

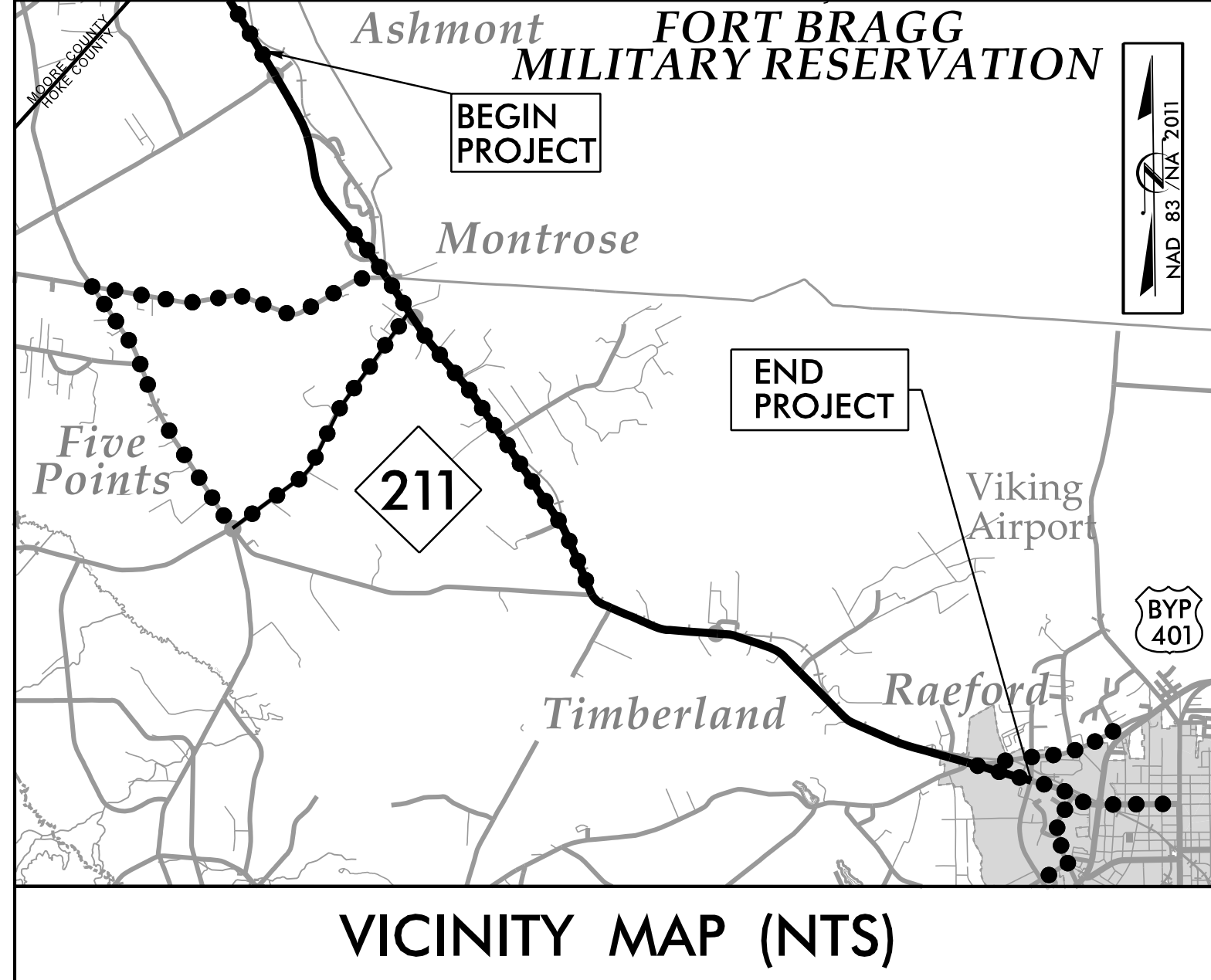
09/08/19

TIP PROJECT: R-5709C

CONTRACT: C204992

9/25/2024  
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See Sheet 1-A1 For Index of Sheets  
See Sheet 1-B For Conventional Symbols



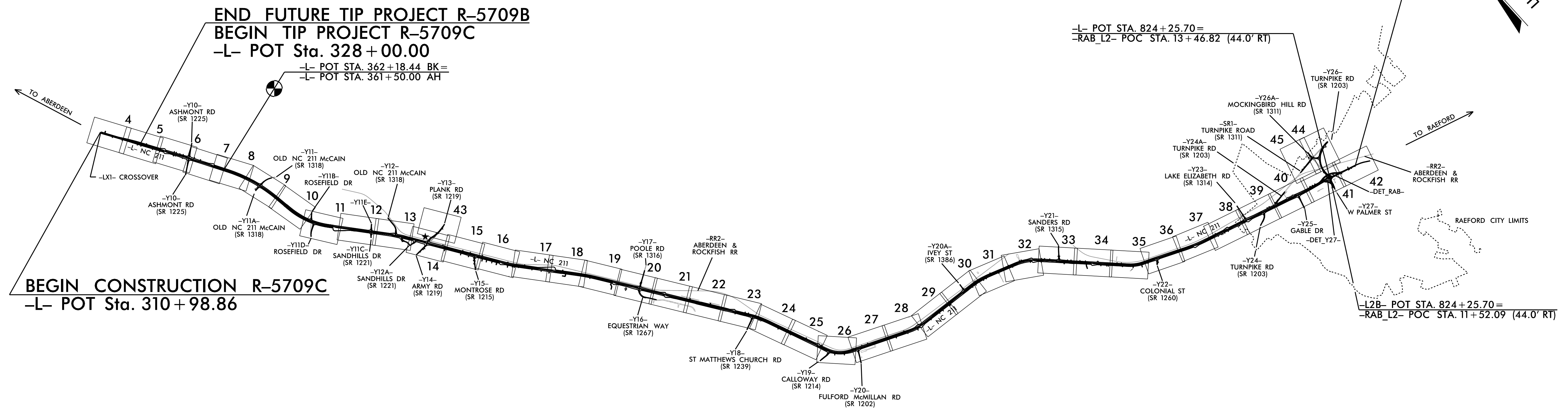
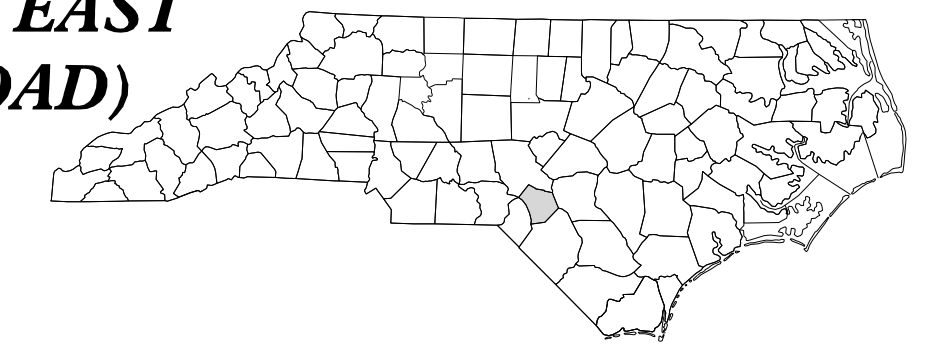
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# HOKE COUNTY

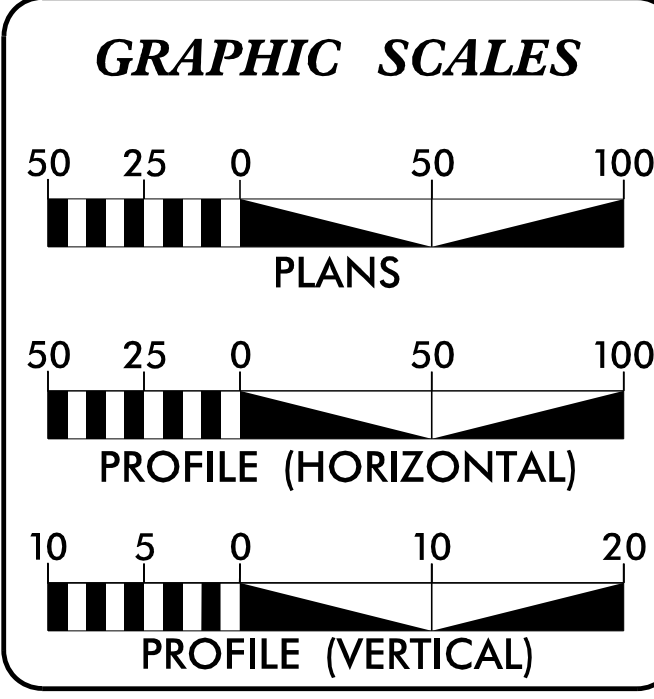
**LOCATION:** NC 211 FROM 0.40 MILES NORTH OF SR 1225 (ASHEMONT ROAD) TO EAST OF SR 1244 (WEST PALMER STREET)/SR 1311 (MOCKINGBIRD HILL ROAD) IN RAEFORD.

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5709C	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50205.1.4		PE	
50205.2.1		ROW	
50205.2.2		UTILITIES	
50205.3.4		CONSTRUCTION	



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



**DESIGN DATA**

ADT 2024 =	16,400
ADT 2044 =	23,400
K =	9%
D =	60%
T =	21% *
V =	60 MPH
* TTST =	16% DUAL 5%
FUNC CLASS =	MINOR ARTERIAL
REGIONAL TIER	

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT R-5709C.....	9.621 miles
LENGTH STRUCTURE TIP PROJECT R-5709C.....	0.000 miles
TOTAL LENGTH OF PROJECT R-5709C.....	9.621 miles

**NCDOT CONTACT**  
Terry E. Farr, PE  
PROJECT MANAGER

PLANS PREPARED BY:  
**RK&K**  
8601 Six Forks Road, Forum 1 Suite 700  
RALEIGH, NORTH CAROLINA 27615-3960  
NC LICENSE NO. F-0112  
1-888-521-4455 OR 919-878-9560

FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
2024 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
APRIL 23, 2021

**LETTING DATE:**  
JANUARY 21, 2025

Brandon McInnis, PE  
PROJECT ENGINEER

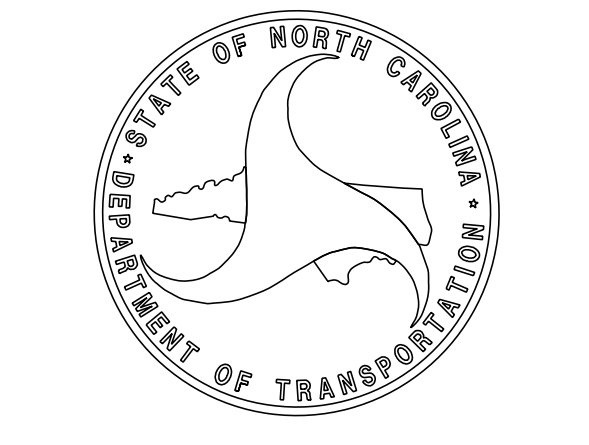
Mary Mays Yahl, PE  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

Courtland Hoffman  
SIGNATURE  
P.E. 10/14/2024

**ROADWAY DESIGN ENGINEER**

Mary Mays Yahl  
SIGNATURE  
P.E. 10/15/2024





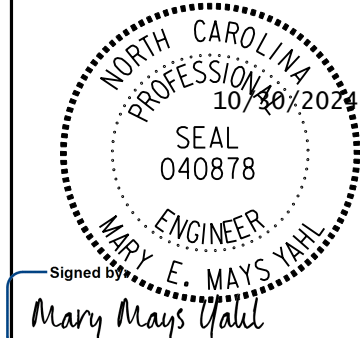
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# INDEX of SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A-1	INDEX OF SHEETS & GENERAL NOTES
1A-2	LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-15	PAVEMENT SCHEDULE & TYPICAL SECTIONS
2B-1 THRU 2B-2	ROADWAY DETOUR SHEETS
2B-3 THRU 2B-11	INTERSECTION DETAILS
2B-12 THRU 2B-17	RAILROAD CLOSURE & CONSTRUCTION DETAILS
2B-18 THRU 2B-22	TEMPORARY DRAINAGE DETAILS
2C-1	CURB RAMP DETAILS
2C-2	CONCRETE MEDIAN DROP INLET EXTRA DEPTH
2C-3	TRAFFIC BEARING GRATED DROP INLET
2C-4	METHOD OF PIPE INSTALLATION - FLEXIBLE
2C-5	METHOD OF PIPE INSTALLATION - RIGID
2C-6	CONCRETE SIDEWALK
2C-7	GUARDRAIL PLACEMENT
2D-1 THRU 2D-3	DRAINAGE DETAILS
2G-1 THRU 2G-4	GEOTECHNICAL DETAILS
3B-1 THRU 3B-5	SUMMARY OF EARTHWORK, GUARDRAIL SUMMARY, TEMPORARY GUARDRAIL, PAVEMENT REMOVAL SUMMARY, PAVEMENT BREAKING SUMMARY, CURB AND GUTTER SUMMARIES, BREAKING OF EXISTING ASPHALT, AND WILDLIFE FENCE
3D-1 THRU 3D-24	DRAINAGE SUMMARIES
3G-1	GEOTECHNICAL SUMMARIES
3P-1 THRU 3P-3	PARCEL INDEX SHEETS
4 THRU 45	PLAN SHEETS
46 THRU 74	PROFILE SHEETS
RW01 THRU RW73	SURVEY CONTROL SHEETS
TMP-1 THRU TMP-109	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-39	PAVEMENT MARKING PLANS
ECS-1	ELECTRICAL CONDUIT PLANS
EC-1 THRU EC-45	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-44	SIGNING PLANS
SIG 1.0 THRU SIG 9.1	SIGNAL PLANS
SIG.M1A THRU SIG.M9	METAL POLE PLANS
UC-1 THRU UC-73	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-43	UTILITY BY OTHERS PLANS
X-1	CROSS SECTION INDEX
X-1A THRU X-1N	CROSS SECTION SUMMARIES
X-2 THRU X-295	CROSS SECTIONS

# GENERAL NOTES

- GENERAL NOTES: 2024 SPECIFICATIONS  
EFFECTIVE: 01-16-2024  
REVISED:
- 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.
- SUPERELEVATION:  
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 AND 225.05 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 AND 560.02.
- 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.
- BERM DITCHES:  
BERM DITCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 240.01 AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- SUBSURFACE DRAINS:  
SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.
- DRIVEWAYS:  
DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT 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 NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".
- UTILITIES:  
UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY (DIST), PIEDMONT NATURAL GAS, WINDSTREAM, BRIGHTSPEED, CHARTER/SPECTRUM - CATV, HOKE CO. PUBLIC WORKS (W/S), TOWN OF RAEFORD (W/S)  
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.
- CURB RAMPS  
CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.

PROJECT REFERENCE NO.	SHEET NO.
R-5709C	1A-1
ROADWAY DESIGN ENGINEER  SEAL 040878 ENGINEER MARY E. MAYS, YMLL Signed by Mary Mays Yall	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

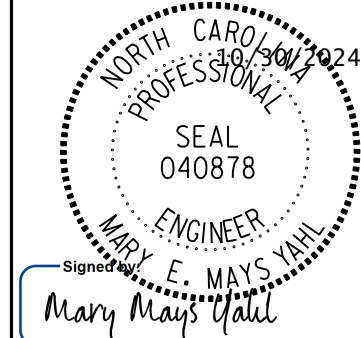


P: (919) 878-9560  
8601 Six Forks Road, Forum 1, Suite 700  
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# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS **STANDARD DRAWINGS**

PROJECT REFERENCE NO. <i>R-5709C</i>	SHEET NO. <i>1A-2</i>
ROADWAY DESIGN ENGINEER	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

EFF. 01-16-2024  
REV.

### 2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit -N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE	840.00	Concrete Base Pad for Drainage Structures
<b>DIVISION 2 - EARTHWORK</b>			
225.01	Guide for Grading Subgrade - Interstate and Freeway	840.01	Brick Catch Basin - 12" thru 54" Pipe
225.02	Guide for Grading Subgrade - Secondary and Local	840.02	Concrete Catch Basin - 12" thru 54" Pipe
225.04	Method of Obtaining Superelevation - Two Lane Pavement	840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
225.05	Method of Obtaining Superelevation - Divided Highways	840.14	Concrete Drop Inlet - 12" thru 30" Pipe
225.06	Method of Grading Sight Distance at Intersections	840.15	Brick Drop Inlet - 12" thru 30" Pipe
240.01	Guide for Berm Ditch Construction	840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
<b>DIVISION 3 - PIPE CULVERTS</b>			
300.01	Method of Pipe Installation	840.17	Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
310.10	Driveway Pipe Construction	840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
<b>DIVISION 5 - SUBGRADE, BASES AND SHOULDERS</b>			
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I	840.19	Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
560.02	Method of Shoulder Construction - High Side of Superelevated Curve - Method II	840.20	Frames and Wide Slot Flat Grates
<b>DIVISION 6 - ASPHALT BASES AND PAVEMENTS</b>			
654.01	Pavement Repairs	840.22	Frames and Wide Slot Sag Grates
<b>DIVISION 8 - INCIDENTALS</b>			
806.01	Concrete Right-of-Way Marker	840.24	Frames and Narrow Slot Sag Grates
806.02	Granite Right-of-Way Marker	840.25	Anchorage for Frames - Brick or Concrete or Precast
815.02	Subsurface Drain	840.26	Brick Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew	840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
838.11	Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew	840.28	Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
838.21	Reinforced Concrete Endwall - for Single 54" Pipe 90 Skew	840.29	Frames and Narrow Slot Flat Grates
838.22	Reinforced Concrete Endwall - for Double and Triple 54" Pipes 90 Skew	840.31	Concrete Junction Box - 12" thru 66" Pipe
838.27	Reinforced Concrete Endwall - for Single 60" Pipe 90 Skew	840.32	Brick Junction Box - 12" thru 66" Pipe
838.33	Reinforced Concrete Endwall - for Single 66" Pipe 90 Skew	840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
838.39	Reinforced Concrete Endwall - for Single 72" Pipe 90 Skew	840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
838.45	Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40	840.36	Traffic Bearing Grated Drop Inlet - for Steel (840.37) Double Frame and Grates
838.51	Reinforced Brick Endwall - for Single 54" Pipe 90 Skew	840.37	Steel Grate and Frame
838.52	Reinforced Brick Endwall - for Double and Triple 54" Pipe 90 Skew	840.41	Spring Box - Concrete or Brick
838.57	Reinforced Brick Endwall - for Single 60" Pipe 90 Skew	840.45	Precast Drainage Structure
838.63	Reinforced Brick Endwall - for Single 66" Pipe 90 Skew	840.46	Traffic Bearing Precast Drainage Structure
838.69	Reinforced Brick Endwall - for Single 72" Pipe 90 Skew	840.54	Manhole Frame and Cover
838.75	Notes for Reinforced Brick Endwall - Std. Dwg 838.51 thru 838.70	840.66	Drainage Structure Steps
838.80	Precast Endwalls - 12" thru 72" Pipe 90 Skew	840.72	Pipe Collar
		846.01	Concrete Curb, Gutter and Curb & Gutter
		846.02	Drop Inlet Installation in Expressway Gutter
		846.04	Drop Inlet Installation in Shoulder Berm Gutter
		848.01	Concrete Sidewalk
		848.02	Driveway Turnout - Radius Type
		848.04	Street Turnout
		848.06	Curb Ramp
		850.01	Concrete Paved Ditches
		850.10	Guide for Berm Drainage Outlet - 15" and 18" Pipe
		850.11	Guide for Berm Drainage Outlet - 24" and 30" Pipe
		852.01	Concrete Islands
		852.02	Monolithic Concrete Mountable Island Median for Use with Rigid or Flexible Pavement
		852.04	Method for Placement of Drop Inlets in Grassed Median - Using 1'-6" Curb and Gutter
		852.05	Median Curb for Catch Basin - for Use with 1'-6" Curb and Gutter
		852.06	Method for Placement of Drop Inlets in Concrete Islands
		852.10	Median Construction - with Curb and Gutter
		862.01	Guardrail Placement
		862.02	Guardrail Installation
		866.07	Wildlife Fence - with Chain Link
		876.01	Rip Rap in Channels and Ditches
		876.02	Guide for Rip Rap at Pipe Outlets
		876.03	Drainage Ditches with Class 'A' Rip Rap
		876.04	Drainage Ditches with Class 'B' Rip Rap



# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

## CONVENTIONAL PLAN SHEET SYMBOLS

*Note: Not to Scale*

### BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin (EIP)	○
Computed Property Corner	×
Existing Concrete 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---
Existing Historic Property Boundary	---HPB---
Known Contamination Area: Soil	☠-s-☠-s-
Potential Contamination Area: Soil	☠-s-☠-s-
Known Contamination Area: Water	☠-w-☠-w-
Potential Contamination Area: Water	☠-w-☠-w-
Contaminated Site: Known or Potential	☠ ?

### 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	← FLOW
False Sump	▽

### RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

### RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Secondary Horiz and Vert Control Point	◆
Vertical Benchmark	⊕
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	▲
Proposed Right of Way Monument (Concrete)	⊕
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	◆
Existing C/A Monument	△
Proposed C/A Monument (Rebar and Cap)	▲
Proposed C/A Monument (Concrete)	⊕
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Existing Control of Access Line	-----
Proposed Control of Access Line	-----
Proposed ROW and CA Line	-----
Existing Easement Line	-----
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

### 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	-----
Single Tree	○
Single Shrub	○
Hedge	-----

### VEGETATION:

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:

\* SUE - Subsurface Utility Engineering  
LOS - Level of Service - A,B,C or D (Accuracy)

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 Test Hole (SUE - LOS A)*	⊕
U/G Power Line (SUE - LOS B)*	-----
U/G Power Line (SUE - LOS C)*	-----
U/G Power Line (SUE - LOS D)*	-----

### TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	⊕
U/G Telephone Test Hole (SUE - LOS A)*	⊕
U/G Telephone Cable (SUE - LOS B)*	-----
U/G Telephone Cable (SUE - LOS C)*	-----
U/G Telephone Cable (SUE - LOS D)*	-----
U/G Telephone Conduit (SUE - LOS B)*	-----
U/G Telephone Conduit (SUE - LOS C)*	-----
U/G Telephone Conduit (SUE - LOS D)*	-----
U/G Fiber Optics Cable (SUE - LOS B)*	-----
U/G Fiber Optics Cable (SUE - LOS C)*	-----
U/G Fiber Optics Cable (SUE - LOS D)*	-----

### WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊕
Water Hydrant	⊕
U/G Water Line Test Hole (SUE - LOS A)*	⊕
U/G Water Line (SUE - LOS B)*	-----
U/G Water Line (SUE - LOS C)*	-----
U/G Water Line (SUE - LOS D)*	-----
Above Ground Water Line	A/G Water

### TV:

TV Pedestal	⊕
TV Tower	⊕
U/G TV Cable Hand Hole	⊕
U/G TV Test Hole (SUE - LOS A)*	⊕
U/G TV Cable (SUE - LOS B)*	-----
U/G TV Cable (SUE - LOS C)*	-----
U/G TV Cable (SUE - LOS D)*	-----
U/G Fiber Optic Cable (SUE - LOS B)*	-----
U/G Fiber Optic Cable (SUE - LOS C)*	-----
U/G Fiber Optic Cable (SUE - LOS D)*	-----

### GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line Test Hole (SUE - LOS A)*	⊕
U/G Gas Line (SUE - LOS B)*	-----
U/G Gas Line (SUE - LOS C)*	-----
U/G Gas Line (SUE - LOS D)*	-----
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 Force Main Line Test Hole (SUE - LOS A)*	⊕
SS Force Main Line (SUE - LOS B)*	-----
SS Force Main Line (SUE - LOS C)*	-----
SS Force Main Line (SUE - LOS D)*	-----

### MISCELLANEOUS:

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




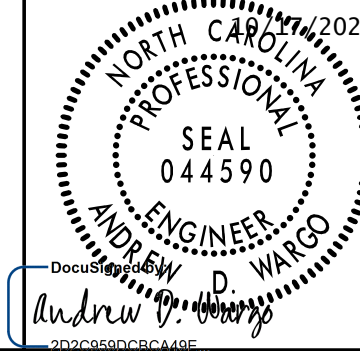
8/17/99

# FINAL PAVEMENT SCHEDULE

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

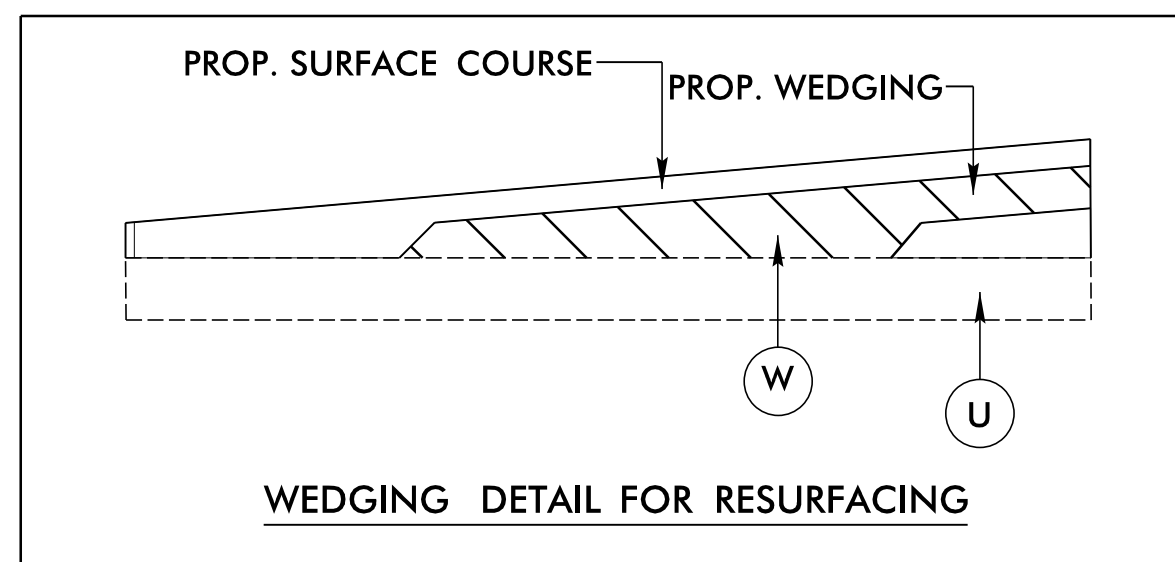
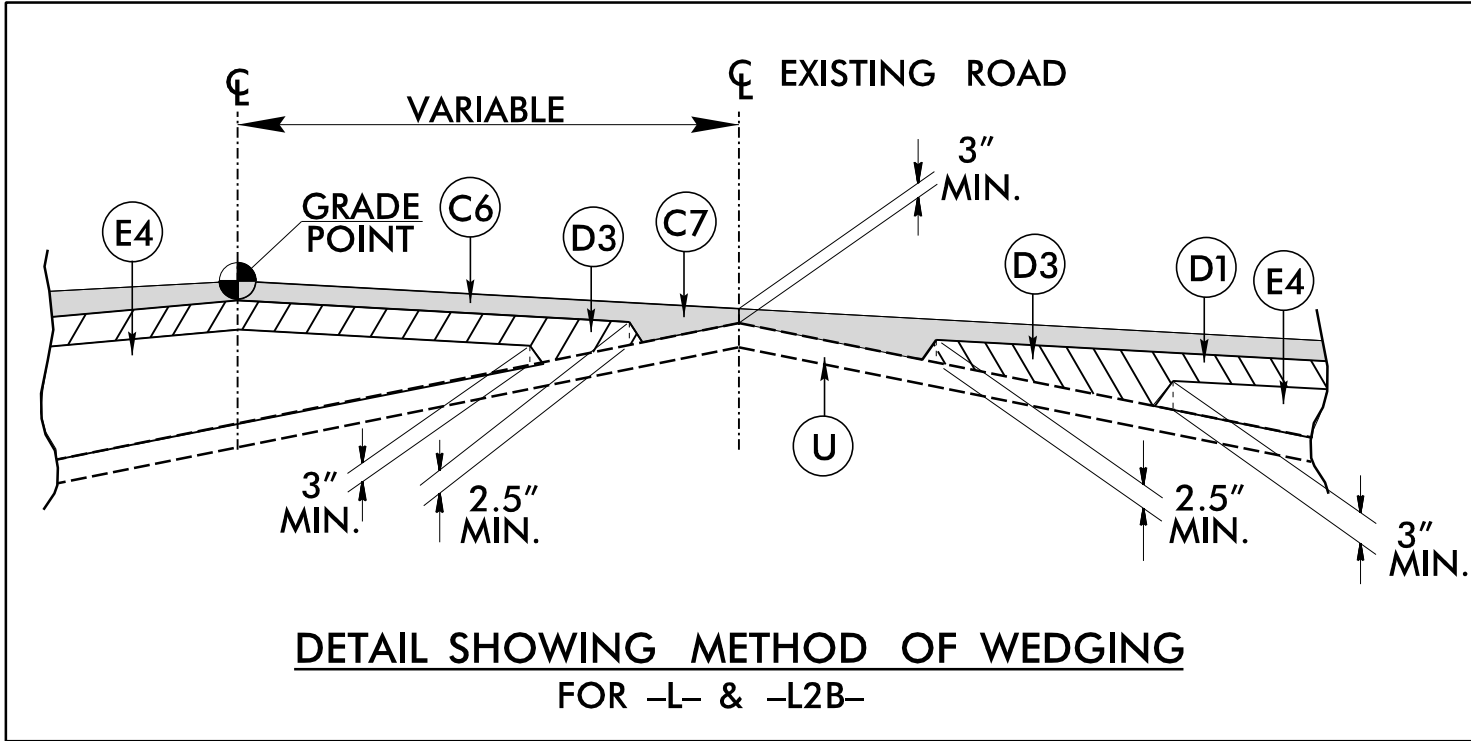
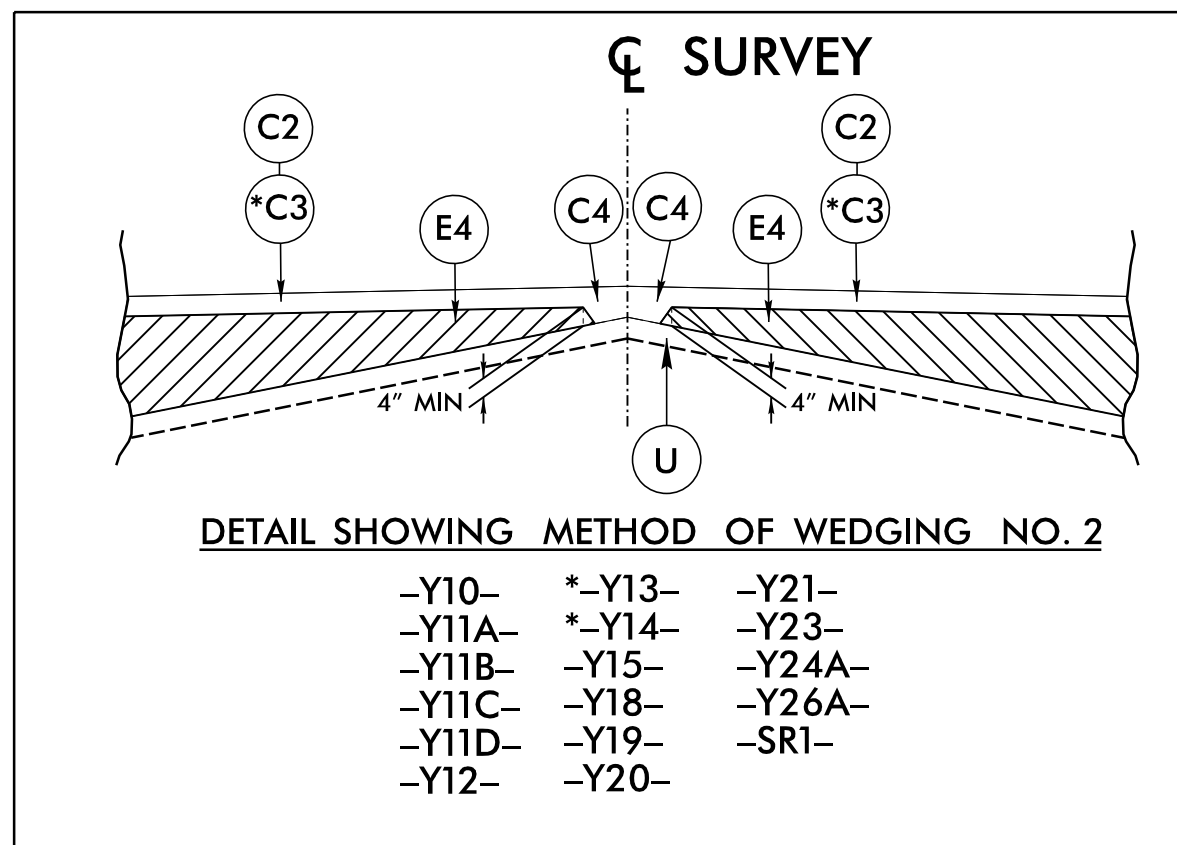
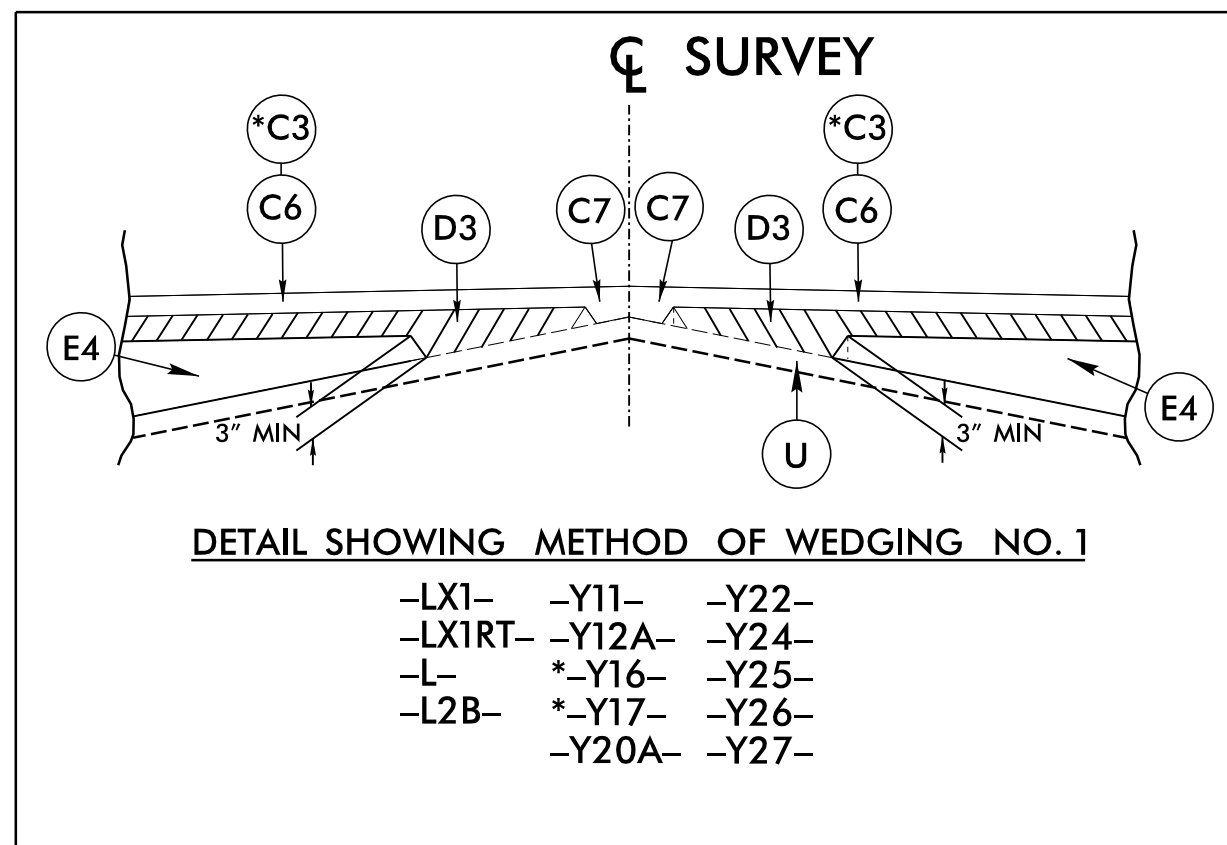
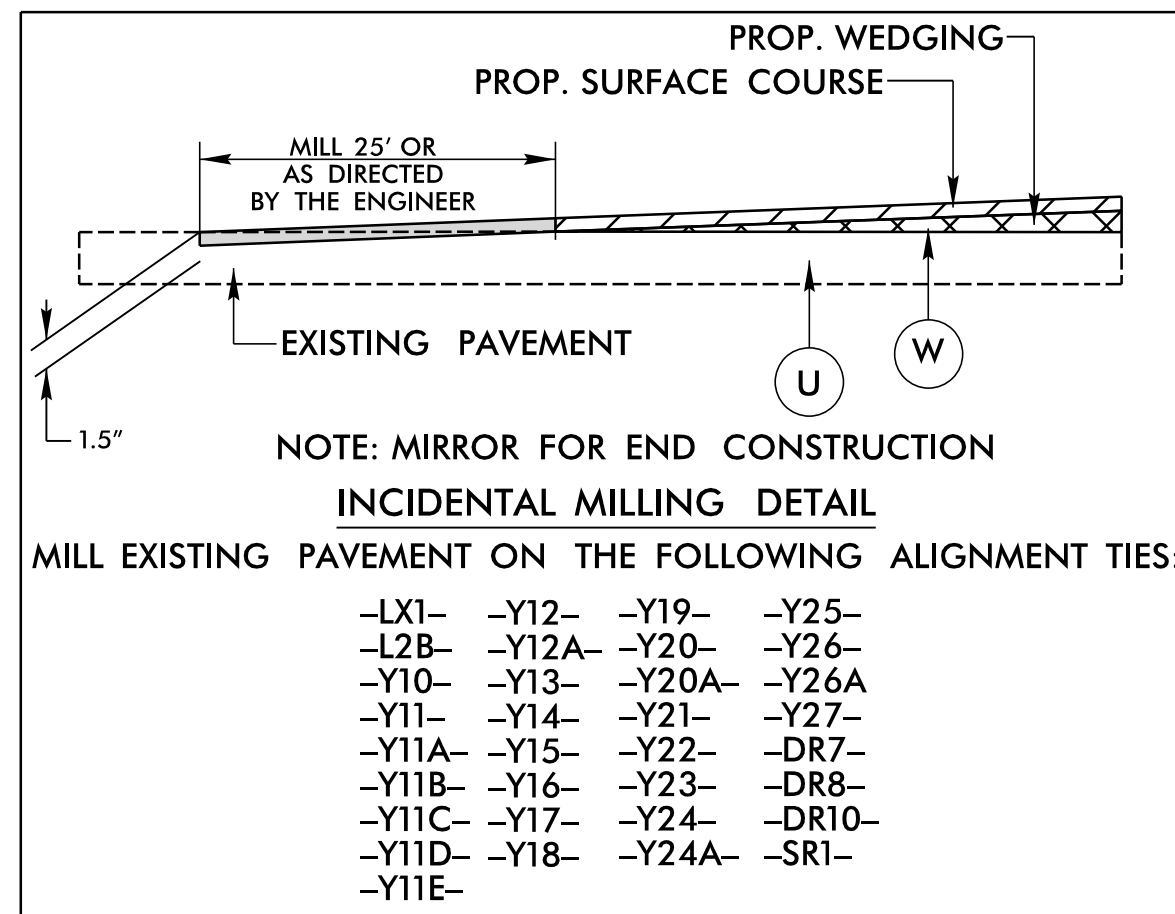
PROJECT REFERENCE NO. **R-5709C** SHEET NO. **2A-1**

RW SHEET NO.

ROADWAY DESIGN ENGINEER 	PAVEMENT ENGINEER 
--	--

A1	12" JOINTED CONCRETE TRUCK APRON.	E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.		
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS.	E3	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.		
C2	PROP. APPROX. 2.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	E4	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, 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 5.5" IN DEPTH.	R5	EXPRESSWAY GUTTER
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	J1	PROP. 8" AGGREGATE BASE COURSE	R6	4" CONCRETE COVER
C4	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.	K	PROP. 12" CLASS IV SUBGRADE STABILIZATION	R9	SHOULDER BERM GUTTER
C6	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	N	GEOTEXTILE FOR SUBGRADE STABILIZATION	SM	SELECT GRANULAR MATERIAL, CLASS III
C7	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	P	PRIME COAT	S	4" CONCRETE SIDEWALK
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R1	2'-6" CONCRETE CURB AND GUTTER	T	EARTH MATERIAL
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R2	1'-6" CONCRETE CURB AND GUTTER	U	EXISTING PAVEMENT
D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.	R4	5" MONOLITHIC CONCRETE ISLAND (KEYED IN)	W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAILS)

NOTE: ALL OUTSIDE PAVED SHOULDERS ALONG -L- WILL BE REMOVED DUE TO VARIABILITY IN SHOULDER DEPTH ALONG THE PROJECT.



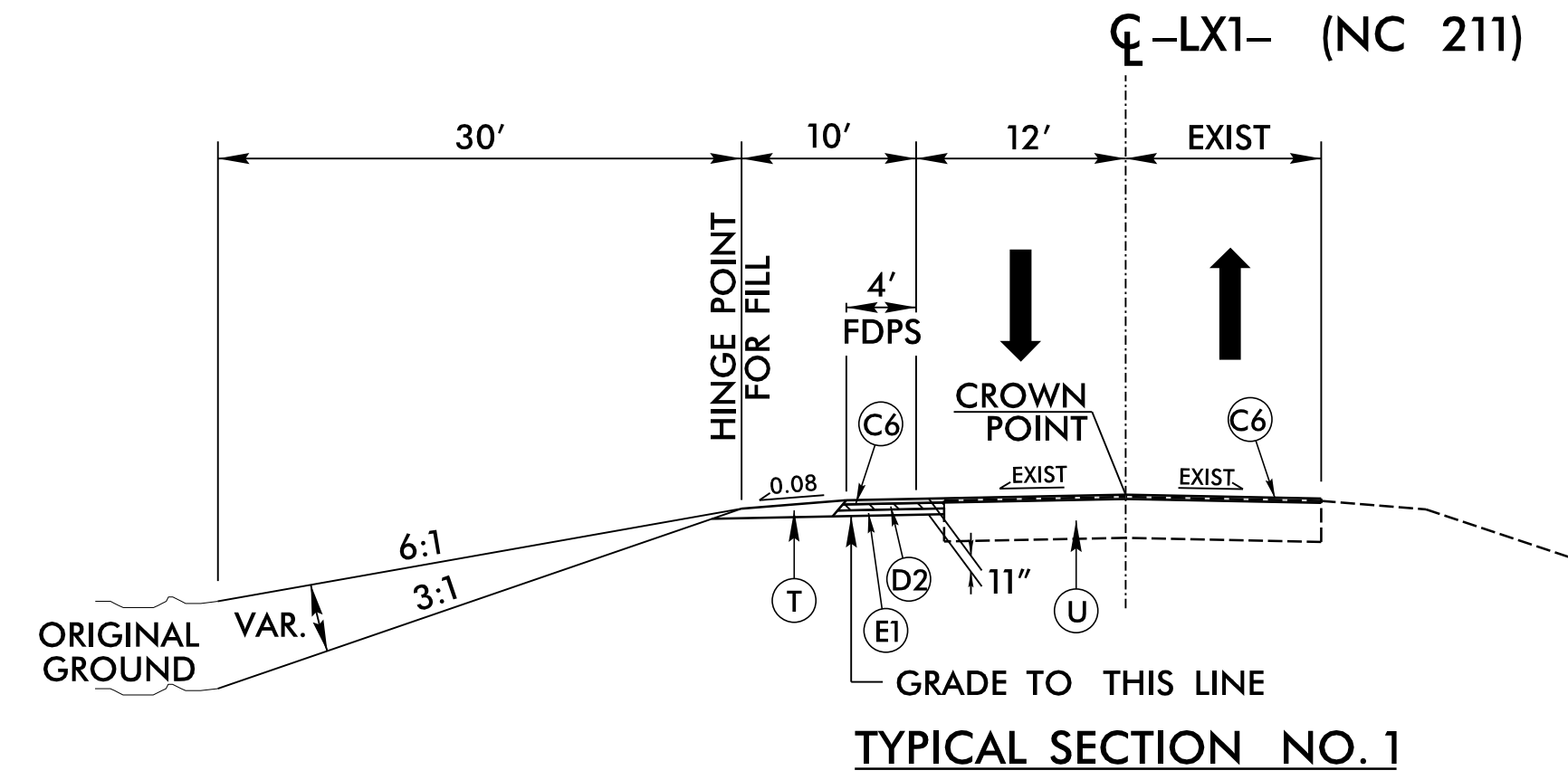

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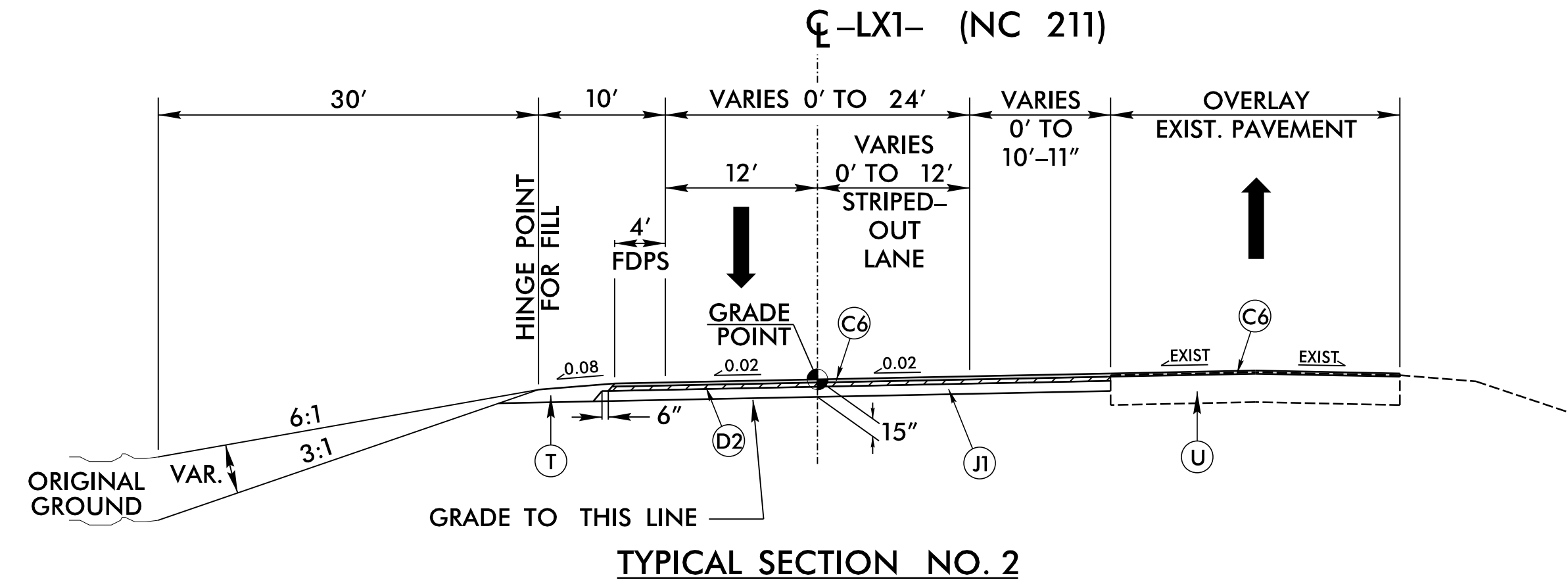
8/17/99

PAVEMENT SCHEDULE	
C6	3" S9.5C
D2	4" I19.0C
E1	4" B25.0C
J1	8" ABC
T	EARTH MATERIAL
U	EXIST. PAVEMENT

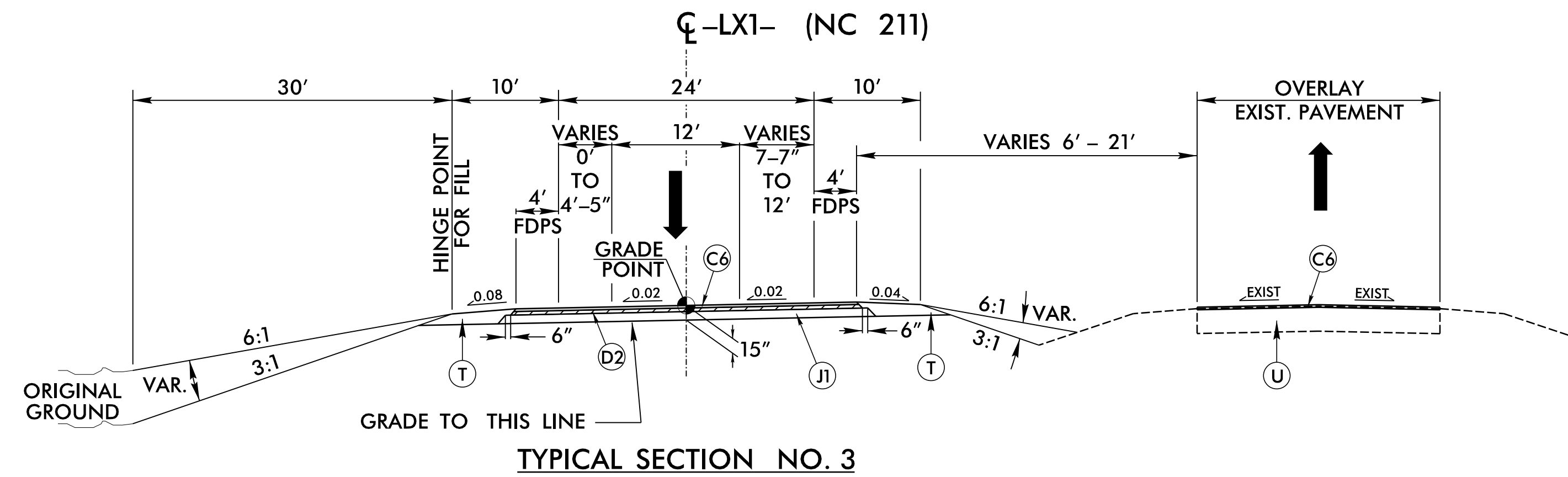
PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



**USE TYPICAL SECTION NO. 1**  
-LX1- STA. 10+00.00 TO STA. 14+93.46



**USE TYPICAL SECTION NO. 2**  
-LX1- STA. 14+93.46 TO STA. 18+41.61



**USE TYPICAL SECTION NO. 3**  
-LX1- STA. 18+41.61 TO STA. 20+83.11

**NOTES**  
PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
SEE PLANS FOR LOCATION OF AUXILIARY LANES, SIDEWALK, CONCRETE ISLANDS, AND TAPERS.

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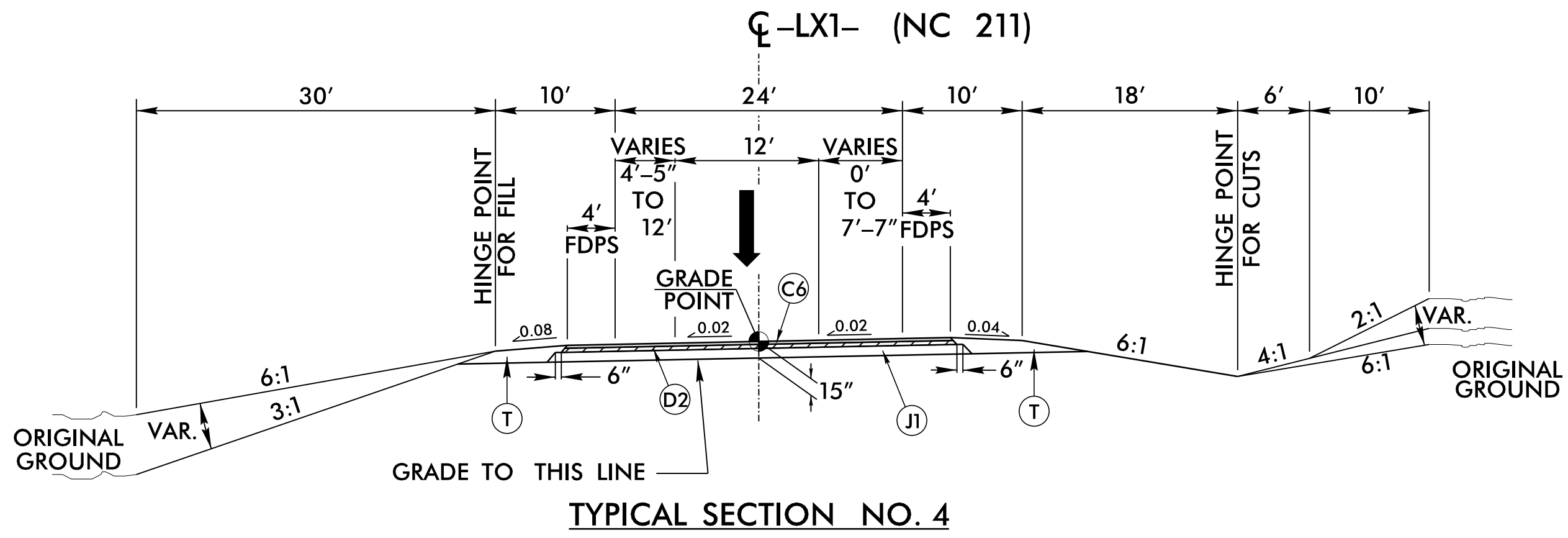
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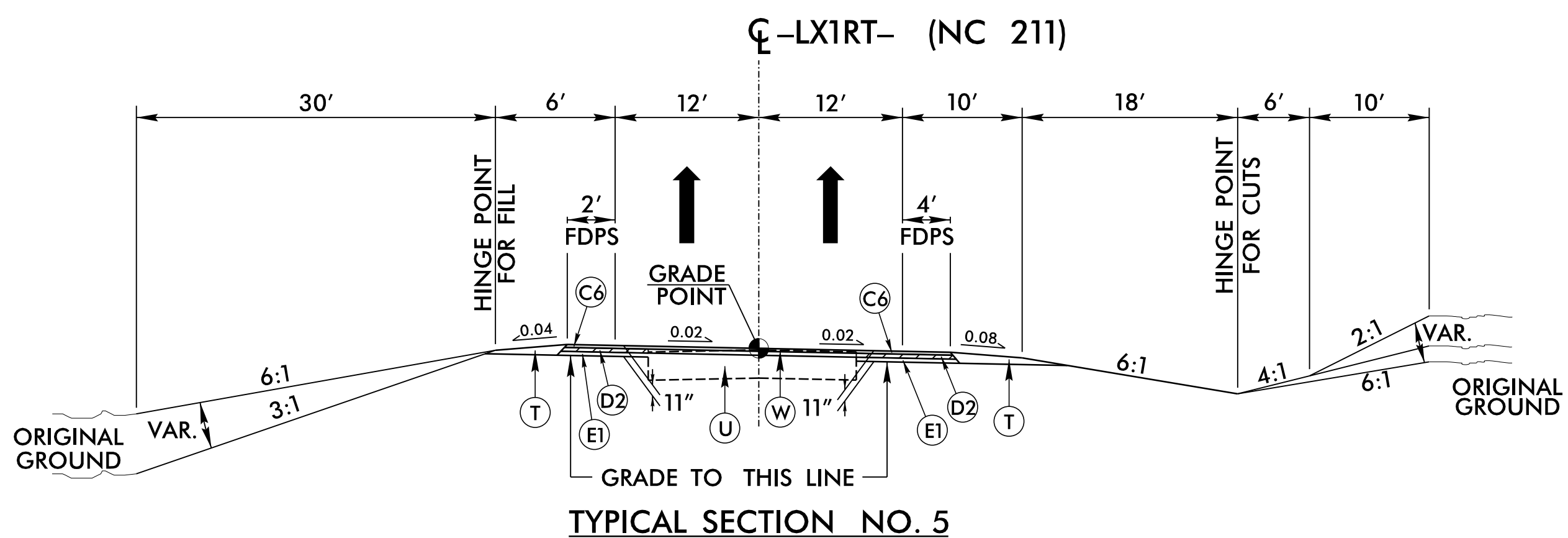
8/17/99

PAVEMENT SCHEDULE	
C6	3" S9.5C
D2	4" I19.0C
E1	4" B25.0C
J1	8" ABC
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER
Mary E. Mays	Andrew D. Wargo
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



**USE TYPICAL SECTION NO. 4**  
-LX1- STA. 20+83.11 TO STA. 26+18.97



**USE TYPICAL SECTION NO. 5**  
-LX1RT- STA. 10+00.00 TO STA. 15+32.80

**NOTES**  
PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
SEE PLANS FOR LOCATION OF AUXILIARY LANES, SIDEWALK, CONCRETE ISLANDS, AND TAPERS.

