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09/08/99

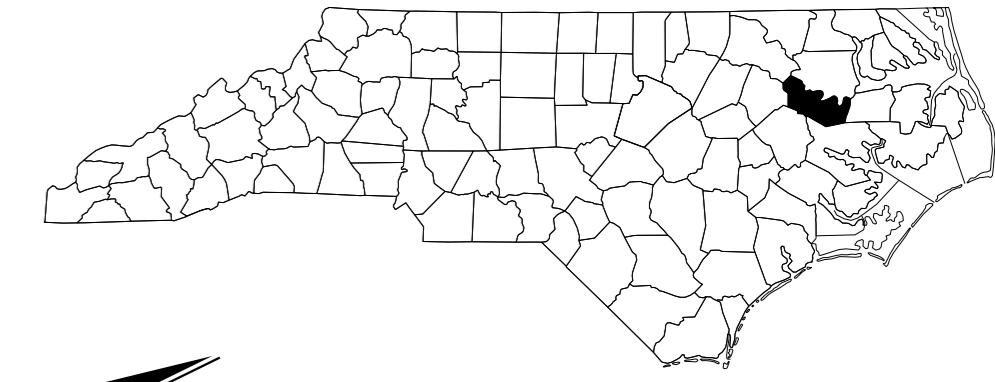
See Sheet 1A For Index of Sheets  
See Sheet 1B For Symbology Sheet

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

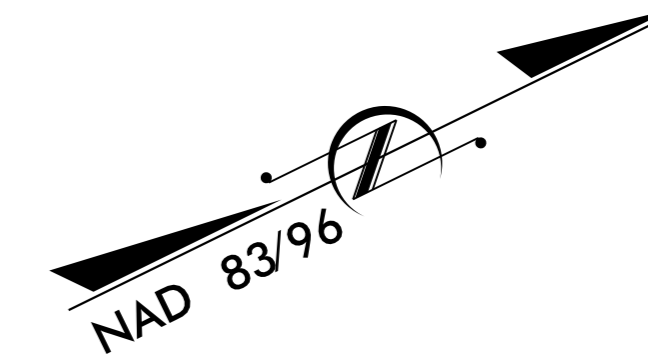
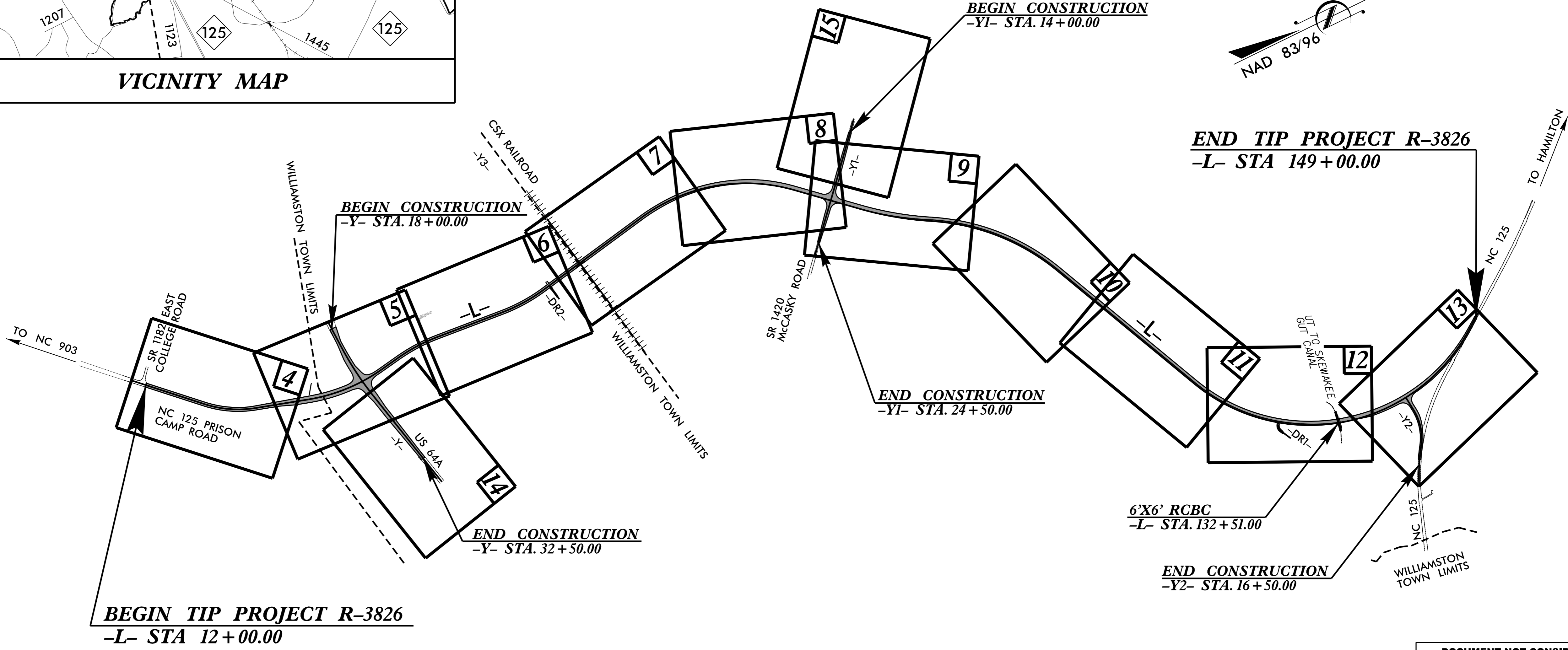
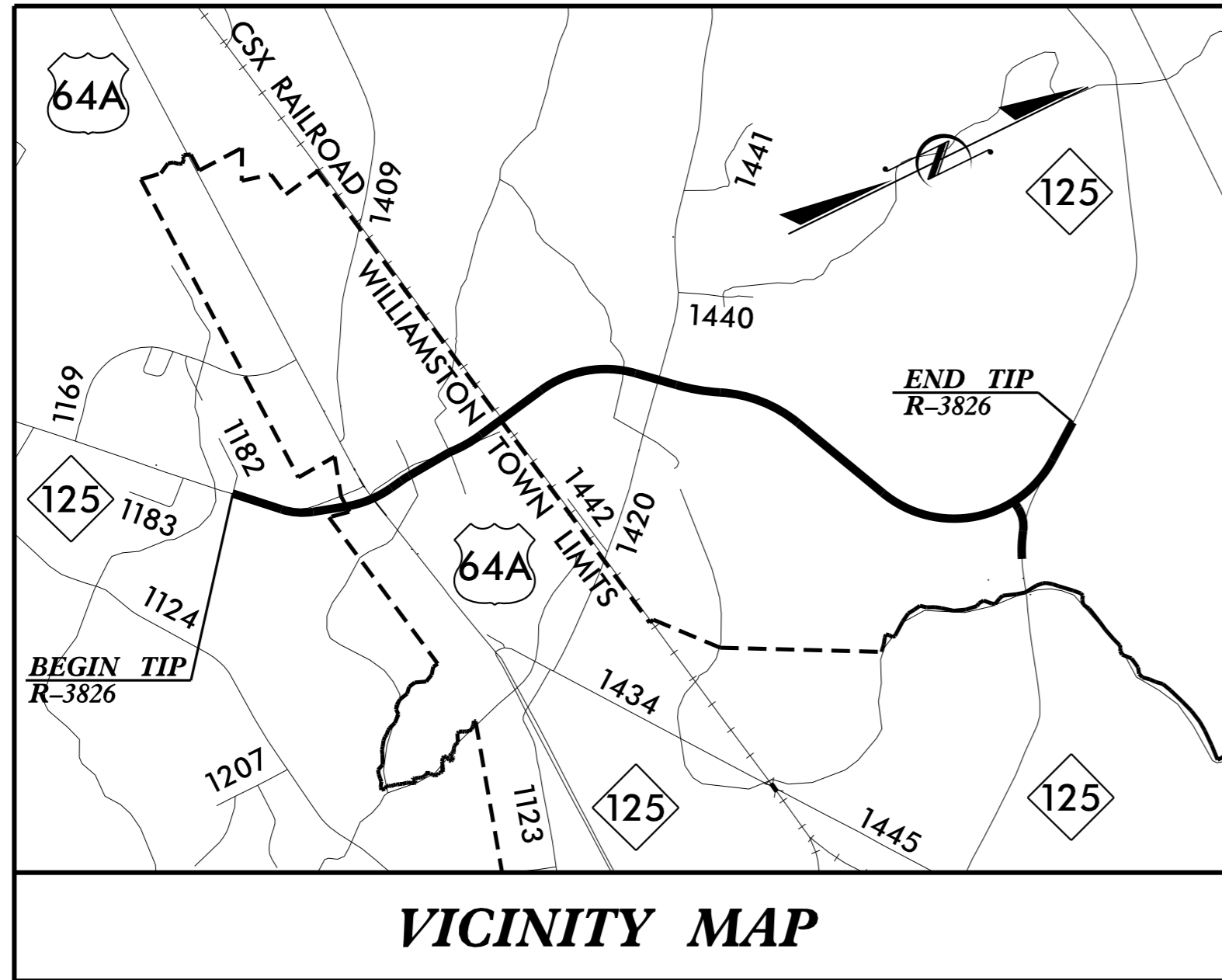
**MARTIN COUNTY**

**LOCATION: NC 125 FROM SR 1182 (E. COLLEGE ROAD)  
TO NC 125 NORTHWEST OF WILLIAMSTON**  
**TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNAL  
AND CULVERT**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-3826	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34553.1.1	STP-0125(1)	PE	
34553.4.FR1	STP-0125(1)	RW	
34553.4.FR1	STP-0125(1)	UTILITIES	
34553.2.2	STP-0125(1)	CONST	



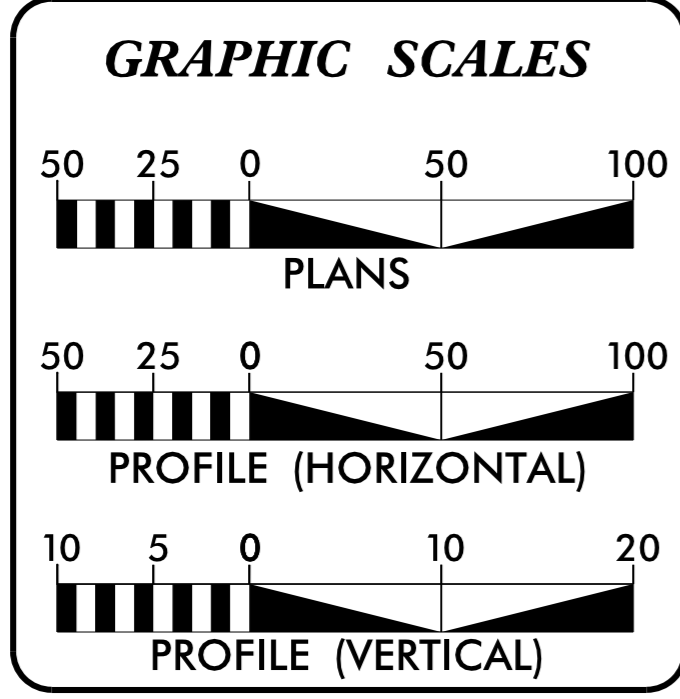
**TIP PROJECT: R-3826**



NOTE: THIS IS A PARTIAL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON PLANS.

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT: C203830**



**DESIGN DATA**

ADT 2017 =	7,450
ADT 2037 =	11,950
D =	60 %
K =	11 %
T =	11 % *
V =	60 MPH
* (TTST 4% + DUALS 7%)	
FUNC CLASS =	MAJOR COLLECTOR REGIONAL TIER

**PROJECT LENGTH**

TOTAL PROJECT LENGTH TIP R-3826 = 2.595 MI.

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

2012 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
JANUARY 15, 2015

**LETTING DATE:**  
JANUARY 17, 2017

**GARY LOVERING, PE**  
PROJECT ENGINEER

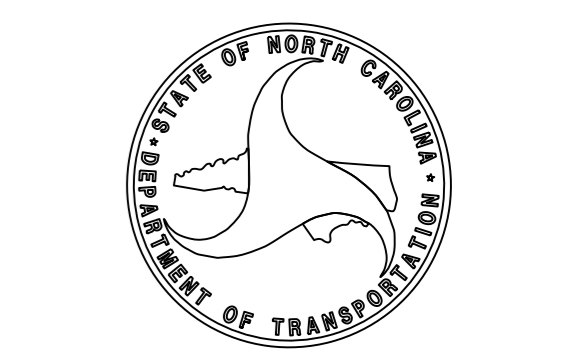
**SAM ST. CLAIR**  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

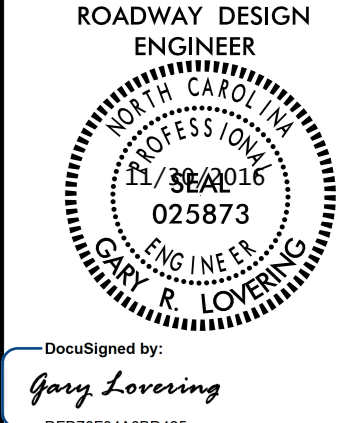
**ROADWAY DESIGN ENGINEER**

Professional Engineer Seal: JAMES R. RICE, No. 031986, State of North Carolina.

Professional Engineer Seal: GARY R. LOVERING, No. 025873, State of North Carolina.



22-NOV-2016 10:54  
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**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

SHEET NUMBER	INDEX OF SHEETS SHEET	2012 ROADWAY ENGLISH STANDARD DRAWINGS
1	TITLE SHEET	
1A	INDEX OF SHEETS, GENERAL NOTES, AND 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:
1B	CONVENTIONAL SYMBOLS	STD.NO. TITLE
1C-1 THRU 1C-3	SURVEY CONTROL SHEETS	DIVISION 2 - EARTHWORK 200.02 Method of Clearing - Method II 200.03 Method of Clearing - Method III 225.02 Guide for Grading Subgrade - Secondary and Local 225.04 Method of Obtaining Super-elevation - Two Lane Pavement 225.06 Method of Grading Sight Distance at Intersections
1D-1	CENTERLINE COORDINATE LIST	DIVISION 3 - PIPE CULVERTS 300.01 Method of Pipe Installation 310.10 Driveway Pipe Construction
2A-1 THRU 2A-5	PAVEMENT SCHEDULE AND TYPICAL SECTIONS	DIVISION 5 - SUBGRADE, BASES AND SHOULDERS 560.01 Method of Shoulder Construction - High Side of Super-elevated Curve - Method I
2C-1	CONVERT DROP INLET TO JUNCTION BOX W/ MAN HOLE	DIVISION 6 - ASPHALT BASES AND PAVEMENTS 654.01 Pavement Repairs
2C-2	METHOD FOR PLACEMENT OF DROP INLETS IN CONCRETE ISLANDS	DIVISION 8 - INCIDENTALS 815.02 Subsurface Drain 815.03 Pipe Underdrain and Blind Drain
3B-1	SUMMARY OF EARTHWORK, REMOVAL OF EXISTING ASPHALT, CURB AND GUTTER, SHOULDER BERM GUTTER, AND GUARDRAIL	838.01 Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew 838.11 Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew 838.80 Precast Endwalls - 12" thru 72" Pipe 90 Skew 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 840.19 Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe 840.24 Frames and Narrow Slot Sag Grates 840.25 Anchorage for Frames - Brick or Concrete or Precast 840.27 Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe 840.28 Brick Grated Drop Inlet Type 'D' - 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 840.45 Precast Drainage Structure 840.54 Manhole Frame and Cover 840.66 Drainage Structure Steps 846.01 Concrete Curb, Gutter and Curb & Gutter 846.04 Drop Inlet Installation in Shoulder Berm 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 862.01 Guardrail Placement 862.02 Guardrail Installation 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
3D-1 THRU 3D-3	DRAINAGE SUMMARIES	
3G-1	SUMMARIES OF SUBSURFACE DRAINAGE AND AGGREGATE SUBGRADE/ STABILIZATION	
3P-1	PARCEL INDEX SHEET	
4 THRU 15	PLAN SHEETS	
16 THRU 22	PROFILE SHEETS	
TMP-1 THRU TMP-16B	TRAFFIC MANAGEMENT PLANS	
PMP-1 THRU PMP-6	PAVEMENT MARKING PLANS	
EC-1 THRU EC-27	EROSION CONTROL PLANS	
RF-1	REFORESTATION PLANS	
SIGN-1 THRU SIGN-17	SIGNING PLANS	
SIG-1.0 THRU SIG-4.4	SIGNAL PLANS	
SIG-M1 THRU SIG-M8	STANDARD DRAWINGS FOR ALL METAL POLES	
UC-1 THRU UC-13	UTILITIES CONSTRUCTION PLANS	
UD-1 THRU UD-9	UTILITIES BY OTHERS PLANS	
X-1A THRU X-1C	CROSS-SECTION INDEX AND SUMMARY SHEETS	
X-1 THRU X-62	CROSS-SECTIONS	
C-1 THRU C-5	CULVERT PLANS	

EFF. 01-17-2012  
REV. 02-29-2016

GENERAL NOTES: 2012 SPECIFICATIONS  
EFFECTIVE: 01-17-2012  
REVISED: 10-31-2014

GRADING AND SURFACING OR RESURFACING AND WIDENING:  
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED 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; EXCEPT METHOD II SHALL BE USED IN WETLAND AREAS LOCATED INSIDE THE PROPOSED RIGHT OF WAY.

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.

SUBSURFACE DRAINS:  
SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

UNDERDRAINS:  
UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

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.

GUARDRAIL:  
THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

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

UTILITIES:  
UTILITY OWNERS ON THIS PROJECT ARE  
CENTURY LINK - TELECOM  
SUDDEN LINK - TELECOM  
PIEDMONT NATURAL GAS - GAS  
DOMINION POWER - POWER  
TOWN OF WILLIAMSTON - WATER AND SEWER

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 OTHERS.

# 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	□ EDM
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
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	○ 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

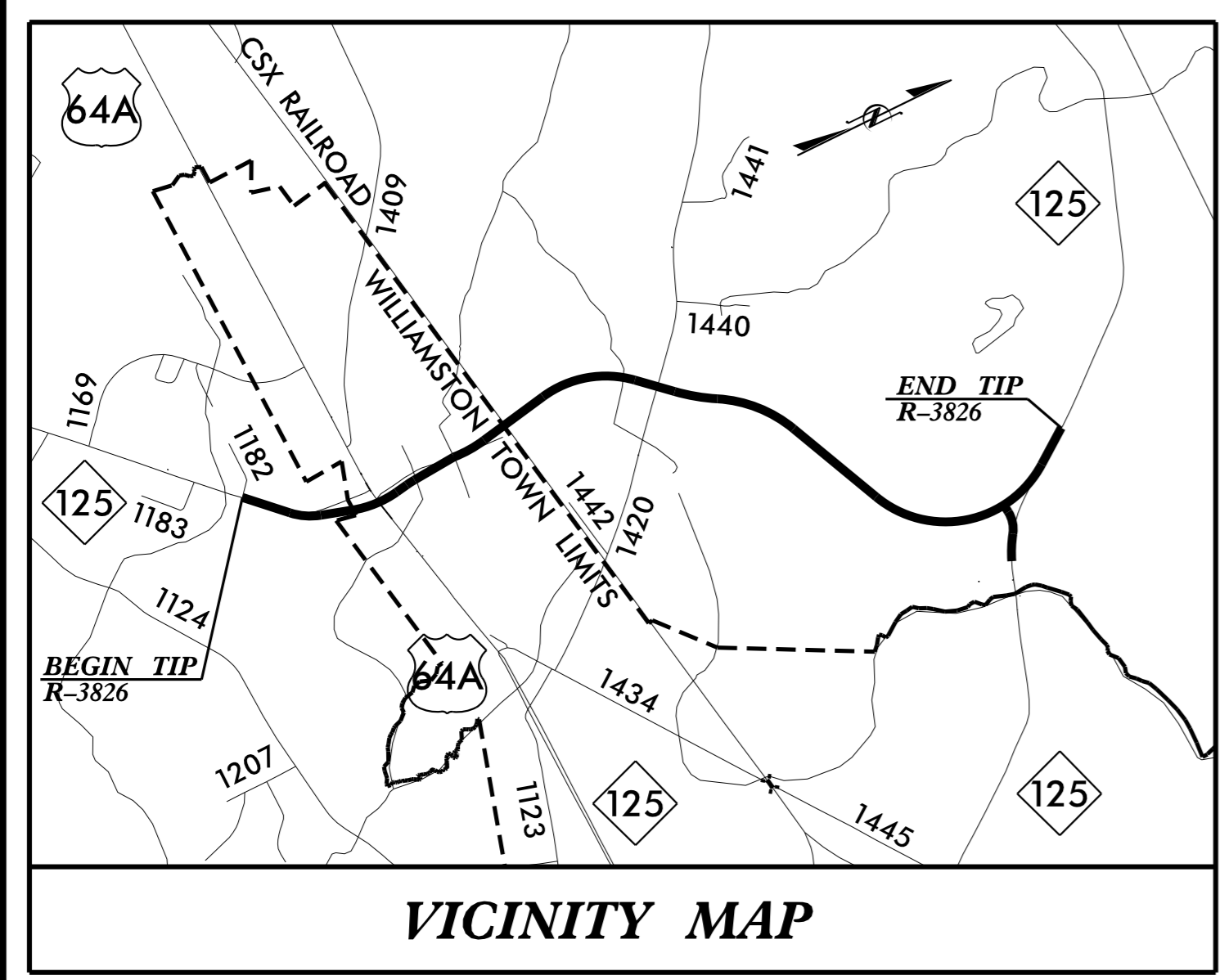
### SANITARY SEWER:

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.

# SURVEY CONTROL SHEET R-3826



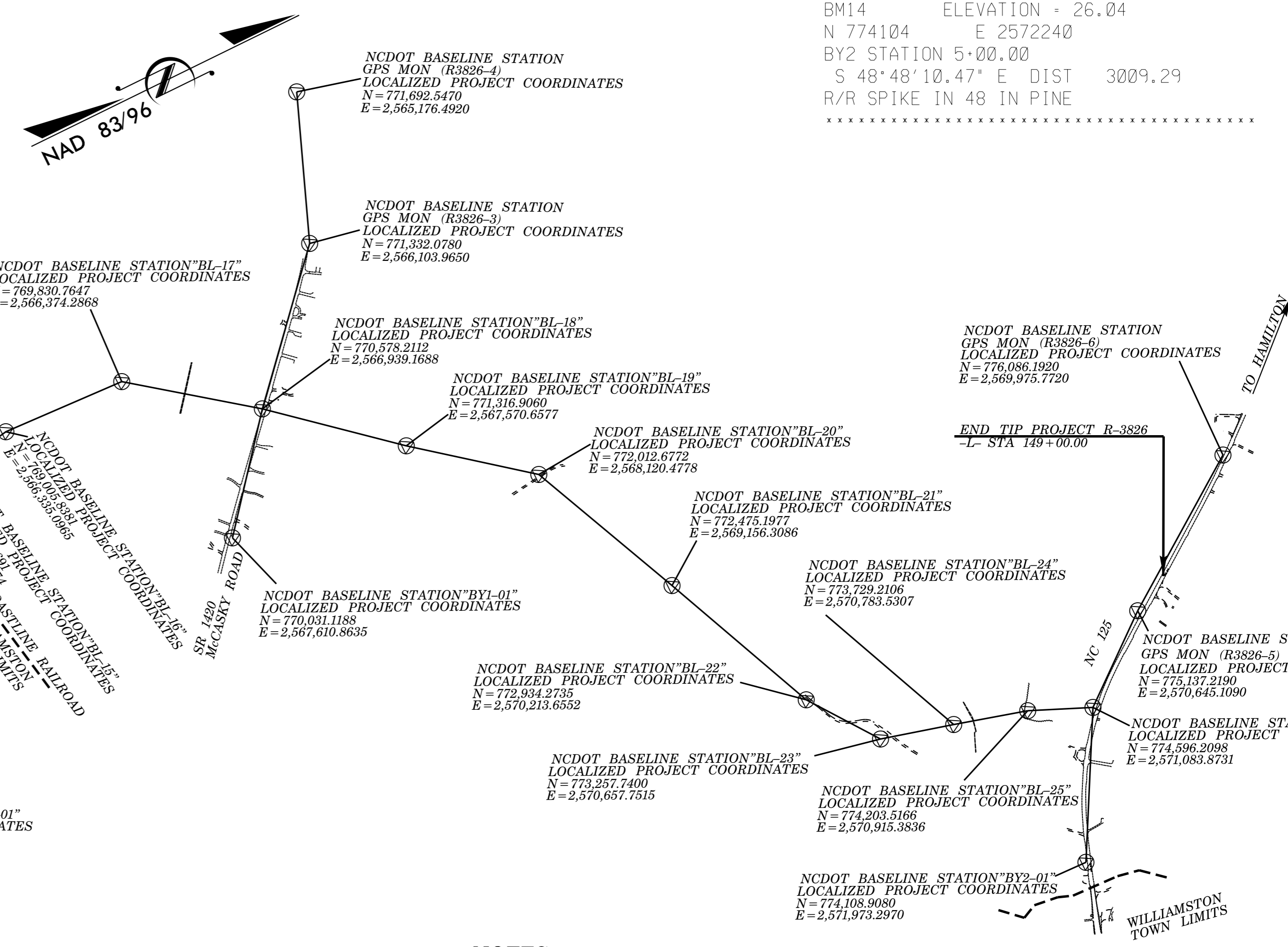
## CONTROL

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
R38261	GPS MON R3826-1		763358.9340	2564841.2990	76.22	OUTSIDE PROJECT LIMITS	
R38262	GPS MON R3826-2		764156.7360	2565723.3950	71.71	11+50.26	34.32 RT
BL10	BL-10		764701.7235	2566216.1970	75.95	18+82.85	16.76 RT
BL11	BL-11		765325.0860	2566394.7236	74.28	25+32.70	55.99 LT
BL12	BL-12		765966.7358	2566618.3082	74.89	32+05.20	46.11 RT
BL14	BL-14		767585.9929	2566635.1365	76.95	48+31.97	60.79 RT
BL15	BL-15		768227.2691	2566479.5274	73.62	54+81.68	2.10 LT
BL16	BL-16		769005.8381	2566335.0965	76.22	62+73.33	5.85 LT
BL17	BL-17		769830.7647	2566374.2868	76.27	70+89.88	59.56 LT
BL18	BL-18		770578.2112	2566939.1688	77.41	80+15.01	29.69 LT
BL19	BL-19		771316.9060	2567570.6577	77.96	89+87.98	20.56 RT
BL20	BL-20		772012.6772	2568120.4778	77.95	98+72.42	51.39 LT
BL21	BL-21		772475.1977	2569156.3086	68.38	109+99.61	13.85 LT
BL22	BL-22		772934.2735	2570213.6552	58.76	121+48.11	31.66 RT
BL23	BL-23		773257.7400	2570657.7515	51.85	126+72.55	107.57 RT
BL24	BL-24		773729.2106	2570783.5307	39.57	131+34.12	11.92 LT
BL25	BL-25		774203.5166	2570915.3836	46.62	136+27.00	15.31 RT
BL26	BL-26		774596.2098	2571083.8731	43.77	139+89.12	201.53 RT

## BENCHMARKS

\*\*\*\*\*  
 BM10 ELEVATION = 78.24  
 N 764704 E 2566121  
 BL STATION 23+62.00 72 LEFT  
 R/R SPIKE IN 24 IN PINE  
 \*\*\*\*\*  
 BM11 ELEVATION = 76.10  
 N 768323 E 2566596  
 BL STATION 61+30.00 132 RIGHT  
 R/R SPIKE IN 16 IN GUM  
 \*\*\*\*\*  
 BM12 ELEVATION = 80.22  
 N 770973 E 2566489  
 BY1 STATION 20+21.00 8 RIGHT  
 R/R SPIKE IN 36 IN PECAN  
 \*\*\*\*\*  
 BM13 ELEVATION = 34.33  
 N 773783 E 2570746  
 BL STATION 138+37.00 50 LEFT  
 R/R SPIKE IN 18 IN OAK  
 \*\*\*\*\*  
 BM14 ELEVATION = 26.04  
 N 774104 E 2572240  
 BY2 STATION 5+00.00  
 S 48°48'10.47" E DIST 3009.29  
 R/R SPIKE IN 48 IN PINE  
 \*\*\*\*\*

BY	POINT	DESC.	NORTH	EAST	ELEVATION	EY STATION	OFFSET
BY02	BY-02		766005.6863	2565859.3879	78.60	16+41.11	46.29 LT
EOBL12	BL-12		765966.7358	2566618.3082	74.89	23+93.32	45.73 RT
BY01	BY-01		766199.5987	2567618.0207	74.44	34+17.75	30.74 RT
BY1	POINT	DESC.	NORTH	EAST	ELEVATION	EY1 STATION	OFFSET
R38264	GPS MON R3826-4		771692.5470	2565176.4920	76.92	OUTSIDE PROJECT LIMITS	
R38263	GPS MON R3826-3		771332.0780	2566103.9650	77.75	OUTSIDE PROJECT LIMITS	
EOBL18	BL-18		770578.2112	2566939.1688	77.41	20+19.52	13.95 RT
BY101	BY1-01		770031.1188	2567610.8635	77.93	28+85.38	26.94 LT
BY2	POINT	DESC.	NORTH	EAST	ELEVATION	EY2 STATION	OFFSET
R38266	GPS MON R3826-6		776086.1920	2569975.7720	60.03	12+94.30	17.05 RT
R38265	GPS MON R3826-5		775137.2190	2570645.1090	62.81	24+57.00	40.39 RT
EOBL26	BL-26		774596.2098	2571083.8731	43.77	31+48.43	32.44 RT
BY201	BY2-01		774108.9080	2571973.2970	19.89	41+60.38	21.48 RT



## DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CASKEY" WITH NAD 83/ (CORS96) STATE PLANE GRID COORDINATES OF NORTHING: 770,400.000(+) EASTING: 2,569,000.000(+) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9992957 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CASKEY" TO -L- STATION 12+00.00 IS S 27° 50' 47" W 6,993.4771' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

## NOTES:

THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:  
[HTTP://WWW.DOH.DOT.STATE.NC.US/PRECONSTRUCTHIGHWAYLOCATION/PROJECT/](http://www.doh.dot.state.nc.us/preconstructhighwaylocation/project/)  
 FILE: R3826\_ls\_control.txt  
 SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.  
 ⊕ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.  
 PROJECT CONTROL ESTABLISHED USING CONVENTIONAL METHODS FROM R-3620 CONTROL MONUMENTATION.

