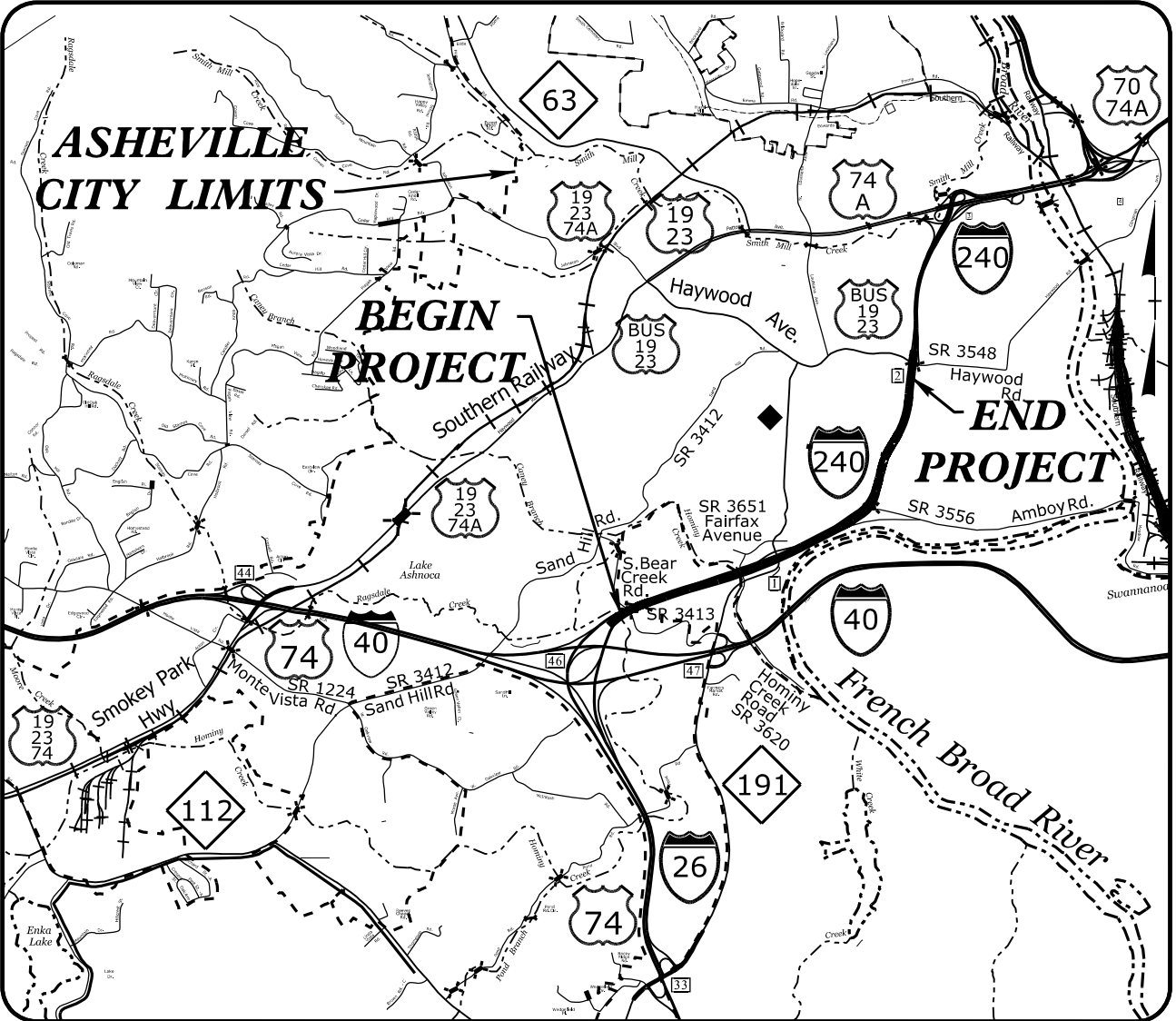


09/08/2026

TIP PROJECT: I-2513AC

CONTRACT: C205222

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols



VICINITY MAP

BEGIN TIP PROJECT I-2513AC
-L- STA.16+00.00

BEGIN CONSTRUCTION
-L- STA.13+52.95

TO CANTON

TO HENDERSONVILLE

ASHEVILLE CITY LIMITS

ASHEVILLE CITY LIMITS

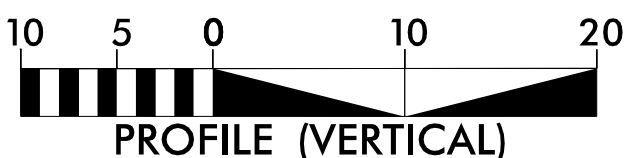
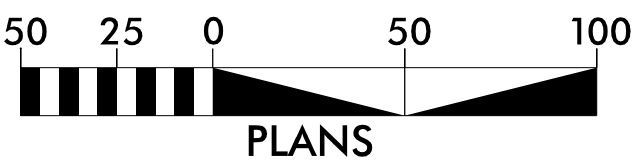
TO SWANNOGA

NAD 83 95

THE REALIGNMENT OF SR 3413 (-YI-) WILL BE A FUTURE PROJECT AND IS NOT PART OF THIS CONTRACT

THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES

GRAPHIC SCALES



DESIGN DATA

ADT 2026 = 78,700
ADT 2046 = 106,600
K = 9 %
D = 55 %
T = 10 % *
V = 60 MPH
* TTST = 5% DUAL 5%
FUNC CLASS = INTERSTATE
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I-2513AC= 1.624 MI
LENGTH STRUCTURE TIP PROJECT I-2513AC= 0.118 MI
TOTAL LENGTH TIP PROJECT I-2513AC= 1.742 MI

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

LOCATION: I-26/I-240 FROM NORTH OF I-40 TO SR-3548 (HAYWOOD RD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS, STRUCTURES,
AND RETAINING WALLS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-2513AC	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34165.1.13		P.E.	
34165.2.18		R/W	
34165.2.19		UTIL.	
34165.3.8		CONST.	

END TIP PROJECT I-2513AC
-L- STA.108+00.00

END BRIDGE LT
-L- STA.106+16.96
BEGIN BRIDGE LT
-L- STA.105+17.77

END BRIDGE LT
-L- STA.84+07.74
BEGIN BRIDGE LT
-L- STA.82+89.40

END BRIDGE RT
-L- STA.105+81.73
BEGIN BRIDGE RT
-L- STA.104+85.39

END BRIDGE RT
-L- STA.84+18.30

BEGIN BRIDGE RT
-L- STA.83+02.94

END BRIDGE
-Y2- STA.23+69.15

END BRIDGE
-Y2RPC-
STA.30+76.00

BEGIN BRIDGE
-Y2RPC-
STA.26+16.00

BEGIN BRIDGE RT
-L- STA.43+41.84

BEGIN BRIDGE LT
-L- STA.43+71.04

BEGIN BRIDGE
-Y2RPB-
STA.17+00.00

END BRIDGE LT & RT
-L- STA.47+45.00

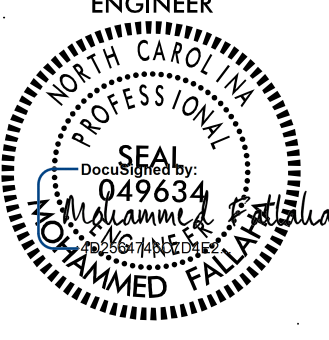
BEGIN BRIDGE
-Y2- STA.21+71.15
END BRIDGE
-Y2RPB-
STA.21+35.00

8/7/2026
I2513AC_rdy_tsh.dgn
mohammed.fallaha

8/17/99

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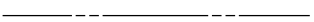
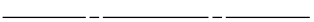
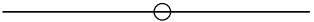
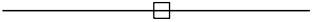
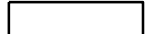
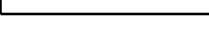
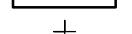
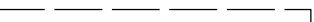
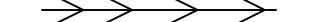
8/23/2026
1253AC.rdy-tsh.dgn
mohammed.talib@