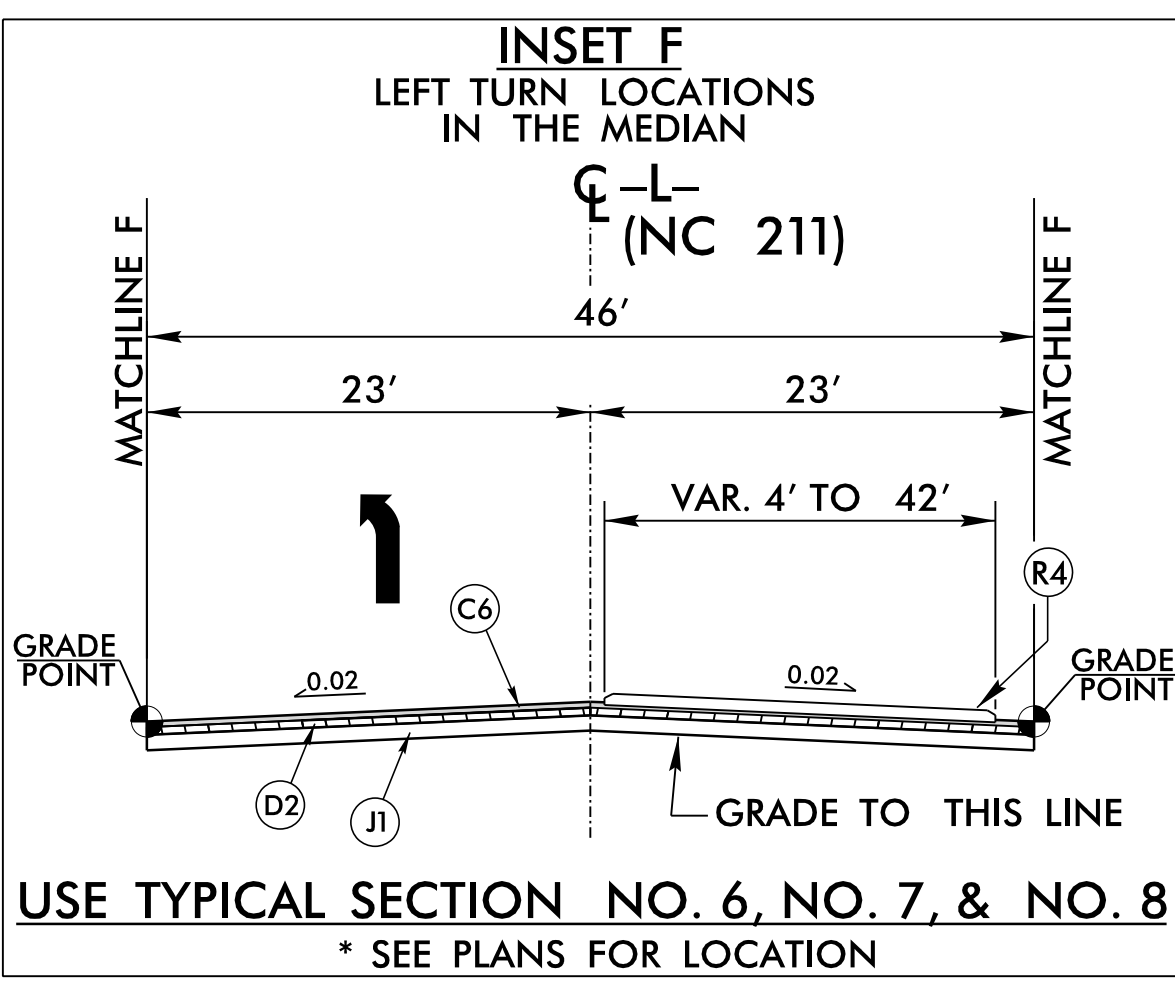
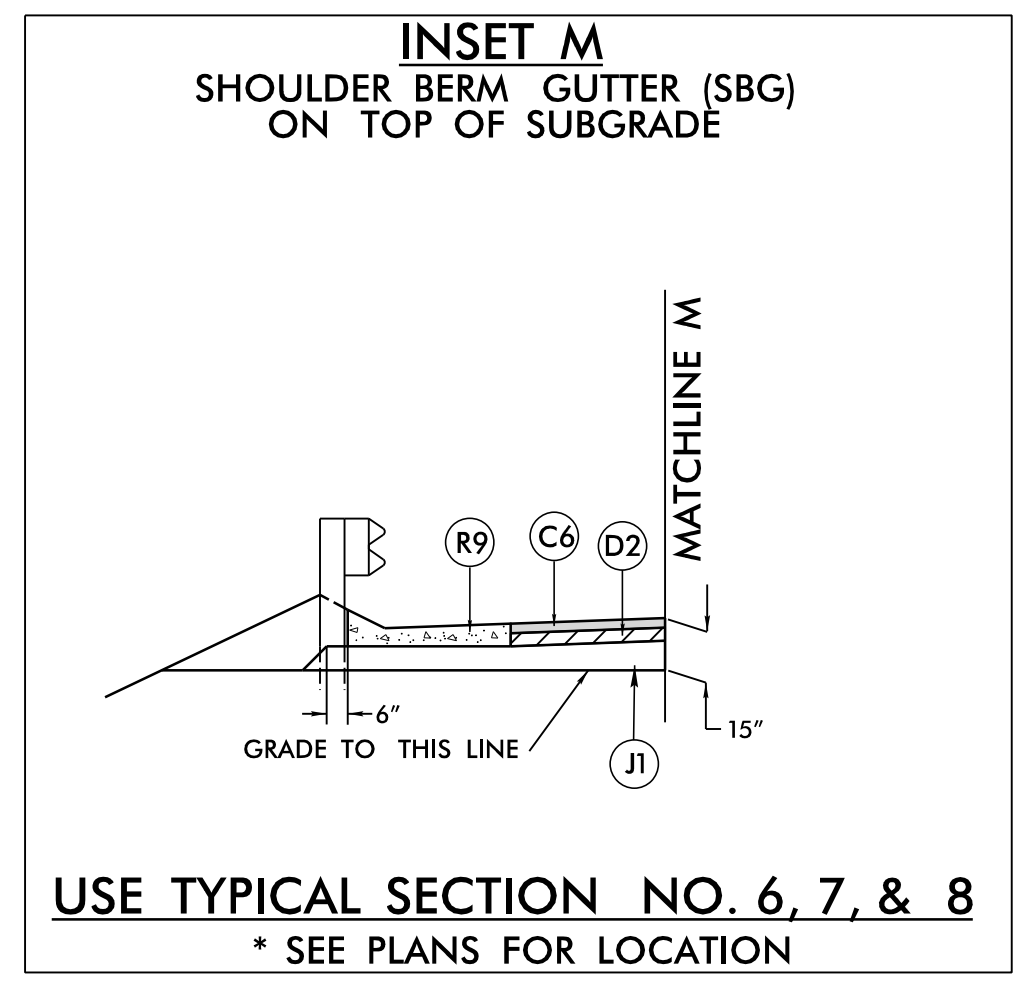
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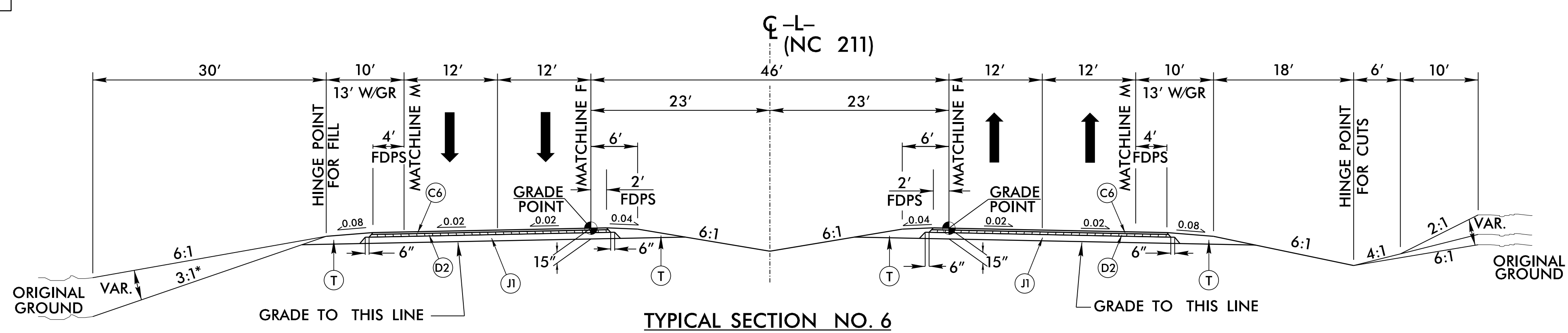
8/17/99

PAVEMENT SCHEDULE

C6	3" S9.5C
D2	4" I19.0C
E1	4" B25.0C
J1	8" ABC
R4	5" CONC. ISLAND
R9	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING



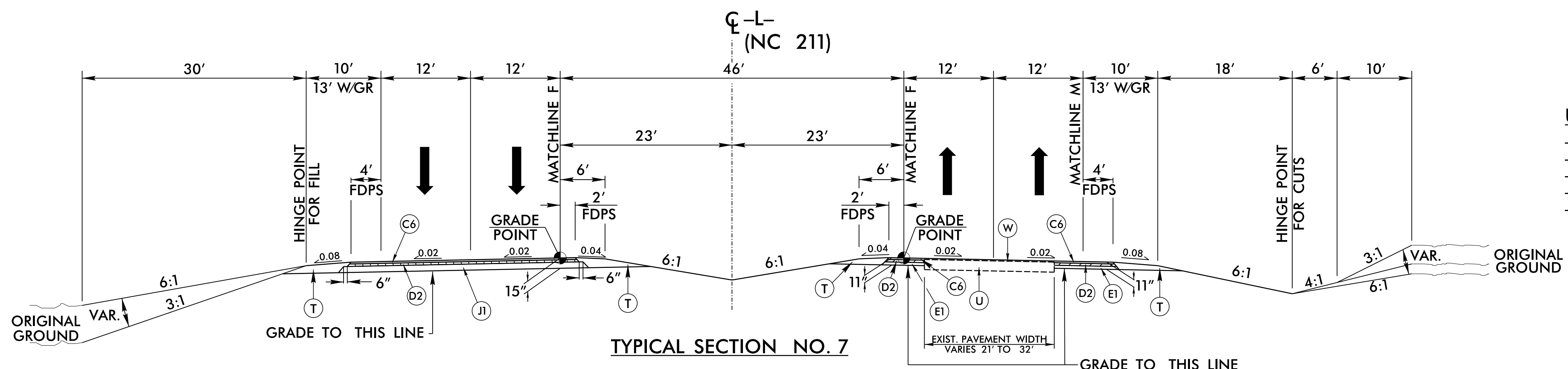
PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER Mary E. Mays, P.E. SEAL 040878 NORTH CAROLINA PROFESSIONAL ENGINEER	PAVEMENT ENGINEER Andrew D. Walco, P.E. SEAL 044590 NORTH CAROLINA PROFESSIONAL ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



USE TYPICAL SECTION NO. 6

- L STA. 336+00.00 TO STA. 341+00.00
- L STA. 347+50.00 TO STA. 356+00.00
- L STA. 357+50.00 TO STA. 362+18.44
- L STA. 367+00.00 TO STA. 370+50.00
- L STA. 412+50.00 TO STA. 417+00.00
- L STA. 433+50.00 TO STA. 434+50.00
- L STA. 445+50.00 TO STA. 448+50.00
- L STA. 477+50.00 TO STA. 481+00.00
- L STA. 496+50.00 TO STA. 500+50.00
- L STA. 508+50.00 TO STA. 511+00.00
- L STA. 512+50.00 TO STA. 514+00.00
- L STA. 515+50.00 TO STA. 519+00.00
- L STA. 531+50.00 TO STA. 533+50.00
- L STA. 551+50.00 TO STA. 554+00.00
- L STA. 555+50.00 TO STA. 570+00.00
- L STA. 581+00.00 TO STA. 591+00.00
- L STA. 592+00.00 TO STA. 604+50.00
- L STA. 607+00.00 TO STA. 632+50.00
- L STA. 648+00.00 TO STA. 678+50.00
- L STA. 715+50.00 TO STA. 719+50.00
- L STA. 723+50.00 TO STA. 726+50.00
- L STA. 728+00.00 TO STA. 732+50.00
- L STA. 763+50.00 TO STA. 774+00.00

\*NOTE: USE SEPARATE -L RT- GRADES IN THE FOLLOWING LOCATION:  
-L STA. 648+00 TO STA. 653+40



USE TYPICAL SECTION NO. 7

- L STA. 328+00.00 TO STA. 336+00.00
- L STA. 341+00.00 TO STA. 347+50.00
- L STA. 356+00.00 TO STA. 357+50.00
- L STA. 361+50.00 TO STA. 367+00.00
- L STA. 370+50.00 TO STA. 377+35.09

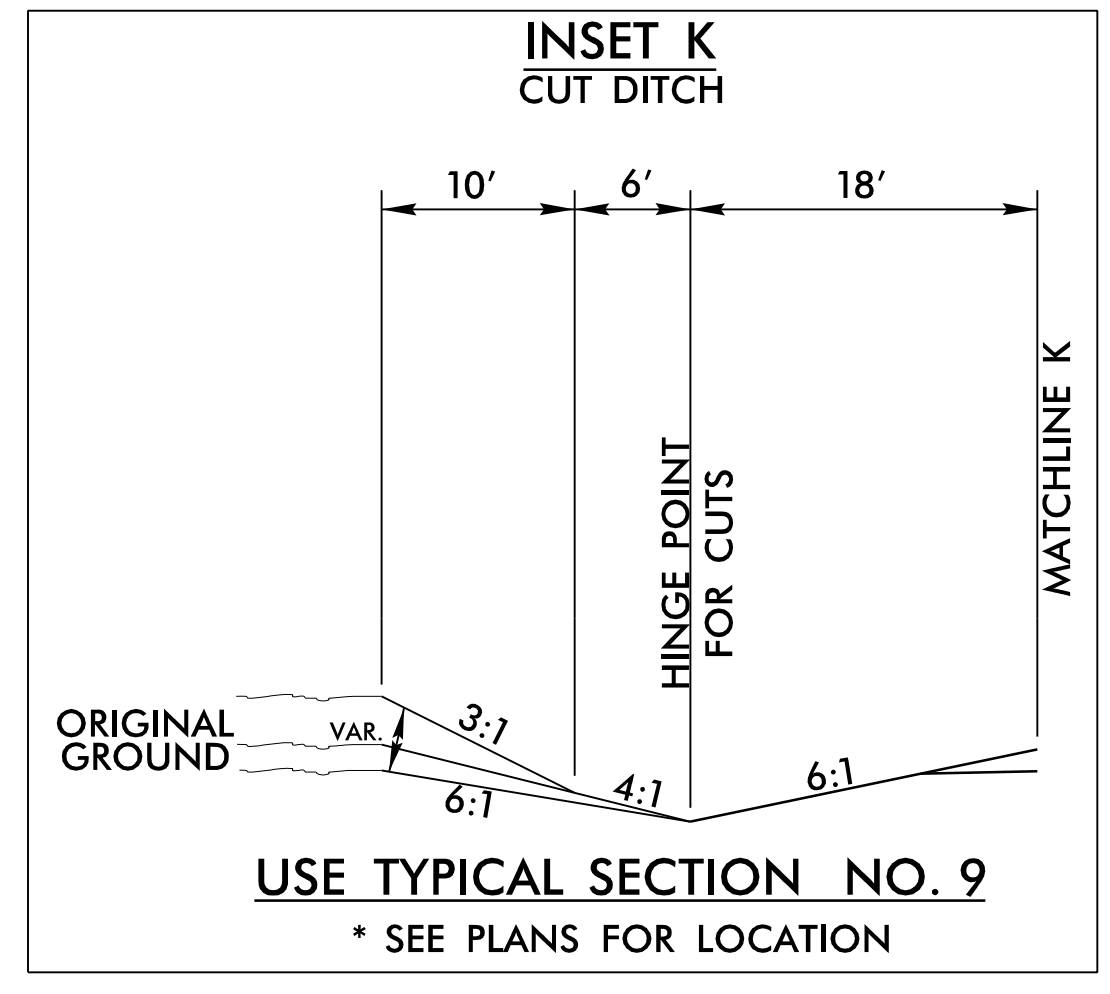
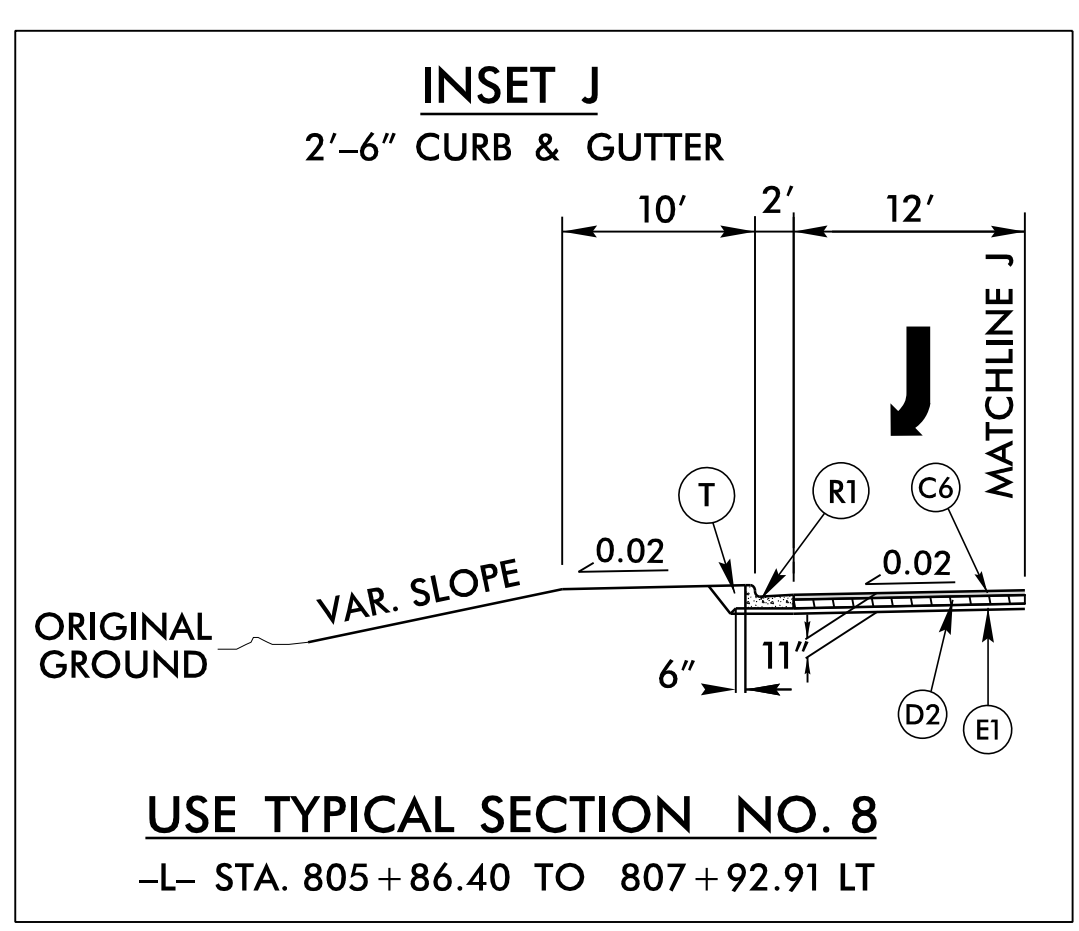
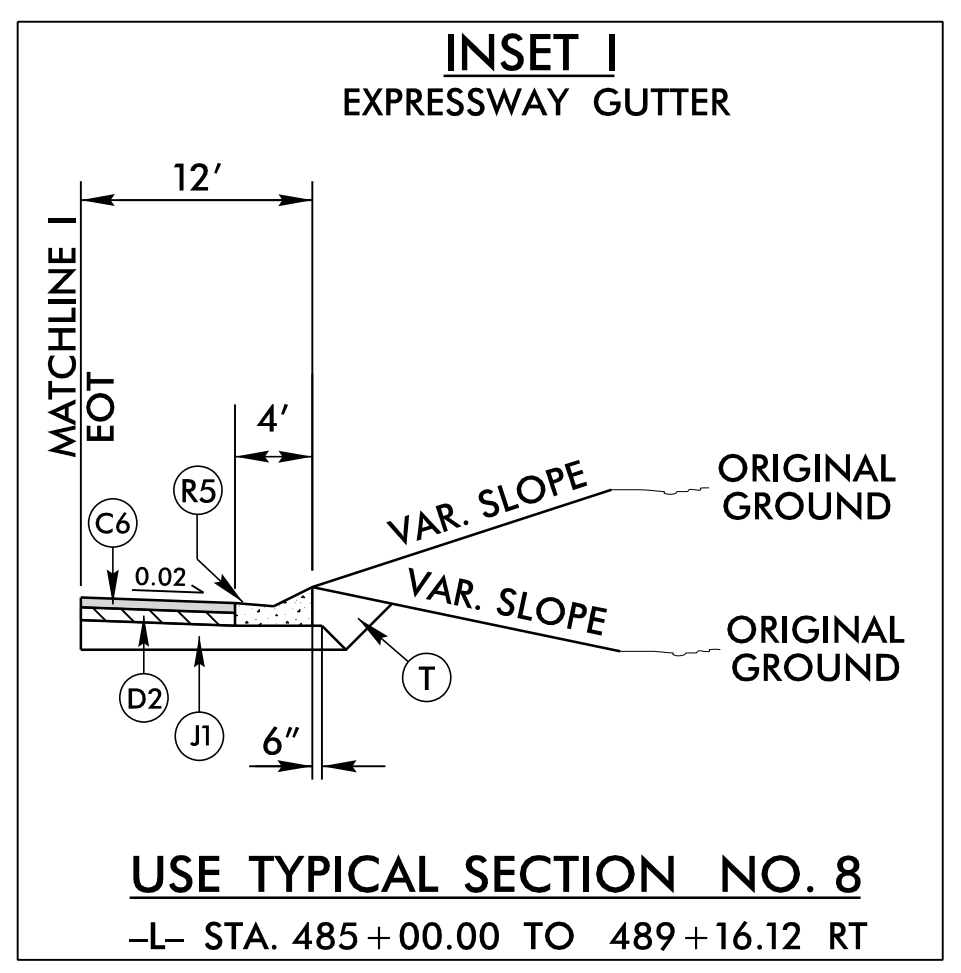
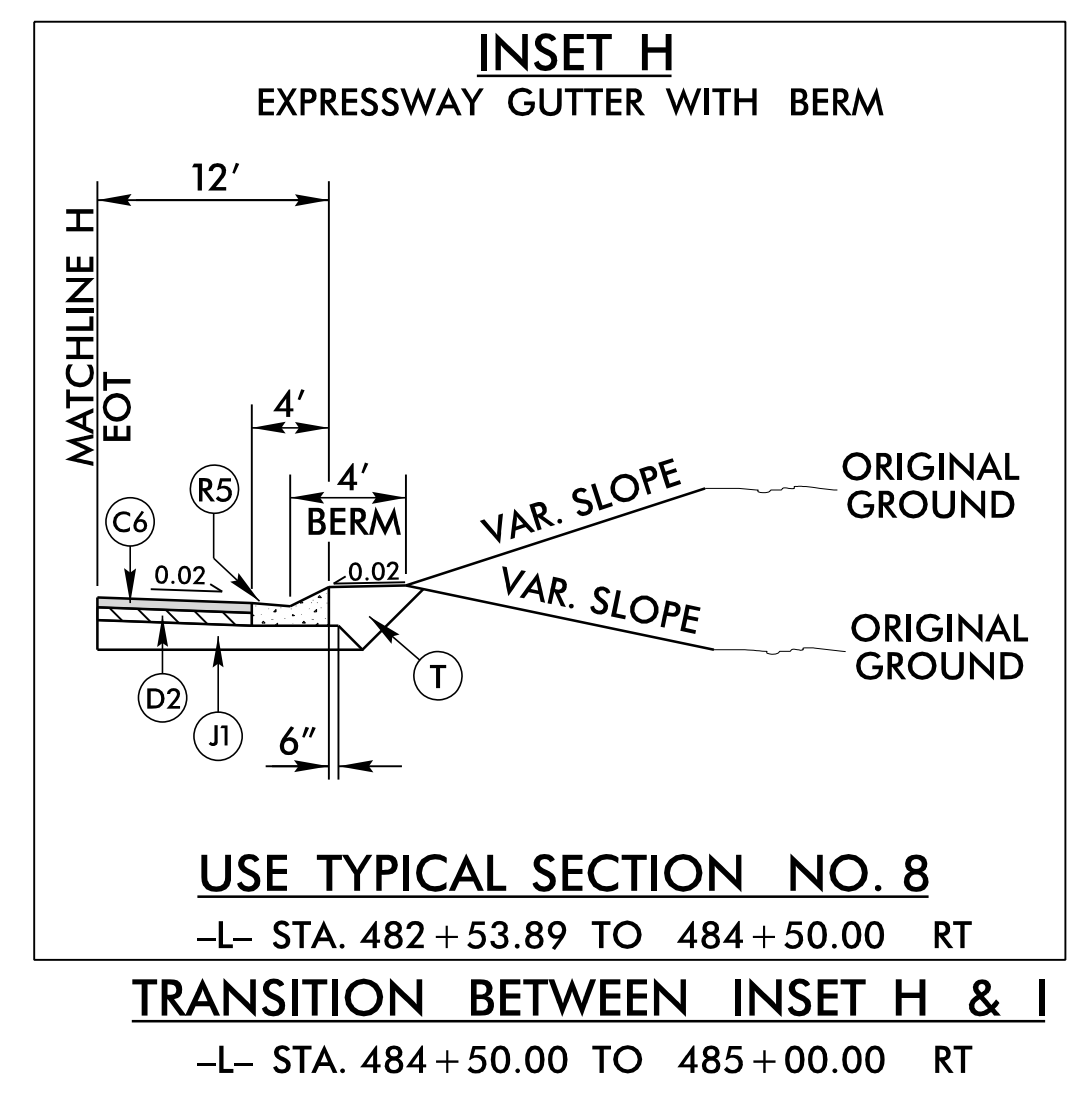
NOTES  
PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
SEE PLANS FOR LOCATION OF AUXILIARY LANES, SIDEWALK, CONCRETE ISLANDS, AND TAPERS.

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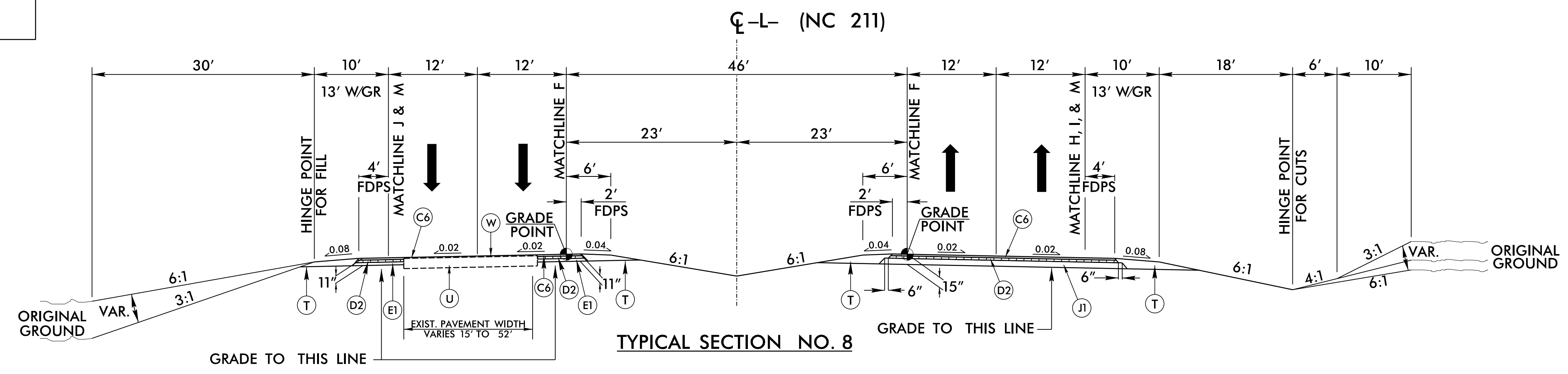


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PAVEMENT SCHEDULE	
C6	3" S9.5C
D2	4" I19.0C
E1	4" B25.0C
J1	8" ABC
R1	2'-6" C&G
R5	EXPRESSWAY GUTTER
S	4" CONC. SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

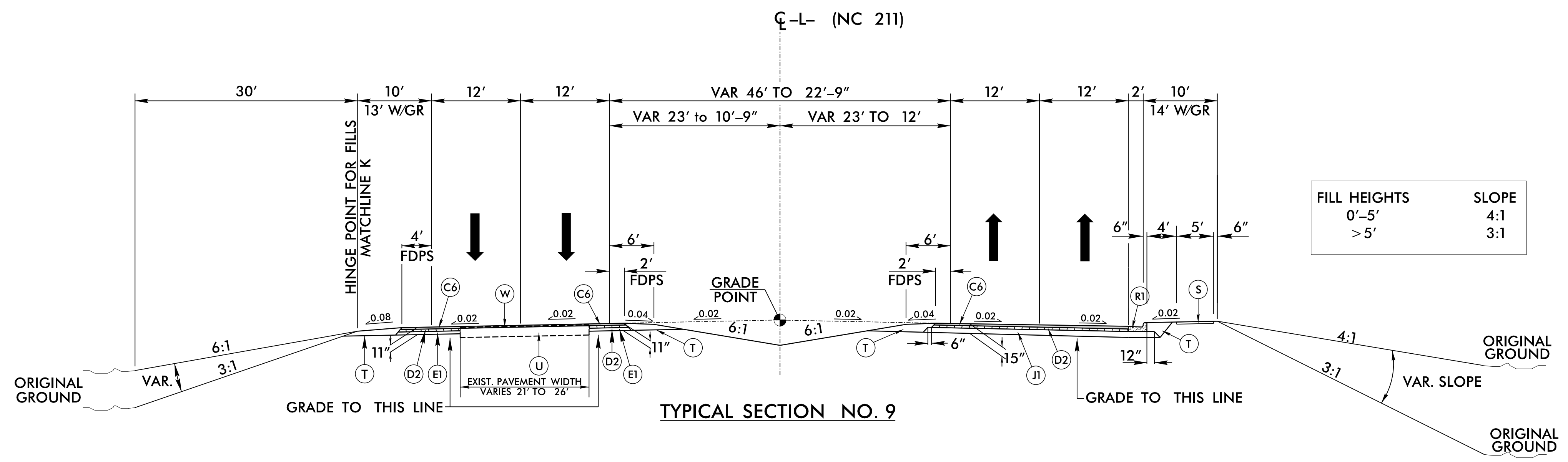


PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-5
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



- USE TYPICAL SECTION NO. 8**
- L- STA. 377+35.09 TO STA. 412+50.00
  - L- STA. 417+00.00 TO STA. 433+50.00
  - L- STA. 434+50.00 TO STA. 445+50.00
  - L- STA. 448+50.00 TO STA. 477+50.00
  - L- STA. 481+00.00 TO STA. 496+50.00
  - L- STA. 500+50.00 TO STA. 508+50.00
  - L- STA. 511+00.00 TO STA. 512+50.00
  - L- STA. 514+00.00 TO STA. 515+50.00
  - L- STA. 519+00.00 TO STA. 531+50.00
  - L- STA. 533+50.00 TO STA. 551+50.00
  - L- STA. 554+00.00 TO STA. 555+50.00
  - L- STA. 570+00.00 TO STA. 581+00.00
  - L- STA. 591+00.00 TO STA. 592+00.00
  - L- STA. 604+50.00 TO STA. 607+00.00
  - \*-L- STA. 632+50.00 TO STA. 648+00.00
  - \*-L- STA. 678+50.00 TO STA. 715+50.00
  - L- STA. 719+50.00 TO STA. 723+50.00
  - L- STA. 726+50.00 TO STA. 728+00.00
  - L- STA. 732+50.00 TO STA. 763+50.00
  - L- STA. 774+00.00 TO STA. 811+00.00

\*NOTE: USE SEPARATE -L RT- GRADES IN THE FOLLOWING LOCATION:  
 -L- STA. 692+95.00 TO STA. 707+50.00  
 -L- STA. 645+50.00 TO STA. 648+00.00



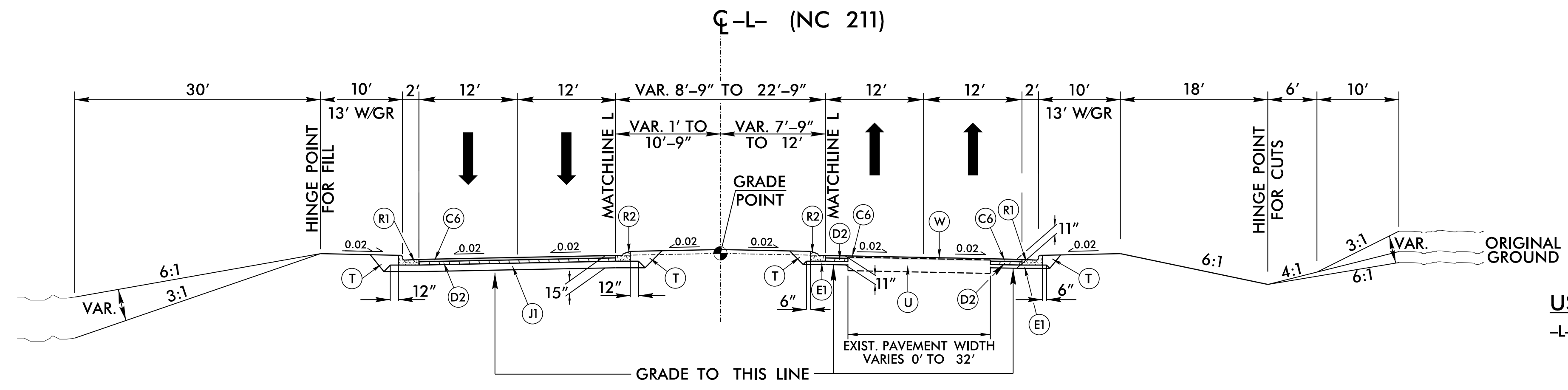
**USE TYPICAL SECTION NO. 9**  
 -L- STA. 811+00.00 TO STA. 817+59.00

**NOTES**  
 PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
 SEE PLANS FOR LOCATION OF AUXILIARY LANES, SIDEWALK, CONCRETE ISLANDS, AND TAPERS.

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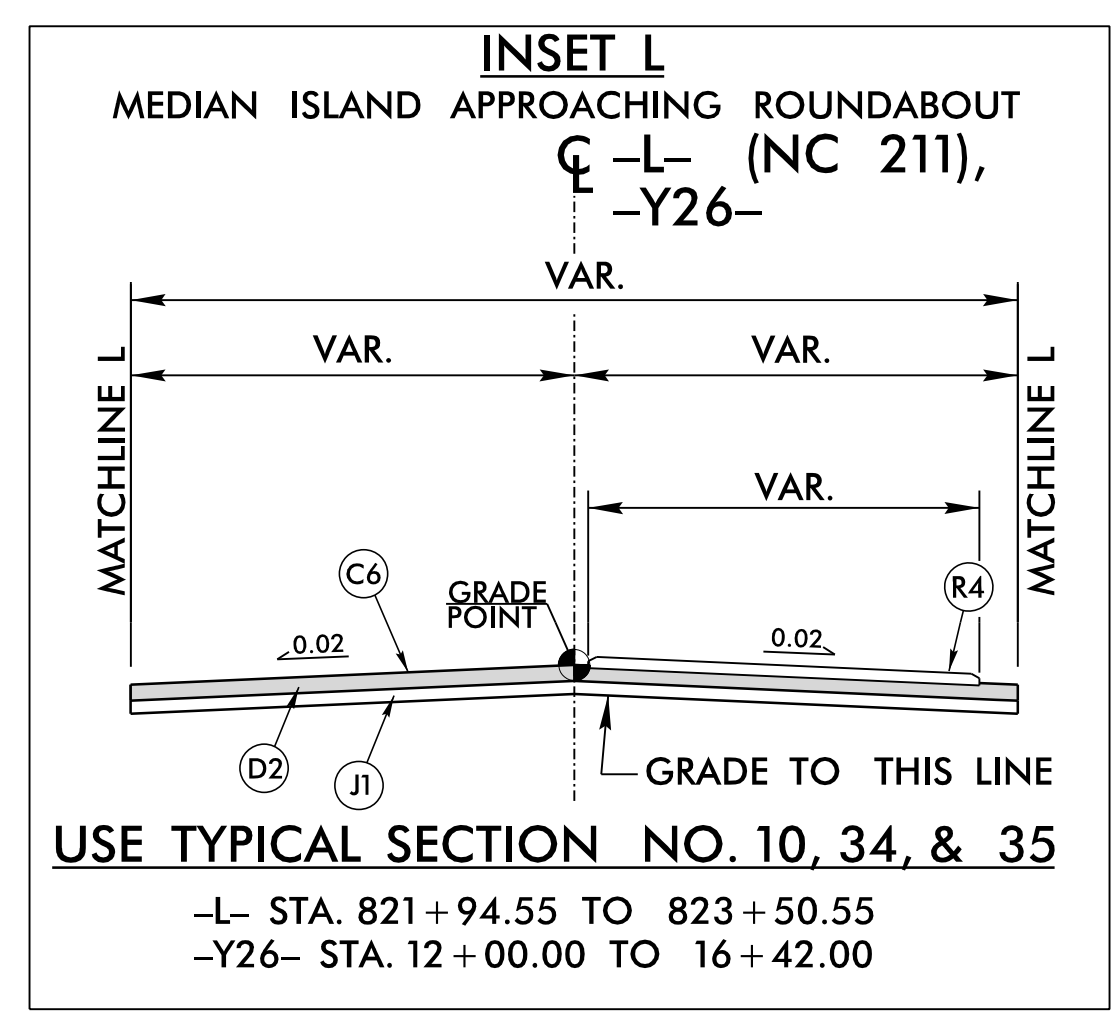
8/17/99

PAVEMENT SCHEDULE	
A1	12" 4x4 WIRE MESH
C6	3" S9.5C
D2	4" I19.0C
E1	4" B25.0C
J1	8" ABC
R1	2'-6" C&G
R2	1'-6" C&G
R4	5" CONC. ISLAND
R5	EXPRESSWAY GUTTER
R6	4" CONC. COVER
SM	SELECT MATERIAL
S	4" CONC. SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

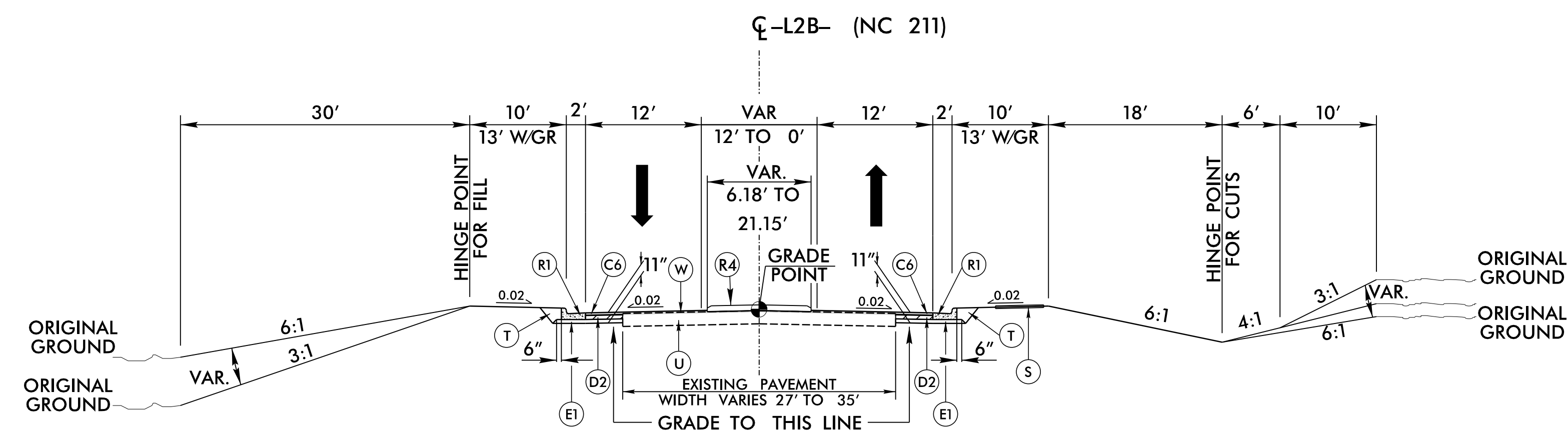


TYPICAL SECTION NO. 10

USE TYPICAL SECTION NO. 10  
 -L- STA. 817+59.00 TO STA. 823+46.17

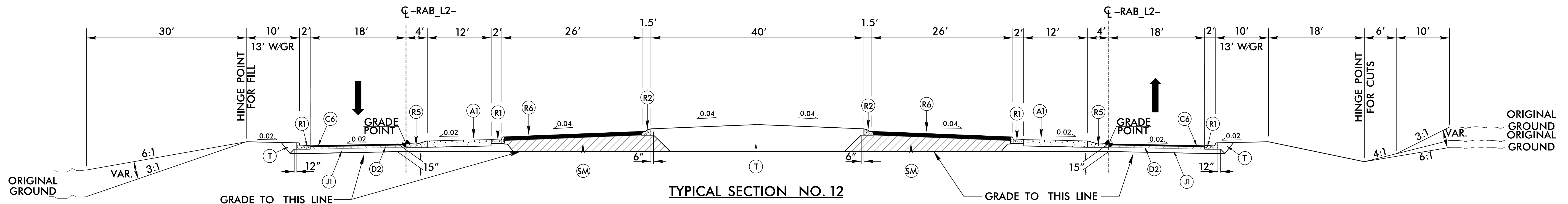


USE TYPICAL SECTION NO. 10, 34, & 35  
 -L- STA. 821+94.55 TO 823+50.55  
 -Y26- STA. 12+00.00 TO 16+42.00



TYPICAL SECTION NO. 11

USE TYPICAL SECTION NO. 11  
 -L2B- STA. 825+05.18 TO STA. 835+05.00



TYPICAL SECTION NO. 12

USE TYPICAL SECTION NO. 12  
 -RAB\_L2- STA 10+00.00 TO STA 14+02.12

NOTES  
 PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
 SEE PLANS FOR LOCATION OF AUXILIARY LANES, CONCRETE ISLANDS, AND TAPERS.

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER <i>Mary E. Mays</i>	PAVEMENT ENGINEER <i>Andrew D. Wargo</i>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

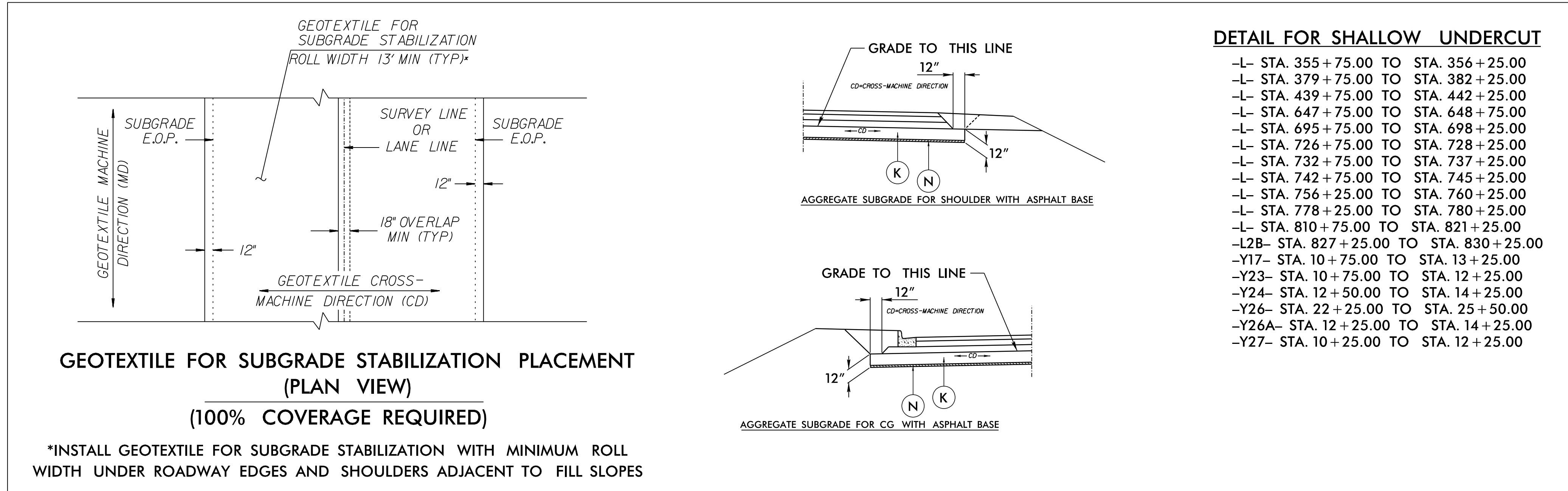
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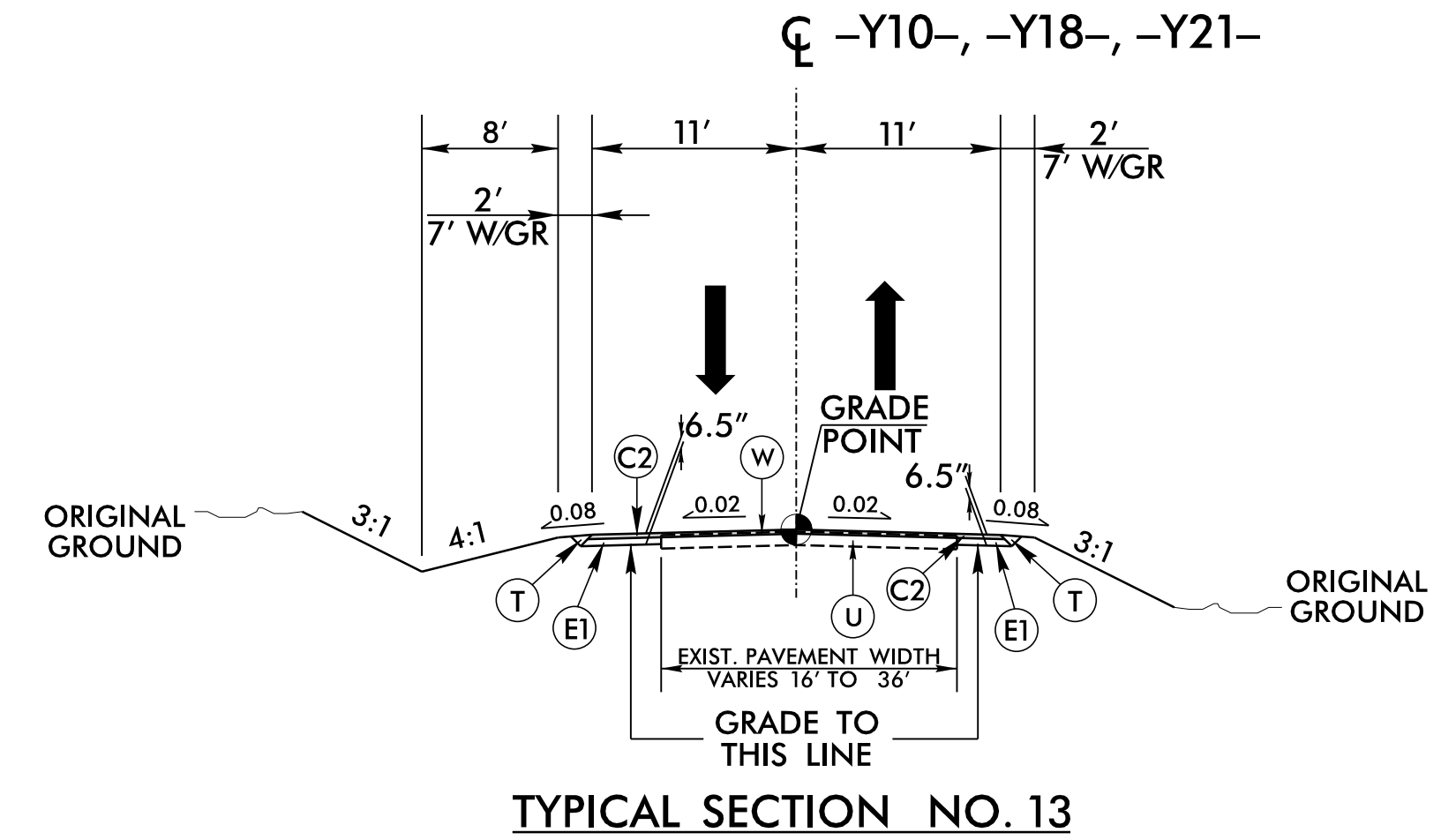


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PAVEMENT SCHEDULE	
C2	2.5" S9.5B
E1	4" B25.0C
K	12" CLASS IV
N	GEOTEXTILE
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING



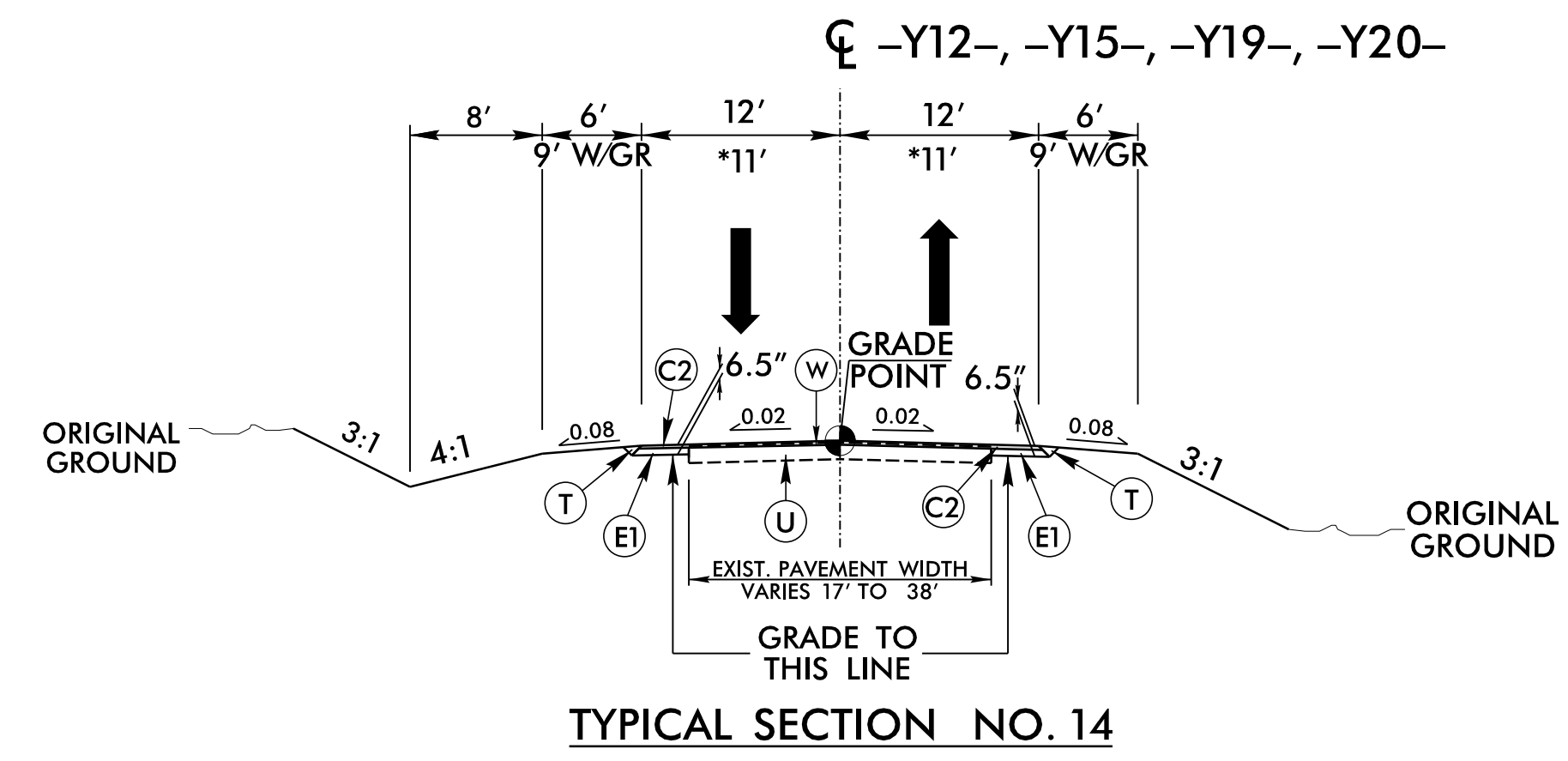
PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



**USE TYPICAL SECTION NO. 13**

- Y10- STA. 13+75.00 TO STA. 16+11.79
- Y10- STA. 17+30.42 TO STA. 19+75.00
- Y18- STA. 12+50.00 TO STA. 15+17.08
- Y21- STA. 10+51.78 TO STA. 12+50.00

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



**USE TYPICAL SECTION NO. 14**

- \*-Y12- STA. 10+59.00 TO STA. 12+00.00
- \*-Y15- STA. 12+00.00 TO STA. 13+25.00
- Y19- STA. 11+00.00 TO STA. 12+25.00
- \*-Y20- STA. 13+10.00 TO STA. 15+29.36

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211

**NOTES**

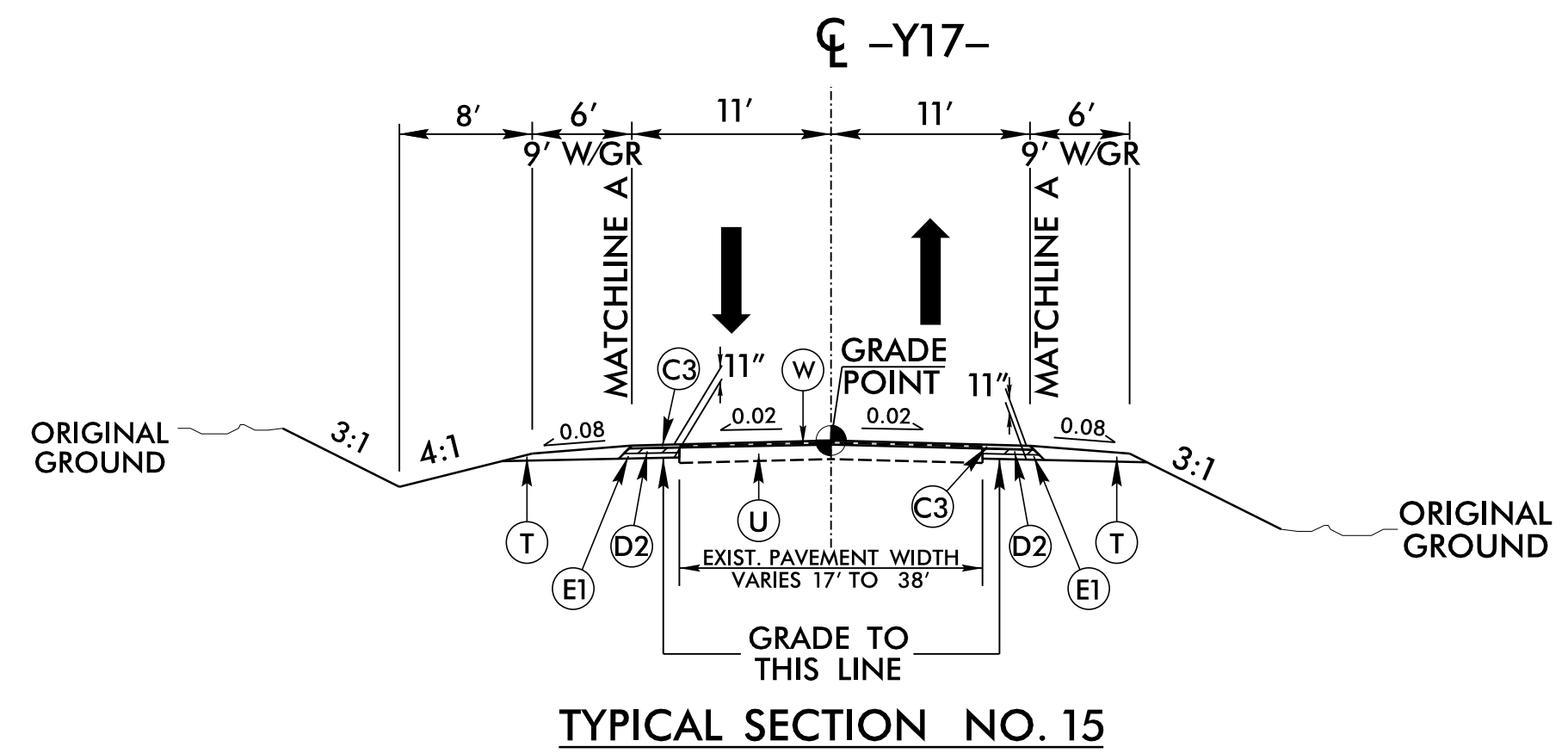
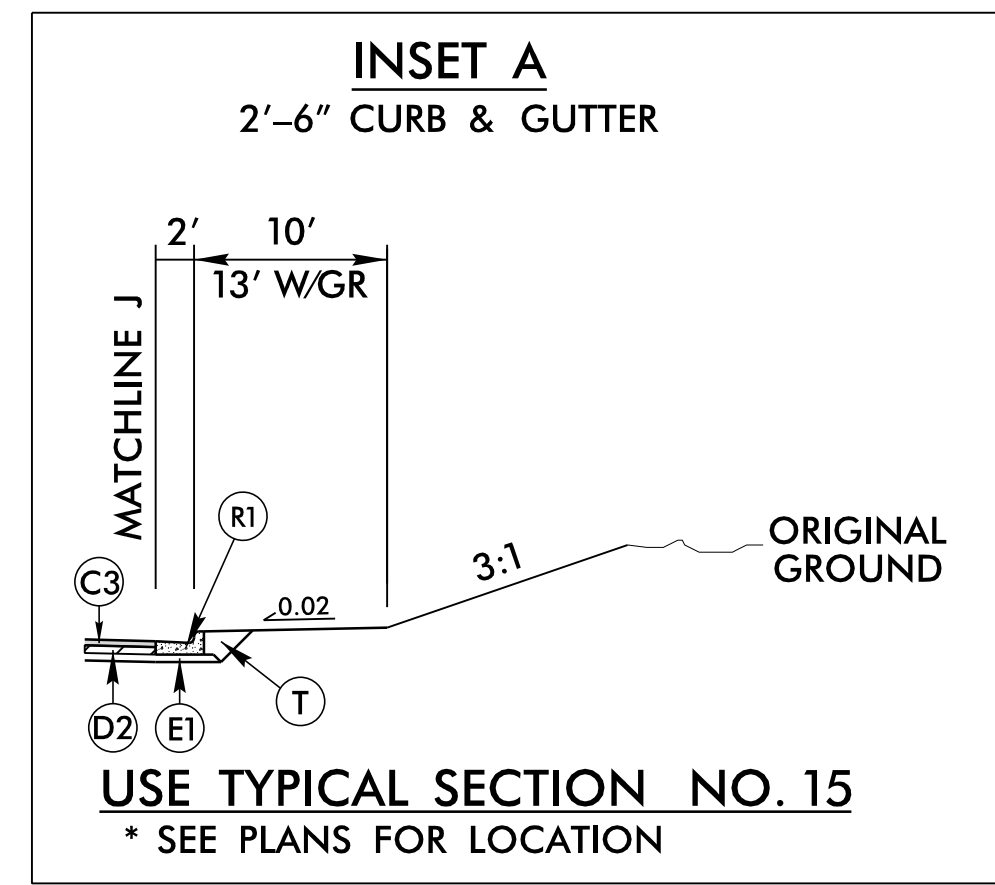
PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
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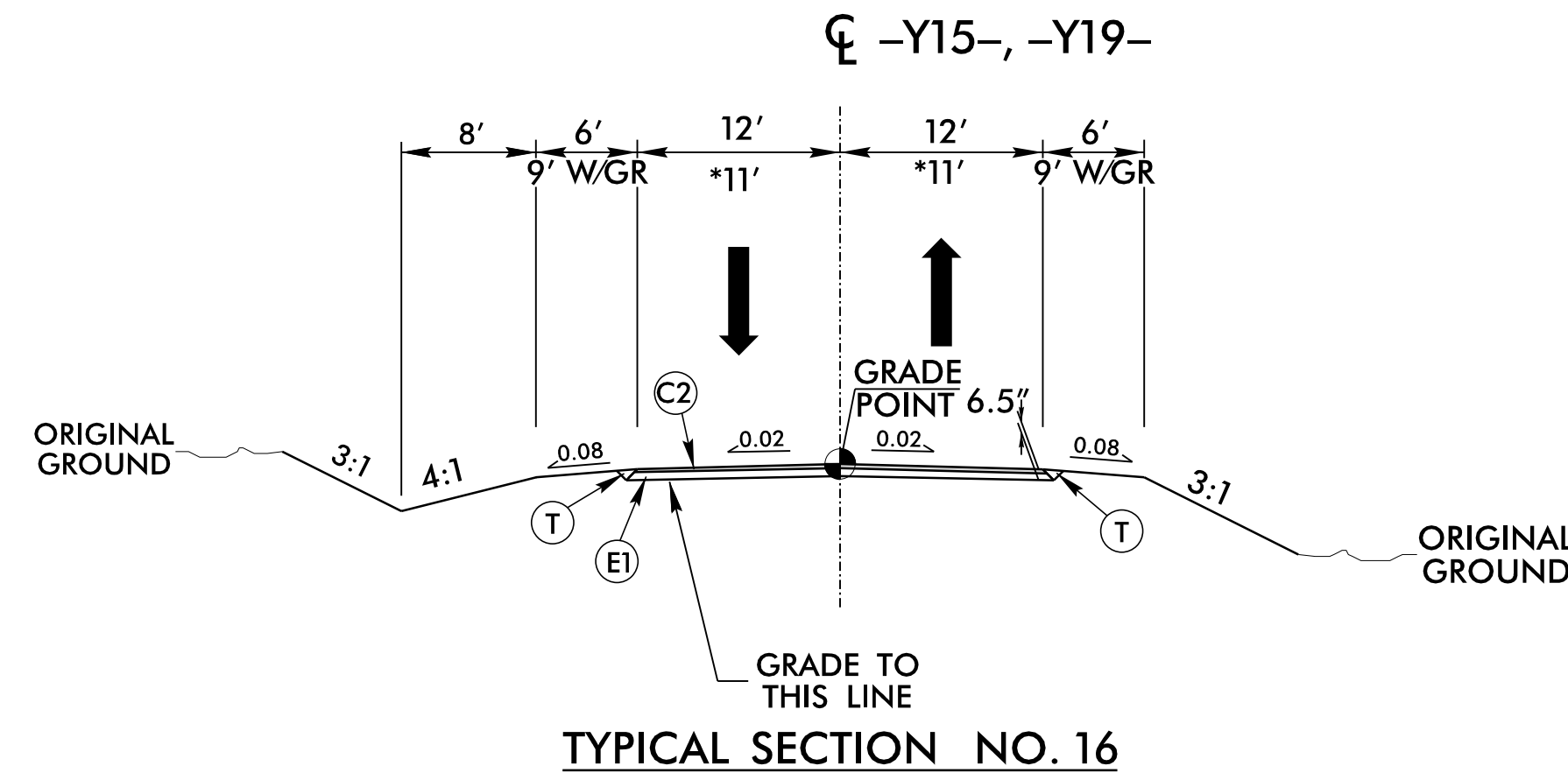
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8/17/99

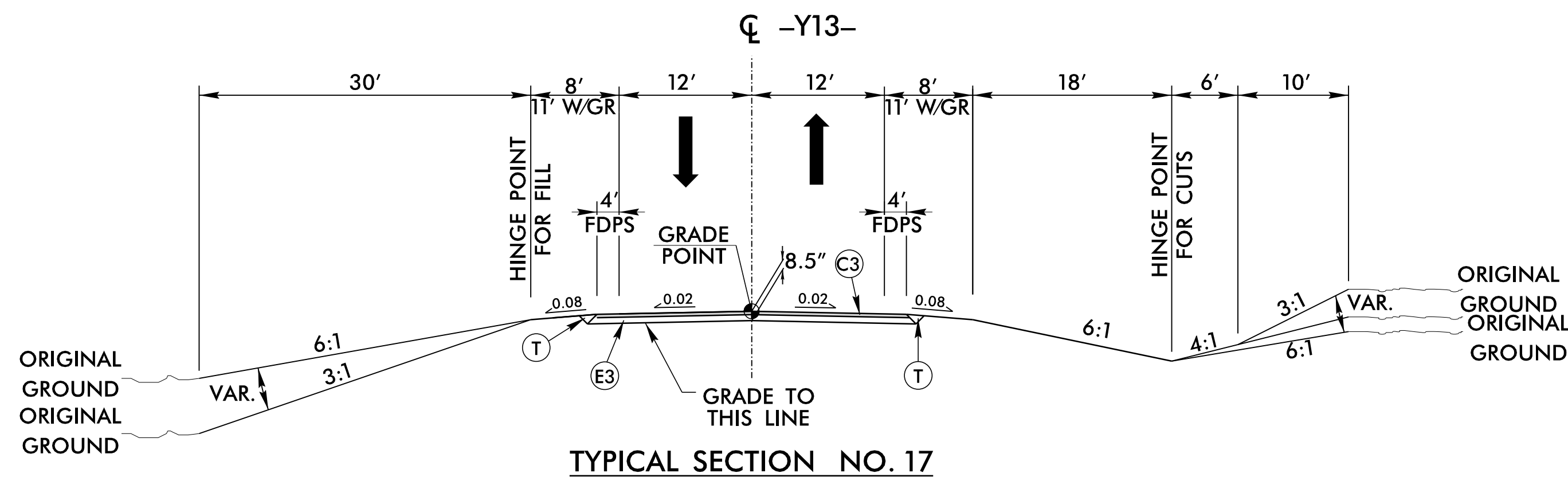
PAVEMENT SCHEDULE	
C2	2.5" S9.5B
C3	3" S9.5B
D2	4" I19.0C
E1	4" B25.0C
E3	5.5" B25.0C
R1	2'-6" C&G
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING



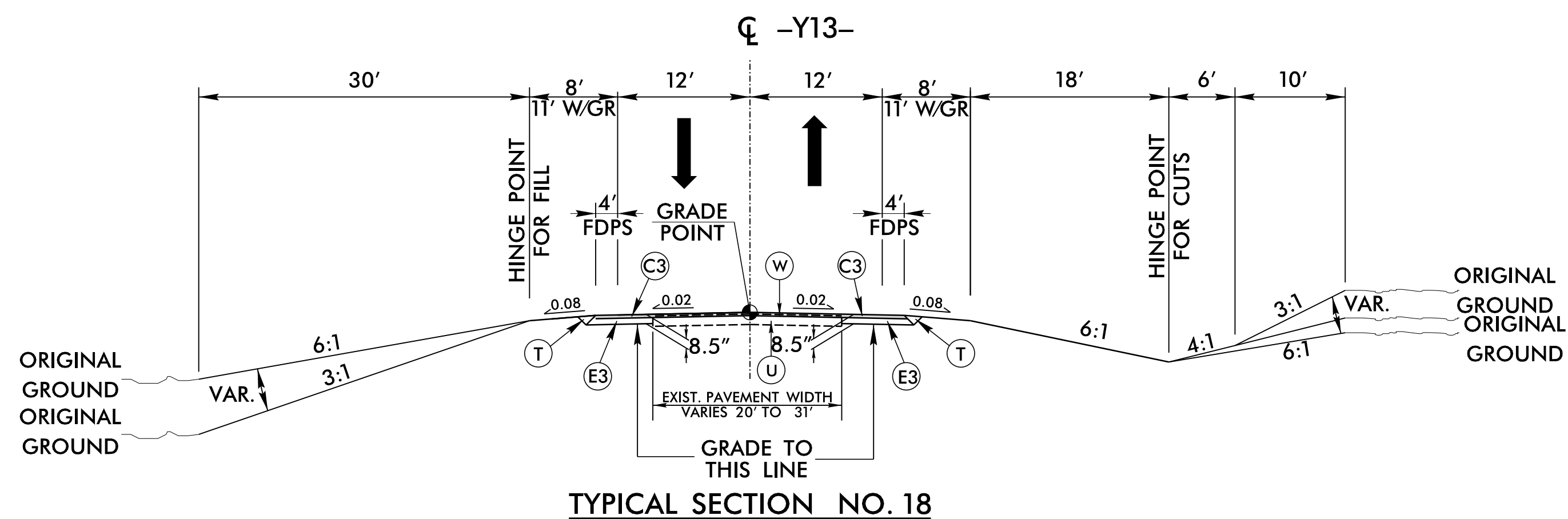
**USE TYPICAL SECTION NO. 15**  
 -Y17- STA. 11+75.00 TO STA. 13+00.00  
 NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



**USE TYPICAL SECTION NO. 16**  
 \*-Y15- STA. 13+25.00 TO STA. 15+09.60  
 -Y19- STA. 12+25.00 TO STA. 14+89.35  
 NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



**USE TYPICAL SECTION NO. 17**  
 -Y13- STA. 10+48.66 TO STA. 14+48.20  
 NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



**USE TYPICAL SECTION NO. 18**  
 -Y13- STA. 14+48.20 TO STA. 18+90.00  
 NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211

**NOTES**  
 PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
 SEE PLANS FOR LOCATION OF AUXILIARY LANES, CONCRETE ISLANDS, AND TAPERS.