NOTE: DRAWING NOT TO SCALE

06-OCT-2016 09:18 P:\Locations\Surveys\R-3826-1s-1c.dgn



# SURVEY CONTROL SHEET R-3826

FINAL ROW /EASEMENT POINTS

PROJECT REFERENCE NO. <b>R-3826</b>	SHEET NO. <b>1C-3</b>
Location and Surveys	

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y	20+00.00	50.00	765920.85510	2566221.35202
Y	20+00.00	60.00	765910.86149	2566221.70959
Y	21+24.62	60.00	765918.17415	2566348.71562
Y	24+60.00	-60.00	766082.87612	2566664.27495
Y	32+50.00	50.00	766144.67797	2567458.34677
Y	32+50.00	65.00	766130.02970	2567461.57602

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	14+00.00	20.00	770987.58048	2566474.27733
Y1	14+00.00	50.00	770965.23675	2566454.25840
Y1	14+02.00	-50.00	771038.38127	2566522.47775
Y1	14+02.00	-30.00	771023.48545	2566509.13180
Y1	18+35.53	-50.00	770749.08595	2566845.36901
Y1	18+35.53	50.00	770674.60683	2566778.63924
Y1	23+35.00	-30.00	770398.62684	2567202.25043
Y1	23+35.00	-50.00	770413.43135	2567215.69761
Y1	24+50.00	20.00	770284.29432	2567253.75844
Y1	24+50.00	50.00	770262.08755	2567233.58768

CONTROL ACCESS MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y	21+68.00	-50.00	766031.52557	2566382.47112
Y	25+19.15	-50.00	766084.99351	2566723.10715
Y	25+19.15	-60.00	766094.75902	2566720.95431

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y	19+70.00	-50.00	766019.82313	2566187.99435
Y	19+70.00	-80.00	766049.80804	2566187.04292
Y	20+00.00	75.00	765895.87109	2566222.24593
Y	20+20.00	-80.00	766051.53494	2566236.13016
Y	20+20.00	-50.00	766021.56235	2566237.41213
Y	21+00.00	75.00	765901.32929	2566324.71345
Y	21+55.00	87.66	765893.24173	2566382.10734
Y	26+00.00	80.00	765975.44715	2566830.04674
Y	26+55.34	-50.00	766114.31272	2566856.10260
Y	26+55.40	-60.00	766124.09154	2566854.01008
Y	30+00.00	65.00	766076.20883	2567217.43813
Y	30+00.00	90.00	766051.79504	2567222.82021
Y	30+00.00	80.00	766061.56055	2567220.66738
Y	30+75.00	90.00	766067.94130	2567296.06158
Y	30+75.00	65.00	766092.35509	2567290.67950
Y	30+75.00	80.00	766077.70681	2567293.90875
Y	32+50.00	80.00	766115.38143	2567464.80528

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	13+50.00	-30.00	771058.21438	2566470.12827
Y1	13+50.00	-60.00	771080.70725	2566489.97949
Y1	14+50.00	-60.00	771013.79889	2566564.90071
Y1	14+50.00	-50.00	771006.35098	2566558.22773
Y1	16+00.00	-60.00	770913.70424	2566676.61937
Y1	16+00.00	-50.00	770906.25633	2566669.94640
Y1	16+53.00	-50.00	770870.88955	2566709.42032
Y1	16+53.00	-60.00	770878.33746	2566716.09330
Y1	18+50.00	-60.00	770746.85113	2566862.84230
Y1	18+50.00	-50.00	770739.40744	2566856.16463
Y1	19+03.71	-59.98	770710.83549	2566902.87245

CONTROL ACCESS MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	18+95.00	-50.00	770709.25939	2566889.70476
Y1	18+95.00	50.00	770634.95368	2566822.78196
Y1	21+74.03	-50.00	770521.65835	2567096.54633
Y1	21+74.31	50.00	770447.45249	2567029.51228

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	11+32.88	60.00	774442.23345	2571033.16913
Y2	13+00.00	60.00	774432.43209	2571178.55765
Y2	13+00.00	-99.11	774586.99836	2571216.31669

CONTROL ACCESS MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	14+50.00	60.00	774382.14549	2571299.43439
Y2	14+50.00	49.29	774391.28270	2571305.02232





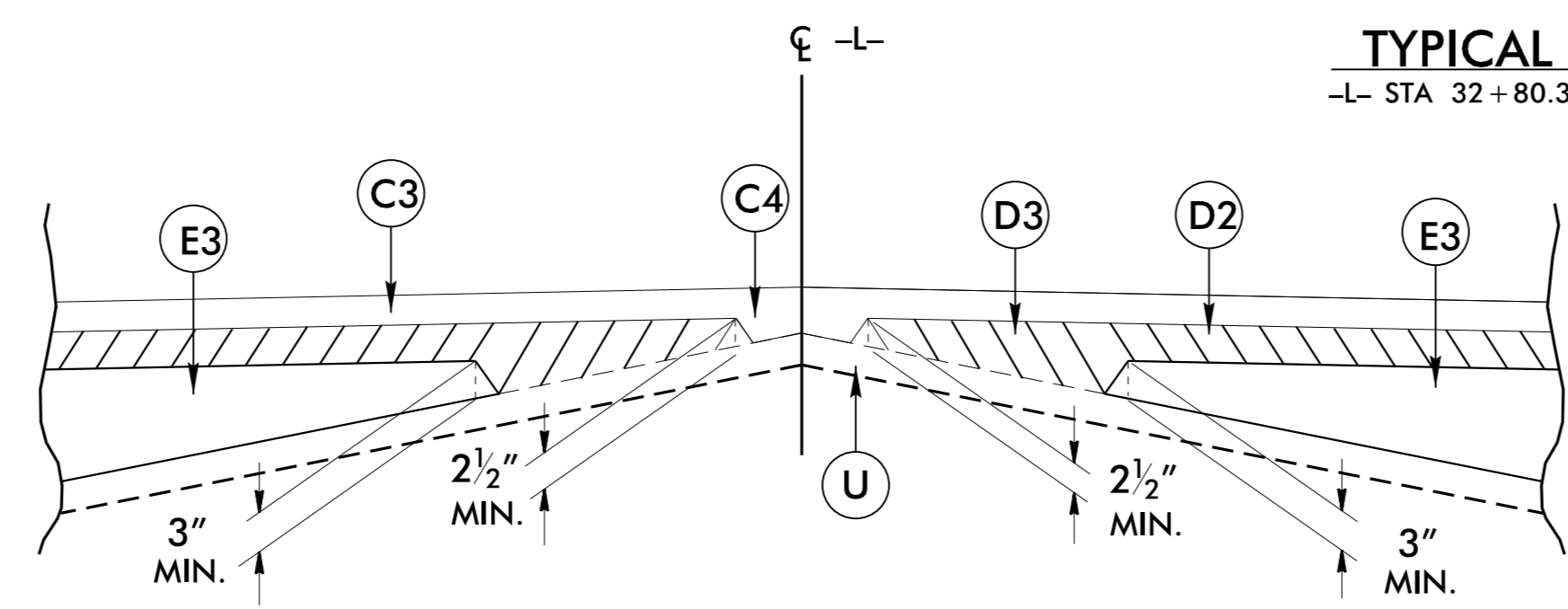
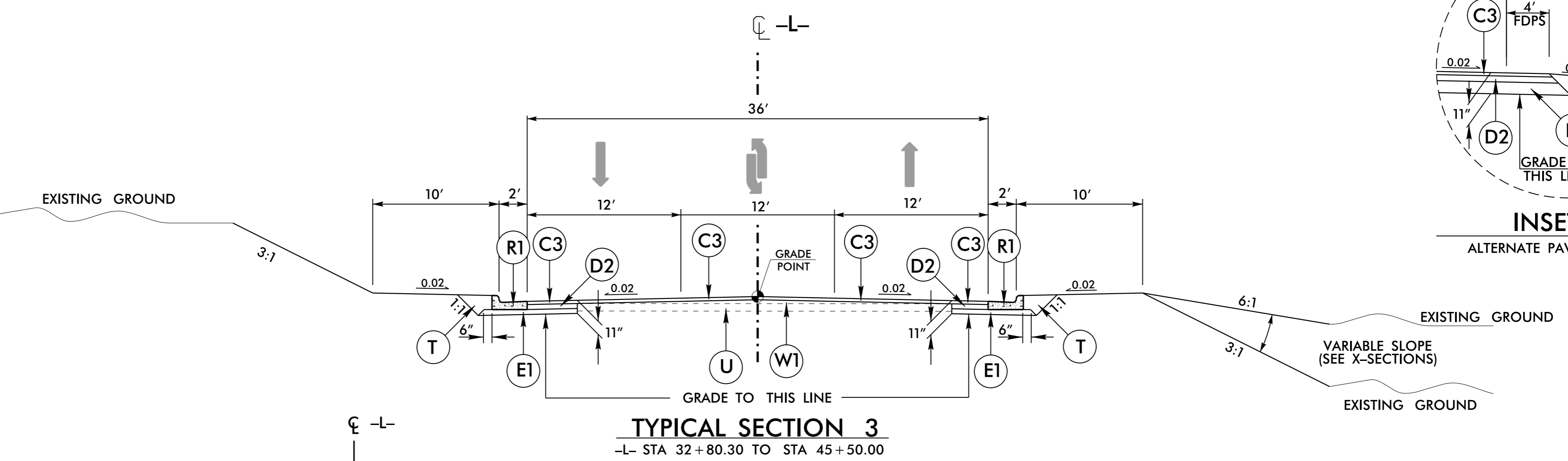
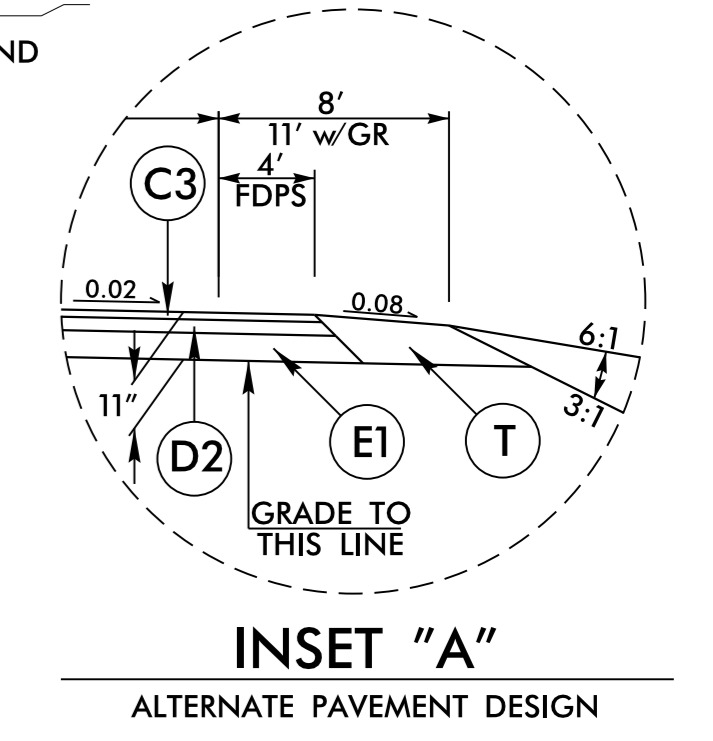
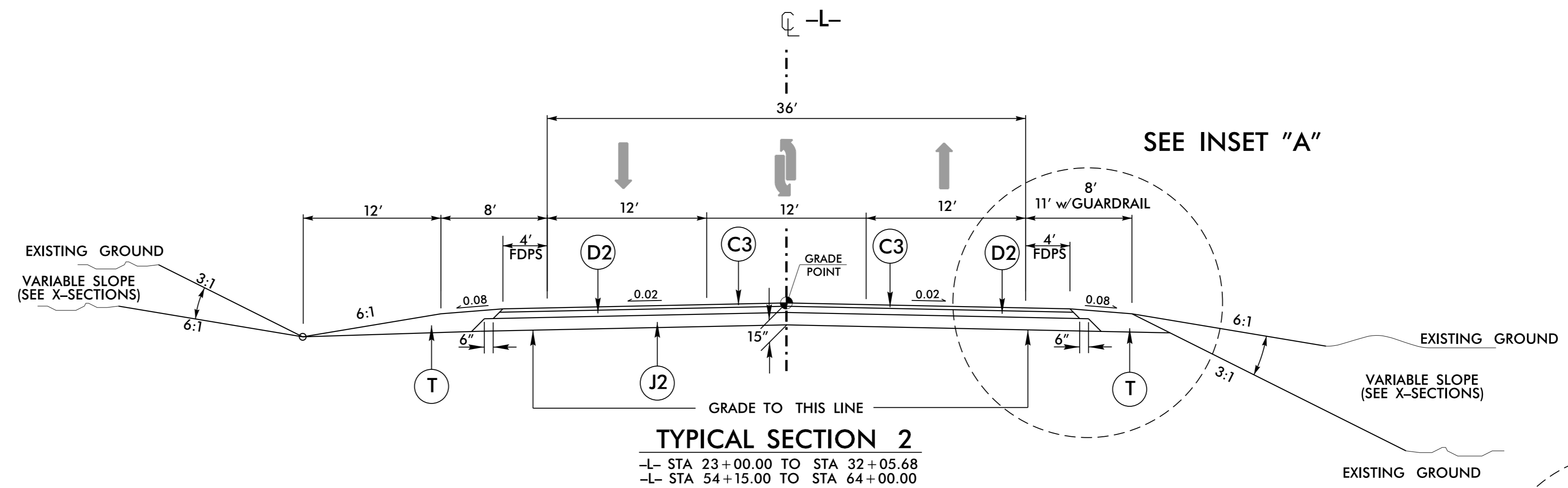
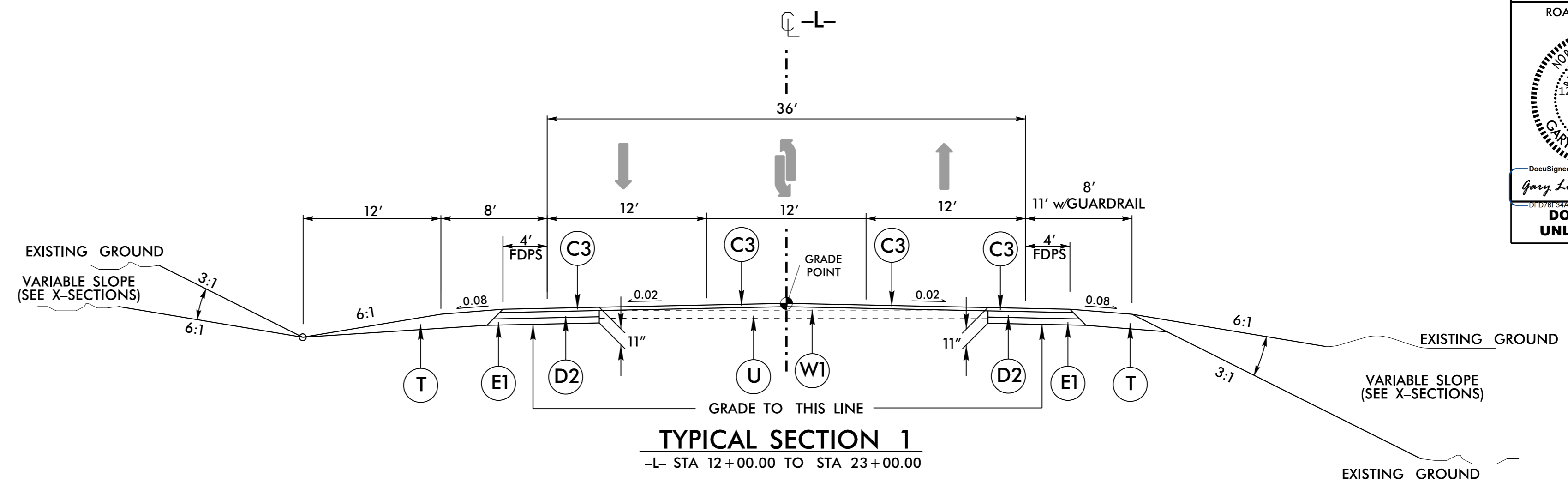
6/2/99

**PAVEMENT SCHEDULE**

C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 140 LBS. PER SQ. YD. TO BE PLACED IN TWO LAYERS
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. TO BE PLACED IN TWO LAYERS
C4	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 1 1/2" IN DEPTH OR GREATER THAN 2" IN DEPTH.
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D3	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 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 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 5 1/2" IN DEPTH.
J1	PROP. 6" AGGREGATE BASE COURSE.
J2	PROP. 8" AGGREGATE BASE COURSE.
J3	PROP. VAR. DEPTH AGGREGATE BASE COURSE.
P	PRIME COAT AT A RATE OF .35 GAL/SY
R1	2'-6" CONCRETE CURB AND GUTTER.
R2	CONCRETE SHOULDER BERM GUTTER.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING FOR -L-)
W2	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING FOR -Y-)
W3	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING FOR -Y1- AND -Y2-)

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

PROJECT REFERENCE NO. <b>R-3826</b>	SHEET NO. <b>2A-1</b>
ROADWAY DESIGN ENGINEER <b>GARY R. LOVERING</b> 12/6/2016 025873	PAVEMENT DESIGN ENGINEER <b>CLARK S. MORRISON</b> 12/6/2016 022896
<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>	

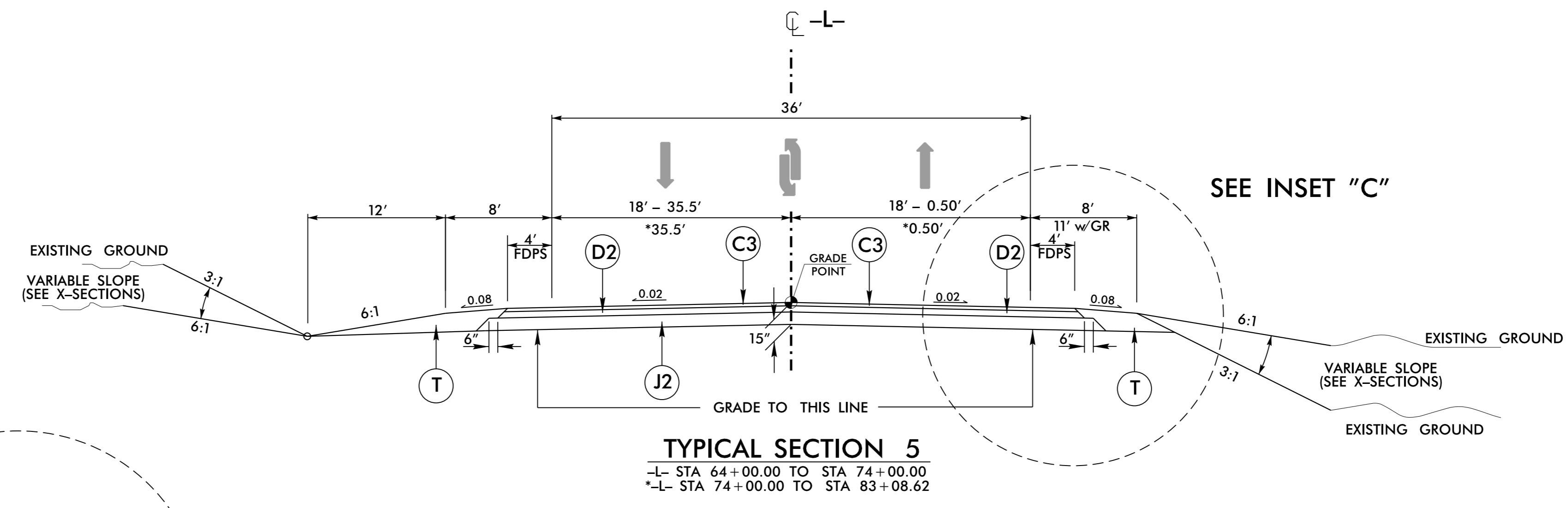
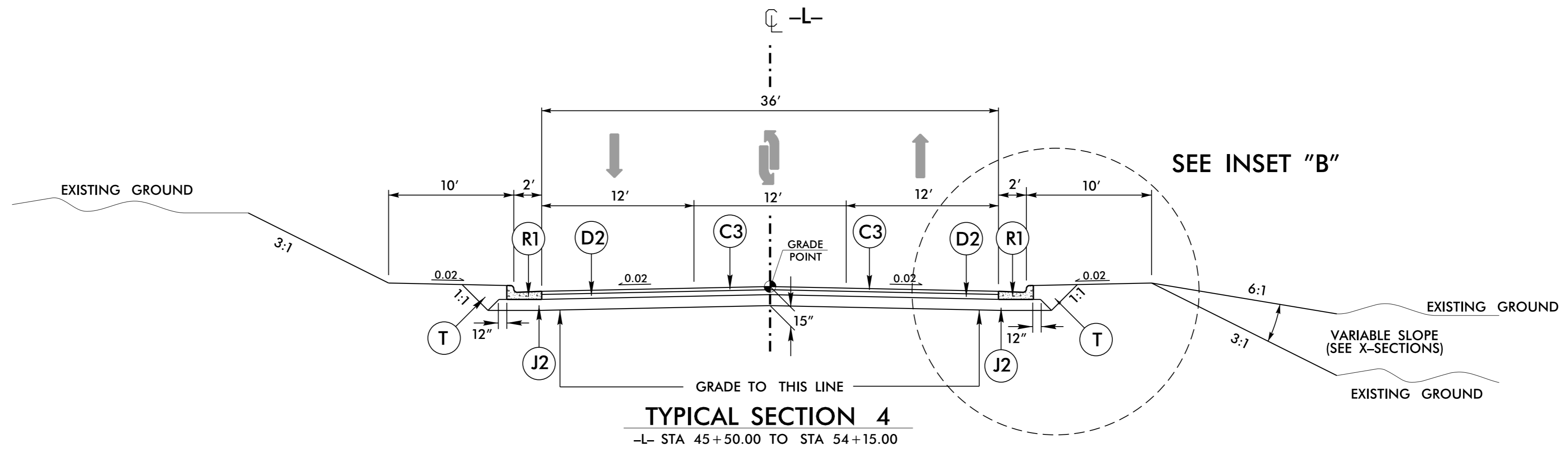


W1 - Detail Showing Method of Wedging for -L-

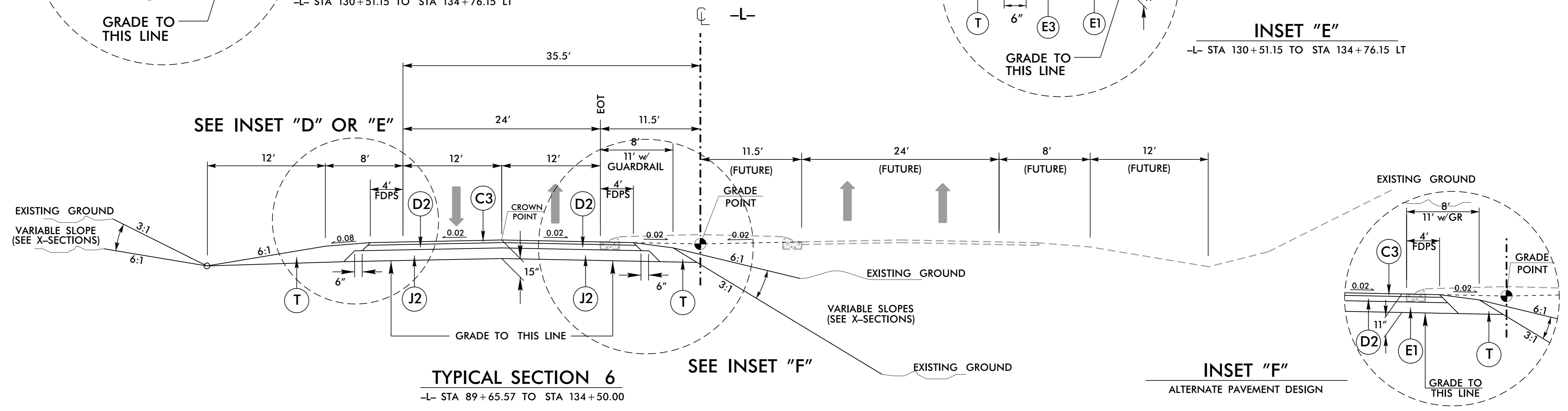
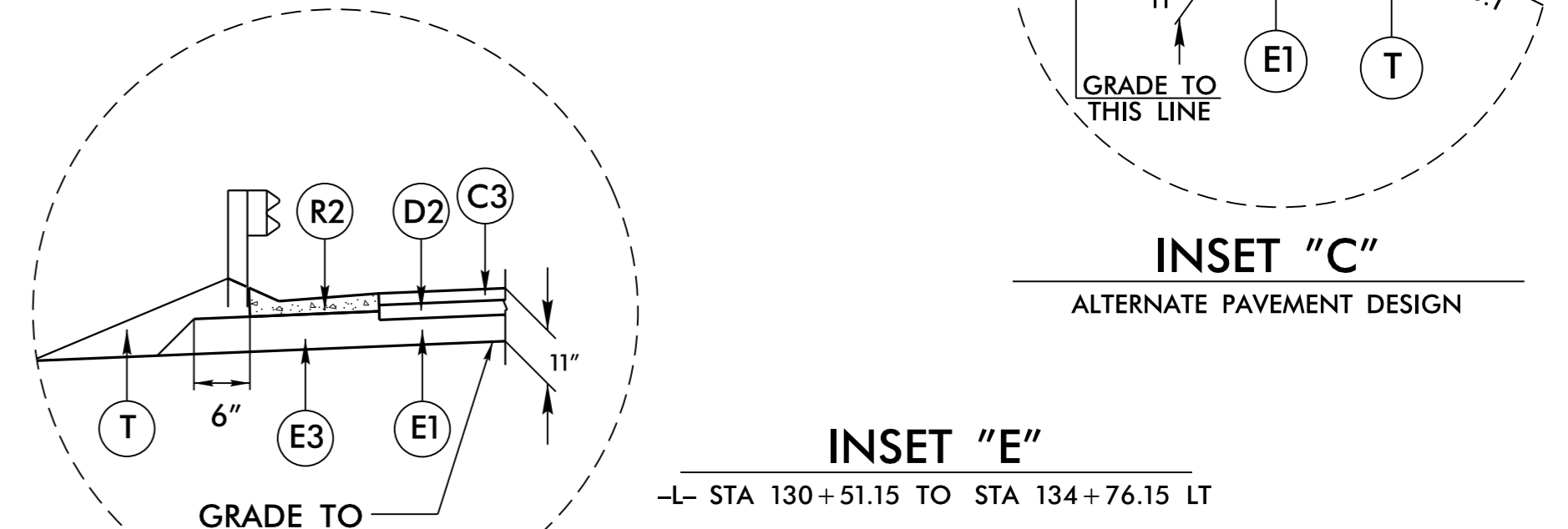
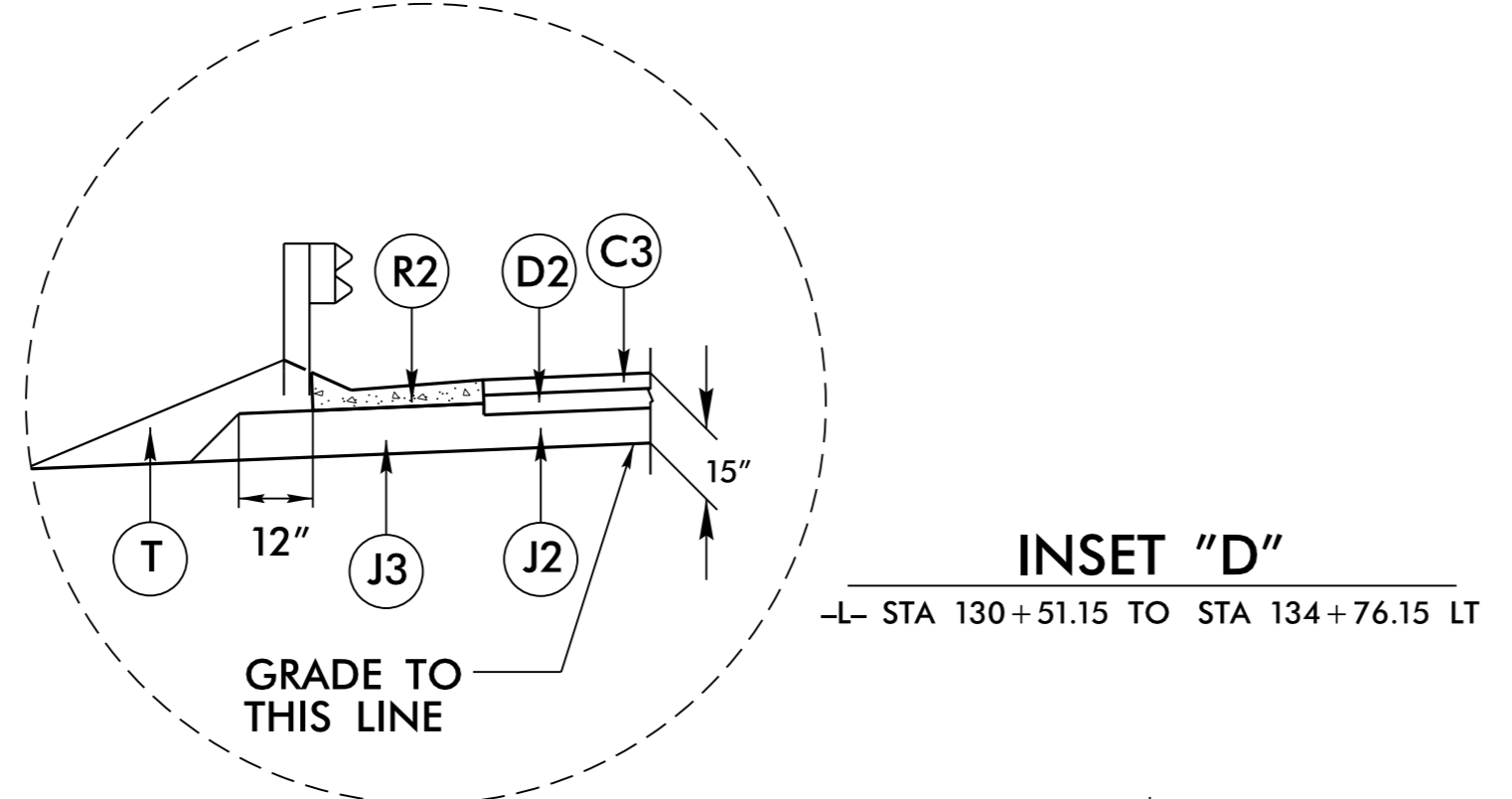
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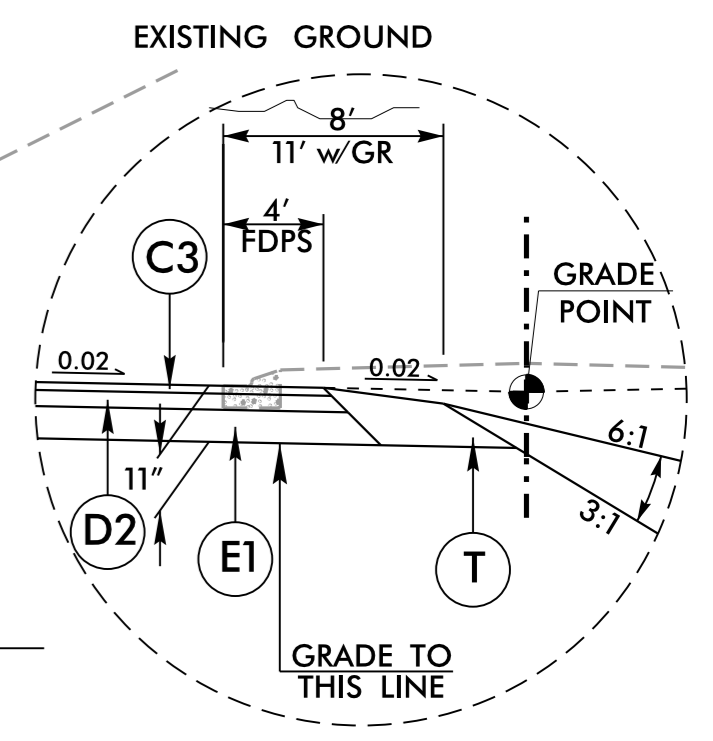
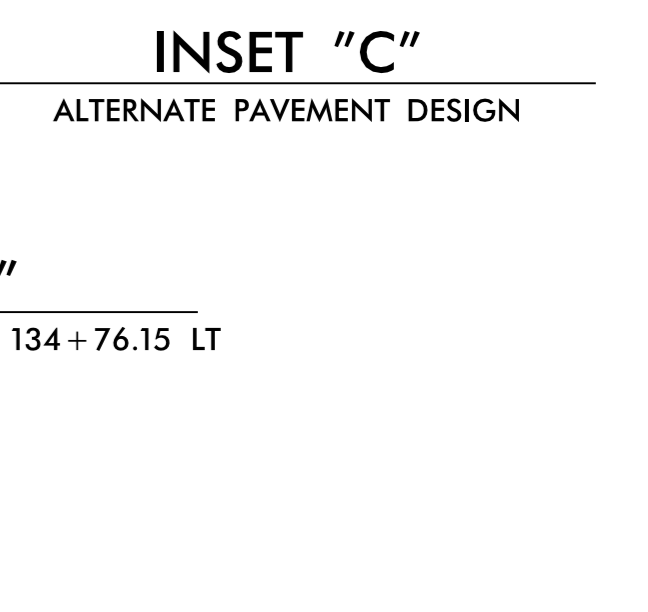
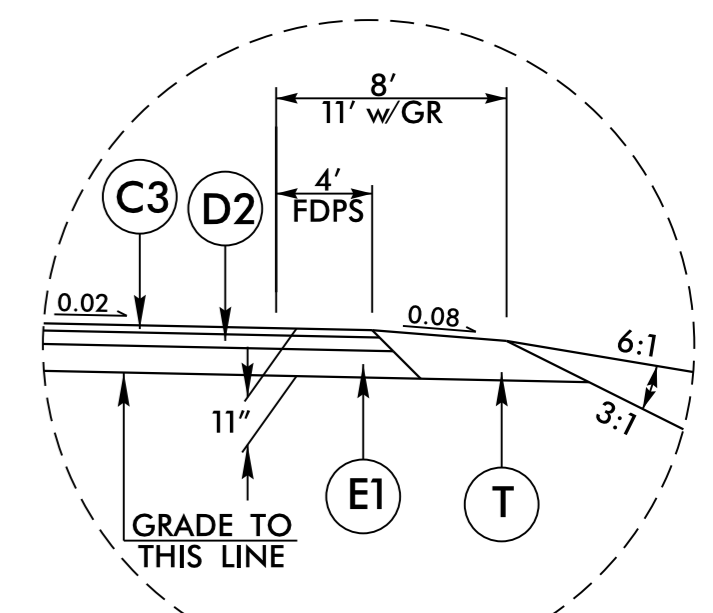
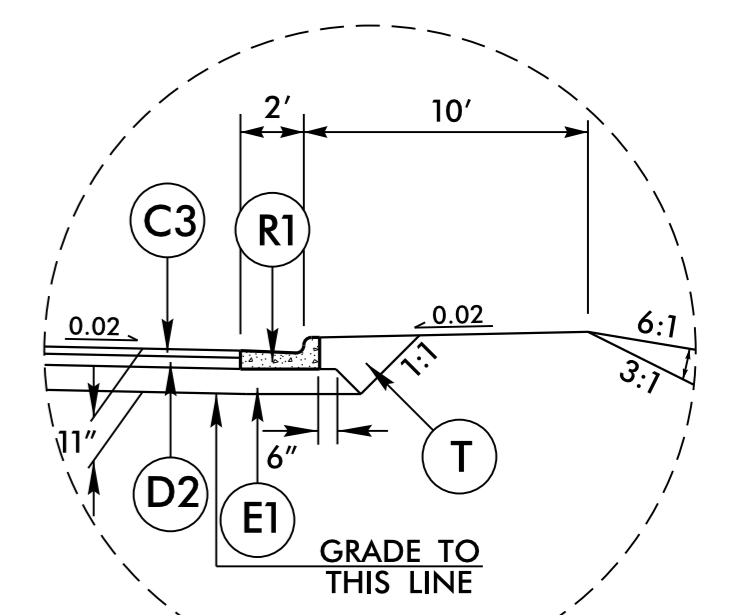
PAVEMENT SCHEDULE	
C1	1.5" S9.5B
C2	2.5" S9.5B
C3	3" S9.5B
C4	VAR. S9.5B
D1	2.5" I19.0B
D2	4" I19.0B
D3	VAR. I19.0B
E1	4" B25.0B
E2	5.5" B25.0B
E3	VAR. B25.0B
J1	6" ABC
J2	8" ABC
J3	VAR. ABC
R1	2'-6" C&G
R2	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W1	-L- WEDGING DETAIL
W2	-Y- WEDGING DETAIL
W3	-Y1- -Y2- WEDGING DETAIL