PROJECT REFERENCE NO.			SHEET NO.
I-25/3AC			1A
			ROADWAY DESIGN ENGINEER
			 8/31/2026
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
INDEX OF SHEETS	EFF. 08-11-2025		
SHEET NUMBER	REV.		
1	2024 ROADWAY ENGLISH STANDARD DRAWINGS		
1A	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:		
1B	STD. NO. TITLE		
2A-1 THRU 2A-13	DIVISION 2 - EARTHWORK	846.01	Concrete Curb, Gutter and Curb & Gutter
2B-1 THRU 2B-22	200.03 Method of Clearing - Method III	846.02	Drop Inlet Installation in Expressway Gutter
2C-1 THRU 2C-29	225.01 Guide for Grading Subgrade - Interstate and Freeway	846.04	Drop Inlet Installation in Shoulder Berm Gutter
2D-1 THRU 2D-38	225.02 Guide for Grading Subgrade - Secondary and Local	848.01	Concrete Sidewalk (Use Detail in Lieu of Standard for Sheet 1 of 1)
2G-1 THRU 2G-7	225.03 Deceleration and Acceleration Lanes	848.02	Driveway Turnout - Radius Type
2N-1 THRU 2N-10	225.04 Method of Obtaining Superelevation - Two Lane Pavement	848.03	Driveway Turnout - Drop Curb Type
3B-1 THRU 3B-5	225.05 Method of Obtaining Superelevation - Divided Highways	848.04	Street Turnout
3D-1 THRU 3D-31	225.06 Method of Grading Sight Distance at Intersections	848.06	Curb Ramp (Use Details in Lieu of Standards for Sheets 9 and 10 of 13)
3G-1	225.07 Grading for False Cut at Grade Separations	848.07	Concrete Sidepath / Shared Use Path / Greenway Construction
3P-1	225.09 Guide for Shoulder and Ditch Transition at Grade Separations	850.01	Concrete Paved Ditches
4 THRU 12	235.01 Embankment Monitoring	850.10	Guide for Berm Drainage Outlet - 15" and 18" Pipe
13 THRU 40	240.01 Guide for Berm Ditch Construction	852.01	Concrete Islands
RW-1 THRU RW-14	275.01 Rock Plating	852.04	Method for Placement of Drop Inlets in Grassed Median - Using 1'-6" Curb and Gutter
TMP-1 THRU TMP-72	DIVISION 3 - PIPE CULVERTS	852.05	Median Curb for Catch Basin - for Use with 1'-6" Curb and Gutter
TMP-73 THRU TMP-182	300.01 Method of Pipe Installation (Use Details in Lieu of Standards for Sheets 1 and 2 of 2)	852.06	Method for Placement of Drop Inlets in Concrete Islands
PMP-1 THRU PMP-15	310.10 Driveway Pipe Construction	854.01	Double Faced Concrete Barrier - Types I, II, III and IV
E-1 THRU E-23	DIVISION 4 - MAJOR STRUCTURES	854.02	Double Faced Concrete Barrier - Types T, T1 and T2
EC-1 THRU EC-36	423.01 Bridge Approach Fills - Type 1 Approach Fill for Bridge Abutment	854.06	Median Hazard Protection
SIGN-1 THRU SIGN-23	423.02 Bridge Approach Fills - Type 1A Alternate Approach Fill for Integral Bridge Abutment	854.07	Single Slope Concrete Barrier
SIG-1 THRU SIG-14.0	423.03 Bridge Approach Fills - Type 2 Approach Fill for Bridge Abutment with MSE Wall	857.01	Precast Reinforced Concrete Barrier - 41" Single Faced
SIG-M1A THRU SIG-M9	423.04 Bridge Approach Fills - Type 2A Alternate Approach Fill for Integral Bridge Abutment with MSE Wall	862.01	Guardrail Placement (Use Details in Lieu of Standards for Sheets 4, 6, 11, 12, and 14 of 15)
SCP-1 THRU SCP-24	DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	862.02	Guardrail Installation (Use Detail in Lieu of Standard for Sheet 5 of 9)
ITS-1 THRU ITS-30	560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I	862.03	Structure Anchor Units (Use Detail in Lieu of Standards for Sheet 6 and 8 of 9)
UC-1 THRU UC-24	560.02 Method of Shoulder Construction - High Side of Superelevated Curve - Method II	862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units
UD-1 THRU UD-13	DIVISION 6 - ASPHALT BASES AND PAVEMENTS	866.01	Chain Link Fence - 4', 5' and 6' High Fence
X-0	610.01 Guide for Paving Shoulders Under Bridges - Method I (Use Details in Lieu of Standards for Sheet 1 of 1)	866.02	Woven Wire Fence - with Wood Post
X-1A THRU X-15	610.02 Guide for Paving Shoulders Under Bridges - Method II	866.06	Chain Link Fence on Retaining Wall
X-1 THRU X-363	610.03 Guide for Paving Shoulders Under Bridges - Method III	867.02	Steel Bollards
S-1	610.04 Guide for Paving Shoulders Under Bridges - Method IV (Use Details in Lieu of Standards for Sheet 1 of 1)	876.01	Rip Rap in Channels
S-2	654.01 Pavement Repairs	876.02	Guide for Rip Rap at Pipe Outlets
S2-01 THRU S2-44	665.01 Asphalt Shoulders - Milled Rumble Strips	876.04	Drainage Ditches with Class 'B' Rip Rap
S3-01 THRU S3-57	665.02 Limits for Asphalt Shoulders - Milled Rumble Strips		
S4-01 THRU S4-56	DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS		
S5-01 THRU S5-45	700.01 Concrete Pavement Joints - Construction and Contraction Joints		
S6-01 THRU S6-60	700.02 Expansion Joint Layout - for Rigid Doweled Pavement at Bridges		
S7-01 THRU S7-41	700.03 Dowel Assembly		
S8-01 THRU S8-39	700.04 Concrete Pavement Header Board		
S9-01 THRU S9-46	700.05 Tying Proposed Pavement to Existing Pavement		
S10-01 THRU S10-52	710.01 Concrete Pavement - Station Marking		
SN	DIVISION 8 - INCIDENTALS		
SBW-1 THRU SBW-6	815.02 Subsurface Drain		
W-1 THRU W-83	816.01 Concrete Pads - for Shoulder Drain Installation		
	816.02 Aggregate Shoulder Drain		
	816.04 Markers for Drainage Structure and Concrete Pad (Use Detail in Lieu of Standard for Sheet 1 of 2)		
	838.01 Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew		
	838.11 Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew		
	838.33 Reinforced Concrete Endwall - for Single 66" Pipe 90 Skew		
	838.39 Reinforced Concrete Endwall - for Single 72" Pipe 90 Skew		
	838.63 Reinforced Brick Endwall - for Single 66" Pipe 90 Skew		
	838.69 Reinforced Brick Endwall - for Single 72" Pipe 90 Skew		
	838.75 Notes for Reinforced Brick Endwall - Std. Dwg 838.51 thru 838.70		
	840.00 Concrete Base Pad for Drainage Structures		
	840.01 Brick Catch Basin - 12" thru 54" Pipe		
	840.02 Concrete Catch Basin - 12" thru 54" Pipe		
	840.03 Frame, Grates and Hood - for Use on Standard Catch Basin		
	840.04 Concrete Open Throat Catch Basin - 12" thru 48" Pipe		
	840.05 Brick Open Throat Catch Basin - 12" thru 48" Pipe		
	840.14 Concrete Drop Inlet - 12" thru 30" Pipe		
	840.15 Brick Drop Inlet - 12" thru 30" Pipe		
	840.16 Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15		
	840.17 Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe		
	840.18 Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe		
	840.19 Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe		
	840.20 Frames and Wide Slot Flat Grates		
	840.22 Frames and Wide Slot Sag Grates		
	840.24 Frames and Narrow Slot Sag Grates		
	840.25 Anchorage for Frames - Brick or Concrete or Precast		
	840.26 Brick Grated Drop Inlet Type 'A' - 12" thru 72" Pipe		
	840.27 Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe		
	840.28 Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe		
	840.29 Frames and Narrow Slot Flat Grates		
	840.31 Concrete Junction Box - 12" thru 66" Pipe		
	840.32 Brick Junction Box - 12" thru 66" Pipe		
	840.34 Traffic Bearing Junction Box - for Use with Pipes 42" and Under		
	840.35 Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates		
	840.36 Traffic Bearing Grated Drop Inlet - for Steel (840.37) Double Frame and Grates		
	840.37 Steel Gate and Frame		
	840.45 Precast Drainage Structure		
	840.46 Traffic Bearing Precast Drainage Structure		
	840.54 Manhole Frame and Cover		
	840.55 Manhole Frame and Cover (Flush with Slab for Open Throat Catch Basin)		
	840.66 Drainage Structure Steps		
	840.72 Pipe Collar		
		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.
		CLEARING:	CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
		SUPERELEVATION:	ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 AND STD. NO. 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 STD. NO. 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.
		SHOULDER DRAINS:	SHOULDER DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 816.02 AND DETAILS IN PLANS 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. DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON 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".
		END BENTS:	THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.
		UTILITIES:	UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY, CHARTER SPECTRUM, ERC BROADBAND, AT&T, AT&T LONG DISTANCE, ENBRIDGE/DOMINION ENERGY, CITY OF ASHEVILLE, & METROPOLITAN SEWER DISTRICT (MSD)
		RIGHT-OF-WAY MARKERS:	ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.
		CURB RAMPS:	CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS IN ACCORDANCE WITH STD 848.06.