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-8
ROADWAY DESIGN ENGINEER Mary Mays Hall	PAVEMENT ENGINEER Andrew V. Perry
SEAL 040878 NORTH CAROLINA PROFESSIONAL ENGINEER	SEAL 044590 NORTH CAROLINA PROFESSIONAL ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

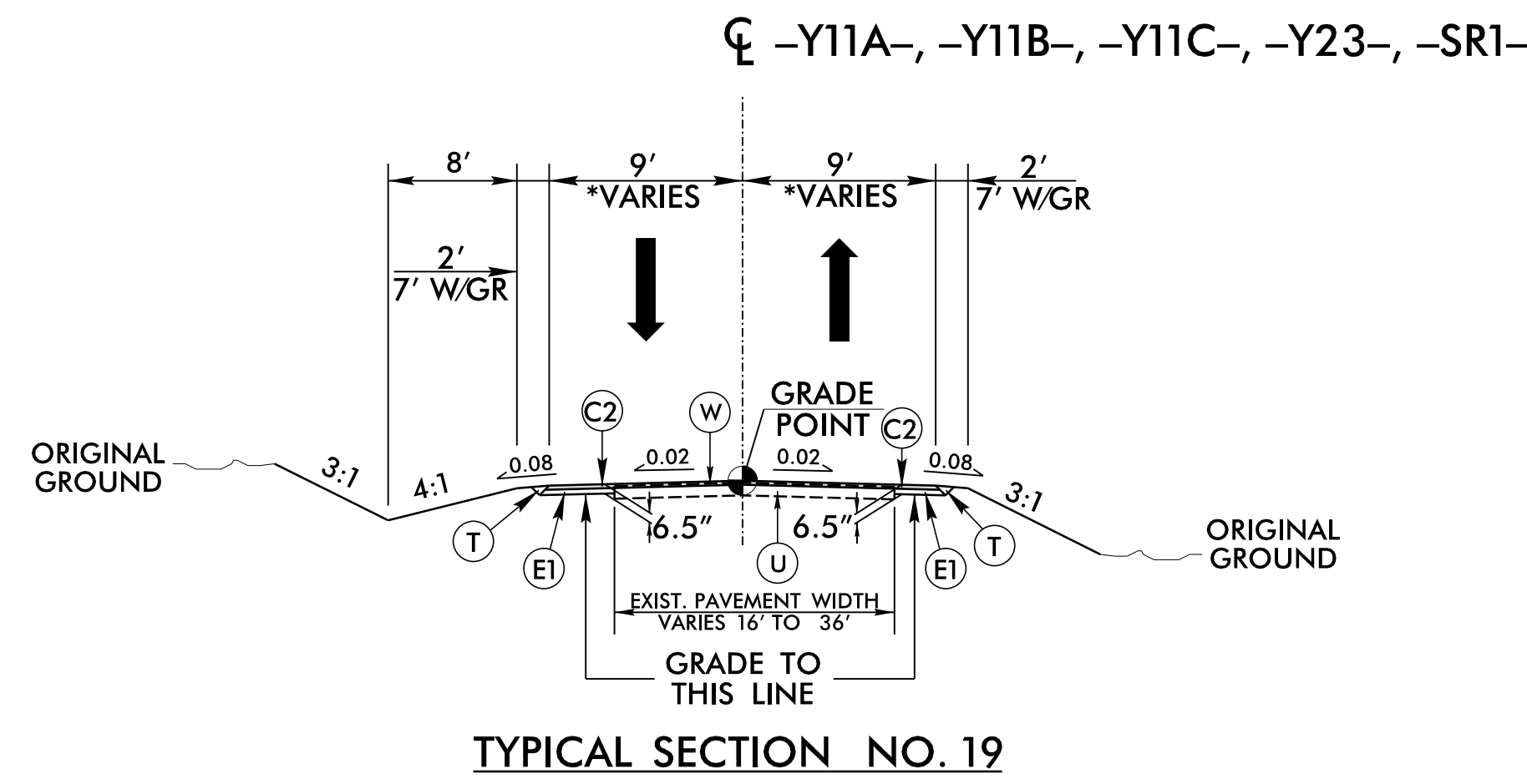
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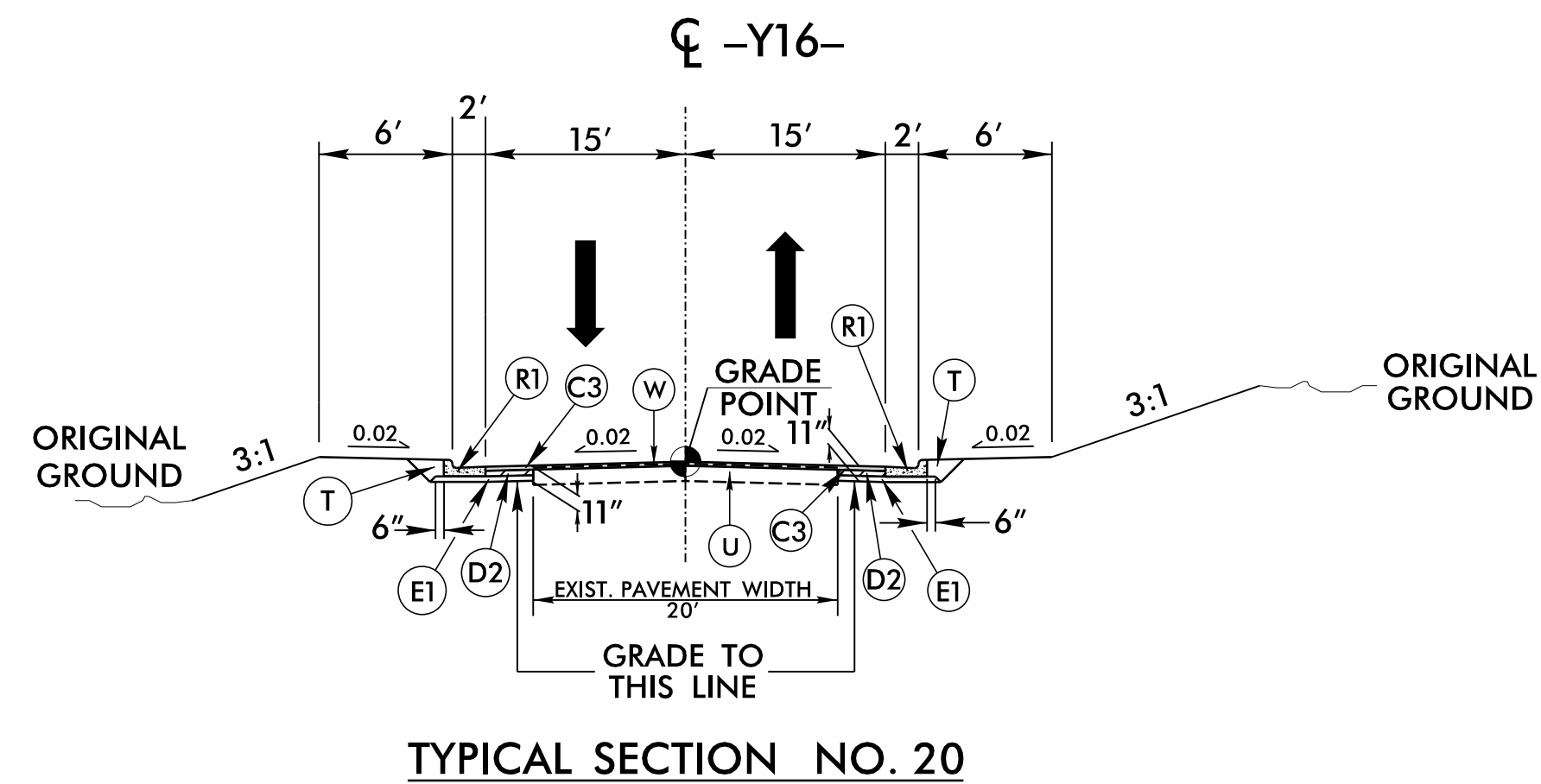
8/17/99

PAVEMENT SCHEDULE	
C2	2.5" S9.5B
C3	3" S9.5B
C6	3" S9.5C
D2	4" I19.0C
E1	4" B25.0C
J1	8" ABC
R1	2'-6" C&G
R9	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING



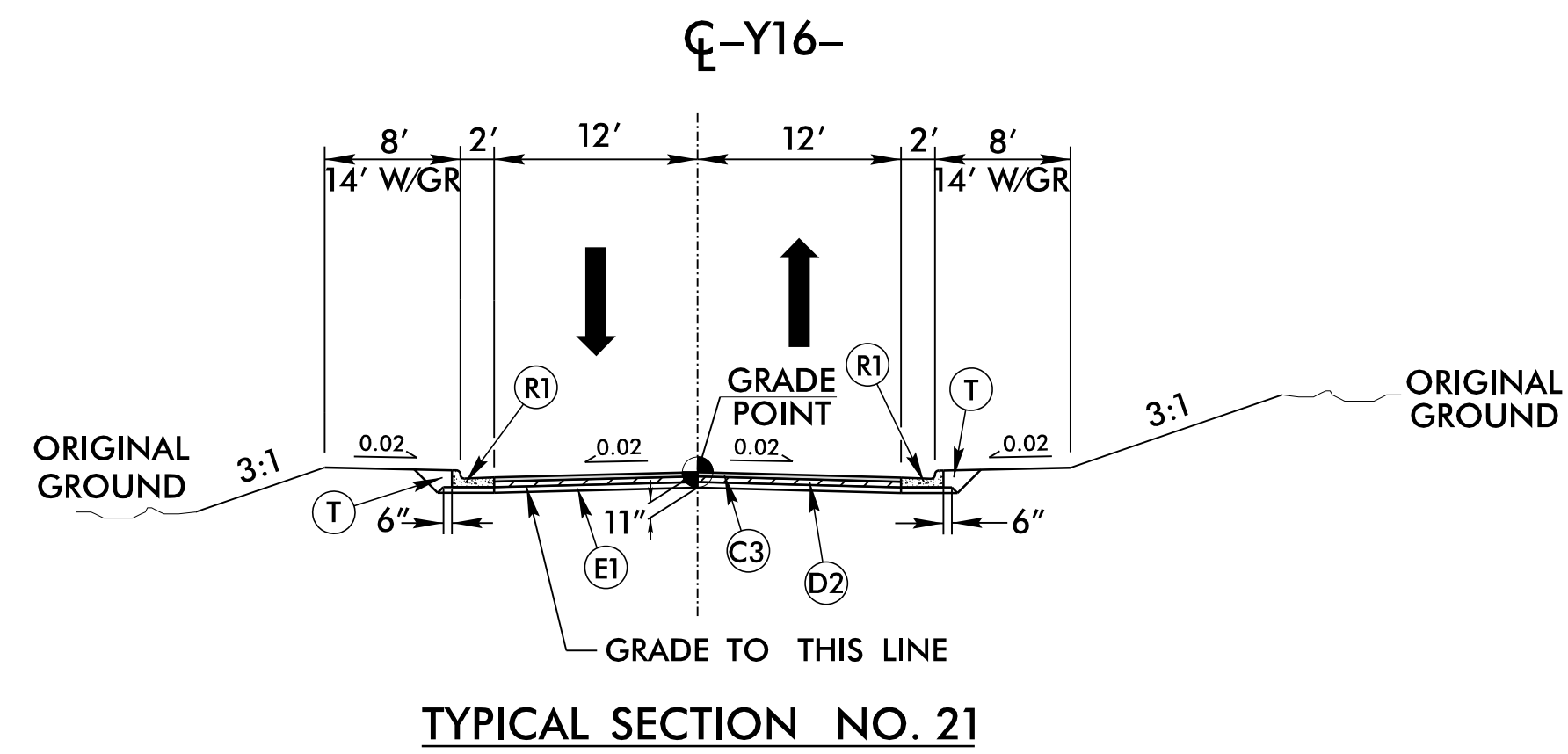
**USE TYPICAL SECTION NO. 19**  
 -Y11A- STA. 10+75.00 TO STA. 12+18.70  
 -Y11B- STA. 10+47.00 TO STA. 13+00.00  
 -Y11C- STA. 10+40.00 TO STA. 11+85.66  
 -Y23- STA. 10+59.48 TO STA. 12+00.00  
 \*SR1- STA. 15+00.00 TO STA. 17+65.85

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211

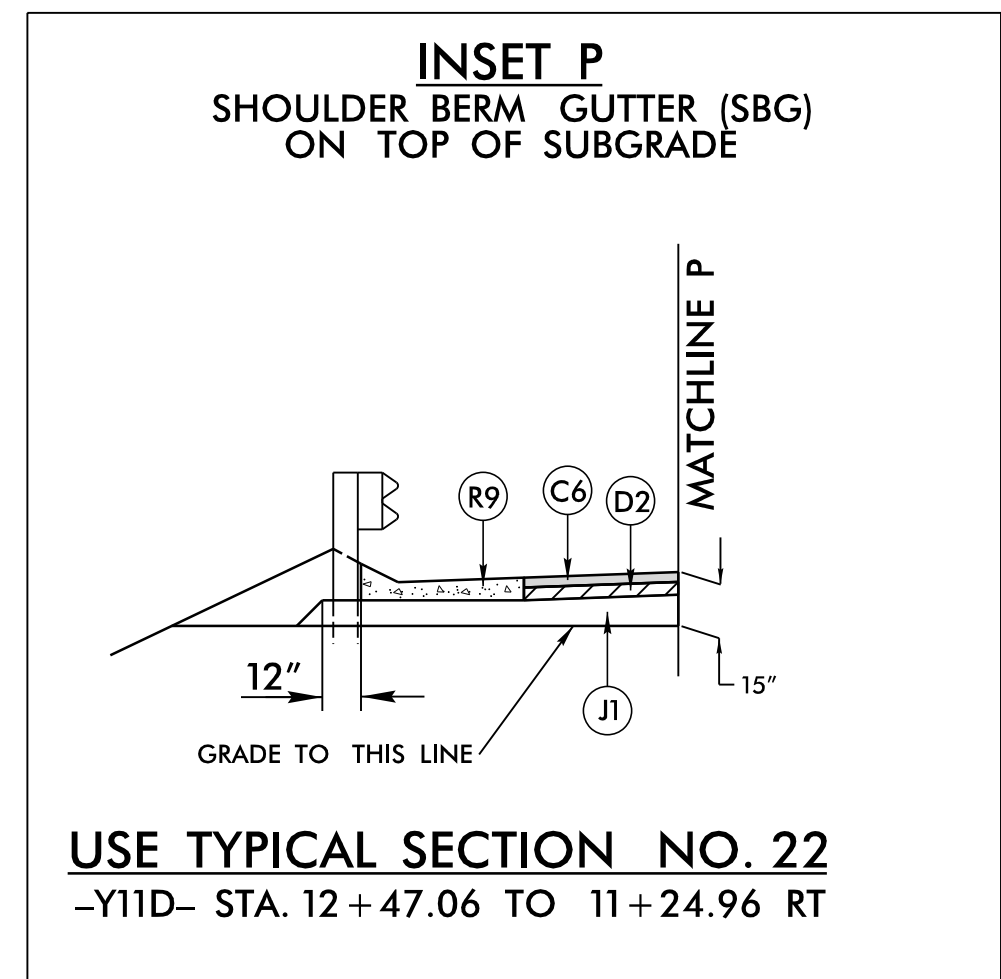


**USE TYPICAL SECTION NO. 20**  
 -Y16- STA. 14+25.00 TO STA. 15+75.00

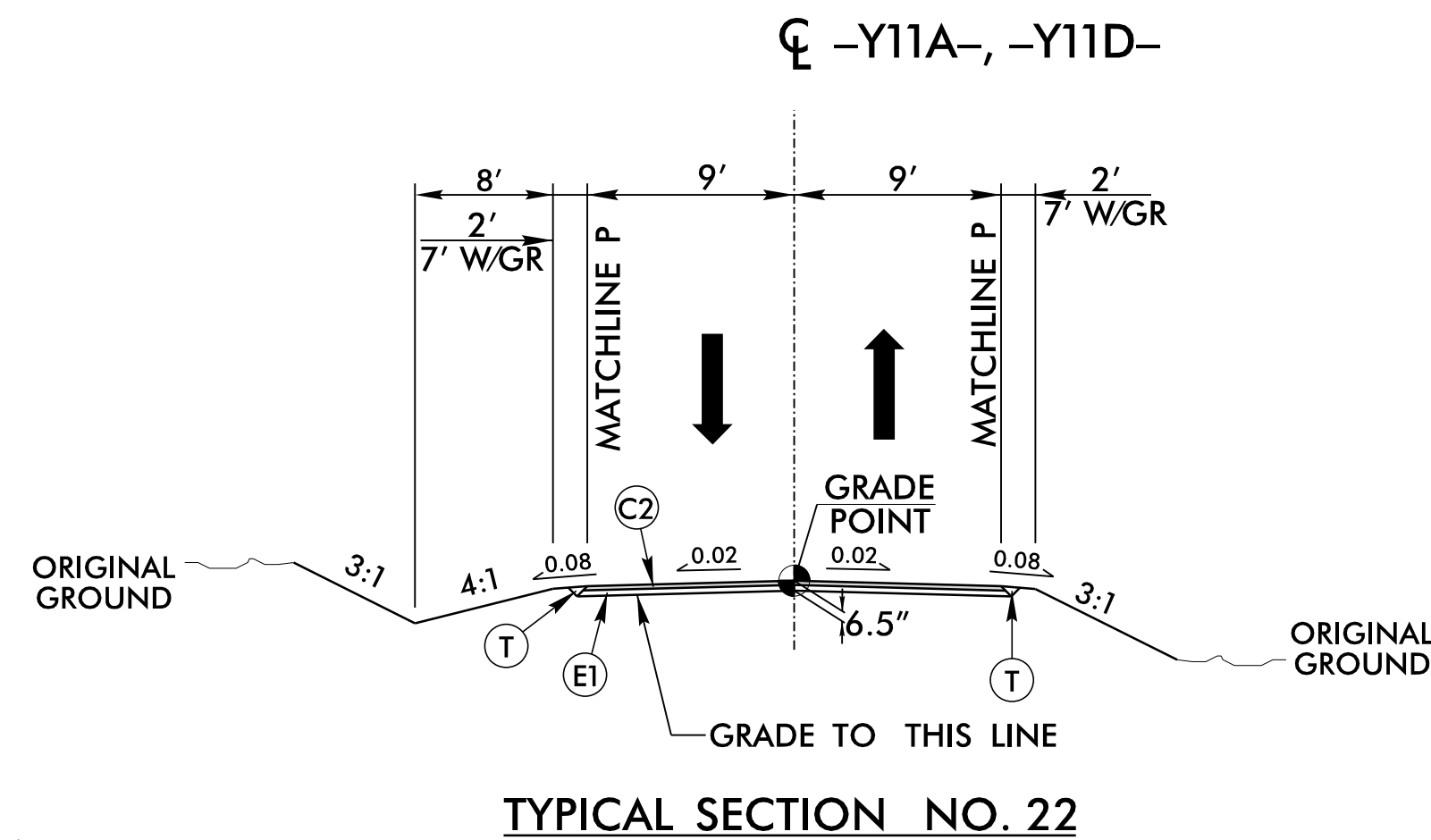
NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



**USE TYPICAL SECTION NO. 21**  
 -Y16- STA. 15+75.00 TO STA. 18+71.79  
 NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



**USE TYPICAL SECTION NO. 22**  
 -Y11D- STA. 12+47.06 TO 11+24.96 RT



**USE TYPICAL SECTION NO. 22**  
 -Y11A- STA. 10+50.00 TO STA. 10+75.00  
 -Y11D- STA. 10+25.00 TO STA. 15+25.90  
 NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211

**NOTES**  
 PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
 SEE PLANS FOR LOCATION OF AUXILIARY LANES, CONCRETE ISLANDS, AND TAPERS.

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	PAVEMENT ENGINEER 
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

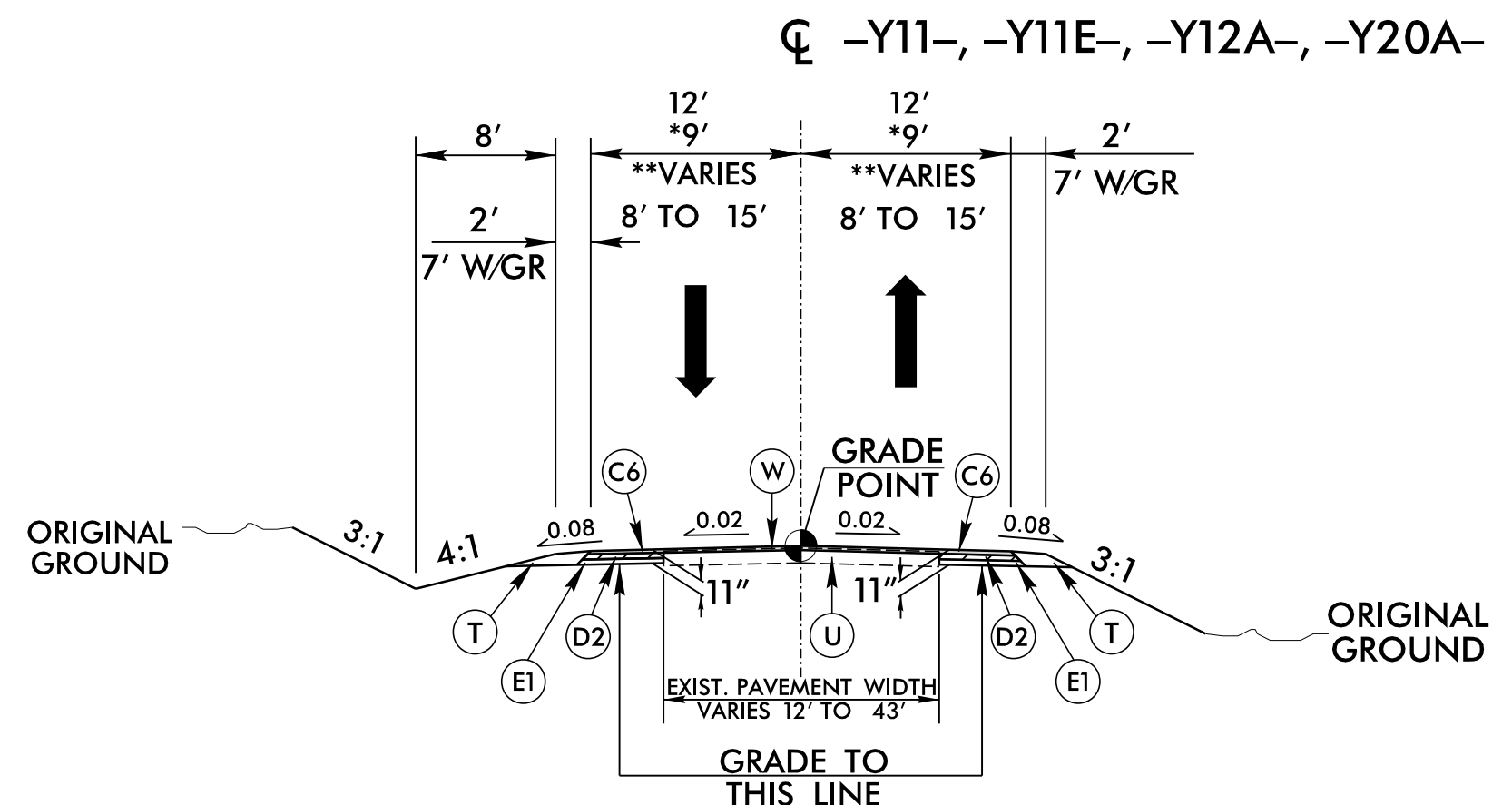
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 ic-cocket

8/17/99

PAVEMENT SCHEDULE	
C3	3" S9.5B
C6	3" S9.5C
D2	4" I19.0C
E1	4" B25.0C
E3	5.5" B25.0C
R1	2'-6" C&G
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

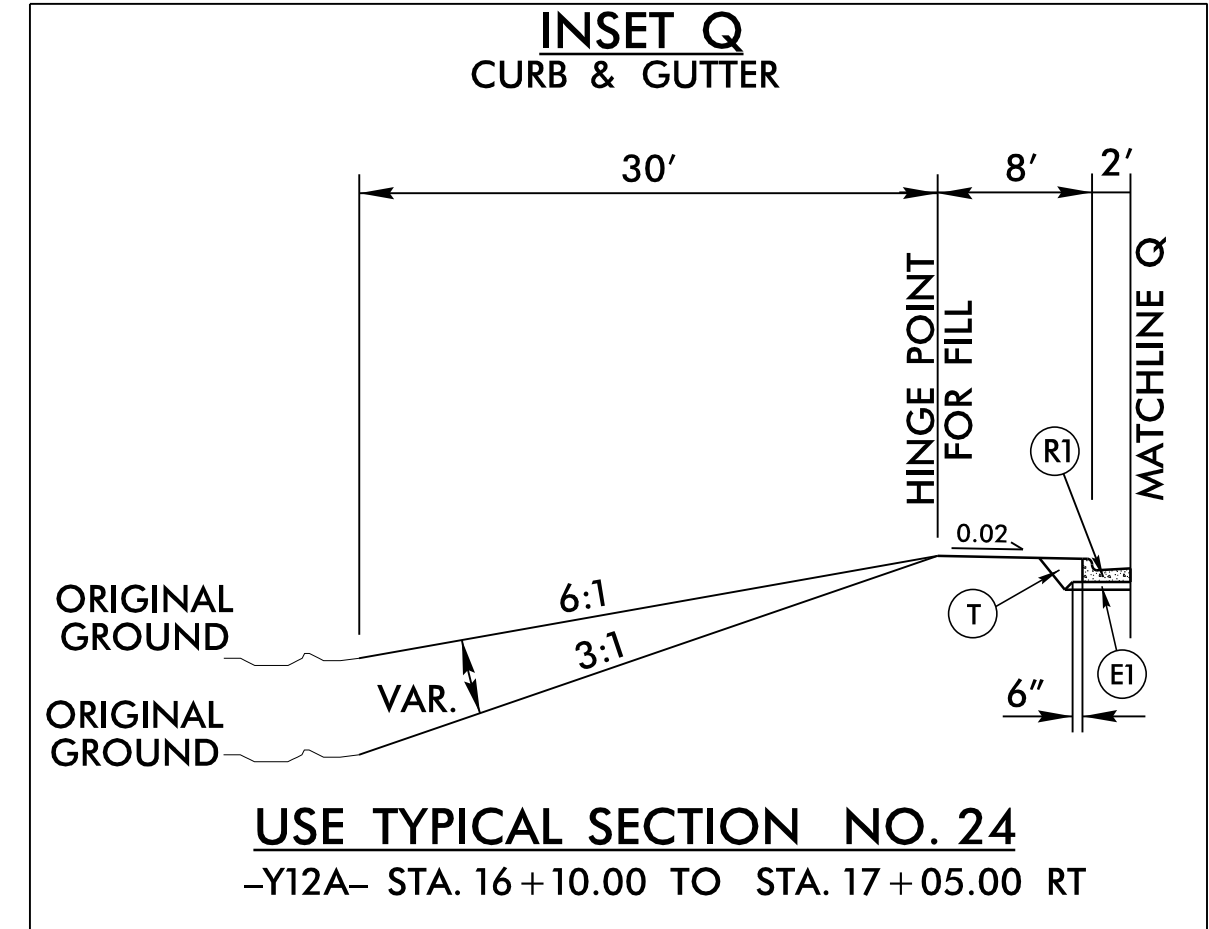


TYPICAL SECTION NO. 23

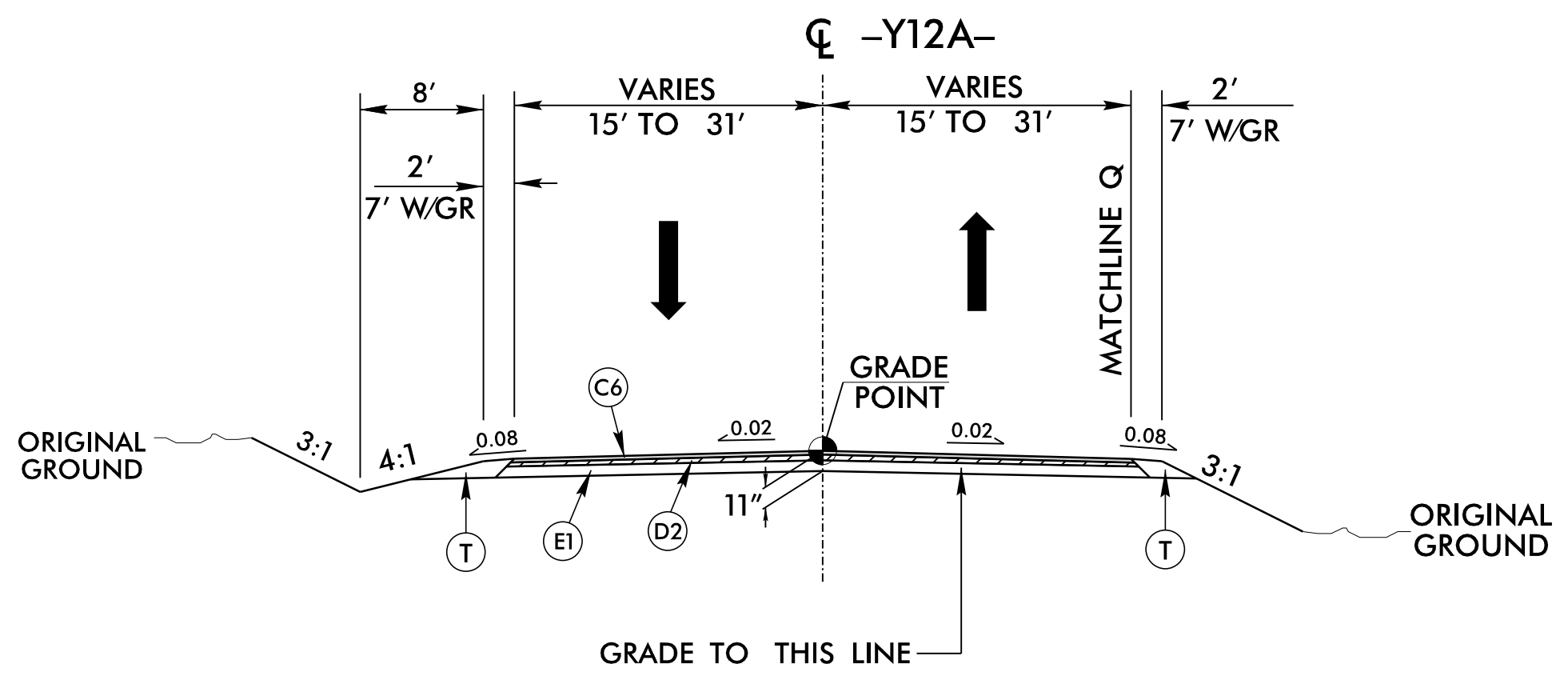
**USE TYPICAL SECTION NO. 23**

-Y11- STA. 10+48.18 TO STA. 12+20.00  
 \*-Y11E- STA. 10+47.44 TO STA. 12+75.00  
 \*\*Y12A- STA. 11+50.00 TO STA. 12+25.00  
 -Y20A- STA. 10+47.00 TO STA. 11+25.00

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



USE TYPICAL SECTION NO. 24  
 -Y12A- STA. 16+10.00 TO STA. 17+05.00 RT

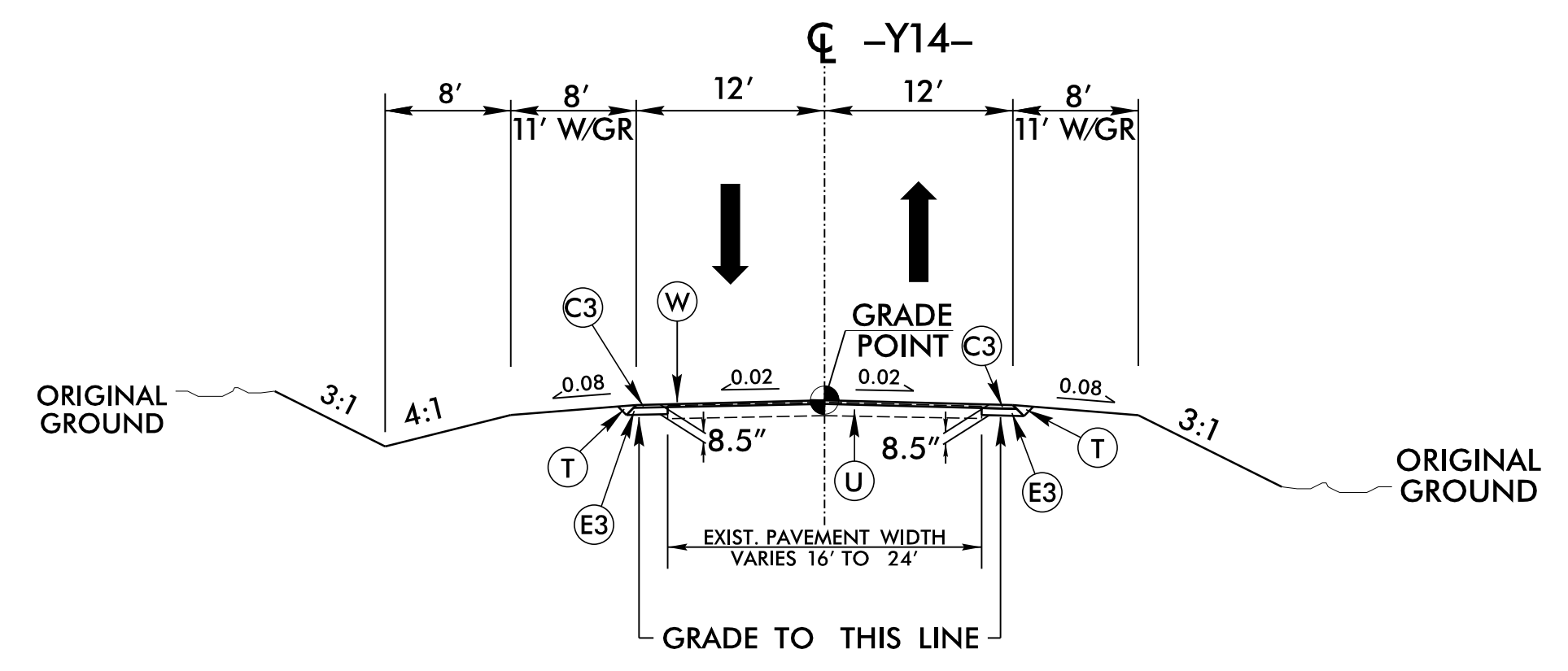


TYPICAL SECTION NO. 24

**USE TYPICAL SECTION NO. 24**

-Y12A- STA. 10+46.49 TO STA. 11+50.00  
 -Y12A- STA. 16+15.00 TO STA. 17+70.89

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



TYPICAL SECTION NO. 25

**USE TYPICAL SECTION NO. 25**

-Y14- STA. 11+20.00 TO STA. 12+25.00

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211

NOTES

PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
 SEE PLANS FOR LOCATION OF AUXILIARY LANES, CONCRETE ISLANDS, AND TAPERS.

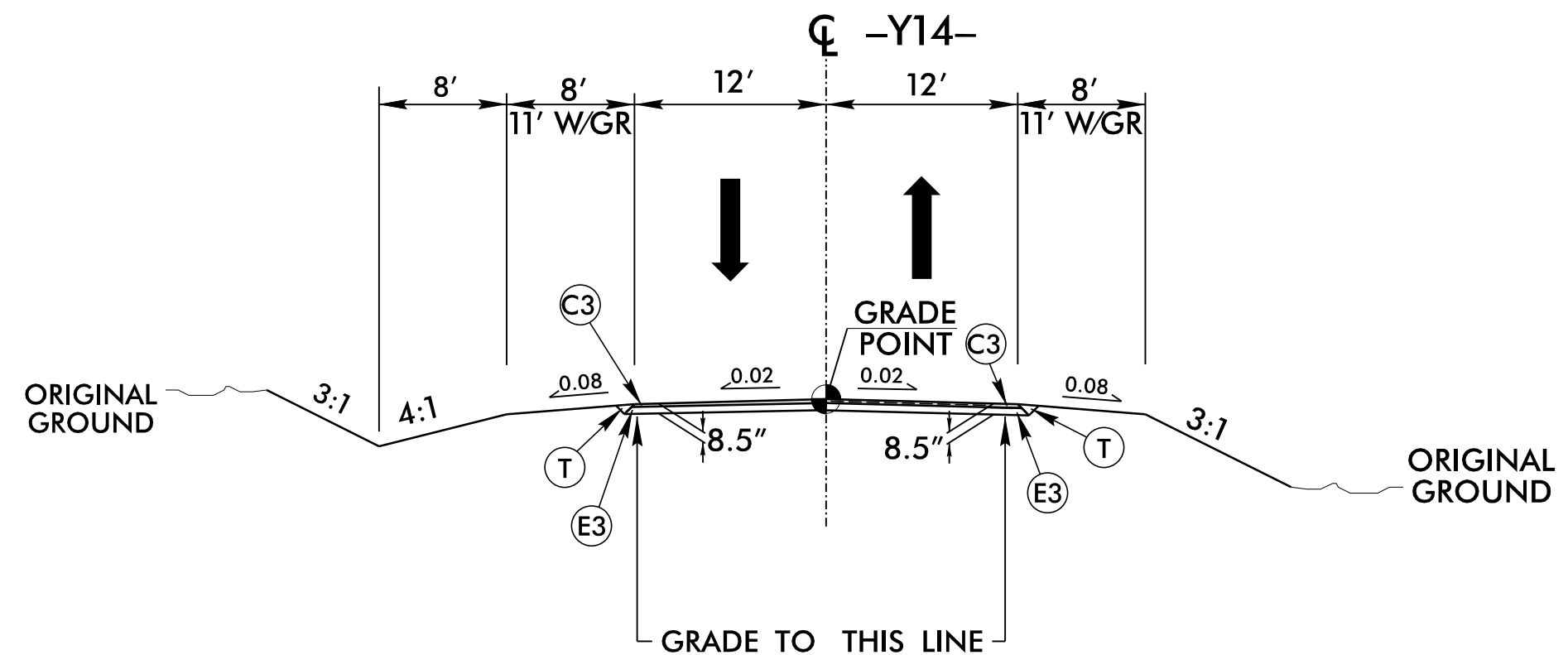
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 ic-cocker



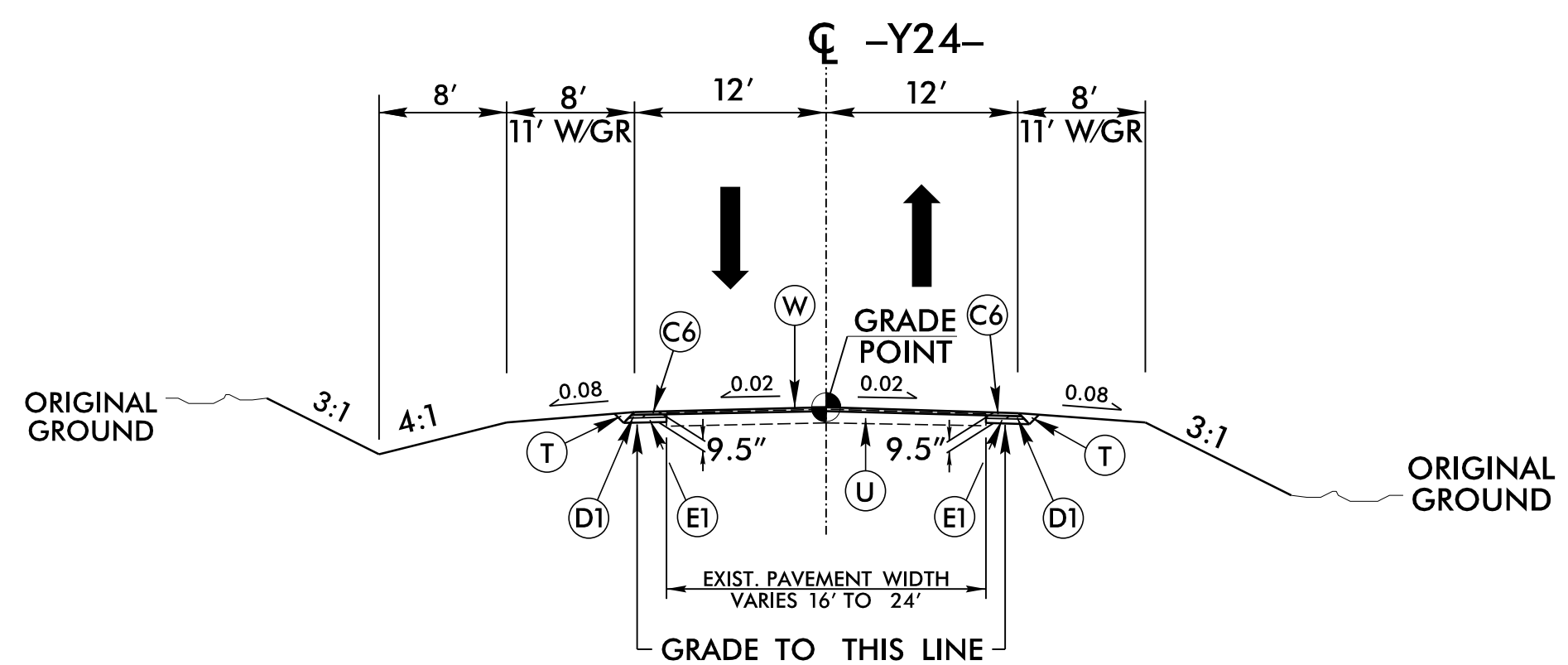
8/17/99

PAVEMENT SCHEDULE	
C2	2.5" S9.5B
C3	3" S9.5B
C6	3" S9.5C
D1	2.5" I19.0C
E1	4" B25.0C
E3	5.5" B25.0C
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING



TYPICAL SECTION NO. 26

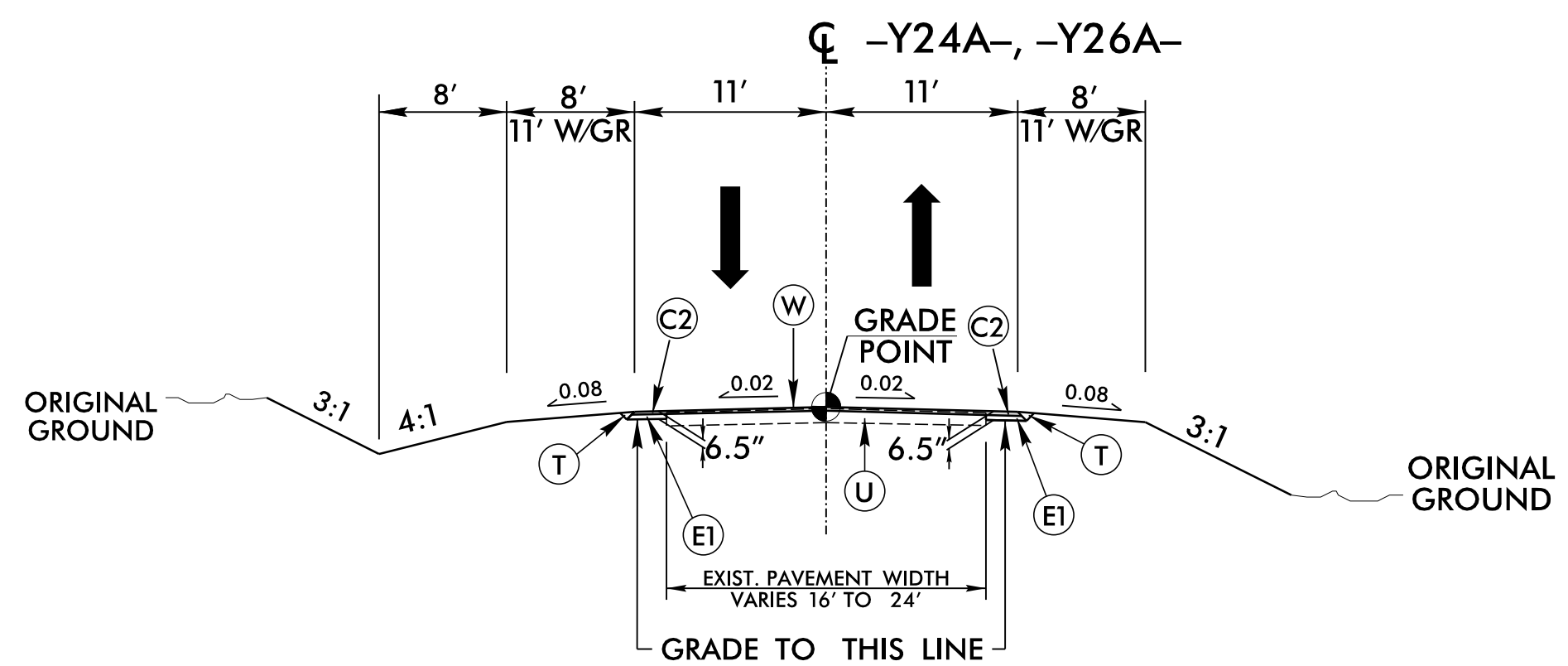
USE TYPICAL SECTION NO. 26  
-Y14- STA. 12+25.00 TO STA. 15+63.31



TYPICAL SECTION NO. 27

USE TYPICAL SECTION NO. 27  
-Y24- STA. 12+20.00 TO STA. 13+75.00

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



TYPICAL SECTION NO. 28

USE TYPICAL SECTION NO. 28  
-Y24A- STA. 10+47.00 TO STA. 12+75.00  
-Y26A- STA. 12+50.00 TO STA. 15+25.22

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211

NOTES  
PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
SEE PLANS FOR LOCATION OF AUXILIARY LANES, CONCRETE ISLANDS, AND TAPERS.

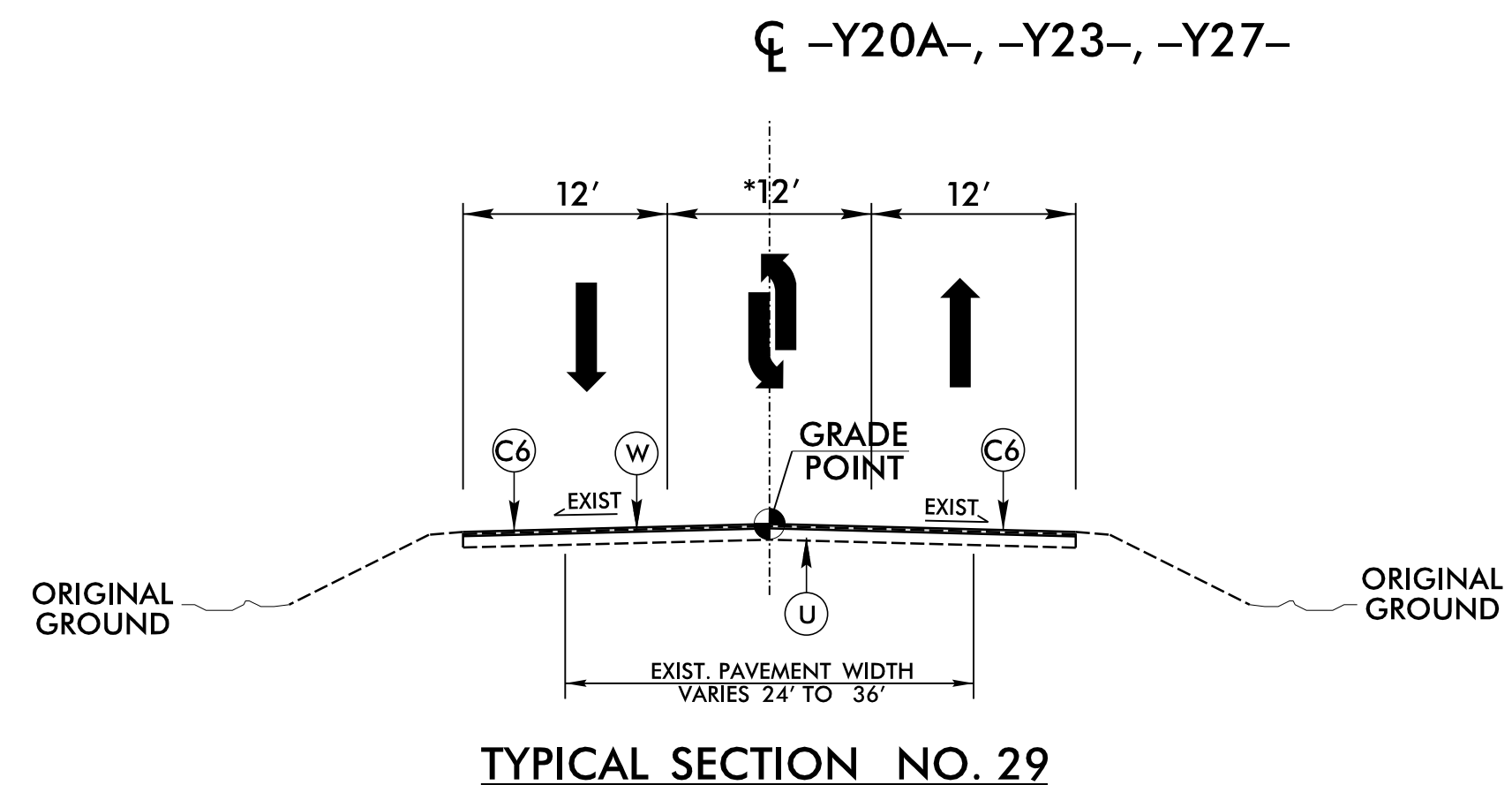
PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

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8/17/99

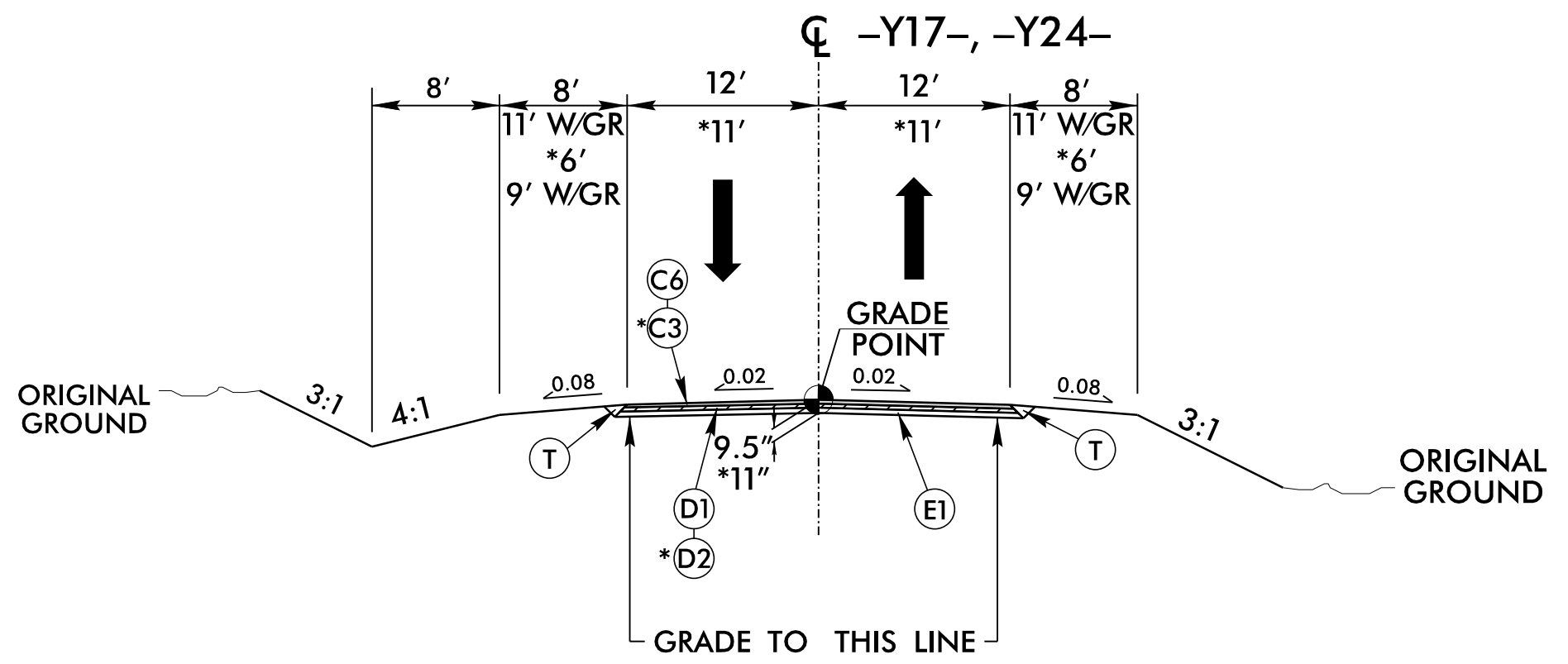
PAVEMENT SCHEDULE	
C2	2.5" S9.5B
C3	3" S9.5B
C6	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
E1	4" B25.0C
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING



TYPICAL SECTION NO. 29

**USE TYPICAL SECTION NO. 29**  
 -Y20A- STA. 11+34.57 TO STA. 11+59.57  
 -Y23- STA. 12+37.00 TO STA. 12+87.00  
 \*-Y27- STA. 9+50.00 TO STA. 10+50.00

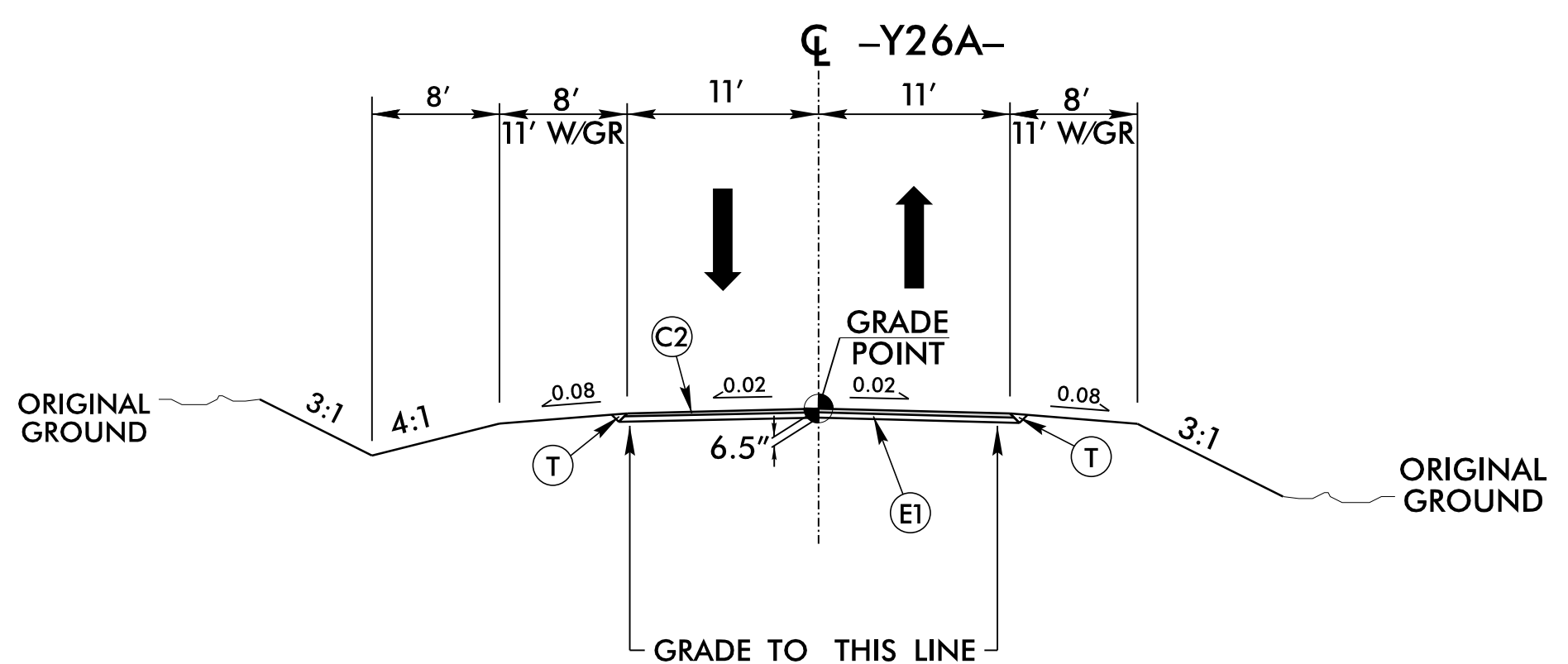
NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



TYPICAL SECTION NO. 30

**USE TYPICAL SECTION NO. 30**  
 \*-Y17- STA. 10+59.03 TO STA. 11+75.00  
 -Y24- STA. 13+75.00 TO STA. 15+24.00

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



TYPICAL SECTION NO. 31

**USE TYPICAL SECTION NO. 31**  
 -Y26A- STA. 10+29.60 TO STA. 12+50.00

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211

**NOTES**  
 PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
 SEE PLANS FOR LOCATION OF AUXILIARY LANES, CONCRETE ISLANDS, AND TAPERS.