NOTE: TRANSITION FROM TYPICAL SECTION 5 TO TYPICAL SECTION 6 FROM -L- STA 83+08.62 TO STA 89+65.57



PROJECT REFERENCE NO. <b>R-3826</b>	SHEET NO. <b>2A-2</b>
ROADWAY DESIGN ENGINEER <b>GARY R. LOVERING</b> 025873	PAVEMENT DESIGN ENGINEER <b>CLARK MORRISON</b> 022896
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

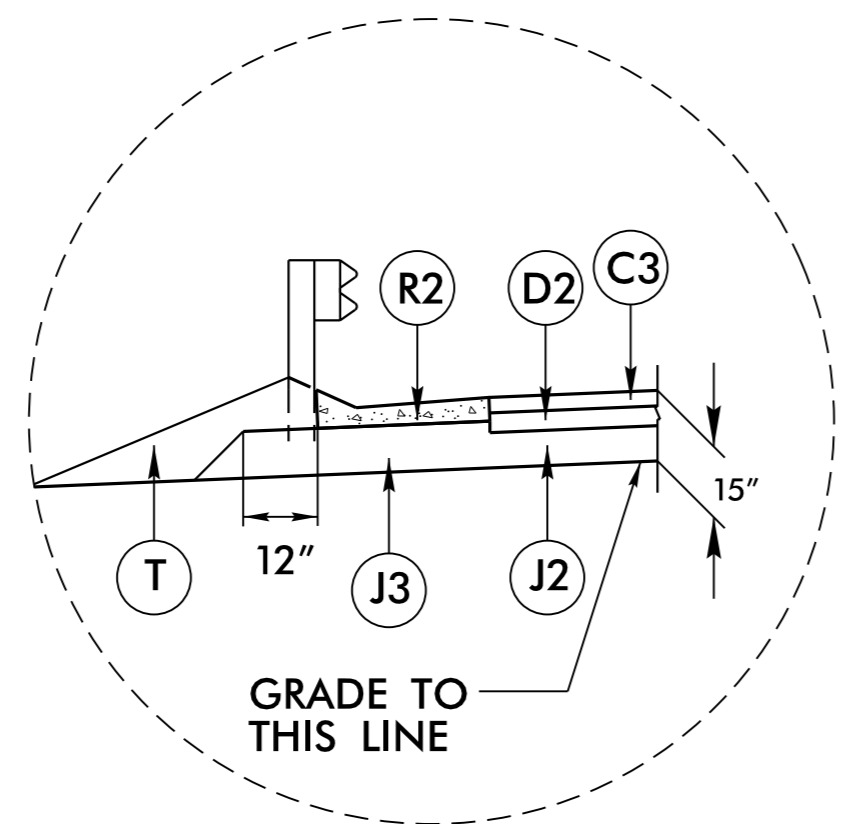


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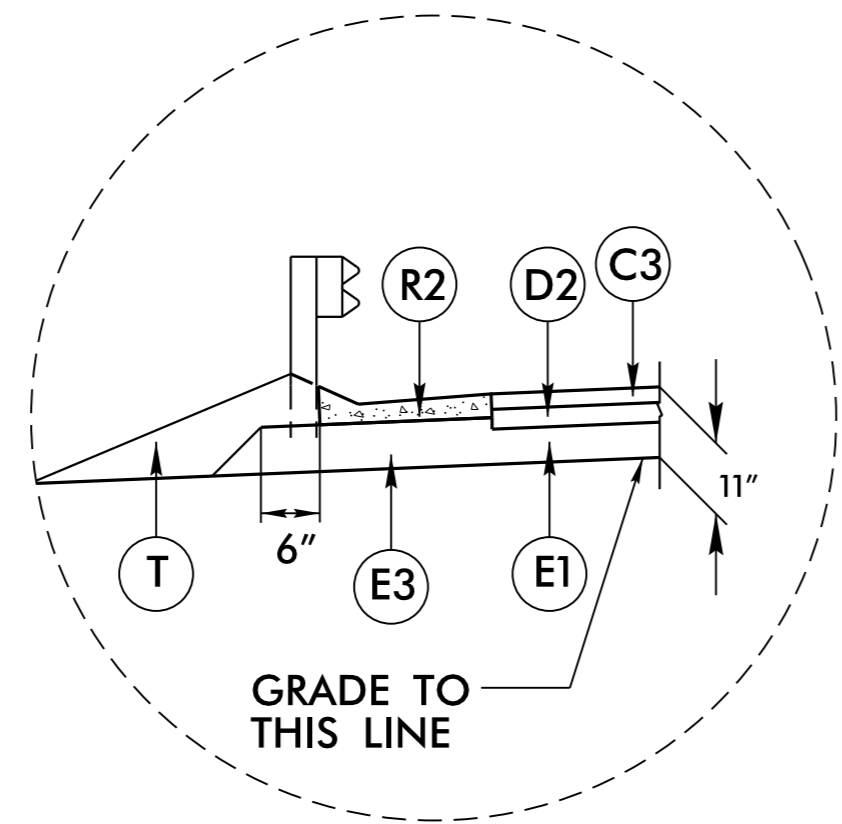
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**PAVEMENT SCHEDULE**

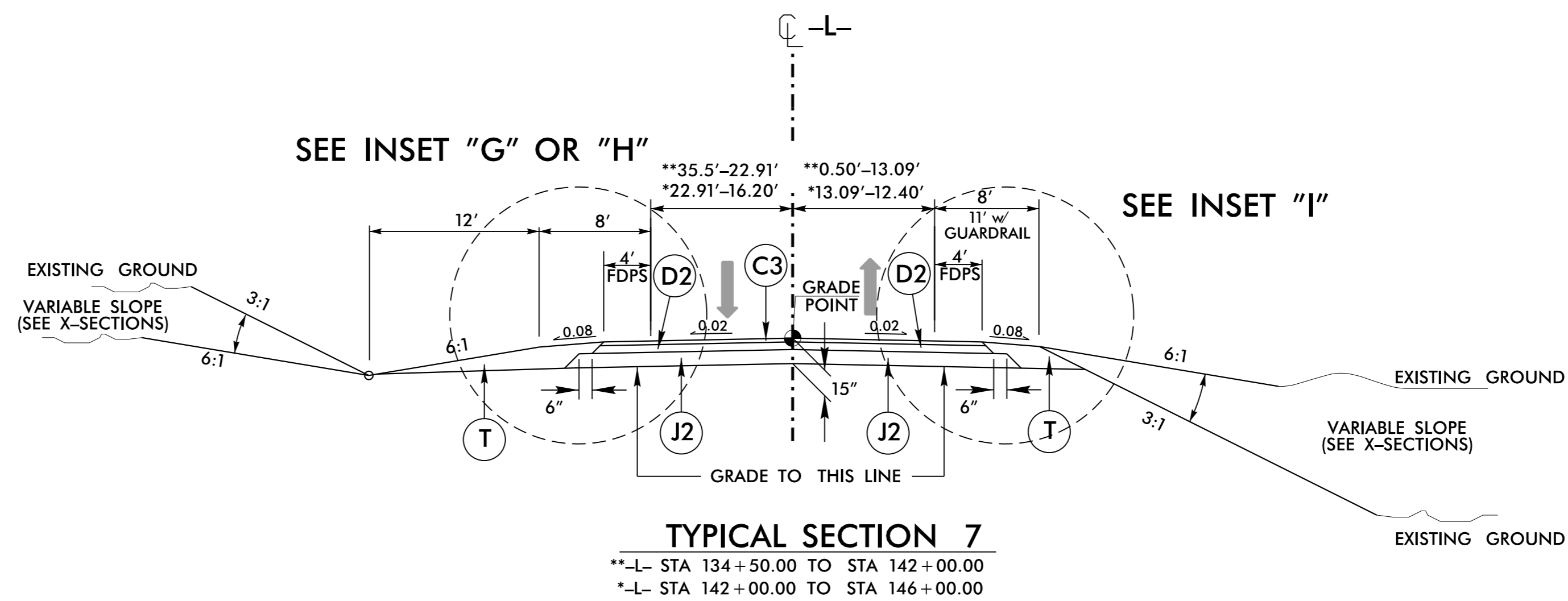
C1	1.5" S9.5B
C2	2.5" S9.5B
C3	3" S9.5B
C4	VAR. S9.5B
D1	2.5" I19.0B
D2	4" I19.0B
D3	VAR. I19.0B
E1	4" B25.0B
E2	5.5" B25.0B
E3	VAR. B25.0B
J1	6" ABC
J2	8" ABC
J3	VAR. ABC
R1	2'-6" C&G
R2	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W1	-L- WEDGING DETAIL
W2	-Y- WEDGING DETAIL
W3	-Y1- -Y2- WEDGING DETAIL



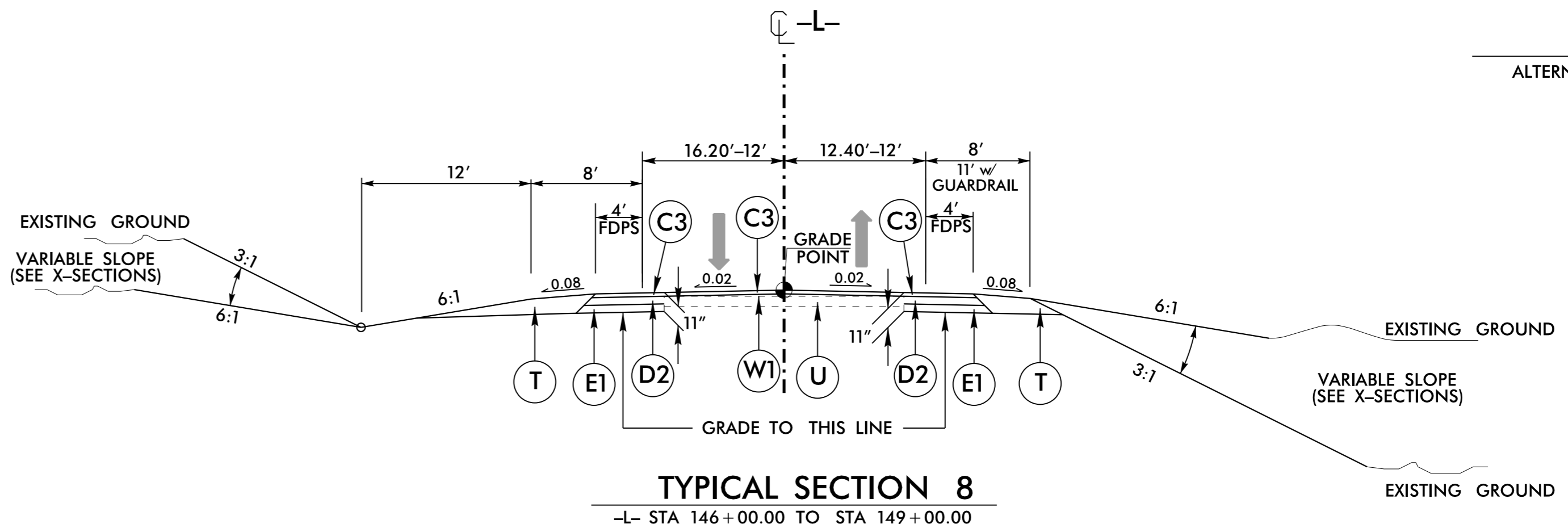
**INSET "G"**  
-L- STA 130+51.15 TO STA 134+76.15 LT



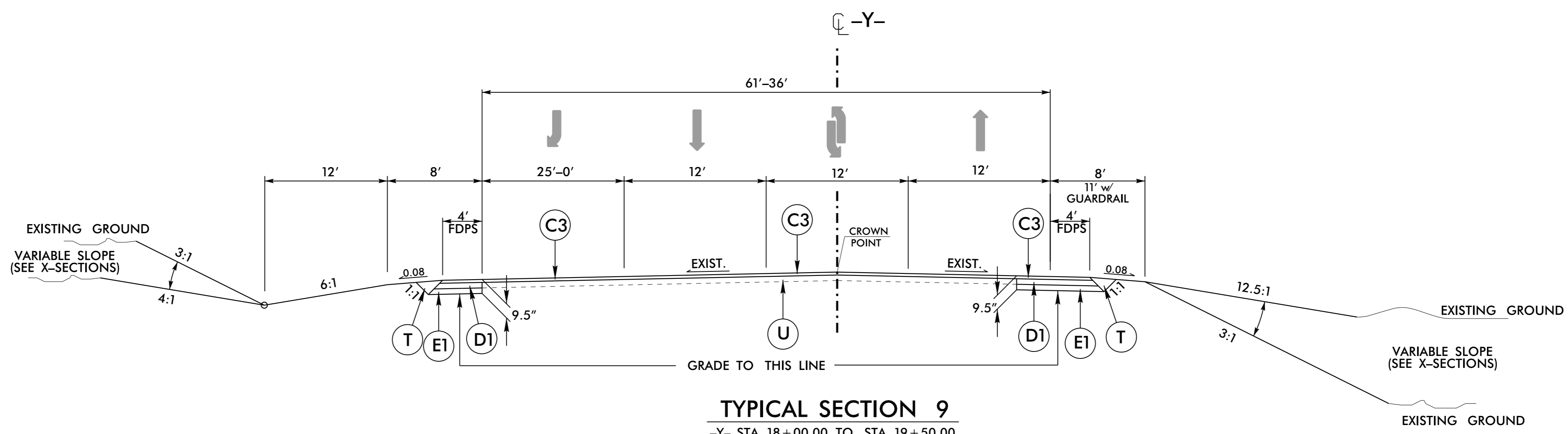
**INSET "H"**  
-L- STA 130+51.15 TO STA 134+76.15 LT



**TYPICAL SECTION 7**  
-L- STA 134+50.00 TO STA 142+00.00  
\*L- STA 142+00.00 TO STA 146+00.00

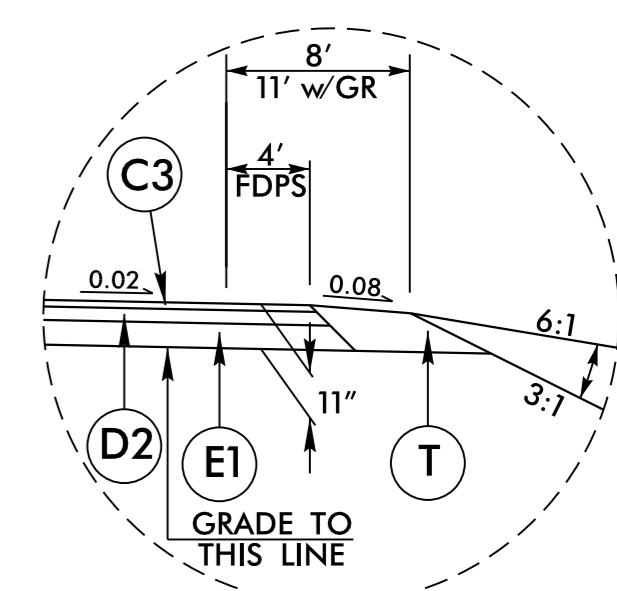


**TYPICAL SECTION 8**  
-L- STA 146+00.00 TO STA 149+00.00



**TYPICAL SECTION 9**  
-Y- STA 18+00.00 TO STA 19+50.00

PROJECT REFERENCE NO. <b>R-3826</b>	SHEET NO. <b>2A-3</b>
ROADWAY DESIGN ENGINEER <b>GARY R. LOVERING</b> 025873	PAVEMENT DESIGN ENGINEER <b>CLARK S. MORRISON</b> 022896
<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>	



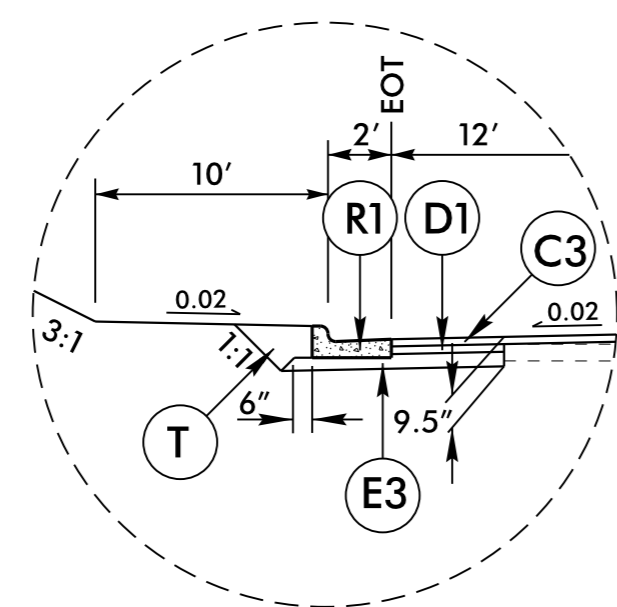
**INSET "I"**  
ALTERNATE PAVEMENT DESIGN

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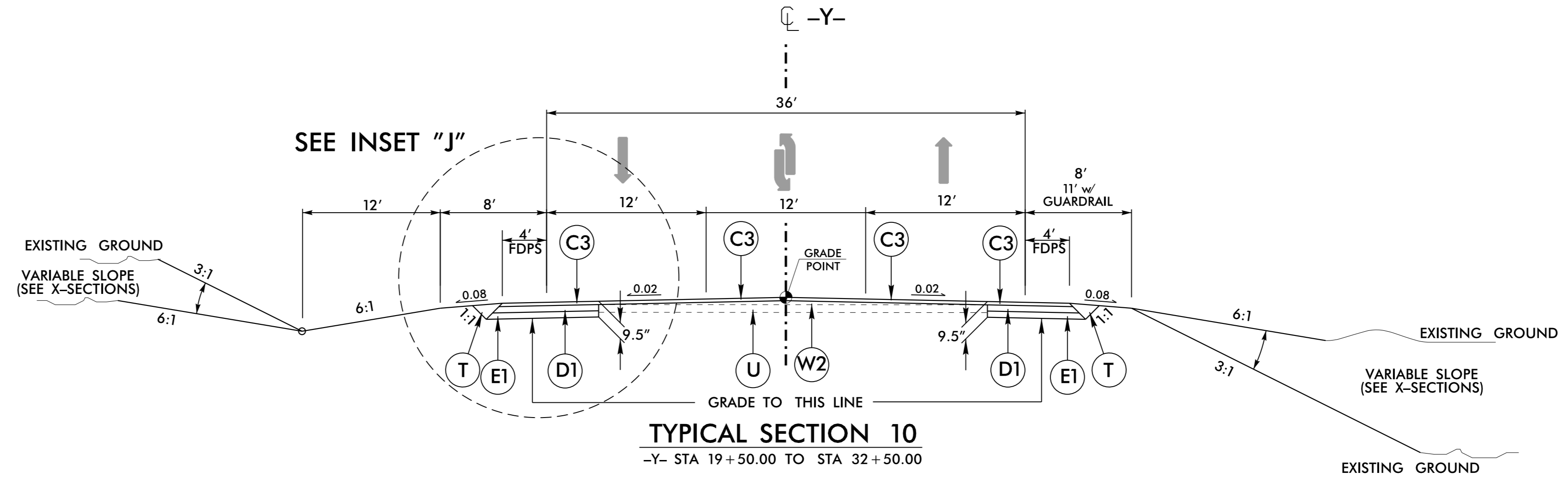
6/2/99

**PAVEMENT SCHEDULE**

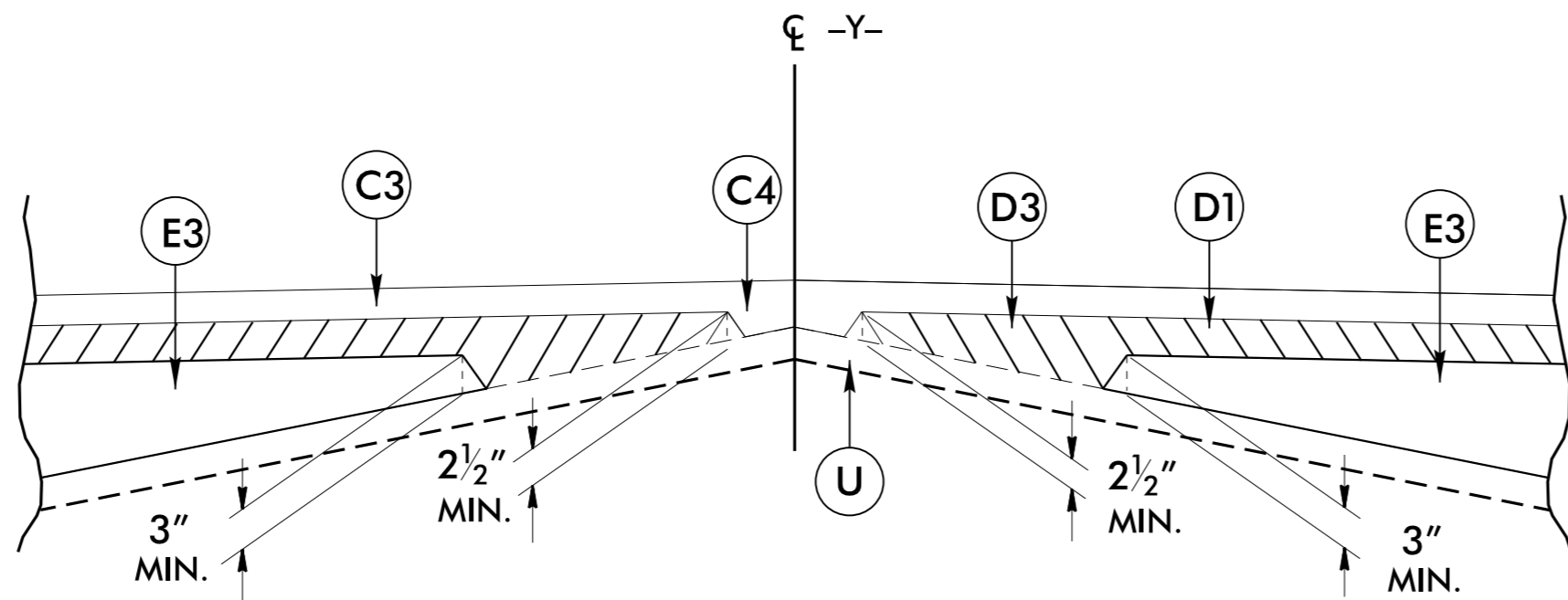
C1	1.5" S9.5B
C2	2.5" S9.5B
C3	3" S9.5B
C4	VAR. S9.5B
D1	2.5" I19.0B
D2	4" I19.0B
D3	VAR. I19.0B
E1	4" B25.0B
E2	5.5" B25.0B
E3	VAR. B25.0B
J1	6" ABC
J2	8" ABC
J3	VAR. ABC
R1	2'-6" C&G
R2	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W1	-L- WEDGING DETAIL
W2	-Y- WEDGING DETAIL
W3	-Y1- -Y2- WEDGING DETAIL



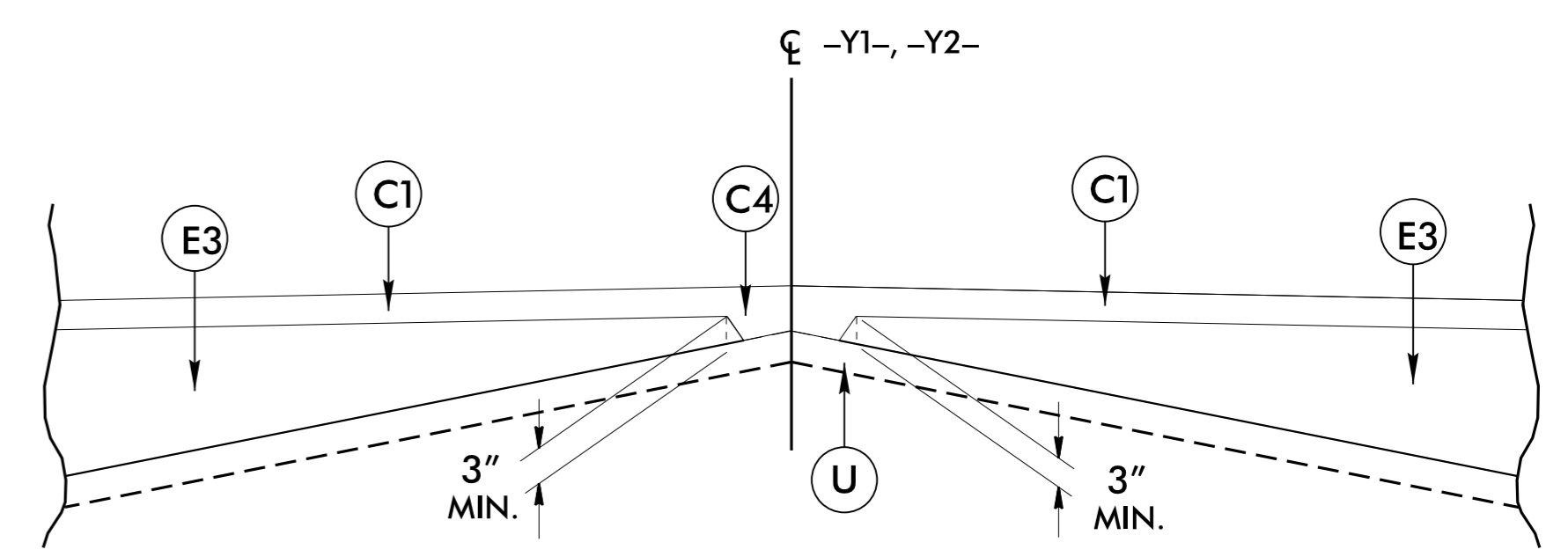
**INSET "J"**  
-Y- STA 22+74.41 TO STA 26+69.15



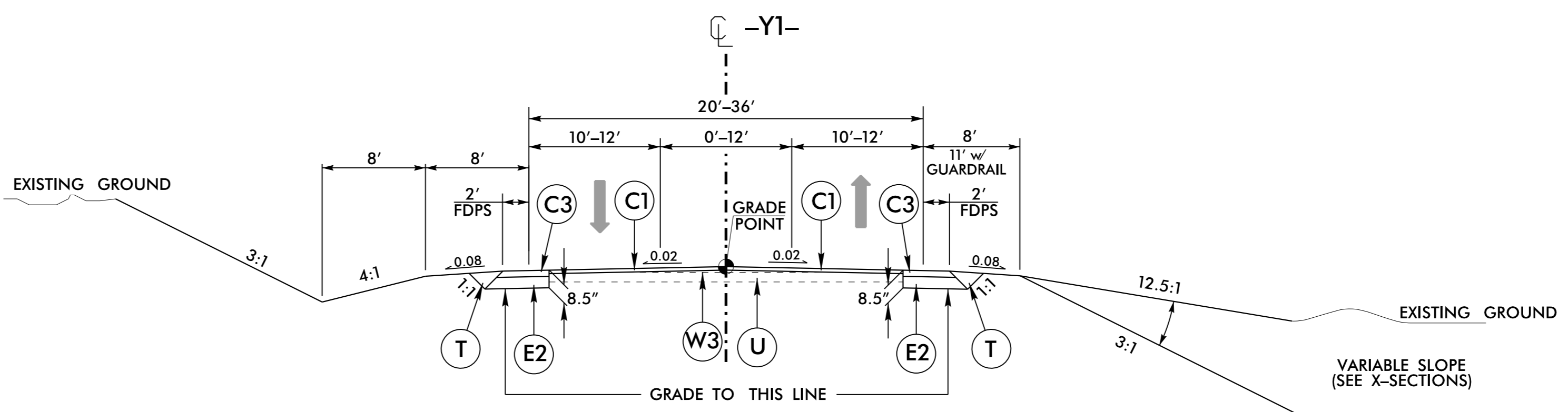
**TYPICAL SECTION 10**  
-Y- STA 19+50.00 TO STA 32+50.00