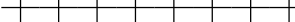
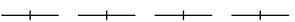
CONVENTIONAL PLAN SHEET SYMBOLS

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	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	
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	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

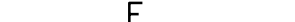
RAILROADS:

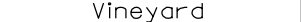
Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

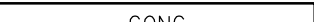
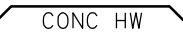
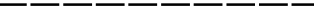
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent 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	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage/Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
VEGETATION:	
Single Tree	
Single Shrub	
Hedge	

Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

* 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	

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	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground 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:

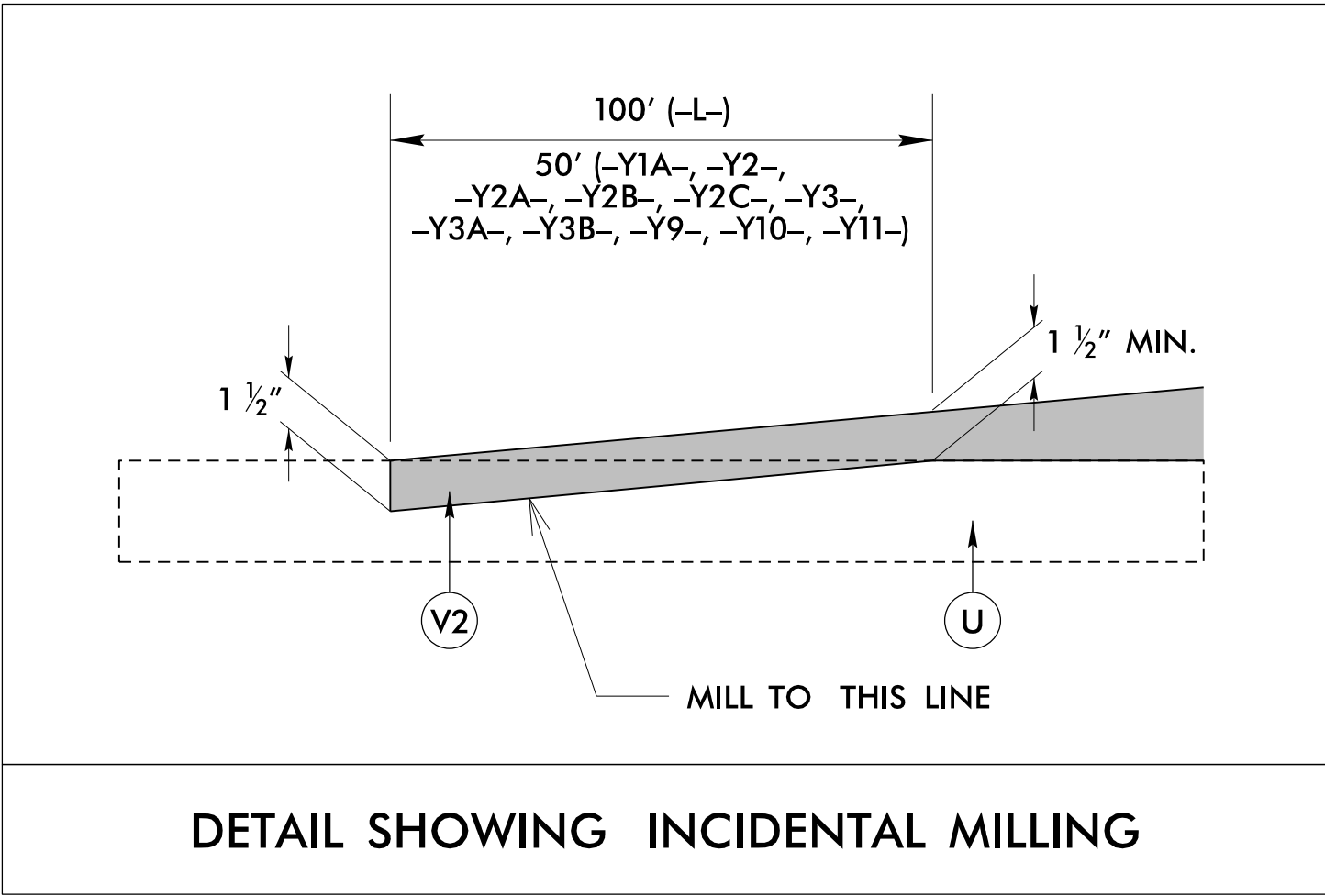
Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line (SUE – LOS B)*	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
Abandoned According to Utility Records	
End of Information	

6/2/2026

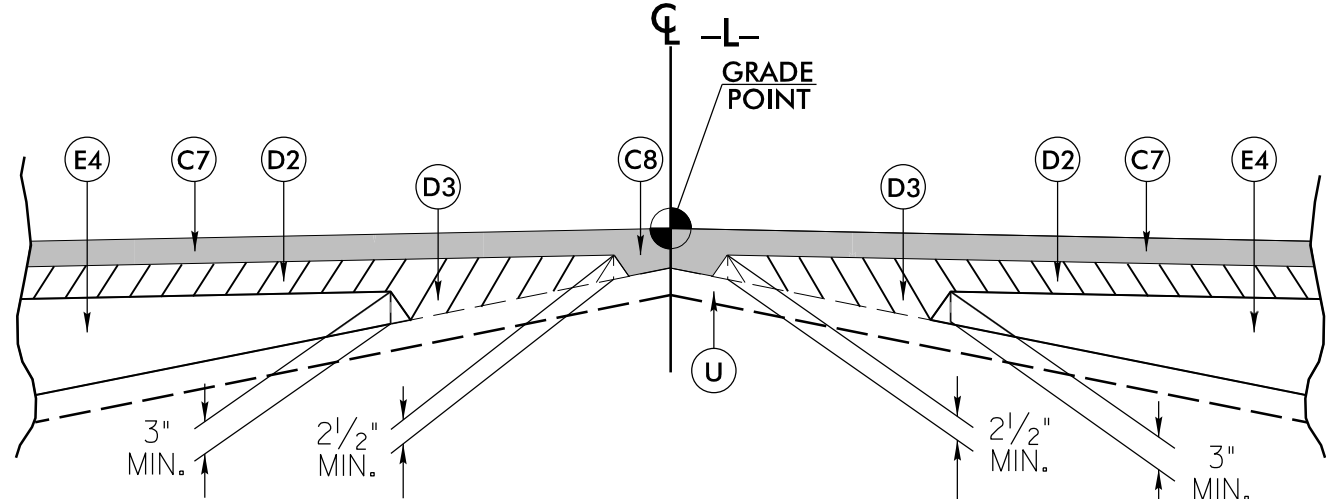
6/2/2026
Muhammad Falahe

PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN			
A1	11" PORTLAND CEMENT CONCRETE PAVEMENT W/ DOWELS. AND NEXT GENERATION DIAMOND GRINDING	R1	1'-6" CONCRETE CURB AND GUTTER.
A2	12" CONCRETE TRUCK APRON	R2	2'-6" CONCRETE CURB AND GUTTER.
C1	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	R3	8"x18" CONCRETE CURB
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	R4	5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R5	EXPRESSWAY GUTTER
C4	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.	R6	SHOULDER BERM GUTTER
C5	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 LESS THAN 1 1/2" OR GREATER THAN 1 1/2" IN DEPTH.	R7	SINGLE FACE SINGLE SLOPE CONCRETE BARRIER
C6	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.	R8	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED
C7	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.	R9	CONCRETE BARRIER RAIL WITH MOMENT SLAB
C8	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 LESS THAN 1 1/2" OR GREATER THAN 2" IN DEPTH.	R10	SINGLE SLOPE CONCRETE BARRIER
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R11	3" CONCRETE ISLAND COVER (COVERED UNDER MEDIAN HAZARD PROTECTION)
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R12	3" ROLLED CONCRETE CURB
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 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.	S	4" CONCRETE SIDEWALK
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	T	EARTH MATERIAL.
E2	PROP. APPROX. 5 1/4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 598.5 LBS. PER SQ. YD.	U	EXISTING PAVEMENT.
E3	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. IN EACH OF 2 LAYERS.	V1	MILLED RUMBLE STRIPS.
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 1/2" IN DEPTH.	V2	INCIDENTAL MILLING
J1	PROP. 6" AGGREGATE BASE COURSE.	W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING NO. 1).
J2	PROP. 8" AGGREGATE BASE COURSE.	W2	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING NO. 2).
J3	PROP. 10" AGGREGATE BASE COURSE.	W3	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING NO. 3).
K2	PROP. 8" CLASS IV SUBGRADE STABILIZATION	NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE	
N1	NONWOVEN GEOTEXTILE INTERLAYER		
N2	GEOTEXTILE FOR SUBGRADE STABILIZATION		
P1	PRIME COAT AT THE RATE OF 0.35 GAL. PER SQ. YARD.		

