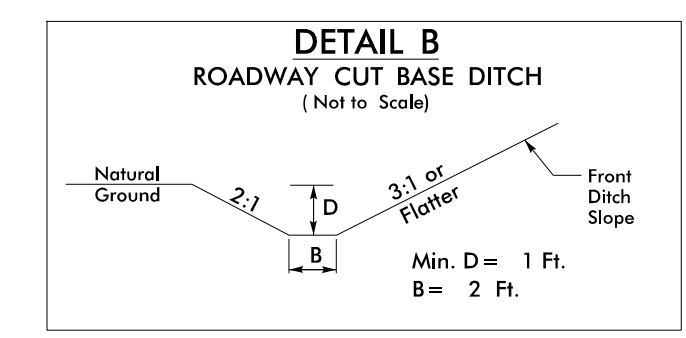
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36249.3130	EC8/CONST.5
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

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ALEXANDER SNIDER, E.I.  
CERTIFICATION NUMBER: 3064  
ISSUED: JULY 29, 2013

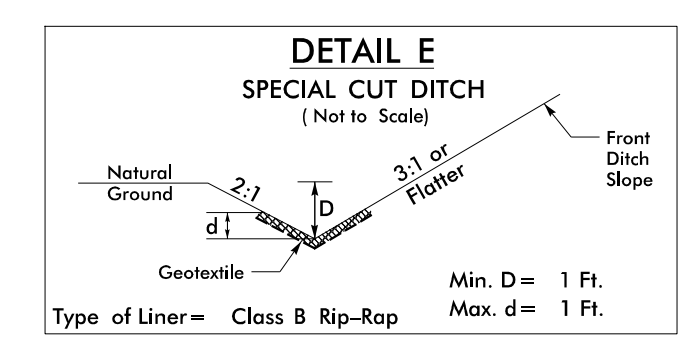
FINAL GRADE EROSION CONTROL  
FOR CONSTRUCTION SHEET 5



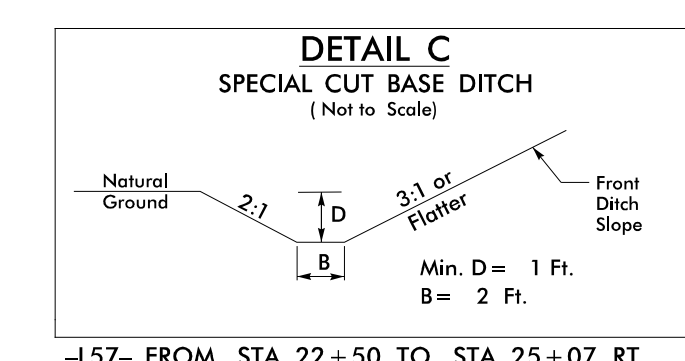
-L57- FROM STA. 11+75 TO STA. 13+00 RT.  
-L57- FROM STA. 15+50 TO STA. 16+25 RT.  
-L57- FROM STA. 16+75 LT. TO -Y57- STA. 13+25 RT.  
-L57- FROM STA. 19+50 TO STA. 20+00 RT.  
-L57- FROM STA. 25+07 TO STA. 26+00 RT.  
-Y57- FROM STA. 13+25 LT. TO -L57- STA. 19+00 LT.



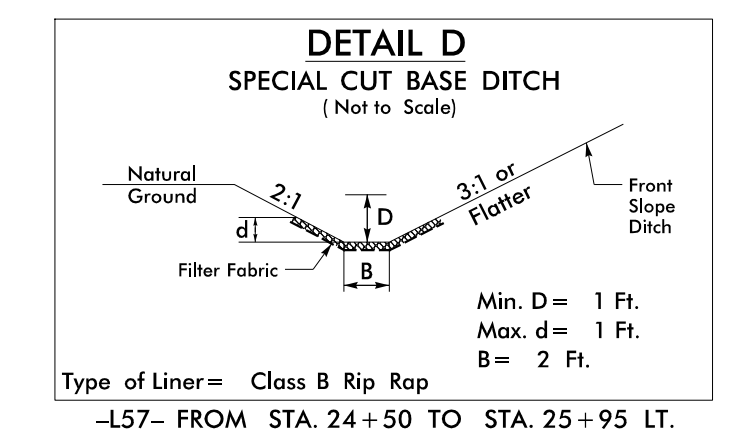
-L57- FROM STA. 20+25 TO STA. 24+50 LT.



-Y57- FROM STA. 12+75 TO STA. 13+25 LT.  
-Y57- FROM STA. 12+75 TO STA. 13+25 RT.



-L57- FROM STA. 22+50 TO STA. 25+07 RT.



-L57- FROM STA. 24+50 TO STA. 25+95 LT.

**END PROJECT 36249.3130**  
**-L57- POT STA 26+00.00**

**BEGIN CONSTRUCTION**  
**-Y57- POT 11+50.00**

**MATCHLINE -L57- STA 16+00.00**  
SEE SHEET NO. 4

**END CONSTRUCTION**  
**-Y157- POT 12+75.00**

**-Y1- POT Sta. 14+02.64**

7 x 14 x 2  
ID 5.2

10 x 20 x 2  
ID 5.1

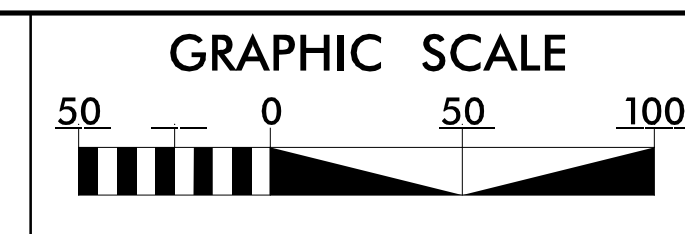
NOTE:  
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED  
WITHIN EXISTING RW OR EASEMENT.

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NC License No: P-0258

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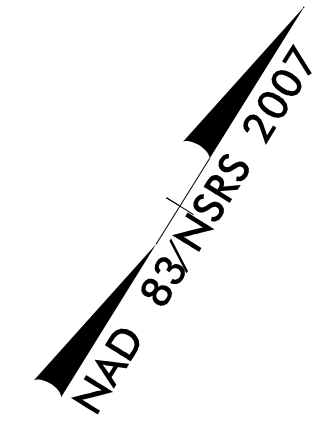
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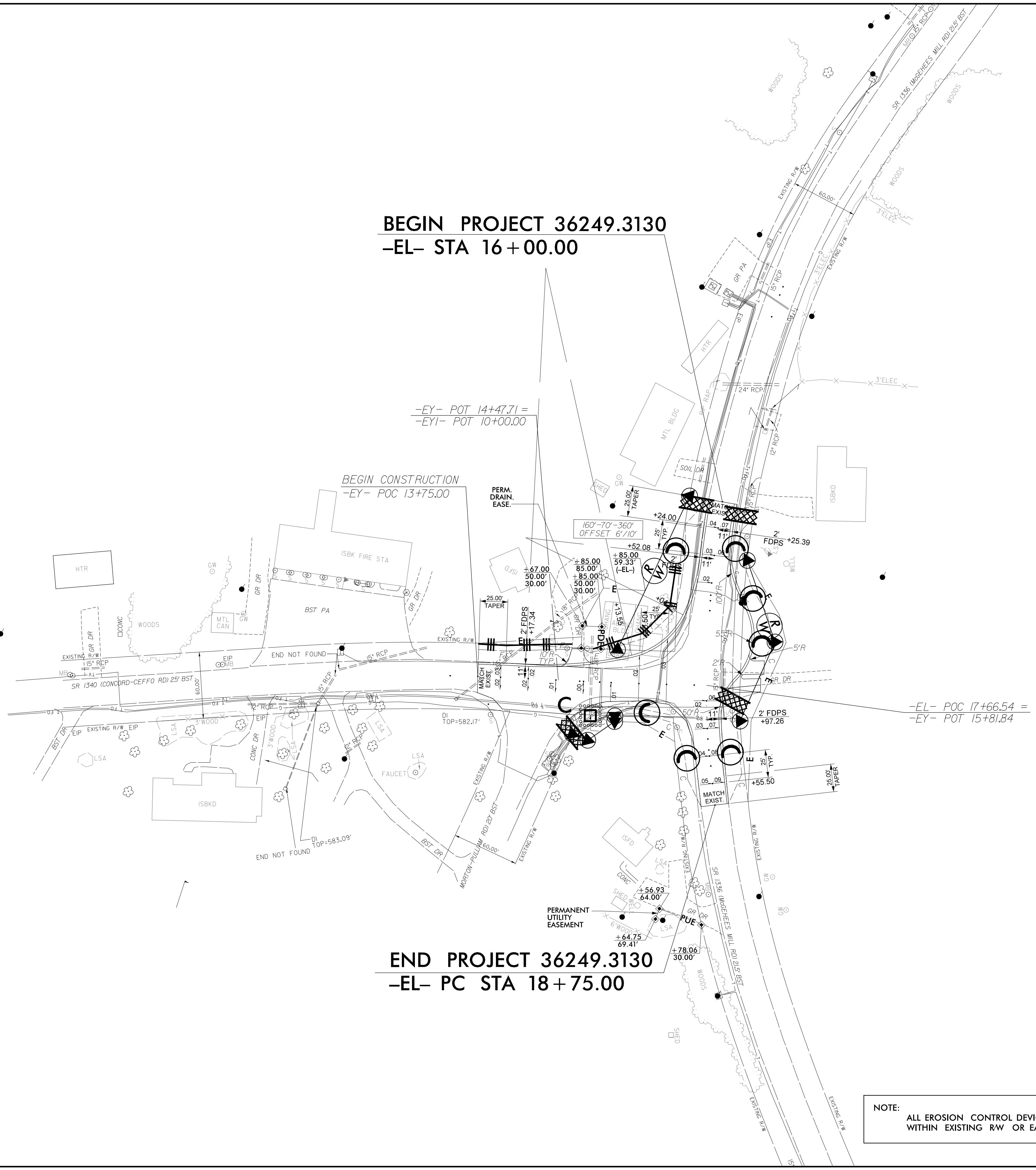
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36249.3130	EC9/CONST.6
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:  
ALEXANDER SNIDER, E.I.  
CERTIFICATION NUMBER: 3064  
ISSUED: JULY 29, 2013

FINAL GRADE EROSION CONTROL  
FOR CONSTRUCTION SHEET 6



**BEGIN PROJECT 36249.3130**  
**-EL- STA 16+00.00**



-EY- POT 14+47.71 =  
-EY1- POT 10+00.00

BEGIN CONSTRUCTION  
-EY- POC 13+75.00

-EL- POC 17+66.54 =  
-EY- POT 15+81.84

**END PROJECT 36249.3130**  
**-EL- PC STA 18+75.00**

NOTE:  
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WITHIN EXISTING RW OR EASEMENT.

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An **ICA** Company  
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**PROJECT: 36249.3130**

**CONTRACT:**

3/18/2013 P:\Roadway\DDC\Div05\Person\_Co\_intersections\Traffic\Signing\CADD\Signing\_Layout\Plans\362493130\_sign\_title.dgn Florence & Hutcheson

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
PERSON COUNTY**

**LOCATION: SITE #1 - INTERSECTION OF NC 57 AND SR 1340 NEAR ROXBORO  
SITE #2 - INTERSECTION OF SR 1336 AND SR 1340 NEAR ROXBORO**

TIP NO. 36249.3130	SHEET NO. SIGN-1
APPROVED:	
DATE: 3-18-13	
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
904.30	SUPPLEMENTAL SIGN MOUNTING
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

**GENERAL NOTES**

- . SIGNS FURNISHED BY STATE
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.

**SUMMARY OF QUANTITIES**

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4102000000	904	SIGN ERECTION, TYPE E	8	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	6	EA.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	132	L.F.

**INDEX**

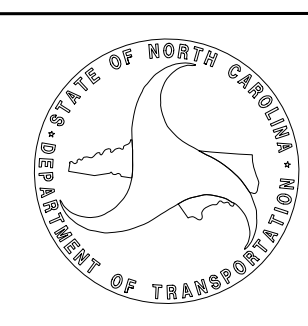
SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	E SHEET
SIGN-3-4	SIGN DETAIL SHEETS

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

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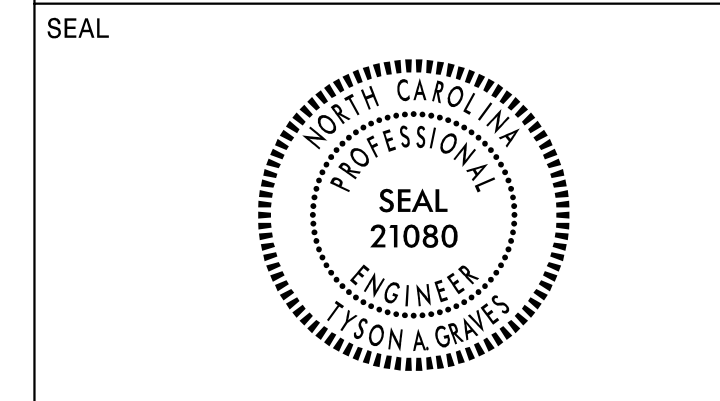
\_\_\_\_\_ SIGNING & DELINEATION REGIONAL ENGINEER