**W2 - Detail Showing Method of Wedging for -Y-**



**W3 - Detail Showing Method of Wedging for -Y1-, -Y2-**



**TYPICAL SECTION 11**  
-Y1- STA 14+00.00 TO STA 24+50.00

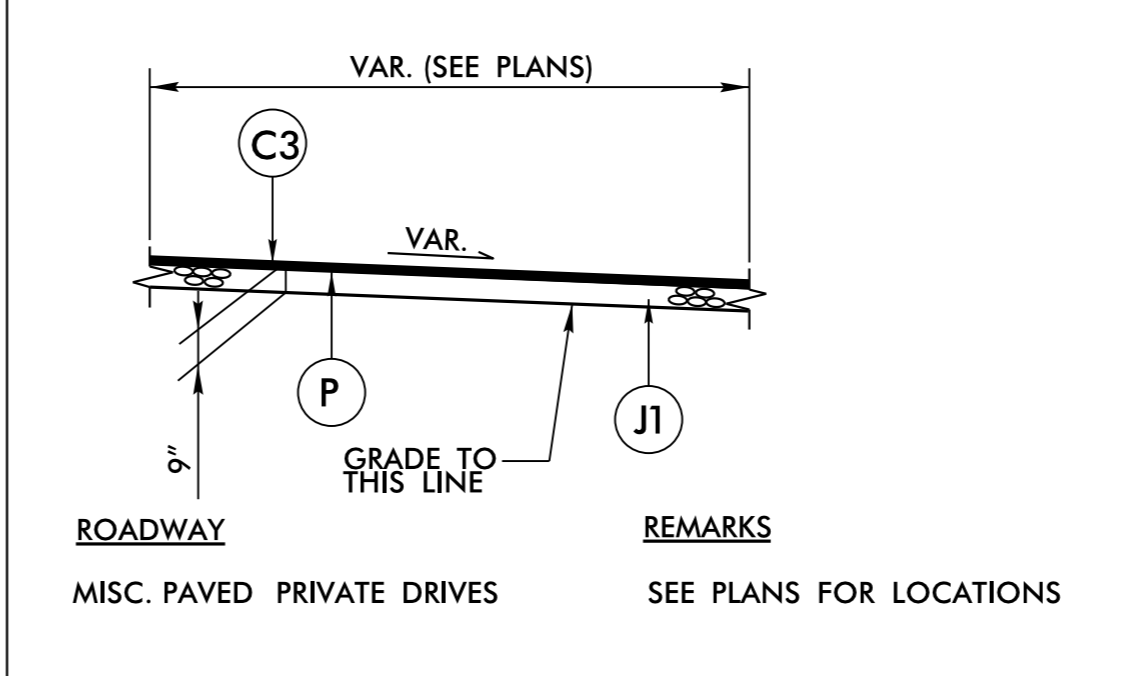
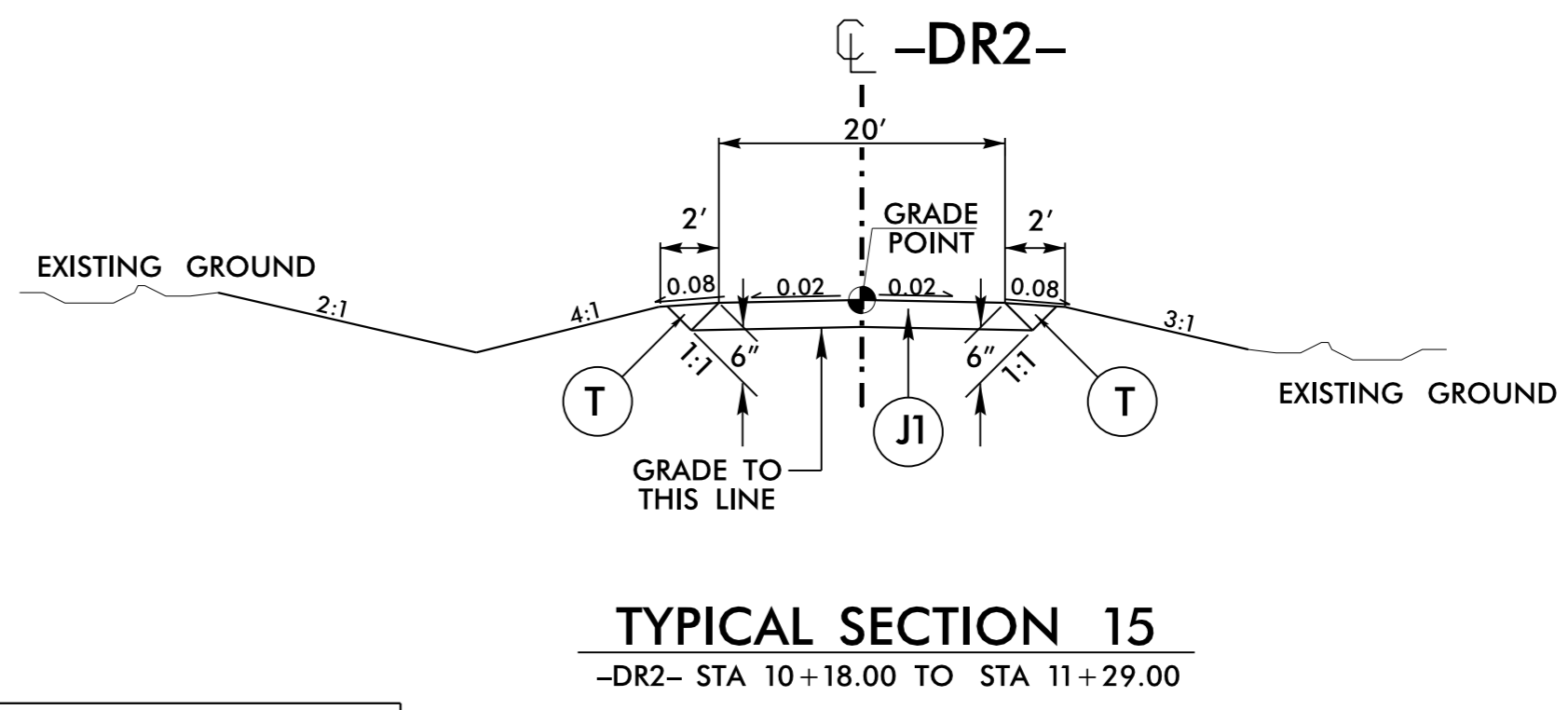
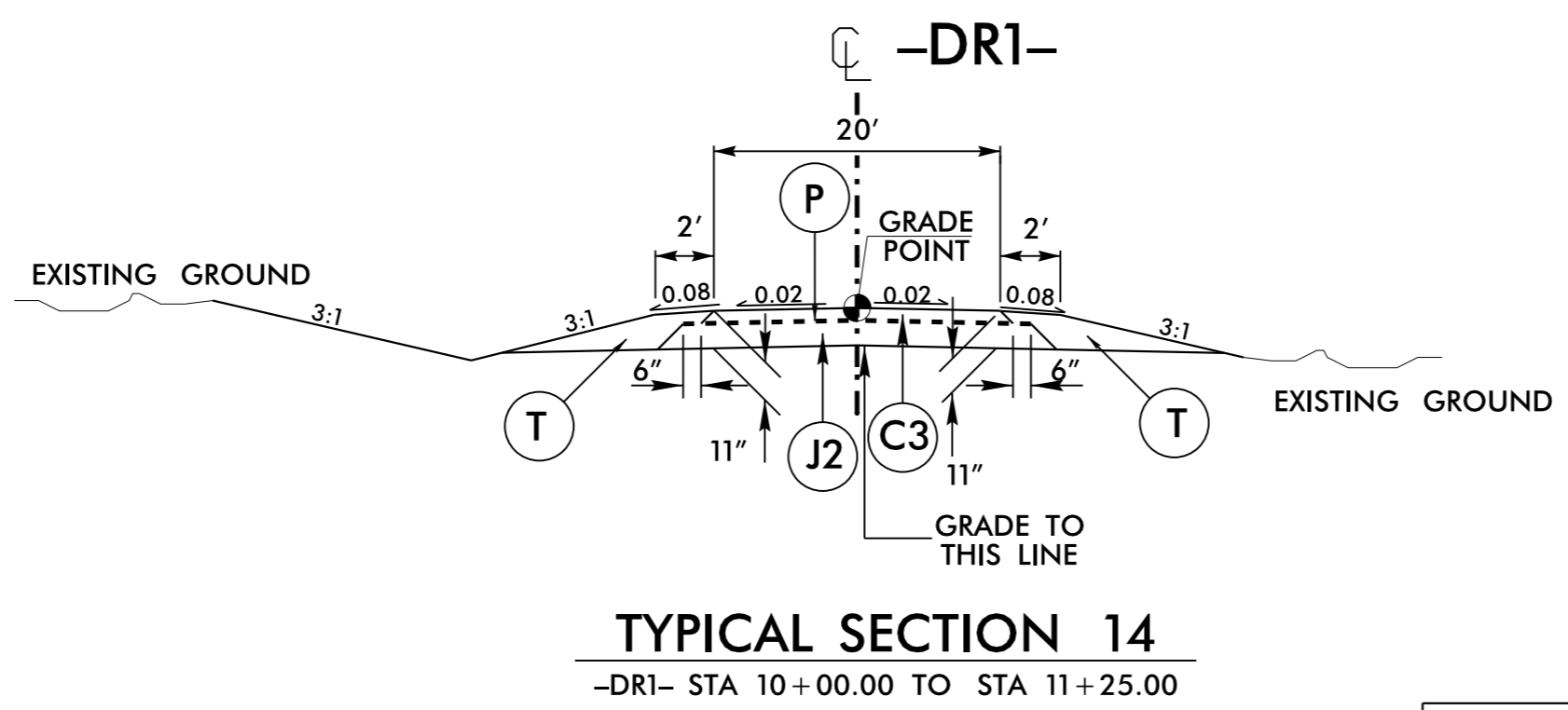
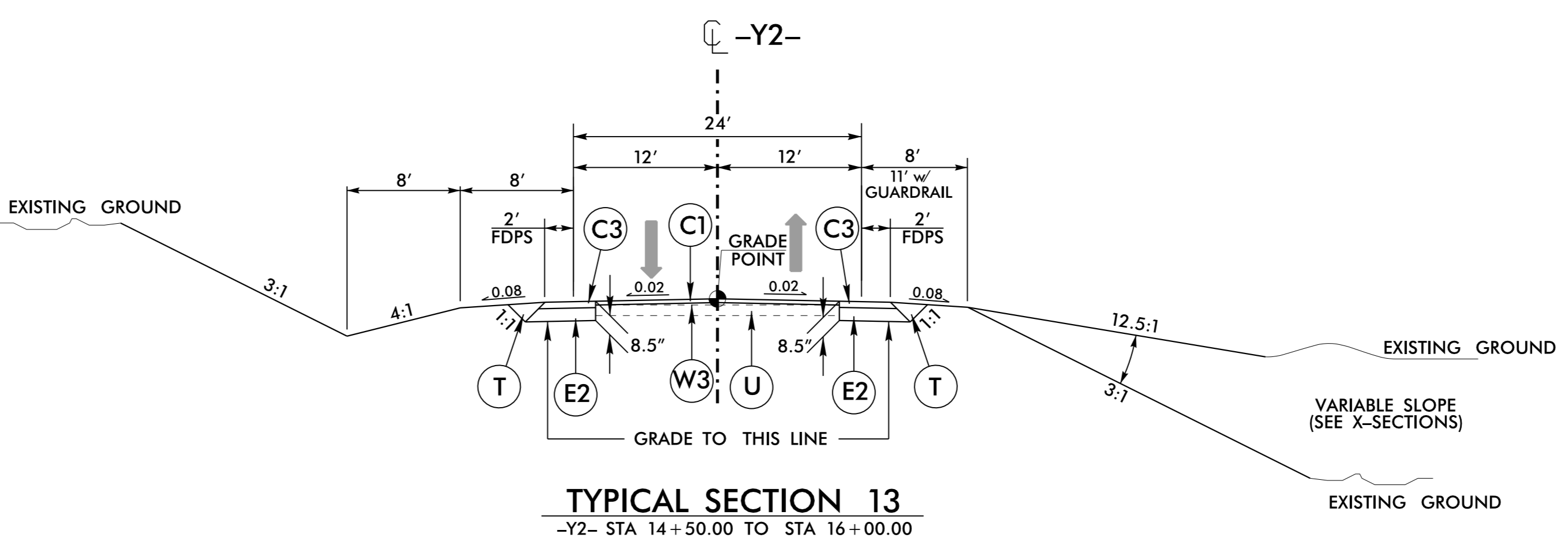
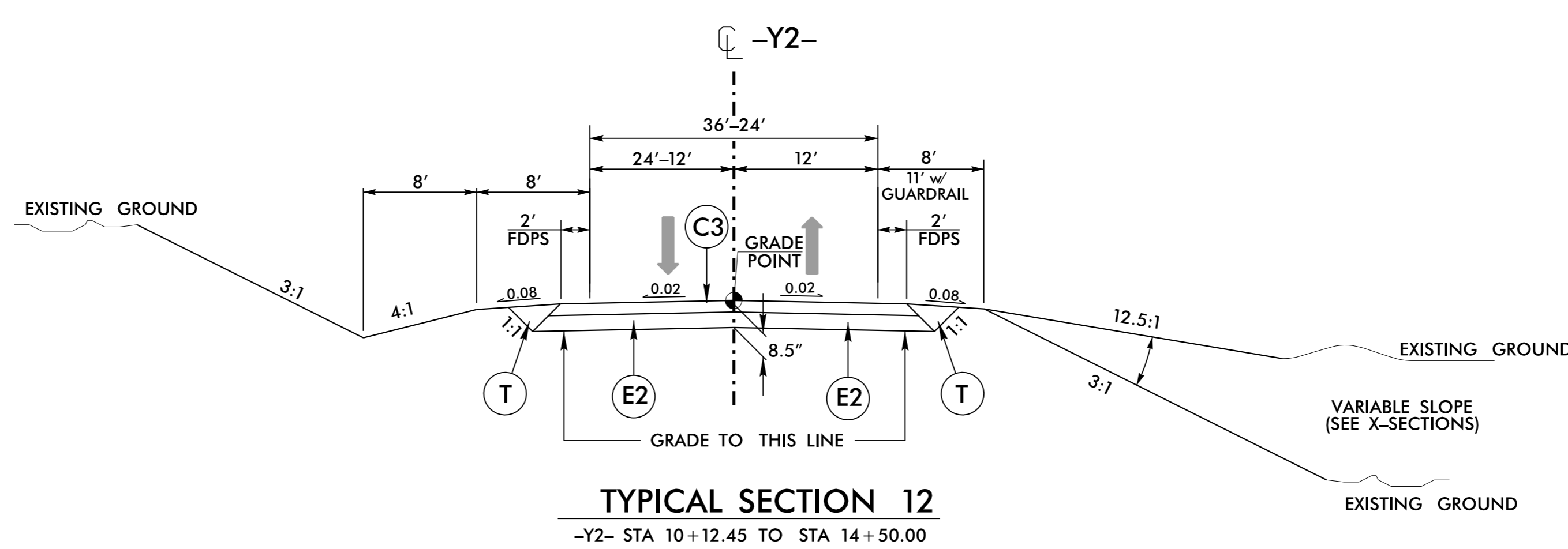
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ROADWAY DESIGN ENGINEER GARY R. LOVERING 025873 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL	PAVEMENT DESIGN ENGINEER CLARK S. MORRISON 022896 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
<p><b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b></p>	

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6/2/99

PAVEMENT SCHEDULE	
C1	1.5" S9.5B
C2	2.5" S9.5B
C3	3" S9.5B
C4	VAR. S9.5B
D1	2.5" I19.0B
D2	4" I19.0B
D3	VAR. I19.0B
E1	4" B25.0B
E2	5.5" B25.0B
E3	VAR. B25.0B
J1	6" ABC
J2	8" ABC
J3	VAR. ABC
P	PRIME COAT
R1	2'-6" C&G
R2	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W1	-L- WEDGING DETAIL
W2	-Y- WEDGING DETAIL
W3	-Y1- -Y2- WEDGING DETAIL

PROJECT REFERENCE NO. <b>R-3826</b>	SHEET NO. <b>2A-5</b>
ROADWAY DESIGN ENGINEER <b>GARY R. LOVERING</b> 025873	PAVEMENT DESIGN ENGINEER <b>CLARK S. MORRISON</b> 022896
<i>Gary Lovering</i>	<i>Clark Morrison</i>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



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STATE OF  
NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

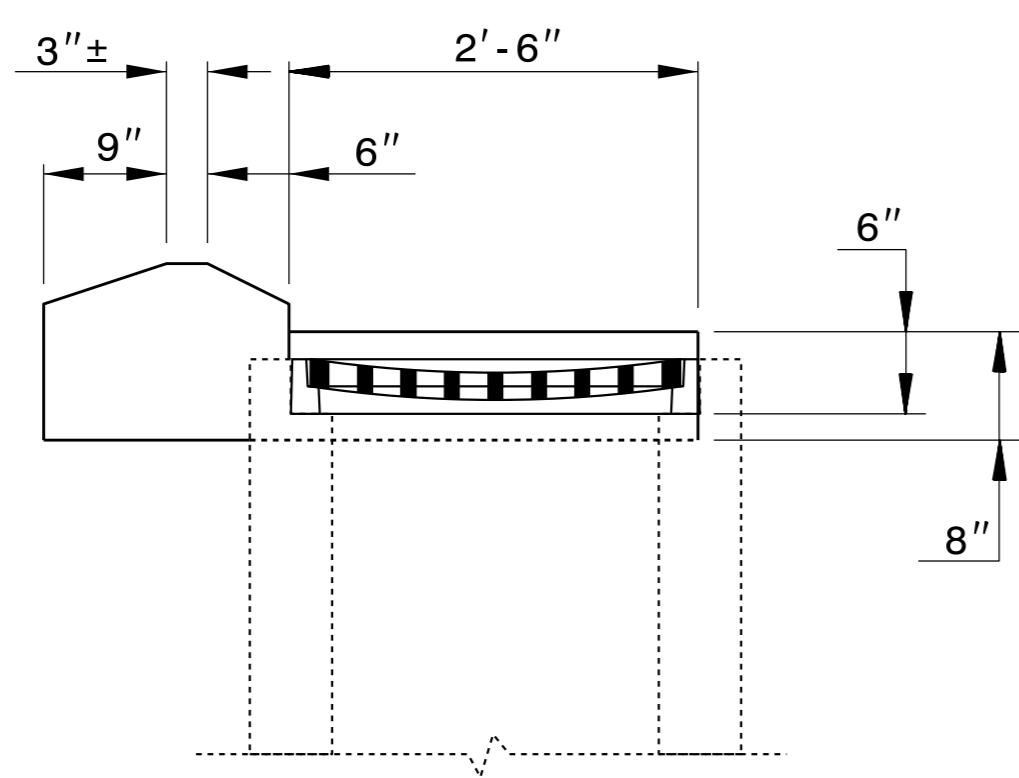
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**METHOD FOR PLACEMENT OF  
DROP INLETS IN CONCRETE ISLANDS**

SHEET 1 OF 1  
**852D06**

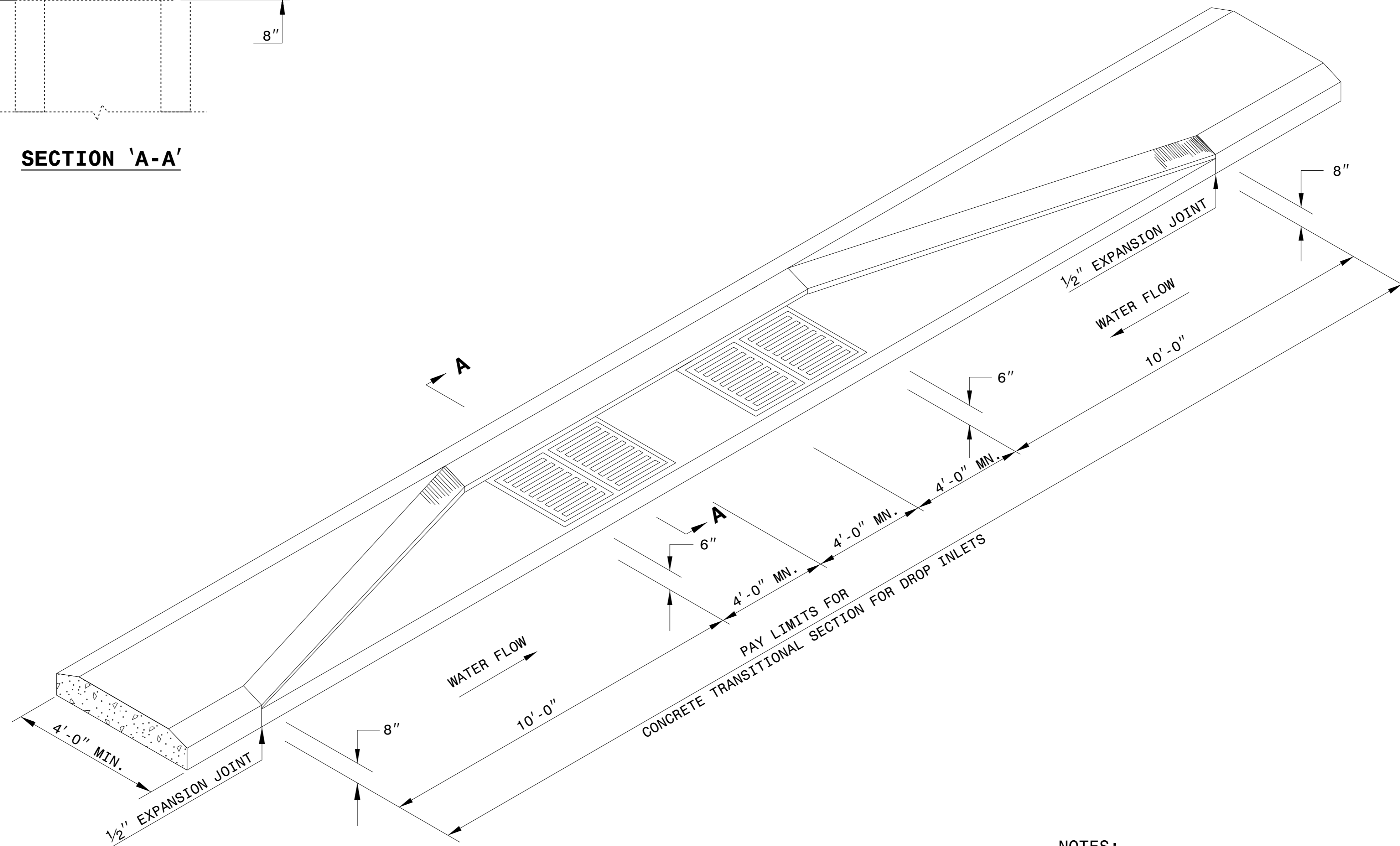
STATE OF  
NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
**METHOD FOR PLACEMENT OF  
DROP INLETS IN CONCRETE ISLANDS**

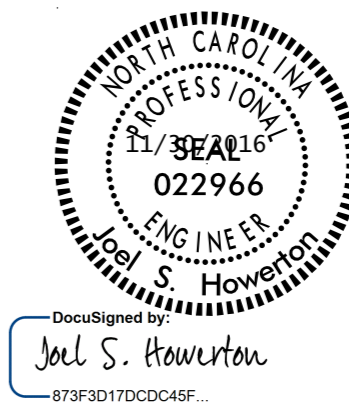
SHEET 1 OF 1  
**852D06**



**SECTION 'A-A'**



- NOTES:  
 -REFER TO STD. NO. 840.14 OR 840.15 FOR DRAINAGE STRUCTURE.  
 -REFER TO STD. NO. 840.16 FOR GRATE AND FRAME.



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**SEE TITLE PLATE**

ORIGINAL BY: KKEMPF DATE: 8/2/10  
 MODIFIED BY: DATE:  
 CHECKED BY: DATE:  
 FILE SPEC.: KKEMPF\ENGLISH\852D0601.DGN

852D06.DWG  
 8/2/10 10:00 AM  
 JKH  
 852D06.DWG  
 8/2/10 10:00 AM  
 JKH





RD-293517

COMPUTED BY: HCN DATE: 1/30/15  
CHECKED BY: MTP DATE: 1/30/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PROJECT NO. SHEET NO.  
R-3826 3D-1

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.  
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Station, Location, Structure No., Top Invert Elevation, Invert Elevation, Slope Critical, Drainage Pipe, C.S. Pipe, R.C. Pipe Class III, R.C. Pipe Class IV, Endwalls, Quantities for Drainage Structures, Frame, Grates, and Hood Standard, Concrete Transitional Section, Drop Inlet, Catch Basin, and Remarks. Includes summary row for SHEET 1 TOTALS.

ABBREVIATIONS

- C.B. CATCH BASIN
- N.D.I. NARROW DROP INLET
- D.I. DROPPED INLET
- G.D.I. (N.S.) GRATED DROP INLET (NARROW SLOT)
- J.B. JUNCTION BOX
- M.H. MANHOLE
- T.B.D.I. TRAFFIC BEARING DROP INLET
- T.B.J.B. TRAFFIC BEARING JUNCTION BOX

REMARKS





COMPUTED BY: GEOTECH      DATE: 10/15/16  
 CHECKED BY: SLS              DATE: 10/17/16

**(4-21-15)**

PROJECT NO.	SHEET NO.
R-3816	3G-1

**STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS**

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
-L-	11+94	17+00	LT	UD	506
-L-	17+00	25+00	LT	UD	800
-L-	27+00	32+00	LT	UD	500
-L-	33+00	36+00	RT	UD	300
-L-	36+00	39+50	RT	UD	350
-L-	40+00	45+00	RT	UD	500
-L-	55+50	59+40	RT	UD	390
-L-	76+50	79+50	LT	UD	300
-L-	81+00	87+00	LT	UD	600
-Y-	21+00	23+17	LT	UD	217
-Y-	24+00	29+29	LT	UD	529
-Y-	29+29	32+00	LT	UD	271
-Y1-	14+00	19+83	RT	UD	583
-Y1-	21+00	25+75	RT	UD	475
CONTINGENCY					1,000
TOTAL LF:					7,321

\*UD = Underdrain  
 \*BD = Blind Drain  
 \*SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type ASU TONS	Aggregate Thickness INCHES	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
CONTINGENCY									
			ASU		1000	1900	2500		
			AST	3					500
TOTAL CY/TONS/SY:					1,000	1,900	2500*		

ASU = Aggregate Subgrade, AST = Aggregate Stabilization  
 \*Total square yards of Geotextile for Soil Stabilization is only the estimated quantity for ASU/AST and may only represent a portion of the geotextile quantity shown in the Item Sheets of the Proposal.



PROJECT REFERENCE NO.	SHEET NO.
R-3826	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

7  
JESSE A. COUNCIL  
DB R-10 PG 705

7A  
ARTHUR COUNCIL'S GARAGE  
DB R-10 PG 705

VIRGINIA ELECTRIC AND POWER COMPANY  
DB U-12 PG 1

VIRGINIA ELECTRIC AND POWER COMPANY  
DB U-12 PG 22

**BEGIN TIP PROJECT R-3826**  
**-L- STA 12+00.00**

INSTALL UNDERDRAINS FROM  
-L- 11+94 TO 17+00, LEFT SIDE.  
TIE TO EXISTING DI AT 11+94 LT.  
UNDERDRAIN SHALL BE PLACED 6 FT  
BELOW SUBGRADE AT PROPOSED EOP.

3  
MARTIN COUNTY COMMUNITY COLLEGE  
DB P-8 PG 242

7  
JESSE A. COUNCIL  
DB R-10 PG 705

6  
HEIRS OF DOROTHY RHODES  
DB K-12 PG 309  
DB D-13 PG 758  
MB 12 PG 46

MARIE BOWEN ANDERSON  
DB M-17 PG 56

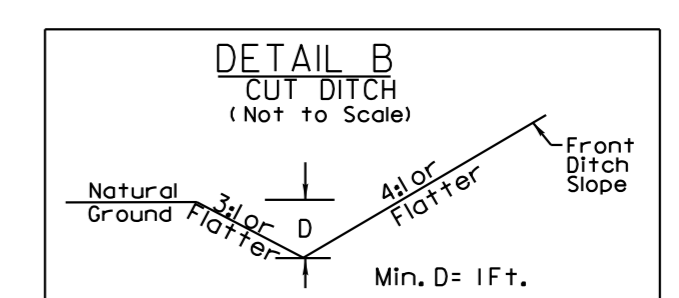
1  
JOSEPH D. KEEL  
DB H-9 PG 643

2  
BOBBY BOWEN RENTALS, LLC  
DB P-25 PG 262

5  
JIMMIE R. COUNCIL, ETALS  
DB B-17 PG 428

4  
DEBORAH L. BROWN  
DB T-25 PG II

-L-  
PI Sta 20+03.13  
 $\Delta = 27^{\circ} 12' 54.4" (LT)$   
 $D = 5^{\circ} 43' 46.5"$   
 $L = 474.99'$   
 $T = 242.07'$   
 $R = 1,000.00'$   
SE = SEE PLANS



FROM STA. 17+00 -L- TO STA. 26+34 -L- LT  
FROM STA. 12+00 -L- TO STA. 13+00 -L- RT  
FROM STA. 14+00 -L- TO STA. 26+36 -L- RT

DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.

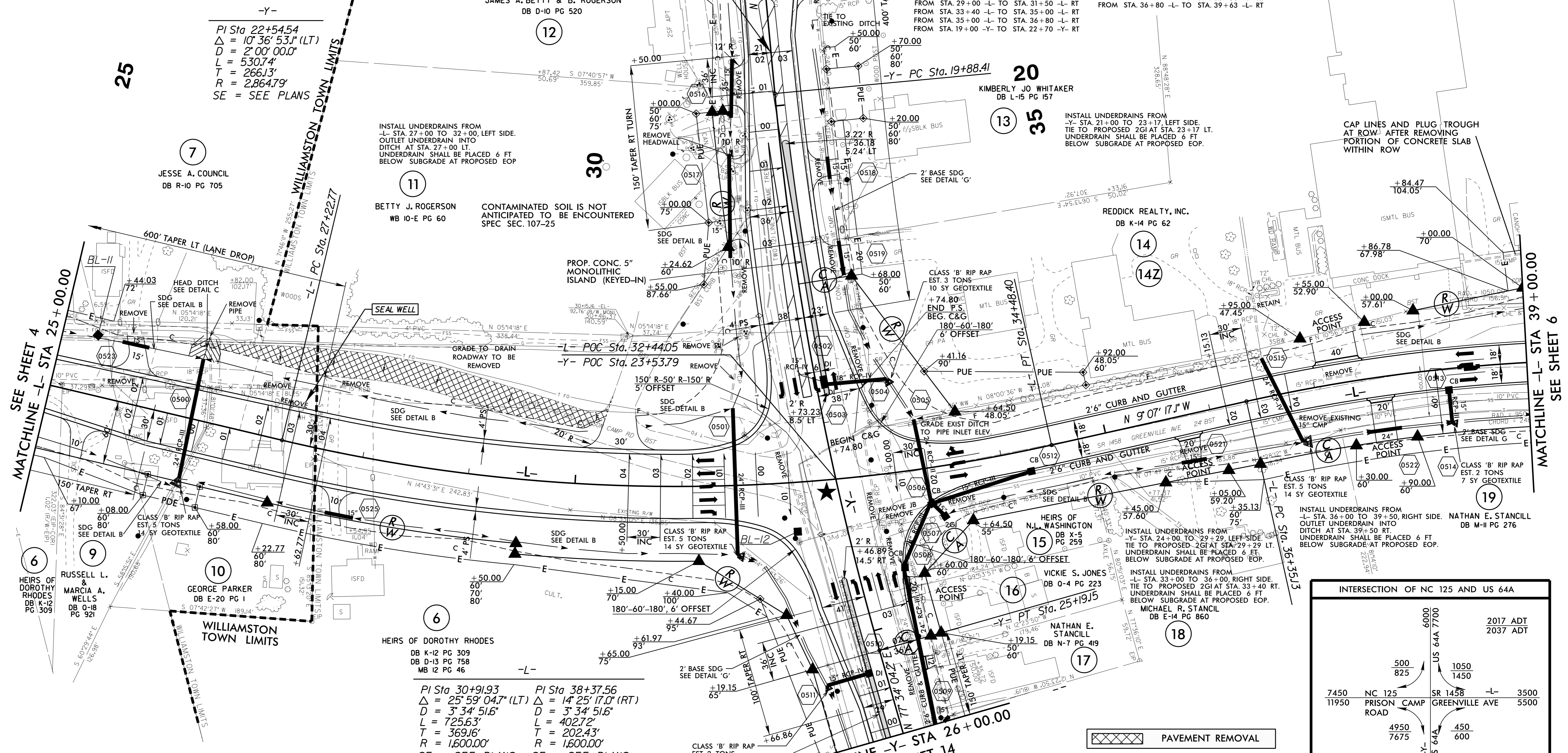
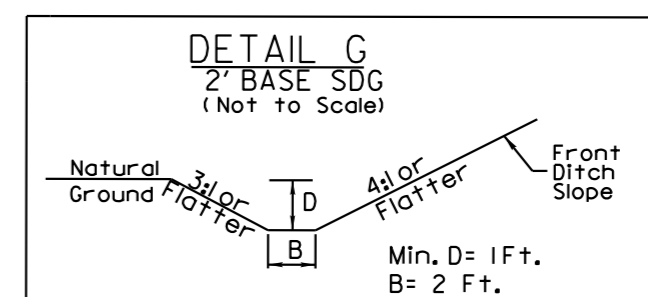
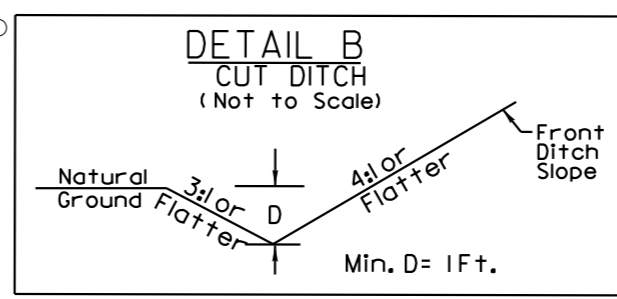
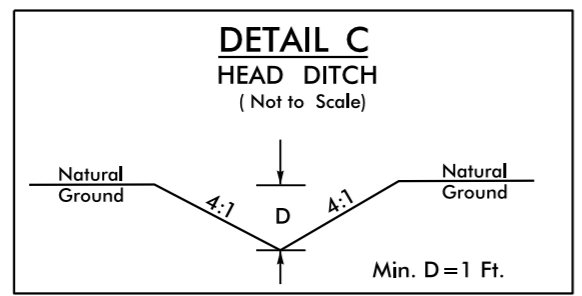
FOR -L- PROFILE, SEE SHEET 16