SHOULDER DRAIN DETAIL #1
SEE SUMMARY TABLE ON SHEET 3B-2

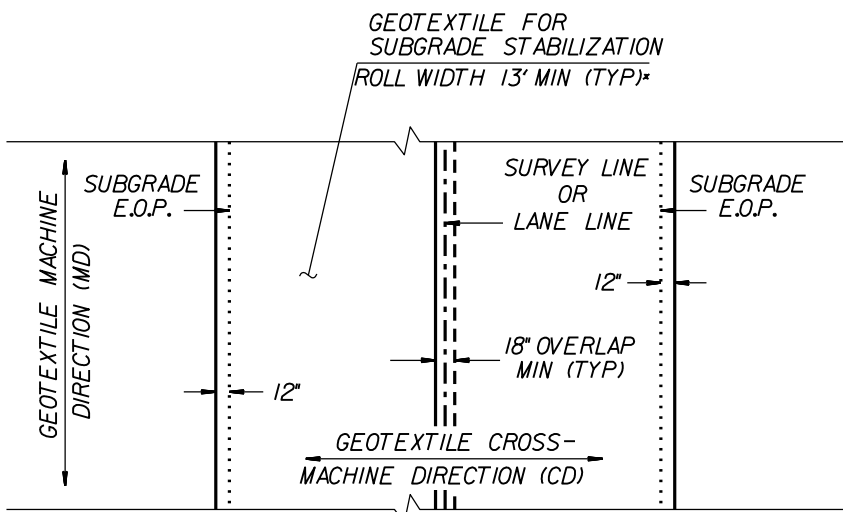


DETAIL SHOWING INCIDENTAL MILLING



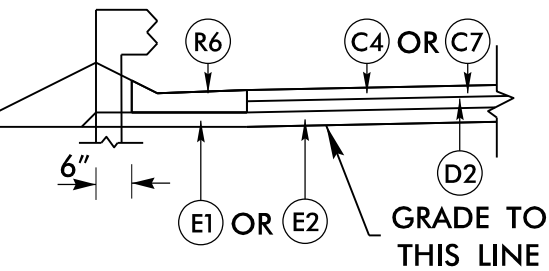
W1: Detail Showing Method of Wedging

USE THIS DETAIL IN CONJUNCTION WITH TYPICAL SECTION #1



GEOTEXTILE FOR SUBGRADE STABILIZATION PLACEMENT
(PLAN VIEW)
(100% COVERAGE REQUIRED)

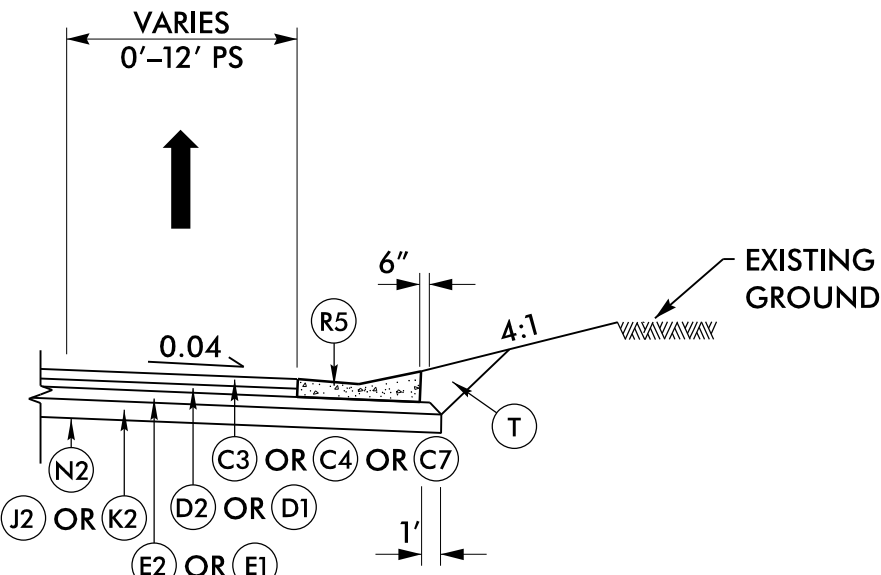
*INSTALL GEOTEXTILE FOR SUBGRADE STABILIZATION WITH MINIMUM ROLL WIDTH UNDER ROADWAY EDGES AND SHOULDERS ADJACENT TO FILL SLOPES



Detail Showing Shoulder Berm Gutter

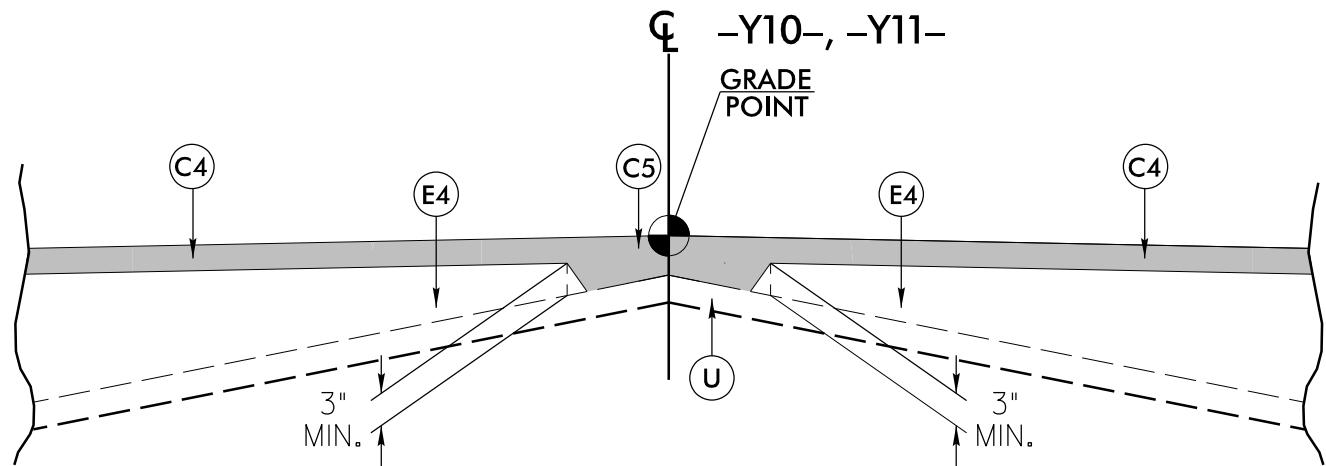
-L- STA. 13+90.51 TO STA. 15+83.17 (RT)
-L- STA. 18+24.09 TO STA. 24+10.24 (LT)
-L- STA. 16+14.06 TO STA. 26+50.00 (RT)
-L- STA. 29+92.96 TO STA. 30+65.35 (LT)
-L- STA. 39+63.21 TO STA. 43+17.39 (RT)
-L- STA. 42+99.73 TO STA. 43+41.12 (LT)
-L- STA. 47+69.13 TO STA. 49+39.73 (LT)
-L- STA. 98+25.00 TO STA. 99+91.62 (LT)
-L- STA. 98+54.64 TO STA. 99+82.38 (RT)
-Y2A- STA. 12+98.00 TO STA. 13+88.46 (LT)
-RP23- STA. 16+02.00 TO STA. 18+65.00 (RT)
-Y2RPB- STA. 15+66.00 TO STA. 15+90.00 (LT)
-Y2RPB- STA. 21+59.00 TO STA. 25+09.77 (LT)
-Y2RPC- STA. 22+71.93 TO STA. 25+92.00 (LT)
-Y2RPC- STA. 31+00.00 TO STA. 31+86.31 (LT)

PROJECT REFERENCE NO.		SHEET NO.
1-2513AC		2A-1
ROADWAY DESIGN ENGINEER Muhammad Falahe 8/10/2026	PAVEMENT DESIGN ENGINEER Muhammad Falahe 8/10/2026	
Prepared in the Office of: AECOM		NC FIRM LICENSE No: F-0342 5438 Wade Fork Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6000 / (919) 854-6259 (FX)
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