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

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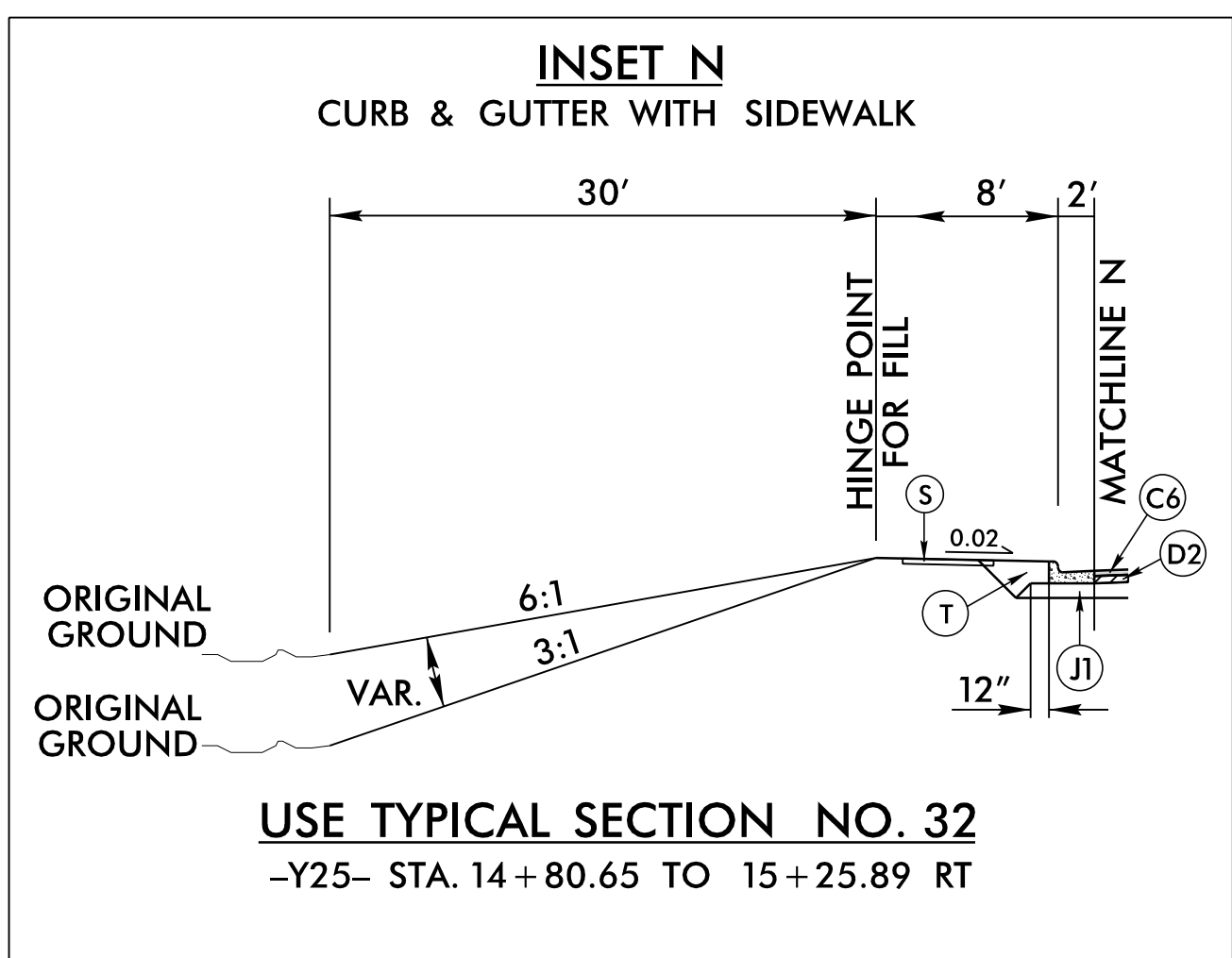
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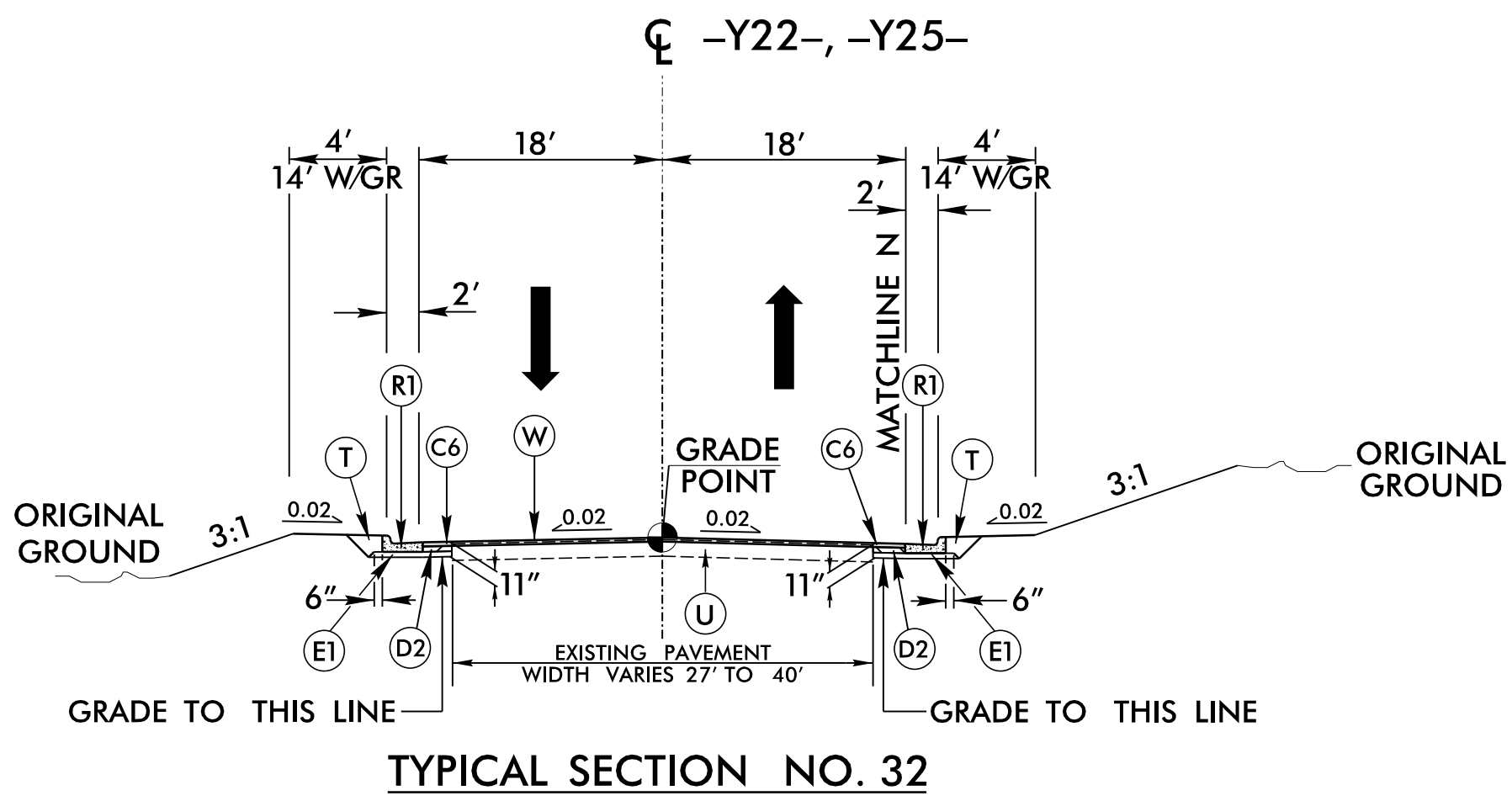
8/17/99

PAVEMENT SCHEDULE

C1	1.5" S9.5B
C6	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
E1	4" B25.0C
J1	8" ABC
R1	2'-6" C&G
S	4" CONC. SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING



**USE TYPICAL SECTION NO. 32**  
-Y25- STA. 14+80.65 TO 15+25.89 RT

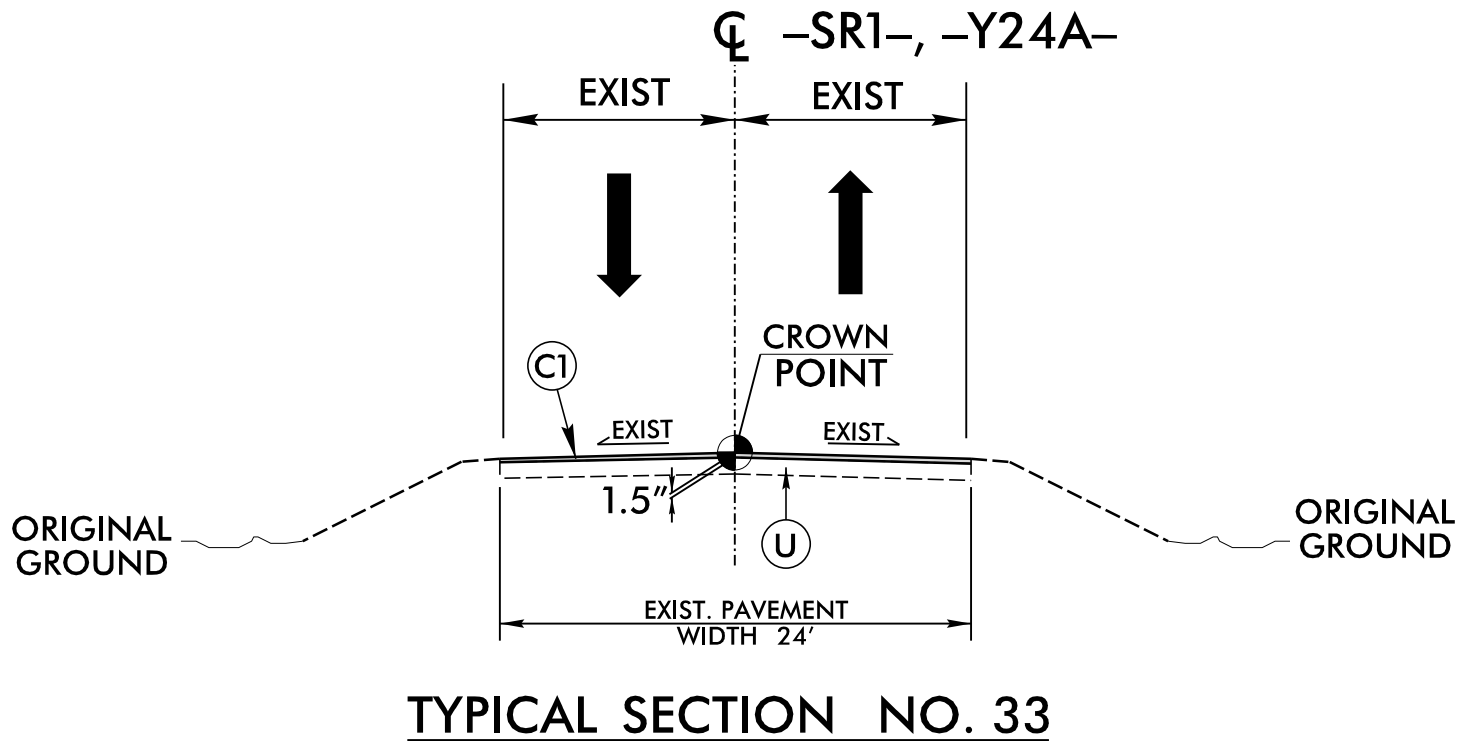


**TYPICAL SECTION NO. 32**

**USE TYPICAL SECTION NO. 32**

-Y22- STA. 10+15.00 TO STA. 11+98.92  
-Y25- STA. 13+65.00 TO STA. 15+51.93

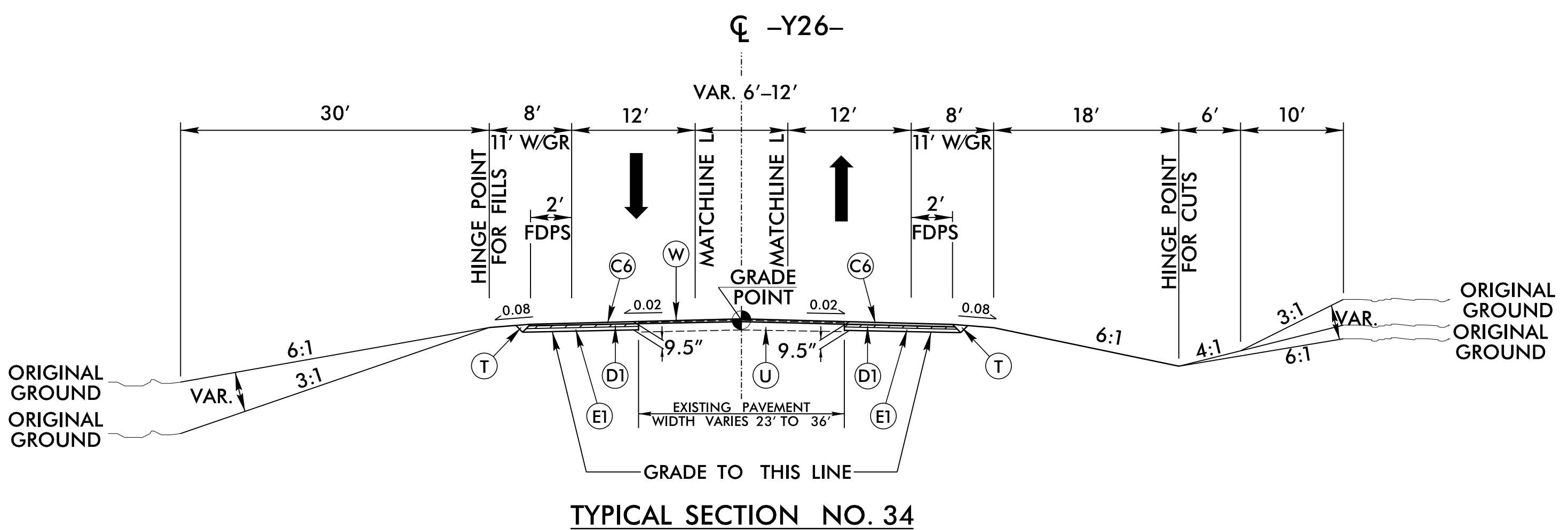
NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



**TYPICAL SECTION NO. 33**

**USE TYPICAL SECTION NO. 33**

-SRI- STA. 10+75.00 TO STA. 15+00.00  
-Y24A- STA. 12+75.00 TO STA. 16+00.00

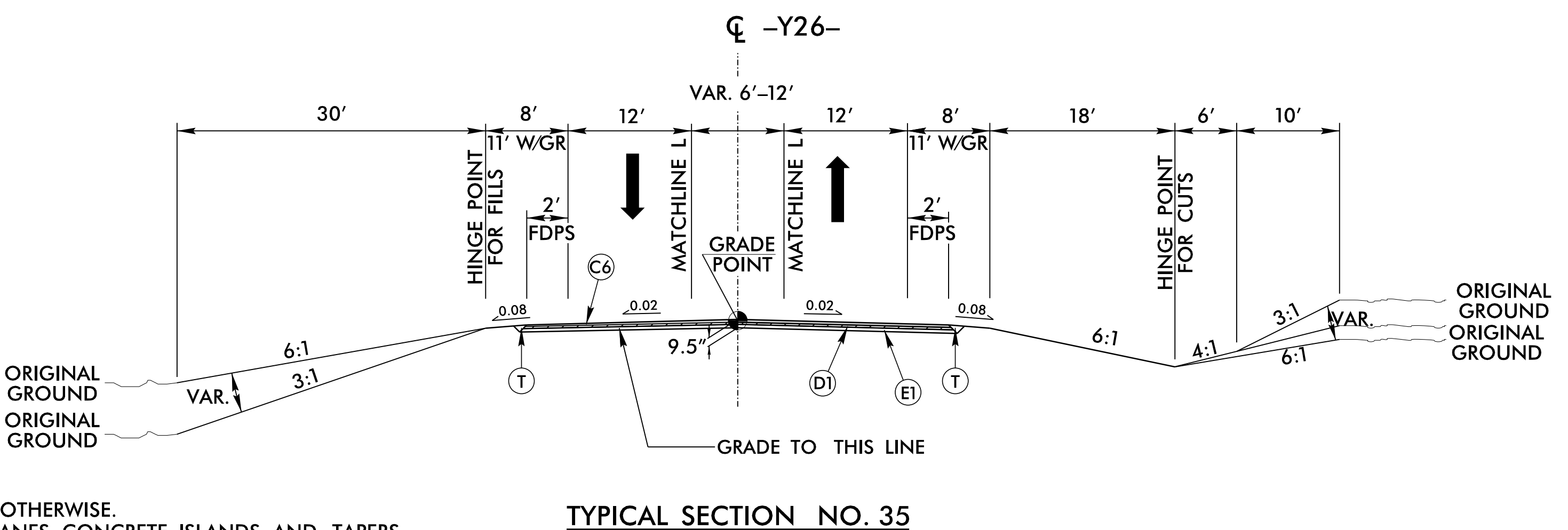


**TYPICAL SECTION NO. 34**

**USE TYPICAL SECTION NO. 34**

-Y26- STA. 12+00.00 TO STA. 14+75.00  
-Y26- STA. 22+50.00 TO STA. 25+50.00

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211



**TYPICAL SECTION NO. 35**

**USE TYPICAL SECTION NO. 35**

-Y26- STA. 14+75.00 TO STA. 22+50.00

NOTE: LANE WIDTH INCREASES TO 15' FROM PROPOSED WIDTH AT INTERSECTION WITH NC 211

NOTES

PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
SEE PLANS FOR LOCATION OF AUXILIARY LANES, CONCRETE ISLANDS, AND TAPERS.

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

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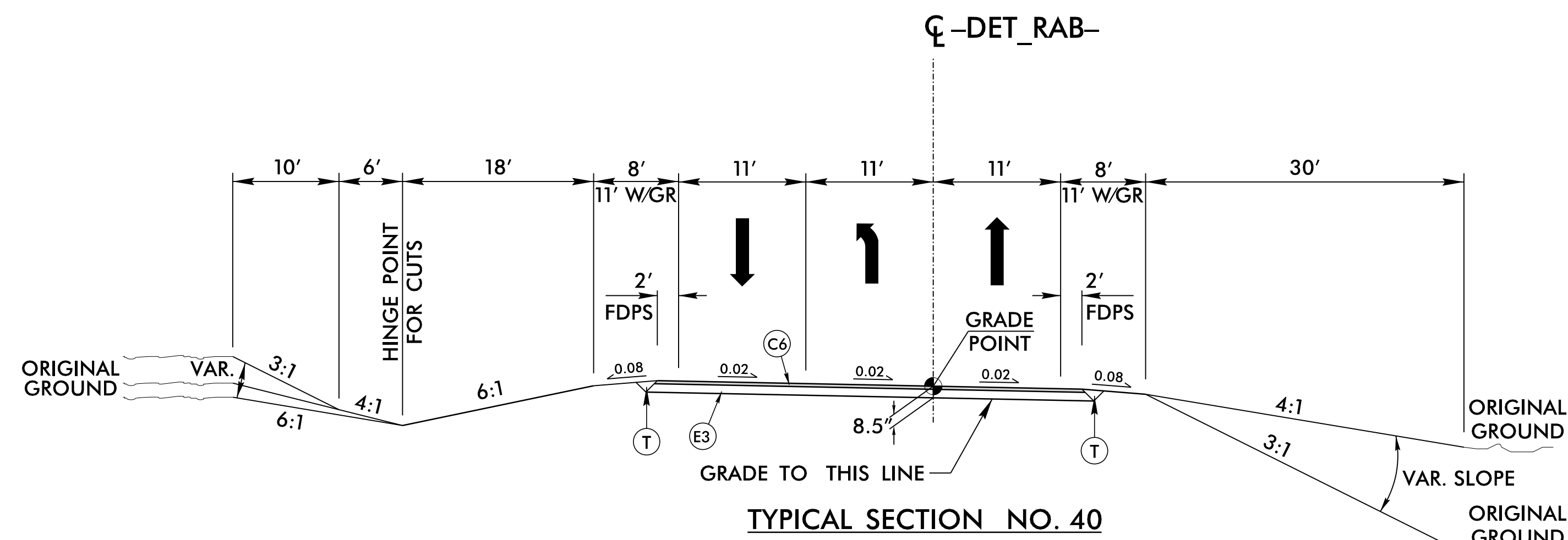


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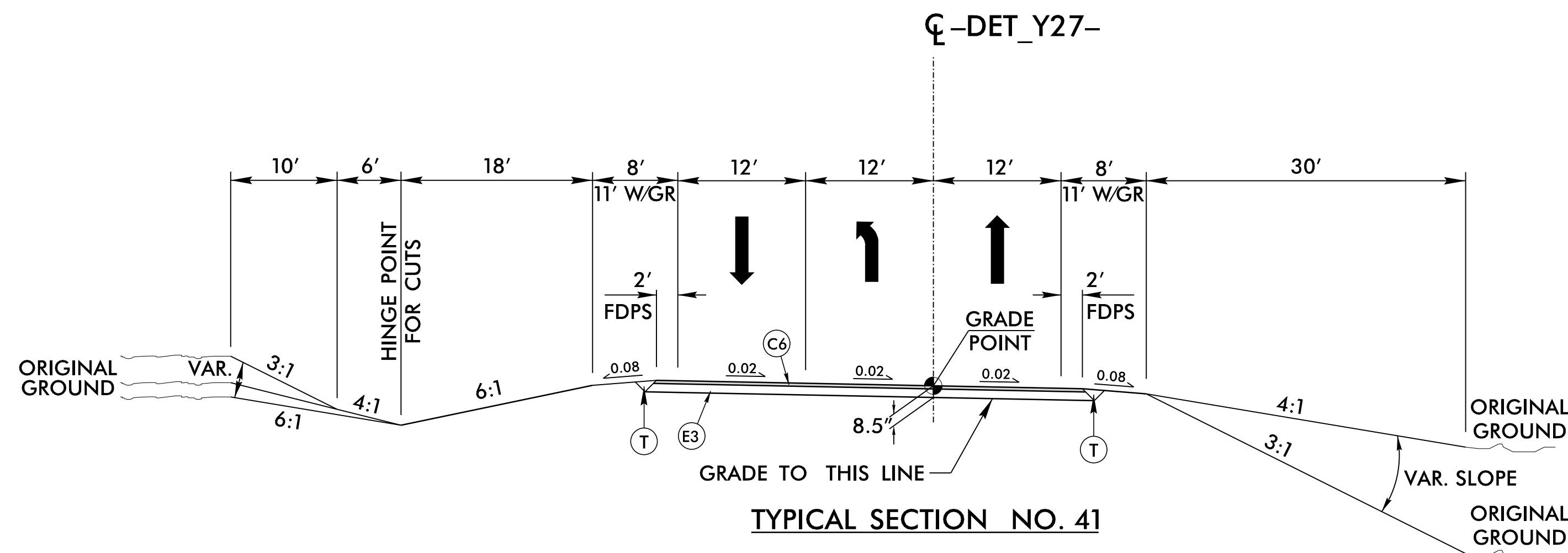
PAVEMENT SCHEDULE

C6	3" S9.5C
E3	5.5" B25.0C
T	EARTH MATERIAL
U	EXIST. PAVEMENT

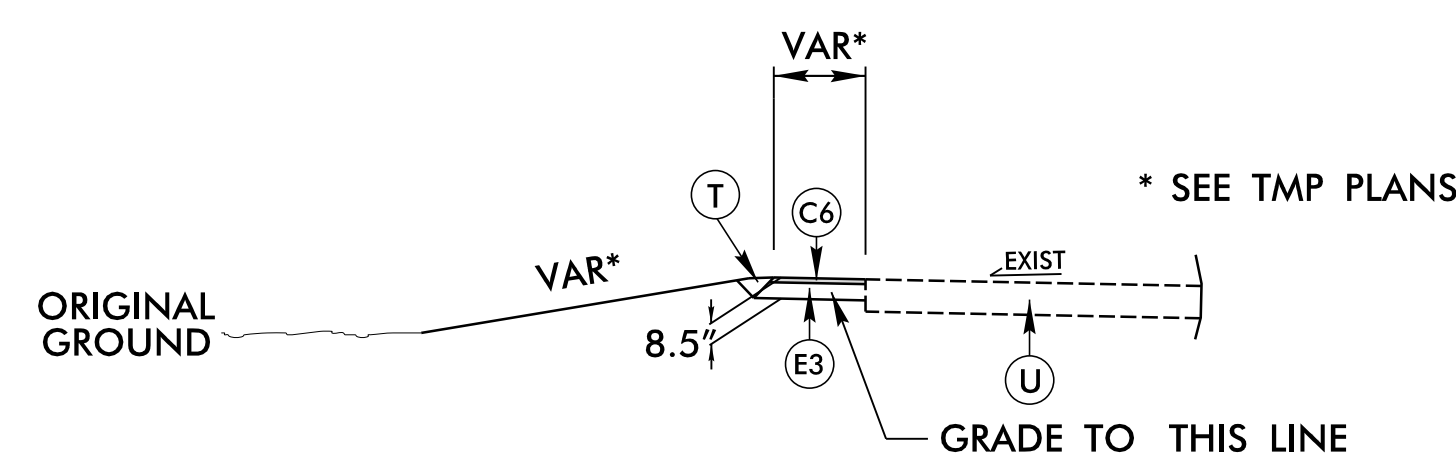
PROJECT REFERENCE NO. R-5709C	SHEET NO. 2A-15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	



USE TYPICAL SECTION NO. 40  
-DET\_RAB- STA. 11+40.00 - 26+70.00



USE TYPICAL SECTION NO. 41  
-DET\_Y27- STA. 10+70.00 - 16+41.13



**TEMPORARY PAVEMENT DETAIL**  
(SEE TMP PLANS FOR MORE INFORMATION)

- L- STA. 368+20 TO 374+44
- L- STA. 377+31 TO 382+03
- L- STA. 400+50 TO 403+33
- L- STA. 424+50 TO 426+00
- L- STA. 435+36 TO 441+55
- L- STA. 442+61 TO 443+75
- L- STA. 447+22 TO 454+61
- L- STA. 462+51 TO 475+26
- L- STA. 527+10 TO 528+09
- L- STA. 532+00 TO 536+89
- L- STA. 552+67 TO 553+32
- L- STA. 572+55 TO 586+97
- L- STA. 607+08 TO 631+60
- L- STA. 671+19 TO 671+48
- L- STA. 710+15 TO 717+00
- L- STA. 742+80 TO 749+35
- L- STA. 749+71 TO 758+50
- L- STA. 786+92 TO 788+32
- L- STA. 793+00 TO 818+00

NOTES

PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.  
SEE PLANS FOR LOCATION OF AUXILIARY LANES, CONCRETE ISLANDS, AND TAPERS.

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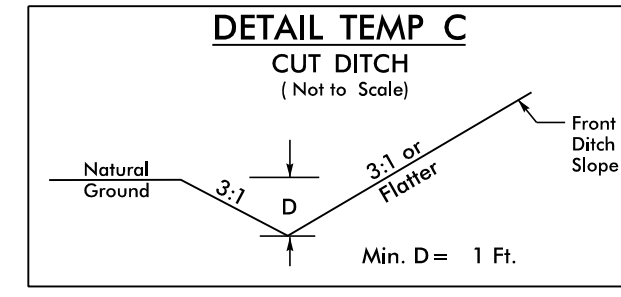
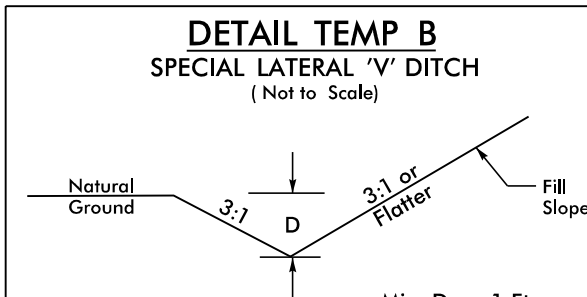
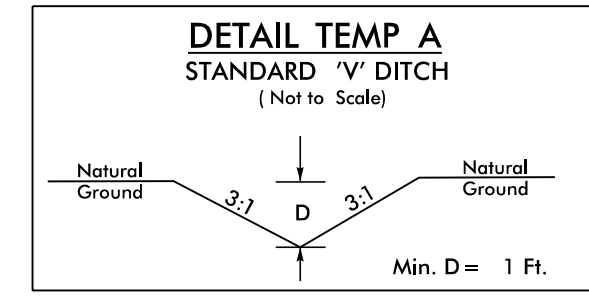
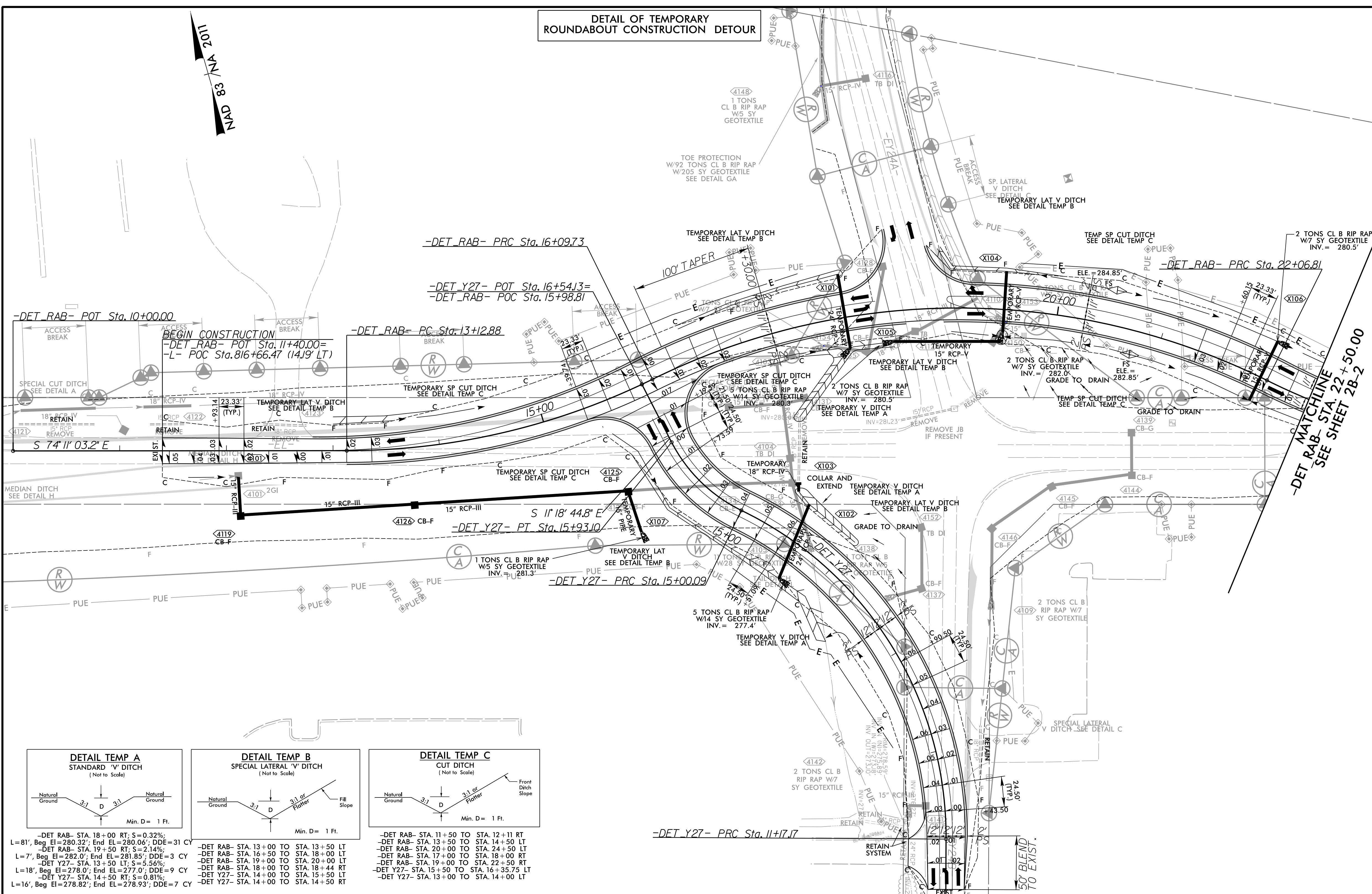
8/17/99

### DETAIL OF TEMPORARY ROUNDABOUT CONSTRUCTION DETOUR

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-1
R/W SHEET NO. R-5709 64	HYDRAULICS ENGINEER R-5709 64
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 040878 Mary E. Mays, P.E.	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 51640 Courtland Hoffman, P.E.

10/15/2024  
10/14/2024

**DOCUMENT NOT CONSIDERED FINAL  
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-DET\_RAB- STA. 18+00 RT, S=0.32%  
L=81', Beg El=280.32', End El=280.06'; DDE=31 CY  
-DET\_RAB- STA. 19+50 RT, S=2.14%  
L=7', Beg El=282.0', End El=281.85'; DDE=3 CY  
-DET\_Y27- STA. 13+50 LT, S=5.56%  
L=18', Beg El=278.0', End El=277.0'; DDE=9 CY  
-DET\_Y27- STA. 14+50 RT, S=0.81%  
L=16', Beg El=278.82', End El=278.93'; DDE=7 CY

-DET\_RAB- STA. 13+00 TO STA. 13+50 LT  
-DET\_RAB- STA. 16+50 TO STA. 18+00 LT  
-DET\_RAB- STA. 19+00 TO STA. 20+00 LT  
-DET\_RAB- STA. 18+00 TO STA. 18+44 RT  
-DET\_Y27- STA. 14+00 TO STA. 15+50 LT  
-DET\_Y27- STA. 14+00 TO STA. 14+50 RT

**TEMPORARY DRAINAGE FOR TRAFFIC PHASING**

- DURING PHASE 1 ROADWAY CONSTRUCTION, INSTALL PIPE 4101 AND TIE EXISTING DITCH TO IT, INSTALL BOX 4119, BOX 4126, BOX 4125, PIPE 4119, PIPE 4126 AND OUTLET WITH TEMPORARY 15" PIPE X107

- INSTALL TEMPORARY PIPE X101 AND TEMPORARY DITCHES UPSTREAM AND DOWNSTREAM OF IT

- COLLAR AND EXTEND EXISTING PIPE X103 7' WITH 18" RCP-IV AND INSTALL TEMPORARY PIPE X102, INSTALL ALL DITCHES UPSTREAM AND DOWNSTREAM OF PIPE X102

- INSTALL TEMPORARY PIPE X104 AND X105 AND TEMPORARY DITCHES UPSTREAM AND DOWNSTREAM OF THEM

- INSTALL TEMPORARY PIPE X106 AND TEMPORARY DITCHES UPSTREAM AND DOWNSTREAM OF IT, INSTALL FALSE SUMP AT STATION -DET\_RAB- STA. 20+50 LT

**-DET\_RAB-**

PI Sta 14+63.94 Δ = 26° 09' 58.2" (LT) D = 8' 48" 53.0" L = 296.85' T = 151.06' R = 650.00' SE = 0.03 V = 35MPH	PI Sta 19+31.20 Δ = 52° 37' 52.2" (RT) D = 8' 48" 53.0" L = 597.08' T = 321.47' R = 650.00' SE = 0.03 V = 35MPH	PI Sta 23+60.33 Δ = 26° 34' 40.8" (LT) D = 8' 48" 53.0" L = 301.52' T = 153.52' R = 650.00' SE = 0.03 V = 35MPH
--	--	--

**-DET\_Y27-**

PI Sta 10+58.58 Δ = 0° 17' 33.1" (RT) D = 0' 14" 58.8" L = 117.17' T = 58.58' R = 22,948.65' SE = EXIST.	PI Sta 13+31.81 Δ = 64° 31' 42.1" (LT) D = 16' 51" 06.1" L = 382.92' T = 214.64' R = 340.00' SE = 0.03 V = 35MPH	PI Sta 15+48.28 Δ = 37° 00' 30.9" (RT) D = 39' 47" 19.4" L = 93.01' T = 48.19' R = 144.00' SE = 0.03 V = 25MPH (Stop Cond.)
--	---	--

**BEGIN CONSTRUCTION**  
-DET\_Y27- POC Sta. 10+70.00

-DET\_Y27- PC Sta. 10+00.00

FOR -L- PLAN SEE SHT. 41

FOR -DET\_RAB- AND -DET\_Y27- PROFILES, SEE SHT. 2B-1A

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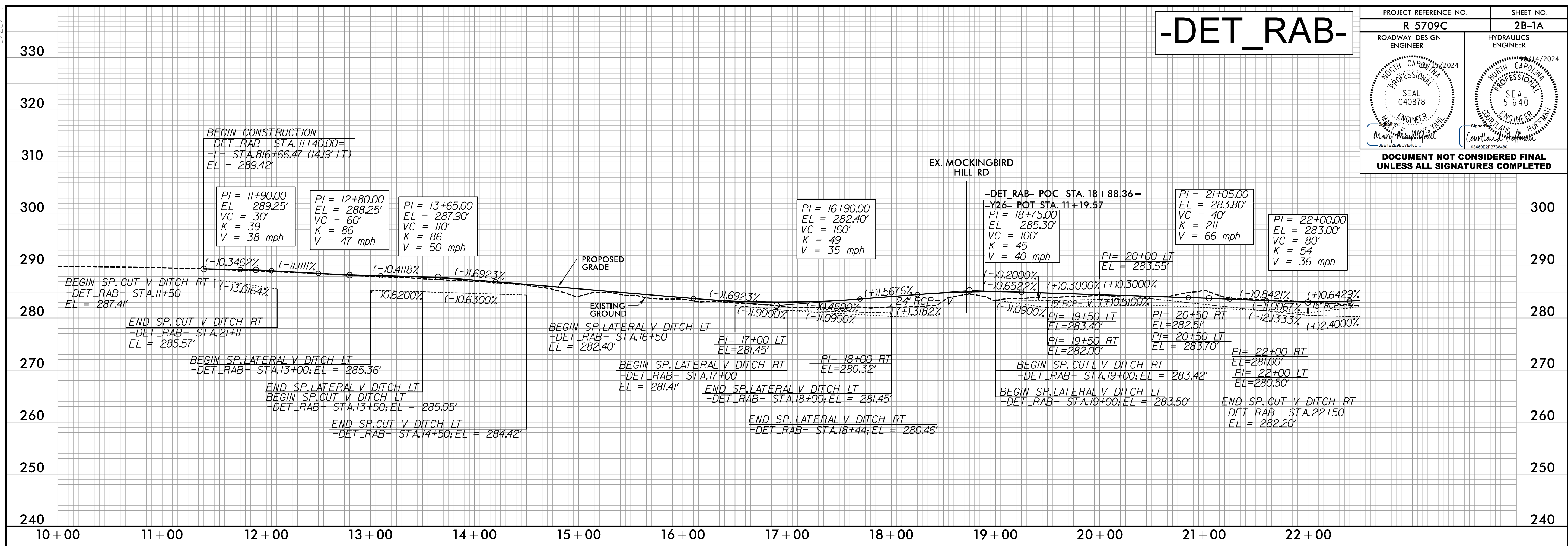


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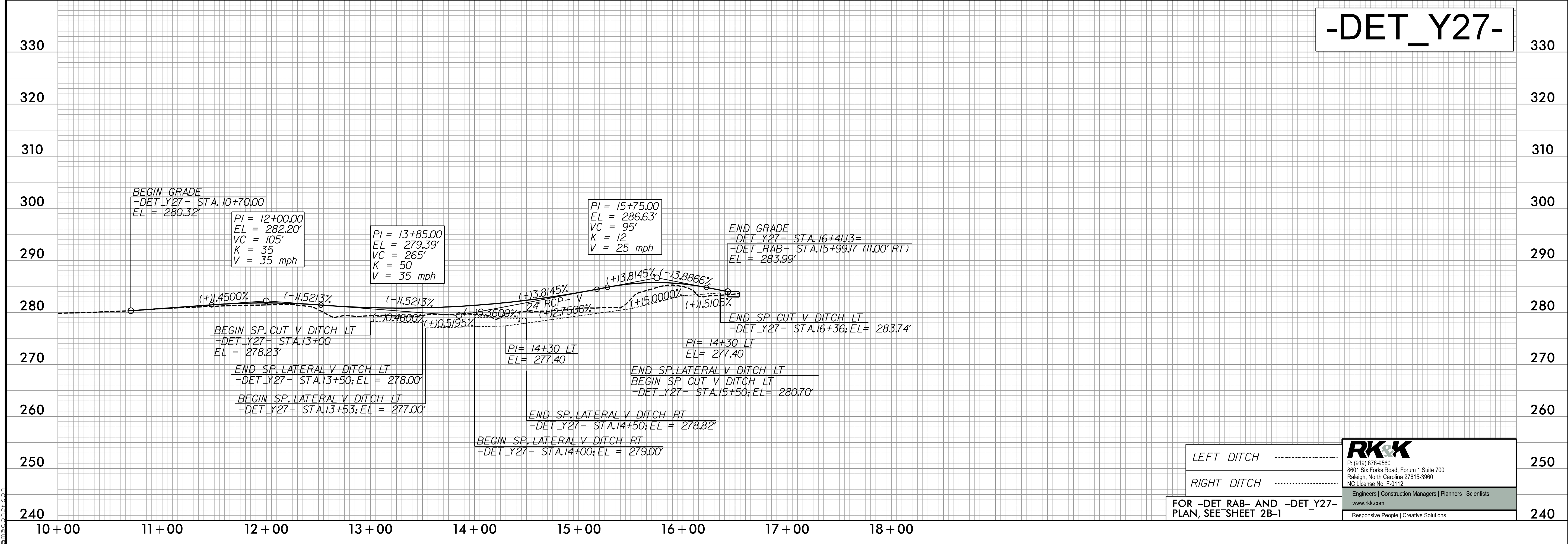
# -DET\_RAB-

PROJECT REFERENCE NO. <b>R-5709C</b>	SHEET NO. <b>2B-1A</b>
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

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



# -DET\_Y27-



LEFT DITCH	
RIGHT DITCH	
FOR -DET_RAB- AND -DET_Y27- PLAN, SEE SHEET 2B-1	

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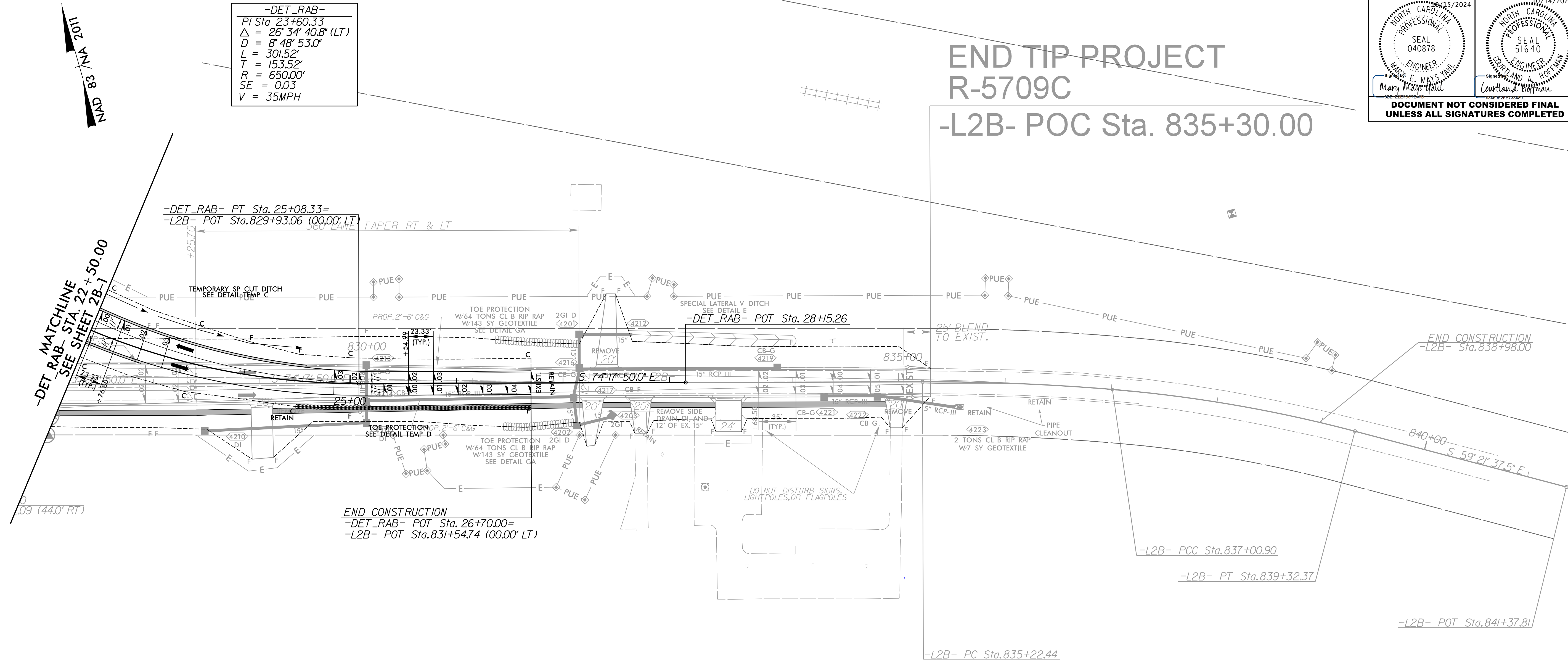
DETAIL OF TEMPORARY  
ROUNDBOUT CONSTRUCTION DETOUR

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-2
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 040878 Mary Nease Hall	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 51640 Curtland Hoffman

DATE: 8/15/2024

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

END TIP PROJECT  
R-5709C  
-L2B- POC Sta. 835+30.00



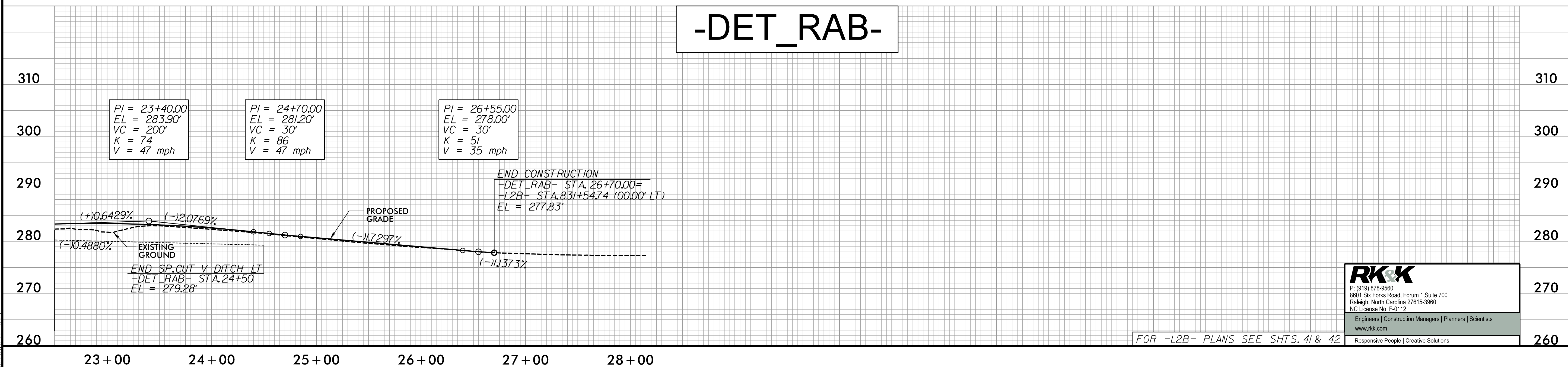
-DET\_RAB-  
 PI Sta 23+60.33  
 $\Delta = 26^\circ 34' 40.8''$  (LT)  
 $D = 8^\circ 48' 53.0''$   
 $L = 301.52'$   
 $T = 153.52'$   
 $R = 650.00'$   
 $SE = 0.03$   
 $V = 35$  MPH

-DET\_RAB- MATCHLINE  
 SEE SHEET 2B-1  
 STA. 22+50.00

-DET\_RAB- PT Sta. 25+08.33=  
 -L2B- POT Sta. 829+93.06 (00.00' LT)

END CONSTRUCTION  
 -DET\_RAB- POT Sta. 26+70.00=  
 -L2B- POT Sta. 831+54.74 (00.00' LT)

-DET\_RAB-



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FOR -L2B- PLANS SEE SHTS. 41 & 42

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amc













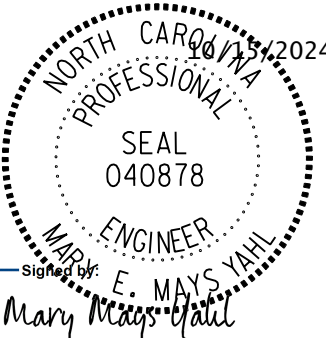






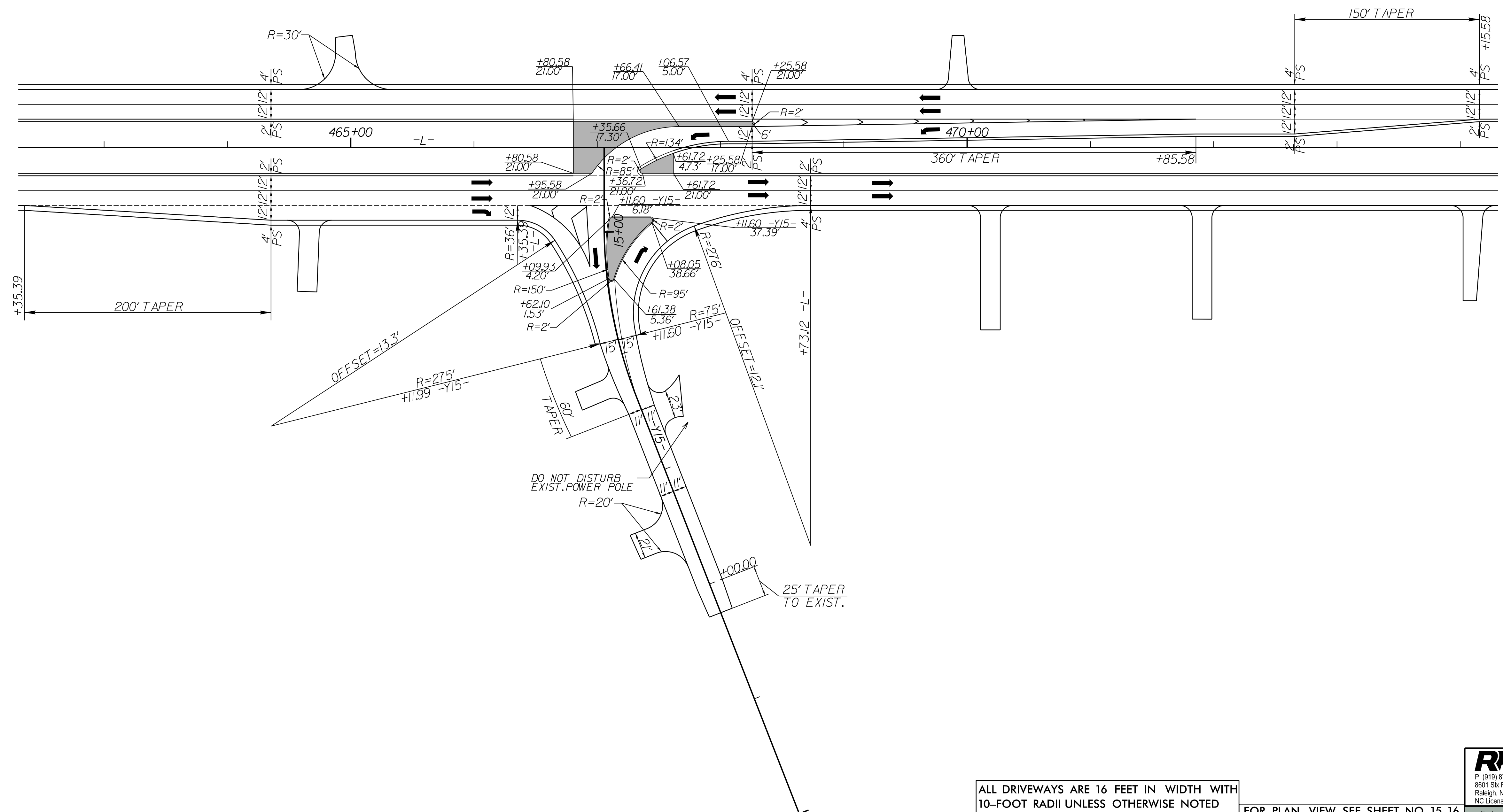


8/17/99

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
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# -L- & -Y15- INTERSECTION DETAIL

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ic-cocker

ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED  
MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

FOR PLAN VIEW, SEE SHEET NO. 15-16  
FOR -L- PROFILE, SEE SHEET NO. 52  
FOR -Y15- PROFILE, SEE SHEET NO. 69

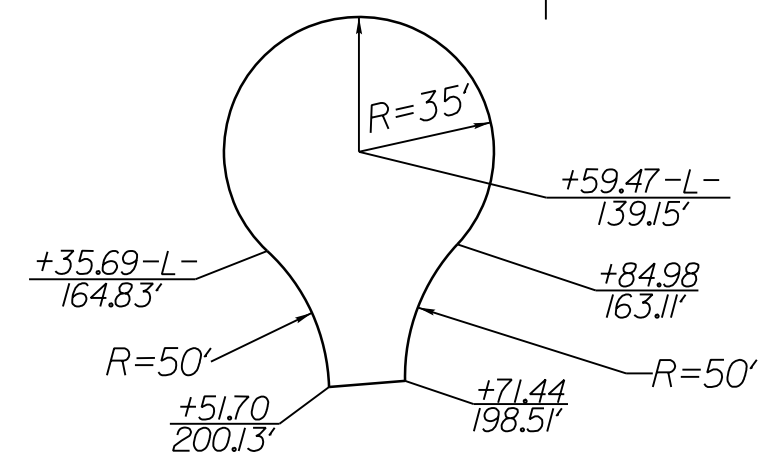
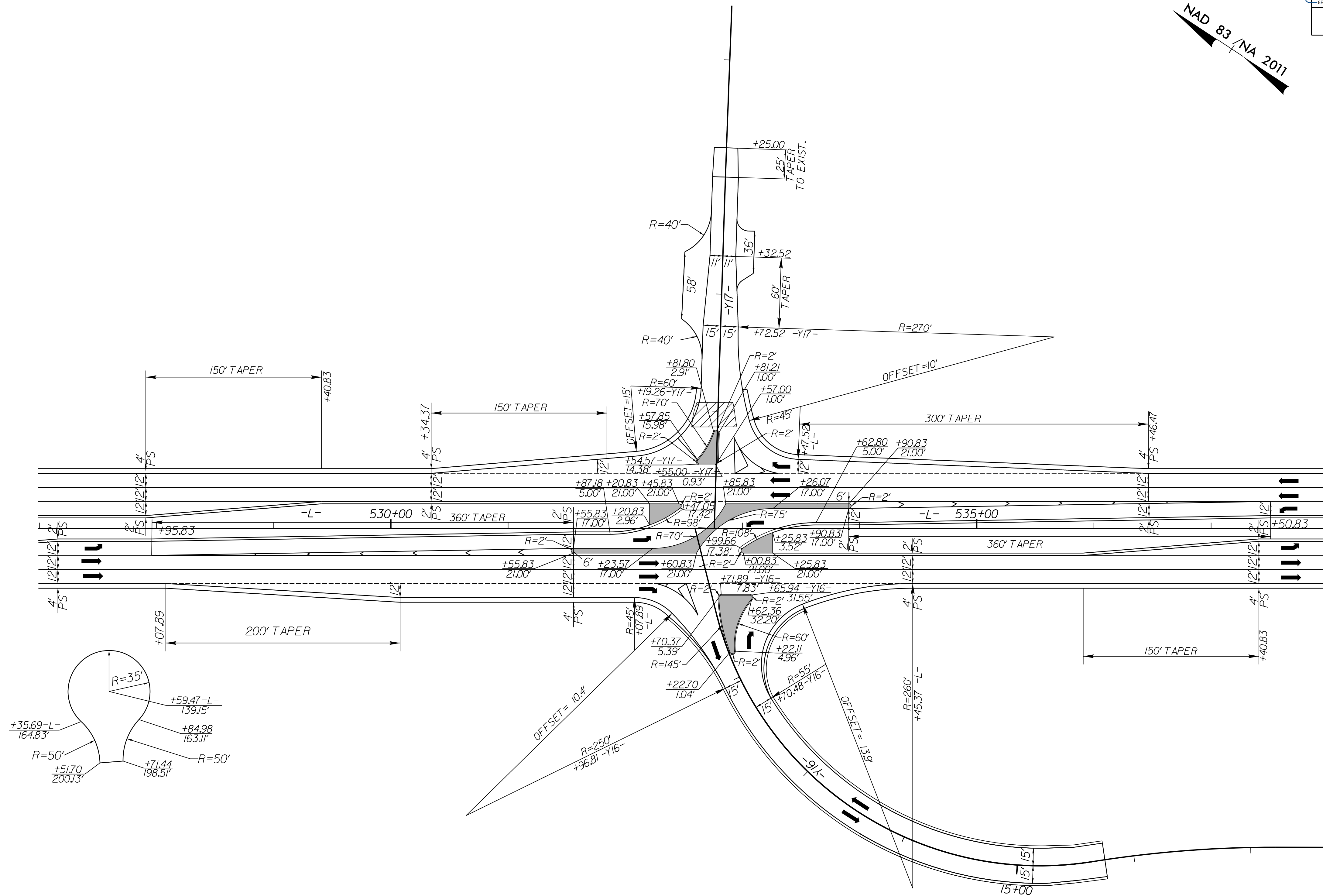
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# -L- & -Y16- / -L- & -Y17- INTERSECTION DETAIL