\_\_\_\_\_ SIGNING & DELINEATION PROJECT DESIGN ENGINEER

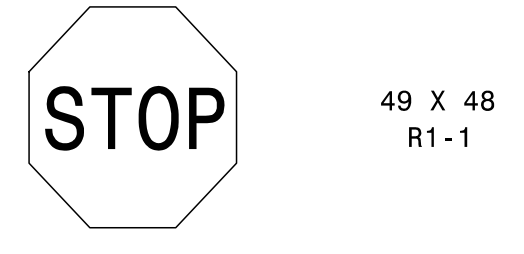




APPROVED: *[Signature]*  
 DATE: 3-18-13

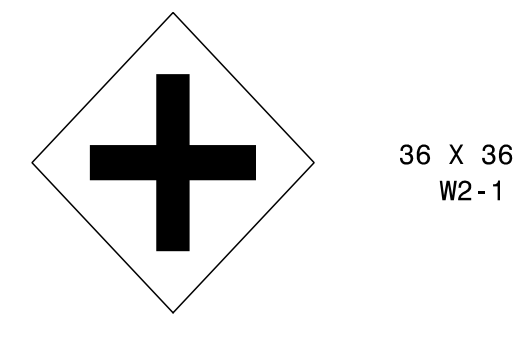


401 QUANTITY REQ'D 2



TWO "U" POSTS PER SIGN

402 QUANTITY REQ'D 2



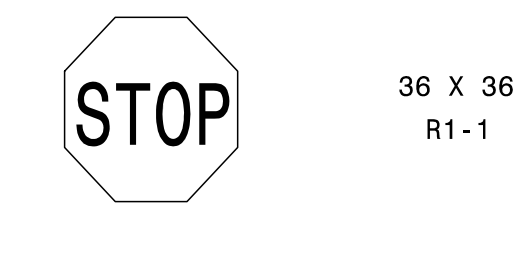
ONE "U" POSTS PER SIGN

403 QUANTITY REQ'D 2



MOUNT BELOW SIGN 402  
 IN 2 INSTALLATIONS

404 QUANTITY REQ'D 2



ONE "U" POST PER SIGN

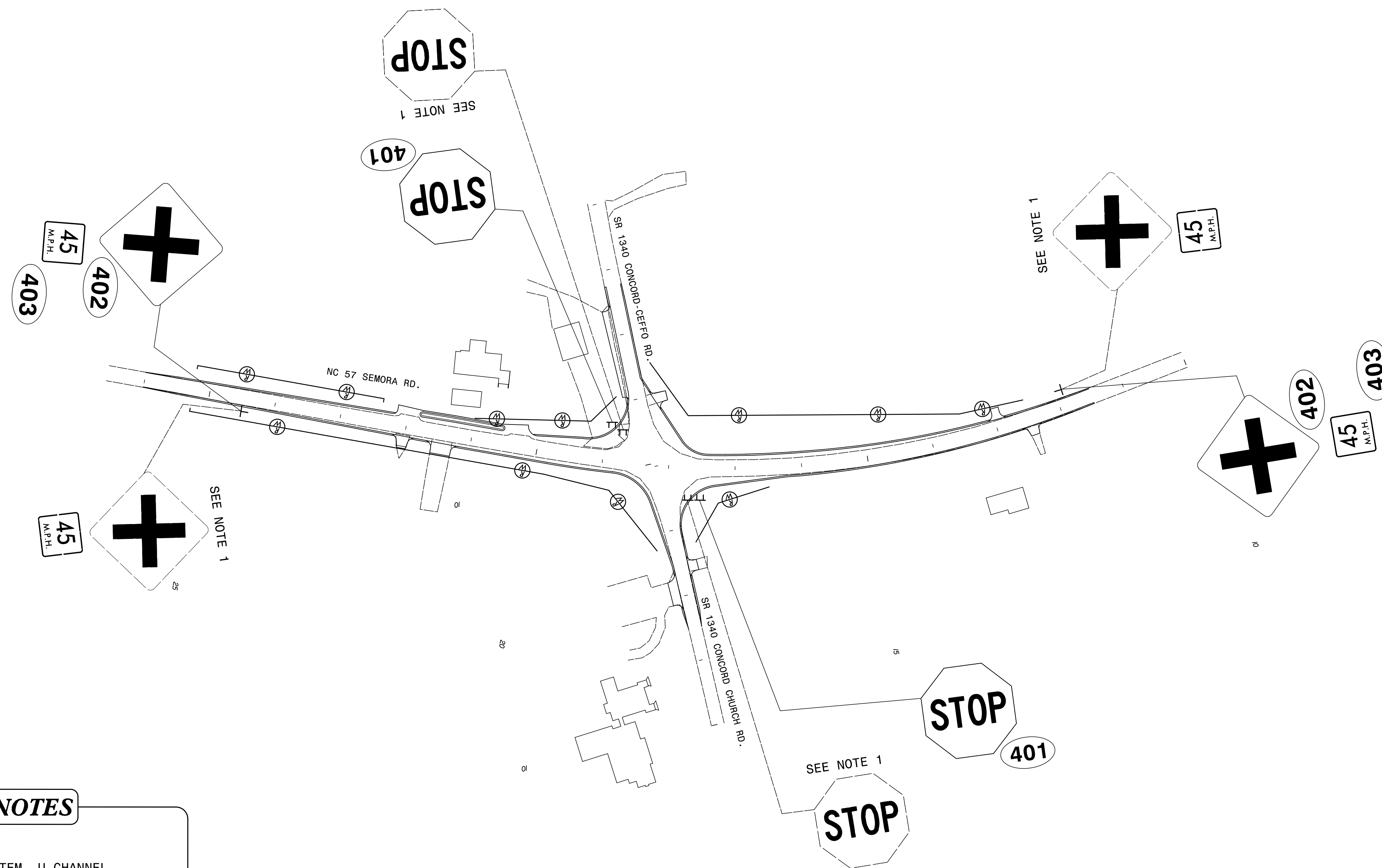
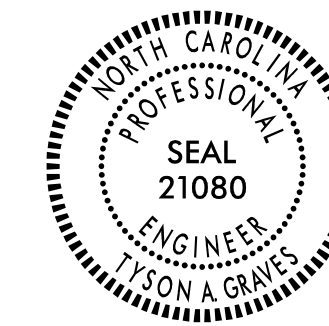


**TYPE "E" SIGNS**

3/18/2013  
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 Florence & Hutcheson

APPROVED: *[Signature]*  
 DATE: 3-18-13

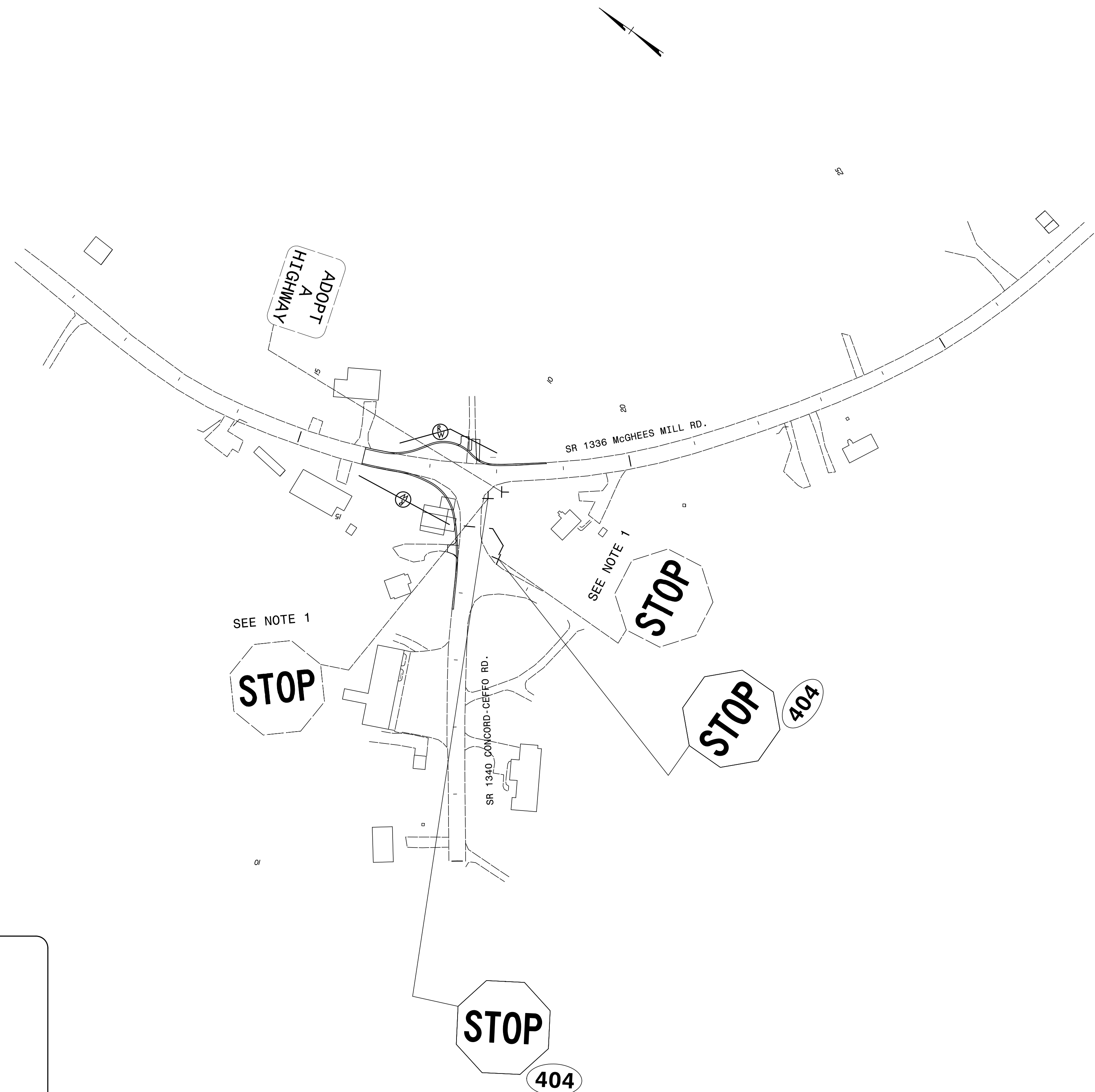
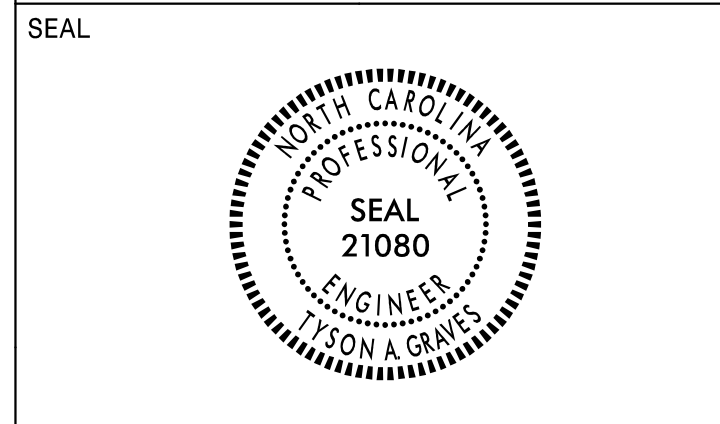
SEAL



**PROJECT NOTES**

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL

APPROVED: *[Signature]*  
 DATE: 3-18-13



**PROJECT NOTES**

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL



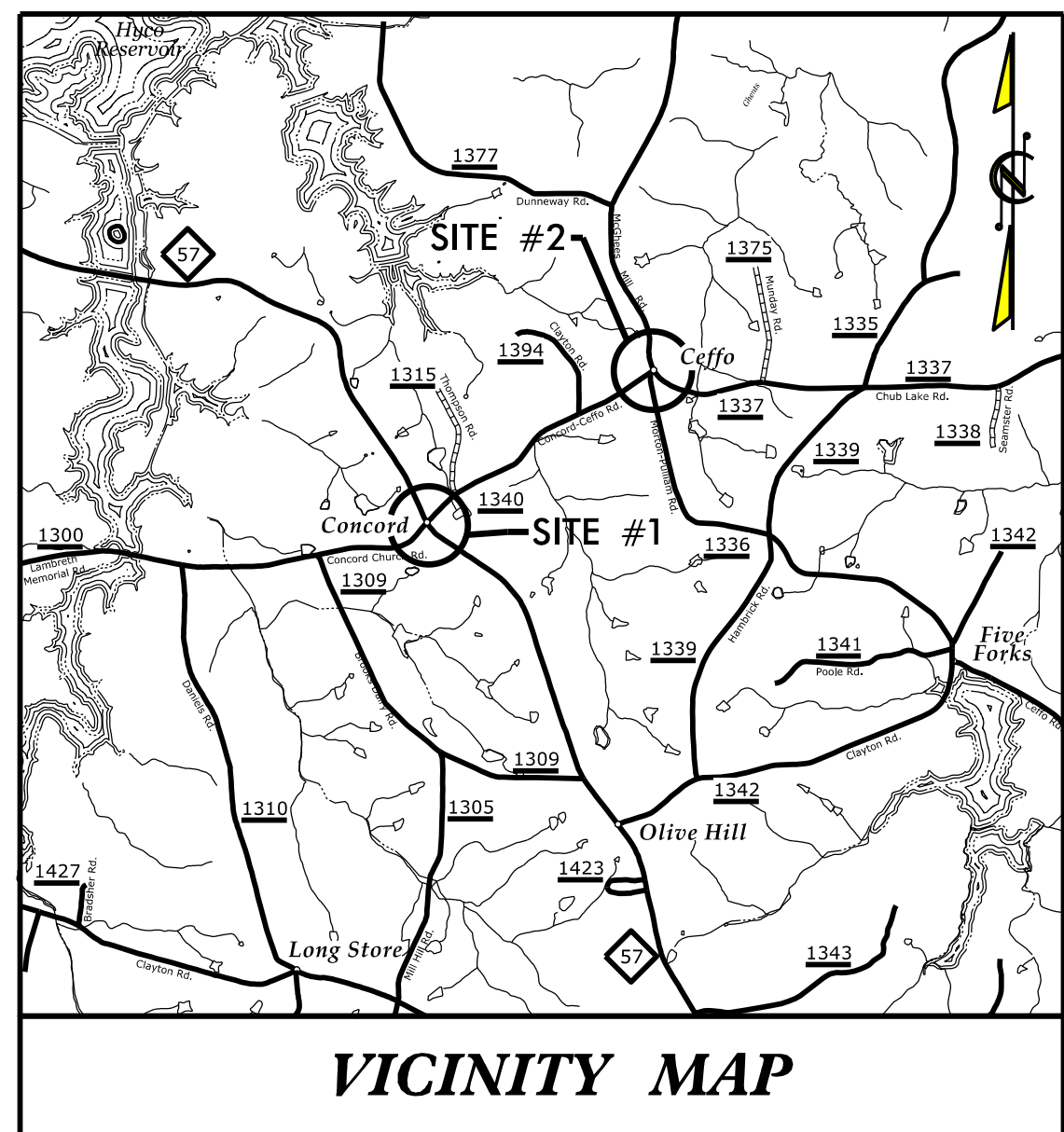
**SITE #2 DETAIL**

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 Florence & Hutcheson

09/08/99  
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Joshua Barbour - Division: P005 Power - Emp

**CONTRACT: 36249.3130**

See Sheet 1-A For Index of Sheets



**VICINITY MAP**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

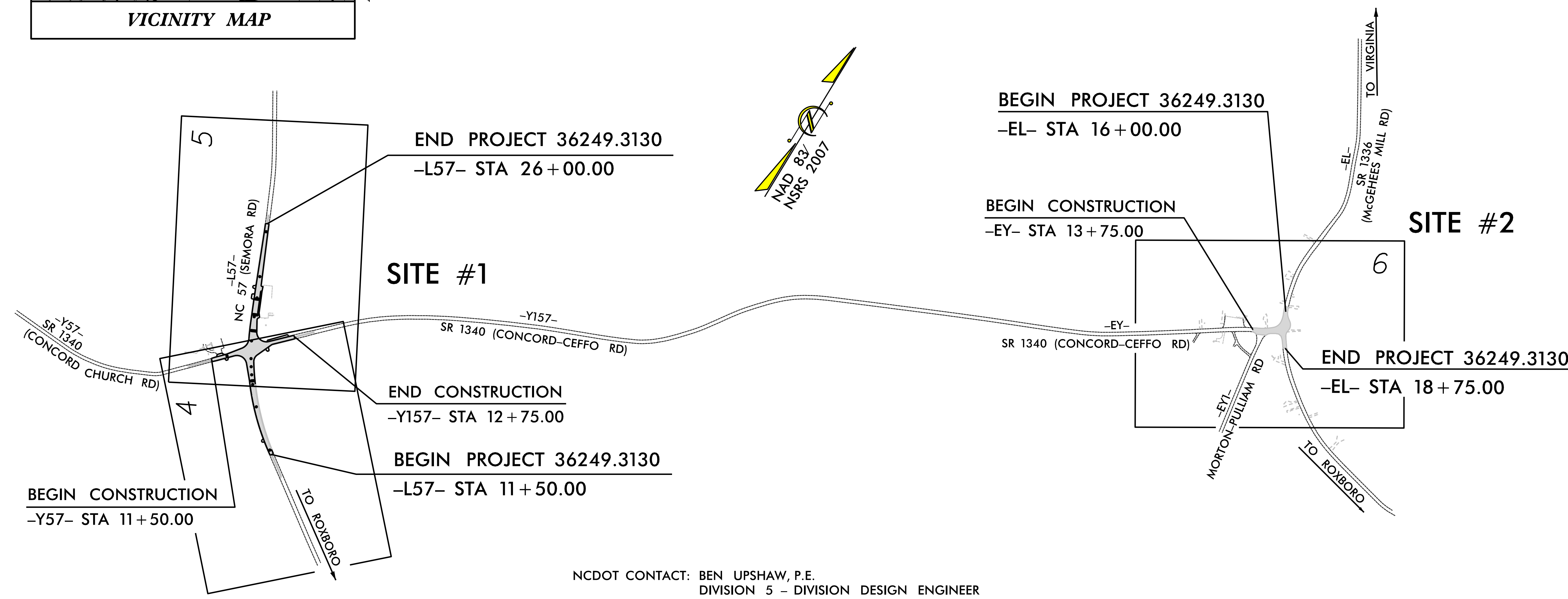
**PERSON COUNTY**

**LOCATION: SITE #1 - INTERSECTION OF NC 57 (SEMORA ROAD) AND SR 1340 (CONCORD CHURCH ROAD/CONCORD-CEFFO RD) NEAR ROXBORO**