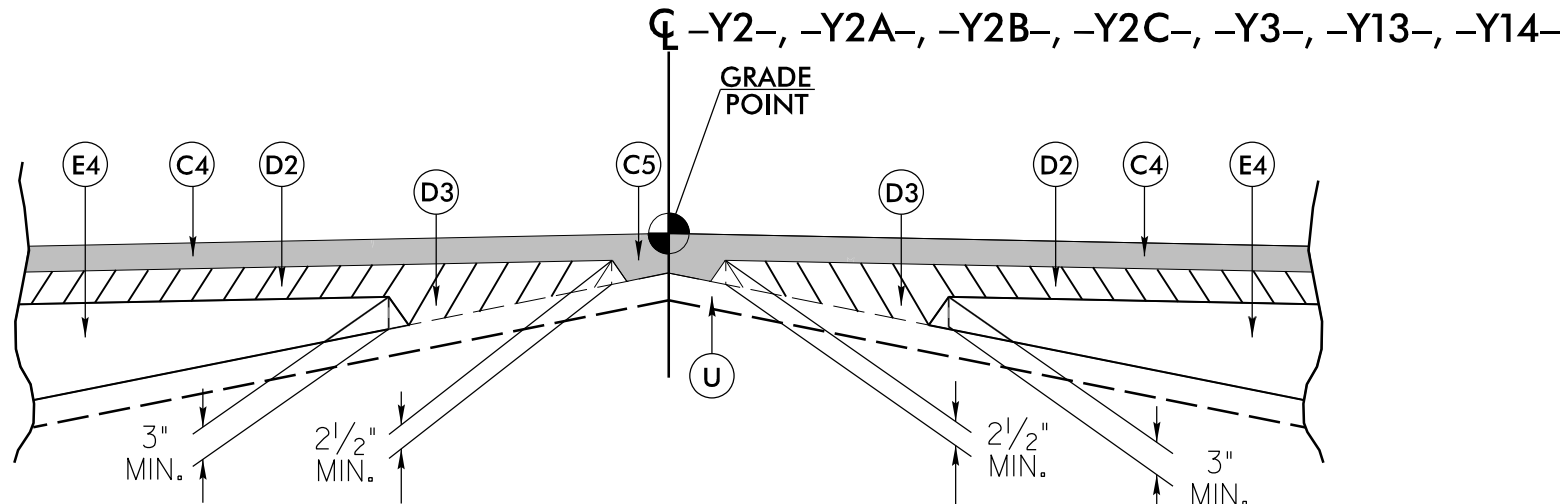
Detail Showing Expressway Gutter

USE THIS DETAIL IN CONJUNCTION WITH TYPICAL SECTION #1, #1A, #2, #5, #21, #44



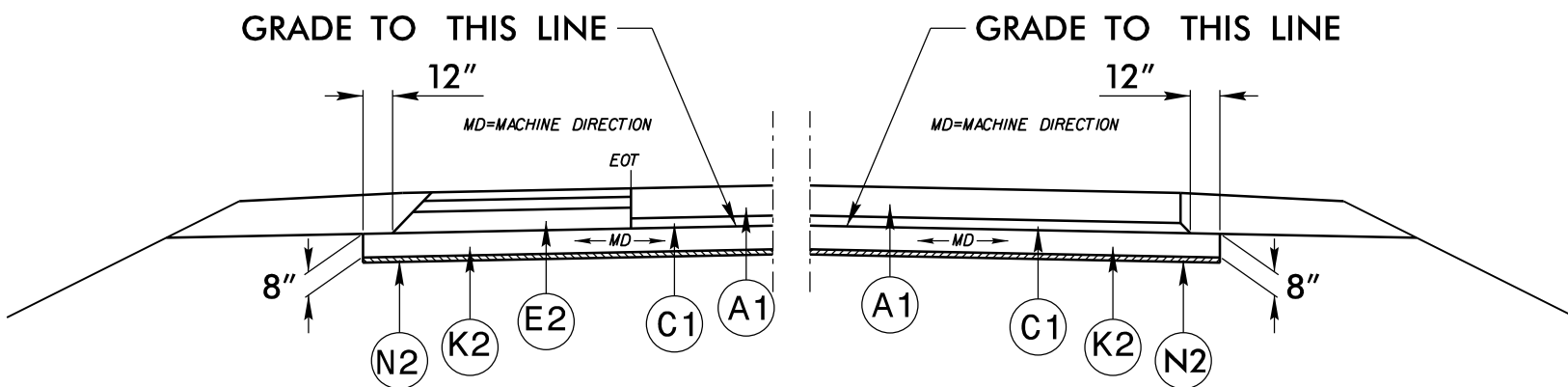
W2: Detail Showing Method of Wedging

USE THIS DETAIL IN CONJUNCTION WITH TYPICAL SECTION #24, #43, #44, #47



W3: Detail Showing Method of Wedging

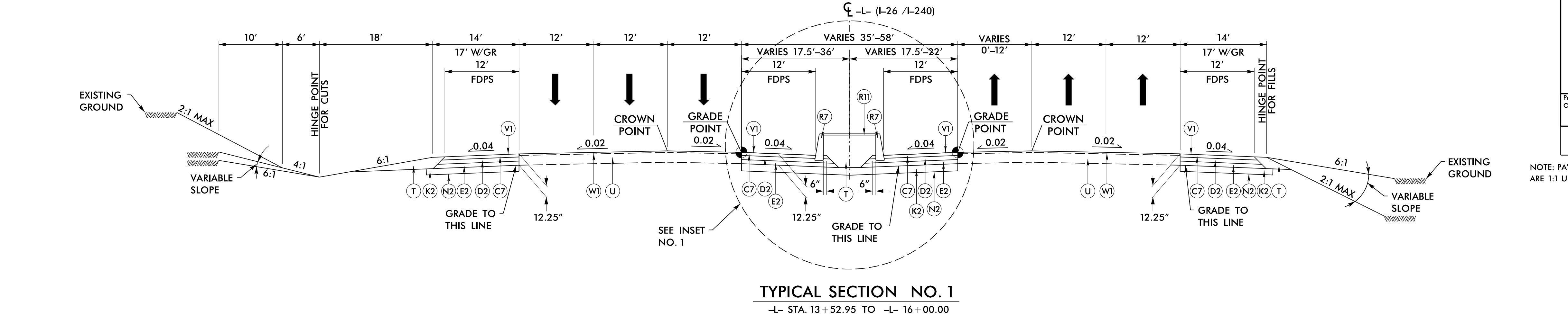
USE THIS DETAIL IN CONJUNCTION WITH TYPICAL SECTION #3, #5A, #7, #9, #10, #19, #30



Class IV Subgrade Stabilization

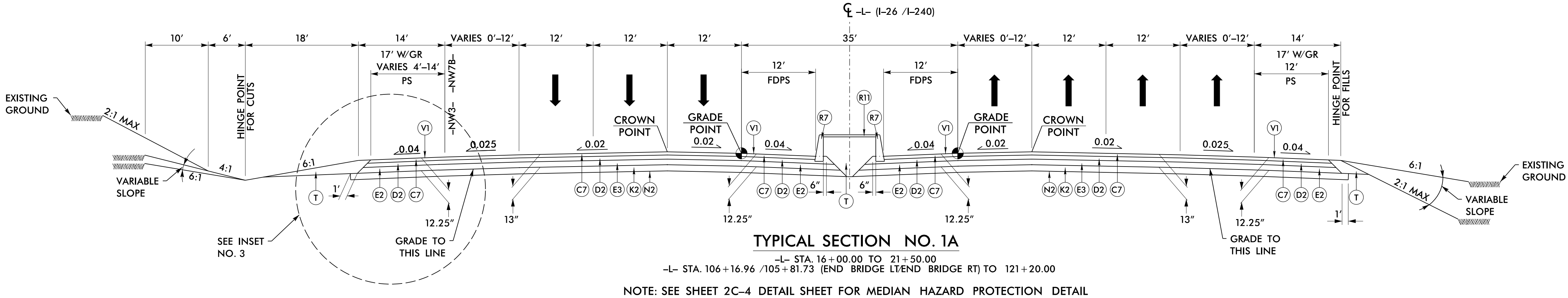
6/2/2026

6/10/2026
12:51:36 PM
Mohammed F. Al-Hallaq



TYPICAL SECTION NO. 1

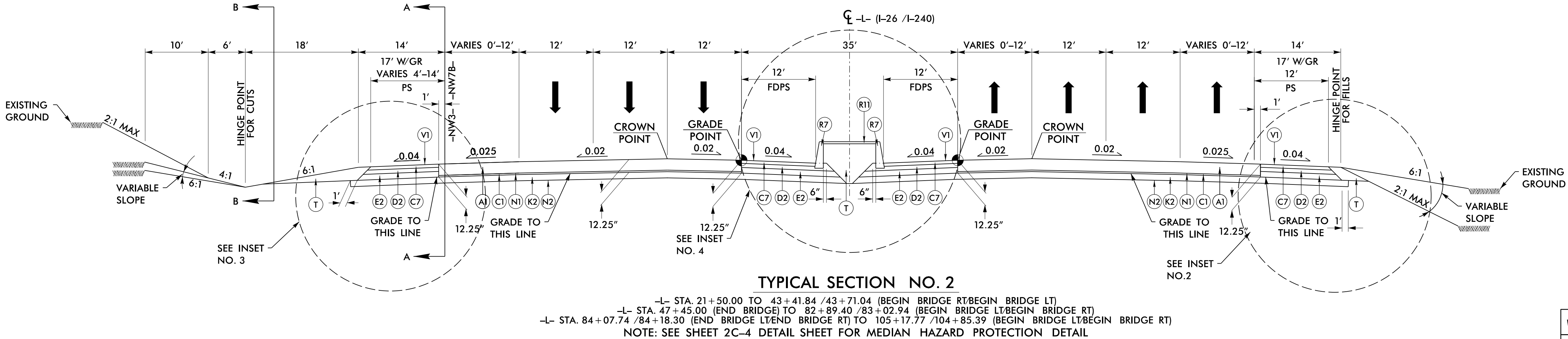
-L- STA. 13+52.95 TO -L- 16+00.00



TYPICAL SECTION NO. 1A

-L- STA. 16+00.00 TO 21+50.00
-L- STA. 106+16.96 /105+81.73 (END BRIDGE LT/END BRIDGE RT) TO 121+20.00

NOTE: SEE SHEET 2C-4 DETAIL SHEET FOR MEDIAN HAZARD PROTECTION DETAIL



TYPICAL SECTION NO. 2

-L- STA. 21+50.00 TO 43+41.84 /43+71.04 (BEGIN BRIDGE RT/BEGIN BRIDGE LT)
-L- STA. 47+45.00 (END BRIDGE) TO 82+89.40 /83+02.94 (BEGIN BRIDGE LT/BEGIN BRIDGE RT)
-L- STA. 84+07.74 /84+18.30 (END BRIDGE LT/END BRIDGE RT) TO 105+17.77 /104+85.39 (BEGIN BRIDGE LT/BEGIN BRIDGE RT)
NOTE: SEE SHEET 2C-4 DETAIL SHEET FOR MEDIAN HAZARD PROTECTION DETAIL