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

NAD 83 / NA 2011



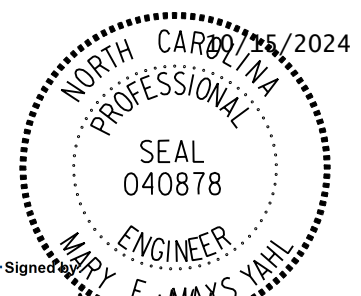
ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED  
MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

FOR PLAN VIEW, SEE SHEET NO. 20  
FOR -L- PROFILE, SEE SHEET NO. 54  
FOR -Y16- PROFILE, SEE SHEET NO. 69  
FOR -Y17- PROFILE, SEE SHEET NO. 69

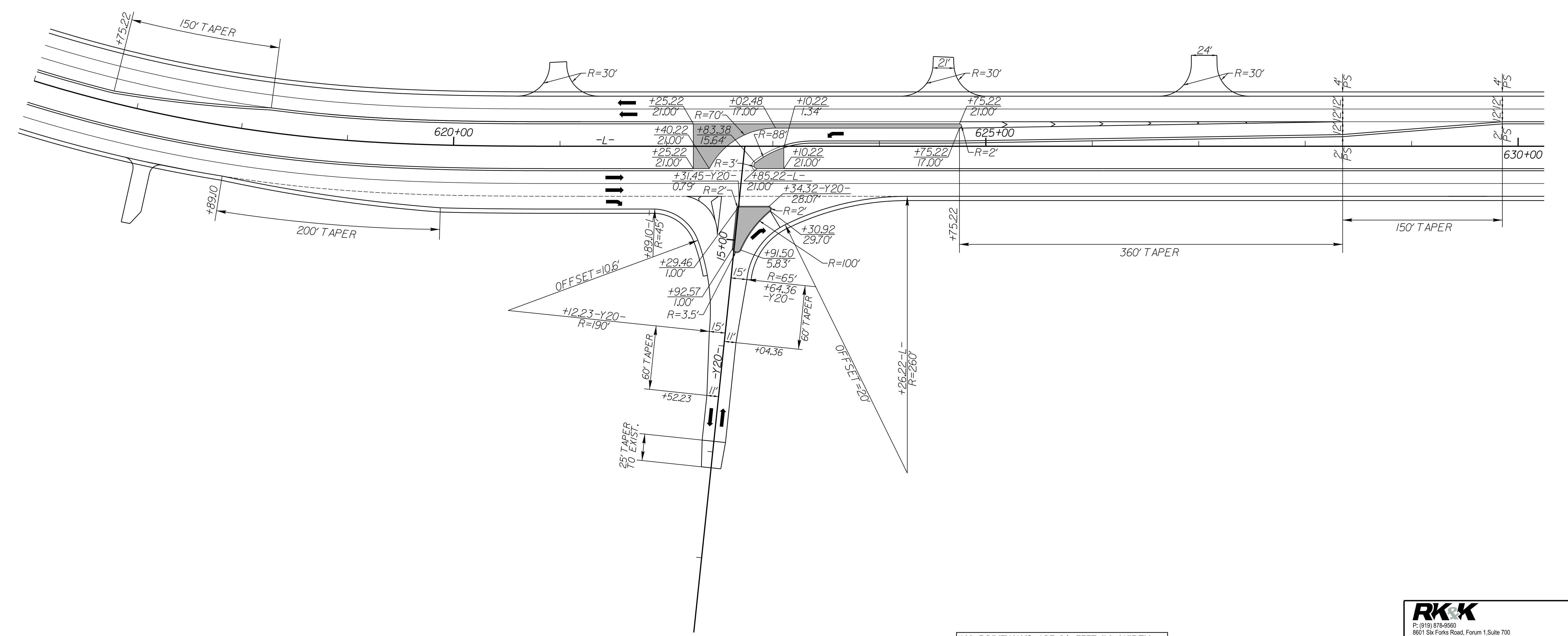
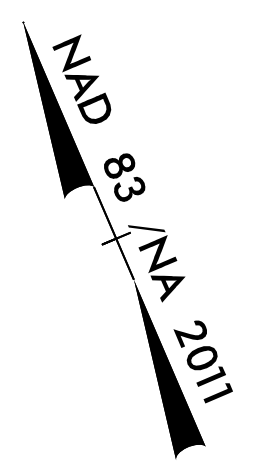
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-8A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
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# -L- & -Y20- INTERSECTION DETAIL



ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

FOR PLAN VIEW, SEE SHEET NOS. 26-27  
FOR -L- PROFILE, SEE SHEET NOS. 57-58  
FOR -Y20- PROFILE, SEE SHEET NO. 70

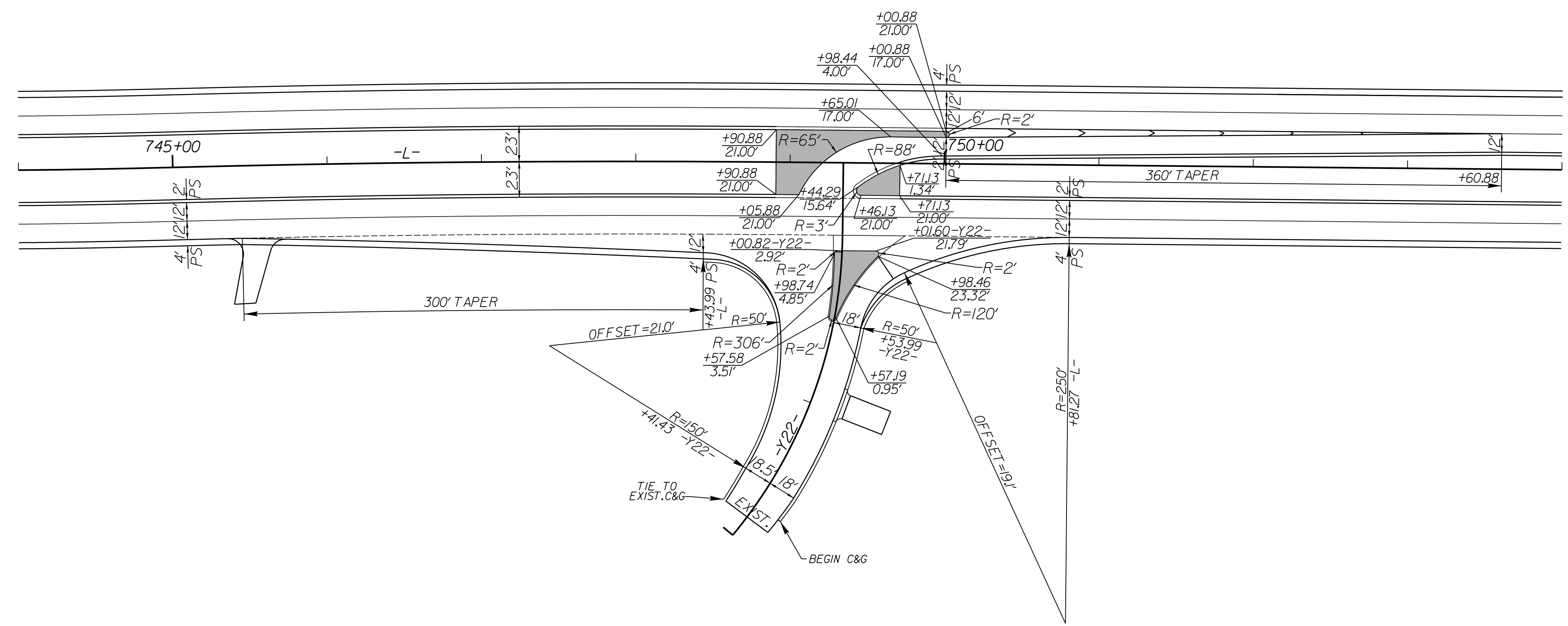
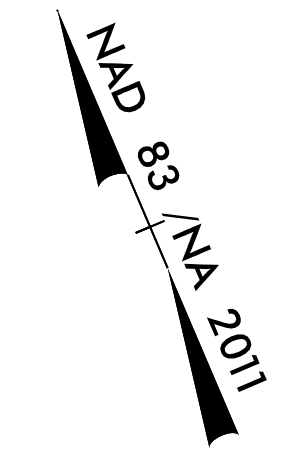
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 8/28/2024  
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8/17/99

# -L- & -Y22- INTERSECTION DETAIL

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-8B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



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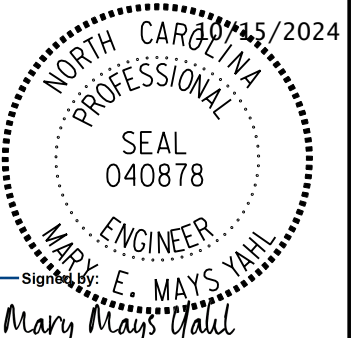
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MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

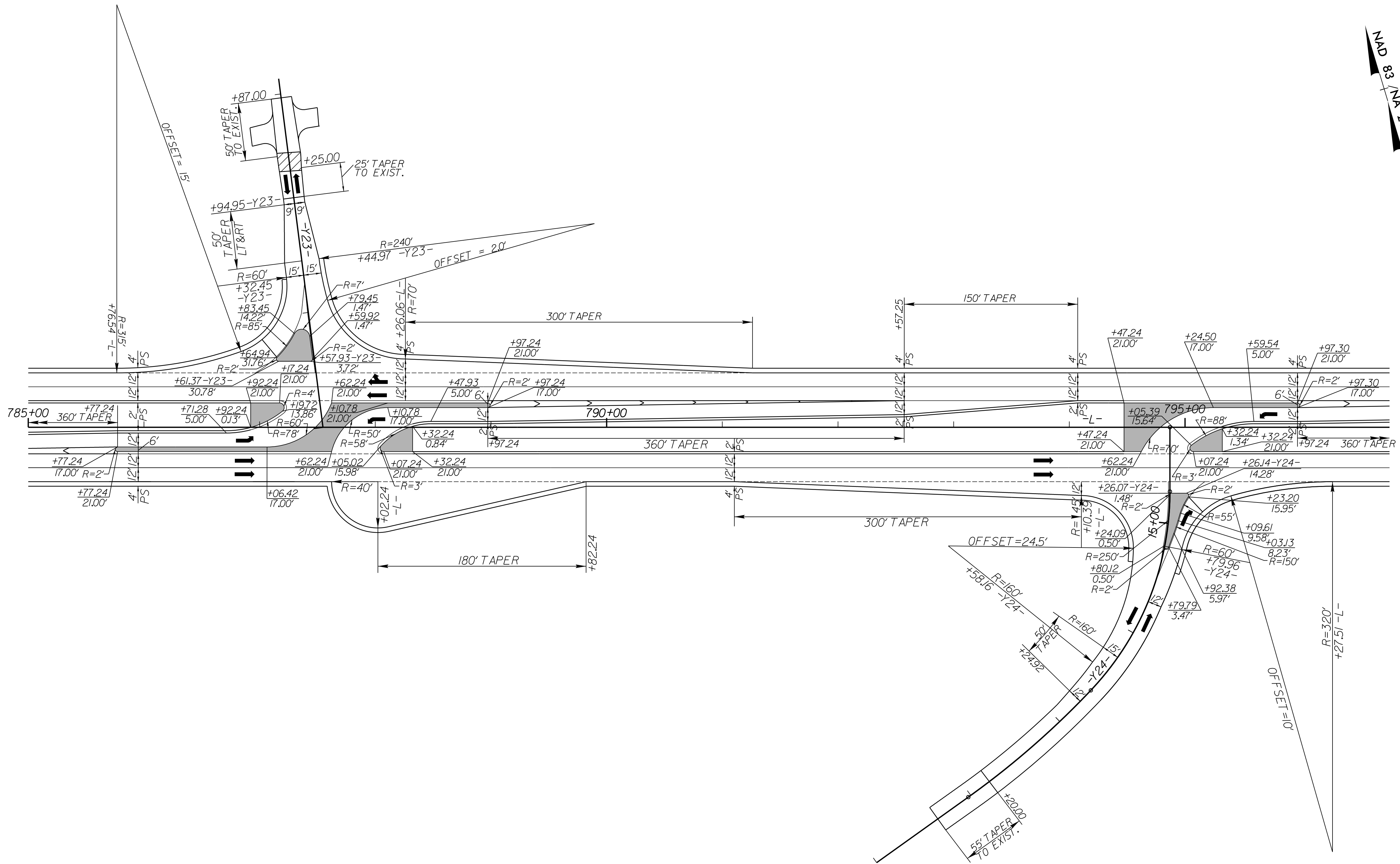
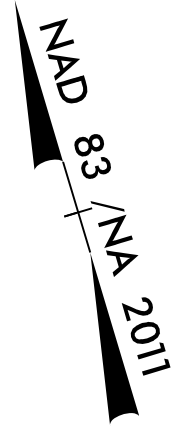
FOR PLAN VIEW, SEE SHEET NO. 35-36  
FOR -L- PROFILE, SEE SHEET NO. 62  
FOR -Y22- PROFILE, SEE SHEET NO. 71

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# -L- & -Y23- / -L- & -Y24- INTERSECTION DETAIL

PROJECT REFERENCE NO. <b>R-5709C</b>	SHEET NO. <b>2B-9</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
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ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED  
MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

FOR PLAN VIEW, SEE SHEET NO. 38-39  
FOR -L- PROFILE, SEE SHEET NOS. 63-64  
FOR -Y23- PROFILE, SEE SHEET NO. 71  
FOR -Y24- PROFILE, SEE SHEET NO. 71

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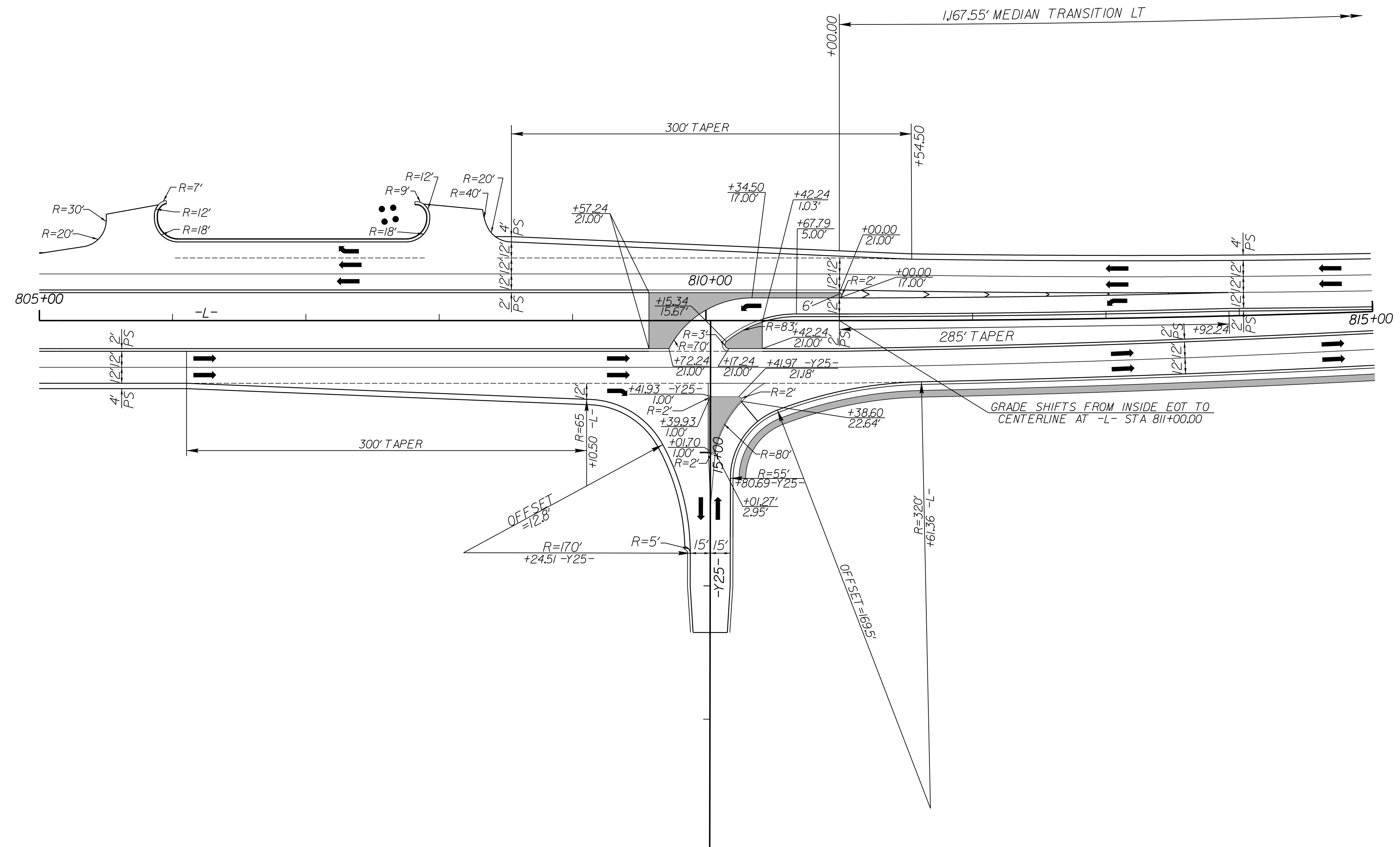
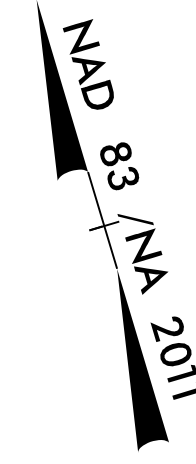
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8/28/2024  
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ic-cocker

8/17/99

# -L- & -Y25- INTERSECTION DETAIL

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
10/15/2024	
NORTH CAROLINA PROFESSIONAL SEAL 040878	
E. MARYS KILL	
Mary Mays Kill	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



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ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

FOR PLAN VIEW, SEE SHEET NO. 40 & 41  
FOR -L- PROFILE, SEE SHEET NO. 64  
FOR -Y25- PROFILE, SEE SHEET NO. 72

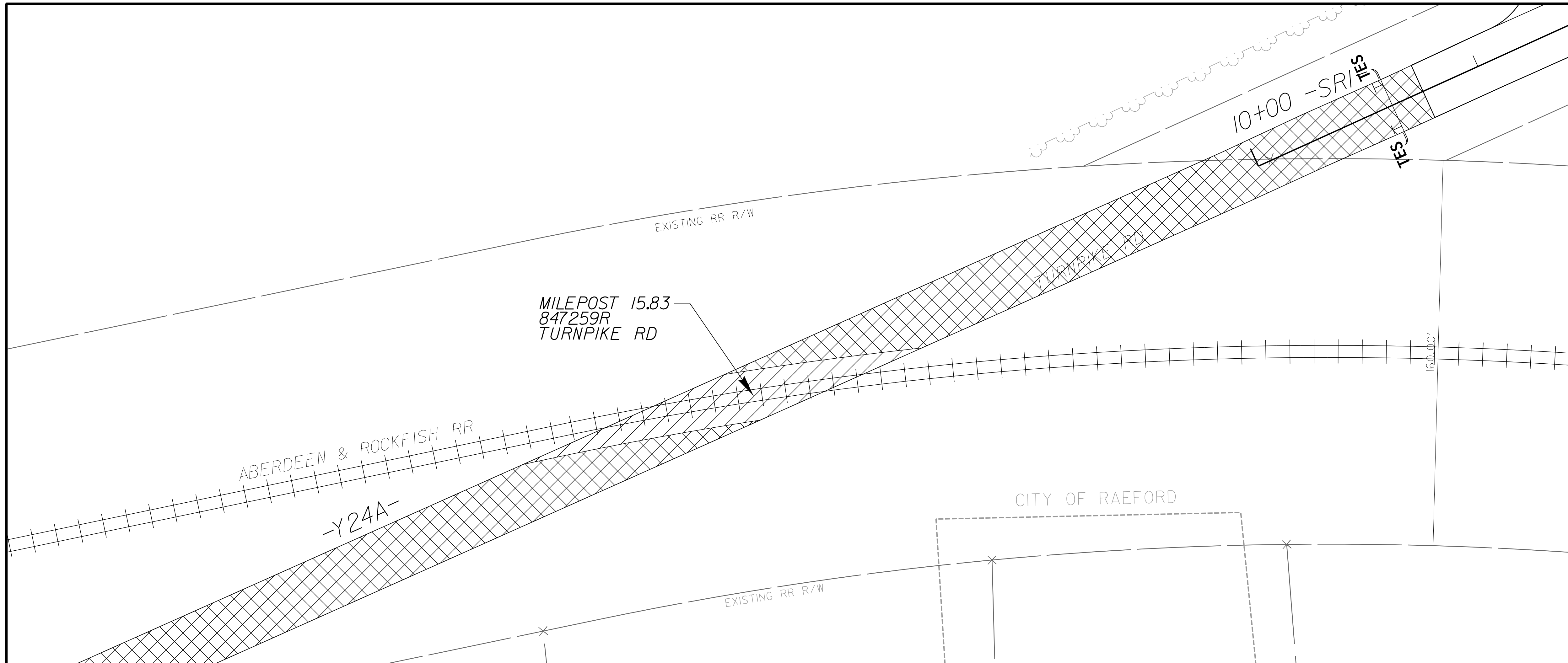
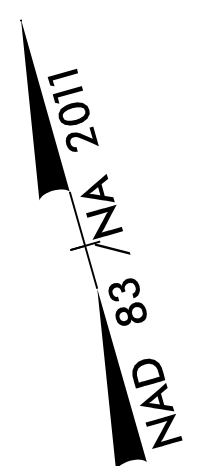
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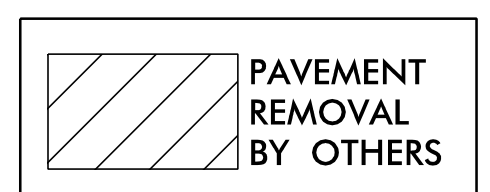




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UNLESS ALL SIGNATURES COMPLETED**



NOTE: ALL WORK WITHIN ABERDEEN & ROCKFISH RR CORRIDOR TO BE COORDINATED WITH NCDOT & ABERDEEN & ROCKFISH RR.

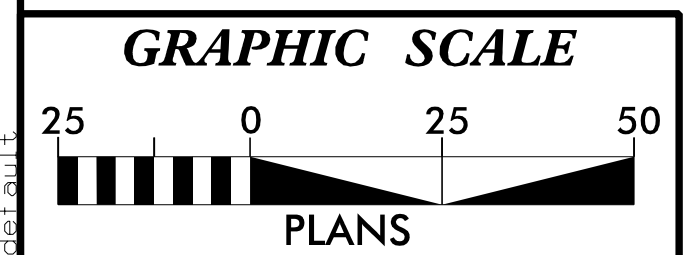


**NOTES:**

1. CONTACT THE NCDOT RESIDENT ENGINEER TO SCHEDULE THE CLOSURE OF TURNPIKE RD AT-GRADE CROSSING.
2. THE EXISTING PAVEMENT WITHIN THE ABERDEEN & ROCKFISH RR RIGHT-OF-WAY TO BE REMOVED BY CONTRACTOR. THE CONTRACTOR WILL SAW CUT THE ASPHALT 8 FEET FROM THE NEAR RAIL ON EITHER SIDE OF THE TRACK. THE RAILROAD WILL REMOVE THE ASPHALT BETWEEN THE SAW CUTS (PAVEMENT REMOVAL BY OTHERS) AND STOCKPILE ASPHALT FOR REMOVAL BY THE CONTRACTOR. THE EXISTING CROSSBUCKS, GATES AND/OR FLASHERS WILL BE REMOVED BY THE RAILROAD.
3. CONTRACTOR SHALL STABILIZE THE DISTURBED AREA OUTSIDE THE RAILROAD BALLAST LINE.
4. CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 TO LOCATE ALL UNDERGROUND UTILITIES IN THE WORK AREA. CONTRACTOR SHALL ALSO CONTACT ABERDEEN & ROCKFISH RR TO LOCATE ANY UNDERGROUND RAILROAD UTILITIES IN THE WORK AREA PRIOR TO COMMENCEMENT OF WORK WITHIN THE ABERDEEN AND ROCKFISH RIGHT-OF-WAY.
5. CONTRACTOR SHALL REMOVE EXISTING HIGHWAY ROADBED AND GRADE AREA TO MATCH ADJACENT TOPOGRAPHY. ANY EXISTING PIPE CULVERTS IN THE RAILROAD DITCHES SHALL BE REMOVED AND EXISTING DITCHES GRADED TO DRAIN. ALL PAVEMENT WITHIN THE ABERDEEN & ROCKFISH RR RIGHT-OF-WAY CORRIDOR IS TO BE REMOVED PRIOR TO THE CONCLUSION OF THE PROJECT.
6. PROVIDE PERMANENT SIGNING AS SHOWN IN THE R-5709 SIGNING PLANS. EXISTING ADVANCED RAILROAD WARNING SIGNS ARE TO BE REMOVED BY CONTRACTOR.
7. PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC MANAGEMENT PLANS.
8. ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

# CROSSING CLOSURE DETAIL

TURNPIKE RD.



10/14/2024  
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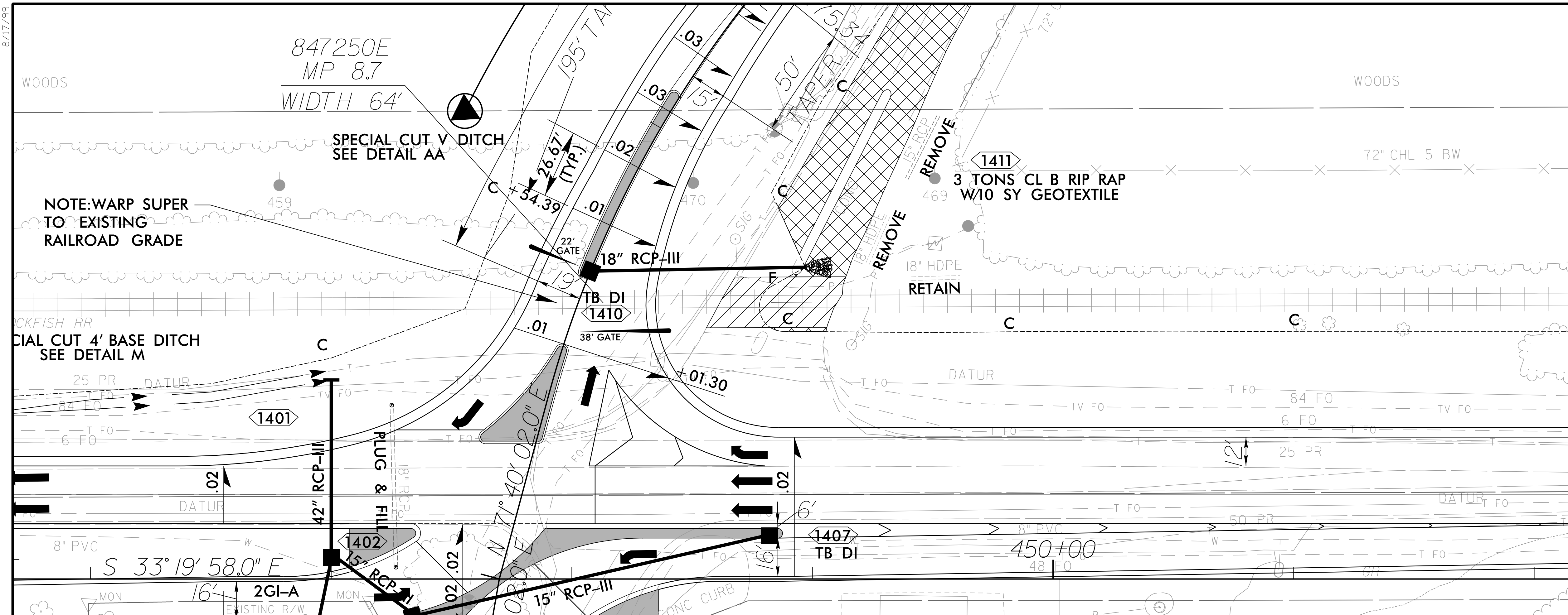


8/17/99

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 10/15/2024 NORTH CAROLINA PROFESSIONAL SEAL 040878 Mary E. Mays, P.E.	HYDRAULICS ENGINEER 10/14/2024 NORTH CAROLINA PROFESSIONAL SEAL 51640 Courtland A. Hoffman

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83 / NA 2011



NOTE: ALL WORK WITHIN ABERDEEN & ROCKFISH RR CORRIDOR TO BE COORDINATED WITH NCDOT & ABERDEEN & ROCKFISH RR.

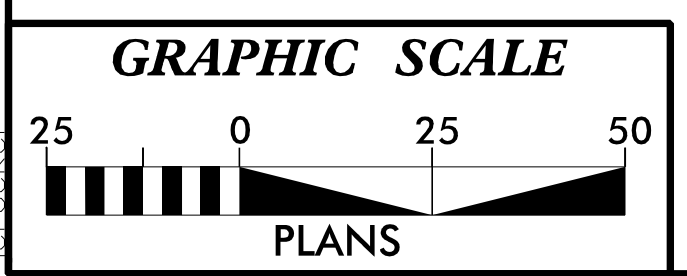


NOTES:

1. CONTACT THE NCDOT RESIDENT ENGINEER TO COORDINATE THE INSTALLATION OF THE NEW AT-GRADE CROSSING, CONCRETE TUB AND ASSOCIATED REMOVAL/REPLACEMENT OF TRACK, AND THE RAILROAD PROTECTIVE DEVICES, AS THESE WILL BE INSTALLED BY THE RAILROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAVING UP TO AND THROUGH THE NEW AT-GRADE CROSSING UNDER THE DIRECTION OF THE RAILROAD.
2. THE EXISTING PAVEMENT WITHIN THE ABERDEEN & ROCKFISH RR RIGHT-OF-WAY TO BE REMOVED BY THE CONTRACTOR. THE CONTRACTOR WILL SAW CUT ASPHALT 8 FEET FROM THE NEAR RAIL ON EACH SIDE OF THE CROSSING. THE RAILROAD WILL REMOVE ASPHALT BETWEEN THE SAW CUTS (PAVEMENT REMOVAL BY OTHERS) AND STOCKPILE FOR REMOVAL BY THE CONTRACTOR. ALL EXISTING PAVEMENT WITHIN THE ABERDEEN & ROCKFISH RR RIGHT OF WAY TO BE REMOVED BY THE CONTRACTOR. THE EXISTING CROSSBUCKS, GATES AND/OR FLASHERS WILL BE REMOVED BY THE RAILROAD.
3. CONTRACTOR SHALL STABILIZE THE DISTURBED AREA OUTSIDE THE RAILROAD BALLAST LINE.
4. CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 TO LOCATE ALL UNDERGROUND UTILITIES IN THE WORK AREA. CONTRACTOR SHALL ALSO CONTACT ABERDEEN & ROCKFISH RR TO LOCATE ANY UNDERGROUND RAILROAD UTILITIES IN THE WORK AREA PRIOR TO COMMENCEMENT OF WORK WITHIN THE ABERDEEN & ROCKFISH RR RIGHT OF WAY.
5. CONTRACTOR SHALL REMOVE EXISTING HIGHWAY ROADBED, DRAINAGE AND GRADE AREA TO MATCH ADJACENT TOPOGRAPHY, ACCORDING TO THE PLAN.
6. ENSURE ALL NECESSARY TEMPORARY AND/OR PERMANENT PAVEMENT MARKING/SIGNING AND CROSSING PROTECTION IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERNS. SHOULD THE NECESSARY PROTECTIONS NOT BE AVAILABLE, THEN THE ROAD MUST REMAIN CLOSED TO VEHICULAR TRAFFIC.

# CROSSING CONSTRUCTION DETAIL

NC 211 / PLANK RD.



FOR PLAN VIEW, SEE SHEET NO. 14

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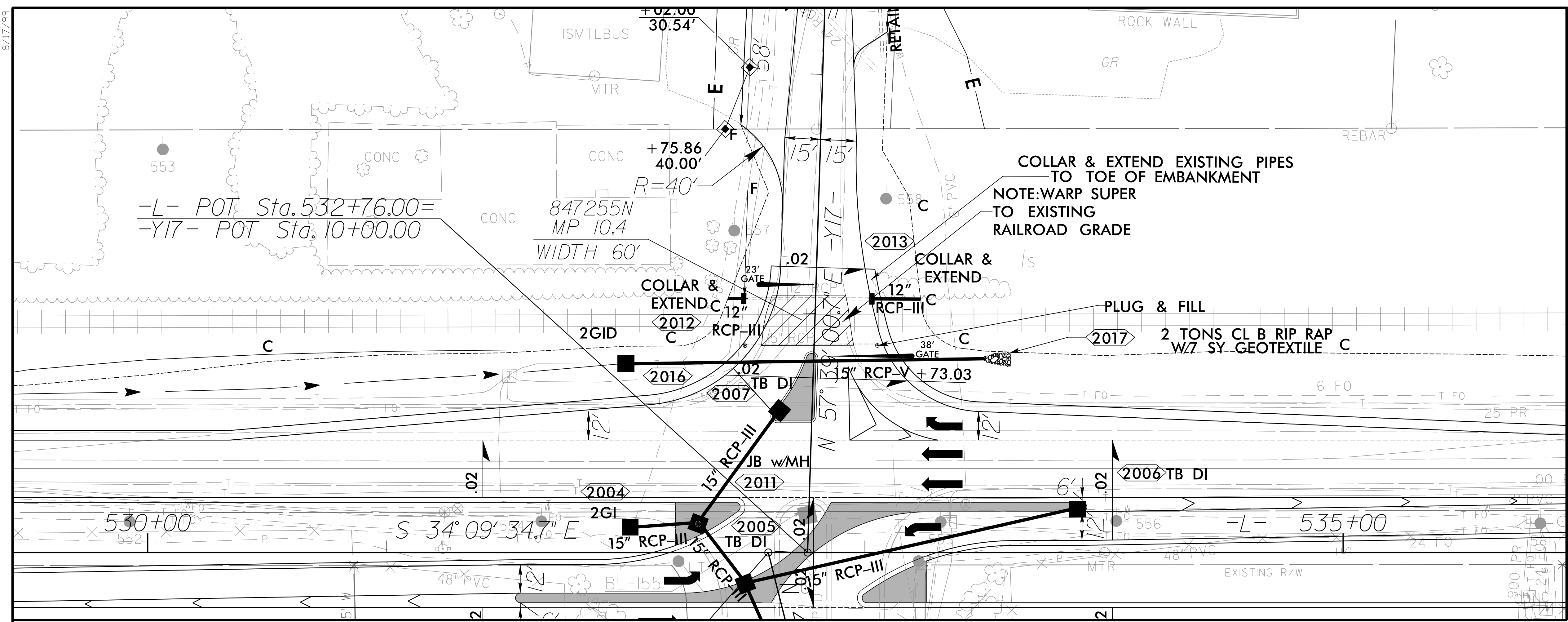
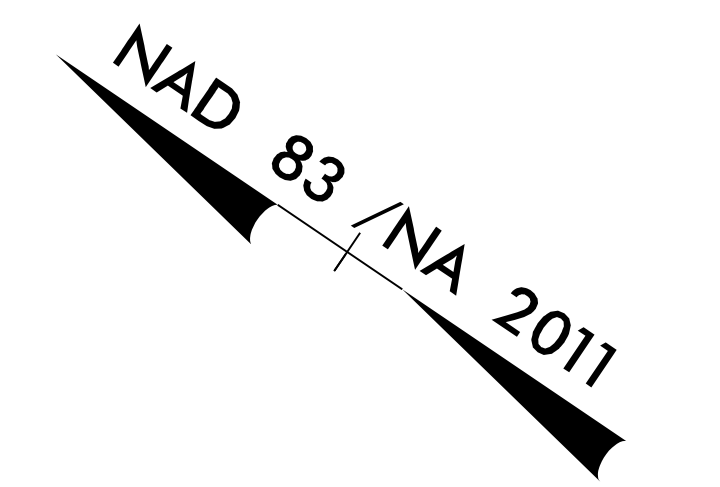
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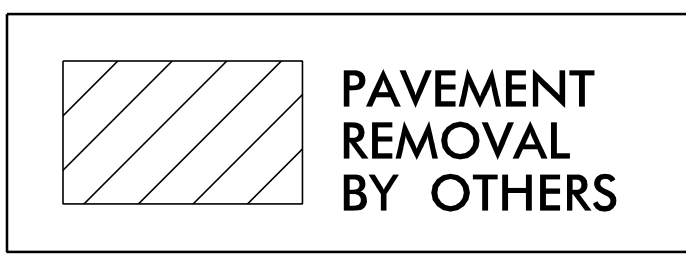
8/17/99

PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER Mary E. Mays, P.E. SEAL 040878 08/15/2024	HYDRAULICS ENGINEER Courtland Hoffman, P.E. SEAL 51640 08/15/2024

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NOTE: ALL WORK WITHIN ABERDEEN & ROCKFISH RR CORRIDOR TO BE COORDINATED WITH NCDOT & ABERDEEN & ROCKFISH RR.

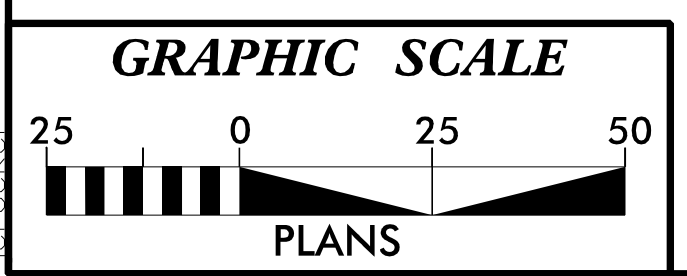


NOTES:

1. CONTACT THE NCDOT RESIDENT ENGINEER TO COORDINATE THE INSTALLATION OF THE NEW AT-GRADE CROSSING, CONCRETE TUB AND ASSOCIATED REMOVAL/REPLACEMENT OF TRACK, AND THE RAILROAD PROTECTIVE DEVICES, AS THESE WILL BE INSTALLED BY THE RAILROAD. THIS IS A ONE-WAY IN AND ONE-WAY OUT CROSSING. TEMPORARY ACCESS NEEDS TO BE PROVIDED BY THE CONTRACTOR DURING RECONSTRUCTION OF THE EXISTING CROSSING BY THE RAILROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAVING UP TO AND THROUGH THE NEW AT-GRADE CROSSING UNDER THE DIRECTION OF THE RAILROAD.
2. THE EXISTING PAVEMENT WITHIN THE ABERDEEN & ROCKFISH RR RIGHT-OF-WAY TO BE REMOVED BY THE CONTRACTOR. THE CONTRACTOR WILL SAW CUT ASPHALT 8 FEET FROM THE NEAR RAIL ON EACH SIDE OF THE CROSSING. THE RAILROAD WILL REMOVE ASPHALT BETWEEN THE SAW CUTS (PAVEMENT REMOVAL BY OTHERS) AND STOCKPILE FOR REMOVAL BY THE CONTRACTOR. ALL EXISTING PAVEMENT WITHIN THE ABERDEEN & ROCKFISH RR RIGHT OF WAY TO BE REMOVED BY THE CONTRACTOR. THE EXISTING CROSSBUCKS, GATES AND/OR FLASHERS WILL BE REMOVED BY THE RAILROAD.
3. CONTRACTOR SHALL STABILIZE THE DISTURBED AREA OUTSIDE THE RAILROAD BALLAST LINE.
4. CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 TO LOCATE ALL UNDERGROUND UTILITIES IN THE WORK AREA. CONTRACTOR SHALL ALSO CONTACT ABERDEEN & ROCKFISH RR TO LOCATE ANY UNDERGROUND RAILROAD UTILITIES IN THE WORK AREA PRIOR TO COMMENCEMENT OF WORK WITHIN THE ABERDEEN & ROCKFISH RR RIGHT OF WAY.
5. CONTRACTOR SHALL REMOVE EXISTING HIGHWAY ROADBED, DRAINAGE AND GRADE AREA TO MATCH ADJACENT TOPOGRAPHY, ACCORDING TO THE PLAN.
6. ENSURE ALL NECESSARY TEMPORARY AND/OR PERMANENT PAVEMENT MARKING/SIGNING AND CROSSING PROTECTION IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERNS. SHOULD THE NECESSARY PROTECTIONS NOT BE AVAILABLE, THEN THE ROAD MUST REMAIN CLOSED TO VEHICULAR TRAFFIC.

# CROSSING CONSTRUCTION DETAIL

NC 211 / POOLE RD.



FOR PLAN VIEW, SEE SHEET NO. 20

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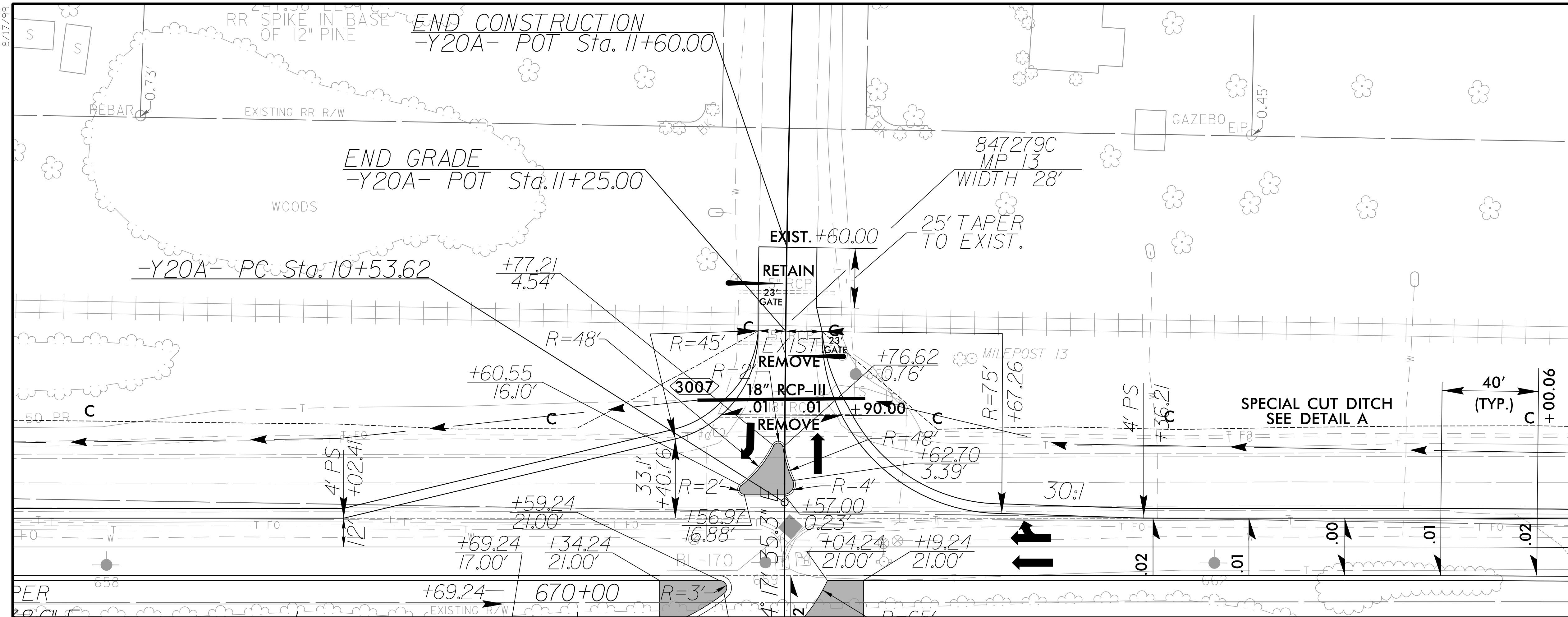
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER Mary E. Hays, P.E. SEAL 040878	HYDRAULICS ENGINEER Courtland A. Hoffman, P.E. SEAL 51640

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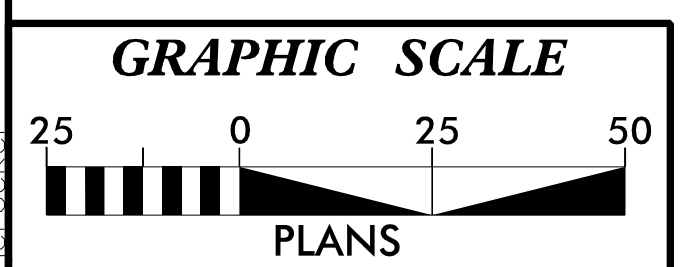
NOTE: ALL WORK WITHIN ABERDEEN & ROCKFISH RR CORRIDOR TO BE COORDINATED WITH NCDOT & ABERDEEN & ROCKFISH RR.



- NOTES:
1. THE EXISTING CROSSING SURFACE SHALL NOT BE DISTURBED. CONTRACTOR SHALL PAVE UP TO THE EXISTING CROSSING ON EACH SIDE OF THE TRACK AND MAKE A SMOOTH TRANSITION WITH THE EXISTING PAVEMENT SURFACE. CONTACT THE NCDOT RESIDENT ENGINEER TO COORDINATE THE INSTALLATION OF THE NEW ASPHALT PAVEMENT SURFACE APPROACHES. THE RAILROAD PROTECTIVE DEVICES WILL BE INSTALLED BY THE RAILROAD.
  2. ANY EXISTING ASPHALT REMOVED FROM THE CROSSING APPROACHES SHALL BE REMOVED FROM THE ABERDEEN & ROCKFISH RR RIGHT-OF-WAY BY THE CONTRACTOR. THE EXISTING CROSSBUCKS WILL BE REMOVED BY THE RAILROAD.
  3. CONTRACTOR SHALL STABILIZE THE DISTURBED AREA OUTSIDE THE RAILROAD BALLAST LINE.
  4. CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 TO LOCATE ALL UNDERGROUND UTILITIES IN THE WORK AREA. CONTRACTOR SHALL ALSO CONTACT ABERDEEN & ROCKFISH RR TO LOCATE ANY UNDERGROUND RAILROAD UTILITIES IN THE WORK AREA PRIOR TO COMMENCEMENT OF WORK WITHIN THE ABERDEEN & ROCKFISH RR RIGHT OF WAY.
  5. CONTRACTOR SHALL REMOVE EXISTING HIGHWAY ROADBED, DRAINAGE AND GRADE AREA TO MATCH ADJACENT TOPOGRAPHY, ACCORDING TO THE PLAN.
  6. ENSURE ALL NECESSARY TEMPORARY AND/OR PERMANENT PAVEMENT MARKING/SIGNING AND CROSSING PROTECTION IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERNS. SHOULD THE NECESSARY PROTECTIONS NOT BE AVAILABLE, THEN THE ROAD MUST REMAIN CLOSED TO VEHICULAR TRAFFIC.

# CROSSING CONSTRUCTION DETAIL

NC 211 / VEY ST.



FOR PLAN VIEW, SEE SHEET NO. 30

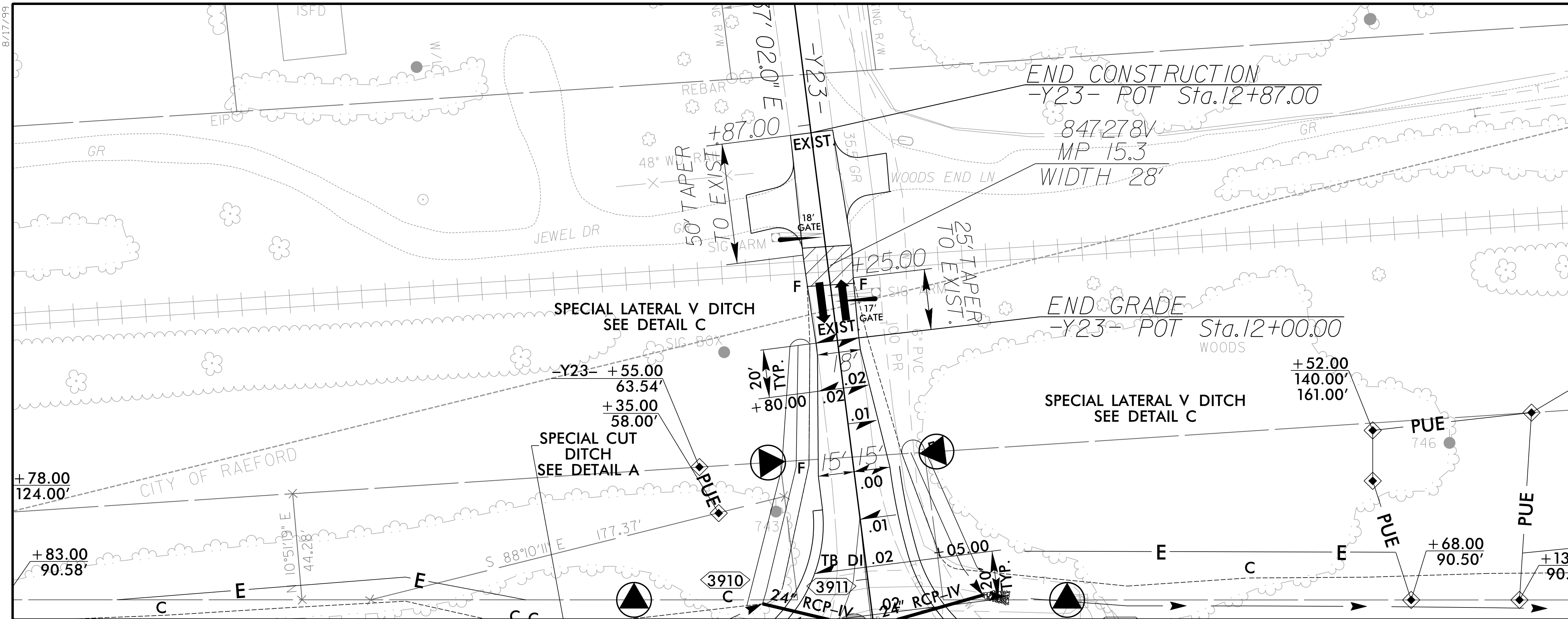
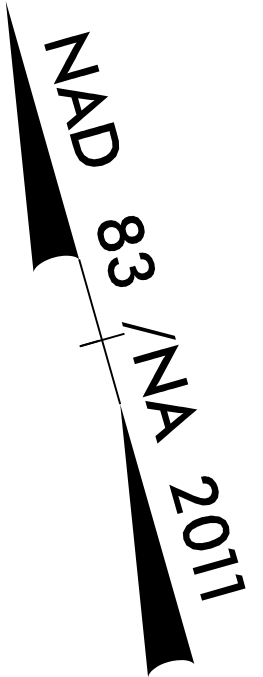
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8/28/2024  
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 040878 Mary E. Mays Hill	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 51640 Courtland Hoffman

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NOTE: ALL WORK WITHIN ABERDEEN & ROCKFISH RR CORRIDOR TO BE COORDINATED WITH NCDOT & ABERDEEN & ROCKFISH RR.

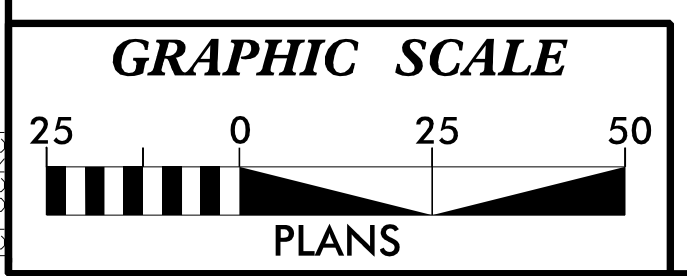


NOTES:

1. CONTACT THE NCDOT RESIDENT ENGINEER TO COORDINATE THE REMOVAL/INSTALLATION OF THE NEW AT-GRADE CROSSING SURFACE AND INSTALLATION OF THE RAILROAD PROTECTIVE DEVICES, AS THESE WILL BE INSTALLED BY THE RAILROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAVING UP TO AND THROUGH THE NEW AT-GRADE CROSSING UNDER THE DIRECTION OF THE RAILROAD. THIS IS A ONE-WAY IN AND ONE-WAY OUT CROSSING. THE CONTRACTOR SHALL PROVIDE THE MEANS FOR THE CROSSING WORK TO BE PERFORMED AND MAINTAIN AT LEAST ONE LANE OF ACCESS.
2. THE EXISTING PAVEMENT WITHIN THE ABERDEEN & ROCKFISH RR RIGHT-OF-WAY TO BE REMOVED BY CONTRACTOR. CONTRACTOR WILL SAW CUT THE ASPHALT 8' FROM THE NEAR RAIL EITHER SIDE OF THE TRACK. RAILROAD WILL REMOVE ASPHALT BETWEEN THE SAW CUTS AND STOCKPILE ASPHALT FOR REMOVAL BY CONTRACTOR. THE EXISTING CROSSBUCKS, GATES, AND/OR FLASHERS WILL BE REMOVED BY THE RAILROAD.
3. CONTRACTOR SHALL STABILIZE THE DISTURBED AREA OUTSIDE THE RAILROAD BALLAST LINE.
4. CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 TO LOCATE ALL UNDERGROUND UTILITIES IN THE WORK AREA. CONTRACTOR SHALL ALSO CONTACT ABERDEEN & ROCKFISH RR TO LOCATE ANY UNDERGROUND RAILROAD UTILITIES IN THE WORK AREA PRIOR TO COMMENCEMENT OF WORK WITHIN THE ABERDEEN & ROCKFISH RR RIGHT OF WAY.
5. CONTRACTOR SHALL REMOVE EXISTING HIGHWAY ROADBED, DRAINAGE AND GRADE AREA TO MATCH ADJACENT TOPOGRAPHY, ACCORDING TO THE PLAN.
6. ENSURE ALL NECESSARY TEMPORARY AND/OR PERMANENT PAVEMENT MARKING/SIGNING AND CROSSING PROTECTION IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERNS. SHOULD THE NECESSARY PROTECTIONS NOT BE AVAILABLE, THEN THE ROAD MUST REMAIN CLOSED TO VEHICULAR TRAFFIC.

# CROSSING CONSTRUCTION DETAIL

NC 211 / LAKE ELIZABETH RD.

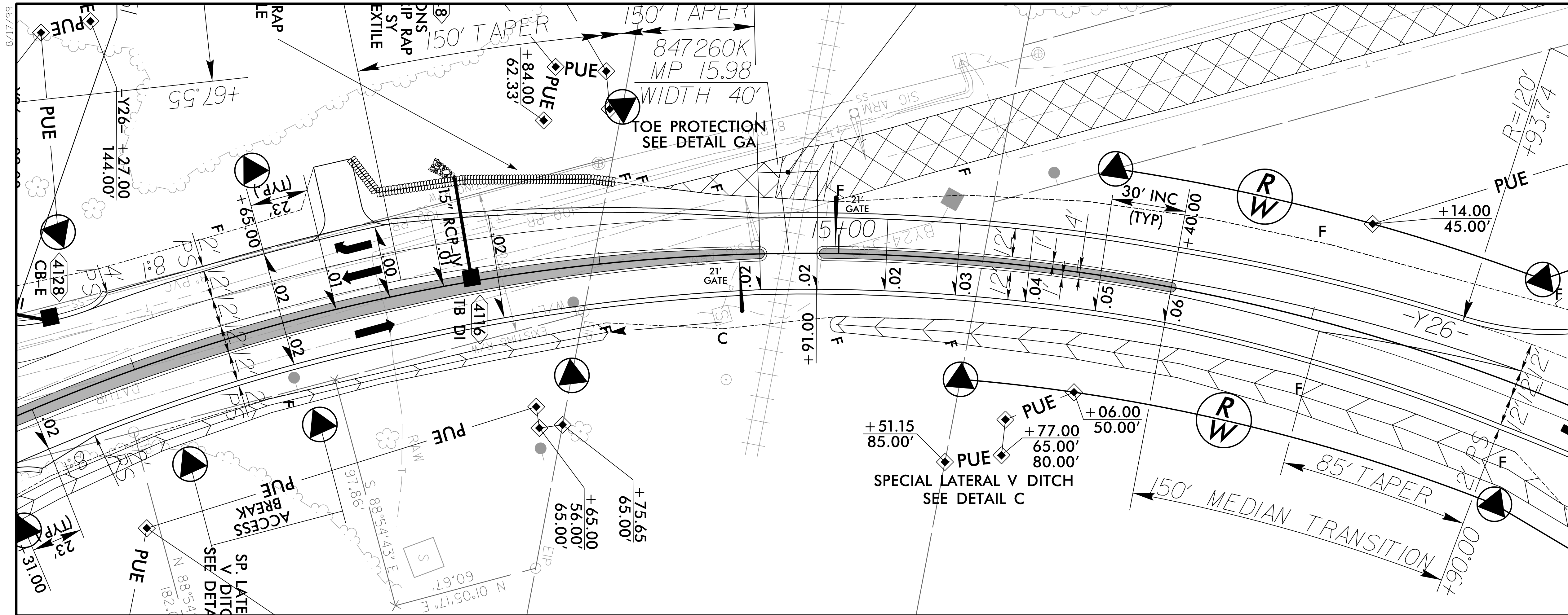


FOR PLAN VIEW, SEE SHEET NOS. 39

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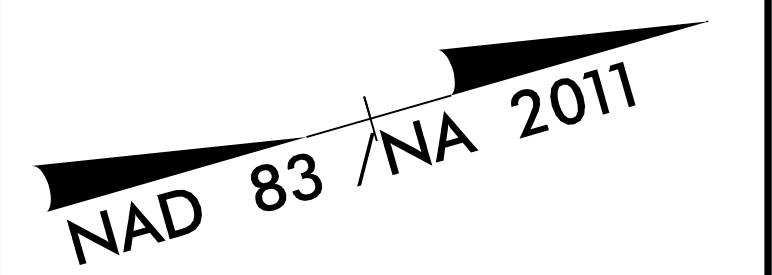
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER Mary Main-Hall SEAL 040878 NORTH CAROLINA PROFESSIONAL ENGINEER 10/14/2024	HYDRAULICS ENGINEER Curtis R. Hoffman SEAL 51640 NORTH CAROLINA PROFESSIONAL ENGINEER 10/14/2024

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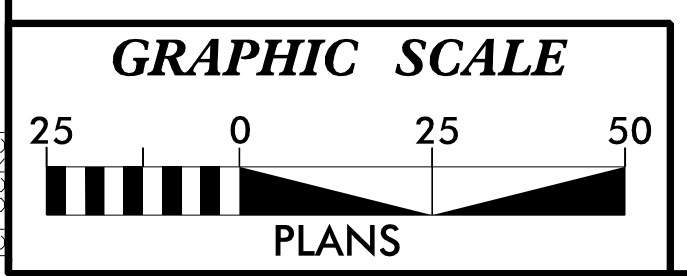
NOTE: ALL WORK WITHIN ABERDEEN & ROCKFISH RR CORRIDOR TO BE COORDINATED WITH NCDOT & ABERDEEN & ROCKFISH RR.