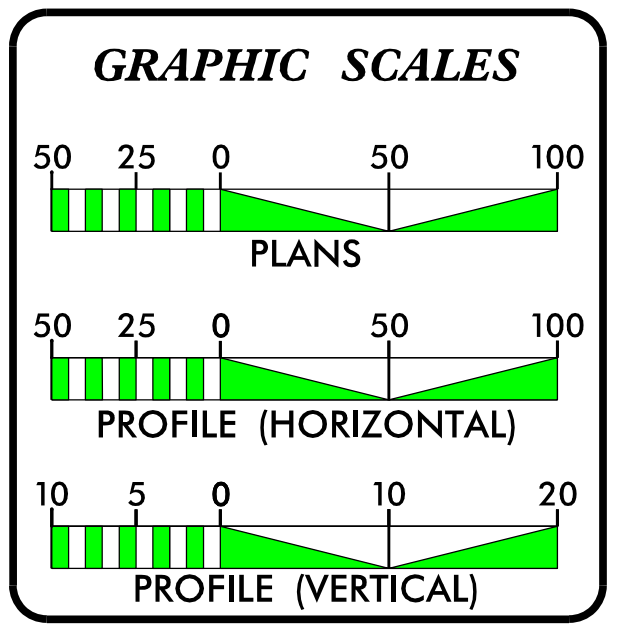
**SITE #2 - INTERSECTION OF SR 1336 (MCGHEES MILL ROAD) AND SR 1340 (CONCORD-CEFFO RD) NEAR ROXBORO**

**TYPE OF WORK: UTILITY BY OTHERS**

T.I.P. NO.	SHEET NO.
36249.3130	UO-1



NCDOT CONTACT: BEN UPSHAW, P.E.  
DIVISION 5 - DIVISION DESIGN ENGINEER



**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-1A	GENERAL NOTES
UO-1B	CONVENTIONAL PLAN SHEET SYMBOLS
UO-04 THRU UO-06	UBO PLAN SHEETS

**UTILITY OWNERS ON PROJECT**

(A)	PIEDMONT ELECTRIC - POWER DISTRIBUTION
(B)	PROGRESS ENERGY OF NC - POWER DISTRIBUTION
(C)	PSNC ENERGY - NATURAL GAS
(D)	CENTURY LINK
(E)	CHARTER COMMUNICATIONS

PREPARED IN THE OFFICE OF:  
DIVISION OF HIGHWAYS  
UTILITIES UNIT  
UTILITIES ENGINEERING SECTION

1591 MAIL SERVICES CENTER  
RALEIGH, NC 27699-1591  
PHONE (919) 707-6690  
FAX (919) 250-4119

Roger Worthington, P.E.	UTILITIES SECTION ENGINEER
Steve McKee, P.E.	UTILITIES SQUAD LEADER PROJECT ENGINEER
John Nigro, P.E.	UTILITIES PROJECT DESIGNER



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CONVENTIONAL PLAN SHEET SYMBOLS

*Note: Not to Scale*

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

**BOUNDARIES AND PROPERTY:**

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
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	--- WLB ---
Proposed Wetland Boundary	--- WLB ---
Existing Endangered Animal Boundary	--- EAB ---
Existing Endangered Plant Boundary	--- EPB ---
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	☠ ☠

**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:**

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	○
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	-----
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	--- 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	○
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	-----

**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	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	-----

**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.*)	-----

**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	-----

**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.*)	-----

**GAS:**

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	-----

**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.*)	-----

**MISCELLANEOUS:**





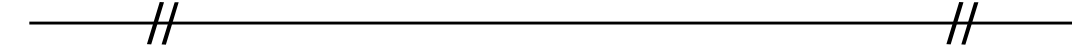


Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility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



# UTILITY CONTACTS

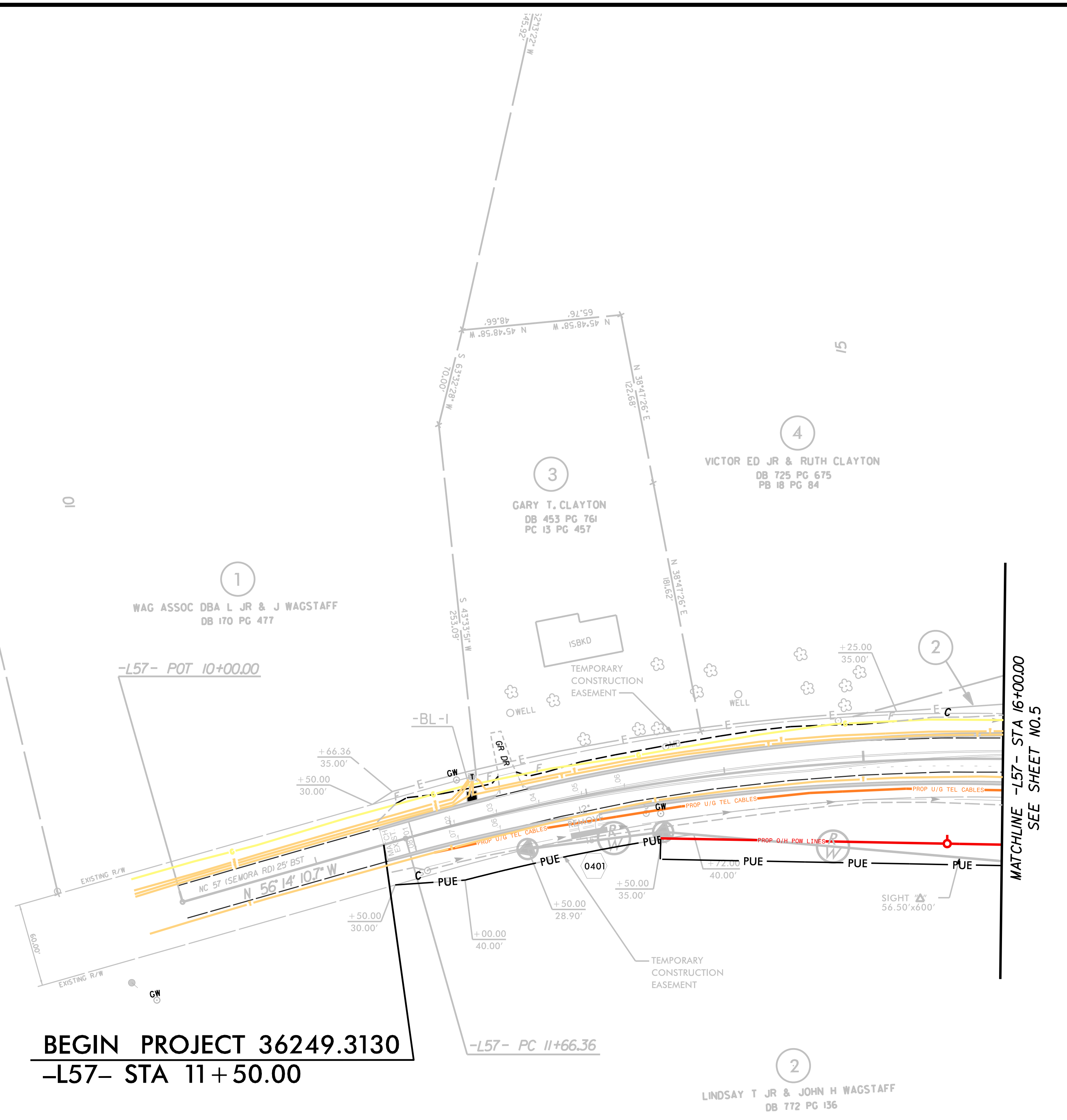
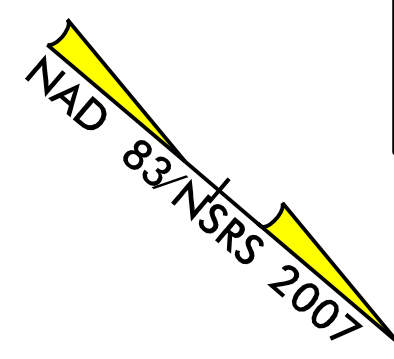
UTILITY	CONTACT NAME	CONTACT PHONE NUMBER
PIEDMONT ELECTRIC	BARRY BRADSHER	(336) 599-0151
PROGRESS ENERGY OF NC	TOM EDWARDS	(919) 882-5046
PSNC ENERGY (NATURAL GAS)	DUNCAN WARREN	(919) 367-2715
CENTURY LINK	JOE OLEJAR	(919) 563-8141
CHARTER COMMUNICATIONS	JON GRANT	(910) 803-0620

# LEGEND

	PROPOSED OVERHEAD POWER LINE (DUKE ENERGY)
	PROPOSED OVERHEAD POWER/TELEPHONE/FIBER OPTIC LINES (DUKE ENERGY/NORTH STATE COMMUNICATIONS)
	PROPOSED OVERHEAD POWER/TELEPHONE LINES (DUKE ENERGY/AT&T)
	PROPOSED GAS LINE
	EXISTING UTILITY TO BE ABANDONED IN PLACE (BY CORRESPONDING UTILITY COMPANY)
	EXISTING UTILITY POLE TO BE REMOVED (BY CORRESPONDING UTILITY COMPANY)
	EXISTING UTILITY POLE TO BE RENEWED (BY CORRESPONDING UTILITY COMPANY)

**UTILITY BY OTHERS**

**NOTE:**  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



**BEGIN PROJECT 36249.3130**  
**-L57- STA 11+50.00**

**MATCHLINE -L57- STA 16+00.00**  
**SEE SHEET NO.5**

5/14/99

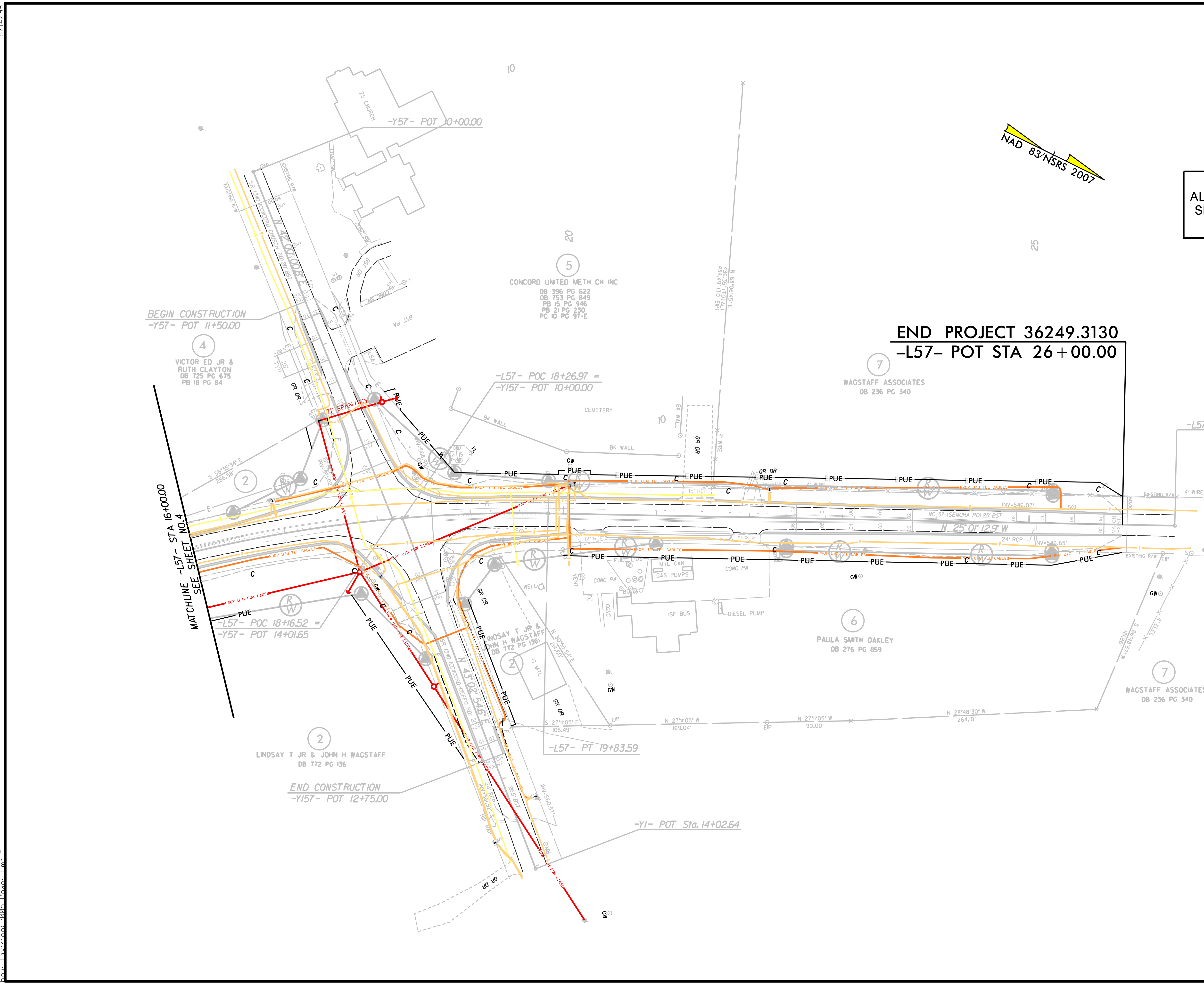
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b Bor-hour, Division 5005 - Power - L&P