5/14/99

REVISIONS

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NAD 83/96



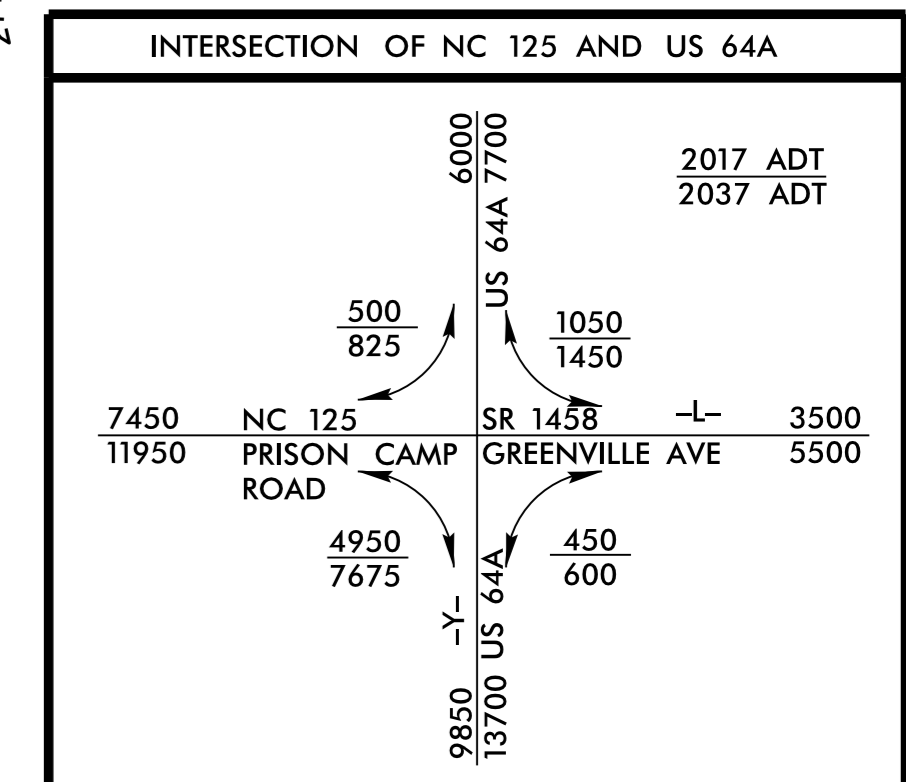
-Y-  
 PI Sta 22+54.54  
 $\Delta = 10^{\circ} 36' 53.1''$  (LT)  
 $D = 2^{\circ} 00' 00.0''$   
 $L = 530.74'$   
 $T = 266.13'$   
 $R = 2,864.79'$   
 SE = SEE PLANS

PI Sta 30+91.93      PI Sta 38+37.56  
 $\Delta = 25^{\circ} 59' 04.7''$  (LT)       $\Delta = 14^{\circ} 25' 17.0''$  (RT)  
 $D = 3^{\circ} 34' 51.6''$        $D = 3^{\circ} 34' 51.6''$   
 $L = 725.63'$        $L = 402.72'$   
 $T = 369.16'$        $T = 202.43'$   
 $R = 1,600.00'$        $R = 1,600.00'$   
 SE = SEE PLANS      SE = SEE PLANS

PAVEMENT REMOVAL

REVISED SIGNAL

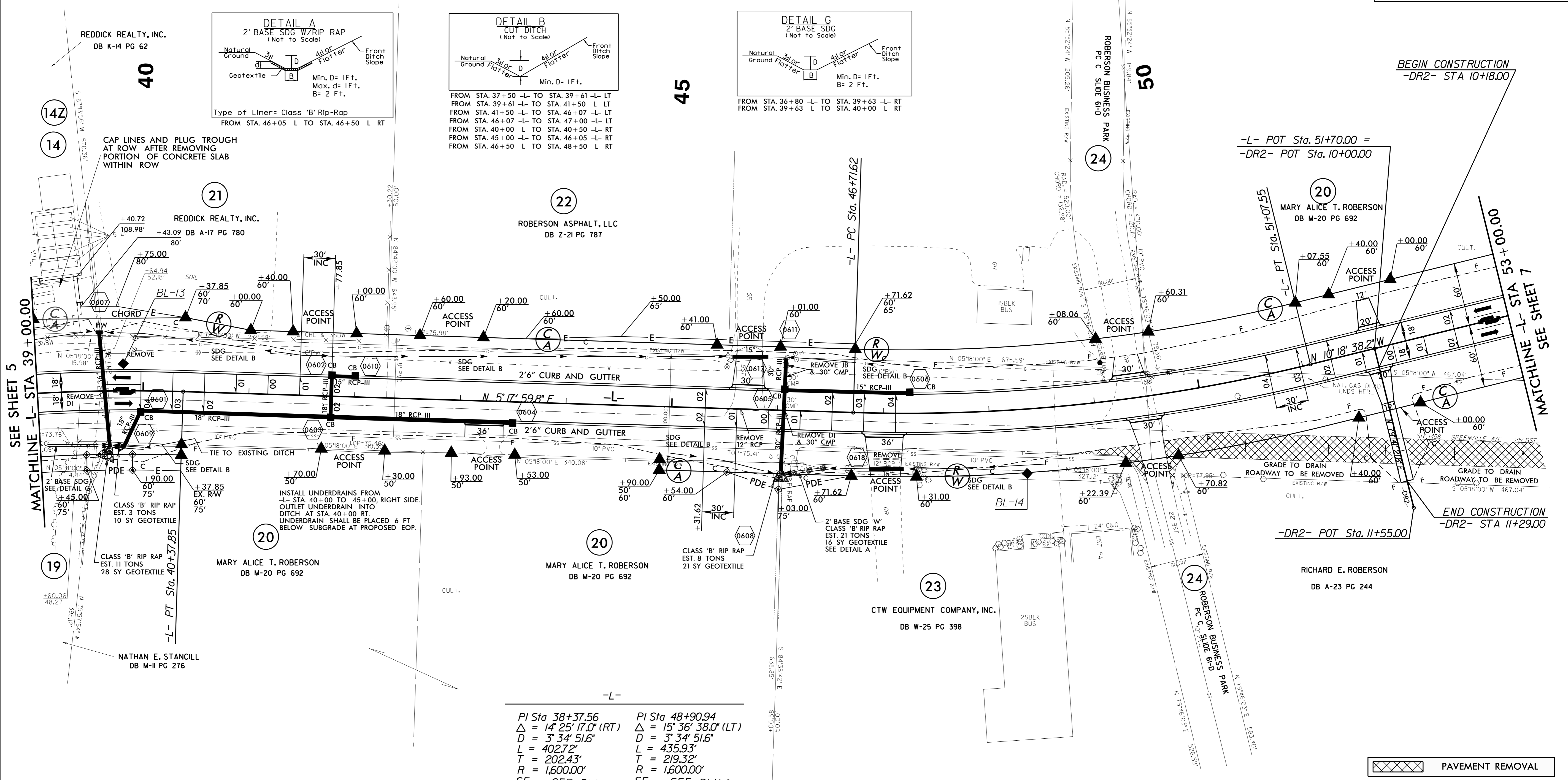
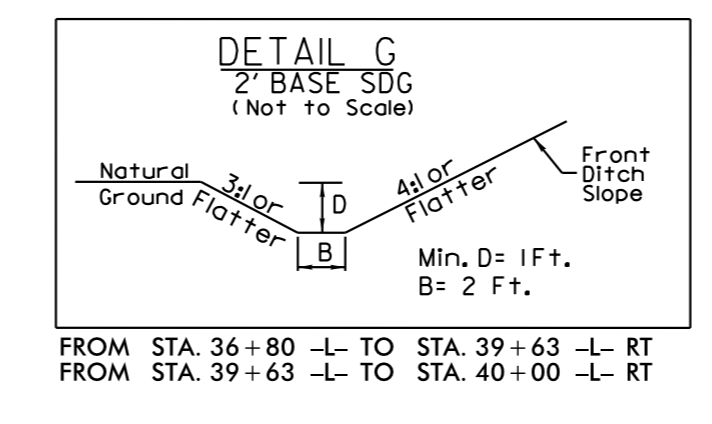
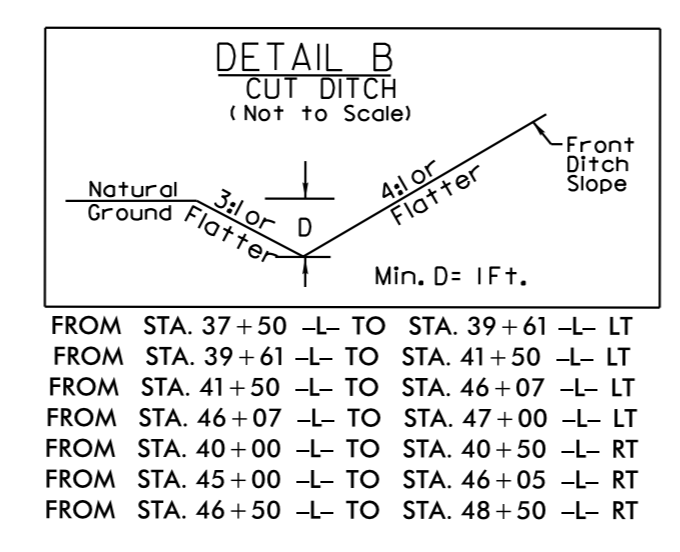
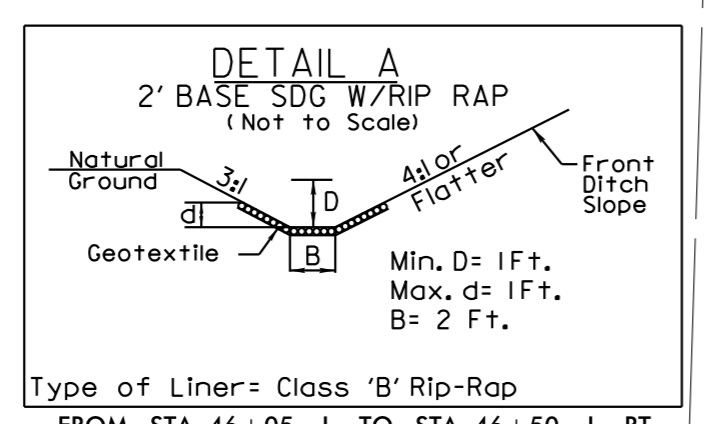
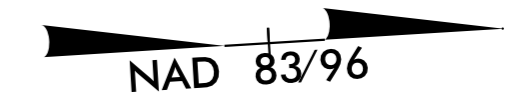
DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.



FOR -L- PROFILE, SEE SHEET 16  
 FOR -Y- PROFILE, SEE SHEET 21

REVISIONS

22-NOV-2016 10:55 R3826.Rdy.psh\_5.dgn



PI Sta 38+37.56	PI Sta 48+90.94
$\Delta = 14^{\circ} 25' 17.0''$ (RT)	$\Delta = 15^{\circ} 36' 38.0''$ (LT)
D = 3' 34' 51.6"	D = 3' 34' 51.6"
L = 402.72'	L = 435.93'
T = 202.43'	T = 219.32'
R = 1600.00'	R = 1600.00'
SE = SEE PLANS	SE = SEE PLANS

 PAVEMENT REMOVAL

DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.

FOR -L- PROFILE, SEE SHEET 17

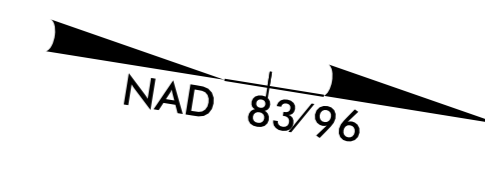
FOR -DR2- PROFILE, SEE SHEET 22

REVISIONS

5/14/99

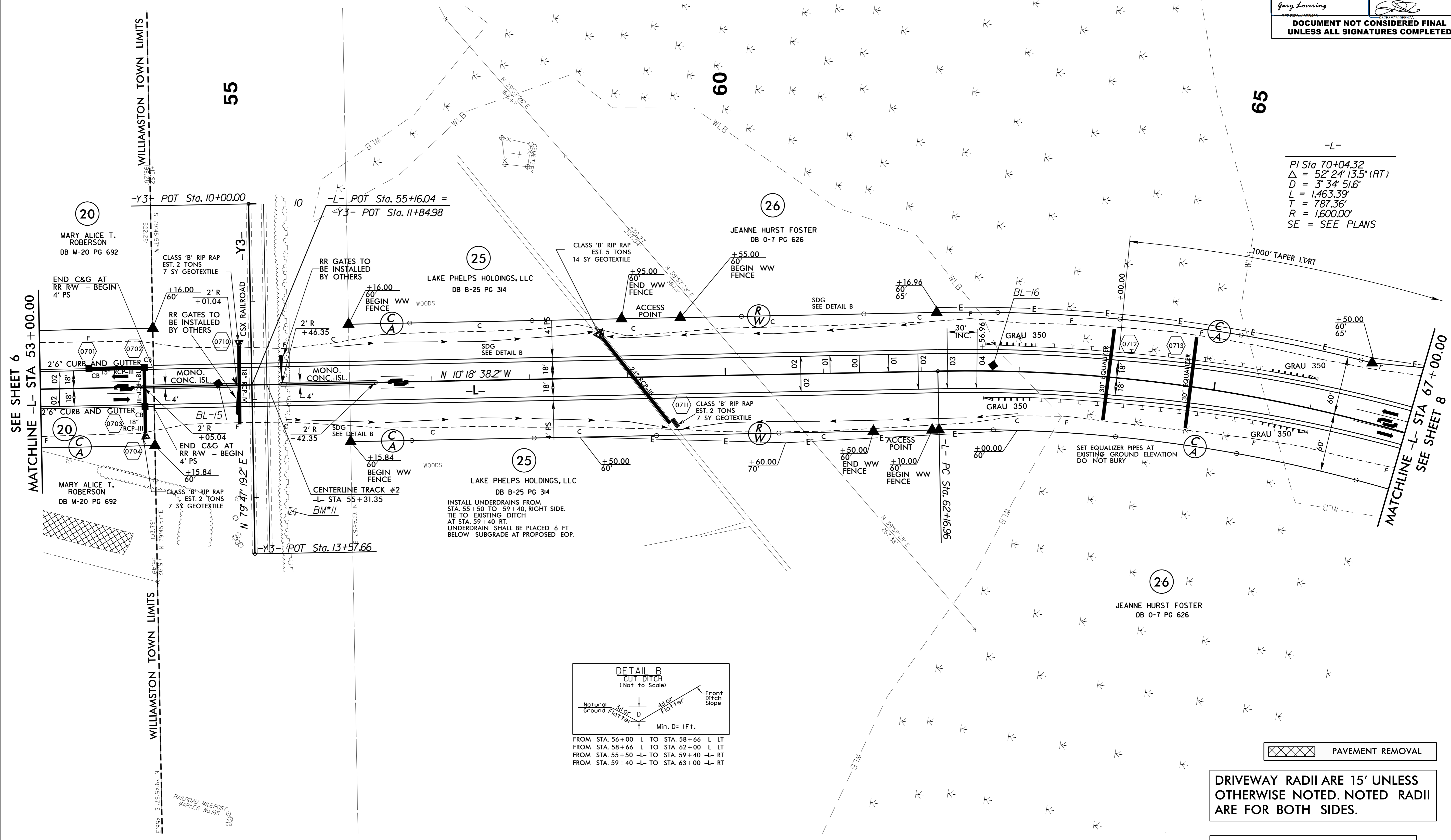
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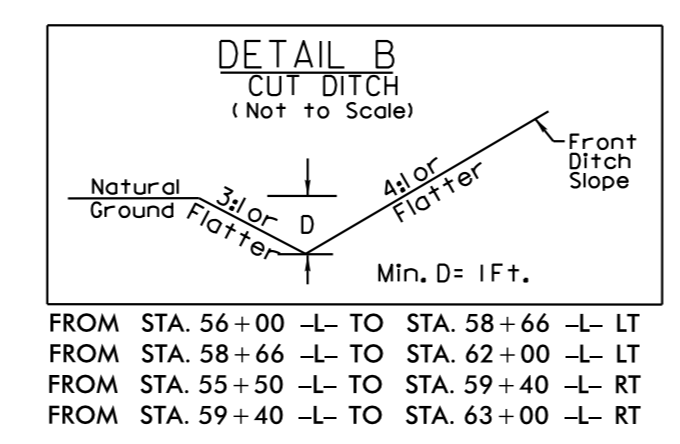
-L-  
 PI Sta 70+04.32  
 $\Delta = 52' 24" 13.5" (RT)$   
 $D = 3' 34" 51.6"$   
 $L = 1,463.39'$   
 $T = 787.36'$   
 $R = 1,600.00'$   
 SE = SEE PLANS

REVISIONS



SEE SHEET 6  
MATCHLINE -L- STA 53+00.00


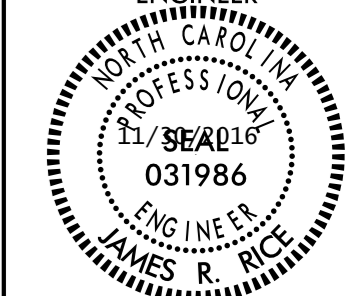
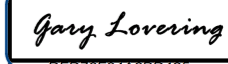
MATCHLINE -L- STA 67+00.00  
SEE SHEET 8

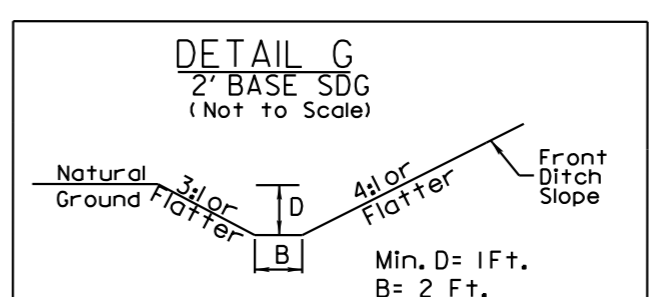
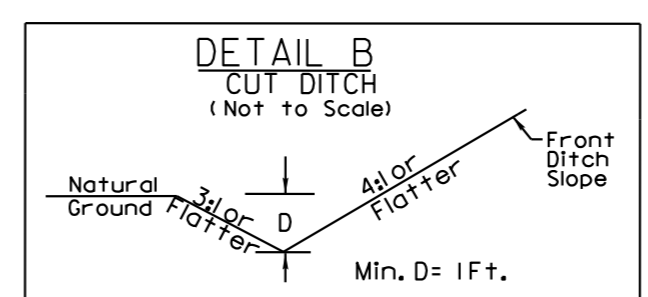
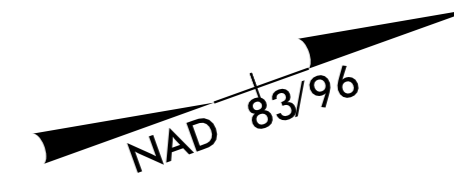


PAVEMENT REMOVAL

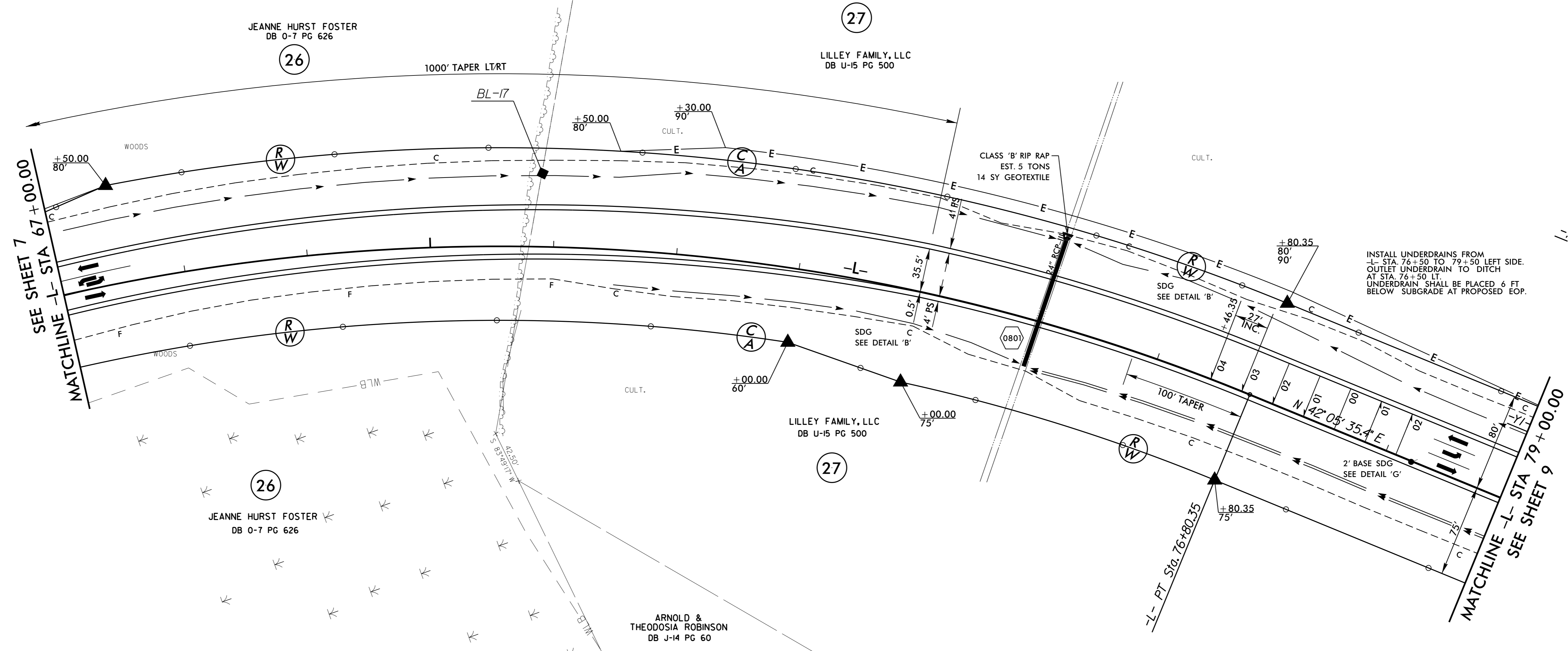
DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.

FOR -L- PROFILE, SEE SHEET 17

PROJECT REFERENCE NO.	SHEET NO.
R-3826	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 GARY R. LOVING	 JAMES R. RICE
DocuSign'd by:  Gary Loving	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



-L-  
PI Sta 70+04.32  
 $\Delta = 52^{\circ} 24' 13.5'' (RT)$   
 $D = 3^{\circ} 34' 51.6''$   
 $L = 1,463.39'$   
 $T = 787.36'$   
 $R = 1,600.00'$   
SE = SEE PLANS



DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.

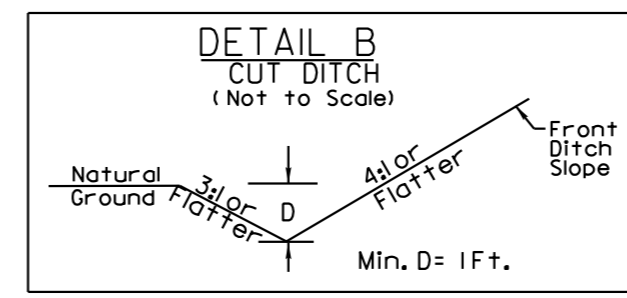
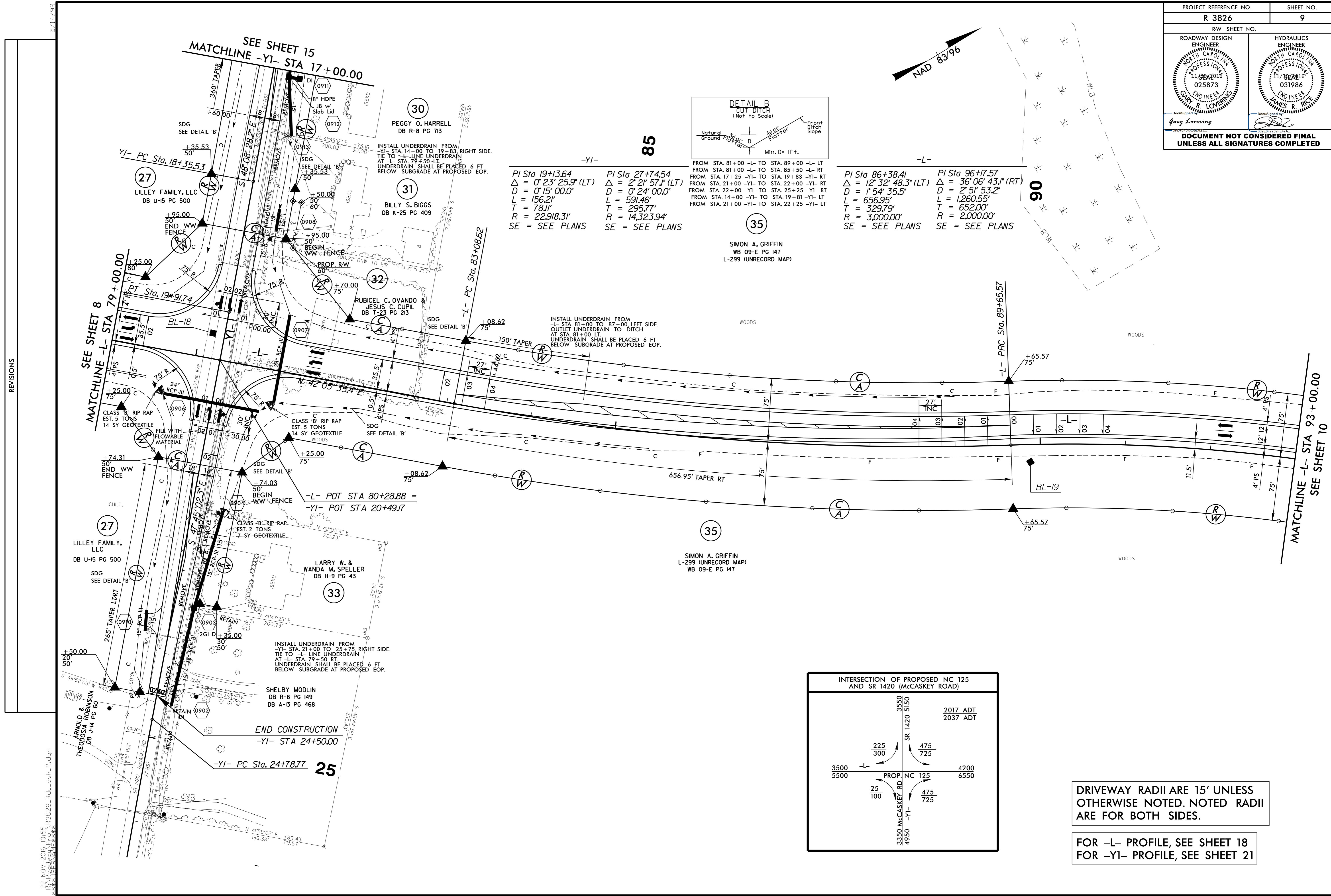
FOR -L- PROFILE, SEE SHEET 18

REVISIONS

5/14/99

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48343 5/14/99 10:55 AM R3826\_Rdy\_psh\_8.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-3826	9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**85**

-Y1-  
 PI Sta 19+13.64  
 $\Delta = 0^{\circ} 23' 25.9''$  (LT)  
 $D = 0' 15' 00.0''$   
 $L = 156.21'$   
 $T = 78.11'$   
 $R = 22,918.31'$   
 SE = SEE PLANS

PI Sta 27+74.54  
 $\Delta = 2^{\circ} 21' 57.1''$  (LT)  
 $D = 0' 24' 00.0''$   
 $L = 591.46'$   
 $T = 295.77'$   
 $R = 14,323.94'$   
 SE = SEE PLANS

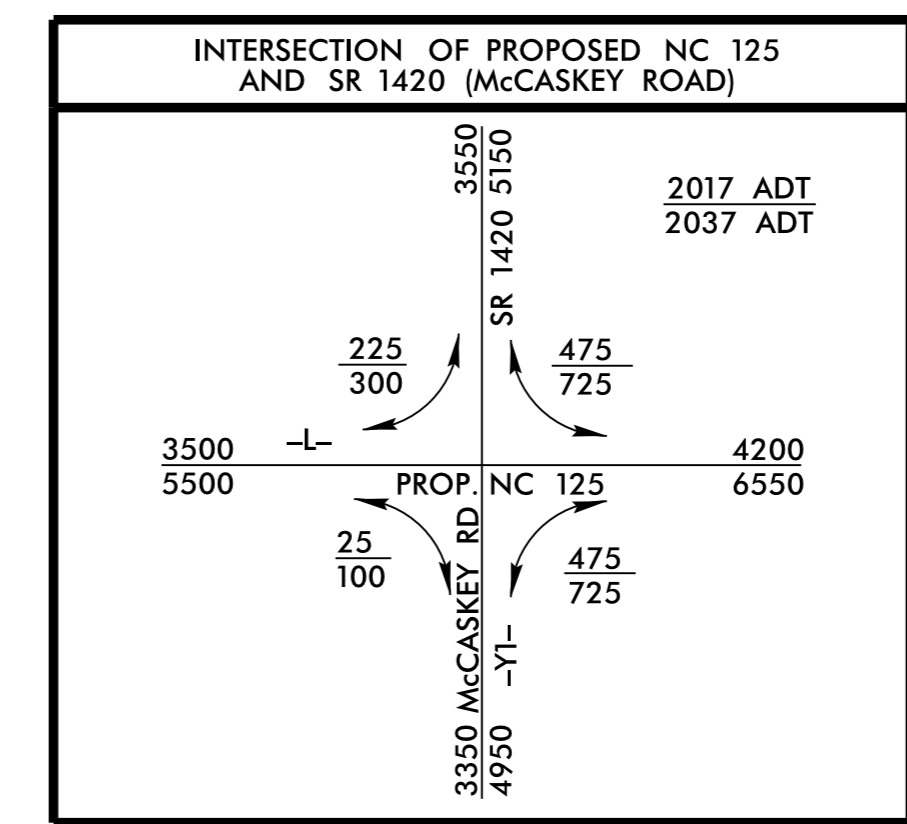
-L-  
 FROM STA. 81+00 -L- TO STA. 89+00 -L- LT  
 FROM STA. 81+00 -L- TO STA. 85+50 -L- RT  
 FROM STA. 17+25 -Y1- TO STA. 19+83 -Y1- RT  
 FROM STA. 21+00 -Y1- TO STA. 22+00 -Y1- RT  
 FROM STA. 22+00 -Y1- TO STA. 22+25 -Y1- RT  
 FROM STA. 14+00 -Y1- TO STA. 19+81 -Y1- LT  
 FROM STA. 21+00 -Y1- TO STA. 22+25 -Y1- LT

-L-  
 PI Sta 86+38.41  
 $\Delta = 12^{\circ} 32' 48.3''$  (LT)  
 $D = 1' 54' 35.5''$   
 $L = 656.95'$   
 $T = 329.79'$   
 $R = 3,000.00'$   
 SE = SEE PLANS

PI Sta 96+17.57  
 $\Delta = 36^{\circ} 06' 43.1''$  (RT)  
 $D = 2' 51' 53.2''$   
 $L = 1,260.55'$   
 $T = 652.00'$   
 $R = 2,000.00'$   
 SE = SEE PLANS

**35**  
 SIMON A. GRIFFIN  
 WB 09-E PG 147  
 L-299 (UNRECORD MAP)

**35**  
 SIMON A. GRIFFIN  
 L-299 (UNRECORD MAP)  
 WB 09-E PG 147



DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.