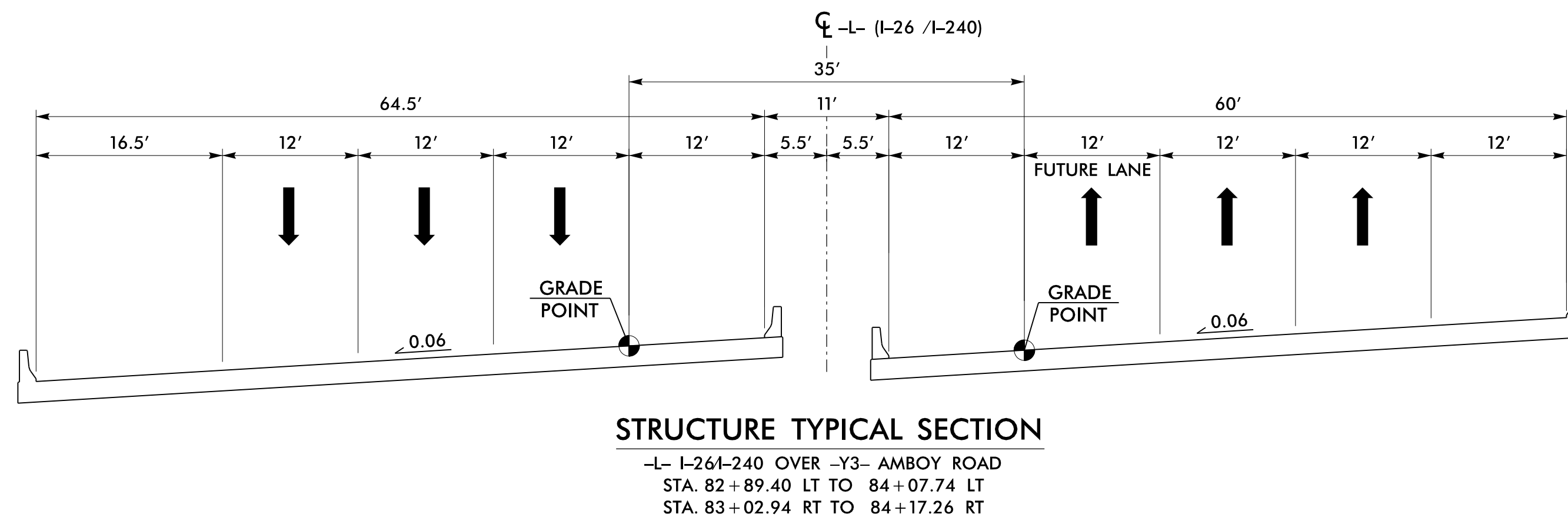
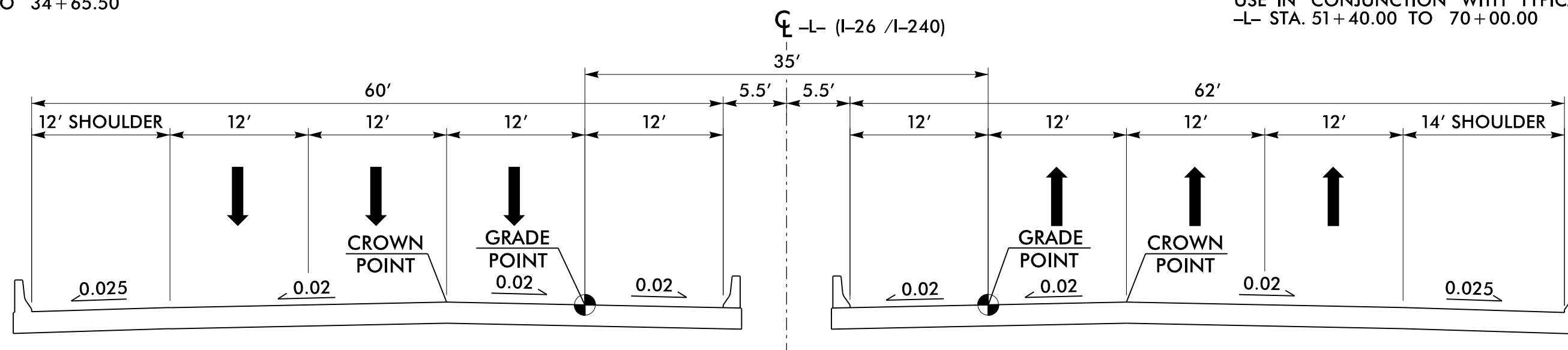
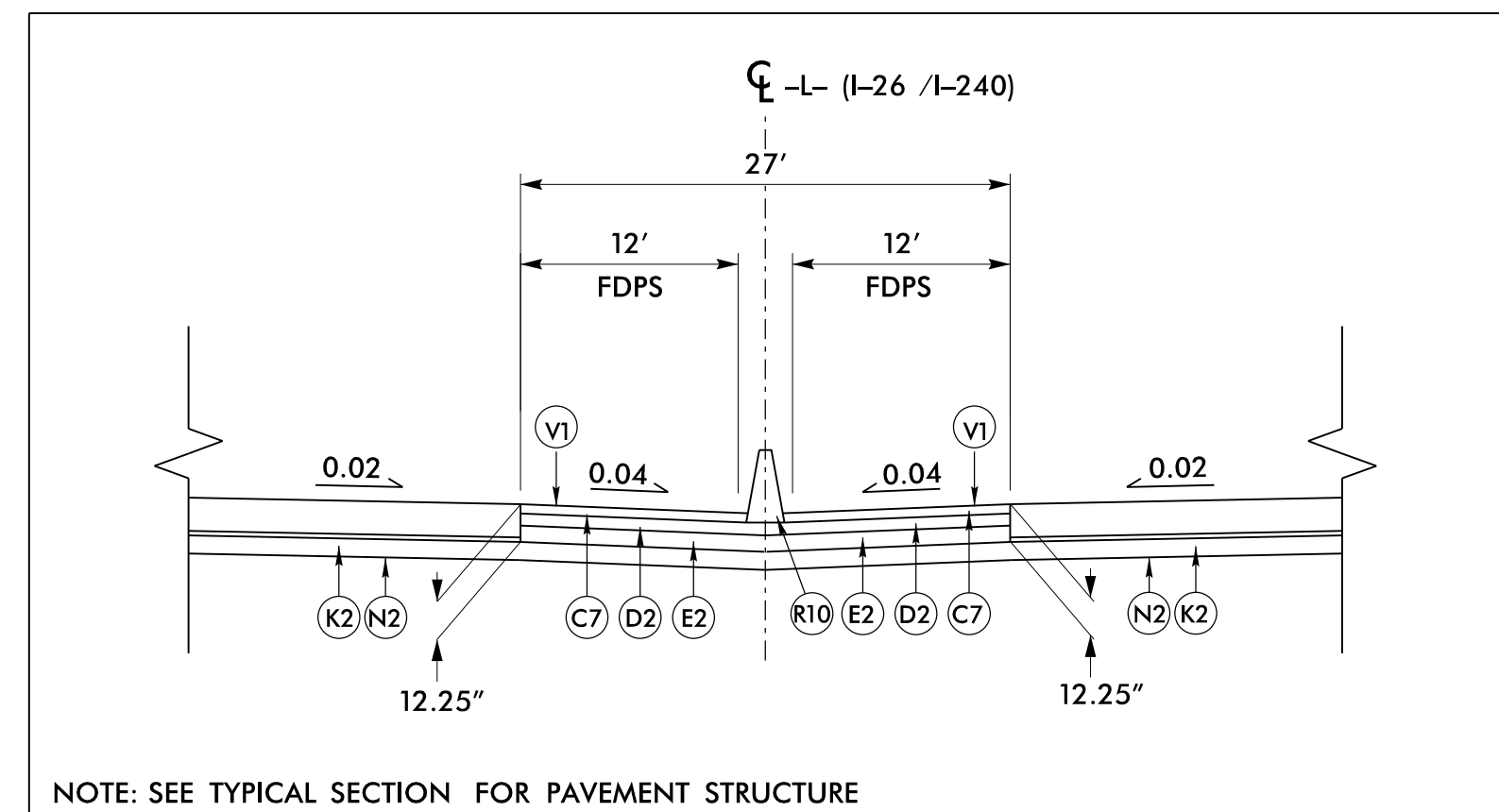
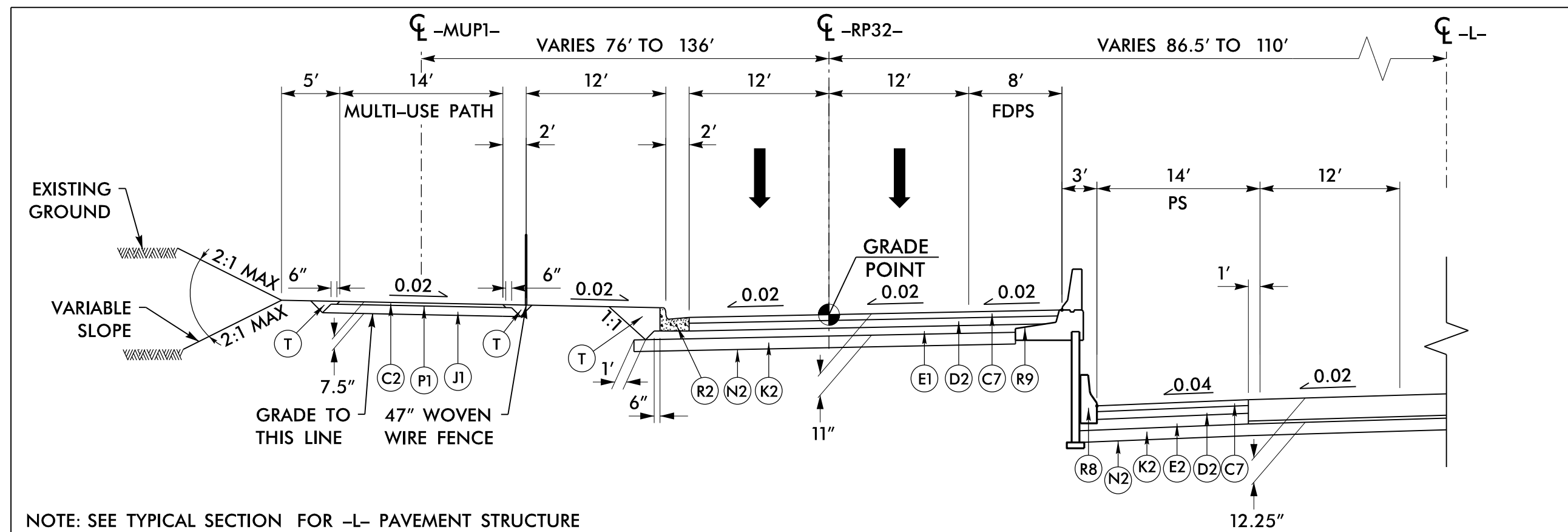
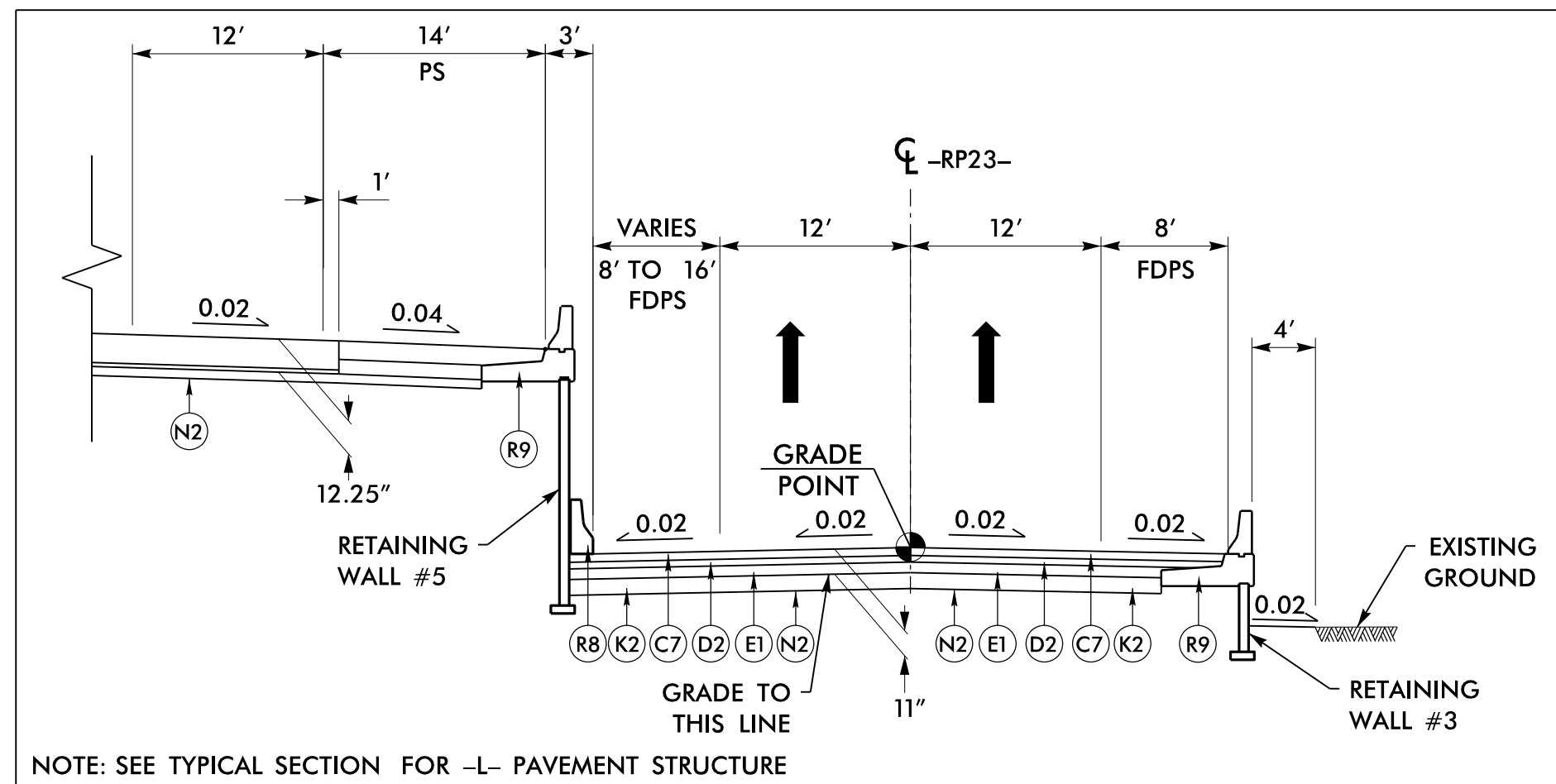
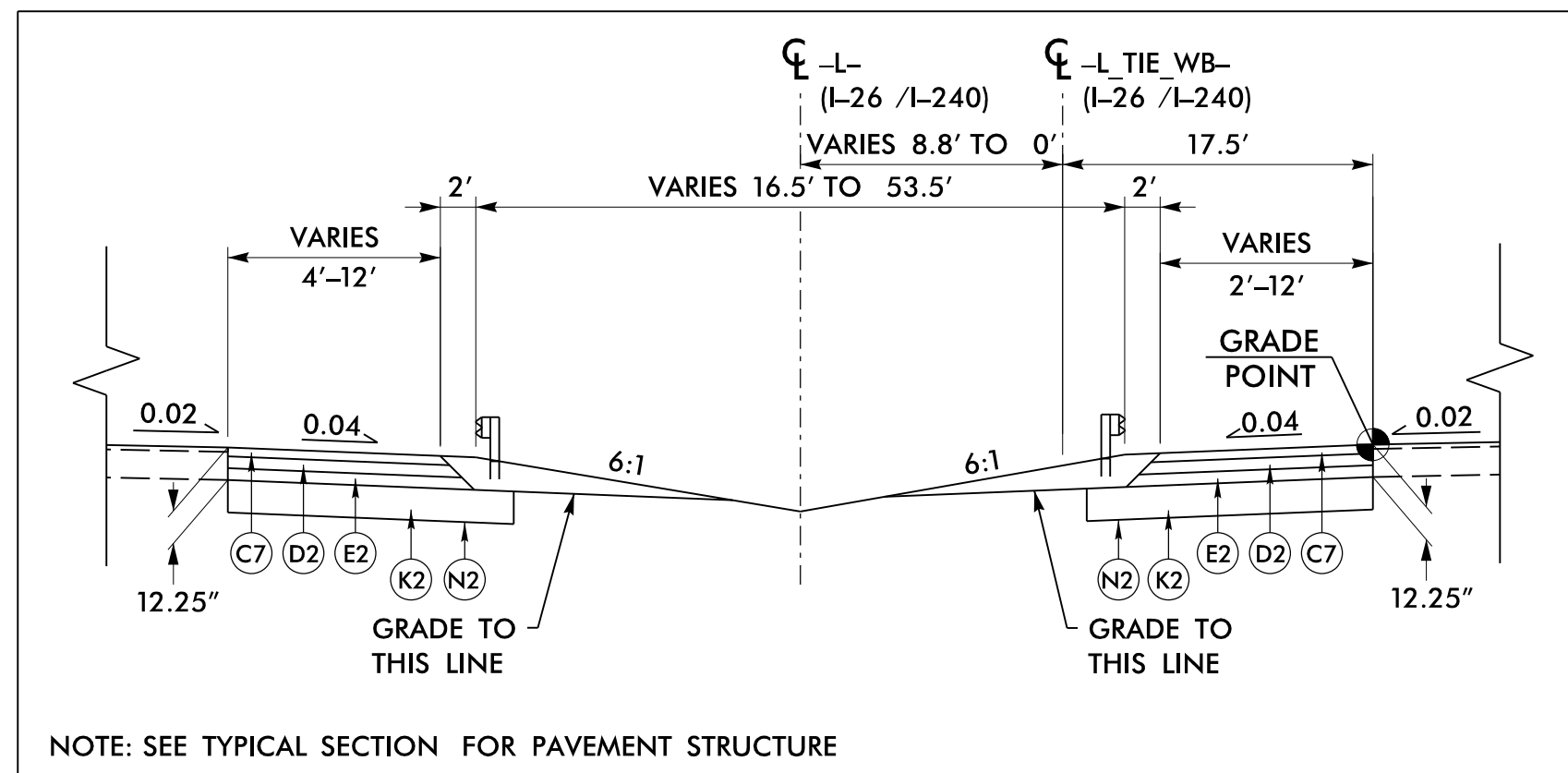
PROJECT REFERENCE NO.		SHEET NO.	
1-2513AC		2A-2	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
8/10/2026		8/10/2026	
Prepared in the Office of: AECOM		NC FIRM LICENSE No: F-0342 5438 Wade Fork, Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6000 • (919) 854-6259 (FAX)	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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