**UTILITY BY OTHERS**

**NOTE:**  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



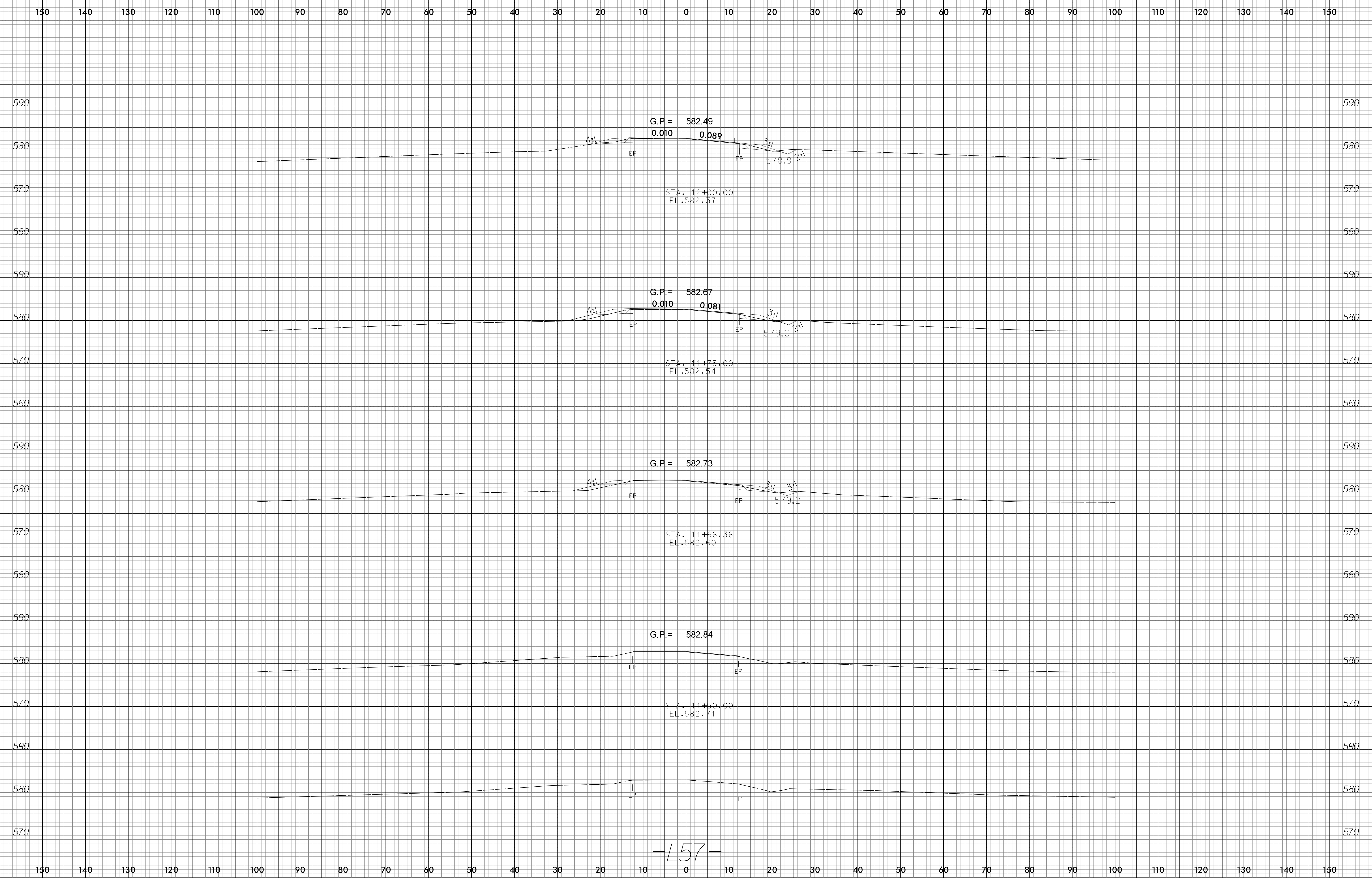
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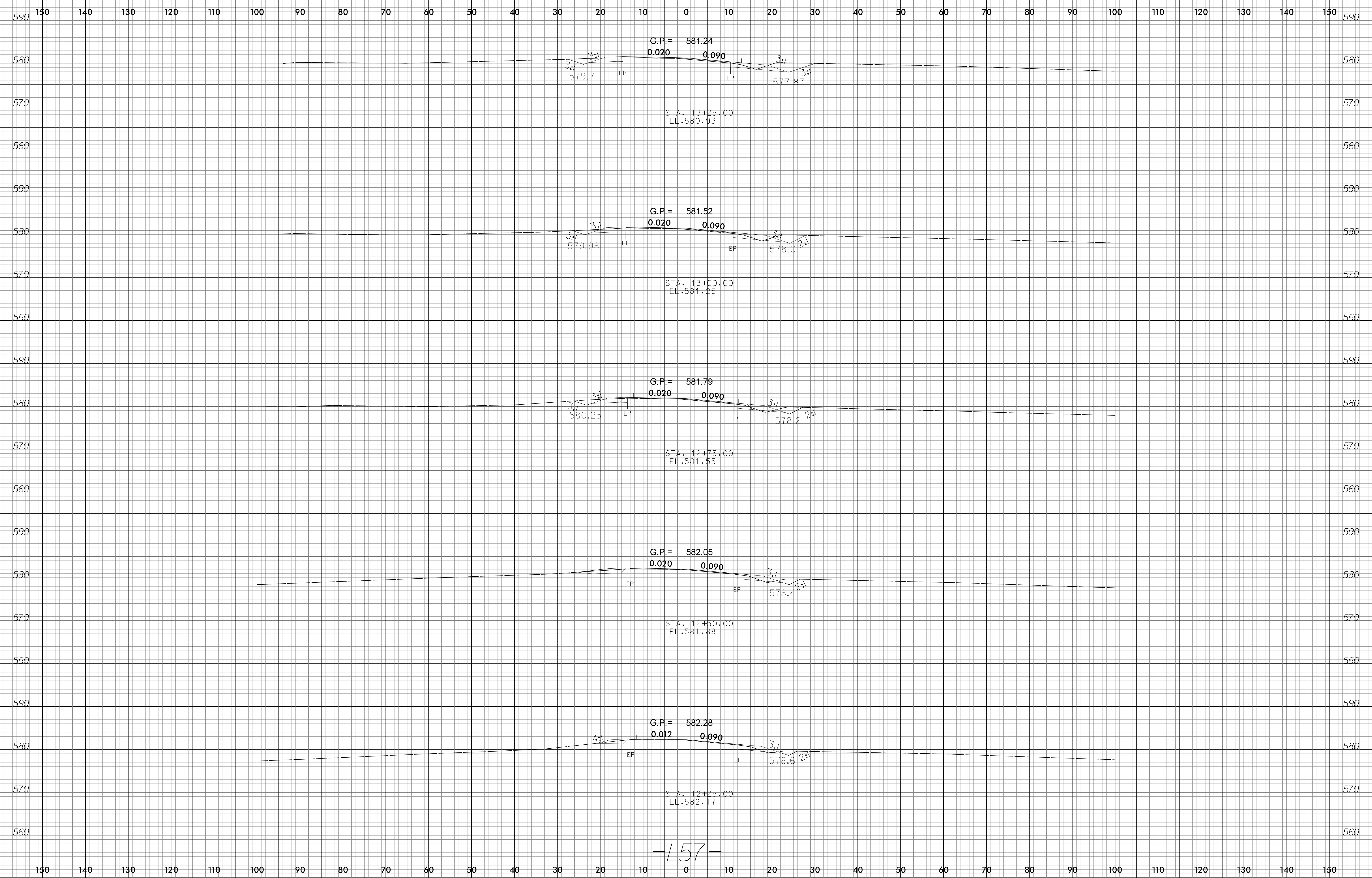
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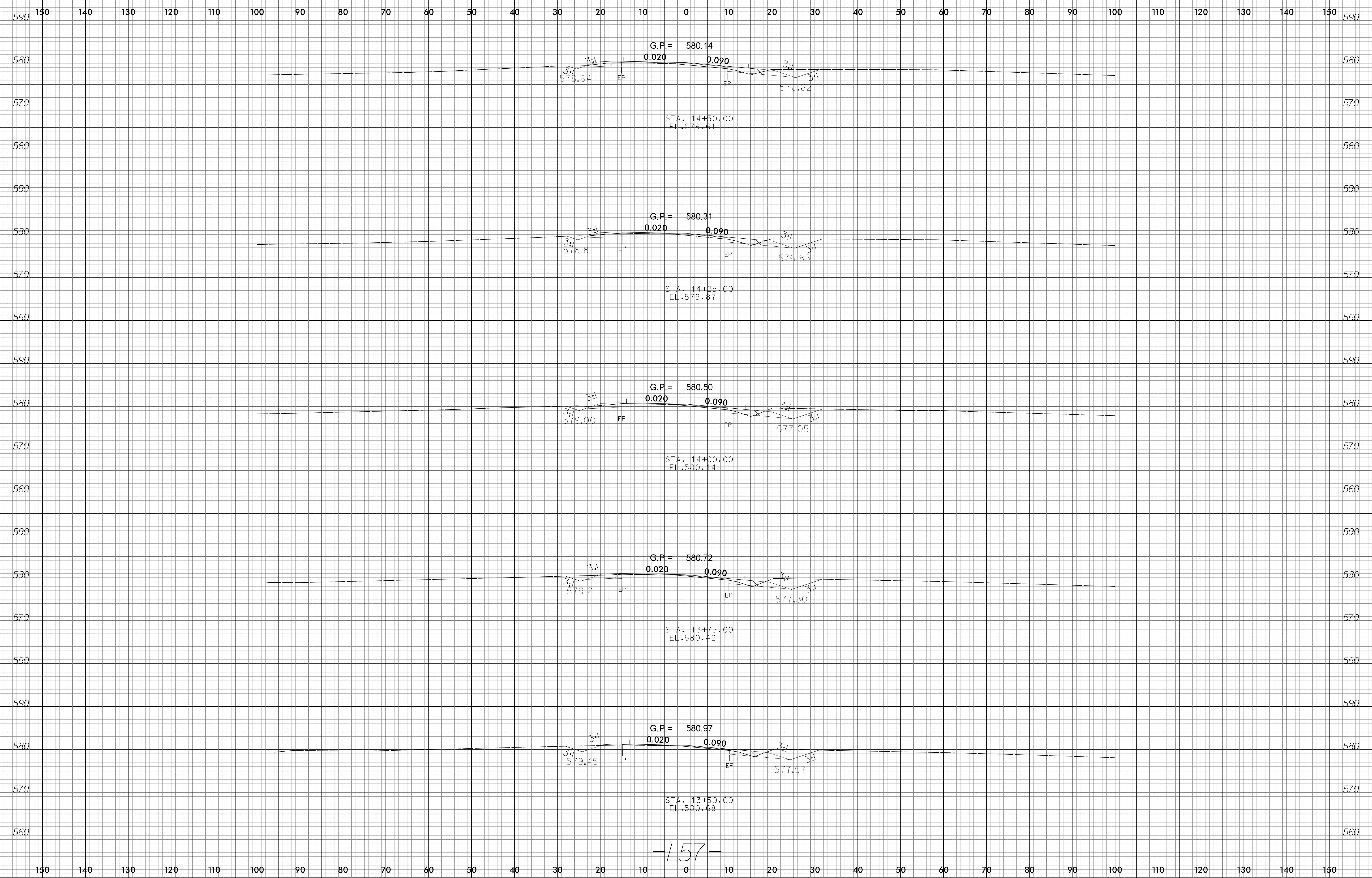


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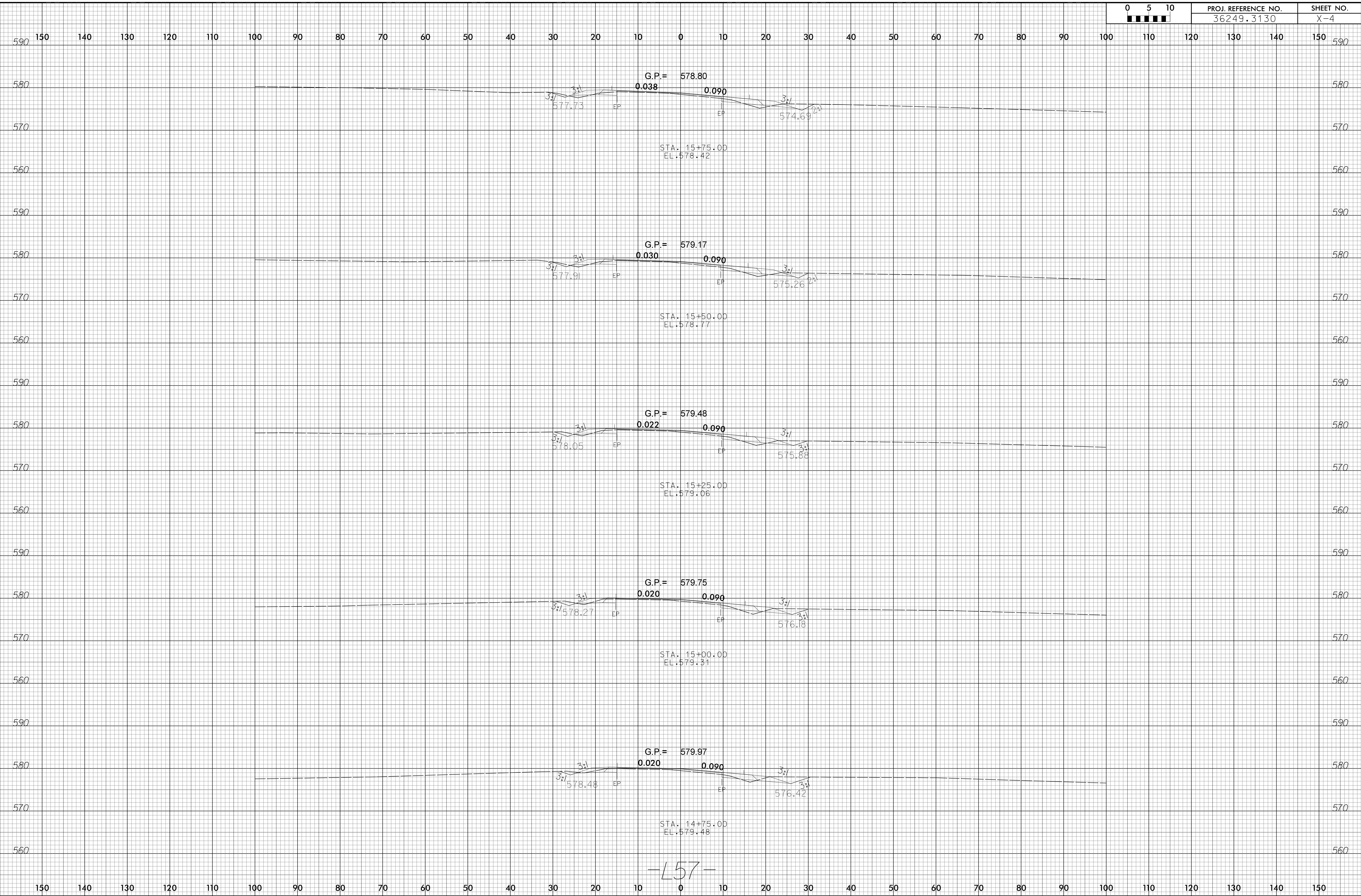