FOR -L- PROFILE, SEE SHEET 18  
 FOR -Y1- PROFILE, SEE SHEET 21

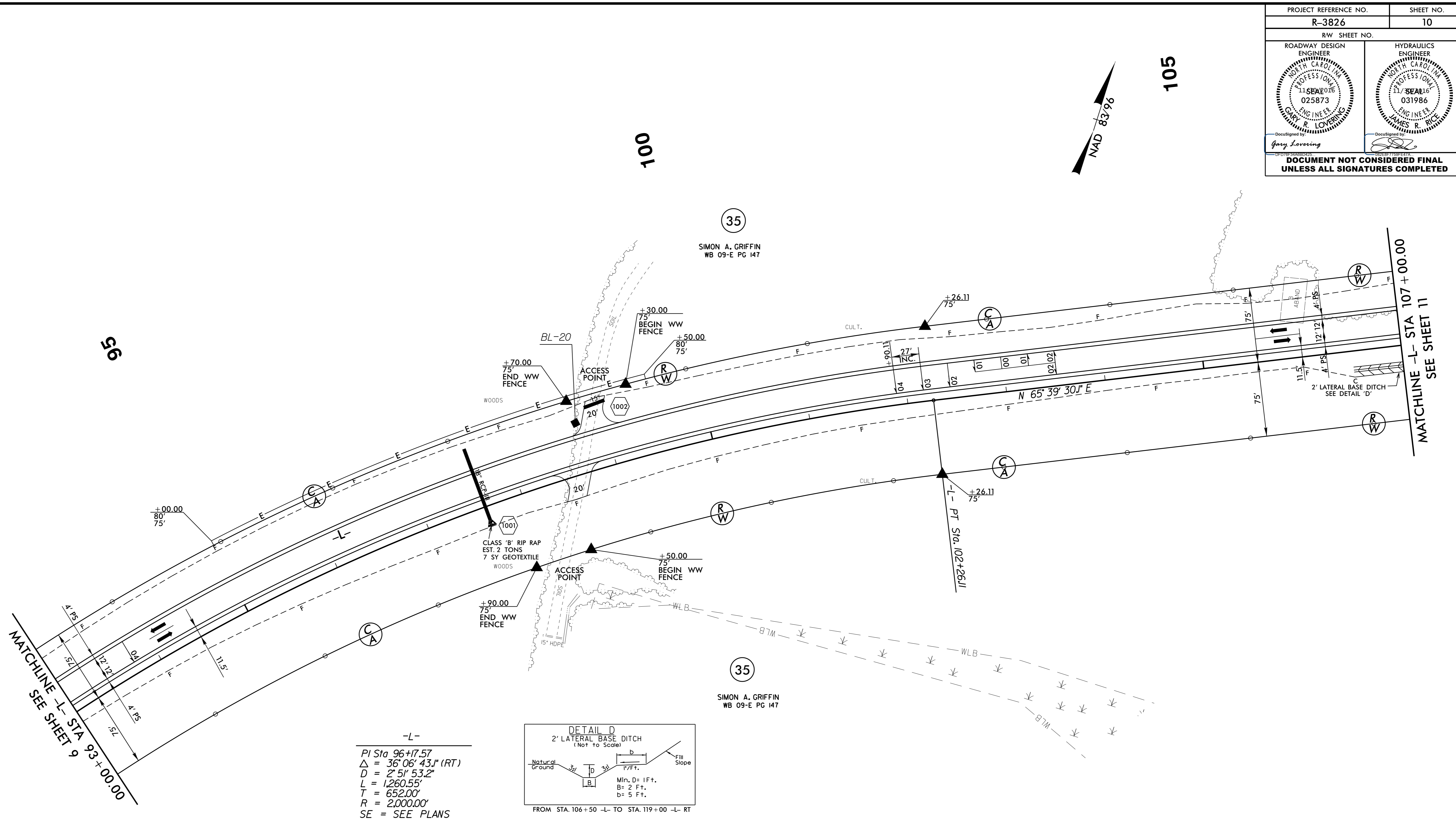
REVISIONS

5/14/99  
 22-NOV-2016 10:55 R3826.Rdy.psh\_9.dgn  
 8:53 AM

PROJECT REFERENCE NO.	SHEET NO.
R-3826	10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DocuSigned by: Gary Lovering	DocuSigned by: James R. Riccio
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

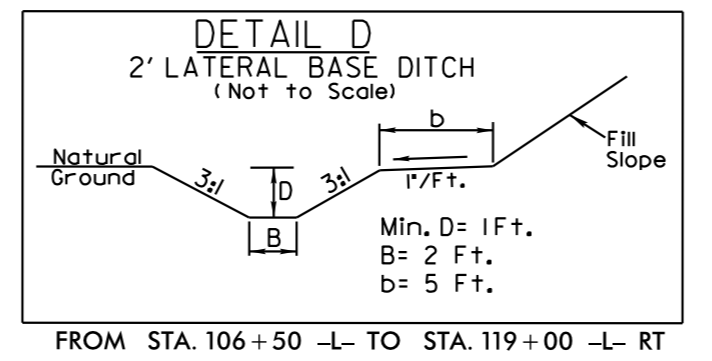
5/14/99

REVISIONS



MATCHLINE -L- STA 93 + 00.00  
SEE SHEET 9

-L-  
 PI Sta 96+17.57  
 $\Delta = 36^{\circ}06'43.1''$  (RT)  
 $D = 2^{\circ}51'53.2''$   
 $L = 1,260.55'$   
 $T = 652.00'$   
 $R = 2,000.00'$   
 SE = SEE PLANS

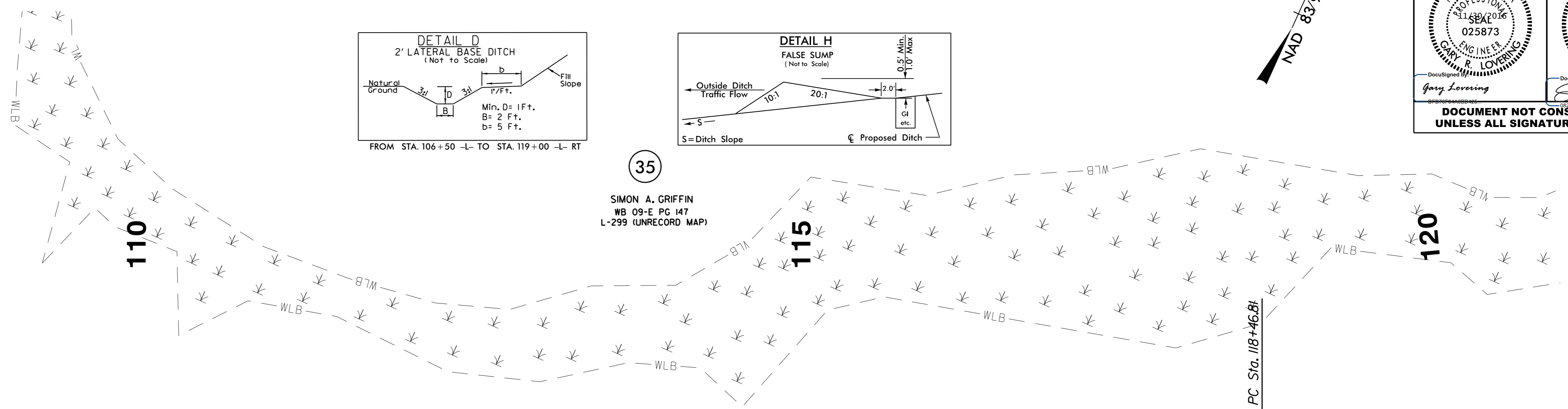
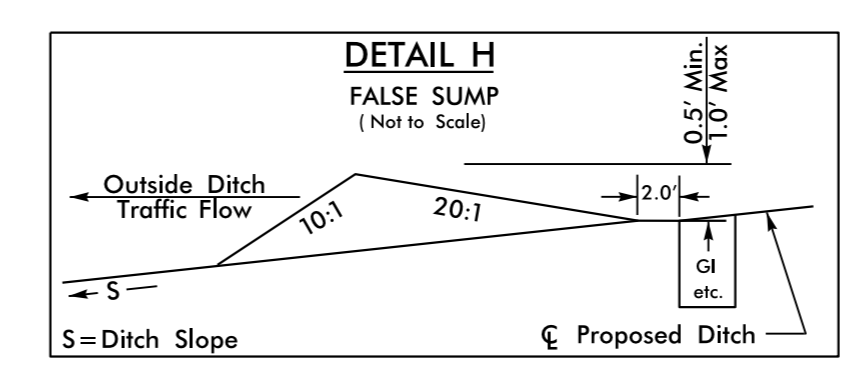
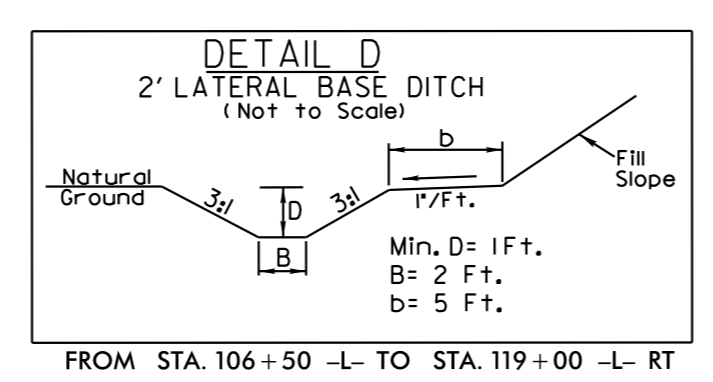
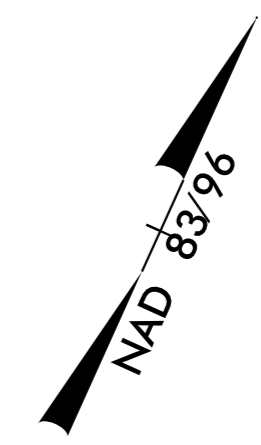


DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.

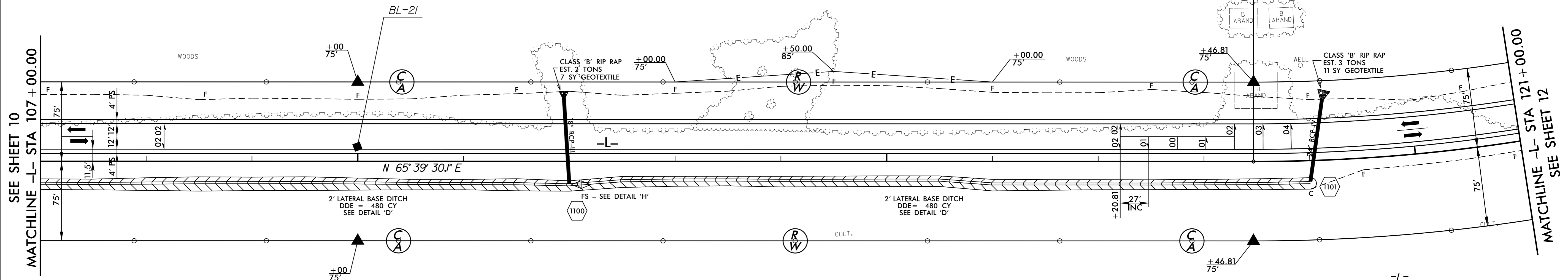
FOR -L- PROFILE, SEE SHEET 19

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PROJECT REFERENCE NO.	SHEET NO.
R-3826	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DocuSigned by: Gary Lovering	DocuSigned by: James R. Rice
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



(35)  
SIMON A. GRIFFIN  
WB 09-E PG 147  
L-299 (UNRECORD MAP)



-L-  
PI Sta 138+60.98  
 $\Delta = 10^\circ 21' 05.8''$  (LT)  
 $D = 3' 28' 20.9''$   
 $L = 2,918.72'$   
 $T = 2,014.17'$   
 $R = 1,650.00'$   
SE = SEE PLANS

(35)  
SIMON A. GRIFFIN  
WB 09-E PG 147  
L-299 (UNRECORD MAP)

DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.

FOR -L- PROFILE, SEE SHEET 19

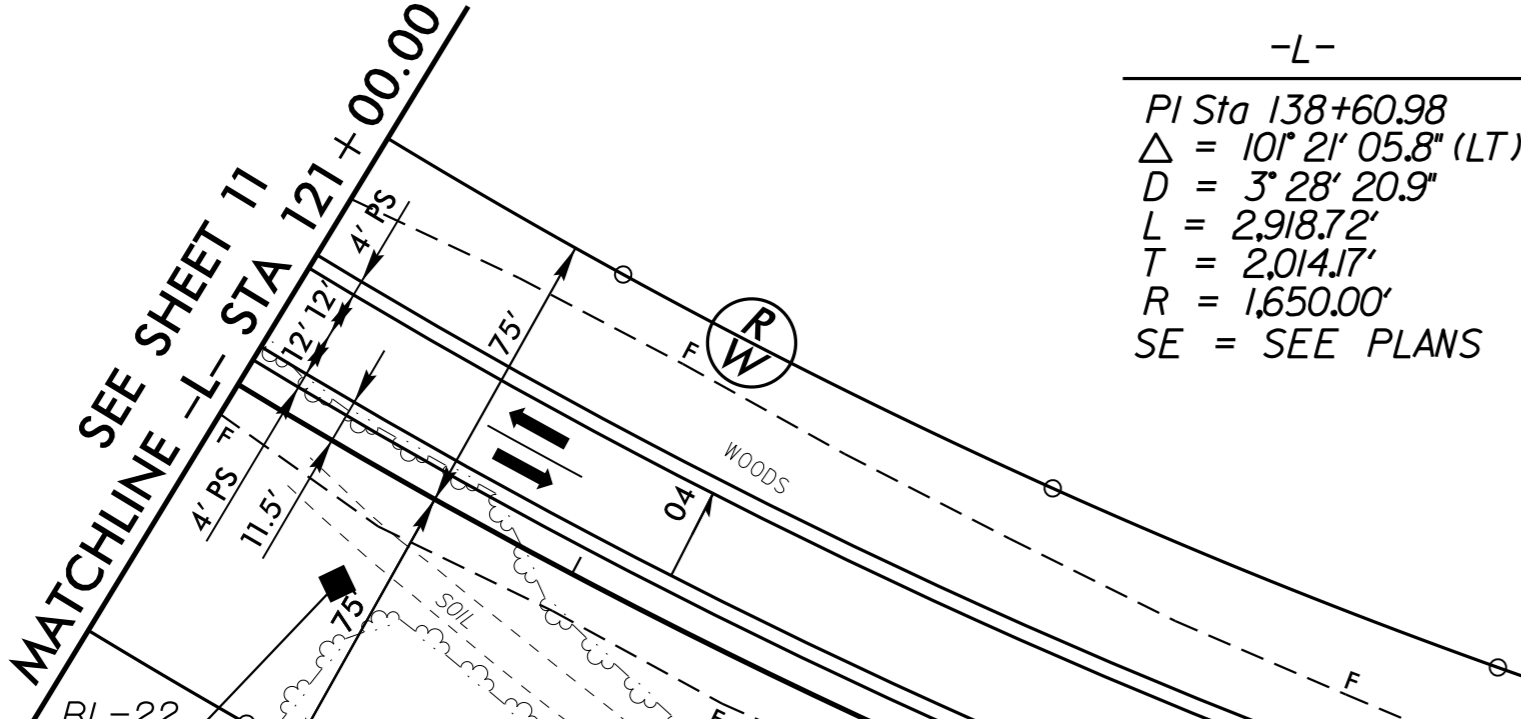
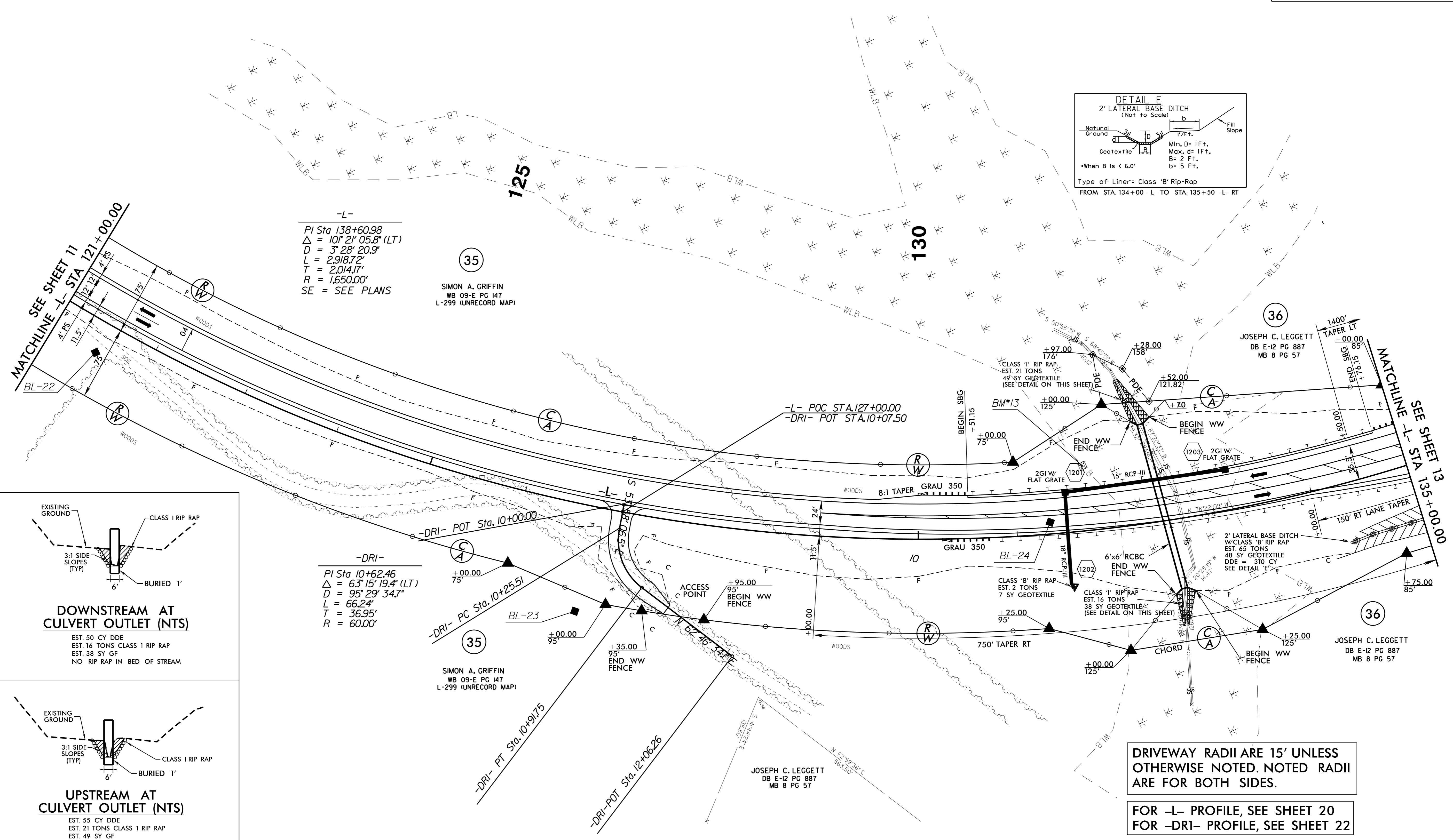
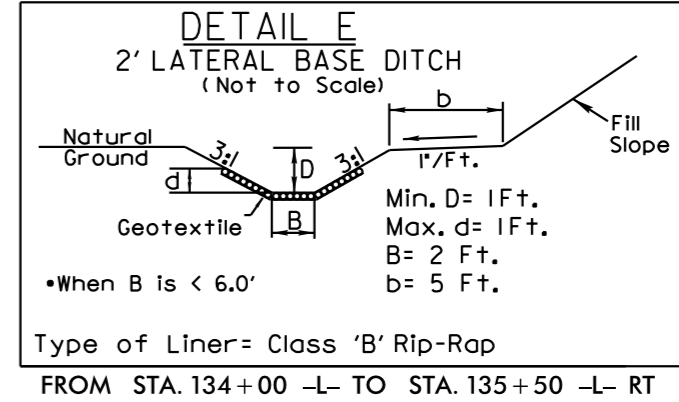
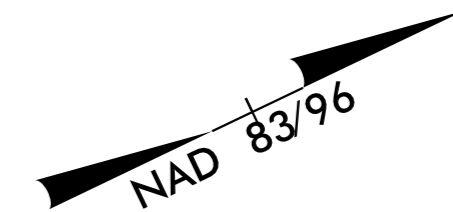
REVISIONS

SEE SHEET 10  
MATCHLINE -L- STA 107+00.00

MATCHLINE -L- STA 121+00.00  
SEE SHEET 12

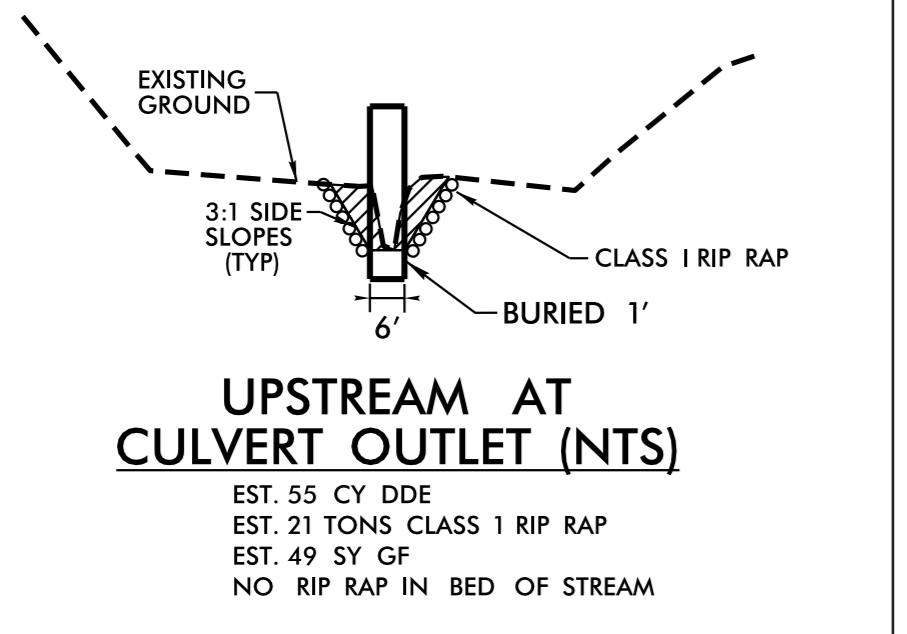
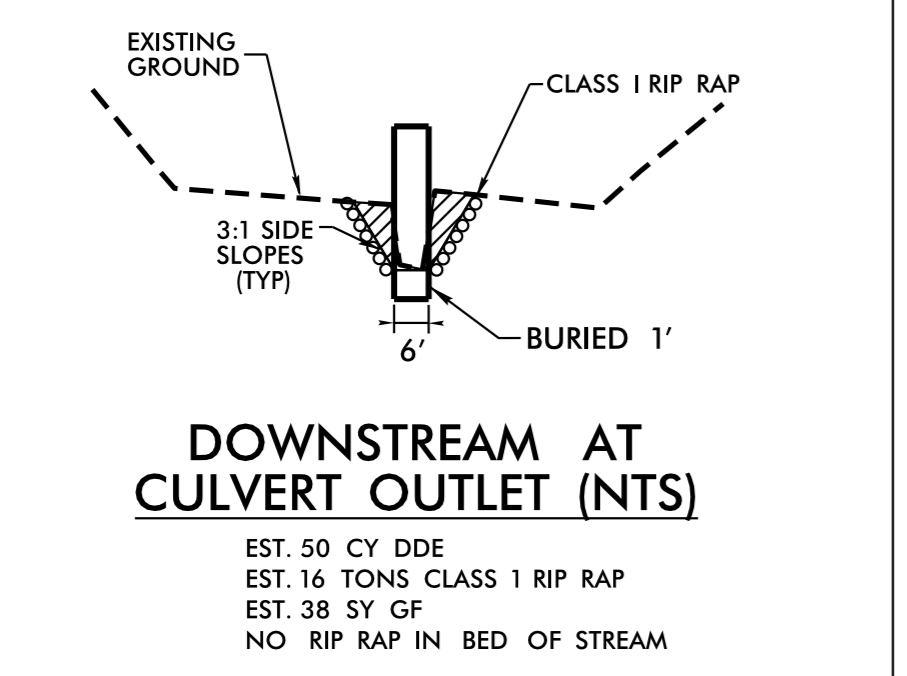
5/14/99

22-NOV-2016 10:55 R3826\_Rdy\_psh\_11.dgn  
6533 31025873 025873



(35)  
SIMON A. GRIFFIN  
WB 09-E PG 147  
L-299 (UNRECORD MAP)

(36)  
JOSEPH C. LEGGETT  
DB E-12 PG 887  
MB 8 PG 57



DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.

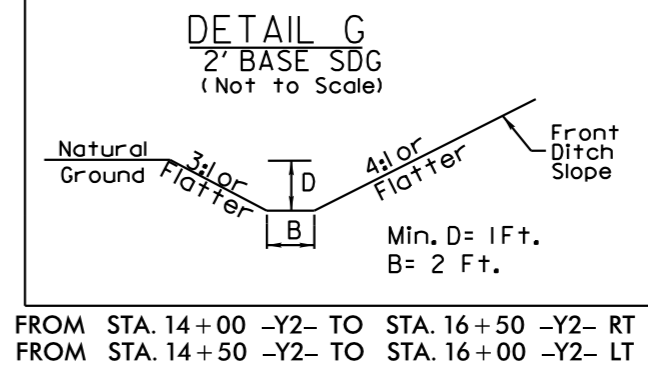
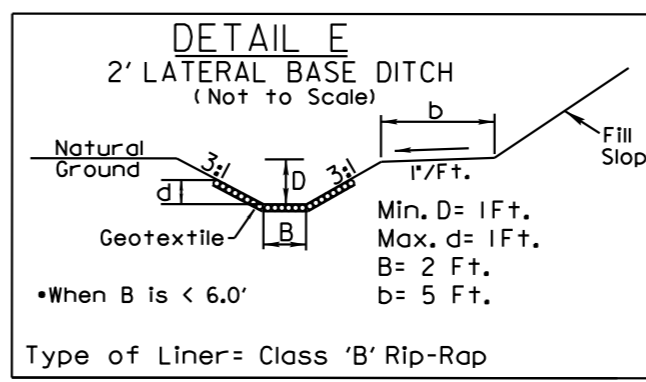
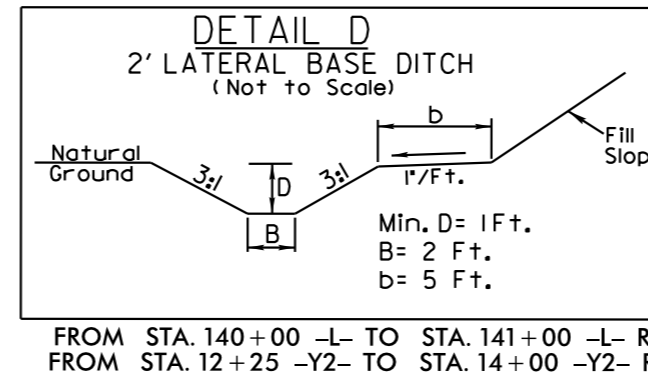
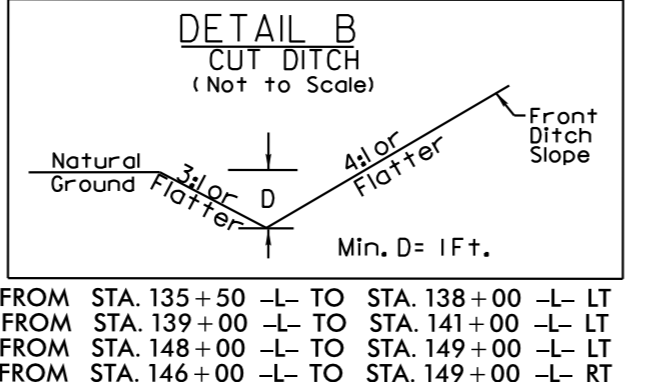
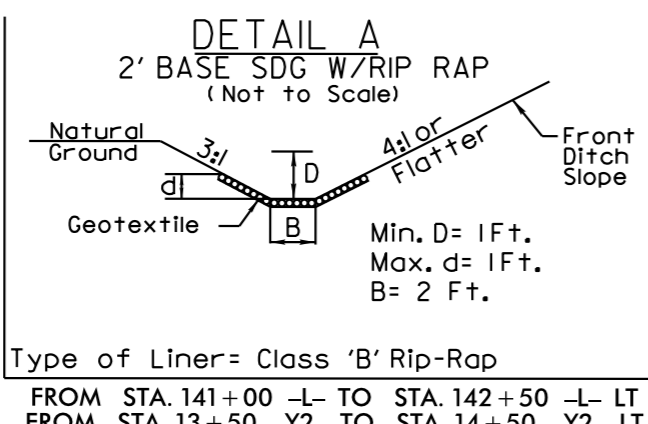
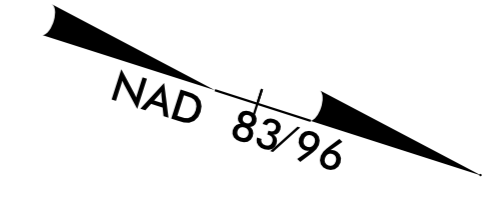
FOR -L- PROFILE, SEE SHEET 20  
FOR -DRI- PROFILE, SEE SHEET 22

FOR CULVERT, SEE SHEET C-1 THROUGH C-5

REVISIONS

5/14/99

22-NOV-2016 10:55 R:\3826\_Rd\psh\_12.dgn  
453.81 (10/11/2016) 11:48:48

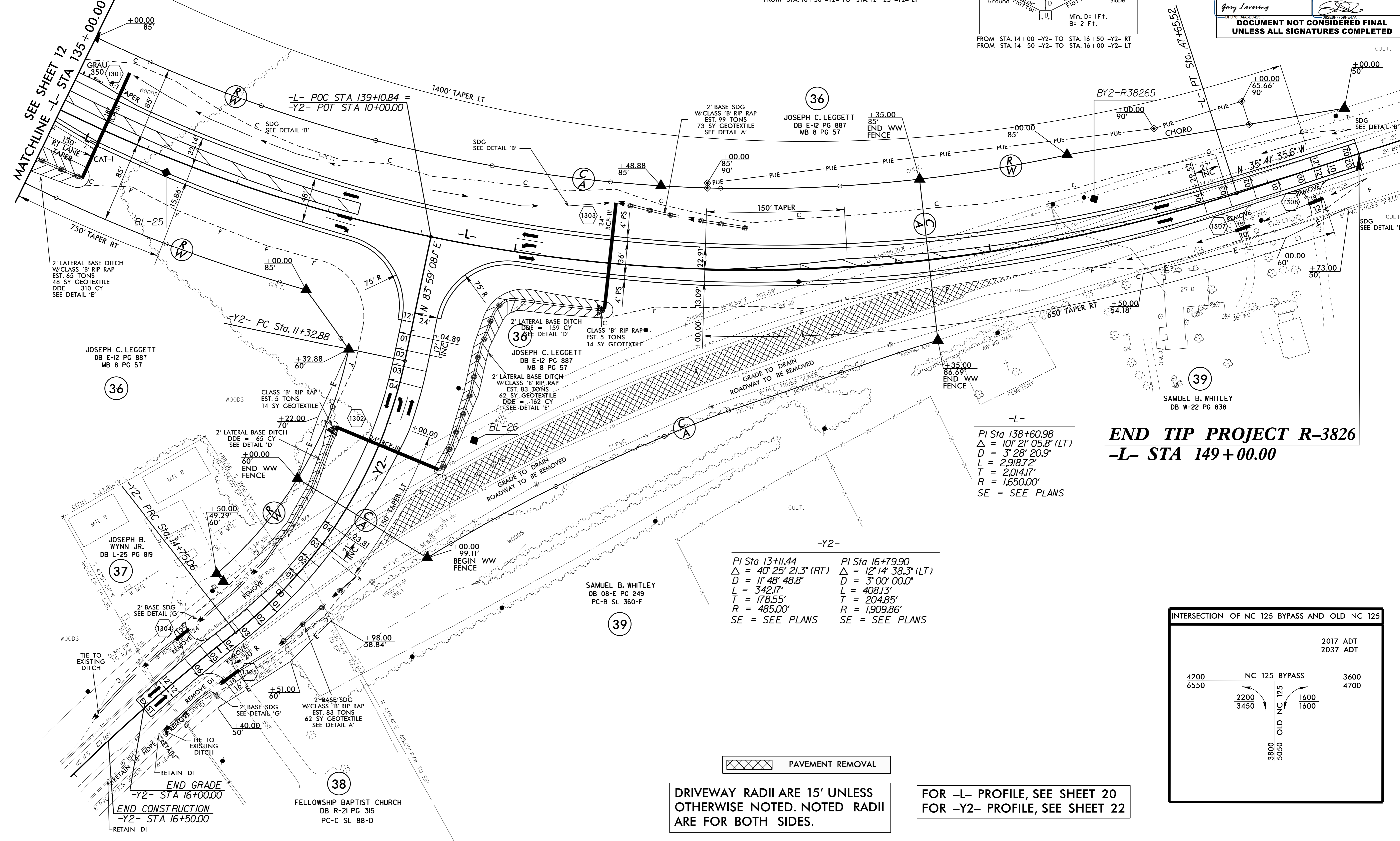


FROM STA. 135+50 -L- TO STA. 138+00 -L- LT  
FROM STA. 139+00 -L- TO STA. 141+00 -L- LT  
FROM STA. 148+00 -L- TO STA. 149+00 -L- LT  
FROM STA. 146+00 -L- TO STA. 149+00 -L- RT