- NOTES:
- CONTACT THE NCDOT RESIDENT ENGINEER TO COORDINATE THE INSTALLATION OF THE NEW AT-GRADE CROSSING, CONCRETE TUB AND ASSOCIATED REMOVAL/REPLACEMENT OF TRACK, AND THE RAILROAD PROTECTIVE DEVICES, AS THESE WILL BE INSTALLED BY THE RAILROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAVING UP TO AND THROUGH THE NEW AT-GRADE CROSSING UNDER THE DIRECTION OF THE RAILROAD.
  - THE EXISTING PAVEMENT WITHIN THE ABERDEEN & ROCKFISH RR RIGHT-OF-WAY TO BE REMOVED BY CONTRACTOR. THE CONTRACTOR WILL SAW CUT ASPHALT 8 FEET FROM THE NEAR RAIL ON EACH SIDE OF THE CROSSING. THE RAILROAD WILL REMOVE ASPHALT BETWEEN THE SAW CUTS (PAVEMENT REMOVAL BY OTHERS) AND STOCKPILE FOR REMOVAL BY THE CONTRACTOR. ALL EXISTING PAVEMENT WITHIN THE ABERDEEN & ROCKFISH RR RIGHT OF WAY TO BE REMOVED BY THE CONTRACTOR. THE EXISTING CROSSBUCKS, GATES AND/OR FLASHERS WILL BE REMOVED BY THE RAILROAD.
  - CONTRACTOR SHALL STABILIZE THE DISTURBED AREA OUTSIDE THE RAILROAD BALLAST LINE.
  - CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 TO LOCATE ALL UNDERGROUND UTILITIES IN THE WORK AREA. CONTRACTOR SHALL ALSO CONTACT ABERDEEN & ROCKFISH RR TO LOCATE ANY UNDERGROUND RAILROAD UTILITIES IN THE WORK AREA PRIOR TO COMMENCEMENT OF WORK WITHIN THE ABERDEEN & ROCKFISH RR RIGHT OF WAY.
  - CONTRACTOR SHALL REMOVE EXISTING HIGHWAY ROADBED, DRAINAGE AND GRADE AREA TO MATCH ADJACENT TOPOGRAPHY, ACCORDING TO THE PLAN.
  - ENSURE ALL NECESSARY TEMPORARY AND/OR PERMANENT PAVEMENT MARKING/SIGNING AND CROSSING PROTECTION IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERNS. SHOULD THE NECESSARY PROTECTIONS NOT BE AVAILABLE, THEN THE ROAD MUST REMAIN CLOSED TO VEHICULAR TRAFFIC.

# CROSSING CONSTRUCTION DETAIL

NC 211 / MOCKINGBIRD HILL RD.



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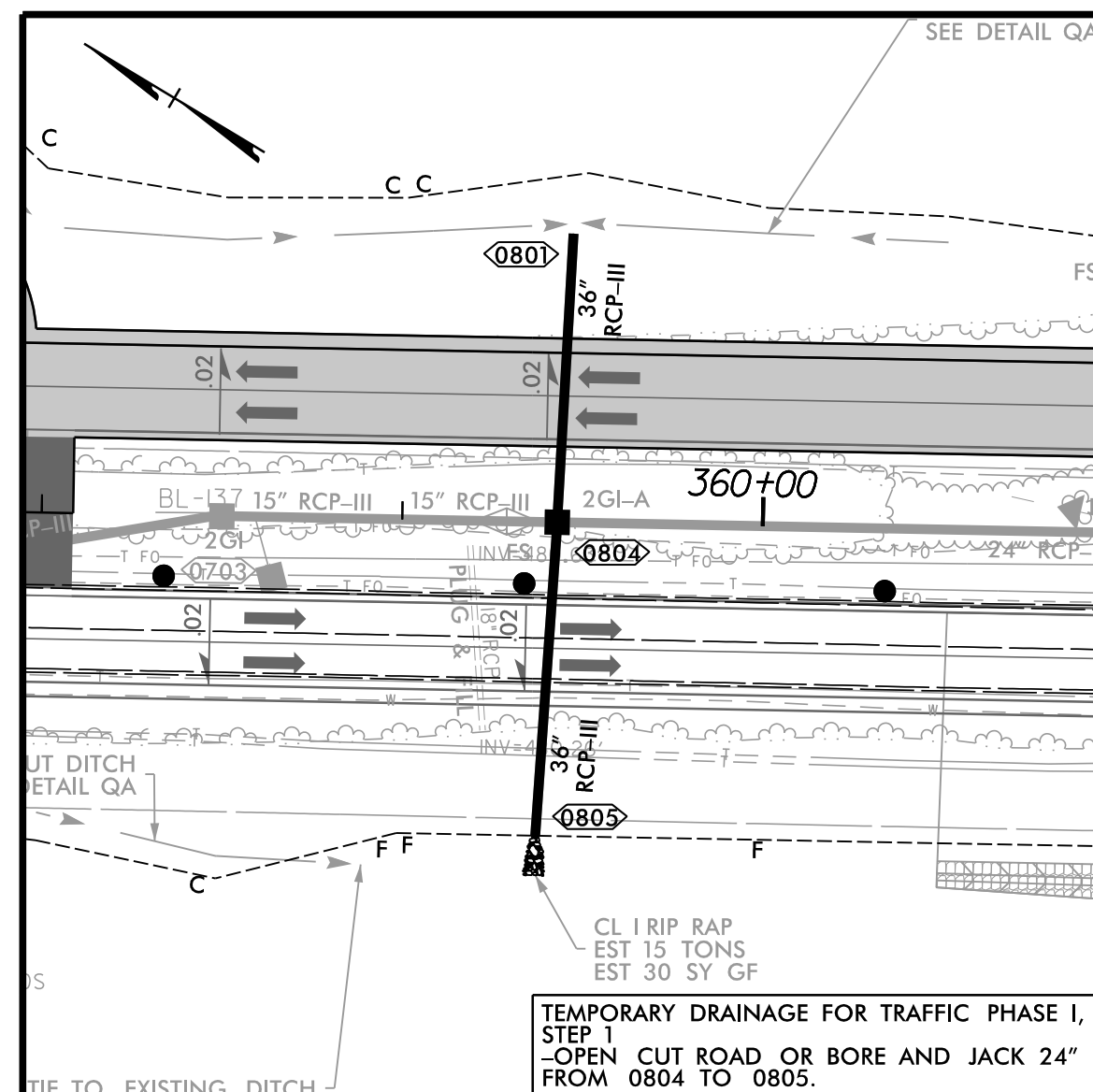
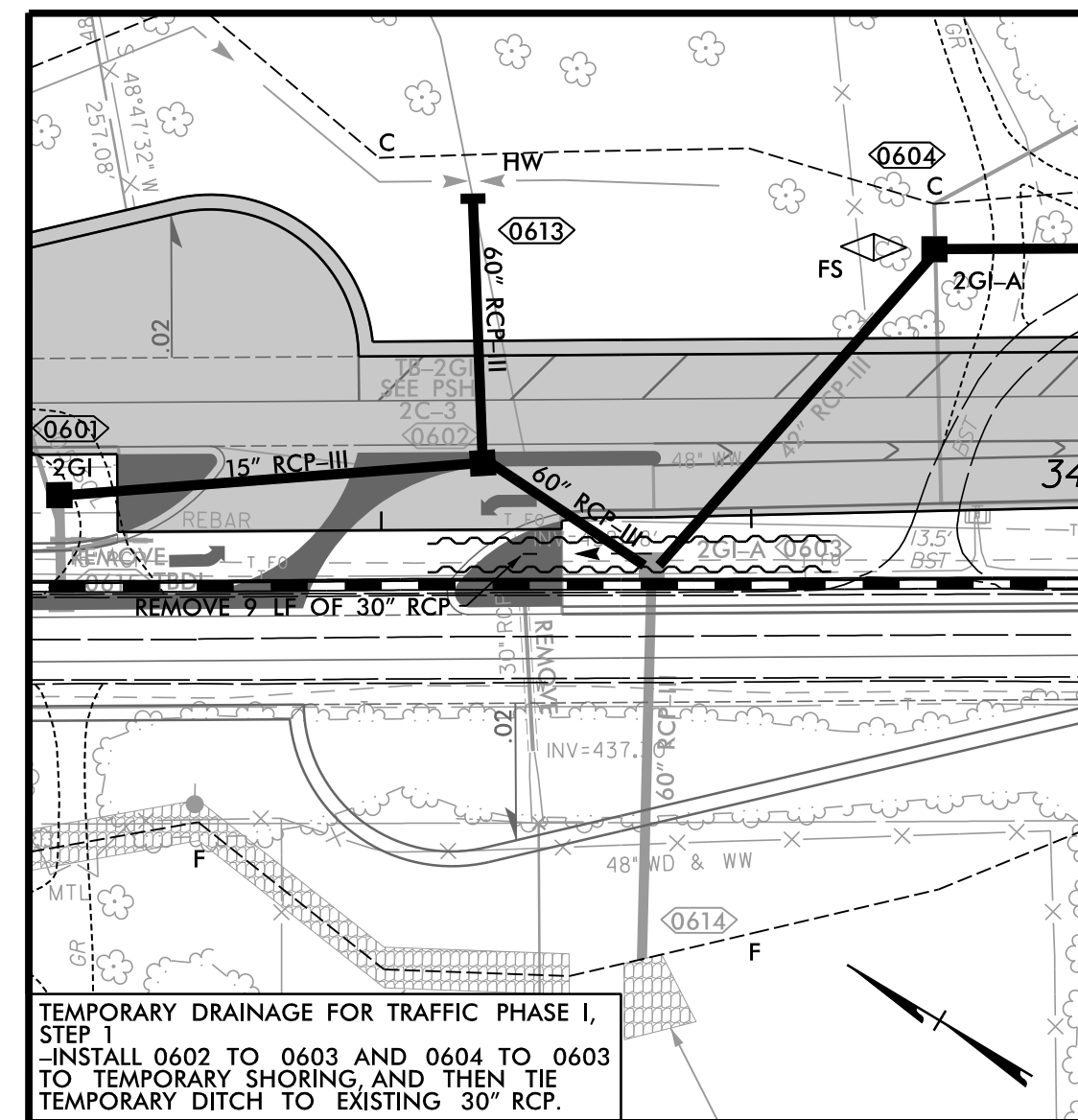
FOR PLAN VIEW, SEE SHEET NOS. 41-44

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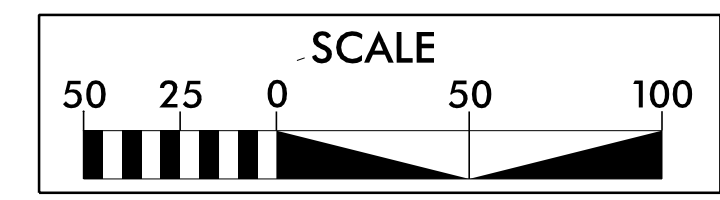
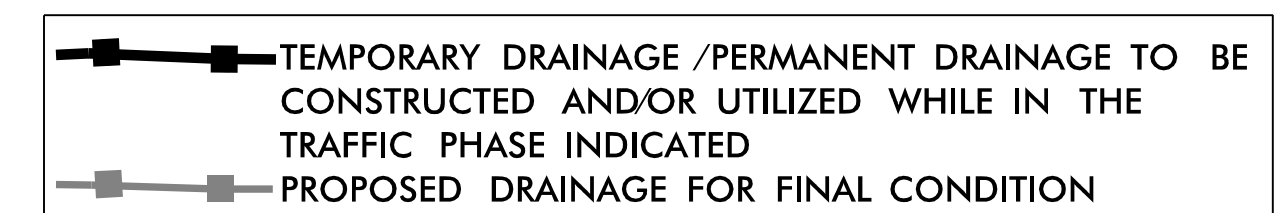
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 2B-18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SEAL 040878 Mary Mays Hall	HYDRAULICS ENGINEER 10/14/2024 SEAL 51640 Courtland A. Hoffman
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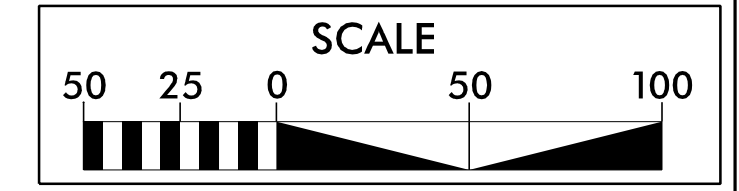
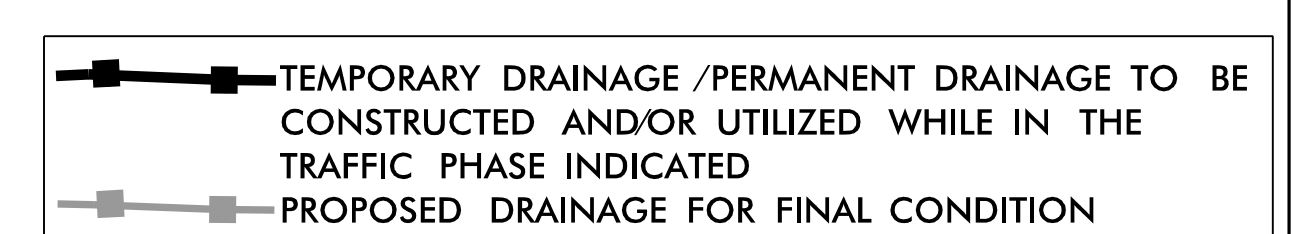
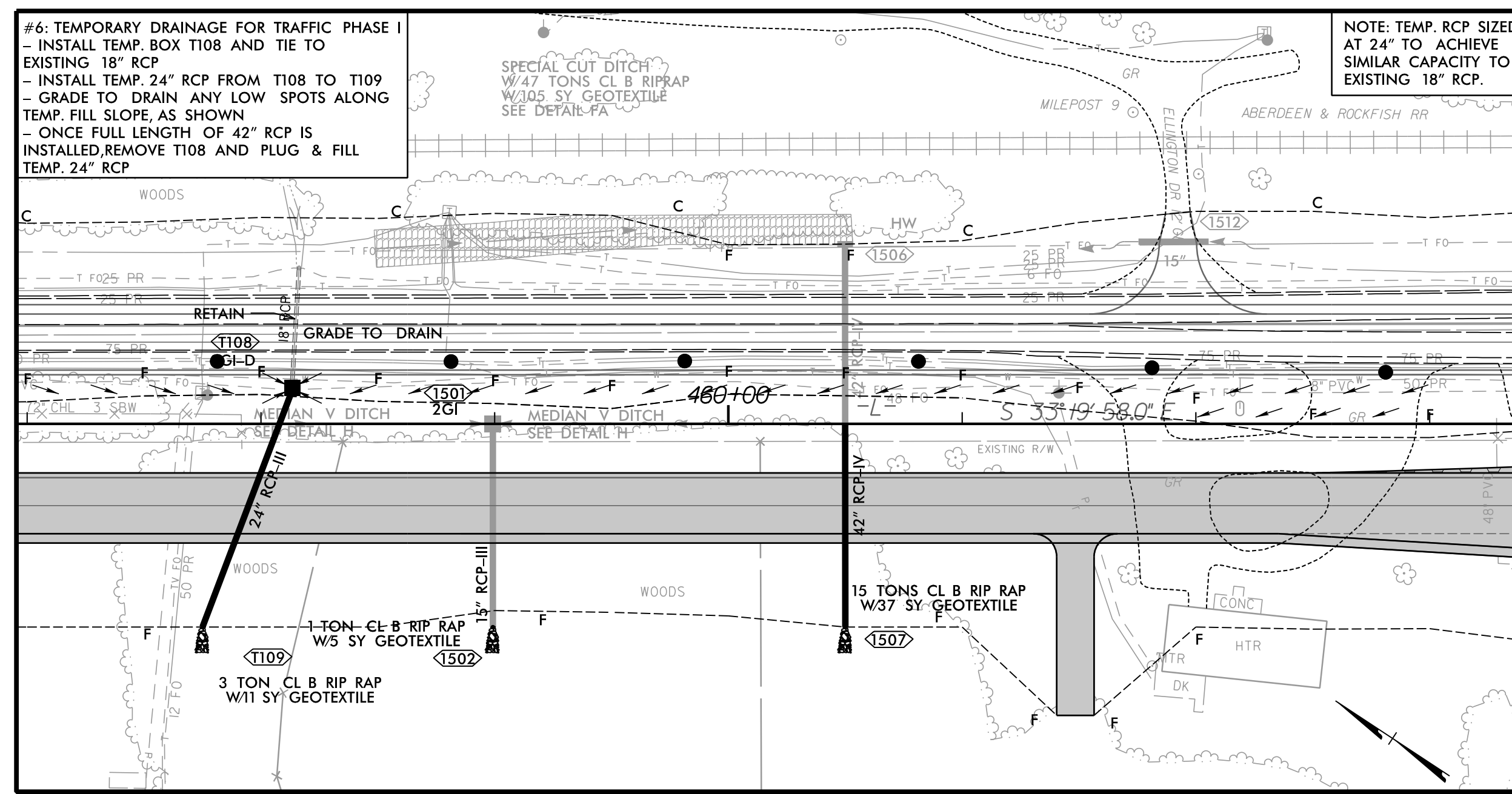
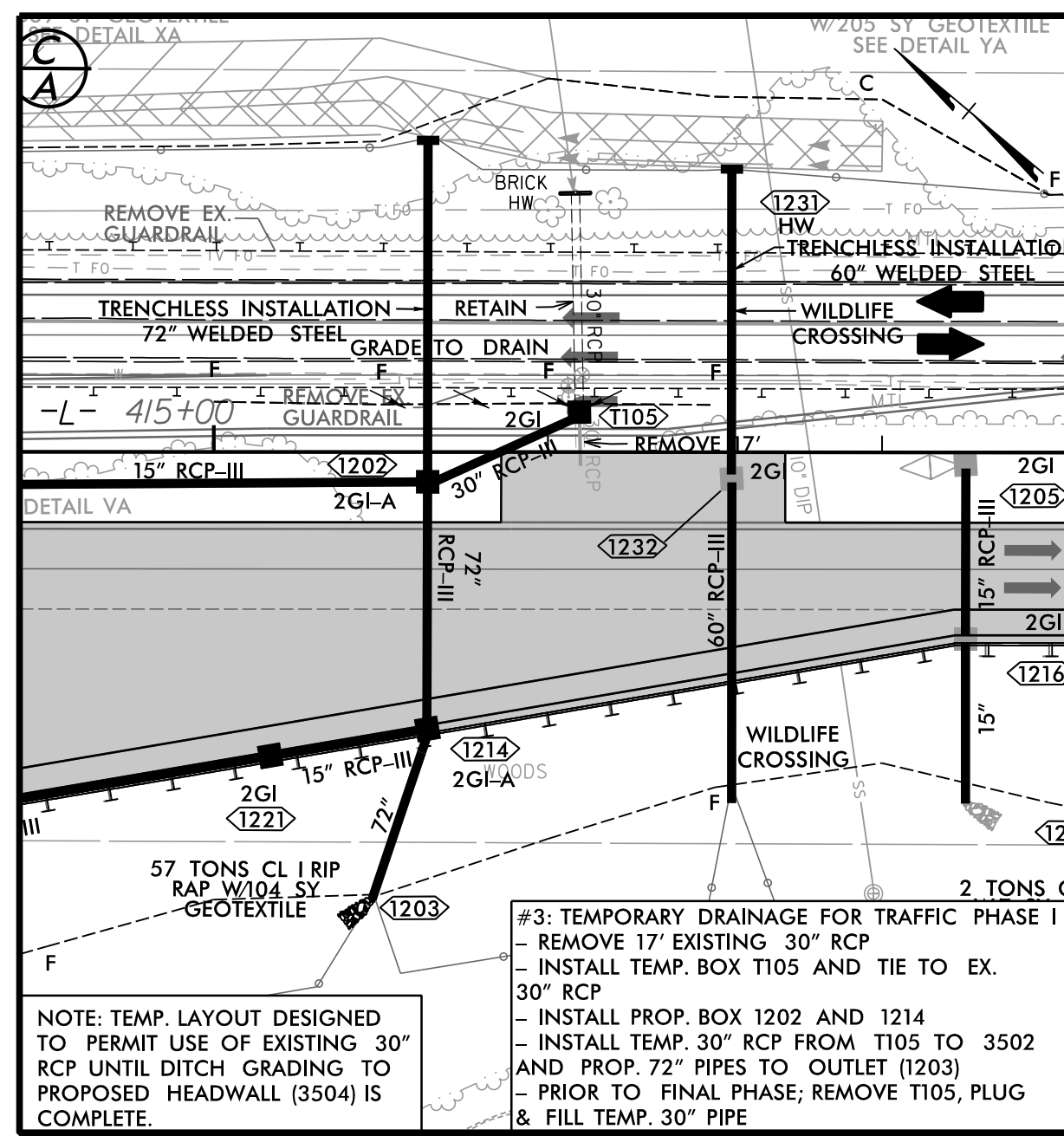
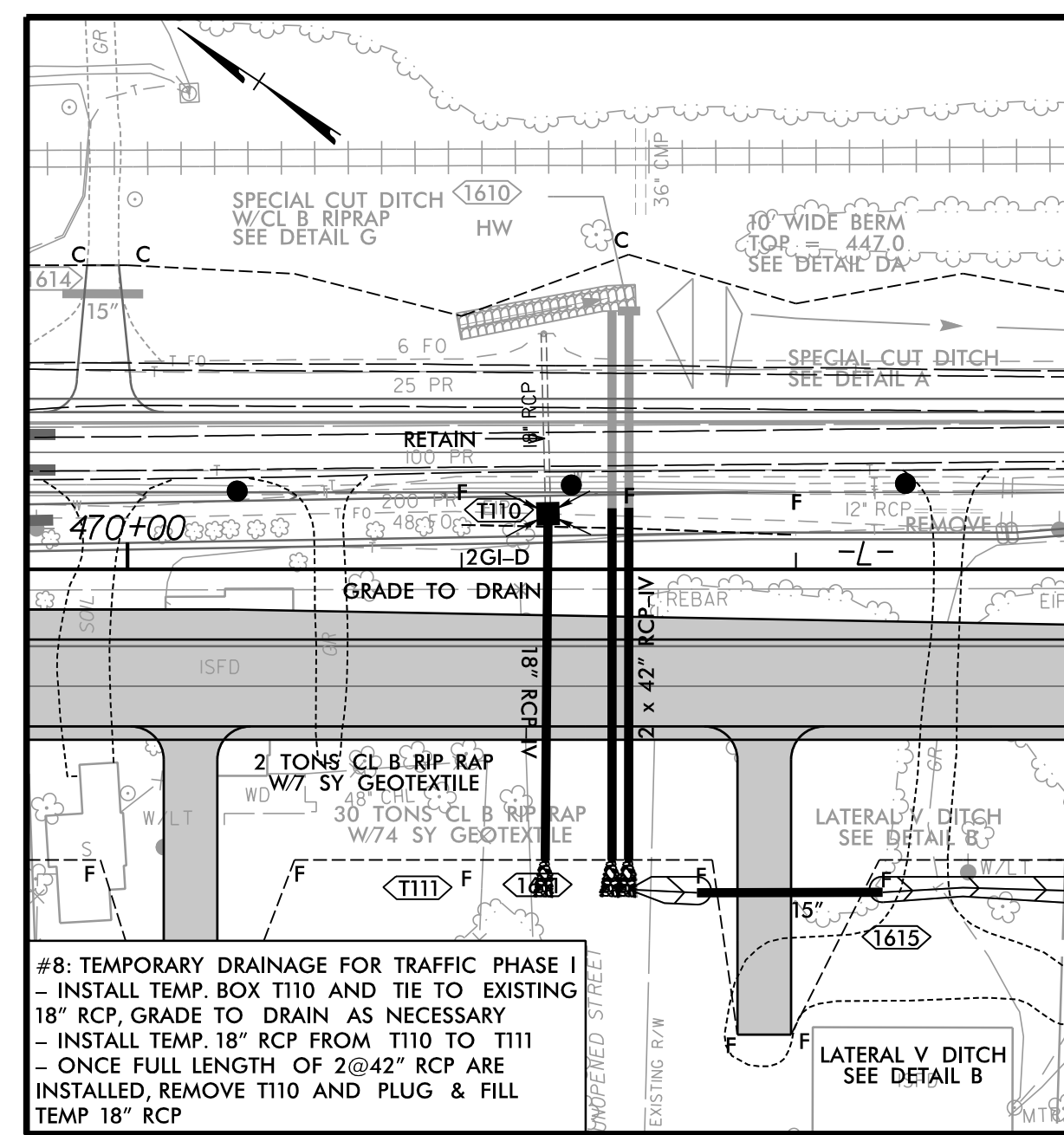
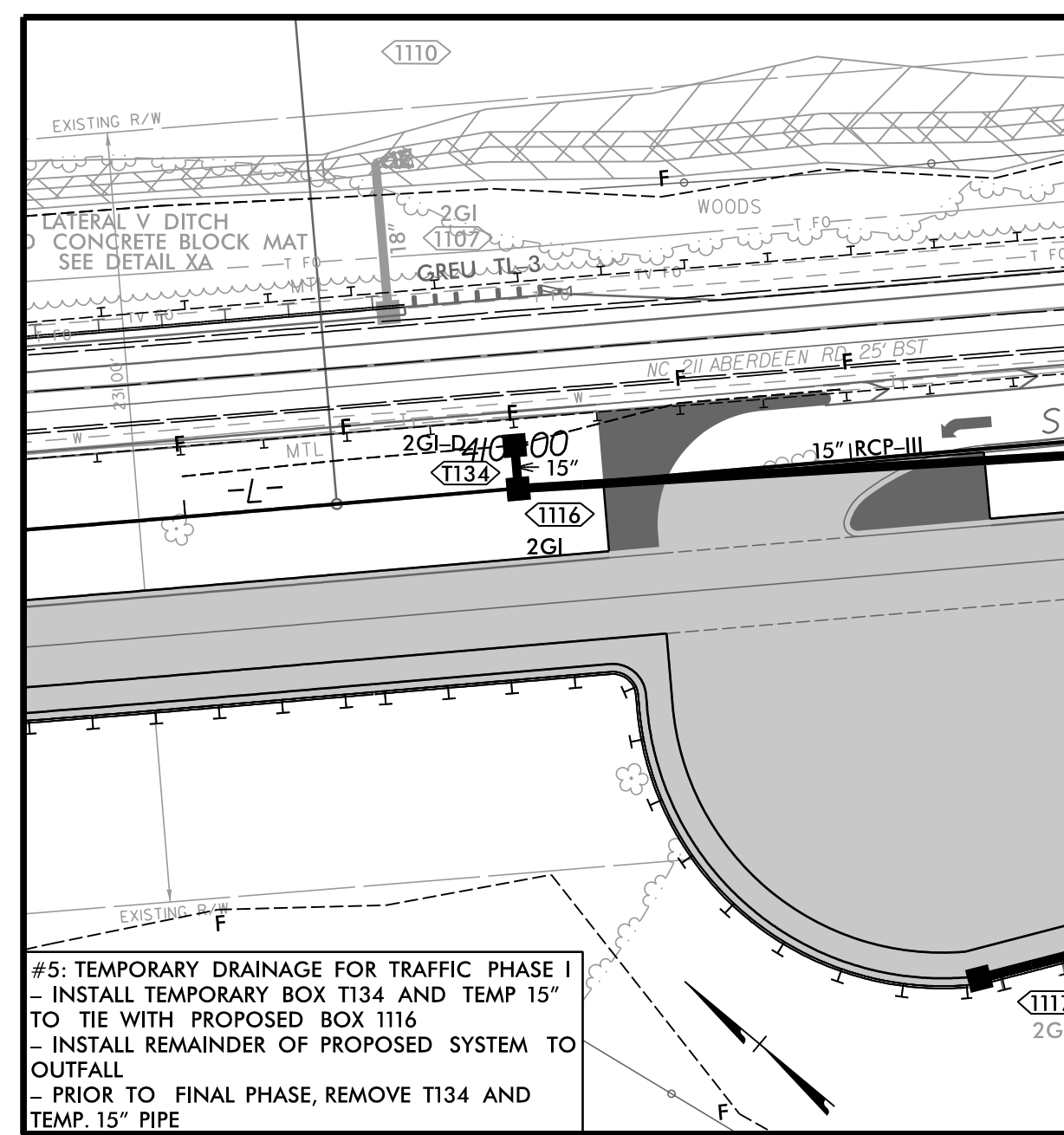
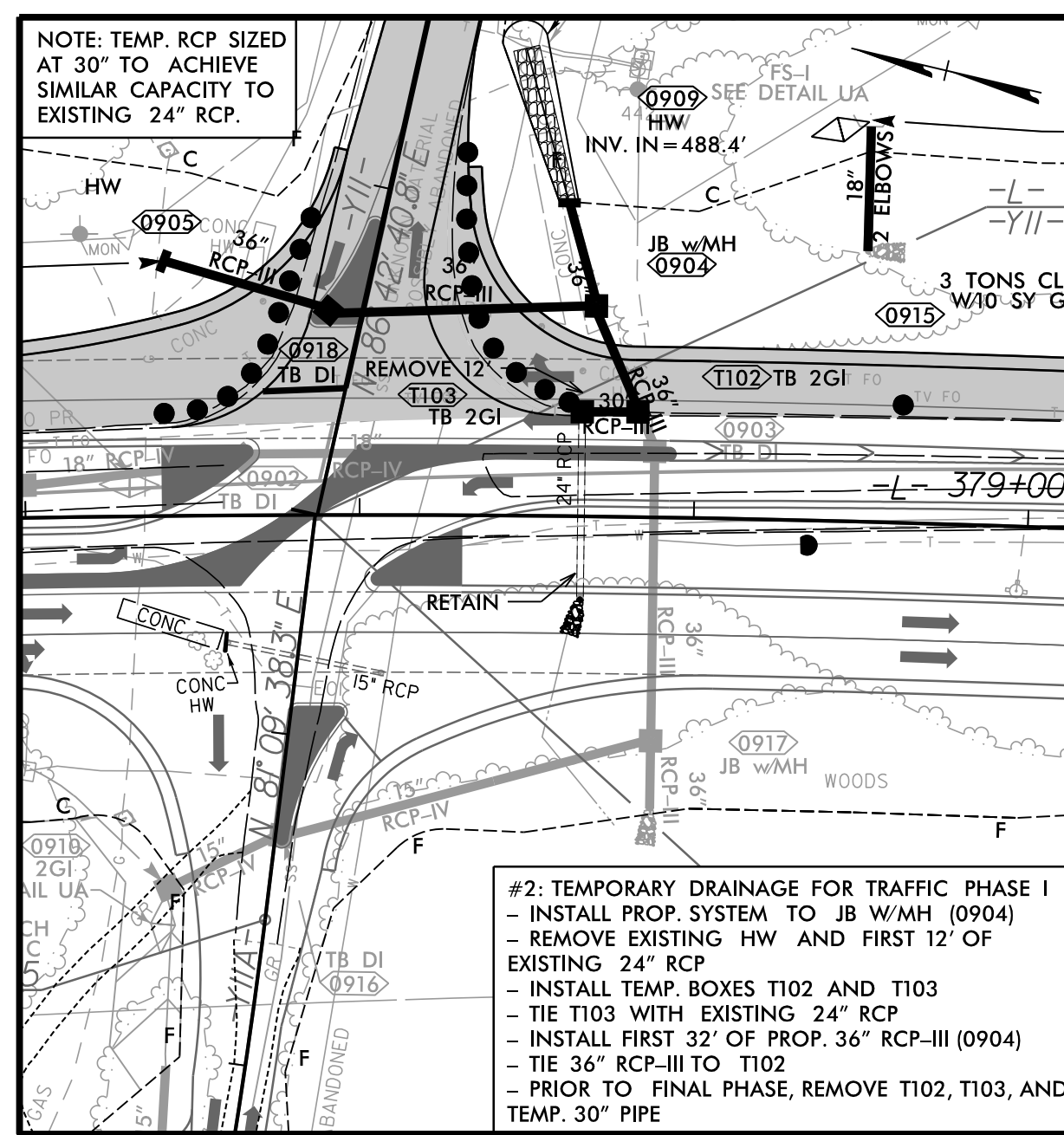
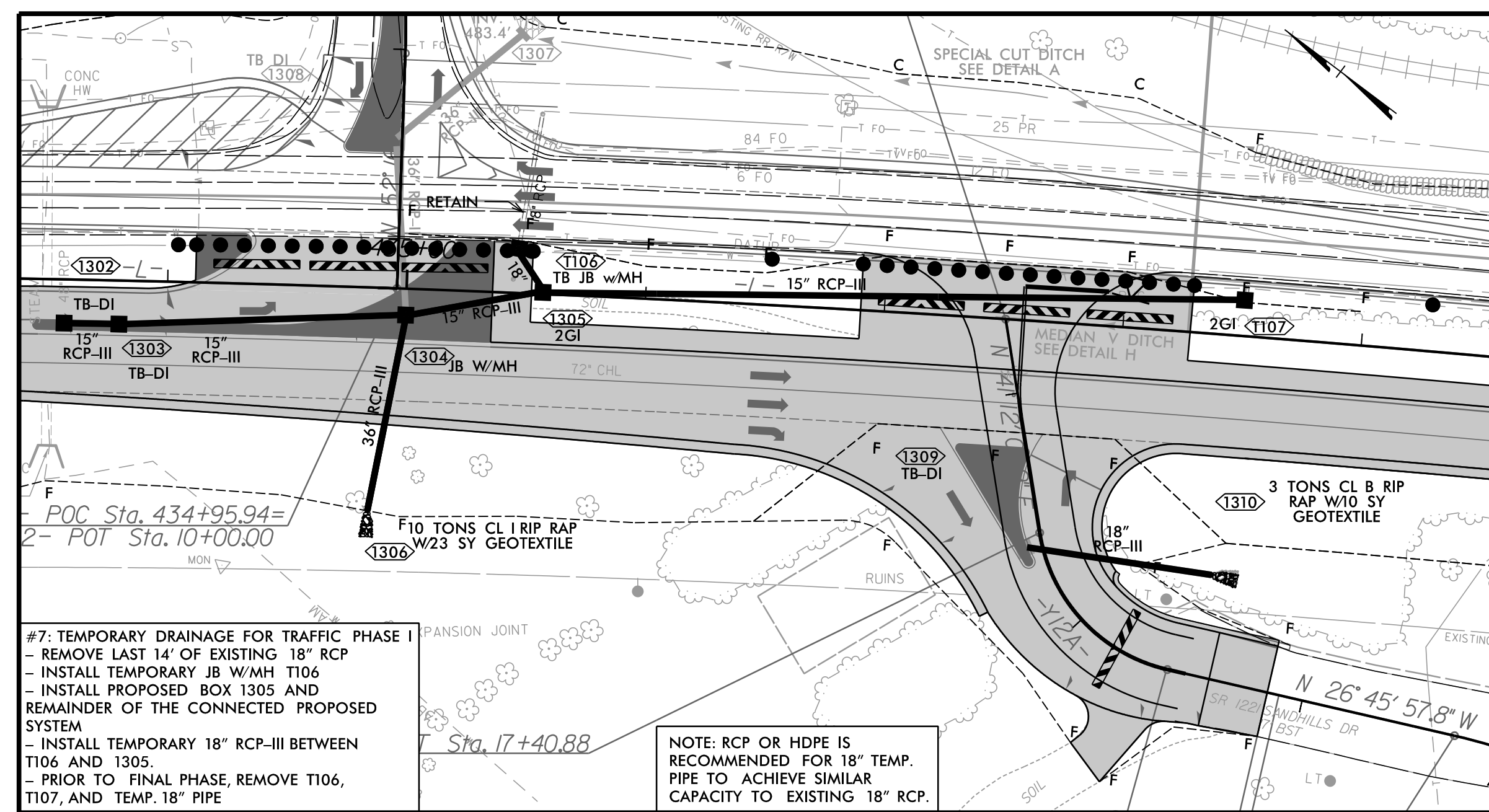
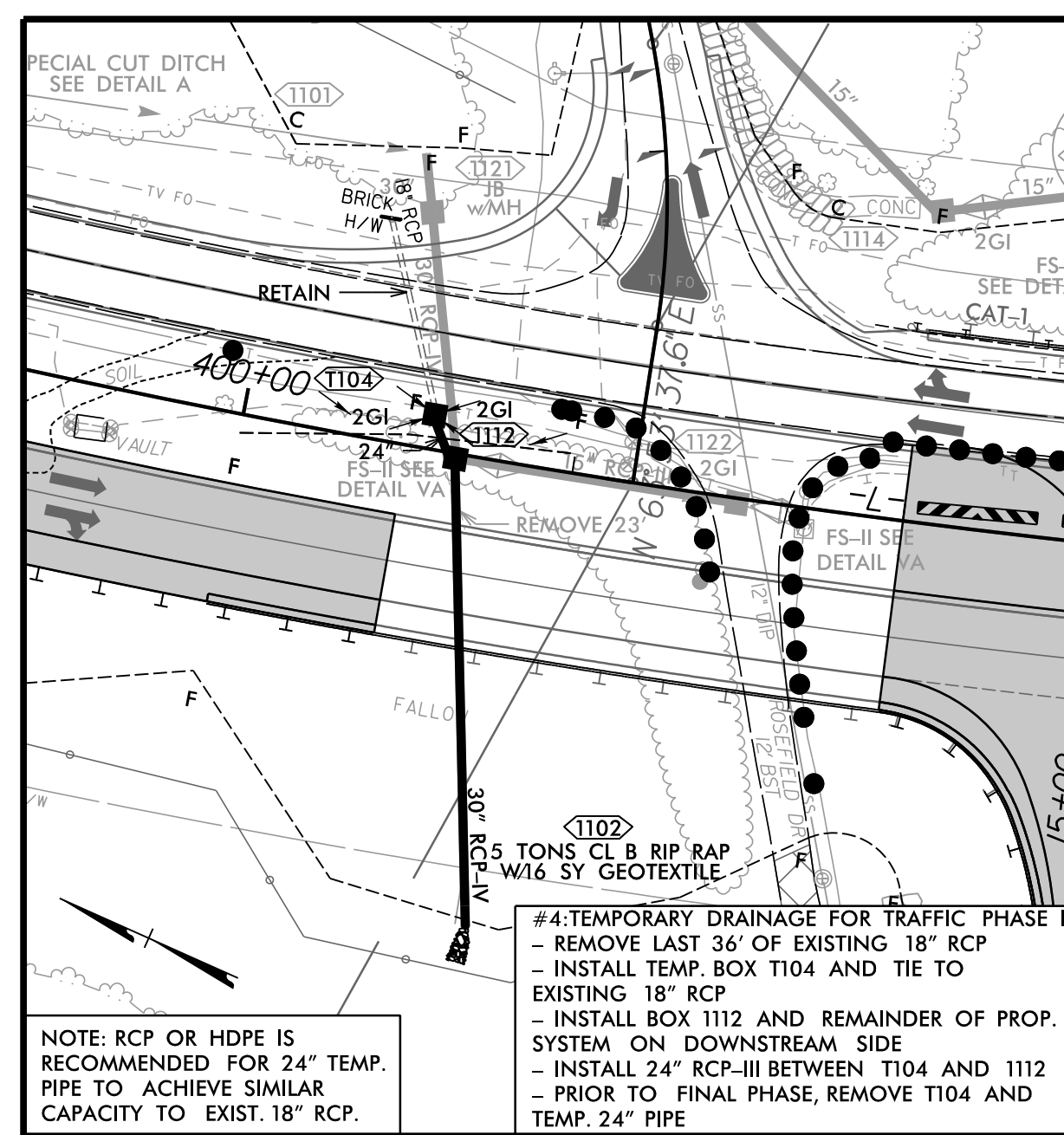
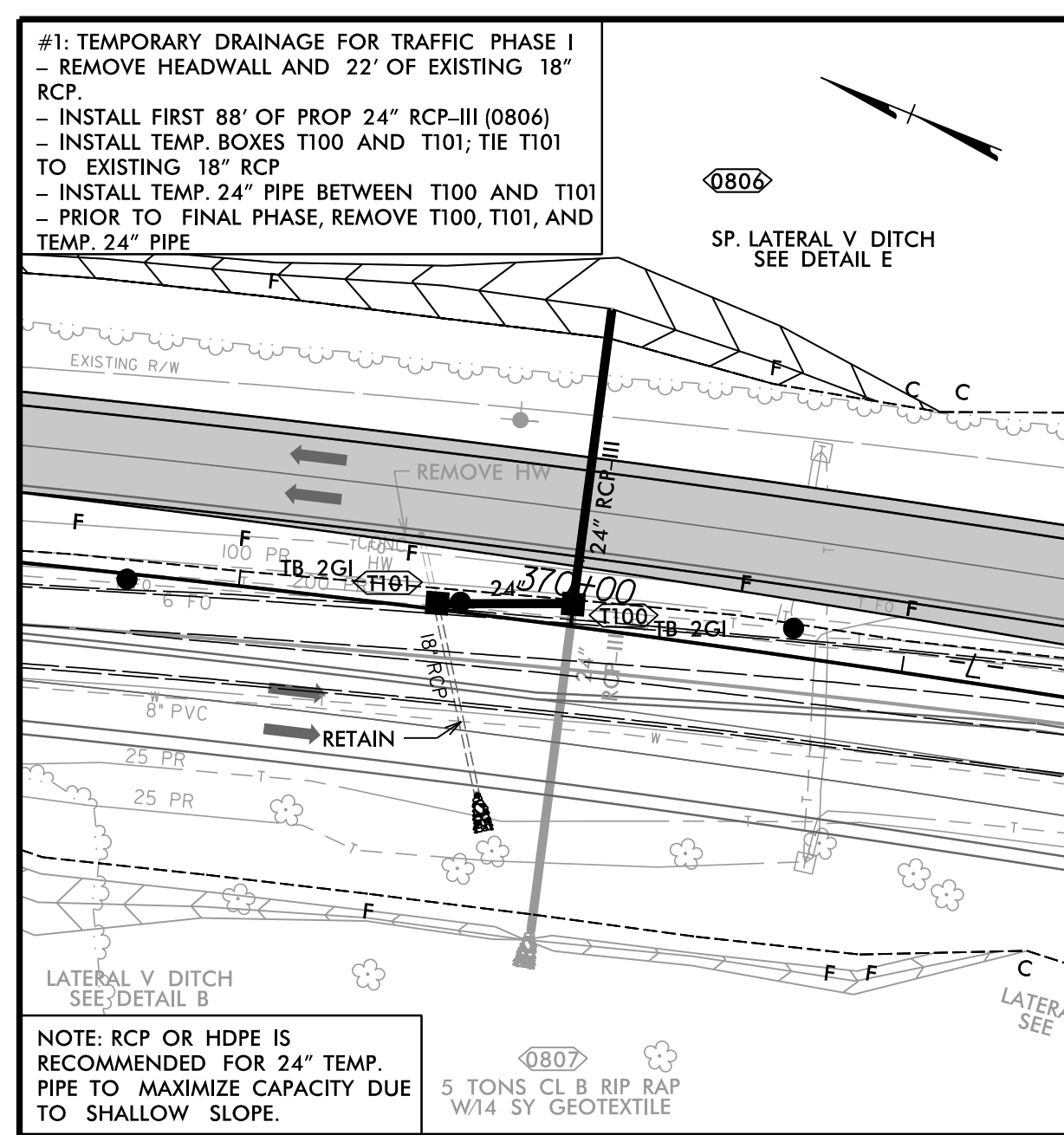
# TEMPORARY DRAINAGE PIPE LOCATION DETAILS FOR INFORMATION USE