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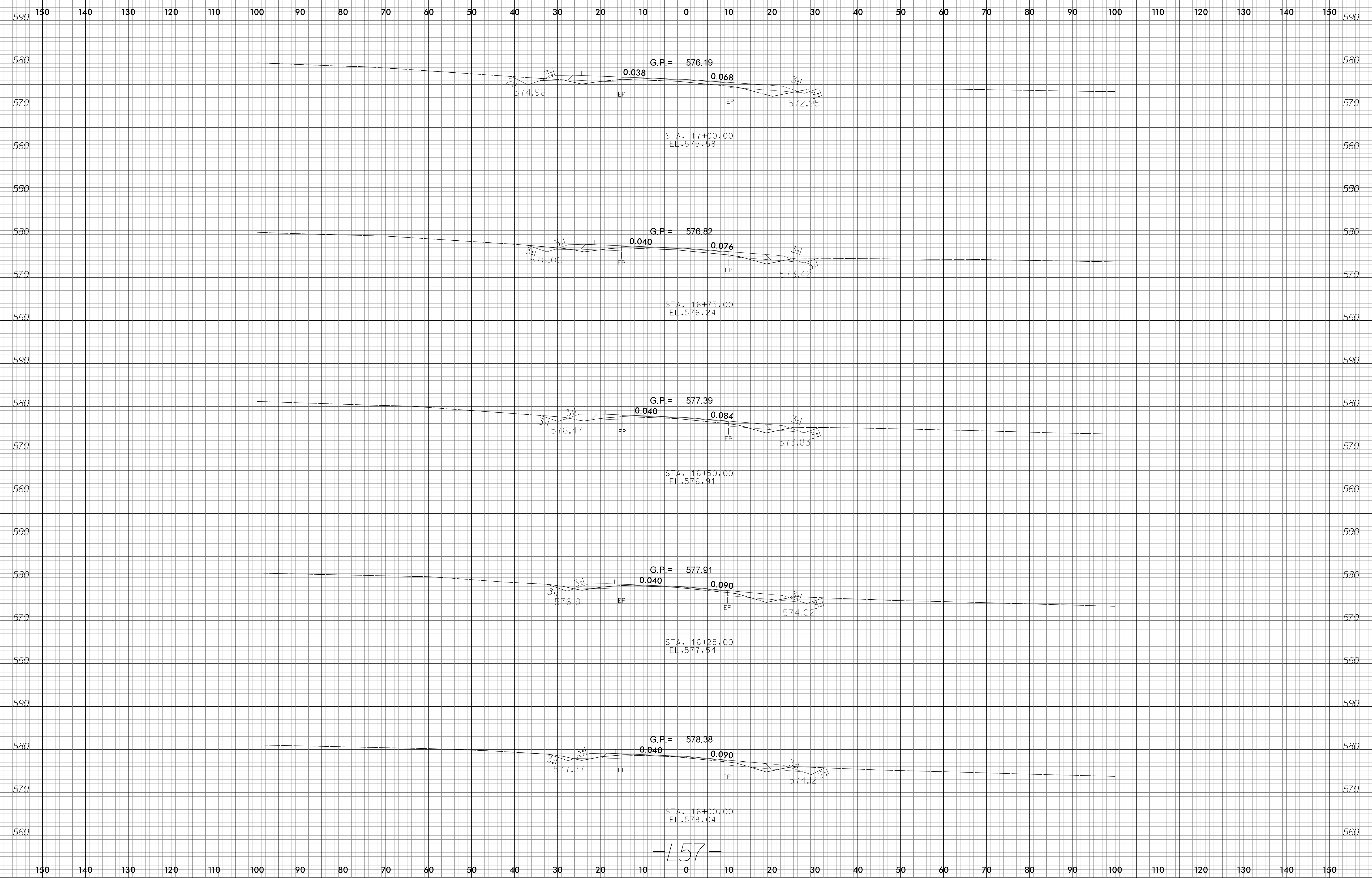
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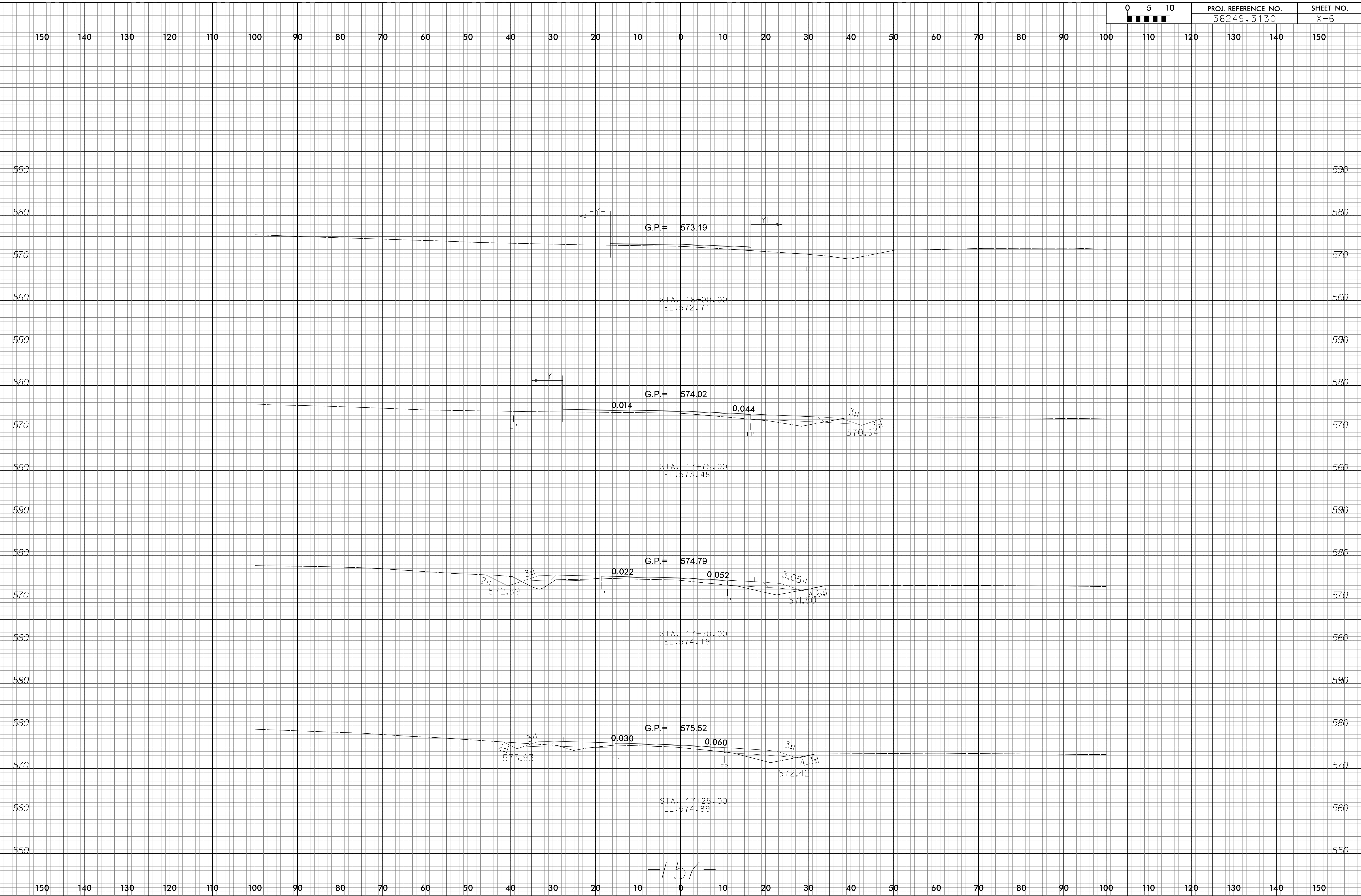
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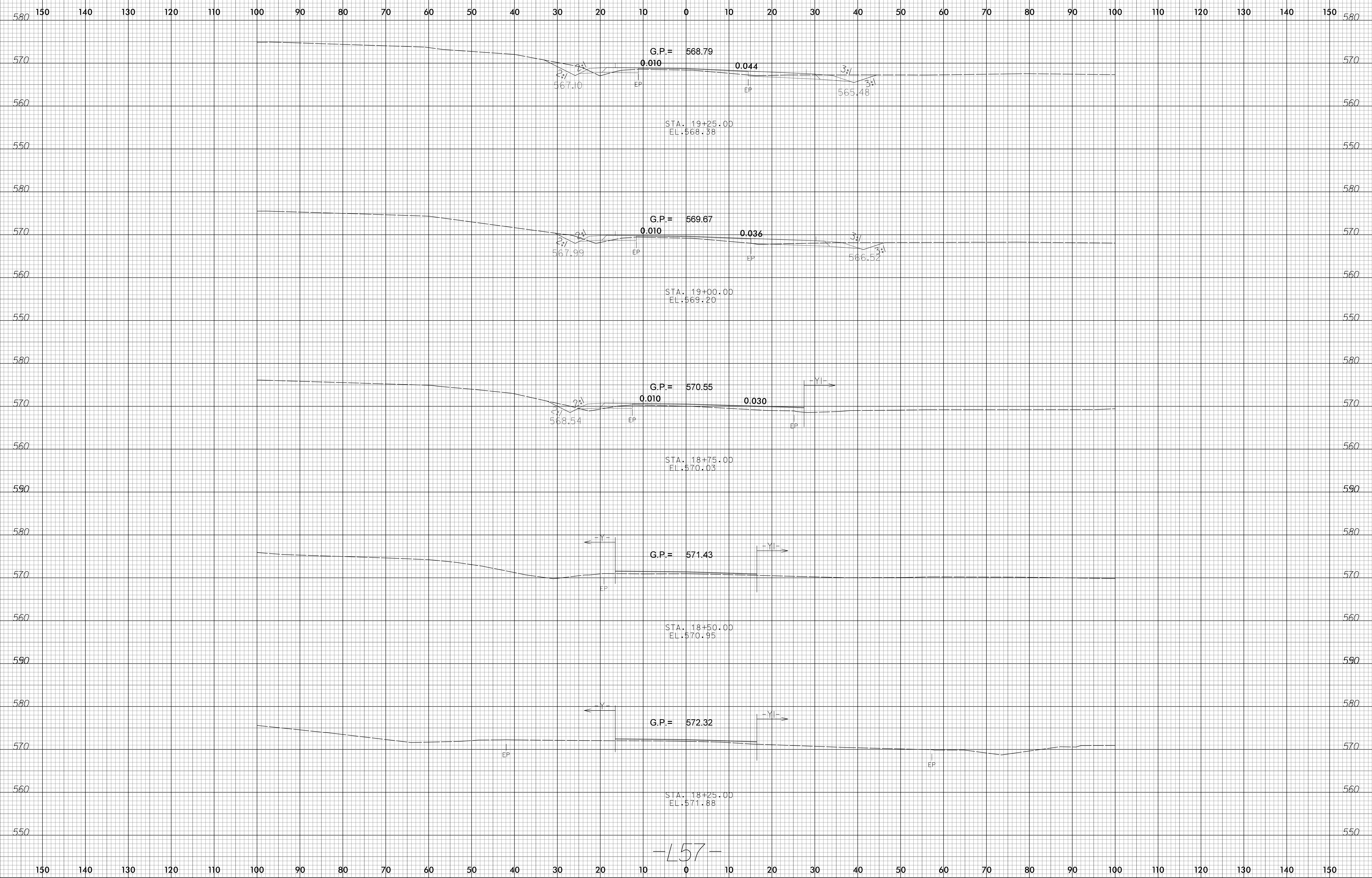