FROM STA. 140+00 -L- TO STA. 141+00 -L- RT  
FROM STA. 12+25 -Y2- TO STA. 14+00 -Y2- RT

FROM STA. 134+00 -L- TO STA. 135+50 -L- RT  
FROM STA. 10+50 -Y2- TO STA. 12+25 -Y2- LT

FROM STA. 14+00 -Y2- TO STA. 16+50 -Y2- RT  
FROM STA. 14+50 -Y2- TO STA. 16+00 -Y2- LT

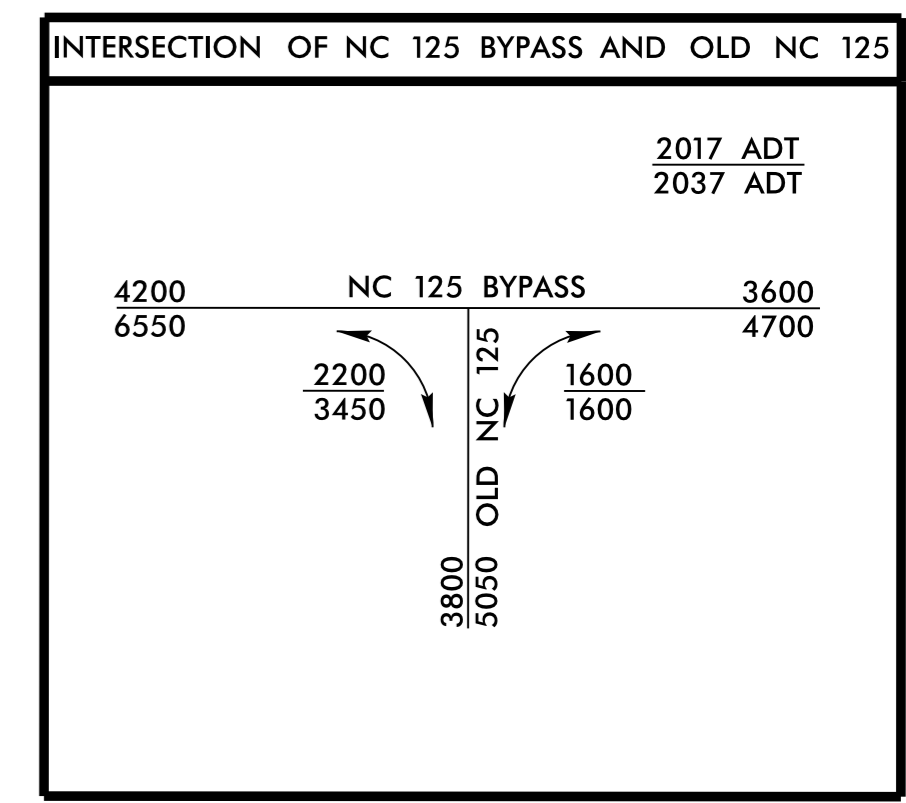


-L-  
PI Sta 138+60.98  
 $\Delta = 101' 21' 05.8''$  (LT)  
D = 3' 28' 20.9"  
L = 2,918.72'  
T = 2,014.17'  
R = 1,650.00'  
SE = SEE PLANS

-Y2-  
PI Sta 13+11.44  
 $\Delta = 40' 25' 21.3''$  (RT)  
D = 1' 48' 48.8"  
L = 342.17'  
T = 178.55'  
R = 485.00'  
SE = SEE PLANS

PI Sta 16+79.90  
 $\Delta = 12' 14' 38.3''$  (LT)  
D = 3' 00' 00.0"  
L = 408.13'  
T = 204.85'  
R = 1,909.86'  
SE = SEE PLANS

**END TIP PROJECT R-3826**  
**-L- STA 149+00.00**



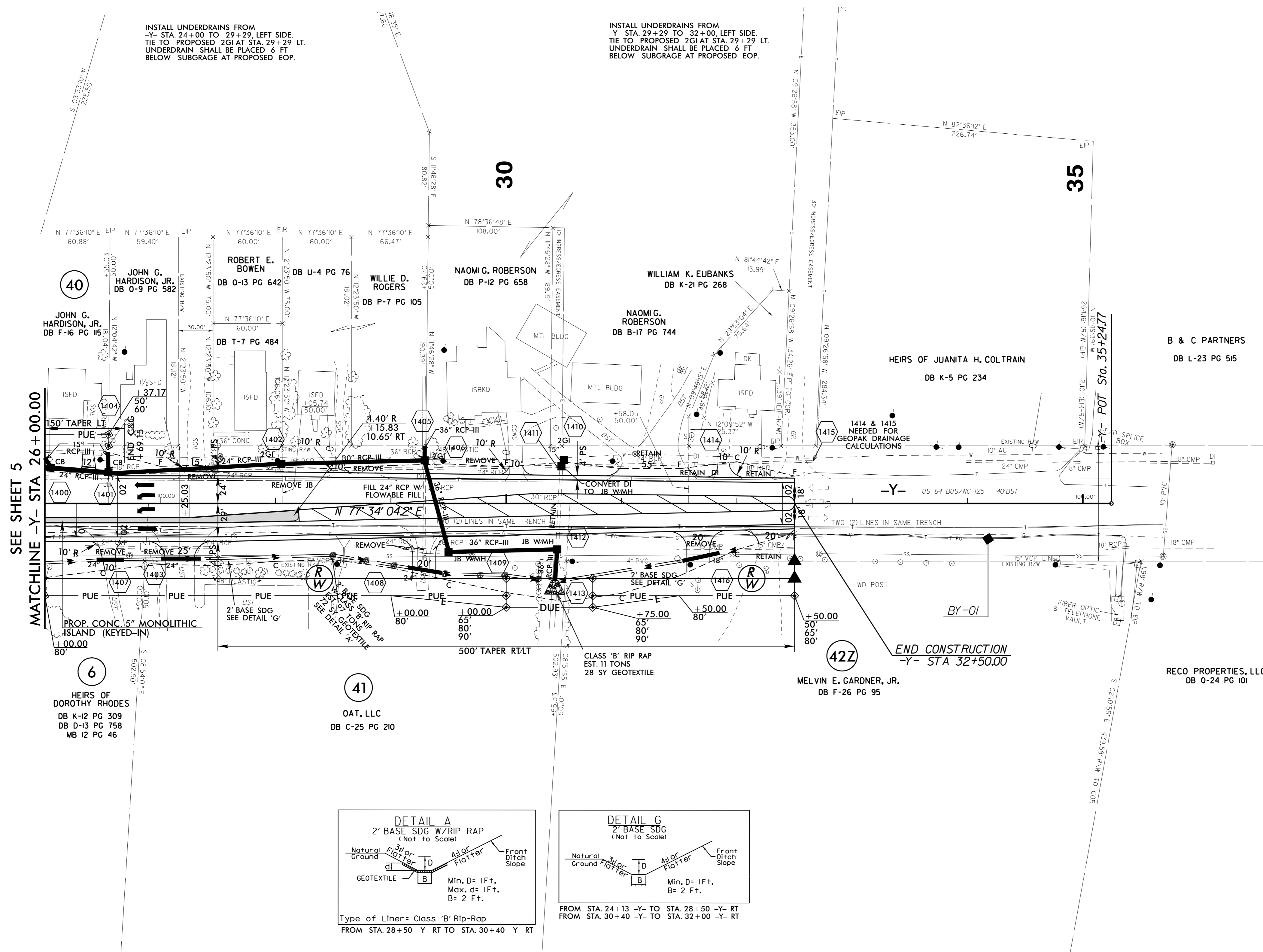
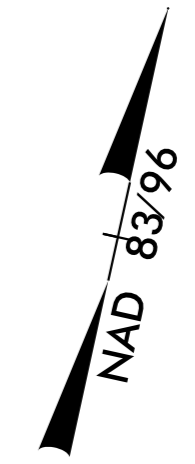
PAVEMENT REMOVAL

DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.

FOR -L- PROFILE, SEE SHEET 20  
FOR -Y2- PROFILE, SEE SHEET 22

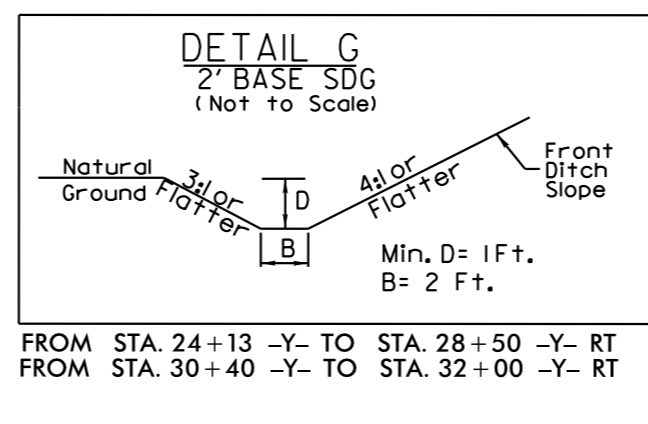
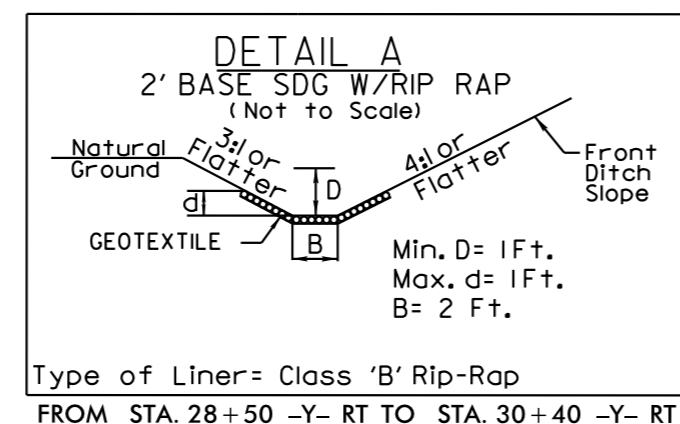
REVISIONS

22-NOV-2016 10:55 R-3826\_Rdwy\_psh\_13.dgn  
S:\3826\CONSTRUCTION\13.dgn



SEE SHEET 5  
MATCHLINE -Y- STA 26+00.00

END CONSTRUCTION  
-Y- STA 32+50.00



DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.

FOR -Y- PROFILE, SEE SHEET 21

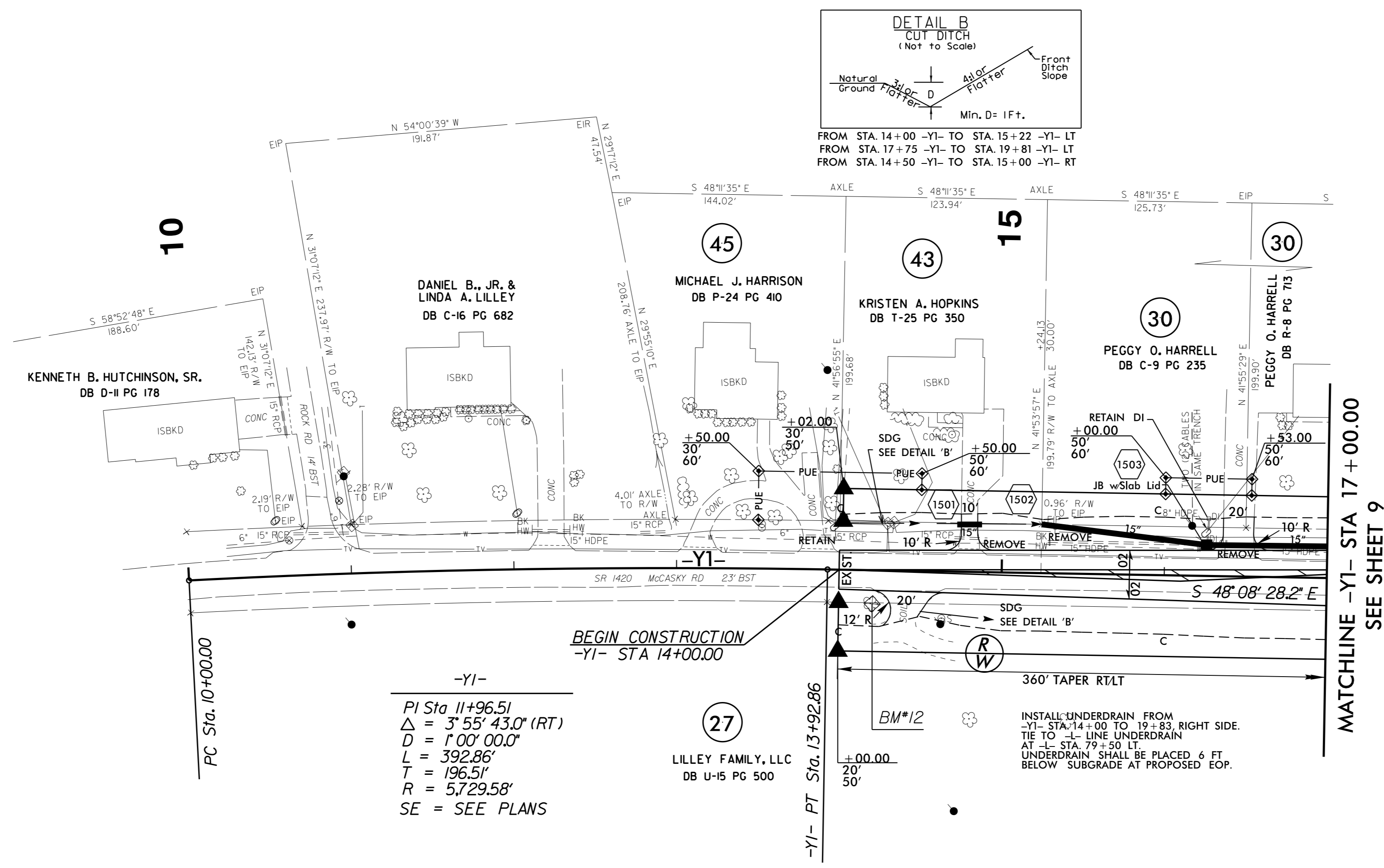
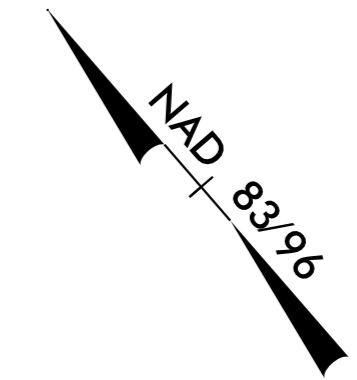
REVISIONS

5/14/99

22-NOV-2016 10:56 R:\3826\_Rdy\_psh\_14.dgn



PROJECT REFERENCE NO.	SHEET NO.
R-3826	15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<i>Gary Lovering</i>	<i>James R. Rice</i>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**BEGIN CONSTRUCTION**  
-YI- STA 14+00.00

-YI-  
 PI Sta 11+96.51  
 $\Delta = 3^{\circ}55'43.0''$  (RT)  
 D = 1'00'00.0"  
 L = 392.86'  
 T = 196.51'  
 R = 5,729.58'  
 SE = SEE PLANS

MATCHLINE -YI- STA 17+00.00  
SEE SHEET 9

DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED. NOTED RADII ARE FOR BOTH SIDES.

FOR -YI- PROFILE, SEE SHEET 21

REVISIONS

5/14/99

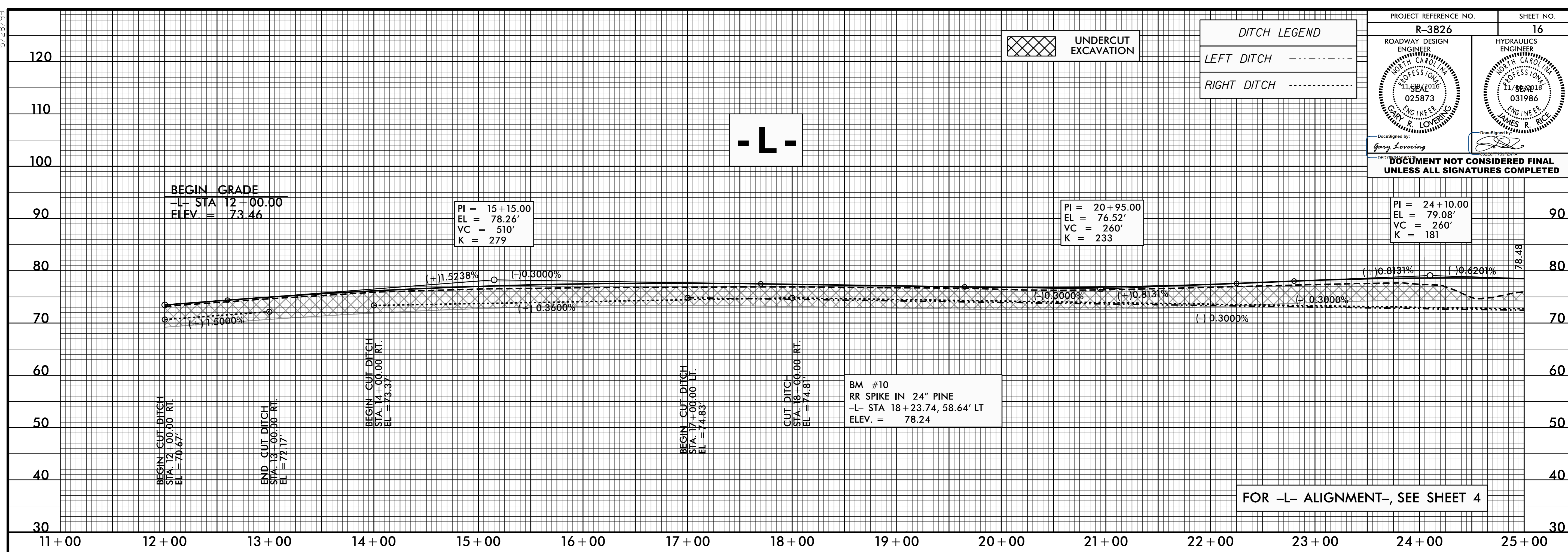
22-NOV-2016 10:56 AM R:\3826\_Rdy\_psh\_15.dgn

5/28/99

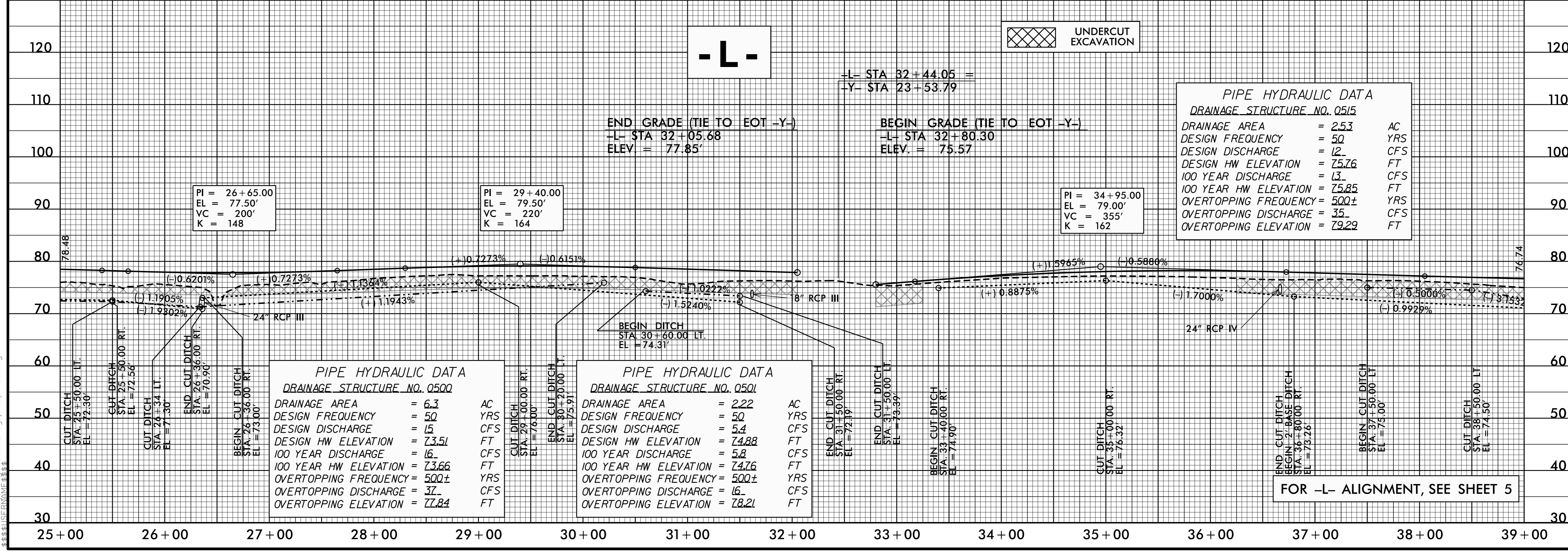
PROJECT REFERENCE NO. <b>R-3826</b>	SHEET NO. <b>16</b>
ROADWAY DESIGN ENGINEER GARY R. LOVERING 025873	HYDRAULICS ENGINEER JAMES R. RICE 031986

DocuSigned by Gary R. Lovering

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



22-NOV-2016 10:56 R-3826-Rdy-pfl-psht-16.dgn



**PIPE HYDRAULIC DATA**  
DRAINAGE STRUCTURE NO. 0515

DRAINAGE AREA	= 253	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 12	CFS
DESIGN HW ELEVATION	= 75.76	FT
100 YEAR DISCHARGE	= 13	CFS
100 YEAR HW ELEVATION	= 75.85	FT
OVERTOPPING FREQUENCY	= 500±	YRS
OVERTOPPING DISCHARGE	= 35	CFS
OVERTOPPING ELEVATION	= 79.29	FT

**PIPE HYDRAULIC DATA**  
DRAINAGE STRUCTURE NO. 0500

DRAINAGE AREA	= 6.3	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 15	CFS
DESIGN HW ELEVATION	= 73.51	FT
100 YEAR DISCHARGE	= 16	CFS
100 YEAR HW ELEVATION	= 73.66	FT
OVERTOPPING FREQUENCY	= 500±	YRS
OVERTOPPING DISCHARGE	= 37	CFS
OVERTOPPING ELEVATION	= 77.84	FT

**PIPE HYDRAULIC DATA**  
DRAINAGE STRUCTURE NO. 0501

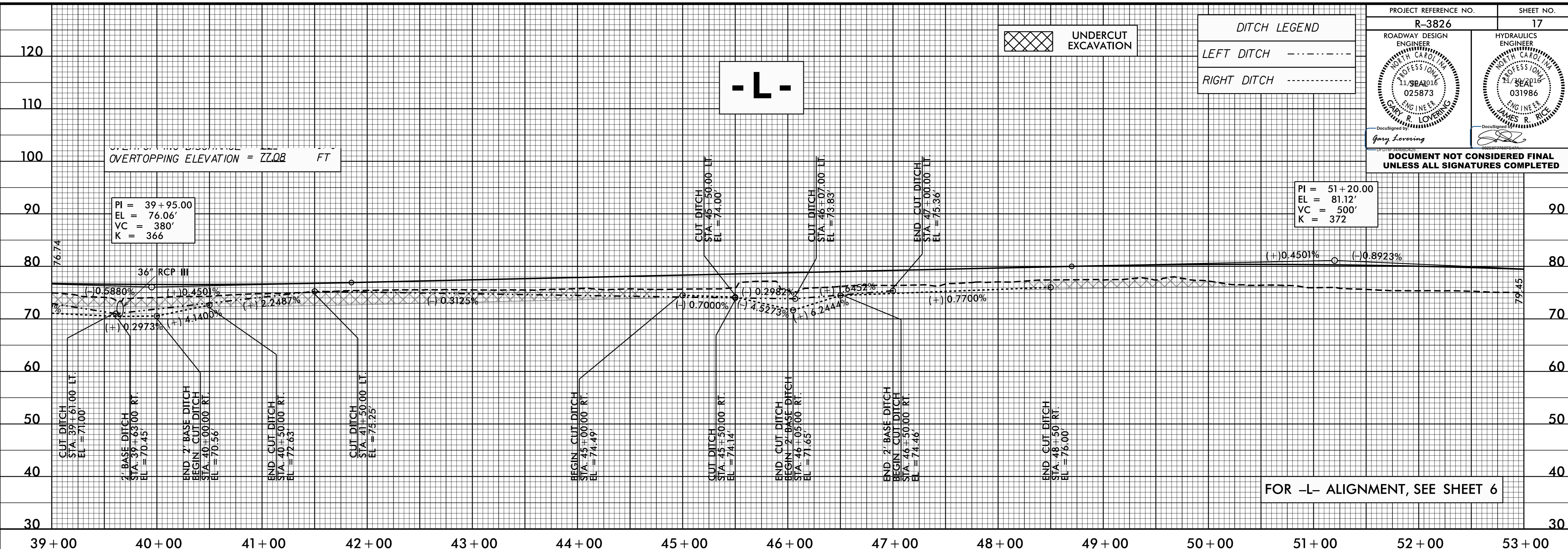
DRAINAGE AREA	= 2.22	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 5.4	CFS
DESIGN HW ELEVATION	= 74.88	FT
100 YEAR DISCHARGE	= 5.8	CFS
100 YEAR HW ELEVATION	= 74.76	FT
OVERTOPPING FREQUENCY	= 500±	YRS
OVERTOPPING DISCHARGE	= 16	CFS
OVERTOPPING ELEVATION	= 78.21	FT

FOR -L- ALIGNMENT, SEE SHEET 5

**DITCH LEGEND**  
 LEFT DITCH - - - - -  
 RIGHT DITCH - - - - -

UNDERCUT EXCAVATION

**-L-**

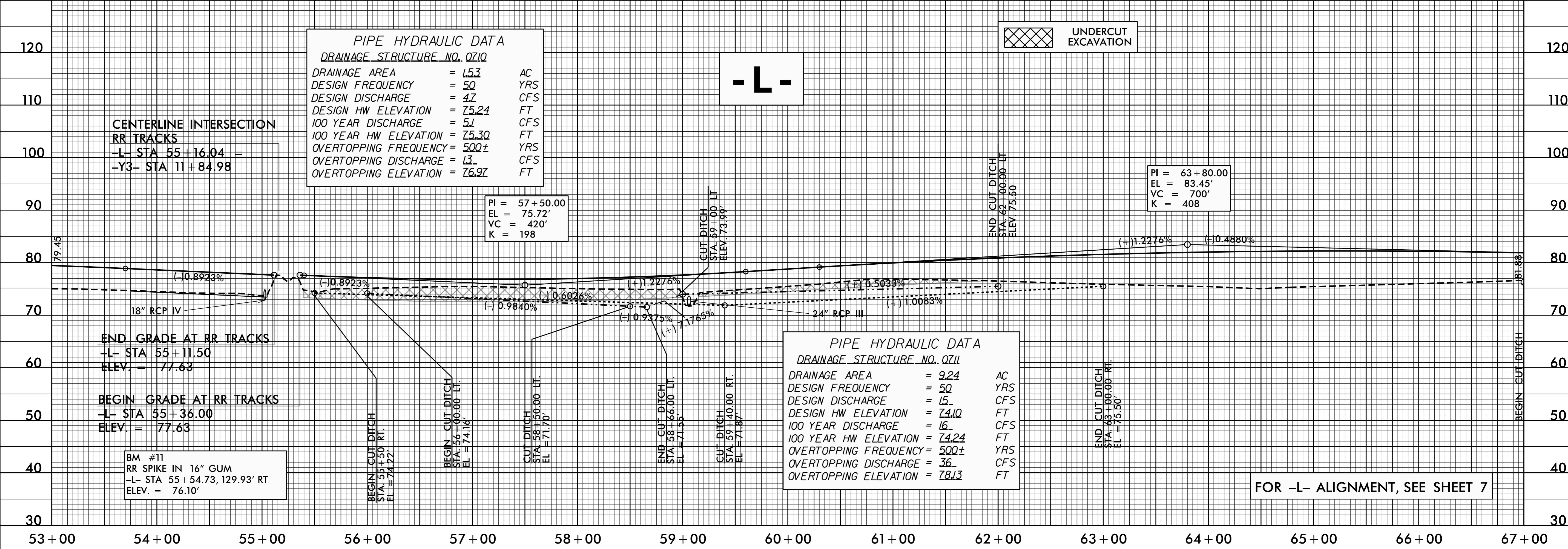


FOR -L- ALIGNMENT, SEE SHEET 6

**PIPE HYDRAULIC DATA**  
 DRAINAGE STRUCTURE NO. 0710  
 DRAINAGE AREA = 153 AC  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN DISCHARGE = 42 CFS  
 DESIGN HW ELEVATION = 75.24 FT  
 100 YEAR DISCHARGE = 51 CFS  
 100 YEAR HW ELEVATION = 75.30 FT  
 OVERTOPPING FREQUENCY = 500± YRS  
 OVERTOPPING DISCHARGE = 13 CFS  
 OVERTOPPING ELEVATION = 76.92 FT

UNDERCUT EXCAVATION

**-L-**



**CENTERLINE INTERSECTION**  
 RR TRACKS  
 -L- STA 55+16.04 =  
 -Y3- STA 11+84.98

**END GRADE AT RR TRACKS**  
 -L- STA 55+11.50  
 ELEV. = 77.63

**BEGIN GRADE AT RR TRACKS**  
 -L- STA 55+36.00  
 ELEV. = 77.63

**BM #11**  
 RR SPIKE IN 16" GUM  
 -L- STA 55+54.73, 129.93' RT  
 ELEV. = 76.10'

**PIPE HYDRAULIC DATA**  
 DRAINAGE STRUCTURE NO. 0711  
 DRAINAGE AREA = 924 AC  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN DISCHARGE = 15 CFS  
 DESIGN HW ELEVATION = 74.10 FT  
 100 YEAR DISCHARGE = 16 CFS  
 100 YEAR HW ELEVATION = 74.24 FT  
 OVERTOPPING FREQUENCY = 500± YRS  
 OVERTOPPING DISCHARGE = 36 CFS  
 OVERTOPPING ELEVATION = 78.13 FT

FOR -L- ALIGNMENT, SEE SHEET 7

5/28/99  
 22-NOV-2016 10:56 03826.Rdy.pfl.psh.17.dgn  
 448307582617

5/28/99

PROJECT REFERENCE NO. <b>R-3826</b>	SHEET NO. <b>18</b>
ROADWAY DESIGN ENGINEER GARY R. LOVERING 025873	HYDRAULICS ENGINEER JAMES R. RICE 031986
<p>DocuSigned by <i>Gary Lovring</i></p> <p>DocuSigned by <i>James R. Rice</i></p>	
<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>	