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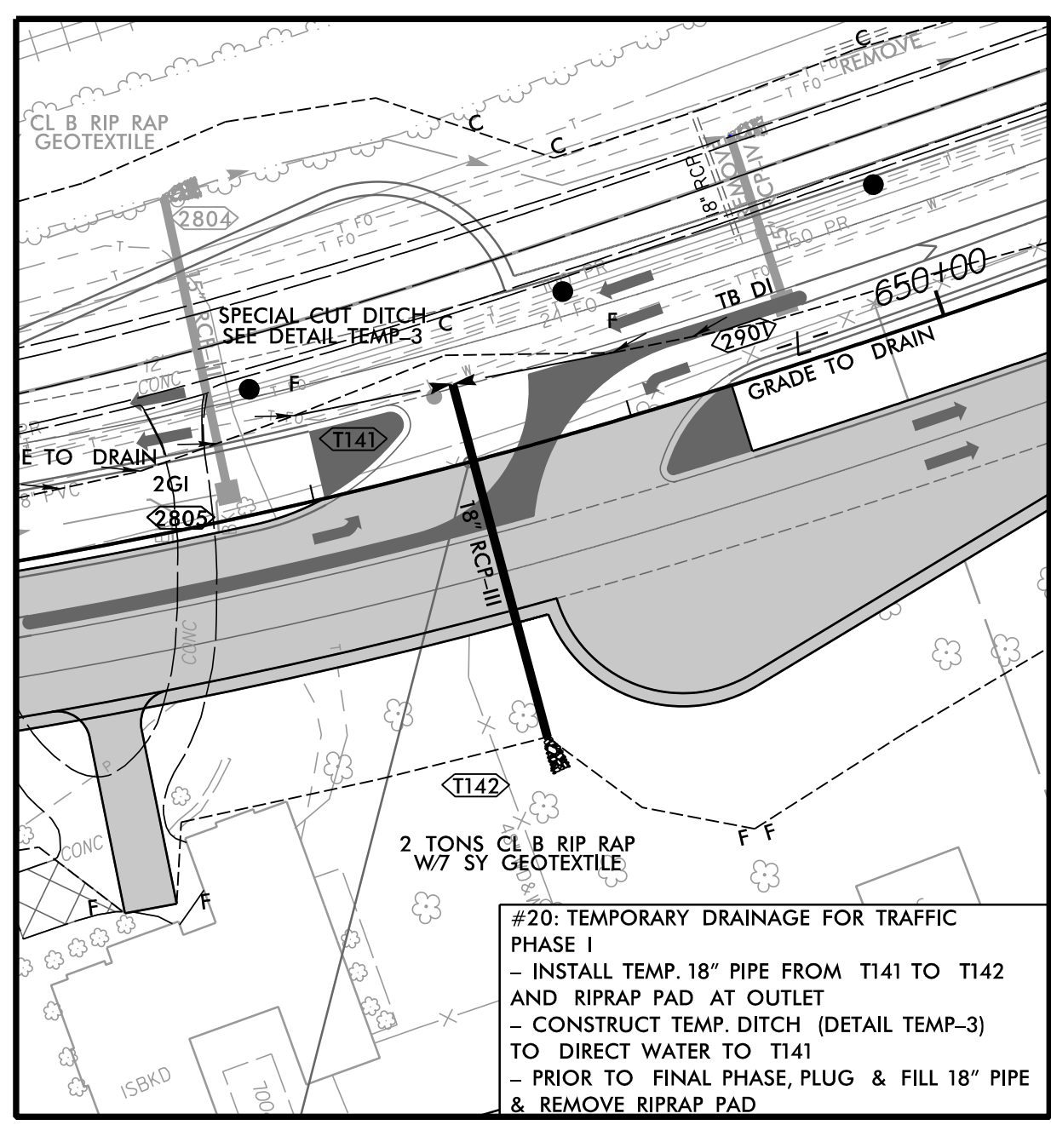
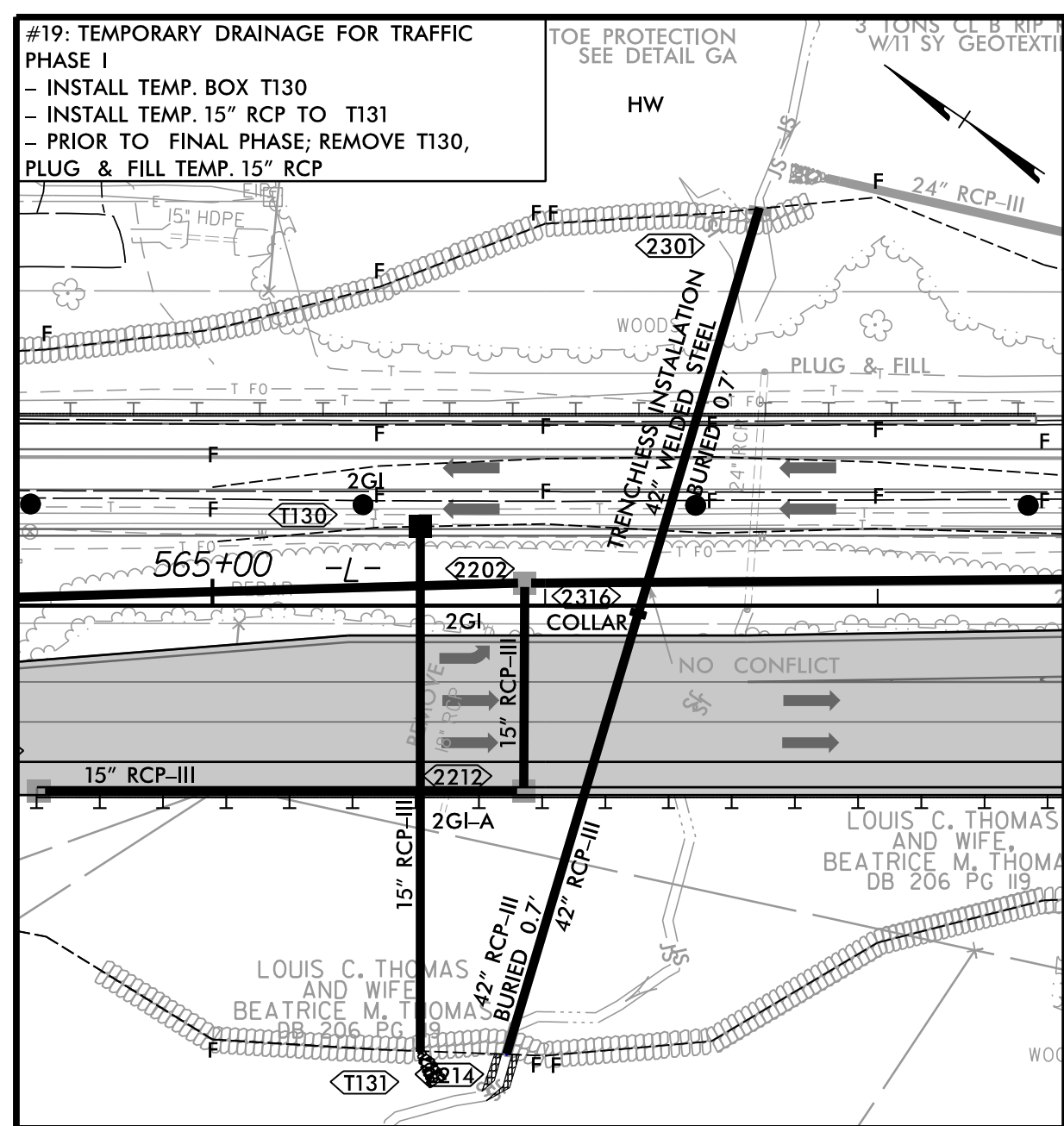
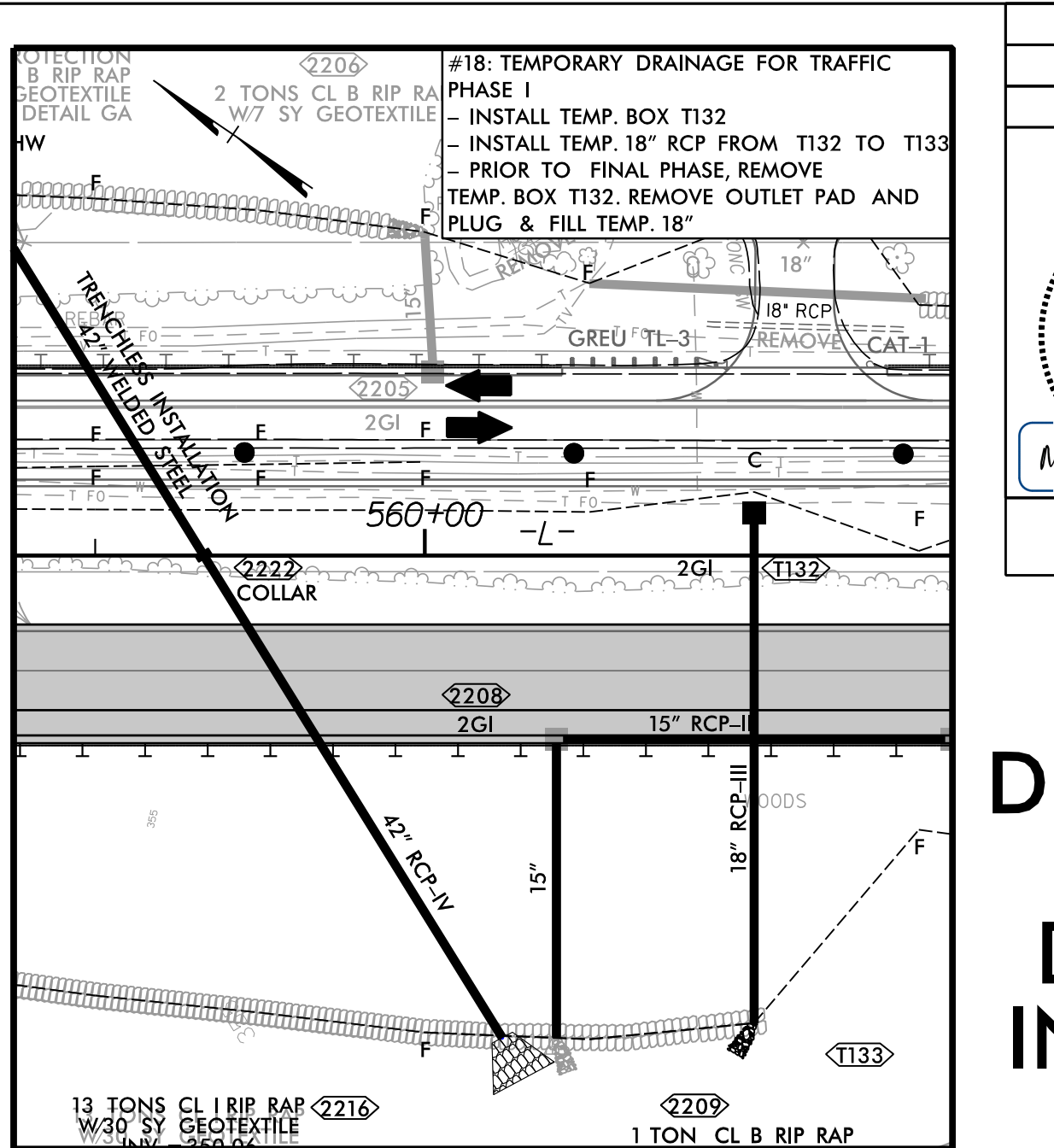
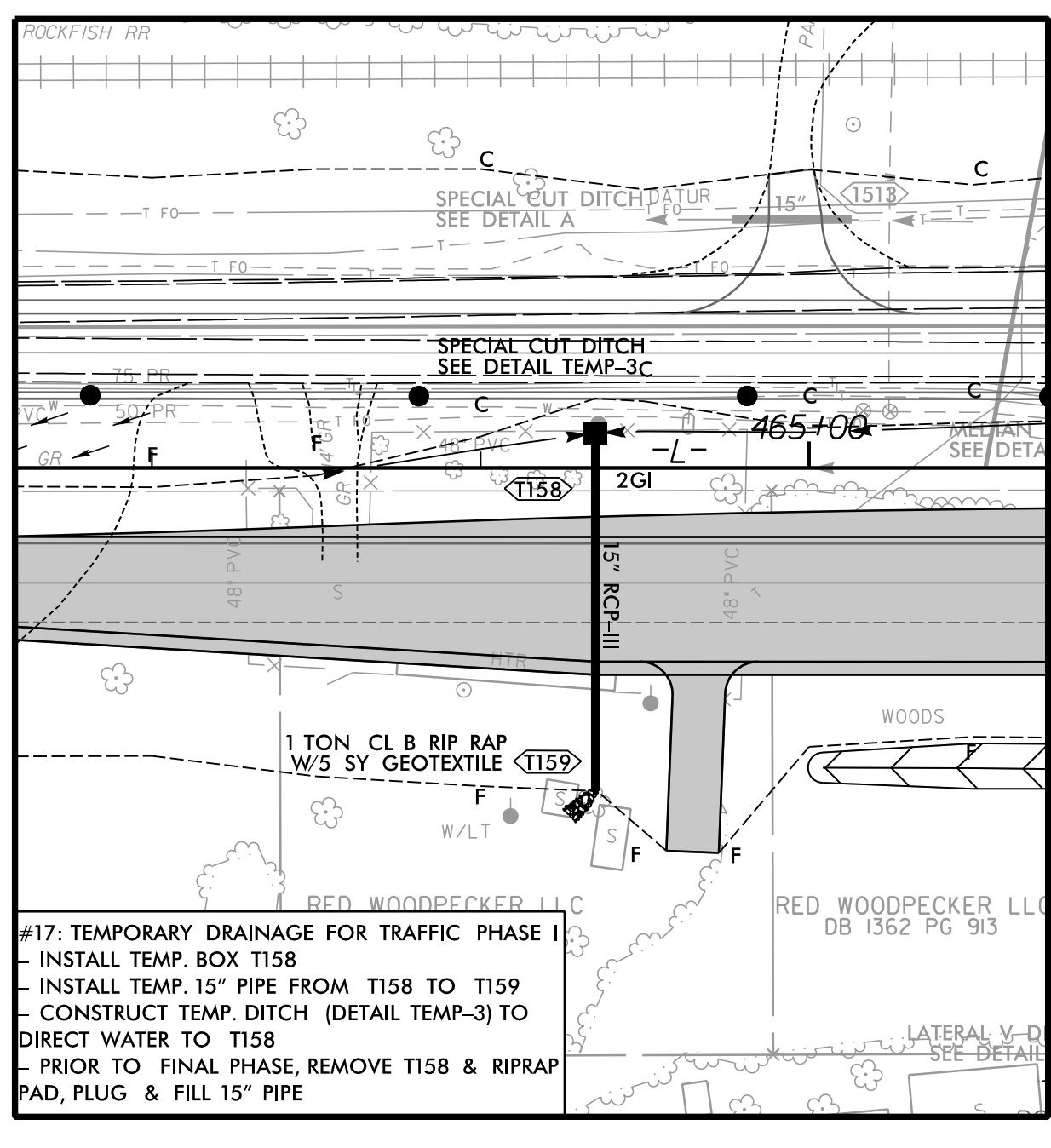
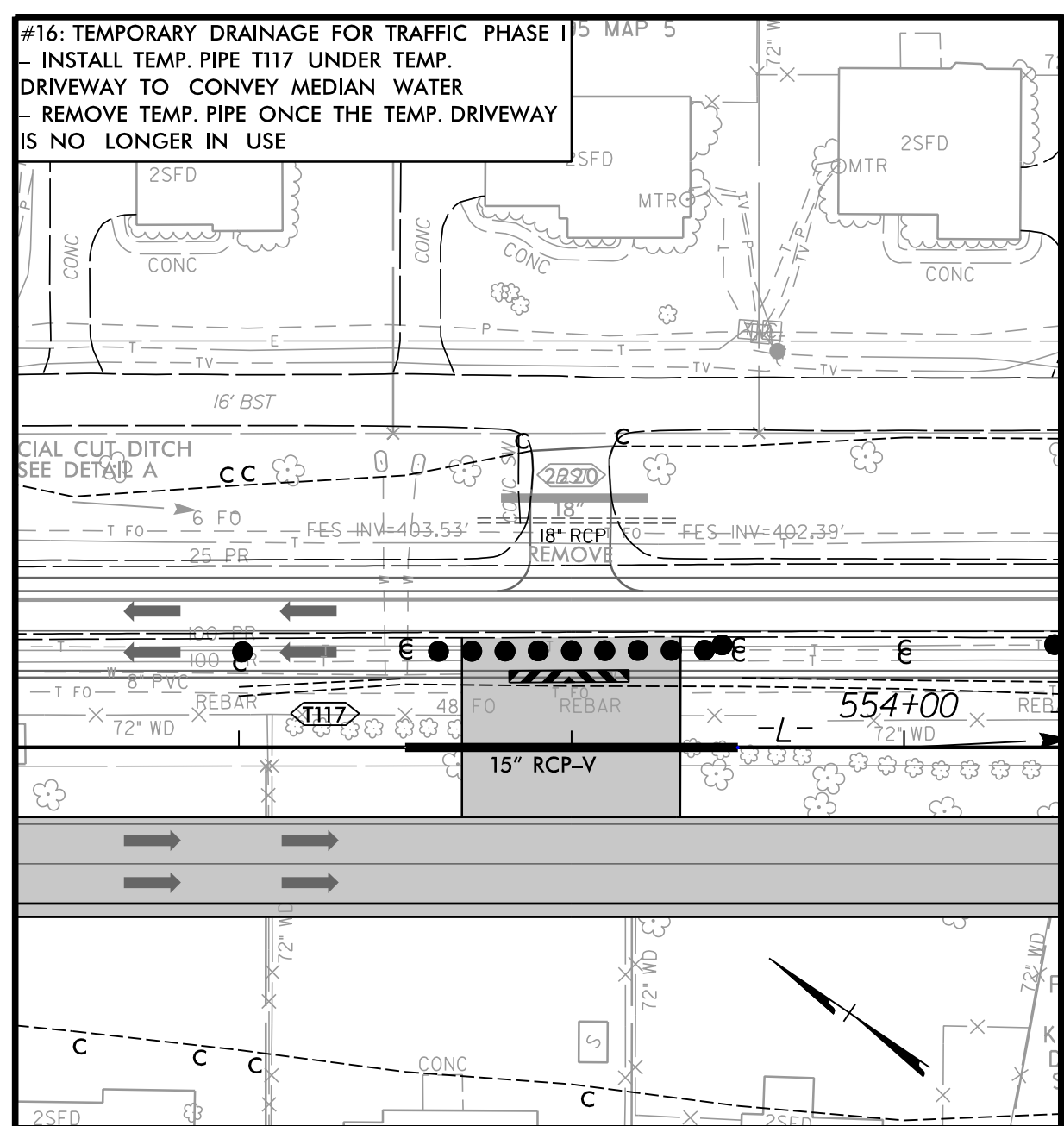
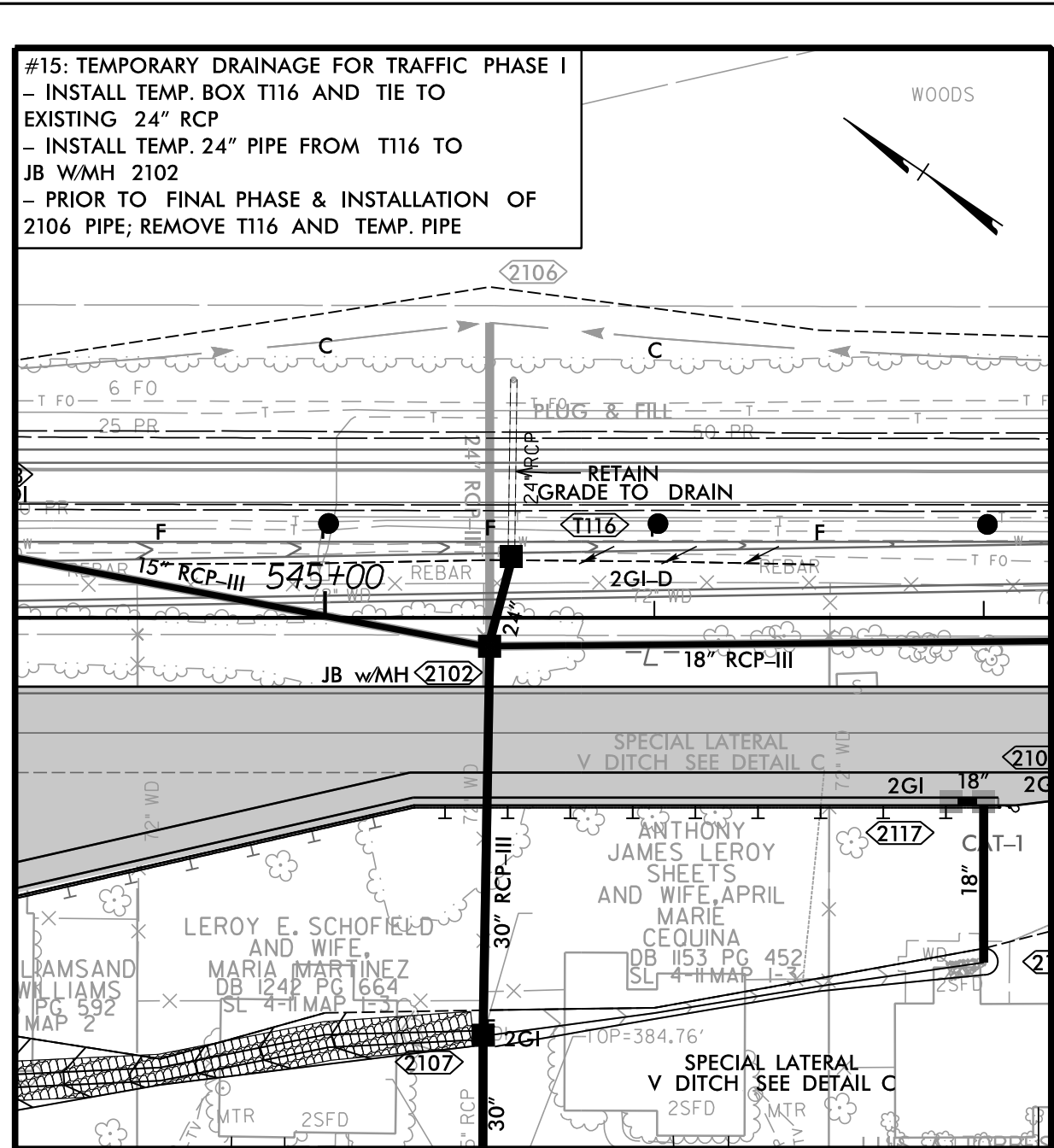
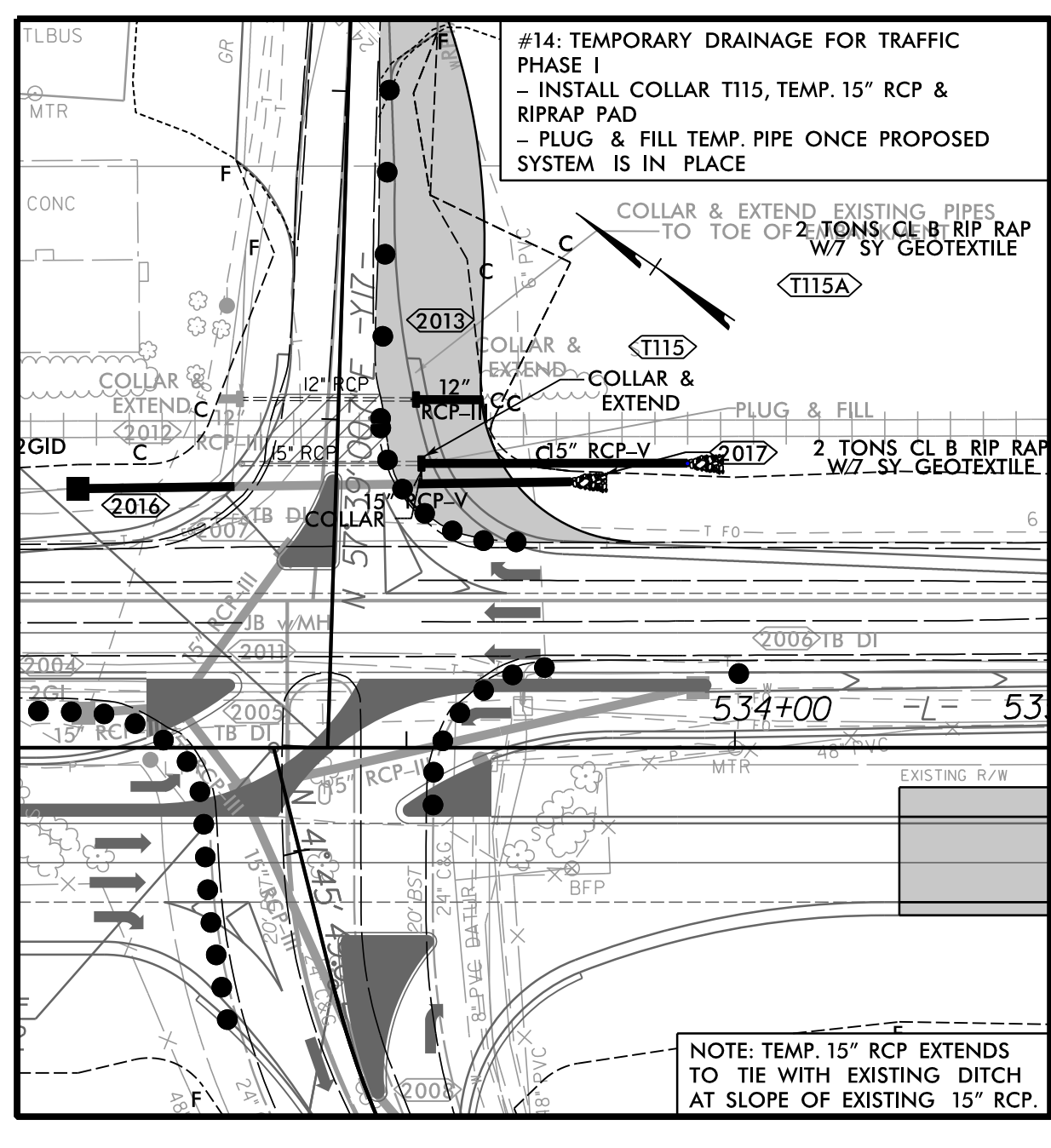
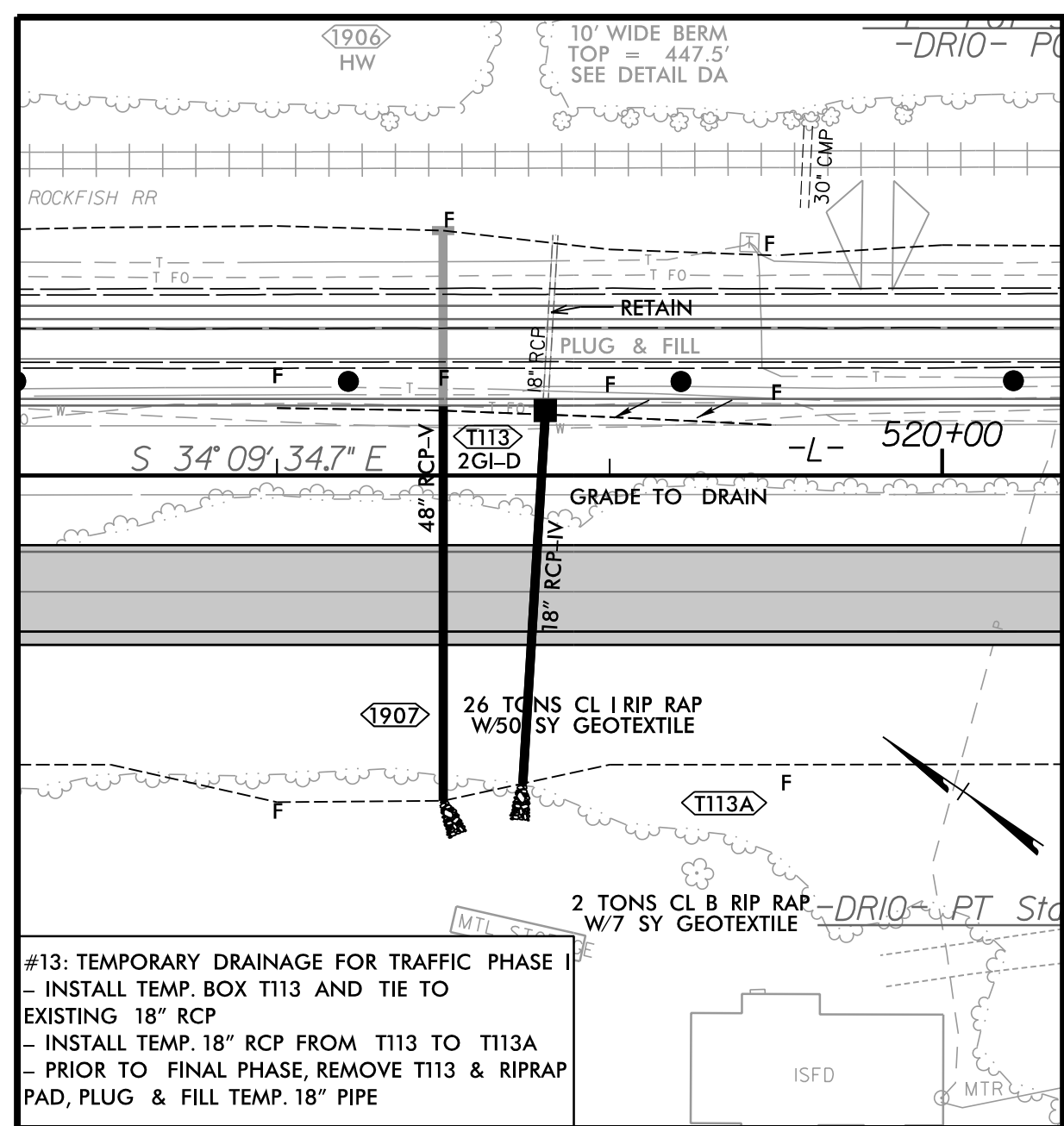
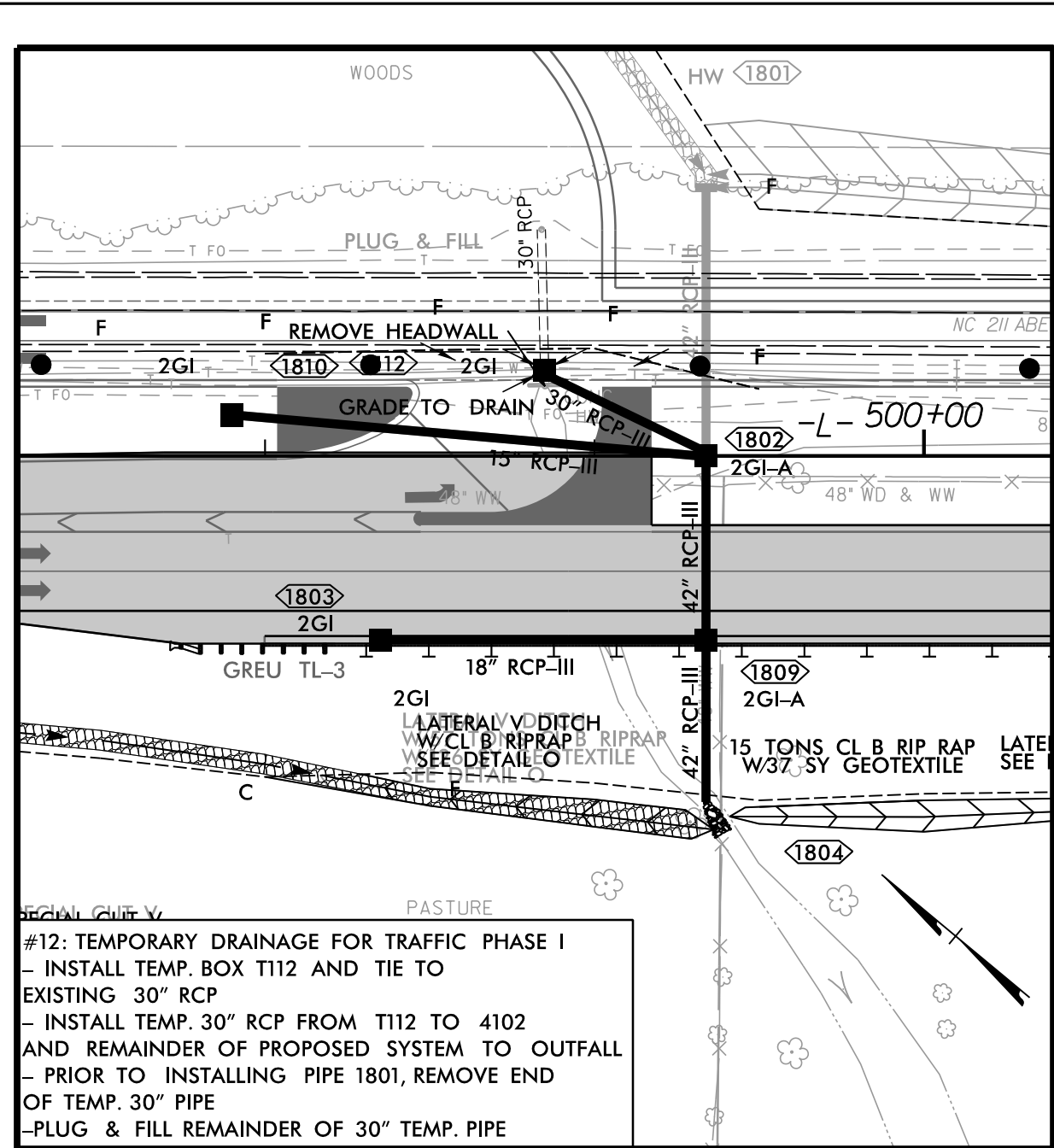
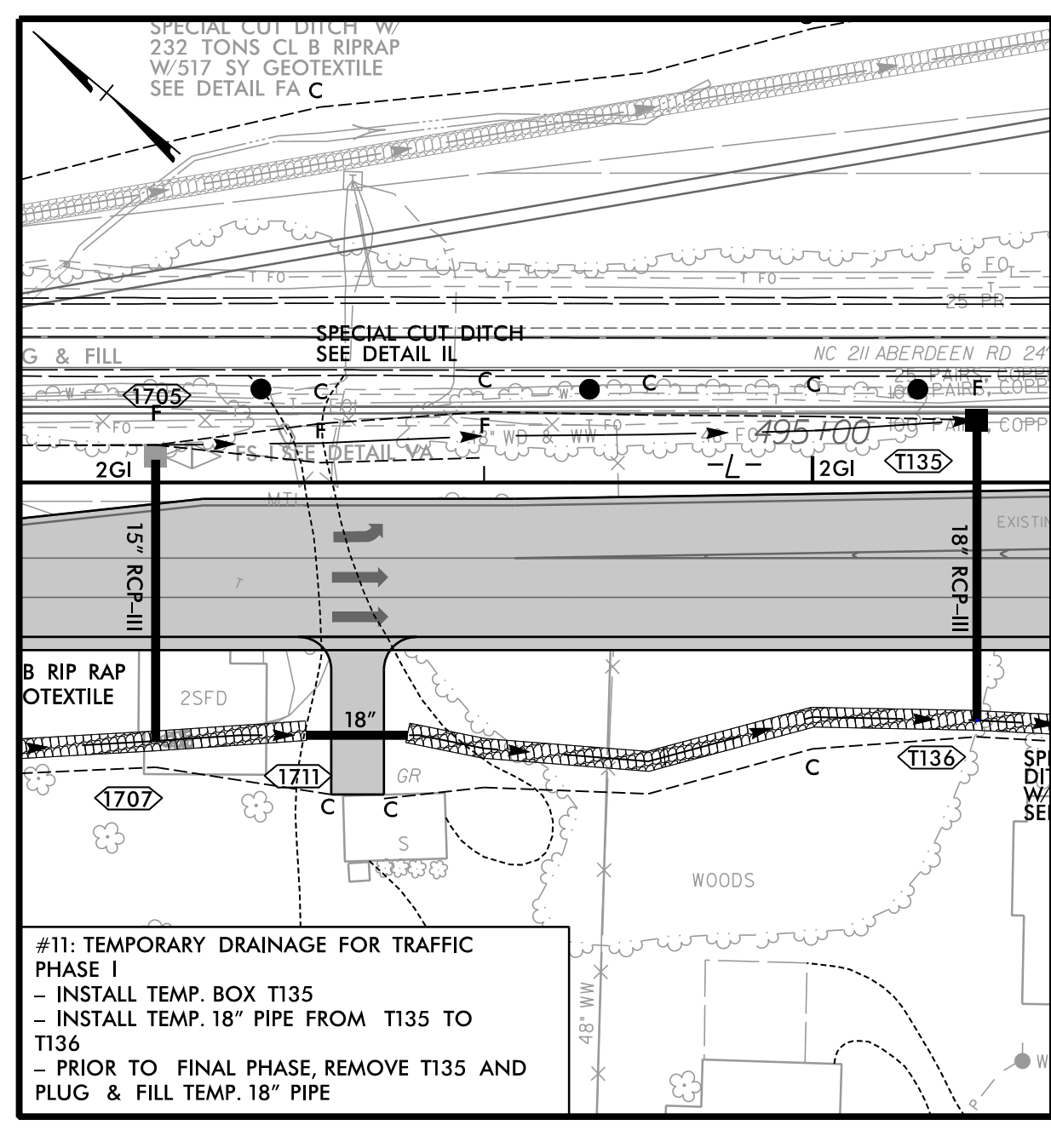
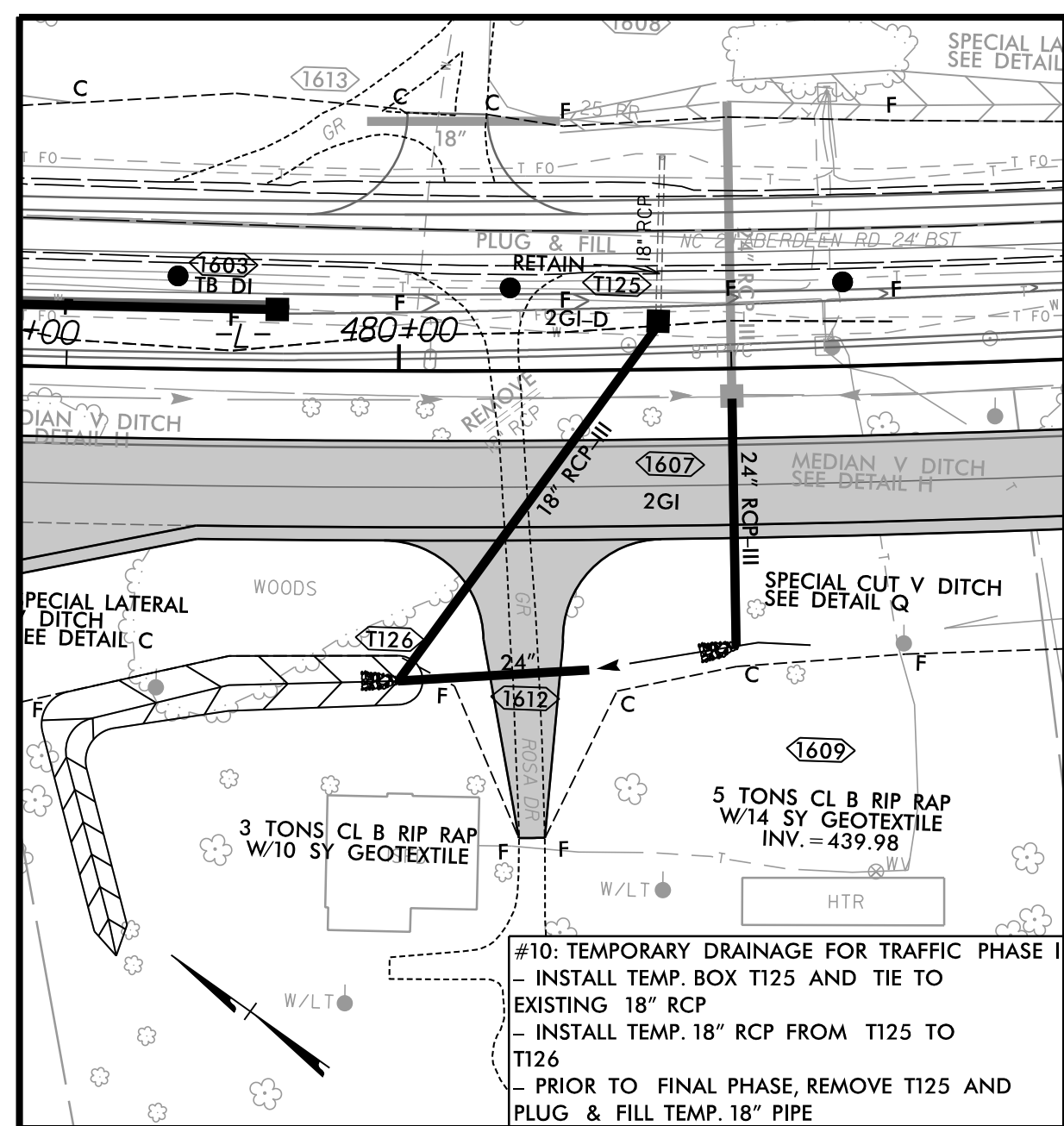
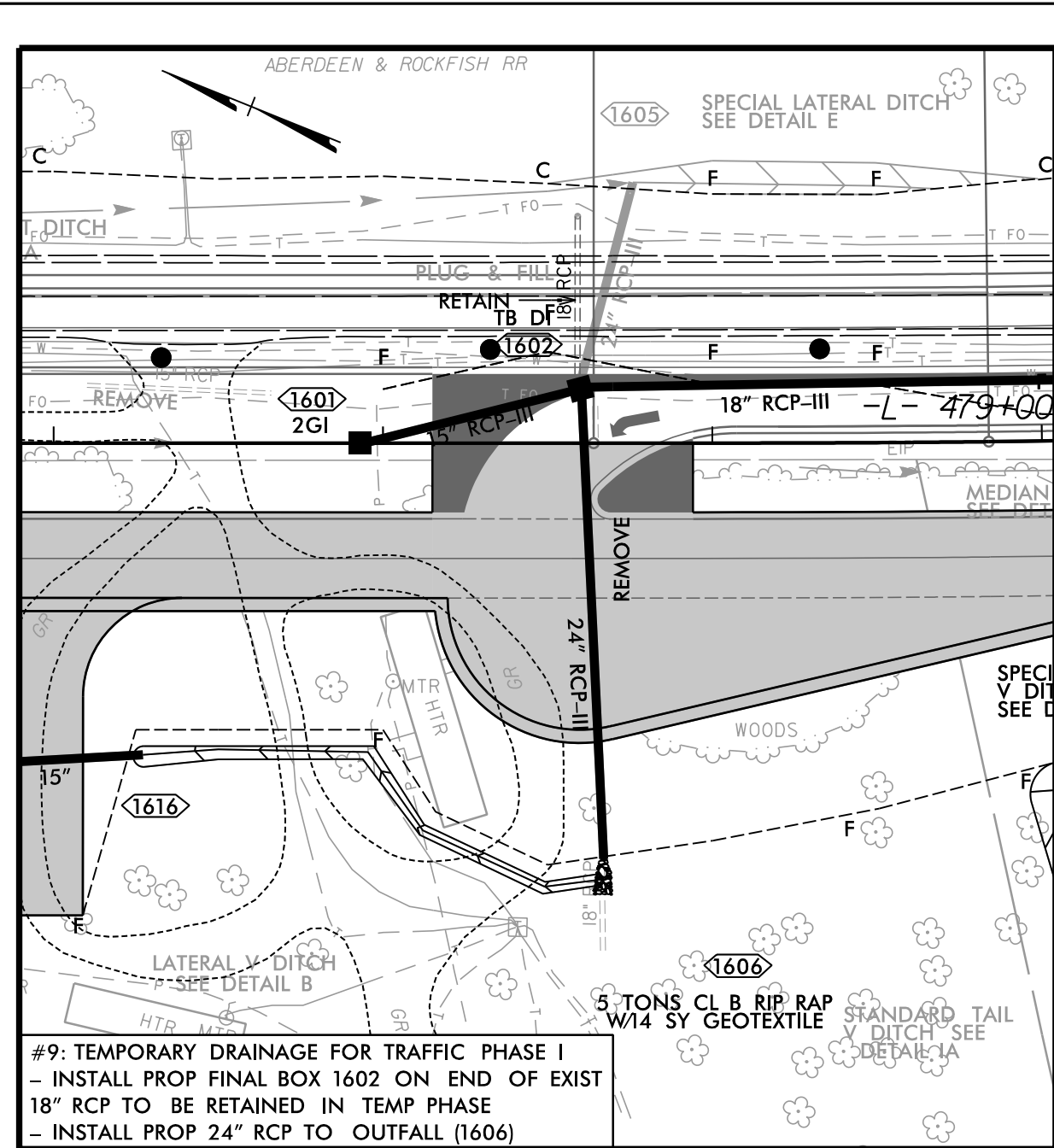


# TEMPORARY DRAINAGE PIPE LOCATION DETAILS FOR INFORMATION USE



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 8/28/2024  
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 cc-cocker





PROJECT REFERENCE NO. **R-5709C** SHEET NO. **2B-20**

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

DATE: 8/14/2024

SEAL 040878

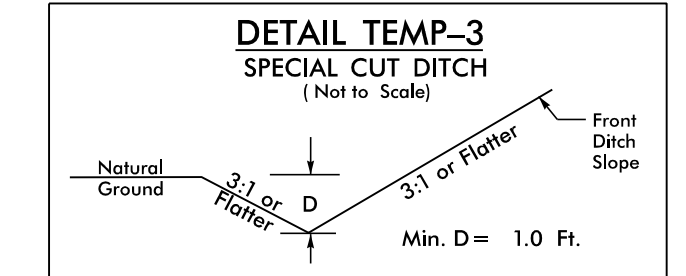
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ENGINEER

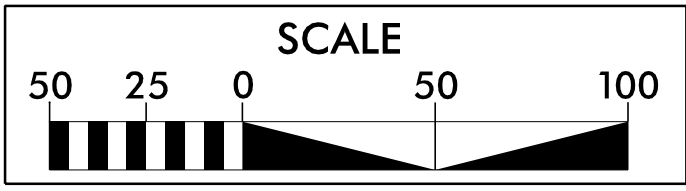
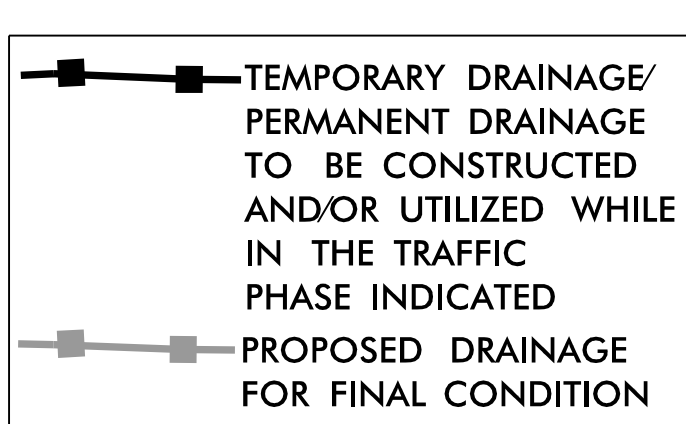
ENGINEER

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# TEMPORARY DRAINAGE PIPE LOCATION DETAILS FOR INFORMATION USE



- L- (TEMP) FROM STA. 463+50 TO 464+35 LT BEGIN ELEV = 453.22' END ELEV = 452.00'
- L- (TEMP) FROM 464+35 TO STA. 466+00 LT BEGIN ELEV = 452.00' END ELEV = 453.52'
- L- (TEMP) FROM STA. 648+00 TO STA. 648+50 LT BEGIN ELEV = 365.58' END ELEV = 365.40'
- L- (TEMP) FROM STA. 648+50 TO STA. 649+00 LT BEGIN ELEV = 365.40' END ELEV = 365.58'



**RK&K**

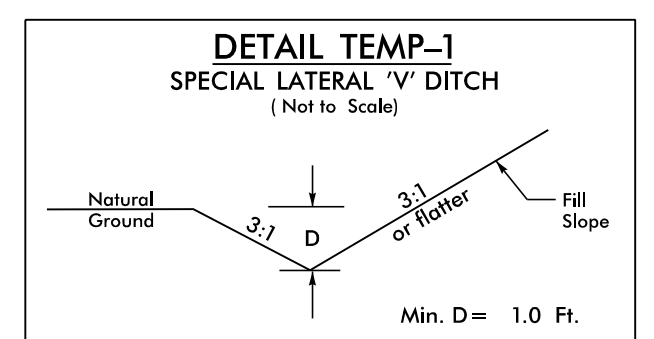
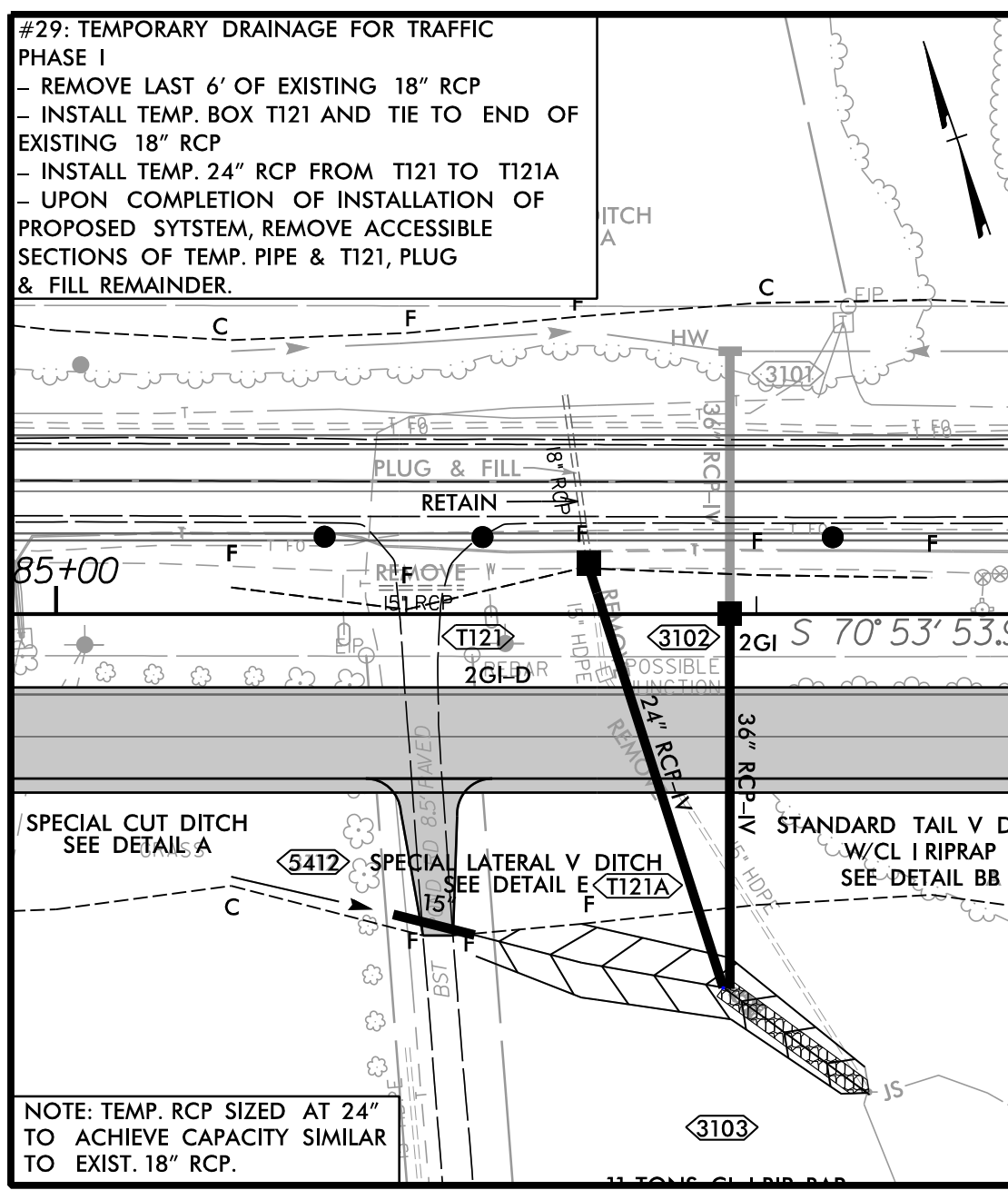
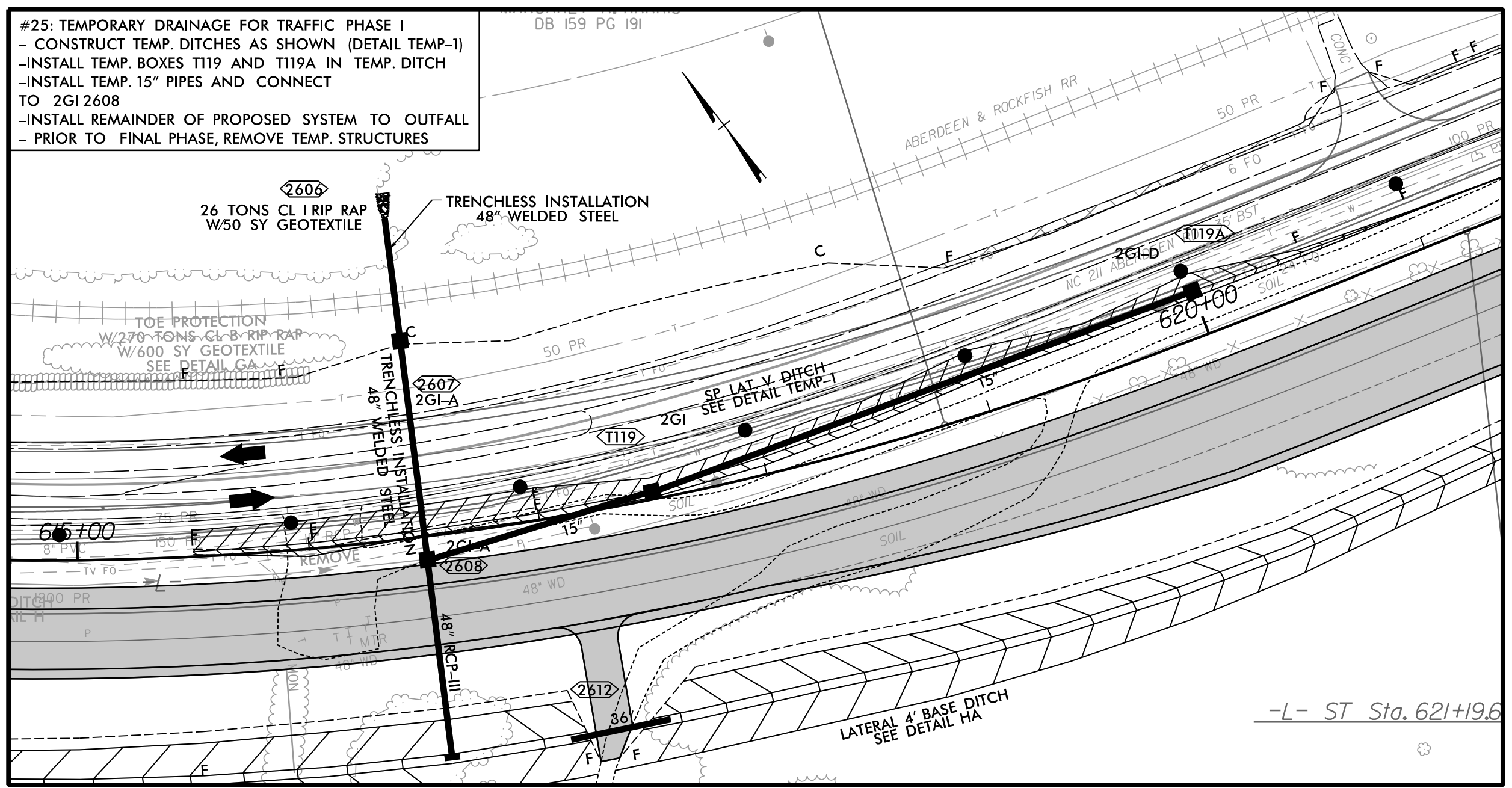
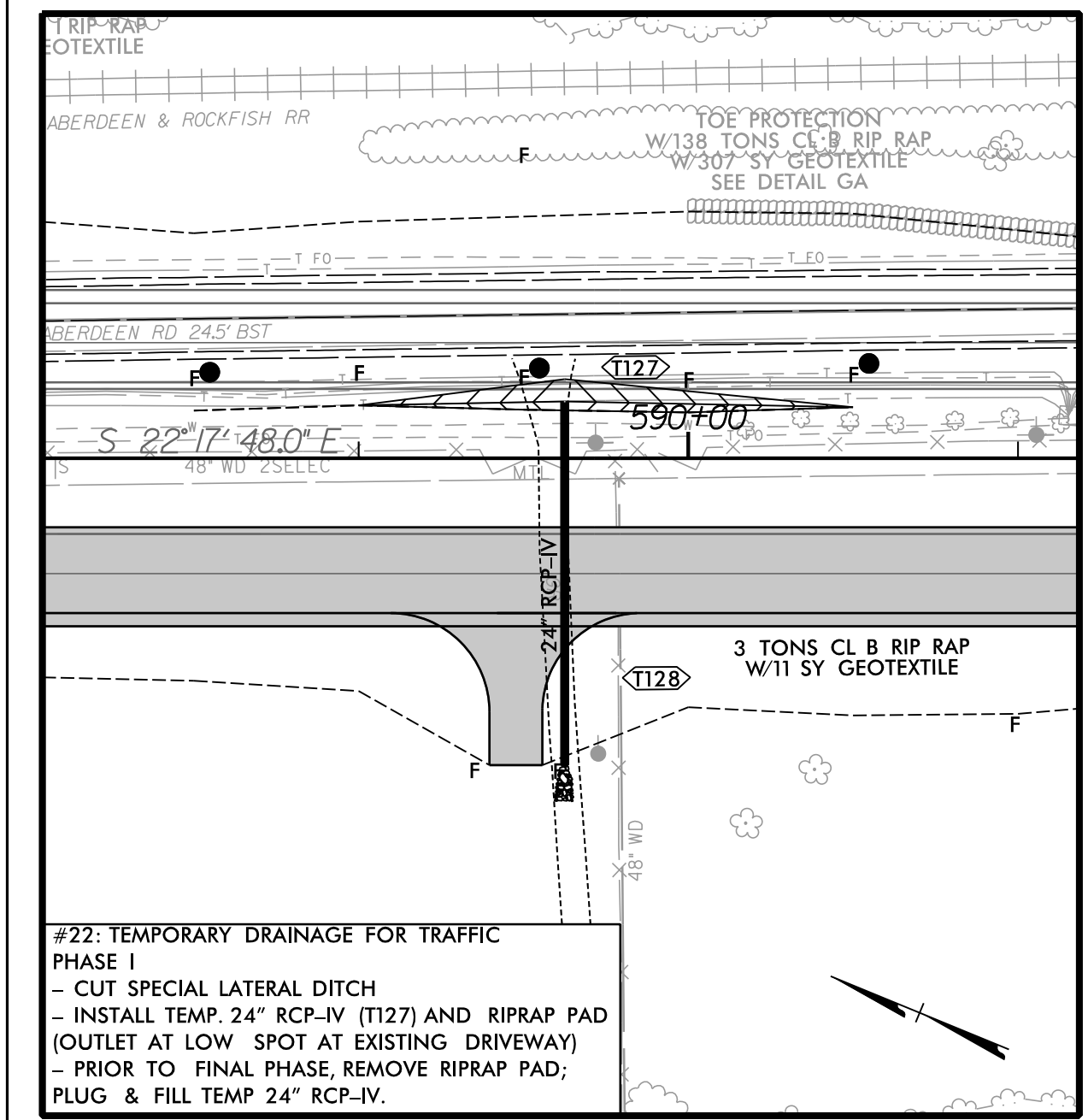
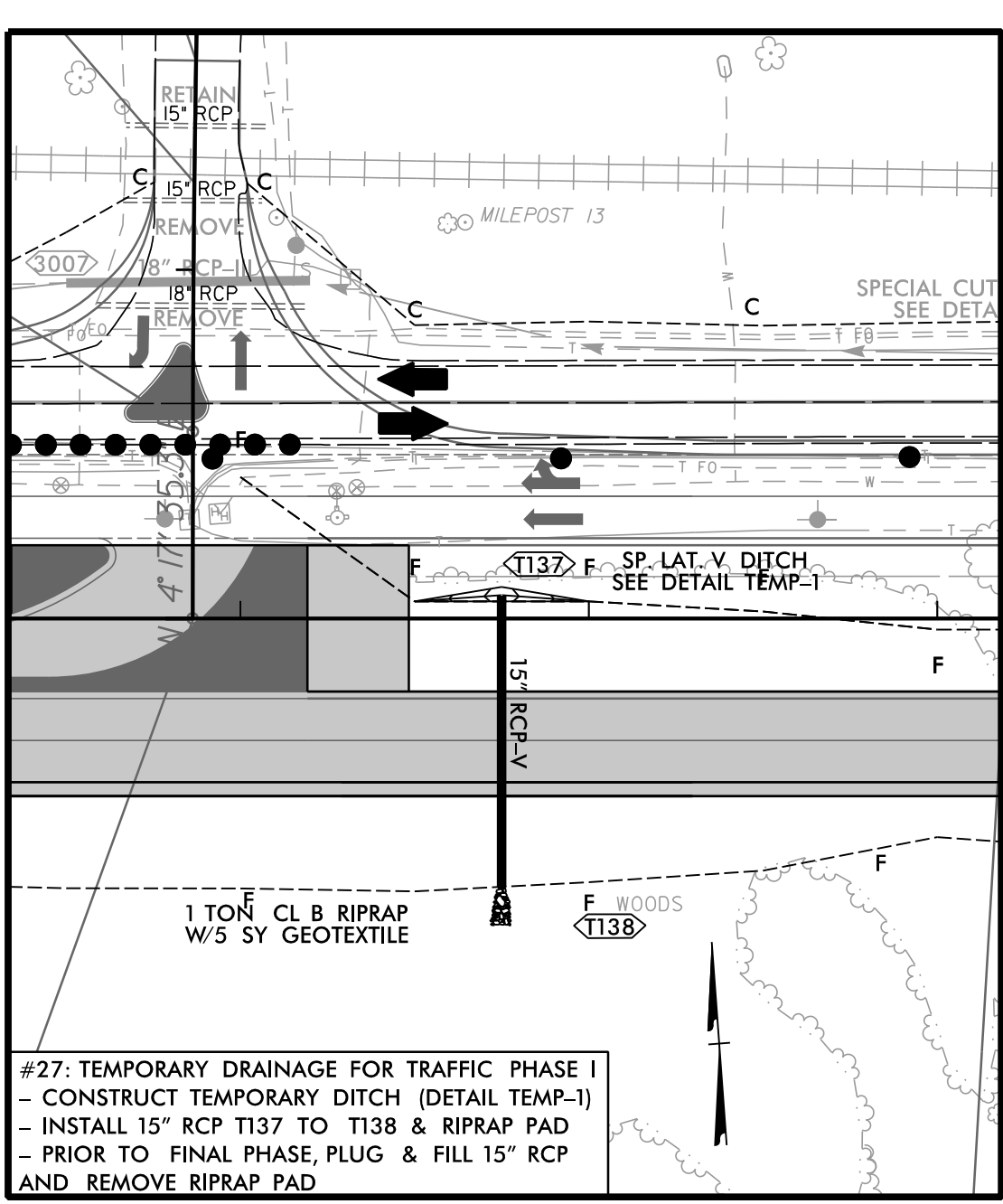
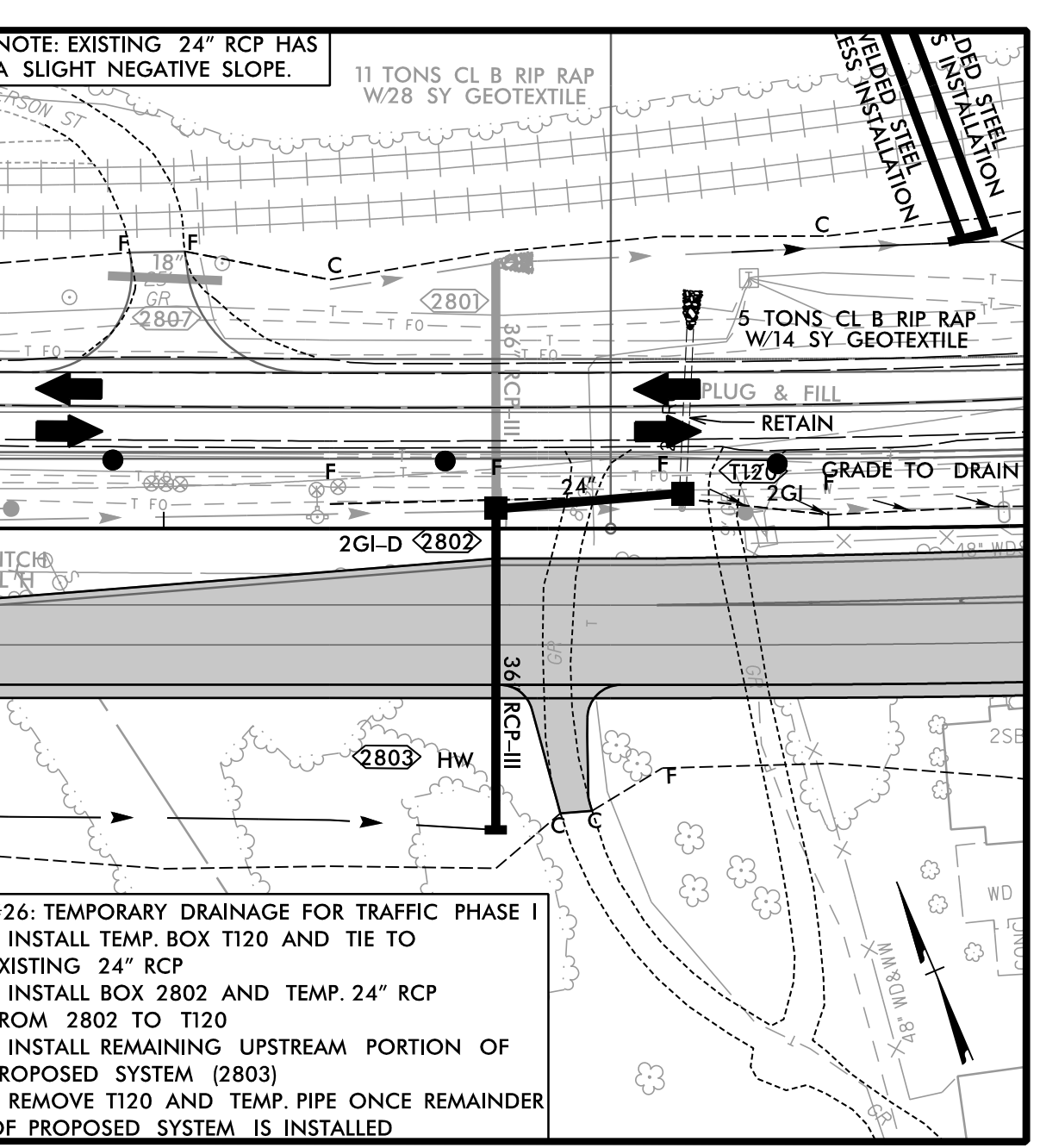
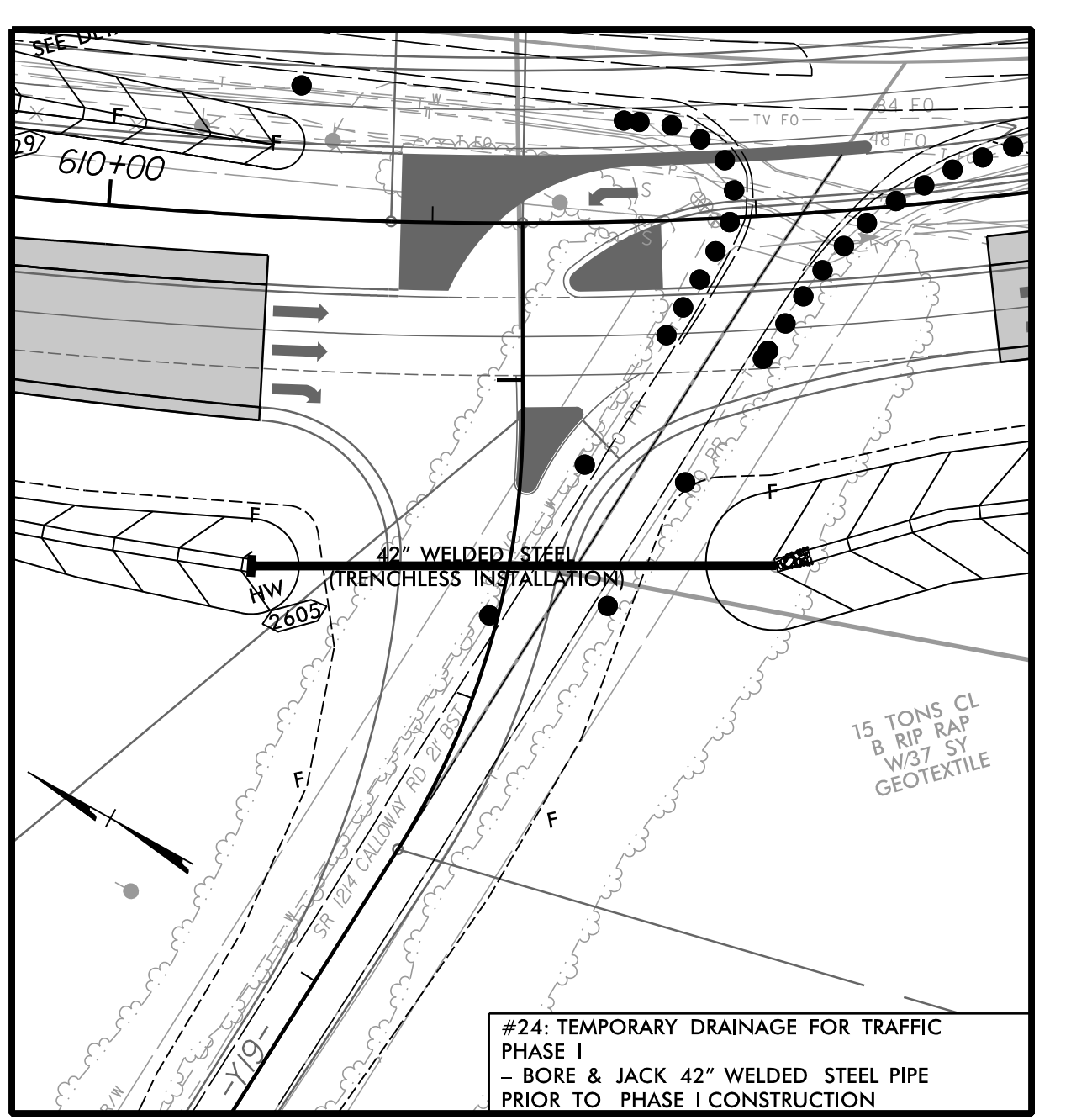
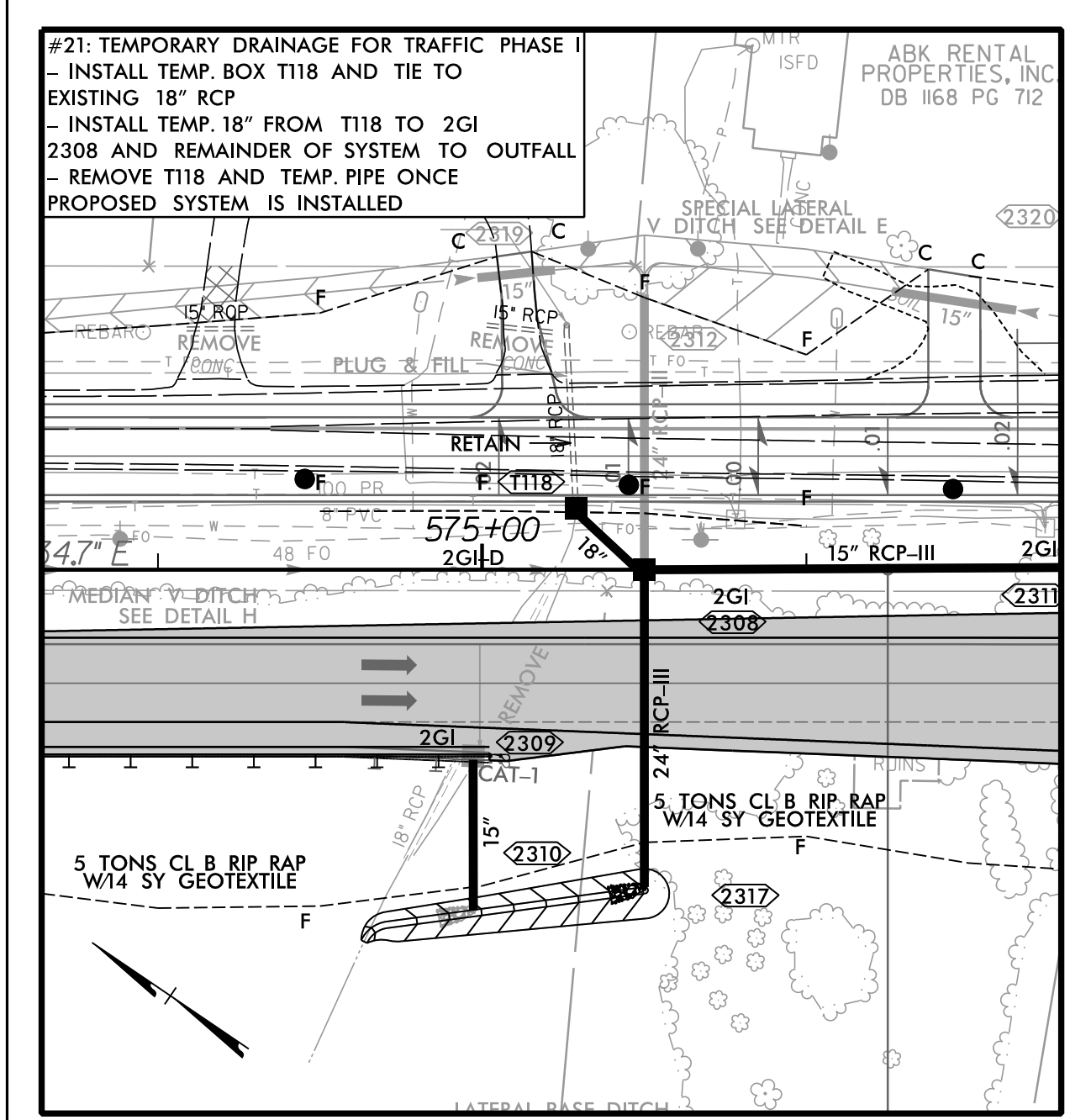
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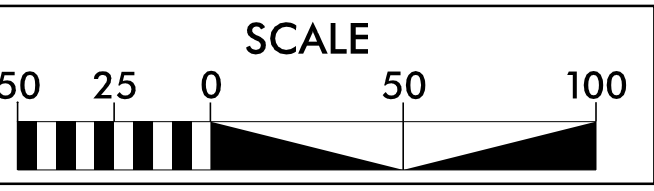
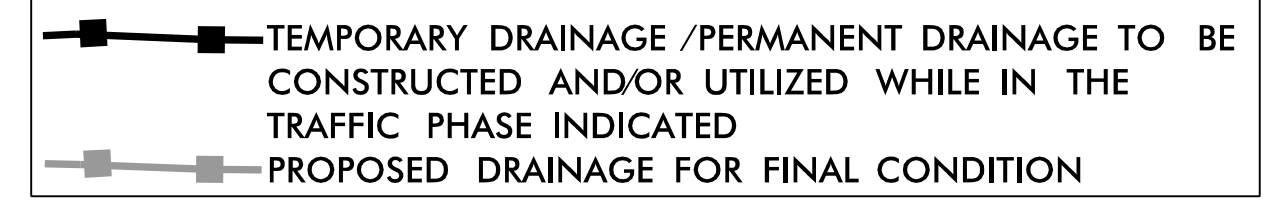
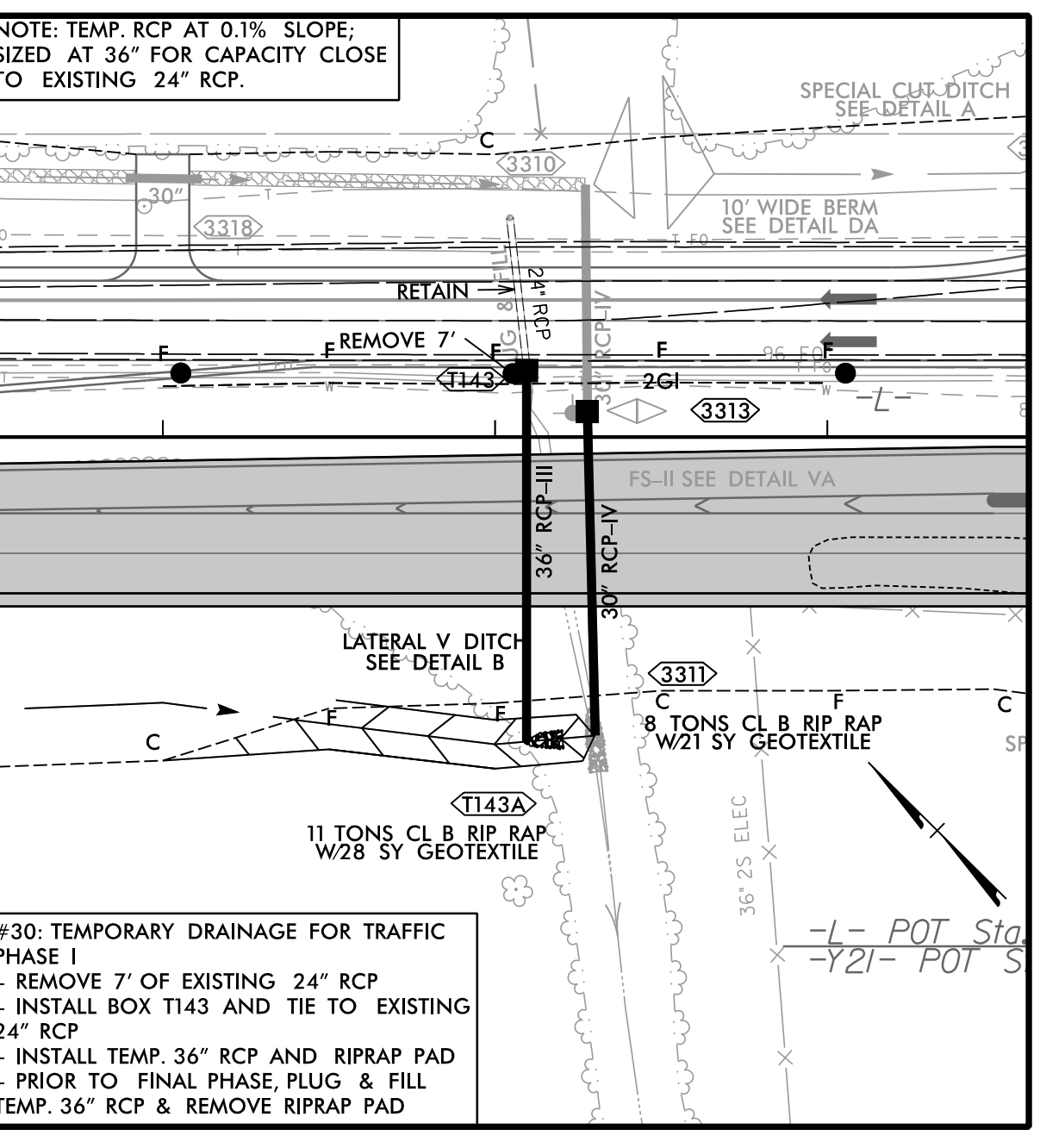
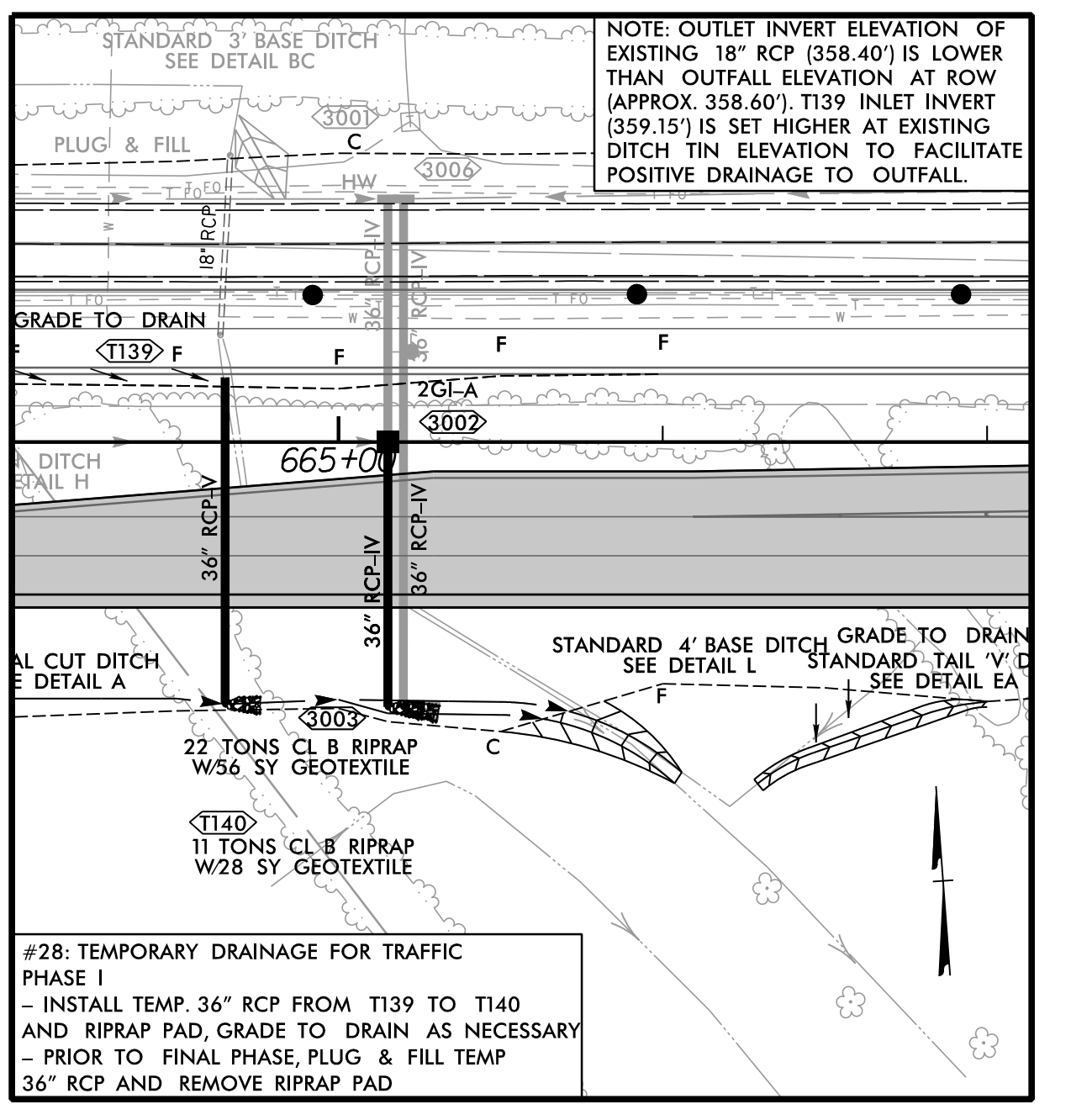
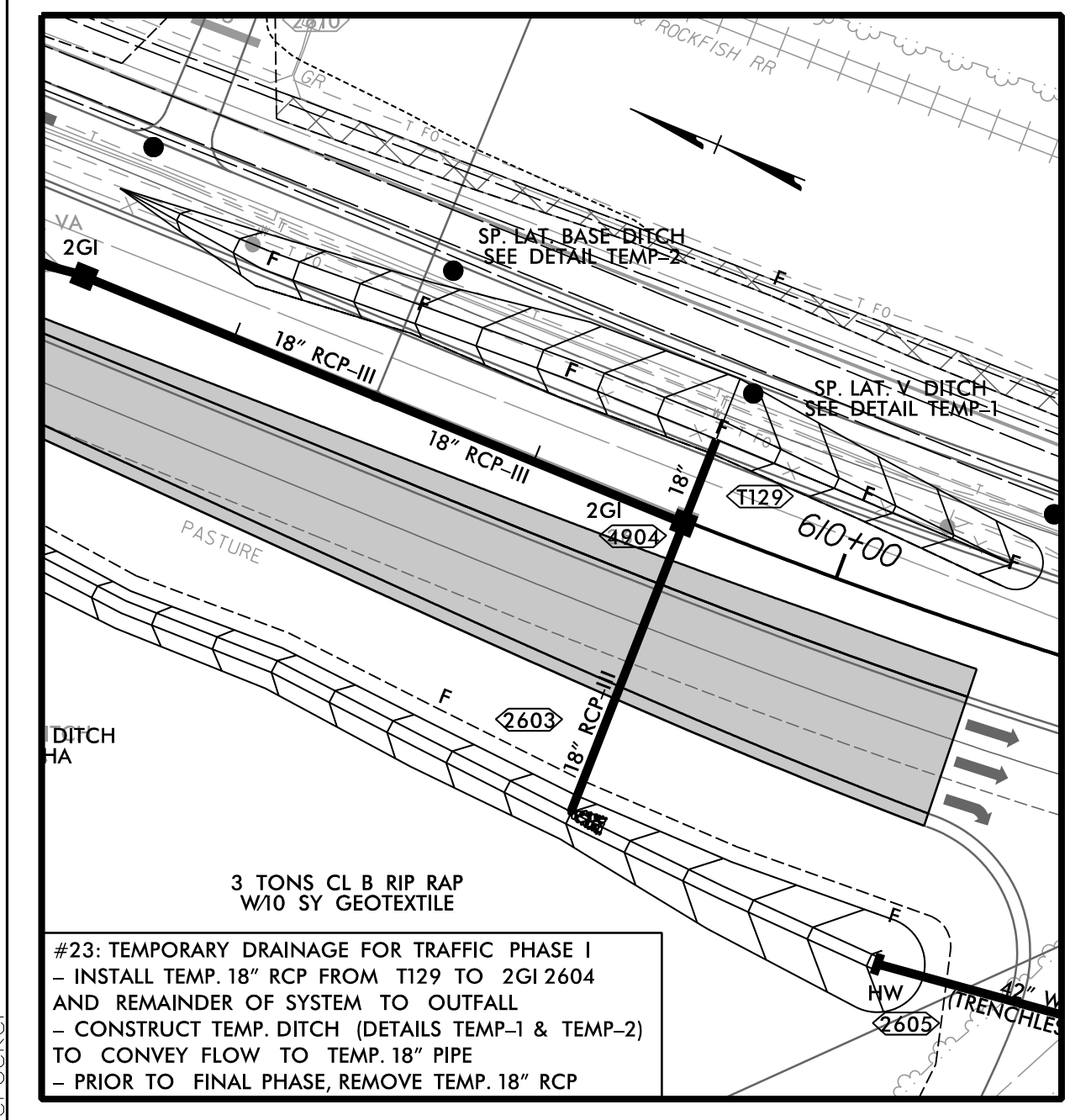
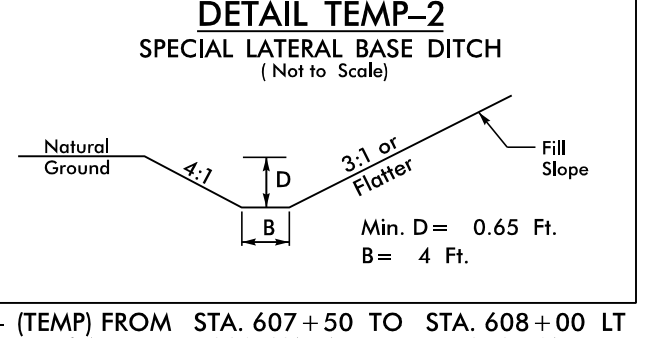
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# TEMPORARY DRAINAGE PIPE LOCATION DETAILS FOR INFORMATION USE