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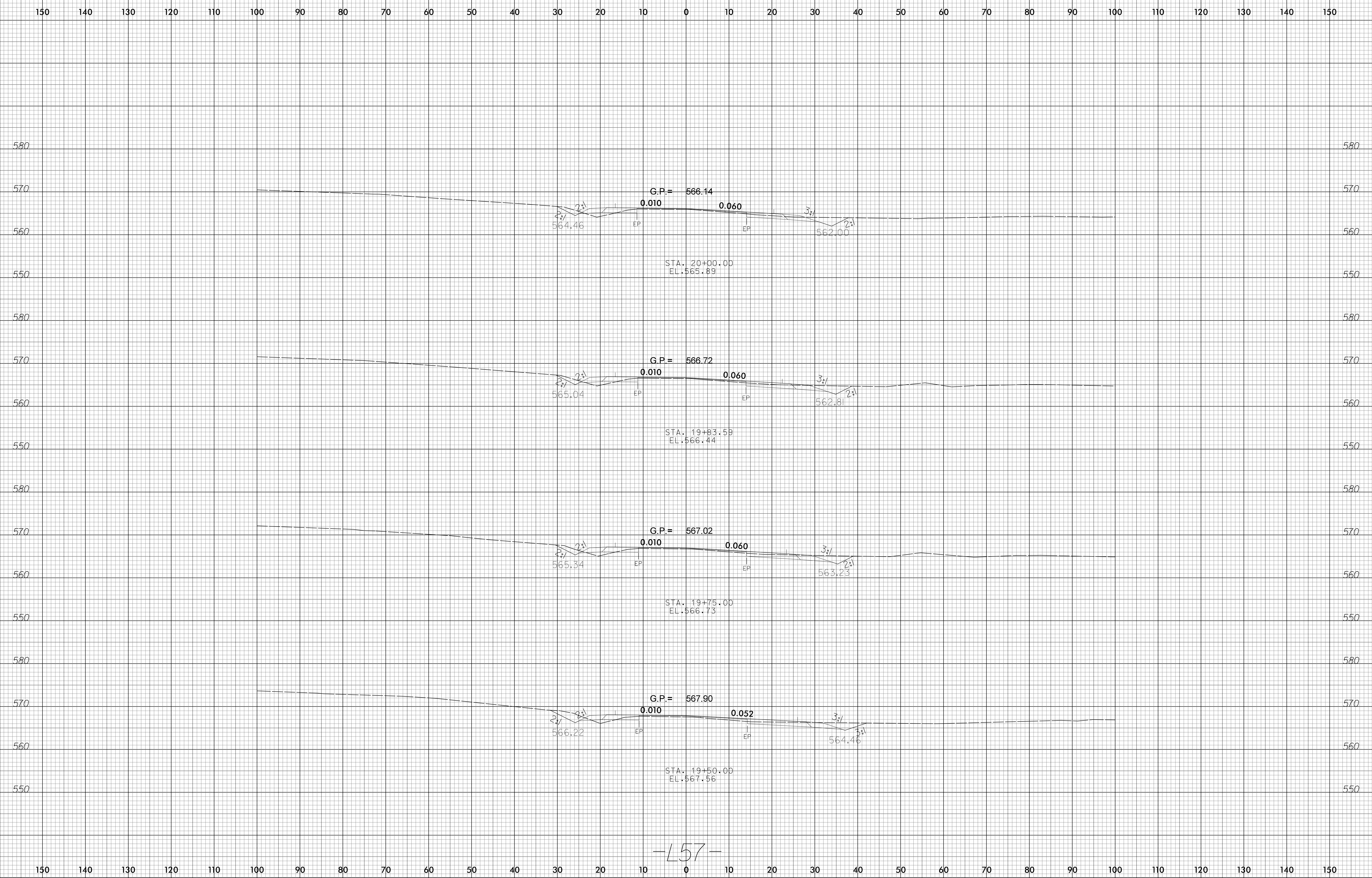
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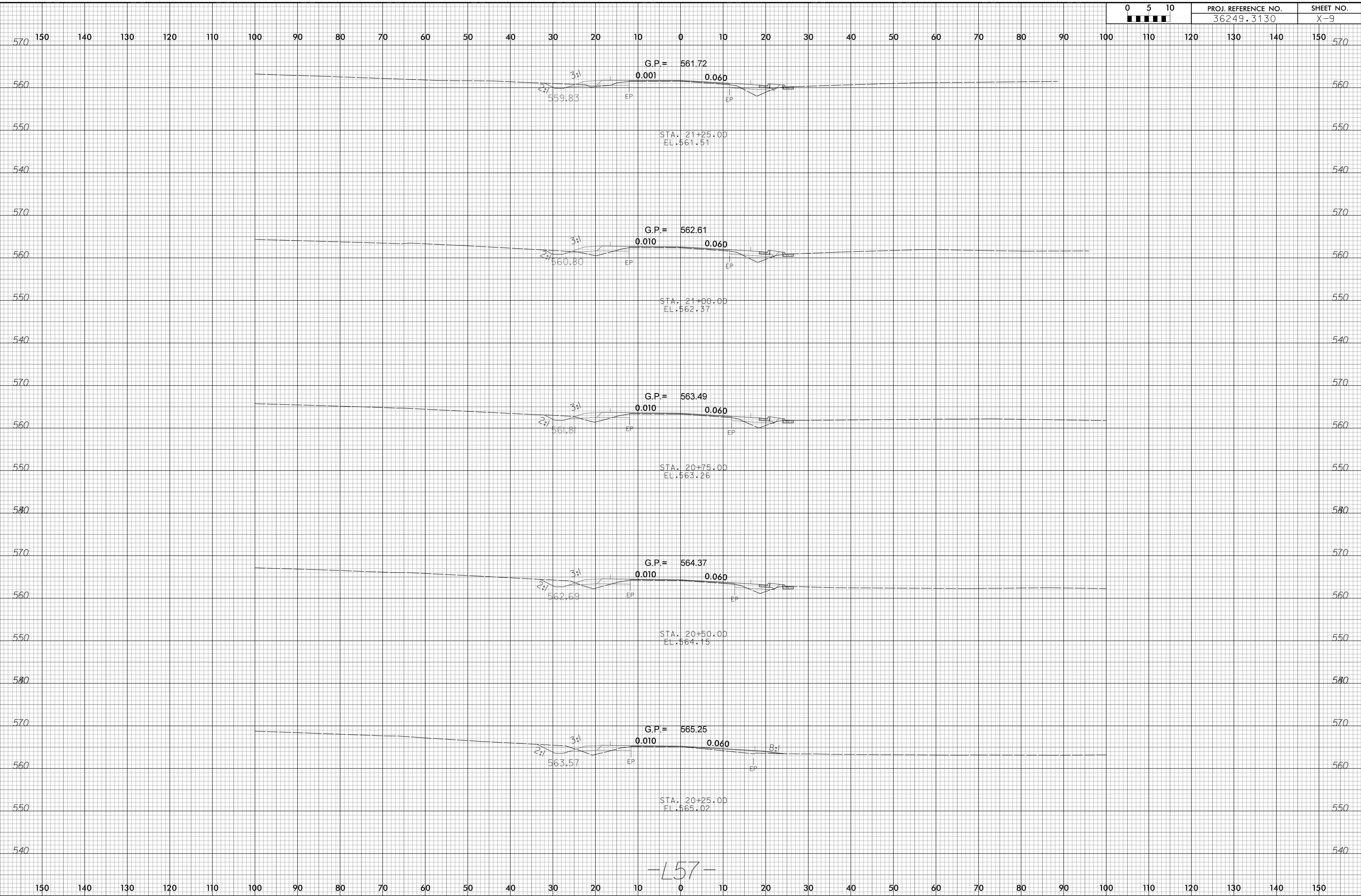
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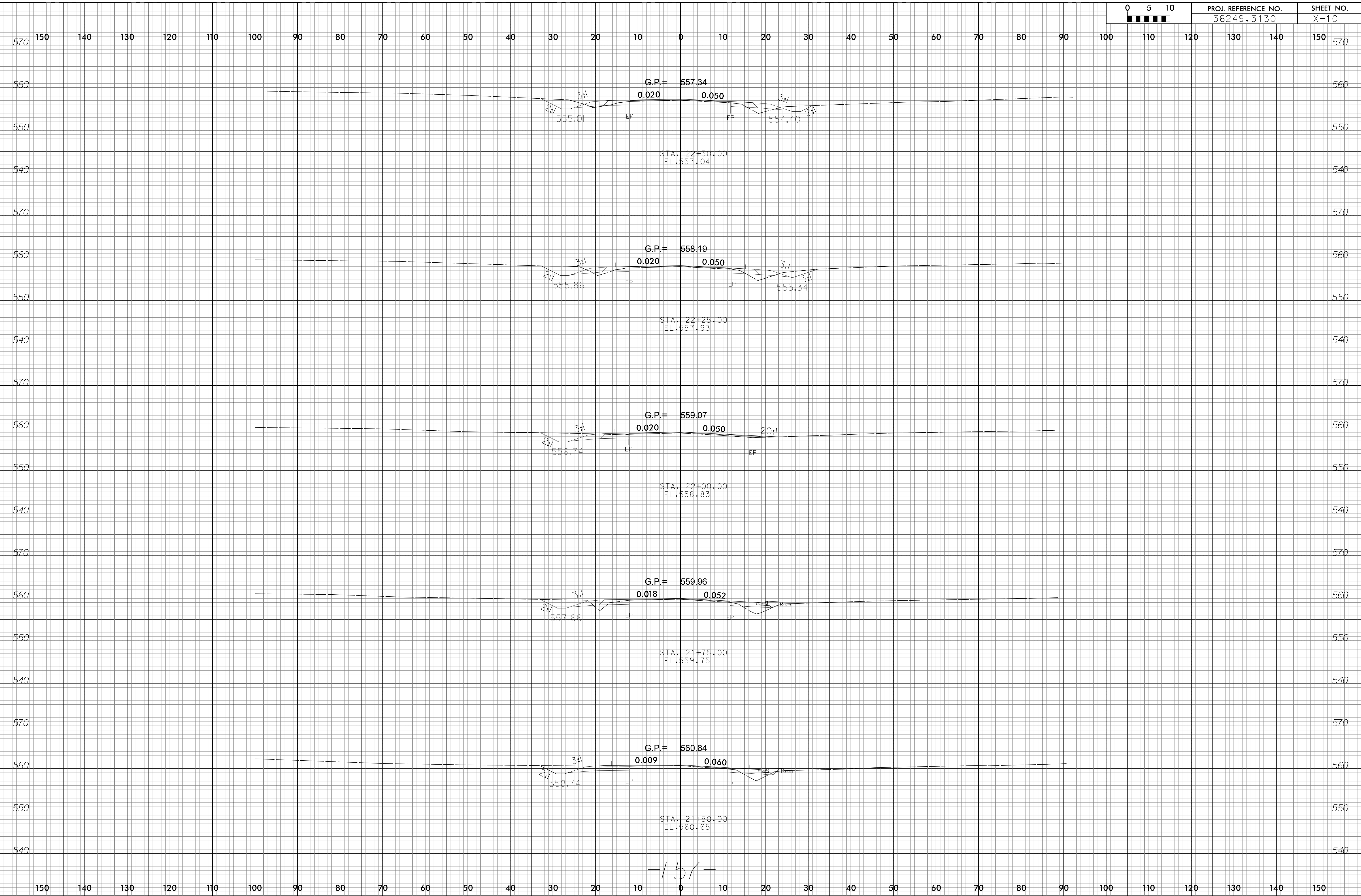
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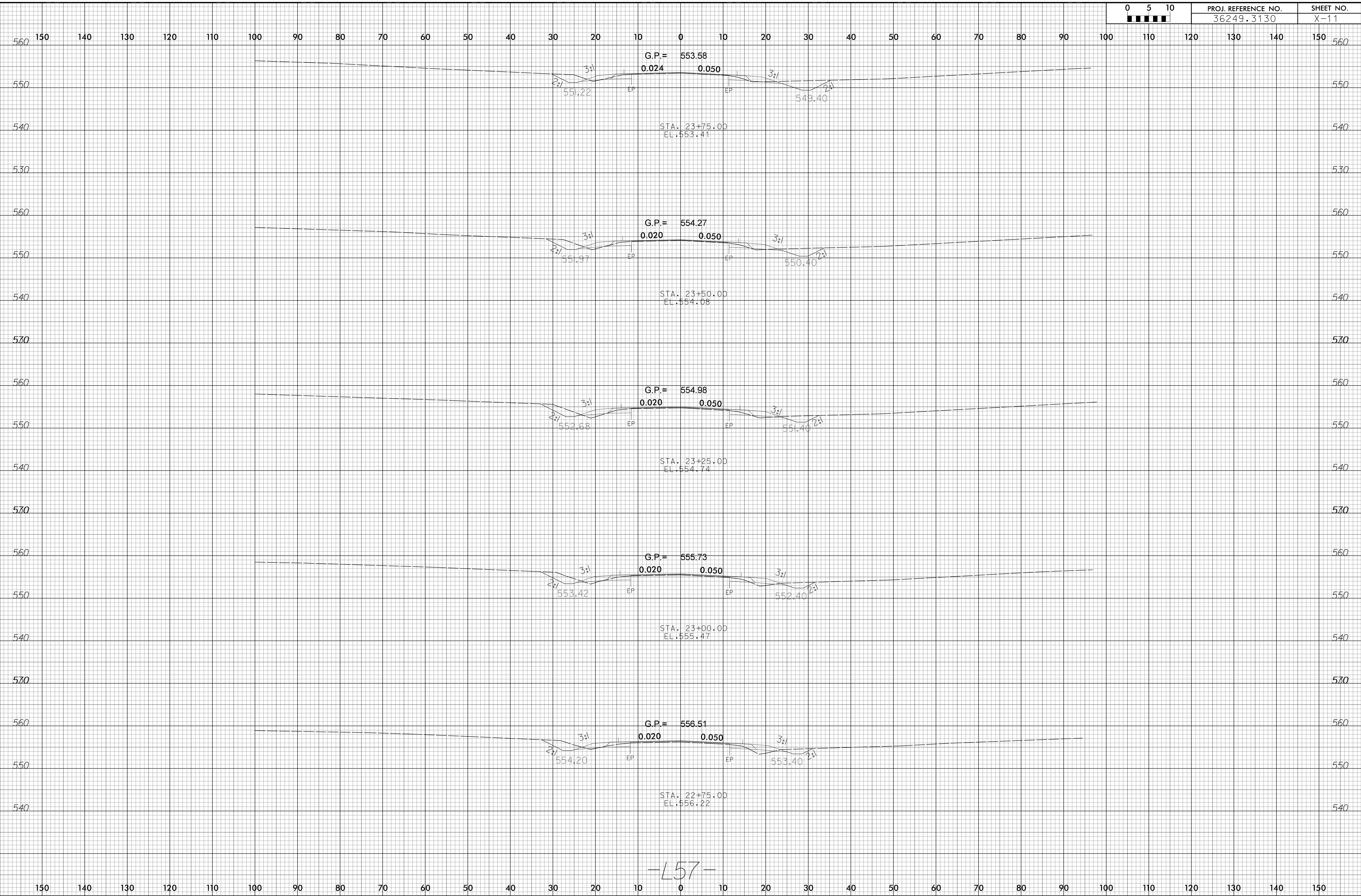