**PIPE HYDRAULIC DATA**  
DRAINAGE STRUCTURE NO. 0801

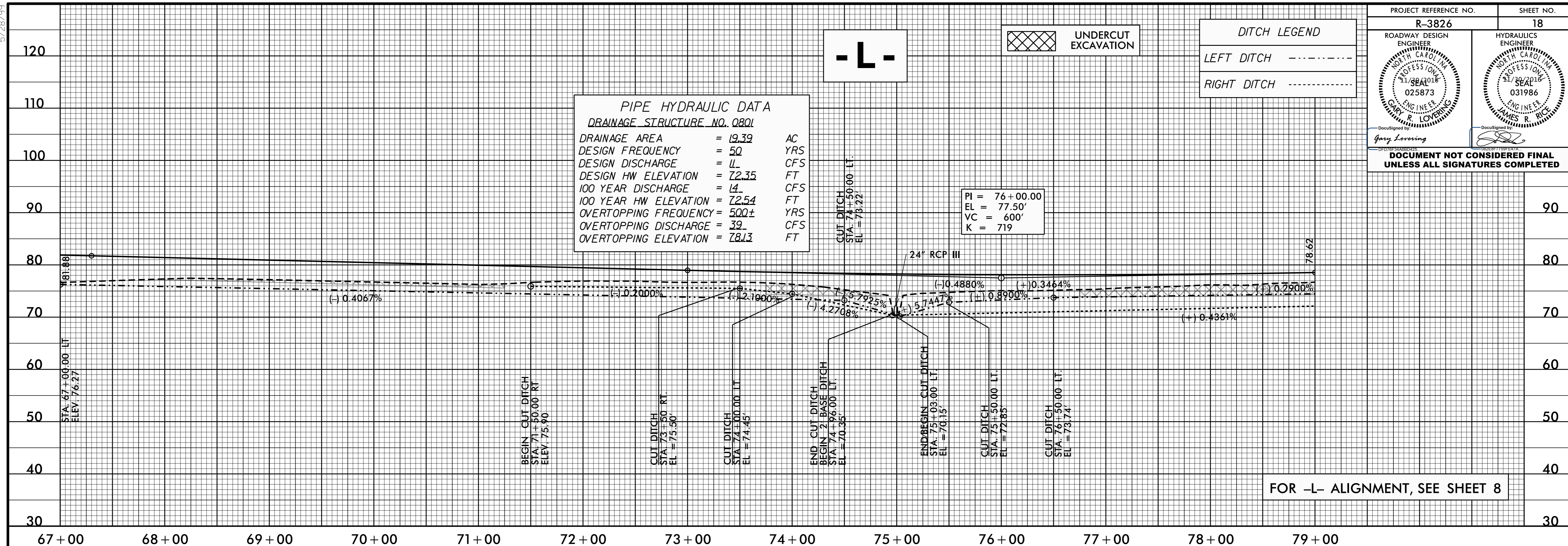
DRAINAGE AREA = 19.39 AC  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN DISCHARGE = 4.1 CFS  
 DESIGN HW ELEVATION = 72.35 FT  
 100 YEAR DISCHARGE = 14.1 CFS  
 100 YEAR HW ELEVATION = 72.54 FT  
 OVERTOPPING FREQUENCY = 500± YRS  
 OVERTOPPING DISCHARGE = 39.1 CFS  
 OVERTOPPING ELEVATION = 78.13 FT

UNDERCUT EXCAVATION

**DITCH LEGEND**

LEFT DITCH - - - - -

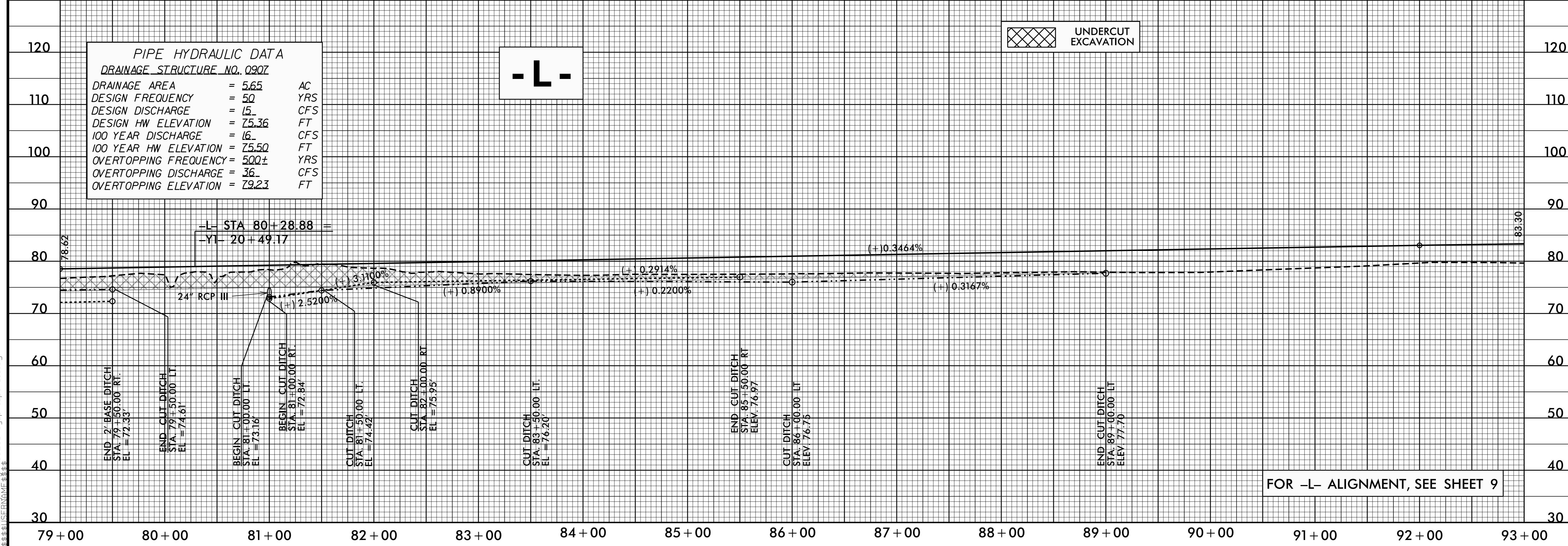
RIGHT DITCH - - - - -



**PIPE HYDRAULIC DATA**  
DRAINAGE STRUCTURE NO. 0902

DRAINAGE AREA = 5.65 AC  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN DISCHARGE = 15.1 CFS  
 DESIGN HW ELEVATION = 75.36 FT  
 100 YEAR DISCHARGE = 16.1 CFS  
 100 YEAR HW ELEVATION = 75.50 FT  
 OVERTOPPING FREQUENCY = 500± YRS  
 OVERTOPPING DISCHARGE = 36.1 CFS  
 OVERTOPPING ELEVATION = 79.23 FT

UNDERCUT EXCAVATION



22-NOV-2016 10:56 R-3826-Rdy-pfl-psht-18.dgn  
 458307525R14MVE 0.848

5/28/99

PROJECT REFERENCE NO. <b>R-3826</b>	SHEET NO. <b>19</b>
ROADWAY DESIGN ENGINEER GARY R. LOVERING 15842016 025873 ENGINEER GARY R. LOVERING	HYDRAULICS ENGINEER JAMES R. REE 11/88/016 031986 ENGINEER JAMES R. REE

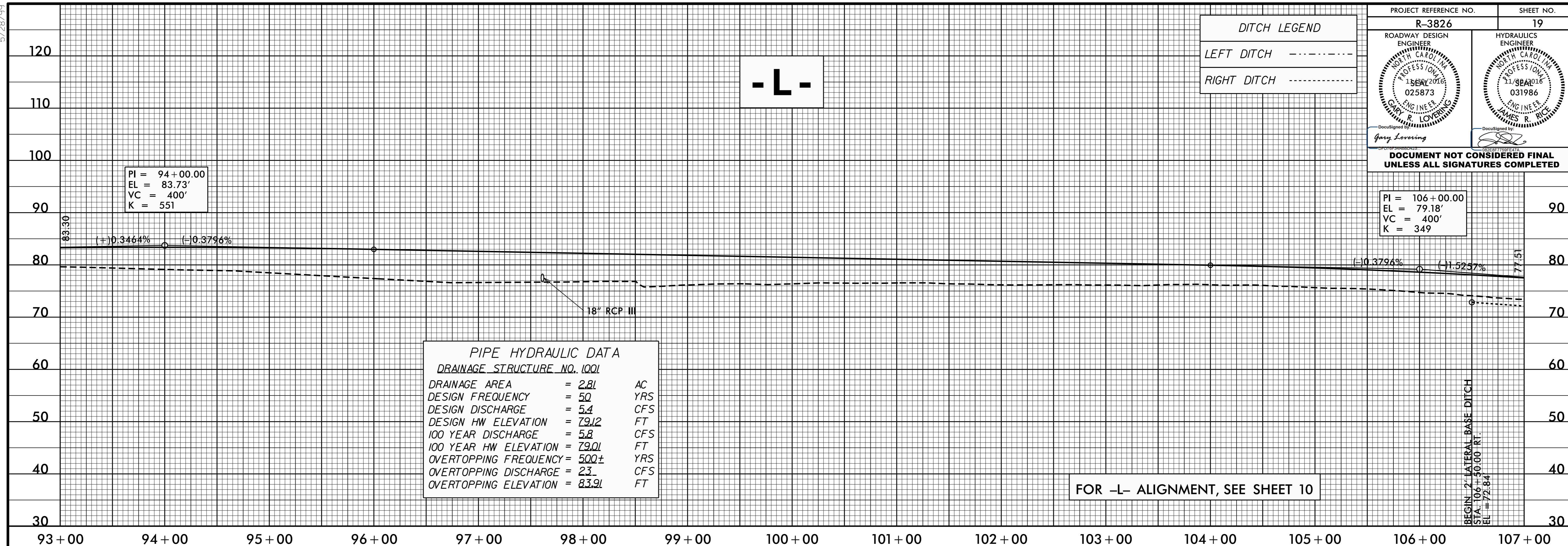
**DITCH LEGEND**

LEFT DITCH - - - - -

RIGHT DITCH - - - - -

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

PI = 106+00.00  
EL = 79.18'  
VC = 400'  
K = 349



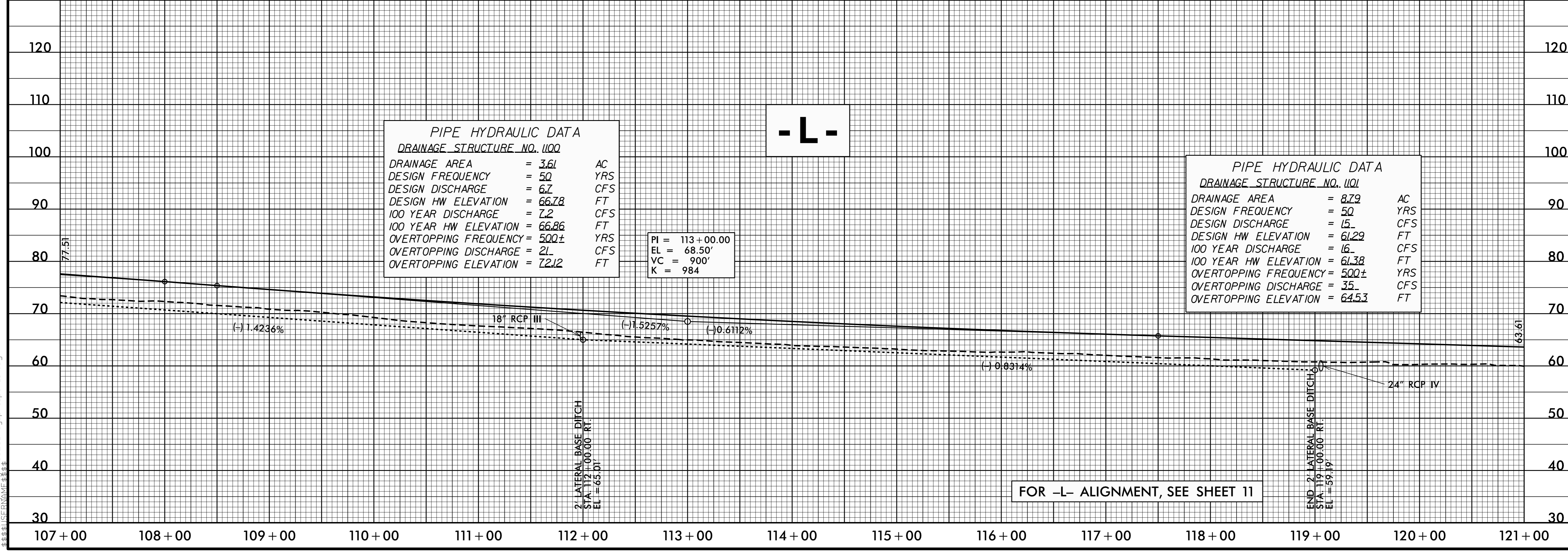
**PIPE HYDRAULIC DATA**  
DRAINAGE STRUCTURE NO. 1001

DRAINAGE AREA	= 2.81	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 5.4	CFS
DESIGN HW ELEVATION	= 79.12	FT
100 YEAR DISCHARGE	= 5.8	CFS
100 YEAR HW ELEVATION	= 79.01	FT
OVERTOPPING FREQUENCY	= 500±	YRS
OVERTOPPING DISCHARGE	= 23	CFS
OVERTOPPING ELEVATION	= 83.91	FT

FOR -L- ALIGNMENT, SEE SHEET 10

BEGIN 2" LATERAL BASE DITCH  
STA. 106+30.00 RT.  
EL = 72.84

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**PIPE HYDRAULIC DATA**  
DRAINAGE STRUCTURE NO. 1100

DRAINAGE AREA	= 3.61	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 6.7	CFS
DESIGN HW ELEVATION	= 66.78	FT
100 YEAR DISCHARGE	= 7.2	CFS
100 YEAR HW ELEVATION	= 66.86	FT
OVERTOPPING FREQUENCY	= 500±	YRS
OVERTOPPING DISCHARGE	= 21	CFS
OVERTOPPING ELEVATION	= 72.12	FT

PI = 113+00.00  
EL = 68.50'  
VC = 900'  
K = 984

**PIPE HYDRAULIC DATA**  
DRAINAGE STRUCTURE NO. 1101

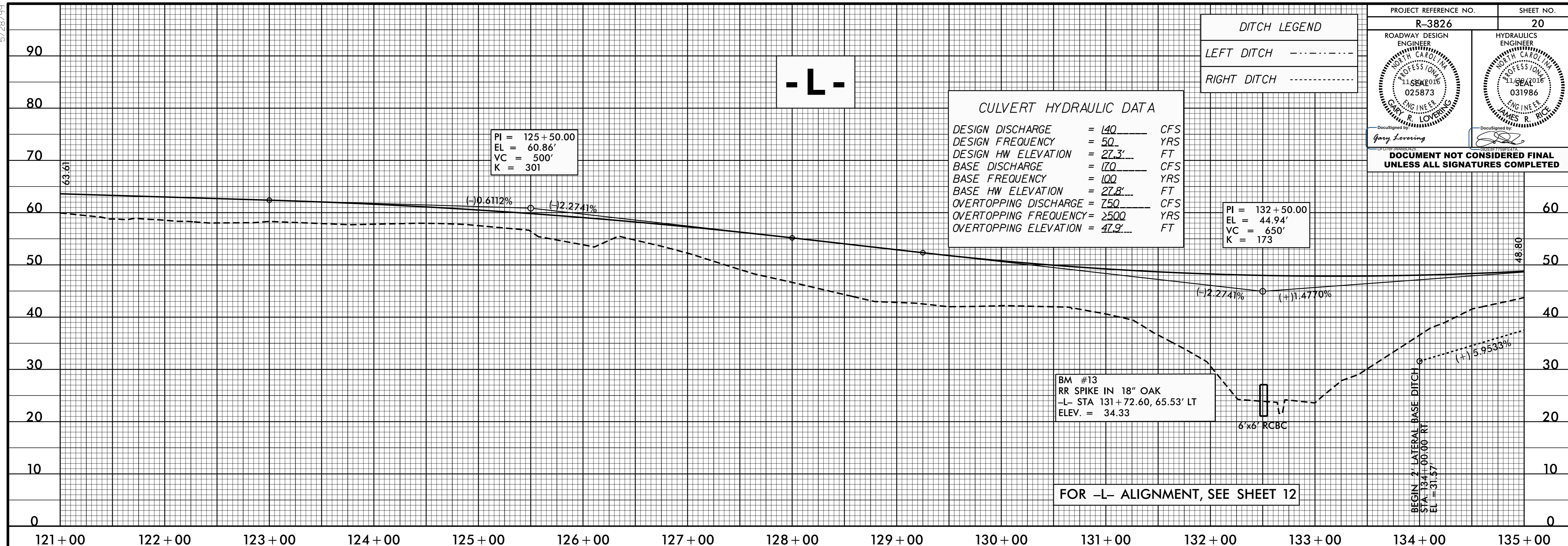
DRAINAGE AREA	= 8.79	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 15	CFS
DESIGN HW ELEVATION	= 61.29	FT
100 YEAR DISCHARGE	= 16	CFS
100 YEAR HW ELEVATION	= 61.38	FT
OVERTOPPING FREQUENCY	= 500±	YRS
OVERTOPPING DISCHARGE	= 35	CFS
OVERTOPPING ELEVATION	= 64.53	FT

FOR -L- ALIGNMENT, SEE SHEET 11

END 2" LATERAL BASE DITCH  
STA. 119+00.00 RT.  
EL = 59.19

**DITCH LEGEND**  
 LEFT DITCH - - - - -  
 RIGHT DITCH - - - - -

**CULVERT HYDRAULIC DATA**  
 DESIGN DISCHARGE = 140 CFS  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN HW ELEVATION = 27.3 FT  
 BASE DISCHARGE = 170 CFS  
 BASE FREQUENCY = 100 YRS  
 BASE HW ELEVATION = 27.8 FT  
 OVERTOPPING DISCHARGE = 750 CFS  
 OVERTOPPING FREQUENCY = 2500 YRS  
 OVERTOPPING ELEVATION = 47.9 FT



FOR -L- ALIGNMENT, SEE SHEET 12

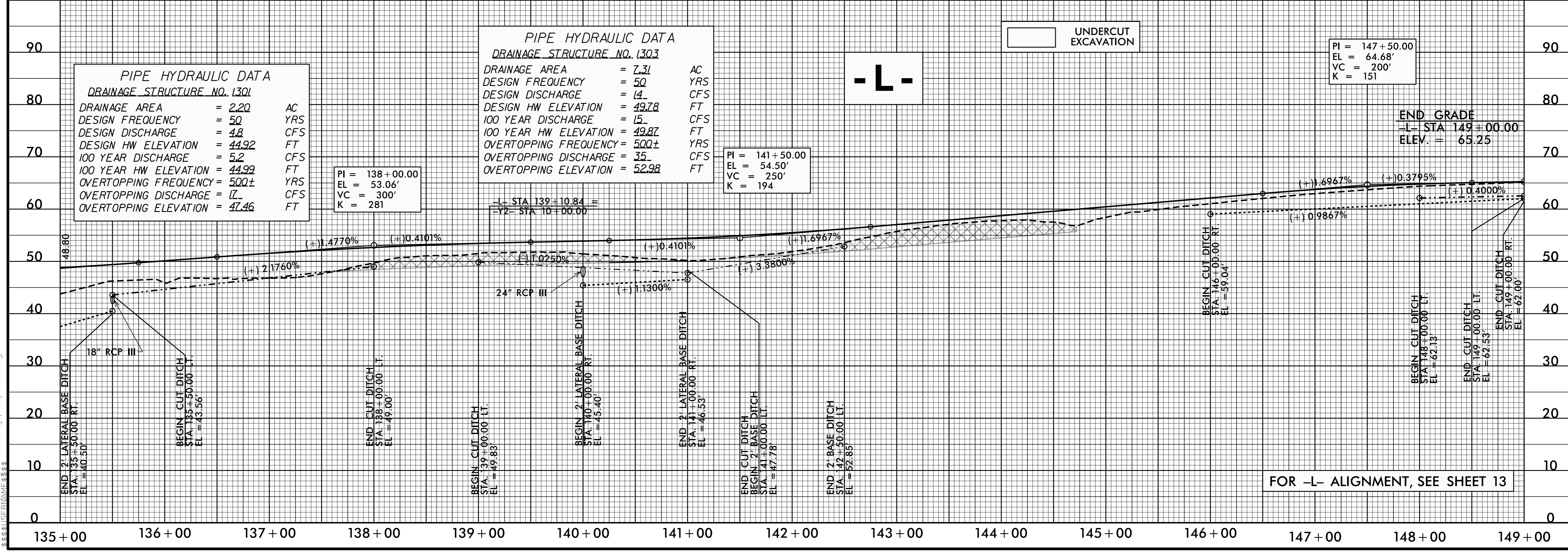
22-NOV-2016 10:56 R-3826-Rdy-pfl-psht-20.dgn

**UNDERCUT EXCAVATION**

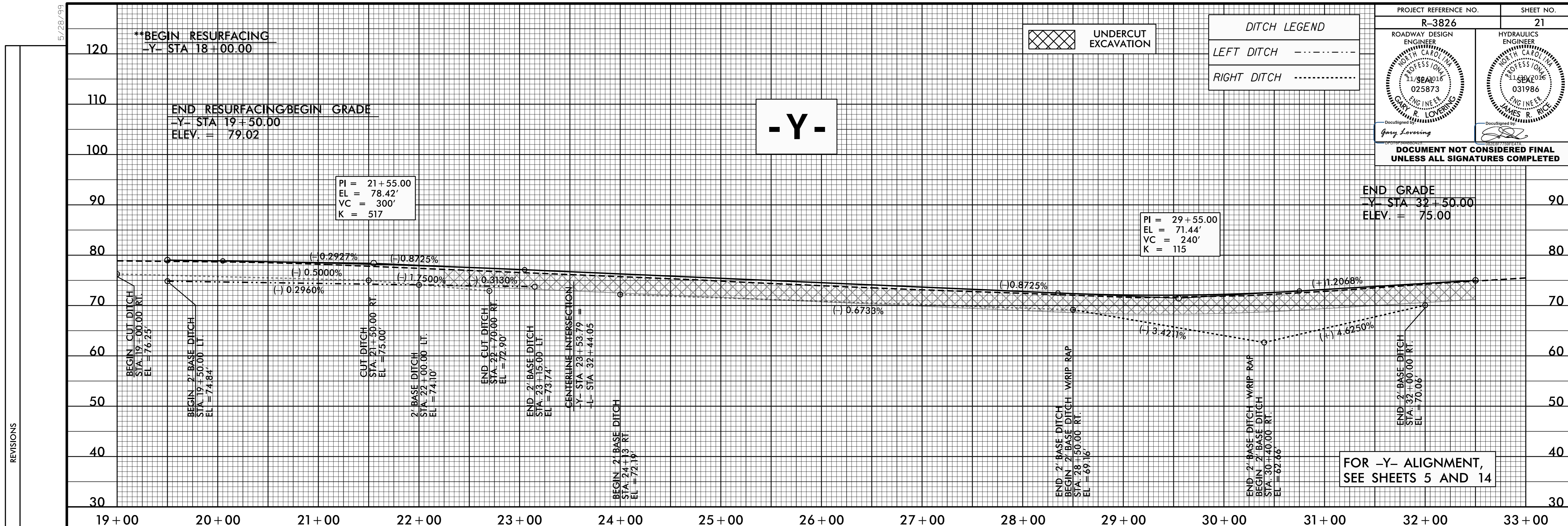
**PIPE HYDRAULIC DATA**  
**DRAINAGE STRUCTURE NO. 1301**  
 DRAINAGE AREA = 2.20 AC  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN DISCHARGE = 4.8 CFS  
 DESIGN HW ELEVATION = 44.92 FT  
 100 YEAR DISCHARGE = 5.2 CFS  
 100 YEAR HW ELEVATION = 44.99 FT  
 OVERTOPPING FREQUENCY = 500± YRS  
 OVERTOPPING DISCHARGE = 17 CFS  
 OVERTOPPING ELEVATION = 47.46 FT

**PIPE HYDRAULIC DATA**  
**DRAINAGE STRUCTURE NO. 1303**  
 DRAINAGE AREA = 7.31 AC  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN DISCHARGE = 14 CFS  
 DESIGN HW ELEVATION = 49.78 FT  
 100 YEAR DISCHARGE = 15 CFS  
 100 YEAR HW ELEVATION = 49.87 FT  
 OVERTOPPING FREQUENCY = 500± YRS  
 OVERTOPPING DISCHARGE = 35 CFS  
 OVERTOPPING ELEVATION = 52.98 FT

PI = 147+50.00  
 EL = 64.68'  
 VC = 200'  
 K = 151



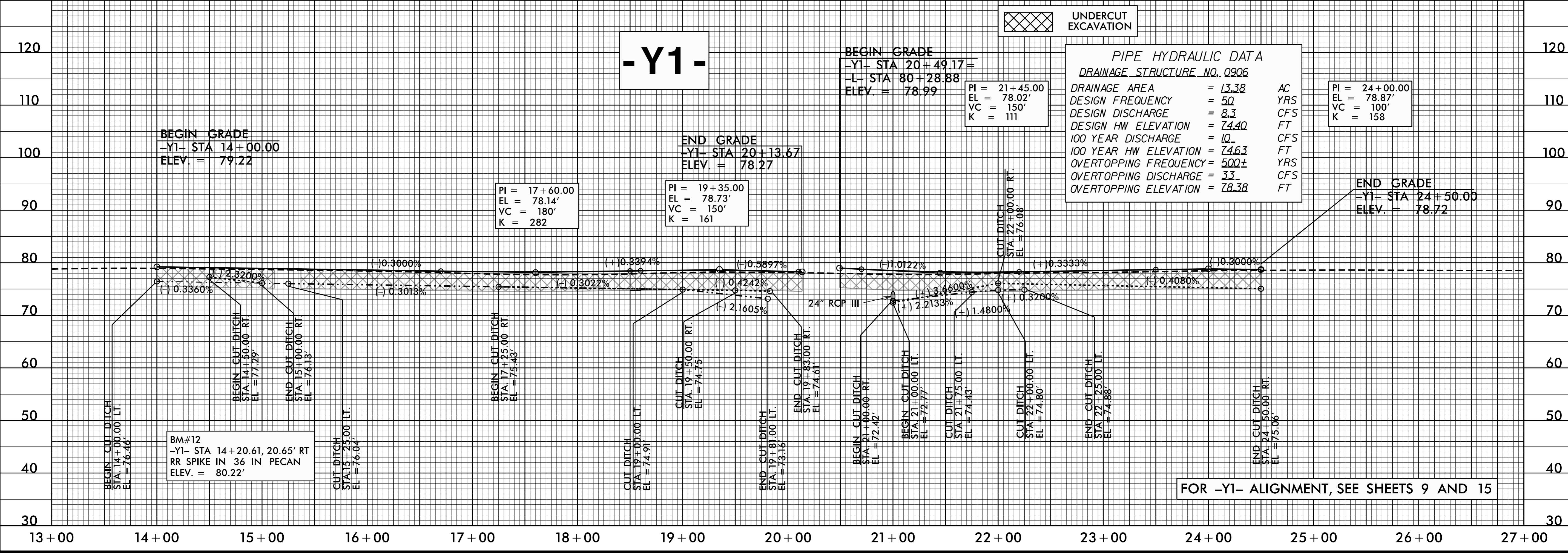
FOR -L- ALIGNMENT, SEE SHEET 13



REVISIONS

5/28/99

22-NOV-2016 10:56 R3826-Rdy-pfl-psht-21.dgn



FOR -Y1- ALIGNMENT, SEE SHEETS 9 AND 15

5/28/99

PROJECT REFERENCE NO. <b>R-3826</b>	SHEET NO. <b>22</b>
ROADWAY DESIGN ENGINEER GARY R. LOVERING 025873	HYDRAULICS ENGINEER JAMES R. RICE 031986
<p style="text-align: center;"><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>	

**DITCH LEGEND**

LEFT DITCH	---
RIGHT DITCH	----

# -Y2-

**BEGIN GRADE**  
-Y2- STA 10+12.45  
ELEV. = 53.95

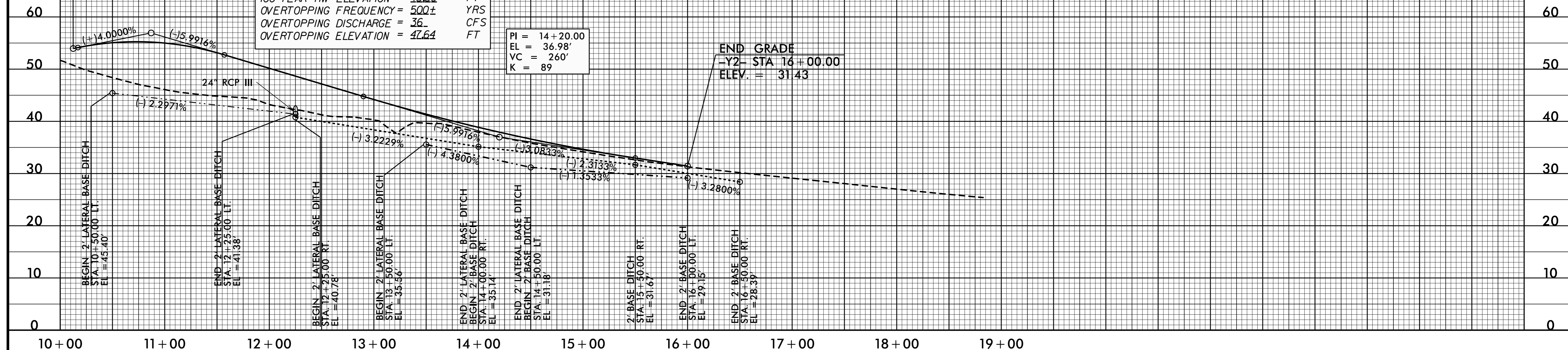
PI = 10+87.00  
EL = 56.93'  
VC = 140'  
K = 14

**PIPE HYDRAULIC DATA**  
DRAINAGE STRUCTURE NO. 1302

DRAINAGE AREA	= 8.90	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 17	CFS
DESIGN HW ELEVATION	= 43.68	FT
100 YEAR DISCHARGE	= 18	CFS
100 YEAR HW ELEVATION	= 43.80	FT
OVERTOPPING FREQUENCY	= 500±	YRS
OVERTOPPING DISCHARGE	= 36	CFS
OVERTOPPING ELEVATION	= 47.64	FT

PI = 14+20.00  
EL = 36.98'  
VC = 260'  
K = 89

**END GRADE**  
-Y2- STA 16+00.00  
ELEV. = 31.43



REVISIONS

RW REVISION (09/21/16) - DRIVEWAY ADDED AT -L- STA. 127+00.00. - JDG

# -DR1-

# -DR2-

**BEGIN GRADE**  
-DR1- STA 10+00.00  
ELEV. = 56.98

PI = 10+10.00  
EL = 56.88'

PI = 10+20.00  
EL = 56.18'

PI = 11+00.00  
EL = 44.98'

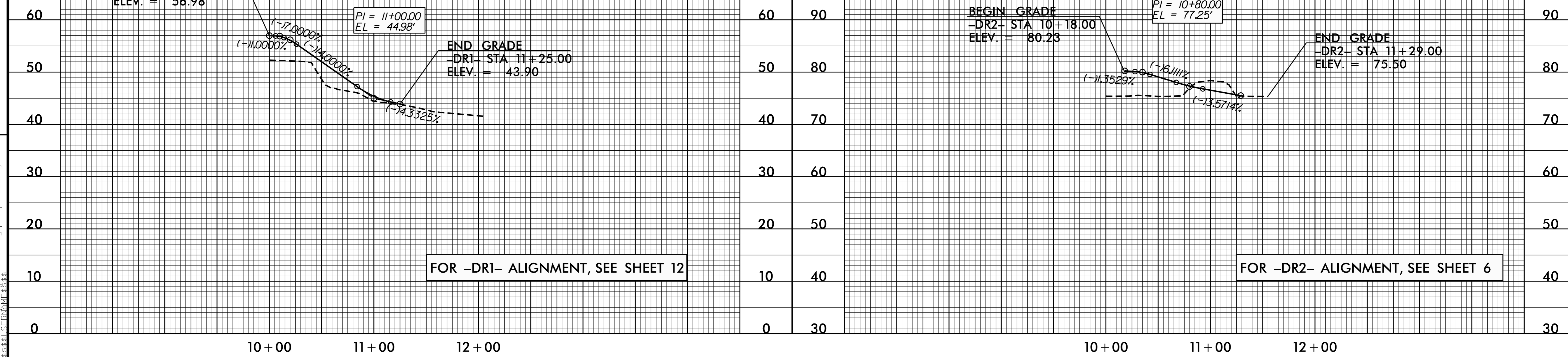
**END GRADE**  
-DR1- STA 11+25.00  
ELEV. = 43.90

**BEGIN GRADE**  
-DR2- STA 10+18.00  
ELEV. = 80.23

PI = 10+35.00  
EL = 80.00'

PI = 10+80.00  
EL = 77.25'

**END GRADE**  
-DR2- STA 11+29.00  
ELEV. = 75.50



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