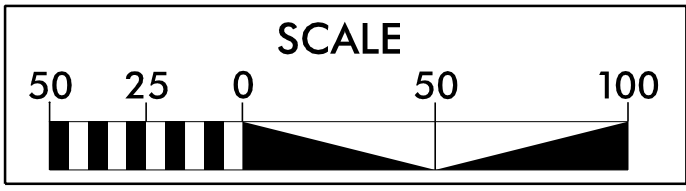
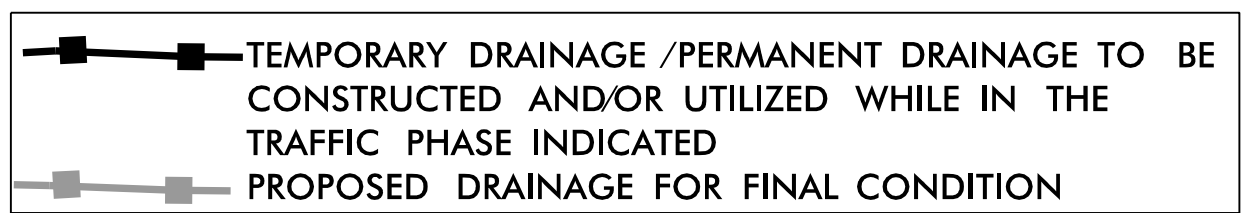
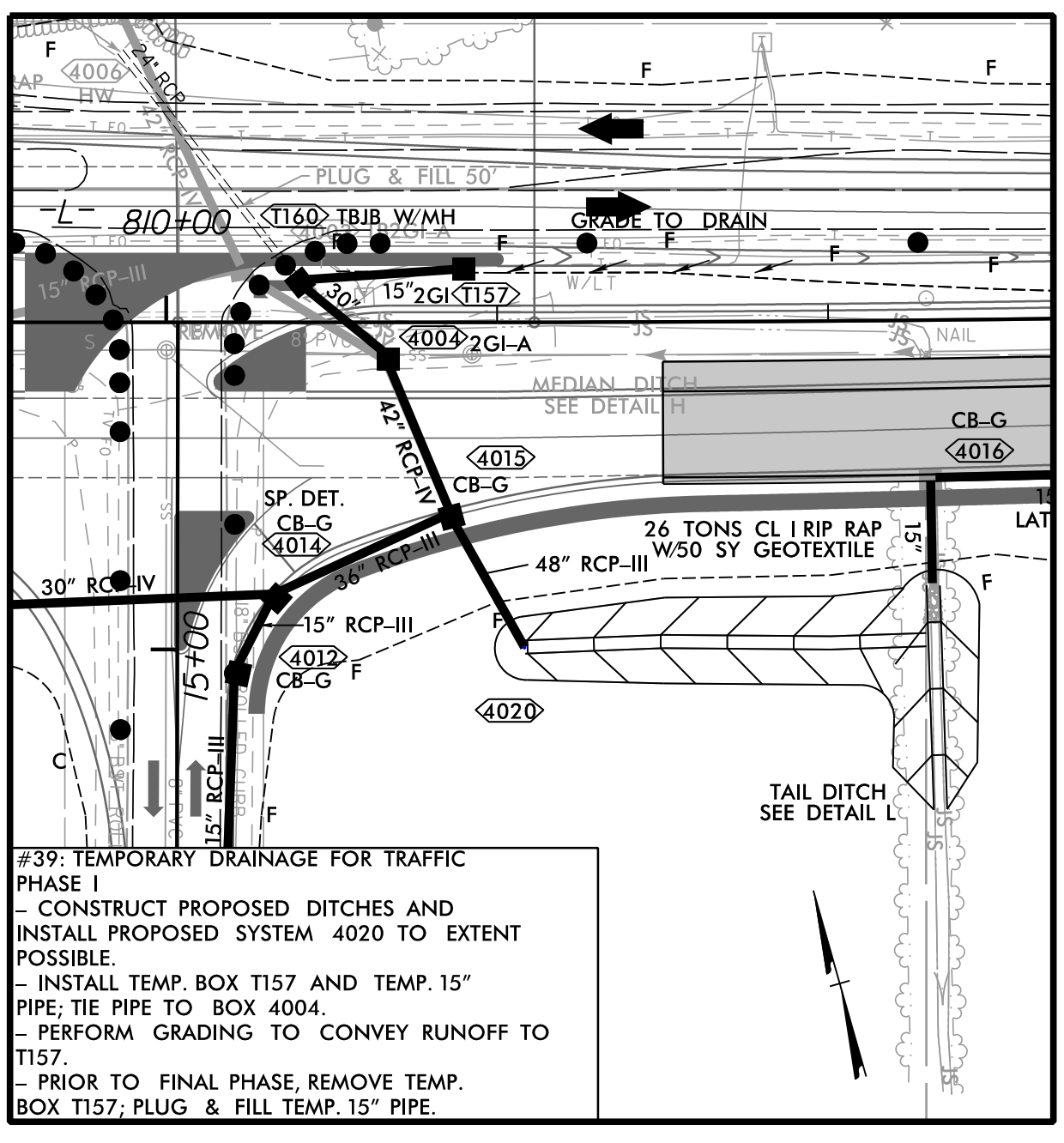
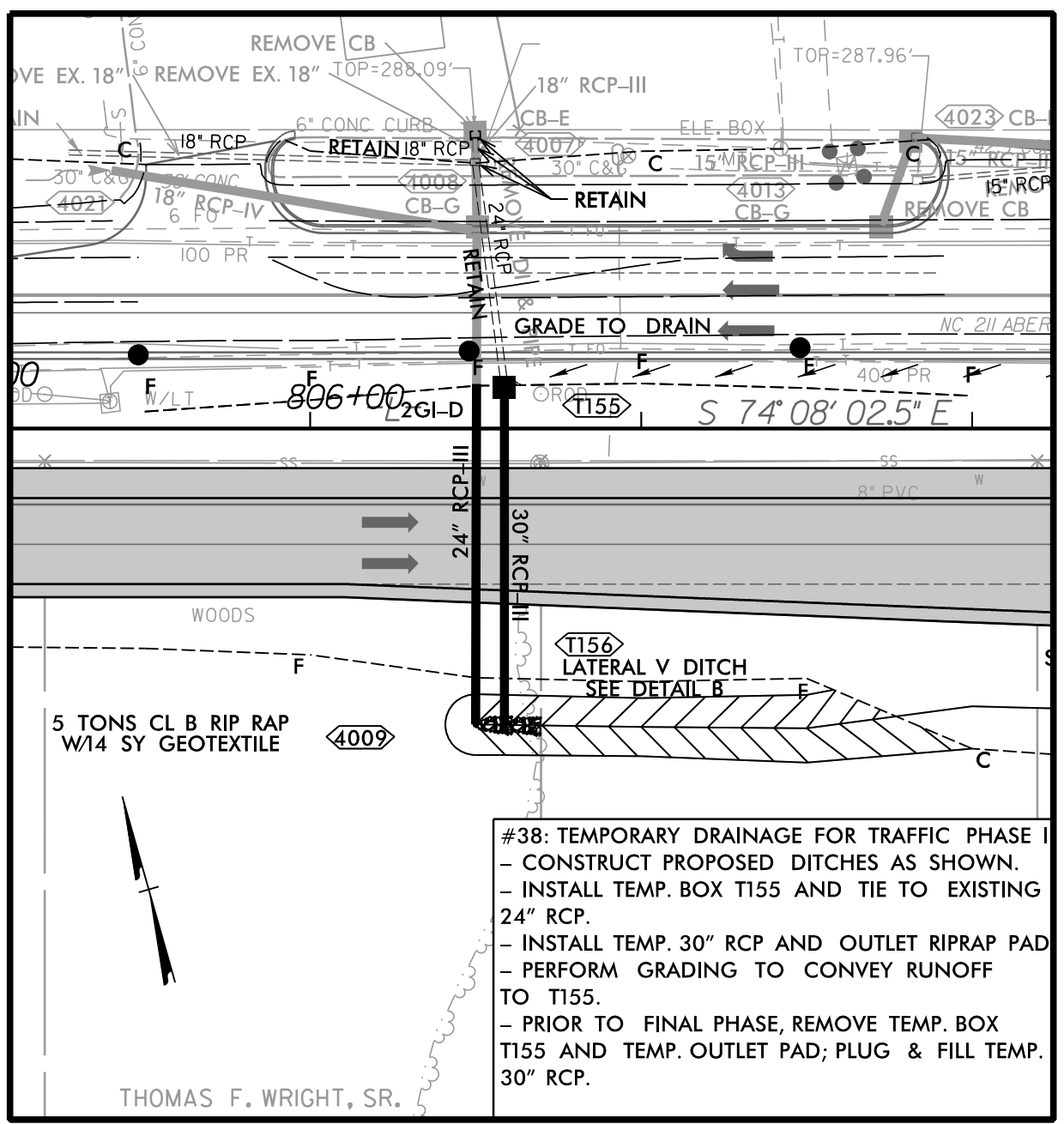
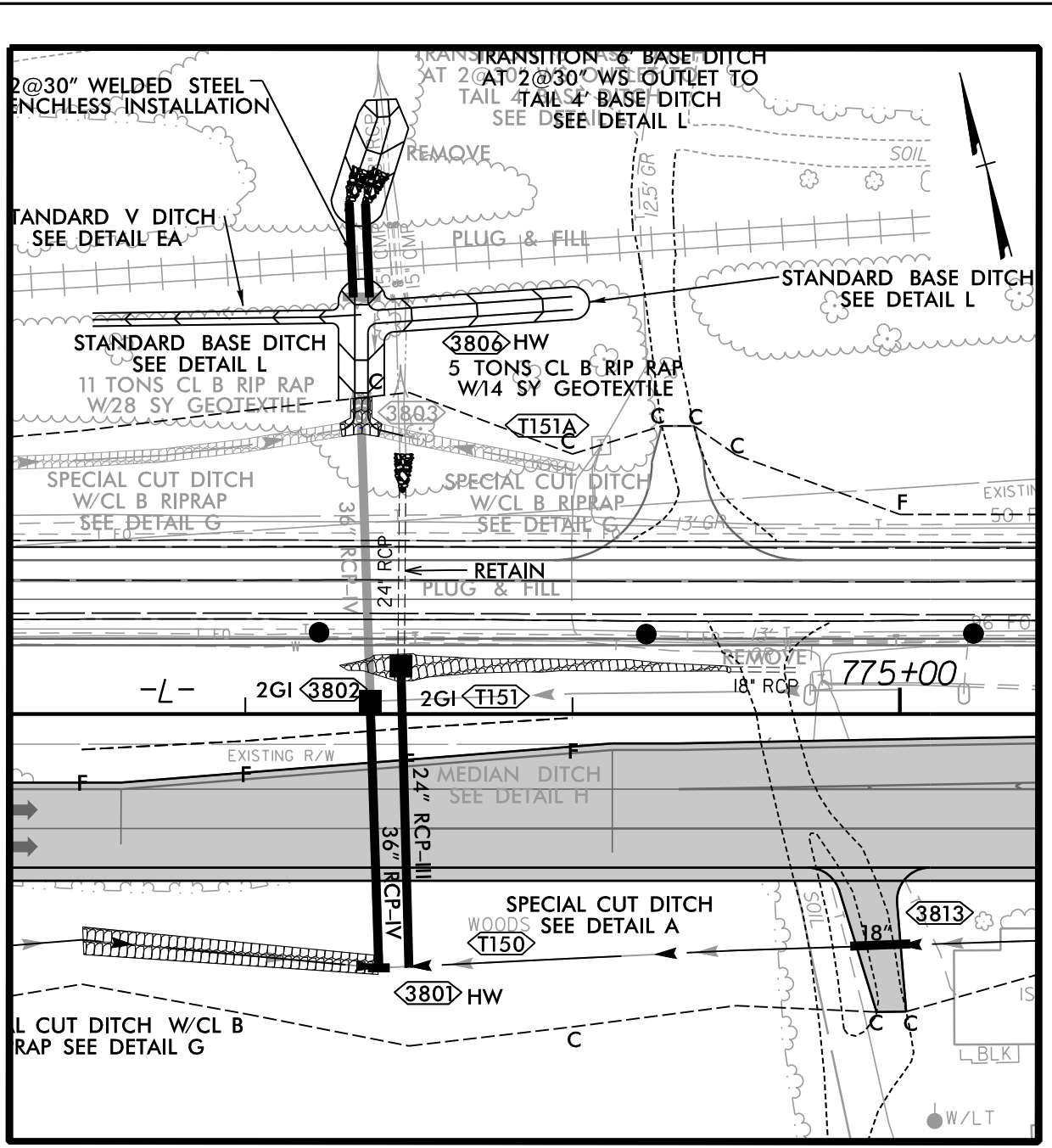
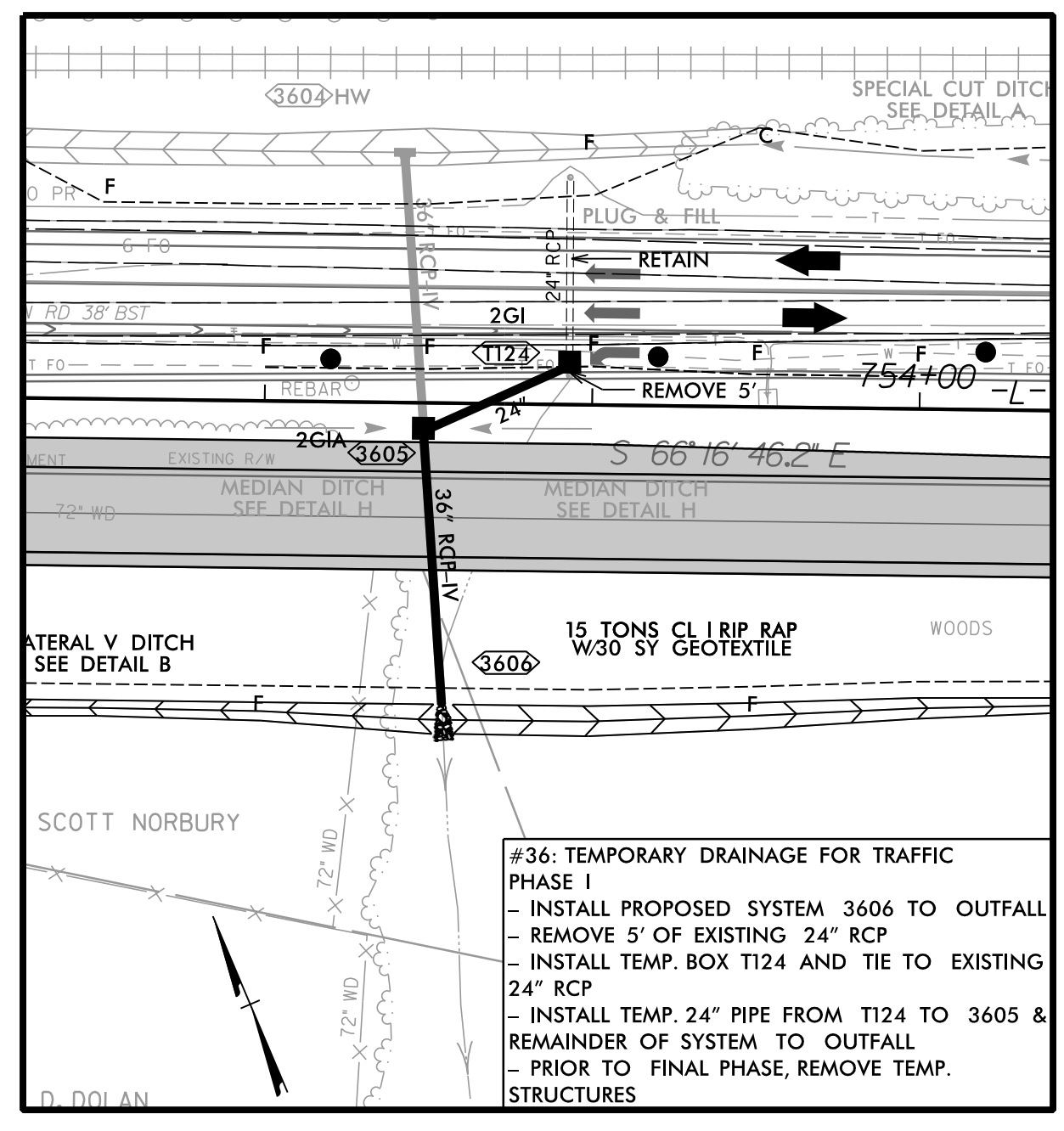
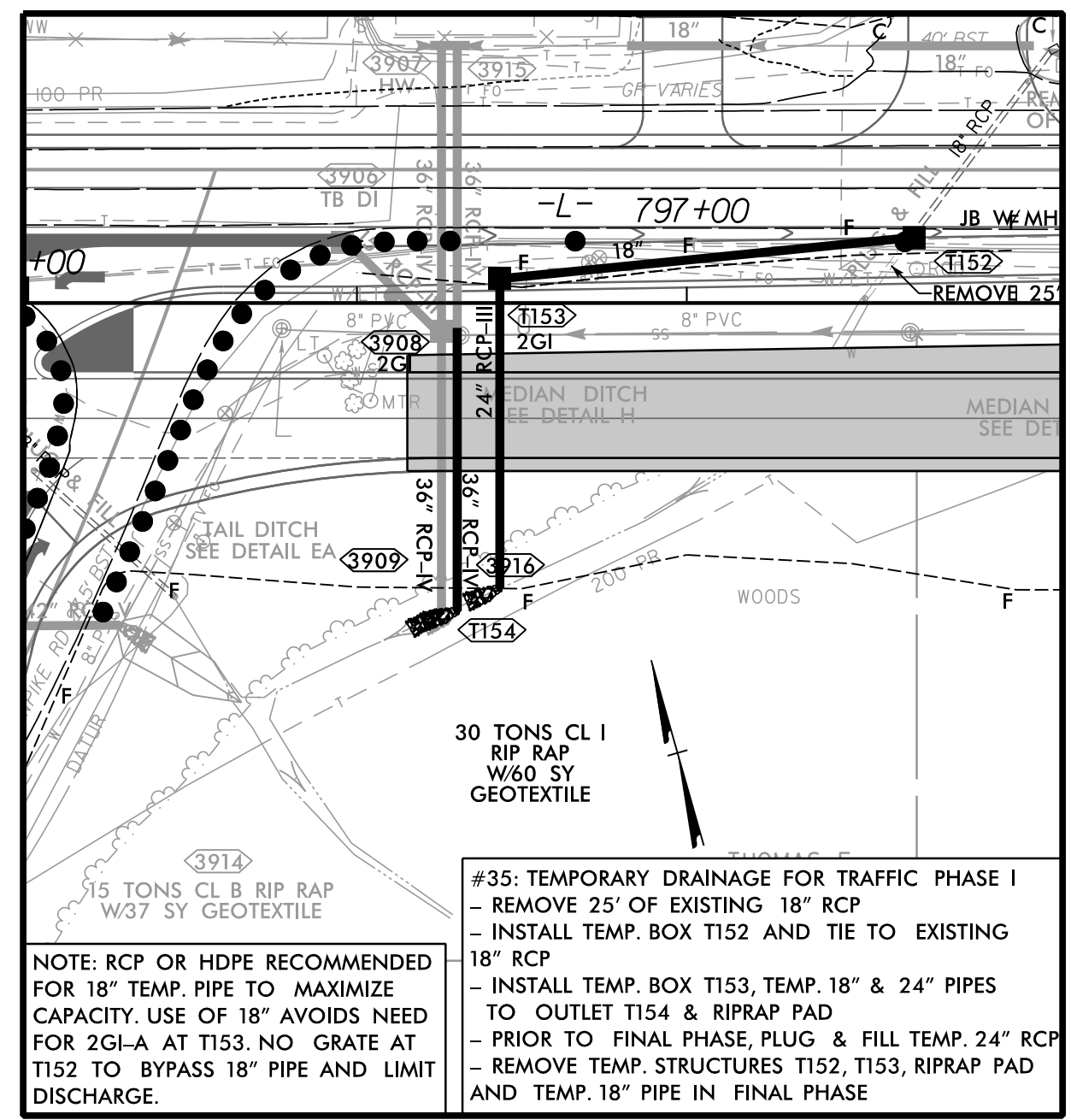
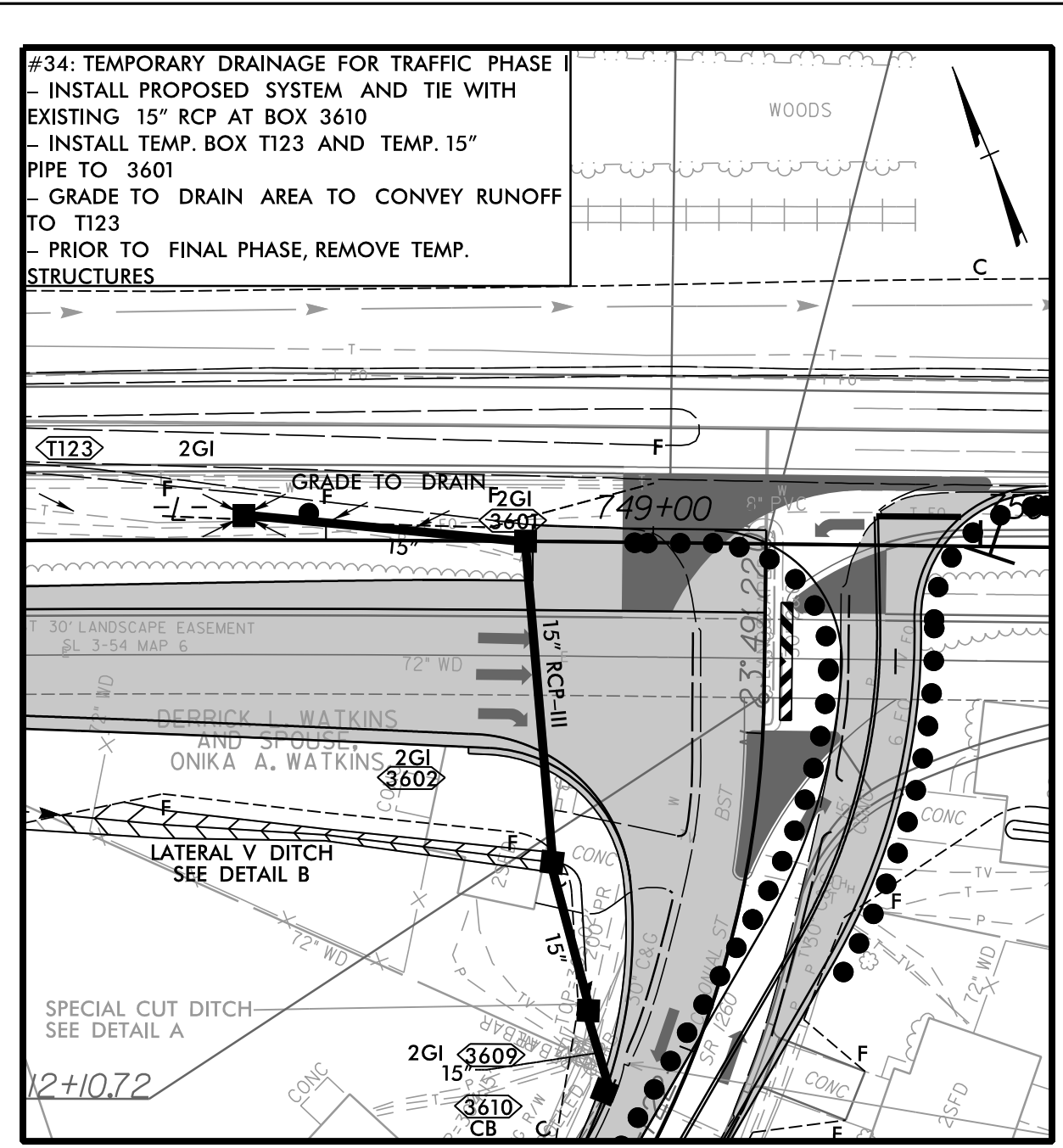
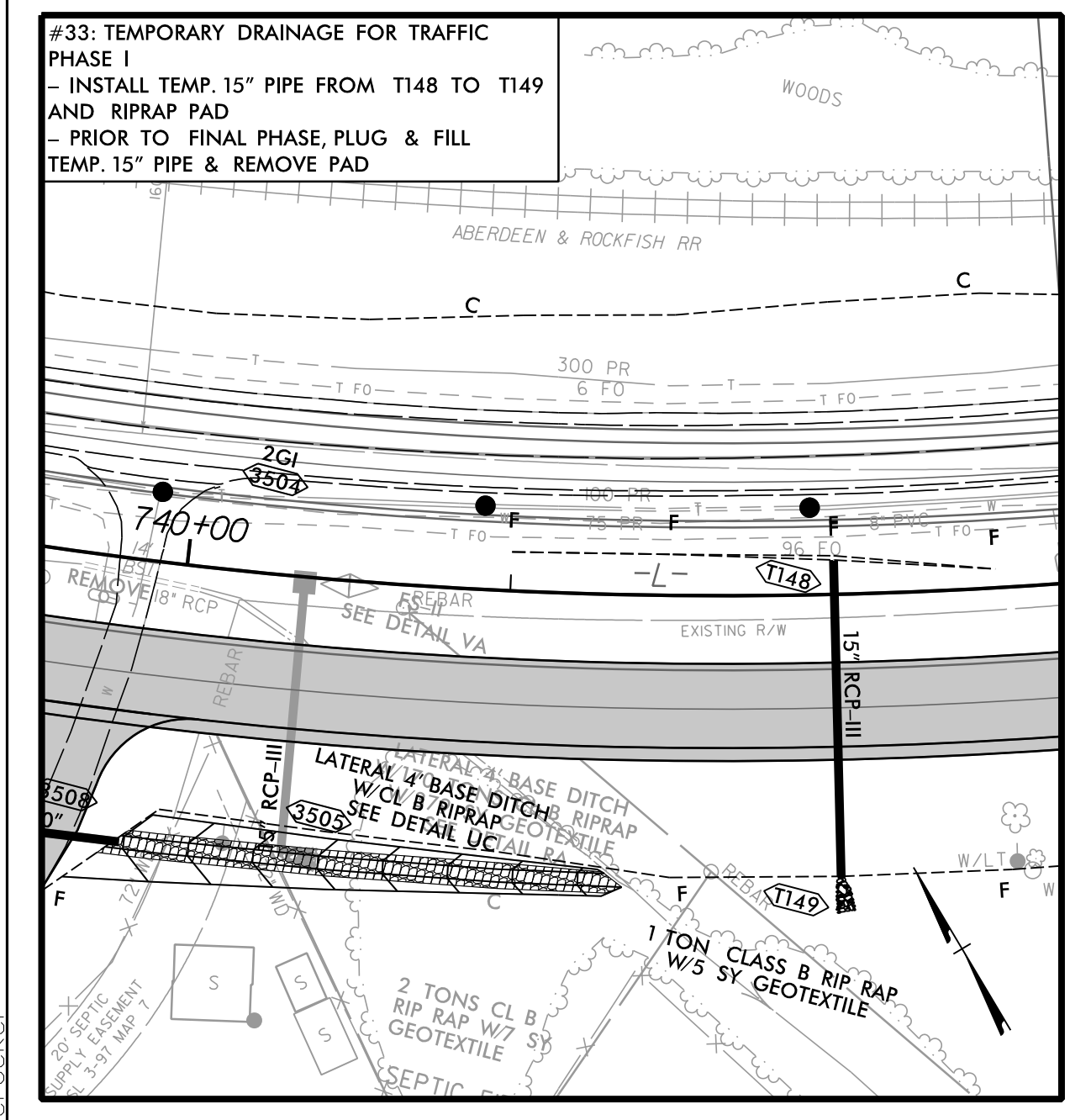
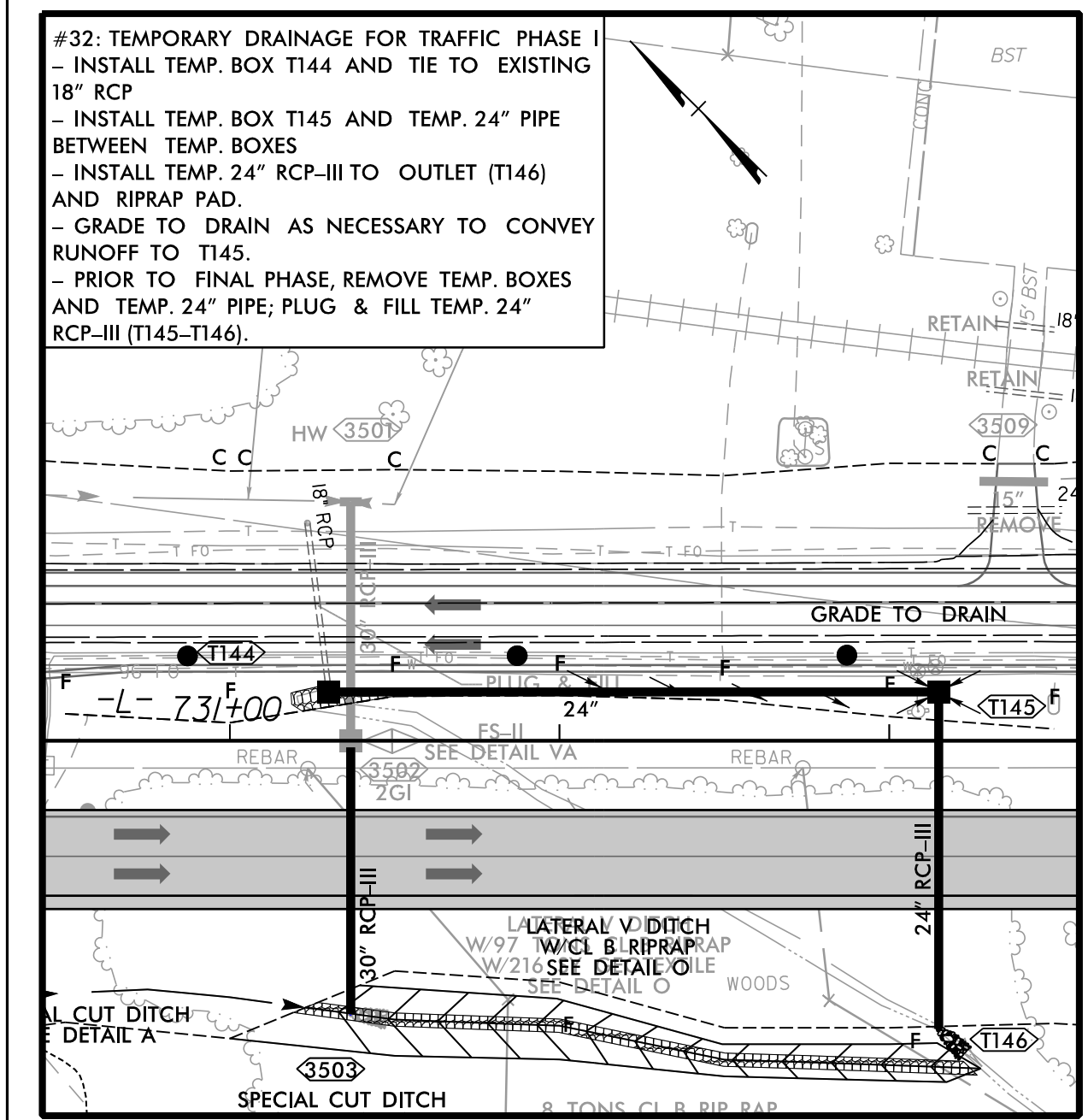
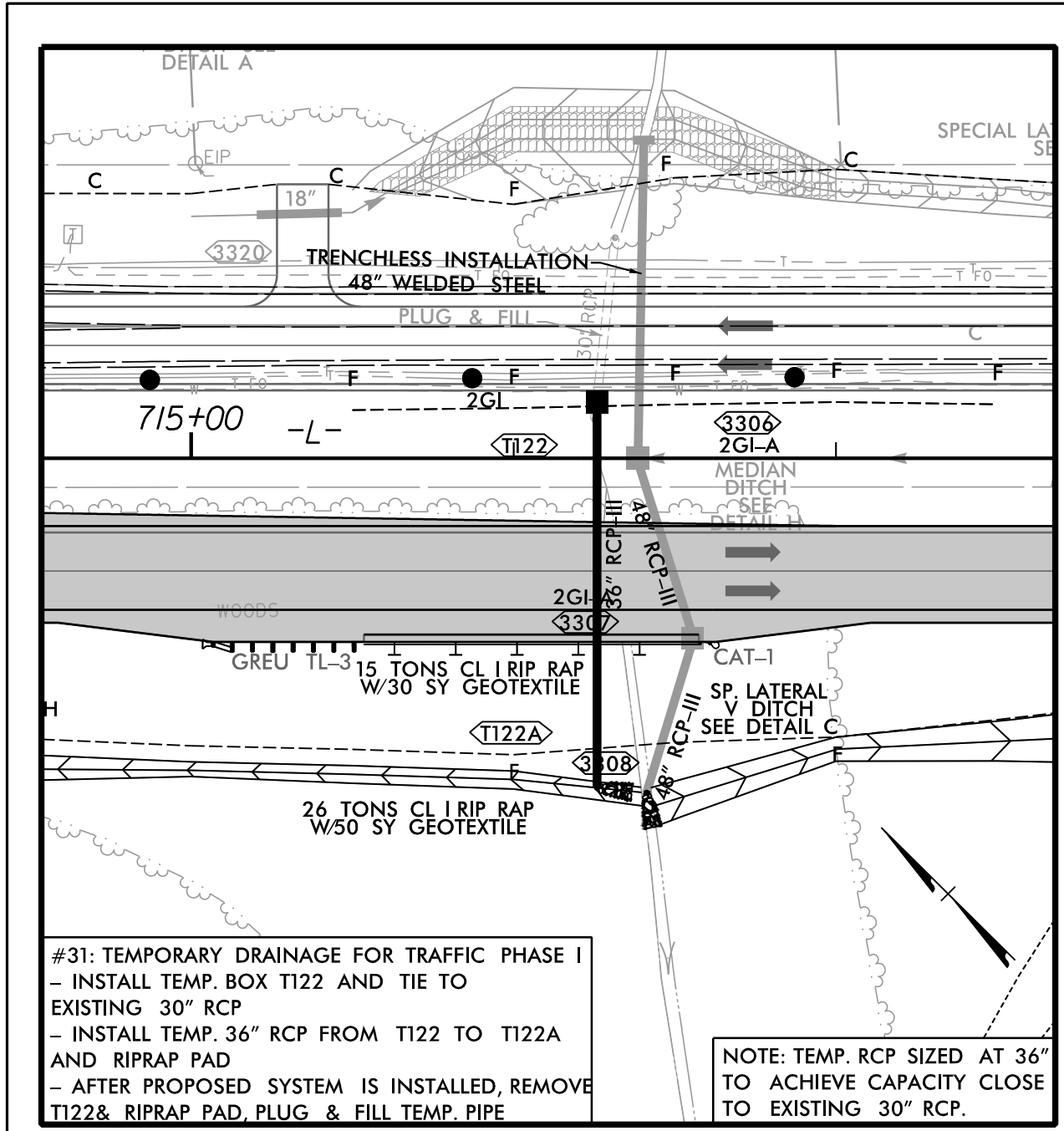
- L- (TEMP) FROM STA. 589+00 TO STA. 589+63 LT BEGIN ELEV=382.7', END ELEV=382.5'
- L- (TEMP) FROM STA. 589+63 TO STA. 590+50 LT BEGIN ELEV=382.5', END ELEV=383.2'
- L- (TEMP) FROM STA. 615+50 TO STA. 617+50 LT BEGIN ELEV=381.0', END ELEV=380.0'
- L- (TEMP) FROM STA. 617+50 TO STA. 620+00 LT BEGIN ELEV=380.0', END ELEV=378.75'
- L- (TEMP) FROM STA. 620+00 TO STA. 621+50 LT BEGIN ELEV=378.75', END ELEV=379.50'
- L- (TEMP) FROM STA. 671+50 TO STA. 671+75 LT BEGIN ELEV=362.80', END ELEV=362.50'
- L- (TEMP) FROM STA. 671+75 TO STA. 672+00 LT BEGIN ELEV=362.50', END ELEV=362.71'
- L- (TEMP) FROM STA. 609+50 TO STA. 610+50 LT BEGIN ELEV=378.75', END ELEV=379.25'



8/17/1999  
 8/28/2024  
 R:\Roadway\Pro\ARB5709C\_Rdwy\psh\2B\_21.dgn  
 ic-cocker



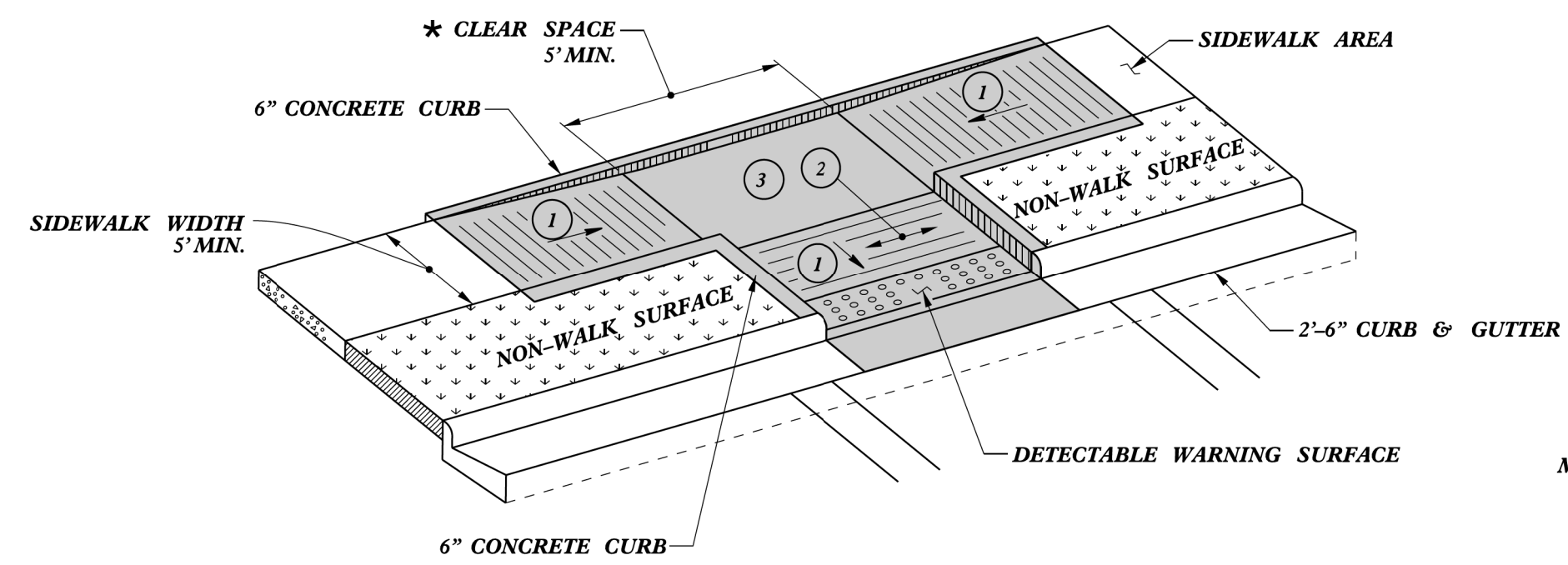
# TEMPORARY DRAINAGE PIPE LOCATION DETAILS FOR INFORMATION USE



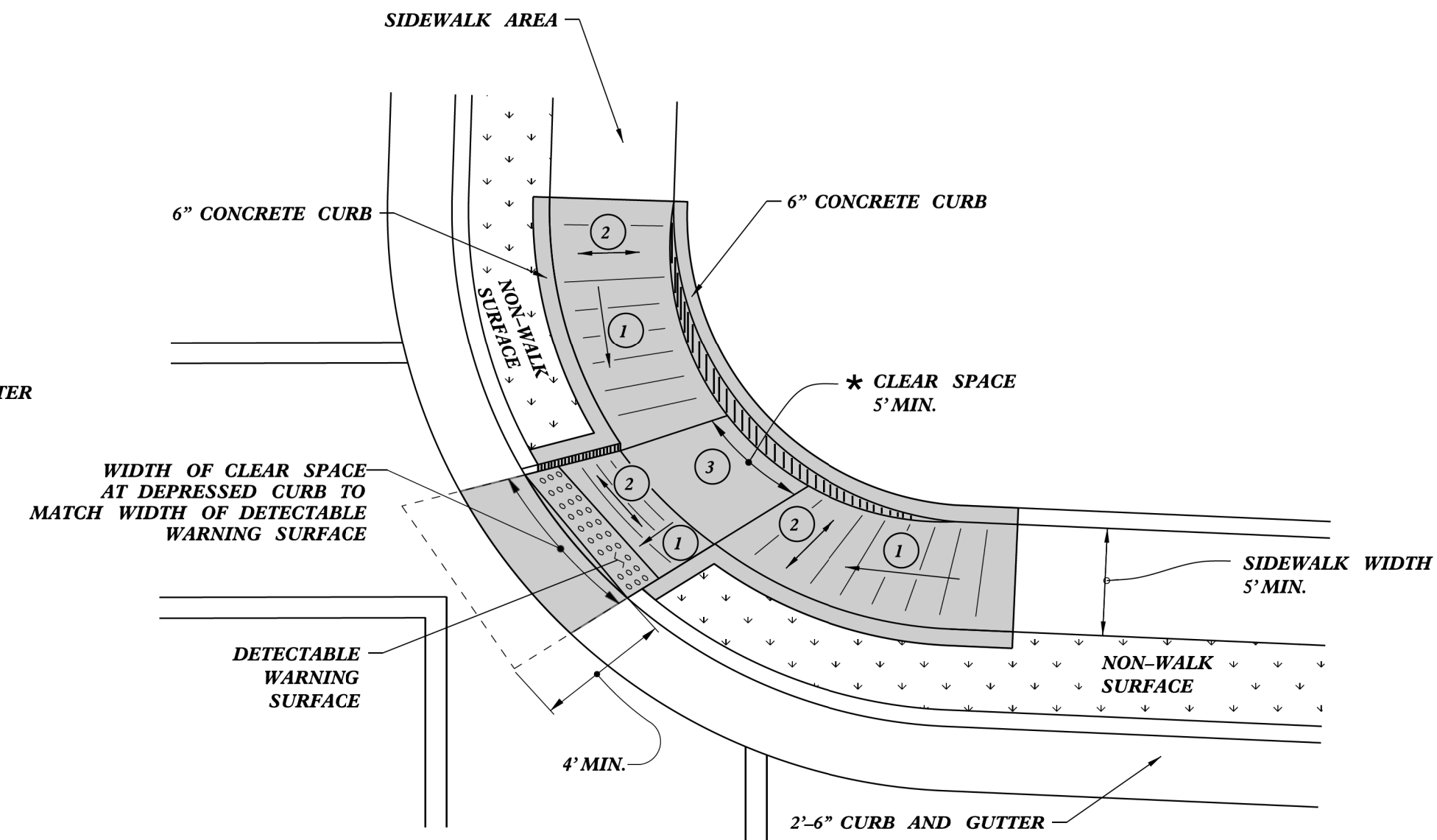
8/17/99  
8/28/2024  
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cc:ckc



\* - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

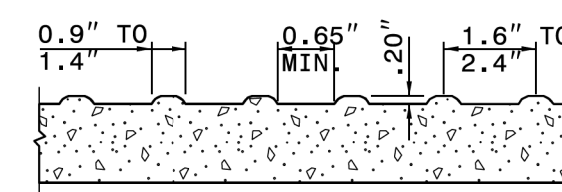
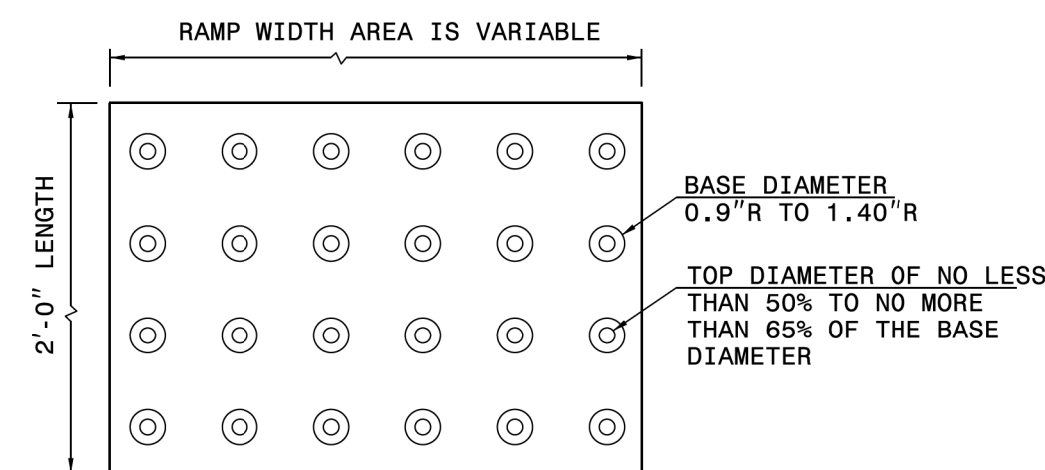


**TYPE 3**



**TYPE 3 MODIFIED  
INSTALLATION IN A RADIUS**

NOTES:  
 1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.  
 2. DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

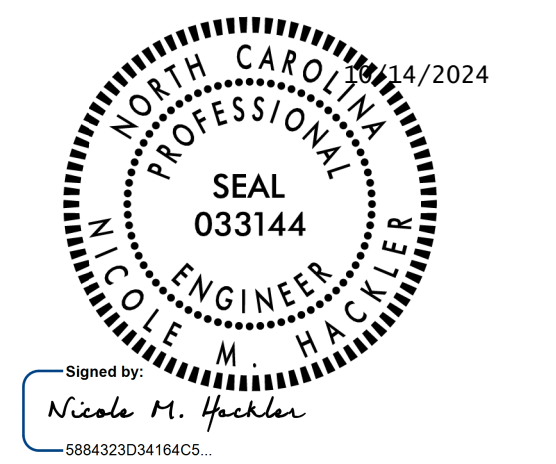


**DETECTABLE WARNING SURFACE**

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

PAY LIMITS FOR 1 CURB RAMP

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.  
 ROADWAY DETAIL DRAWING FOR  
**CURB RAMP**  
 PARALLEL RAMP  
 SHEET 9 OF 13  
**848D06**



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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

**SEE TITLE BLOCK**

ORIGINAL BY: S.CALHOUN DATE: 12-22-2023  
 MODIFIED BY: DATE:  
 CHECKED BY: DATE:  
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