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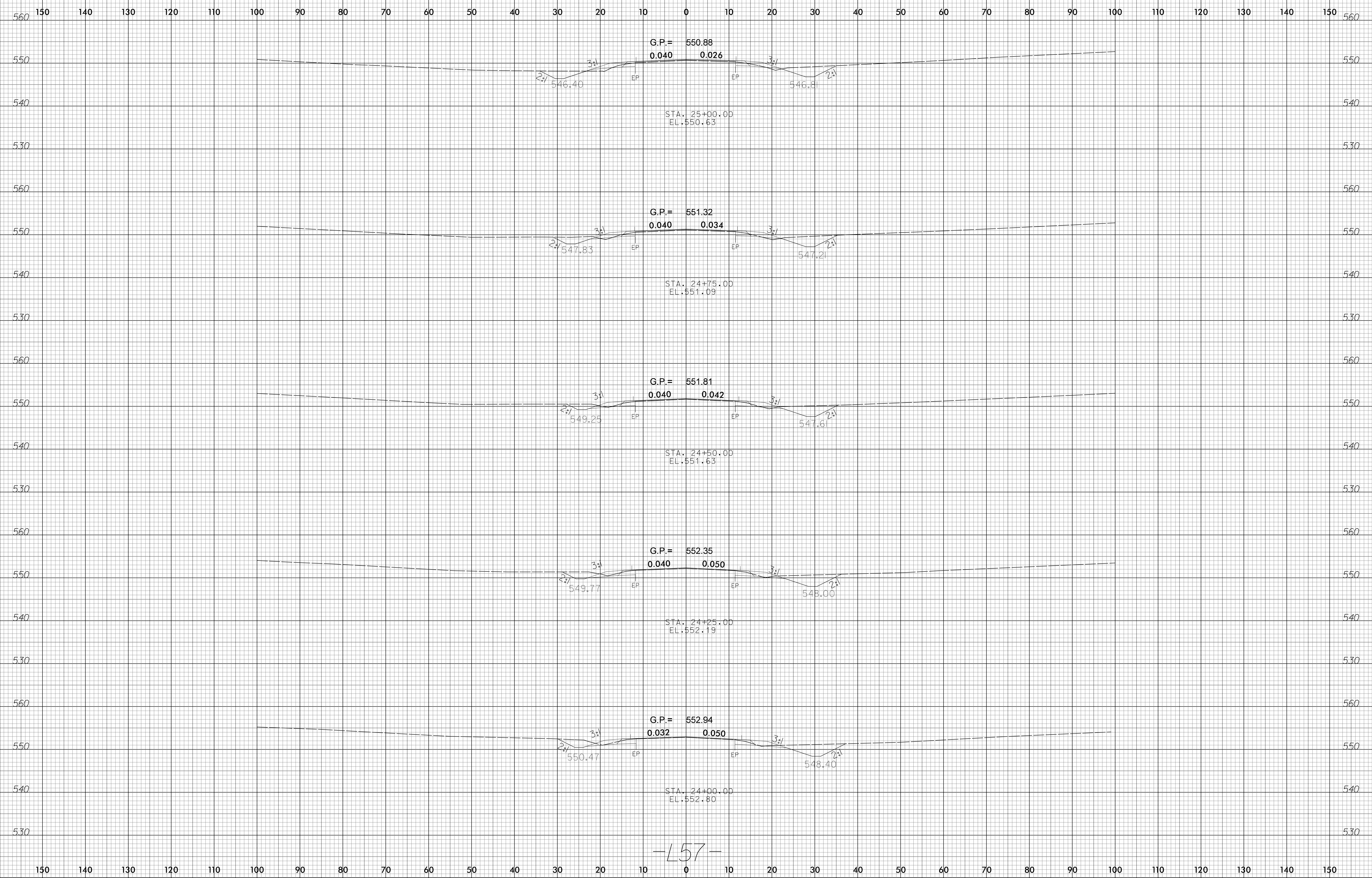
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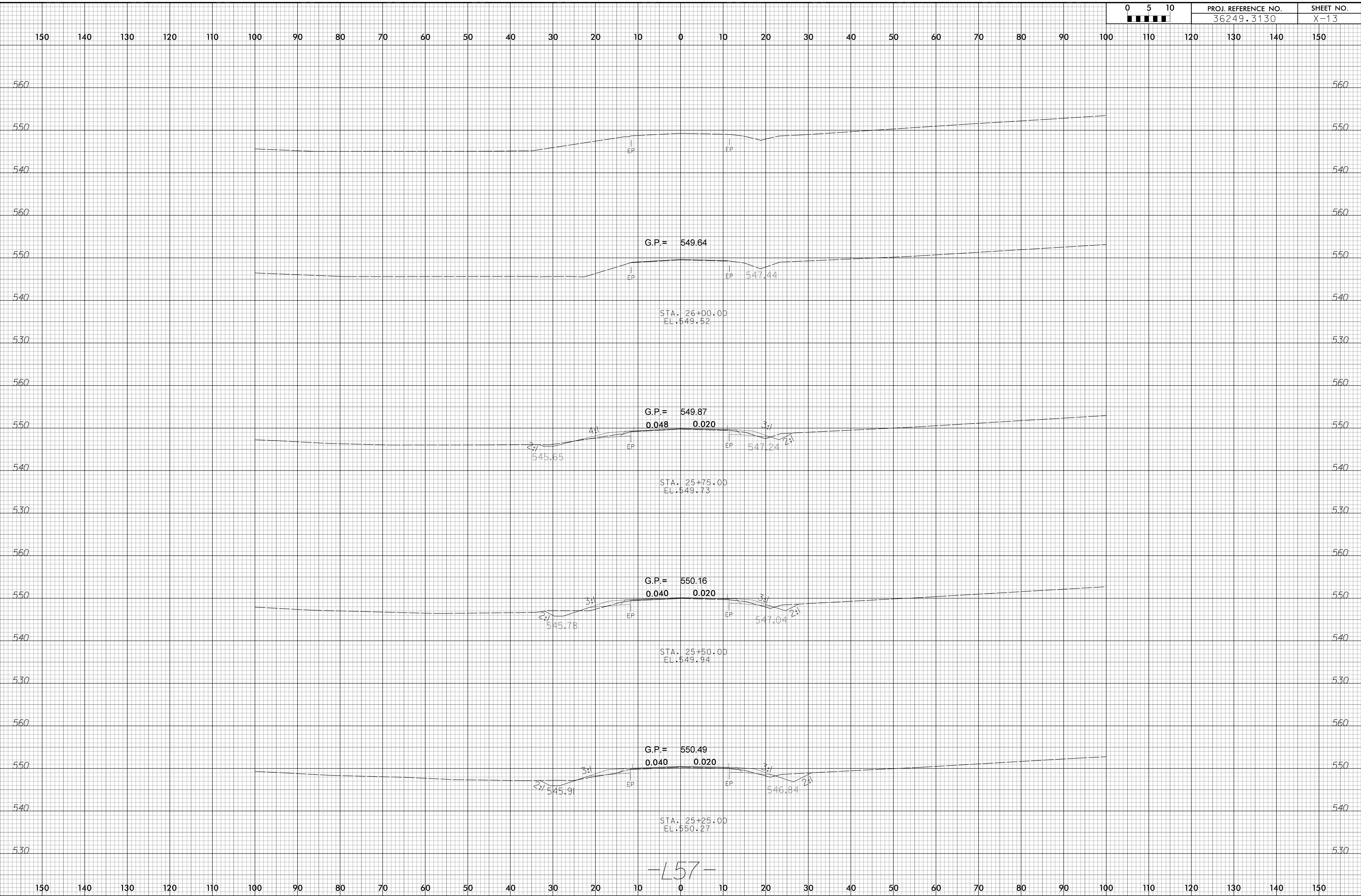
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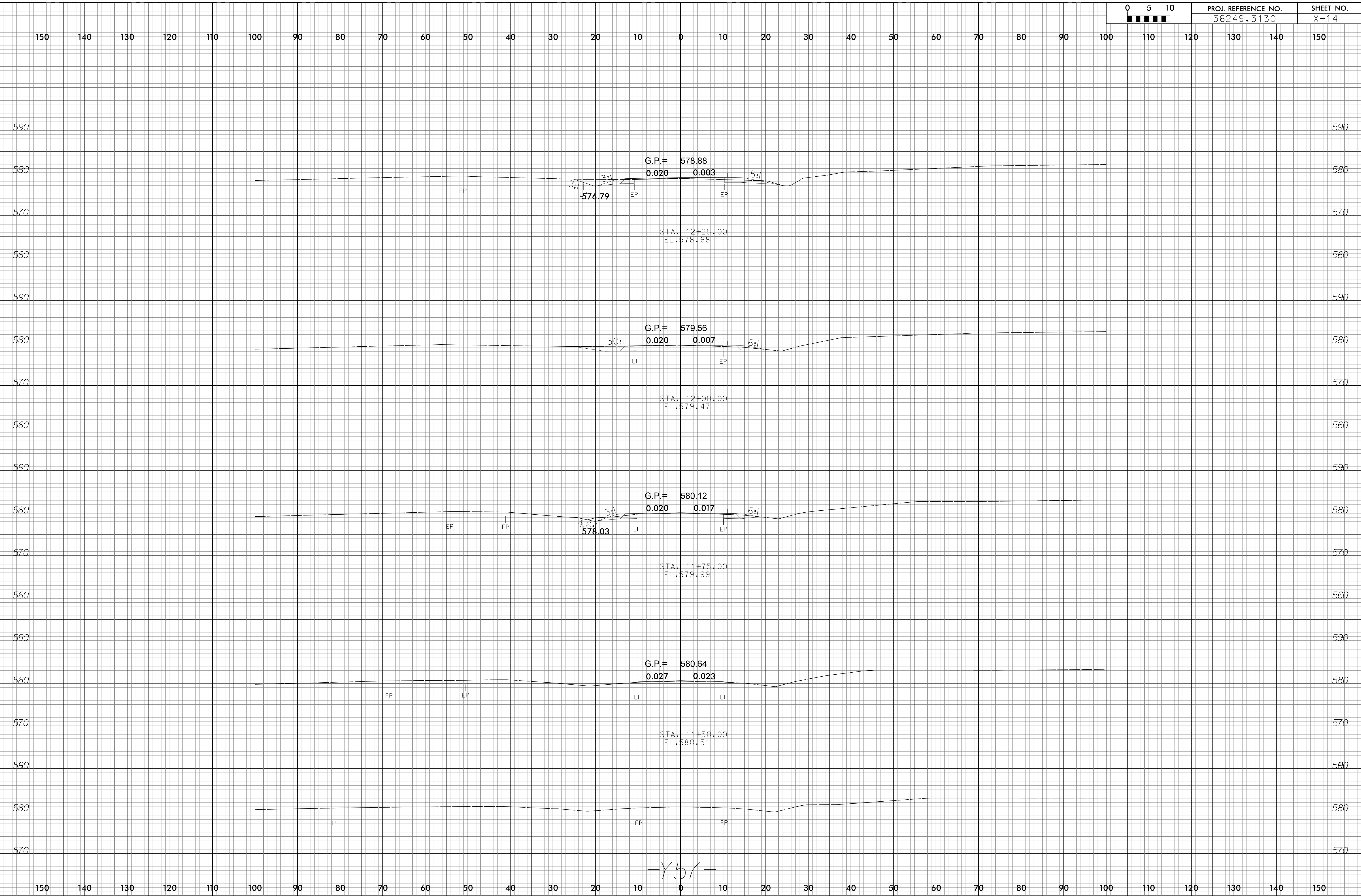
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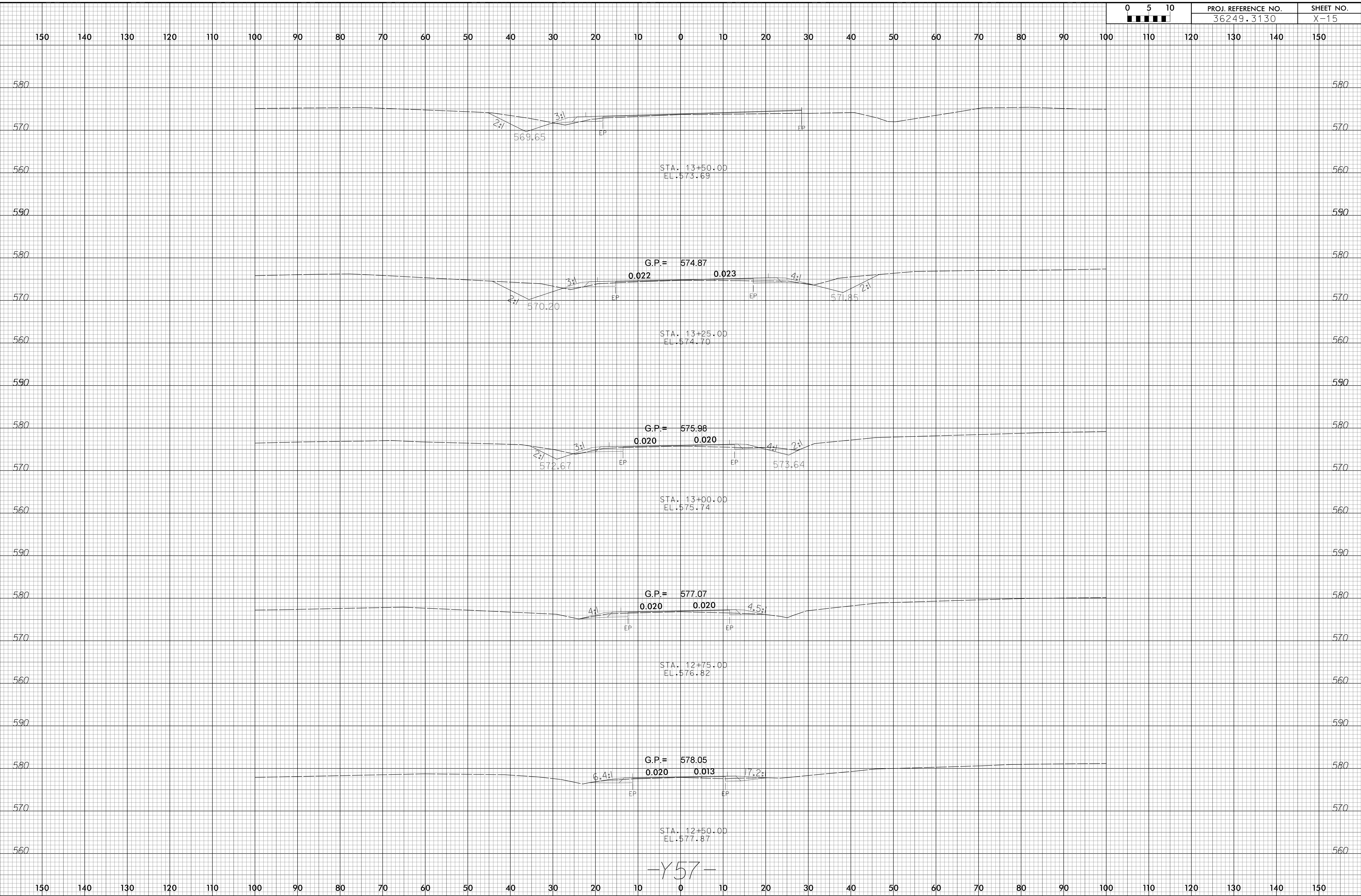
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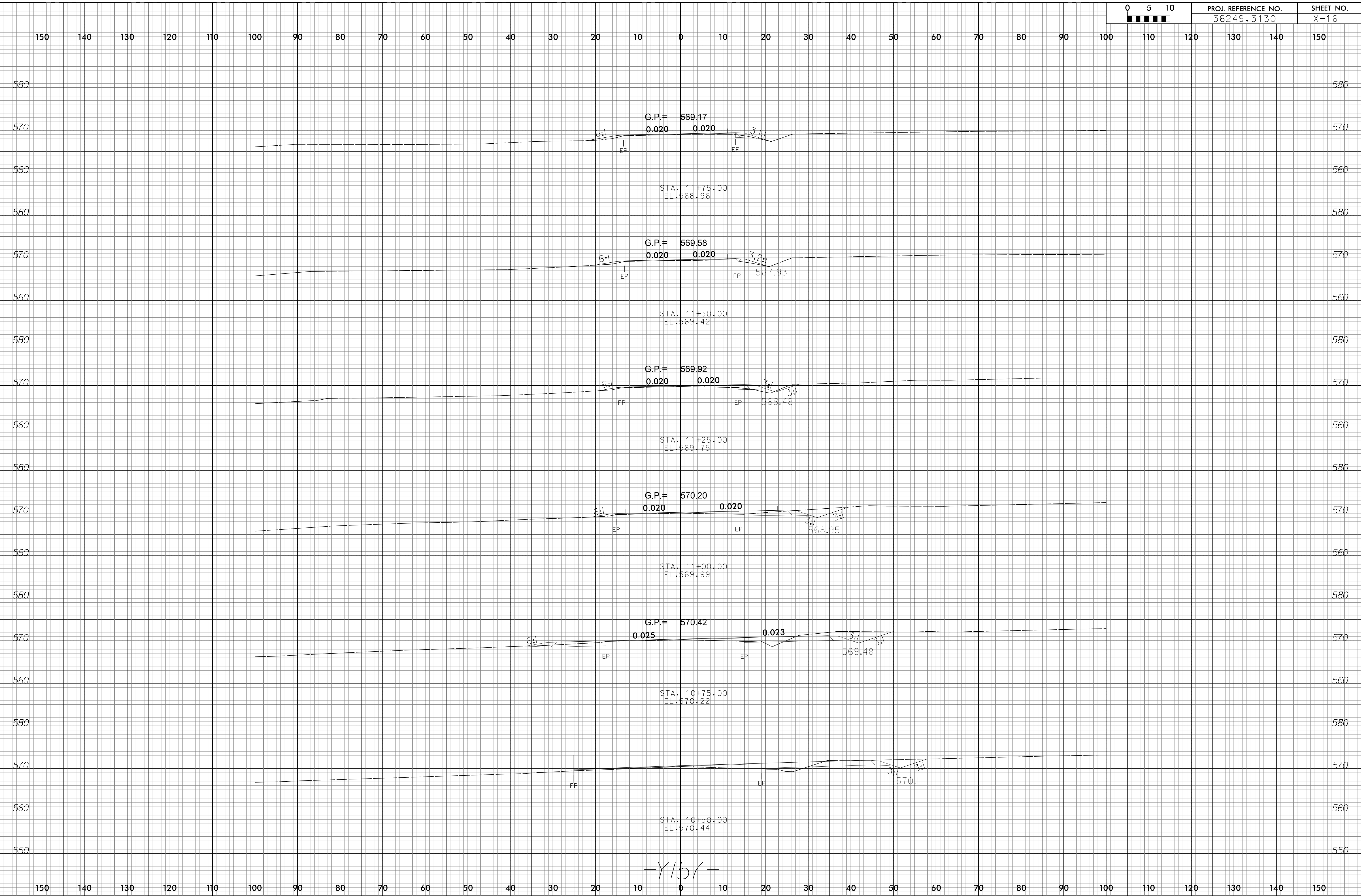


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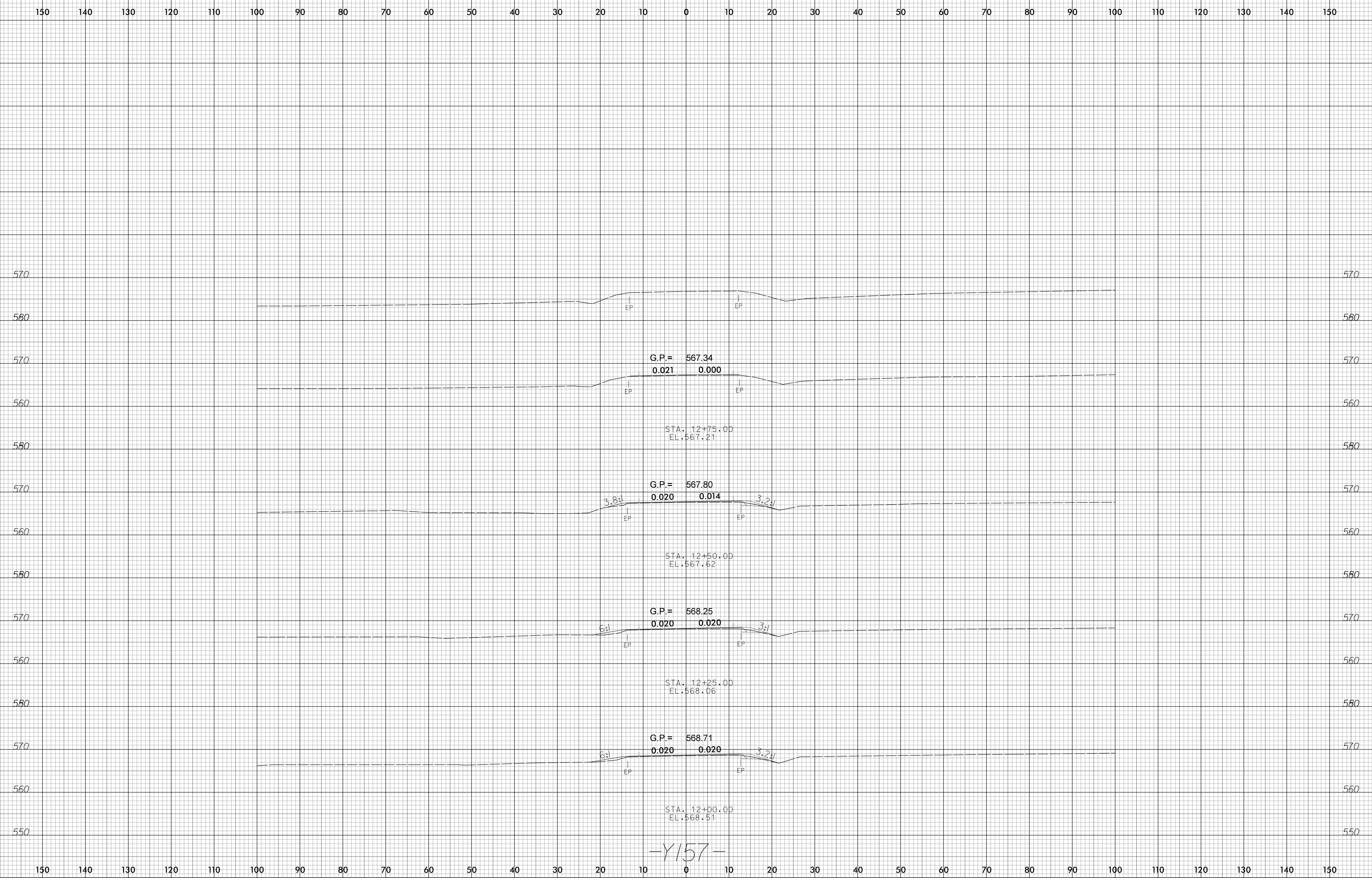
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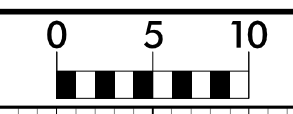
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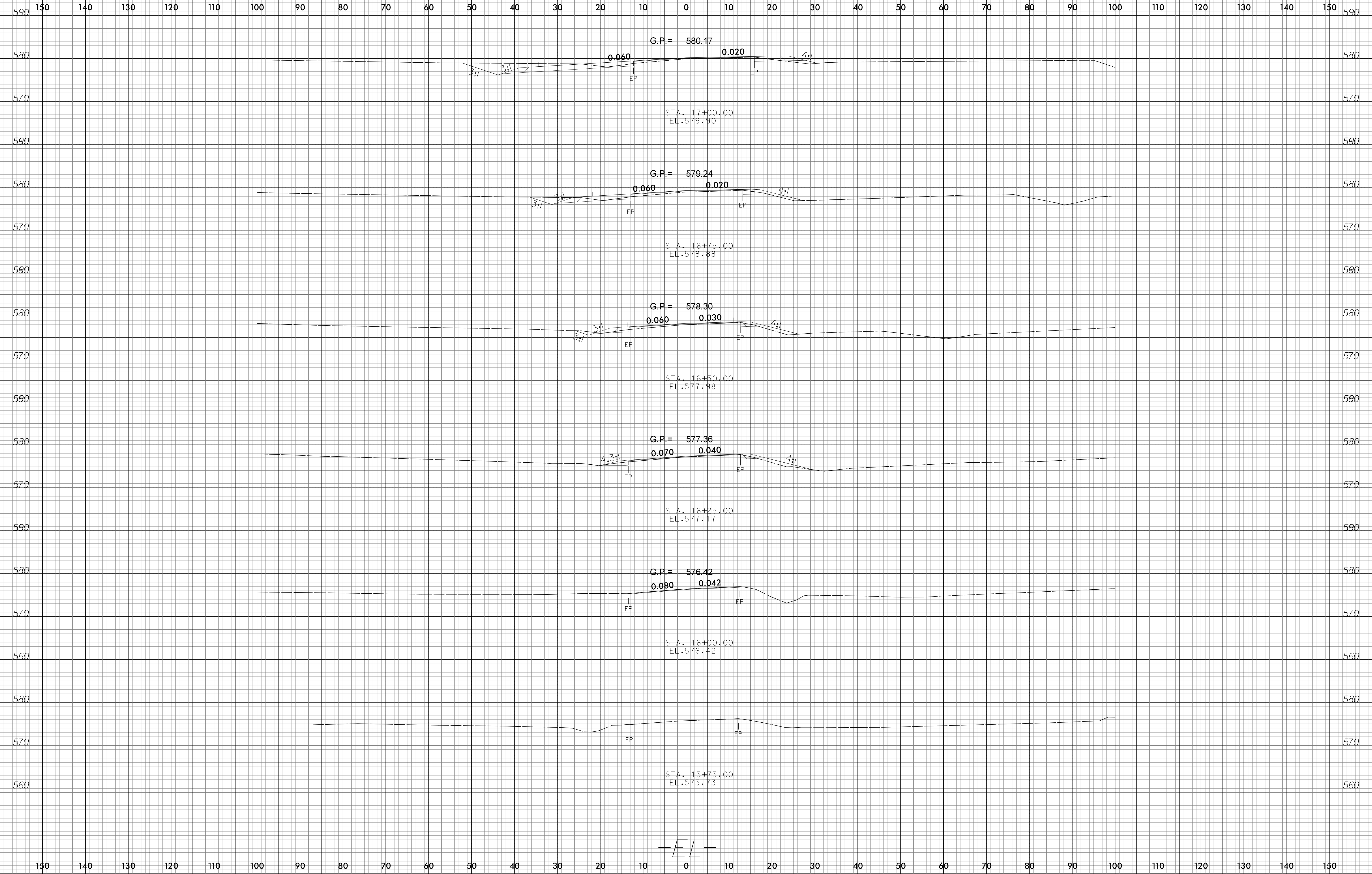
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PROJ. REFERENCE NO.  
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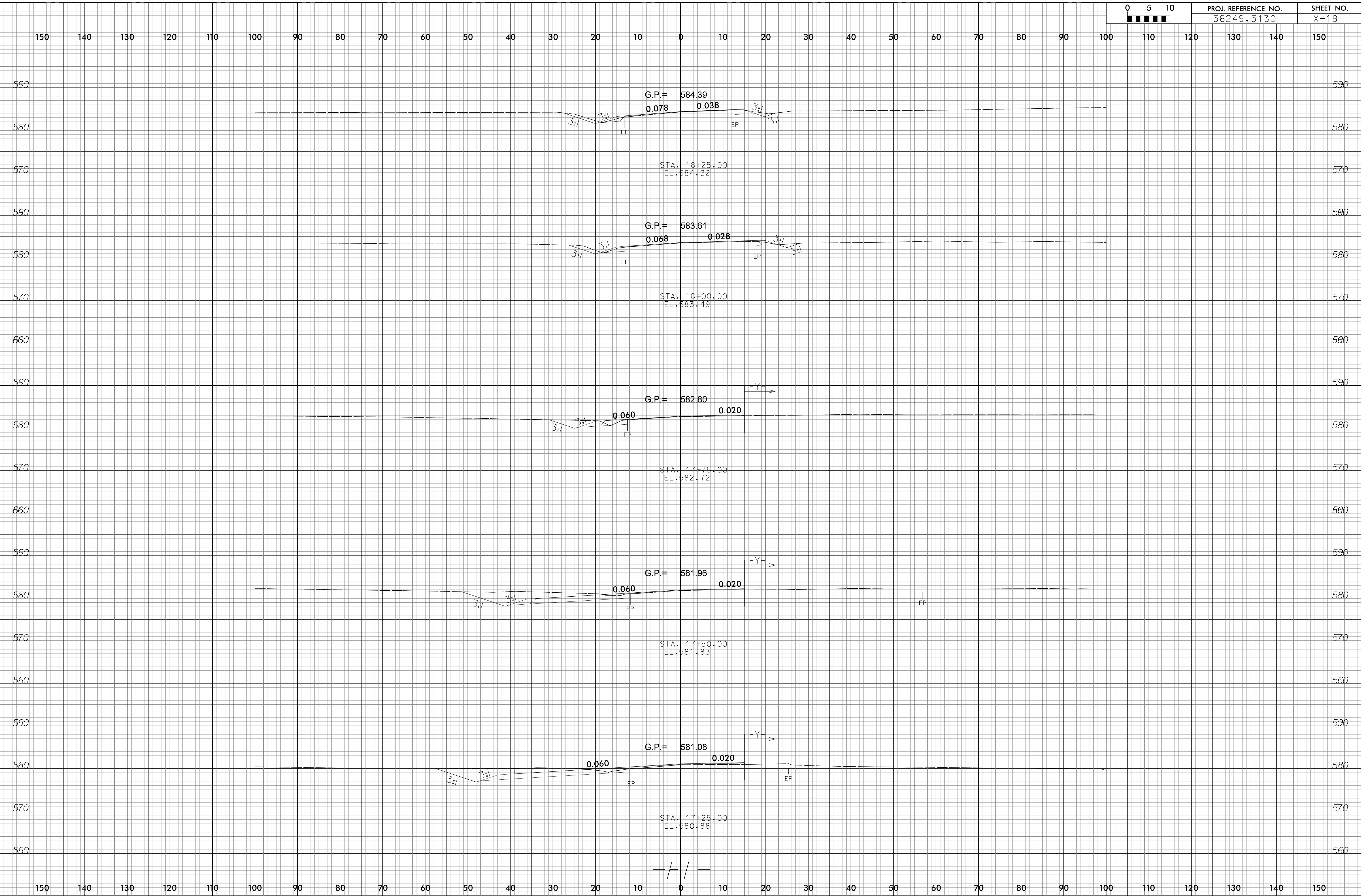
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7/31/2013  
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JSE/ML



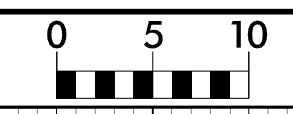
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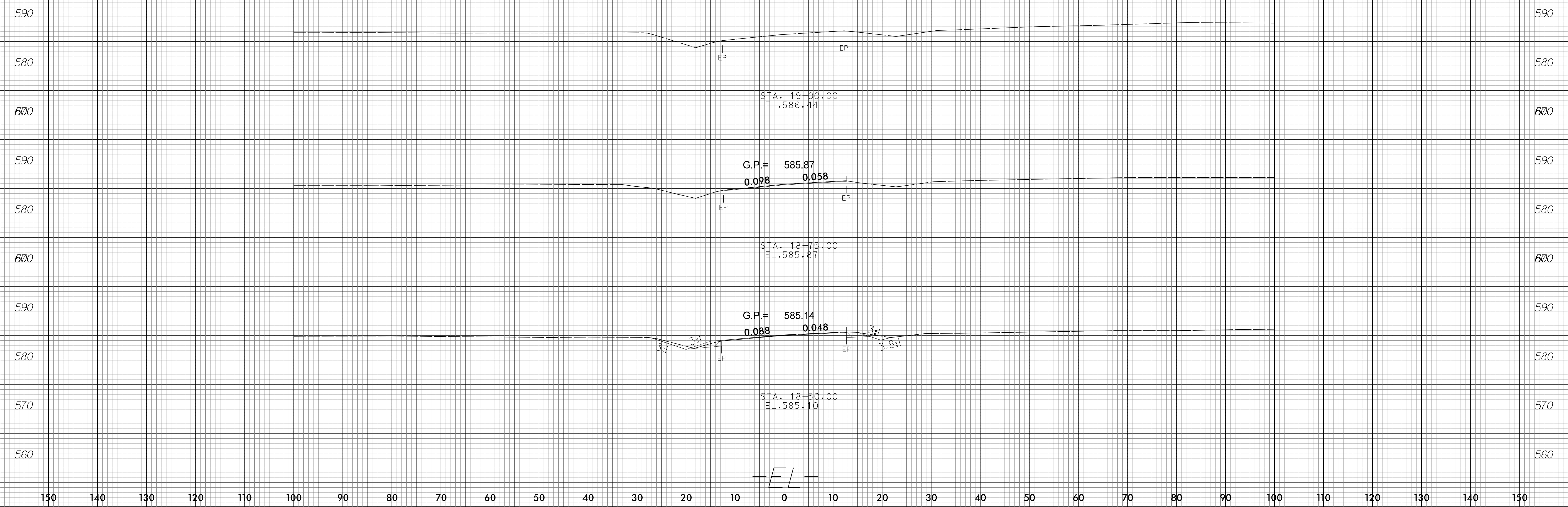
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PROJ. REFERENCE NO.  
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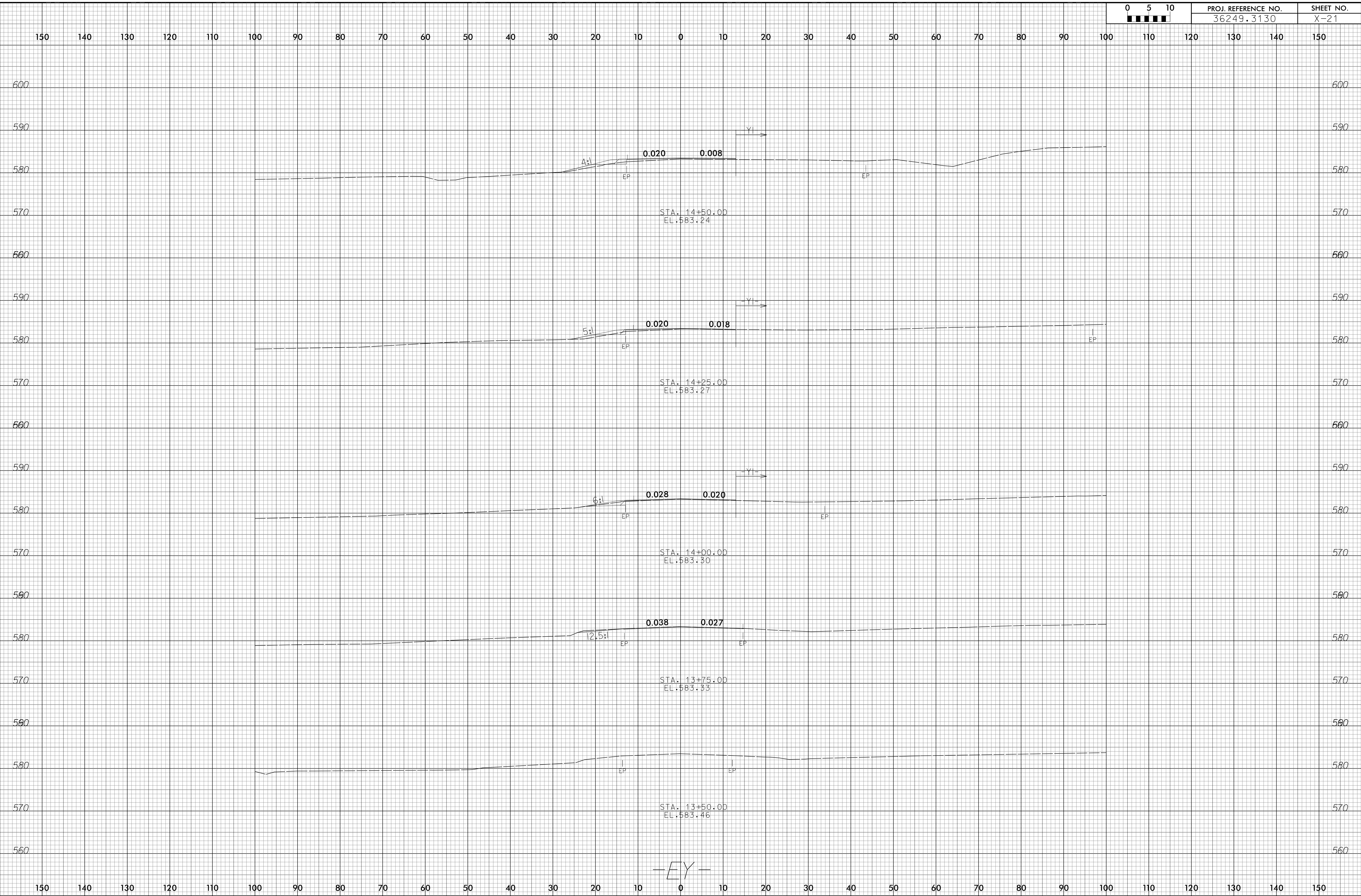
SHEET NO.  
X-20

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