PAVEMENT SCHEDULE

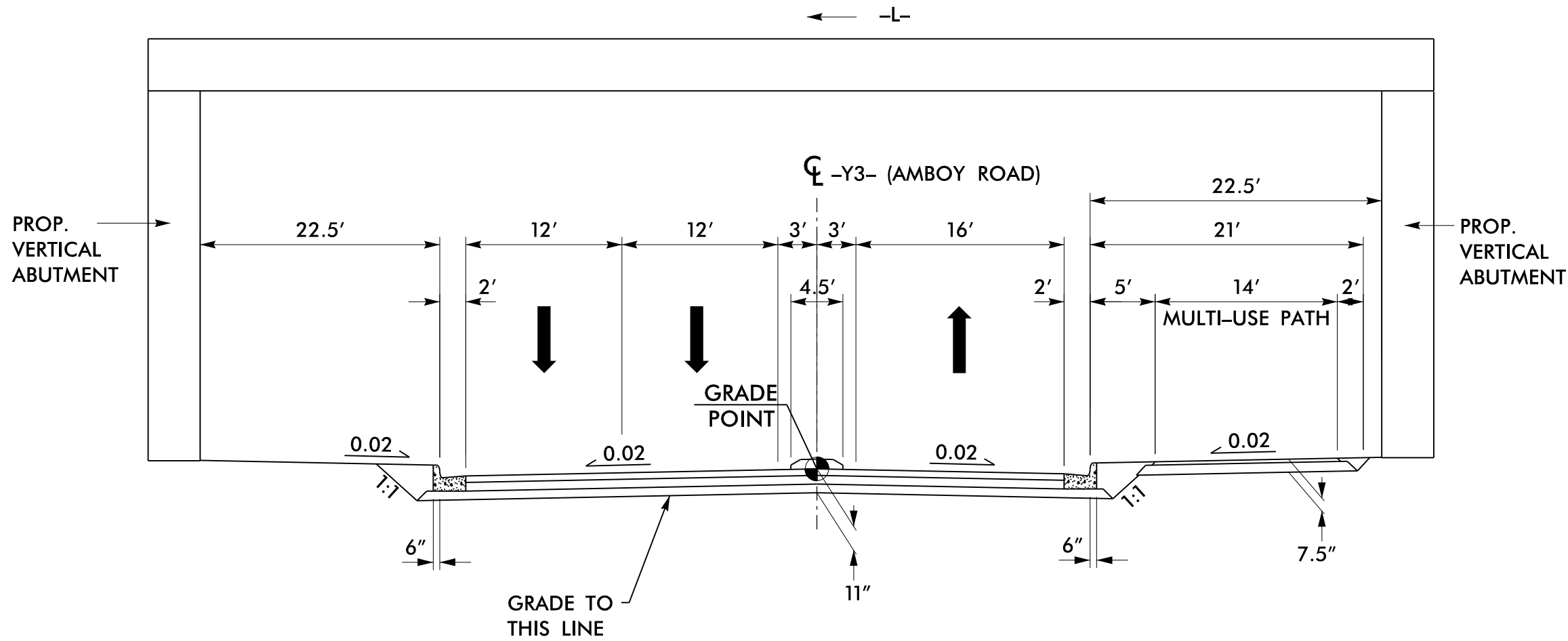
A1	11" PCC PAVE.
A2	12" CONC TRUCK APRON
C1	1 1/4" S9.5B
C2	1 1/2" S9.5B
C3	2" S9.5B
C4	3" S9.5B
C5	VAR. S9.5B
C6	2" S9.5C
C7	3" S9.5C
C8	VAR. S9.5C
D1	2 1/2" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	4" B25.0C
E2	5 1/4" B25.0C
E3	6" B25.0C
E4	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K2	SGS, CLASS IV
N1	NONWOVEN GEO.
N2	GEO. SUB. STAB.
P1	PRIME COAT
R1	1'-6" C&G
R2	2'-6" C&G
R3	8"x18" CURB
R4	5" MONO ISLAND
R5	EXPRESS. GUTTER
R6	SH. BERM GUTTER
R7	SF SS BAR.
R8	PRECAST BARRIER
R9	BARRIER RAIL
R10	SS CONC. BAR.
R11	3" CONC. ISL. CVR
R12	3" ROLLED CURB
S	4" CONC. SW.
T	EARTH MATERIAL

W1	WEDGING DET.#1	U	EXIST. PVMT.
W2	WEDGING DET.#2	V1	RUMBLE STRIPS
W3	WEDGING DET.#3	V2	INC MILLING

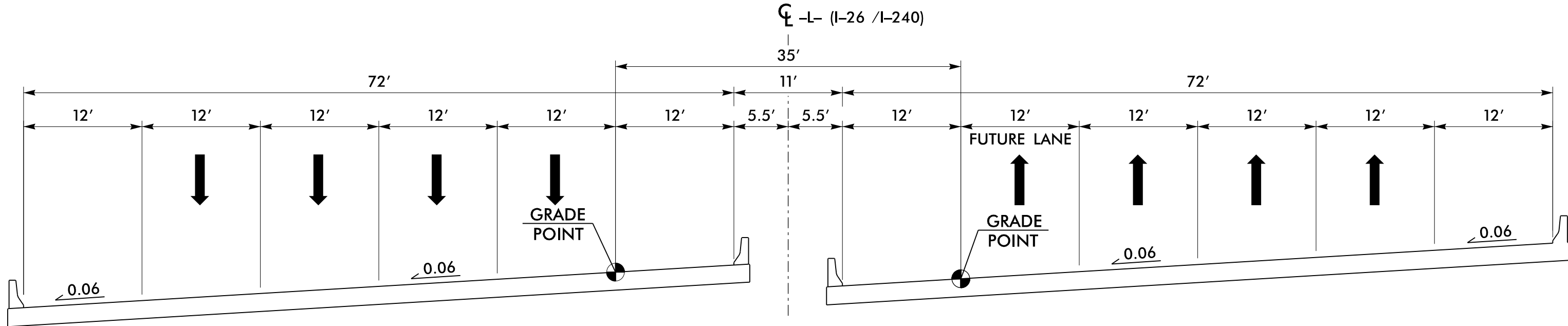


PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 2A-3	
ROADWAY DESIGN ENGINEER  8/10/2026		PAVEMENT DESIGN ENGINEER  8/10/2026	
Prepared in the Office of: AECOM		NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259(FAX)	
DO NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

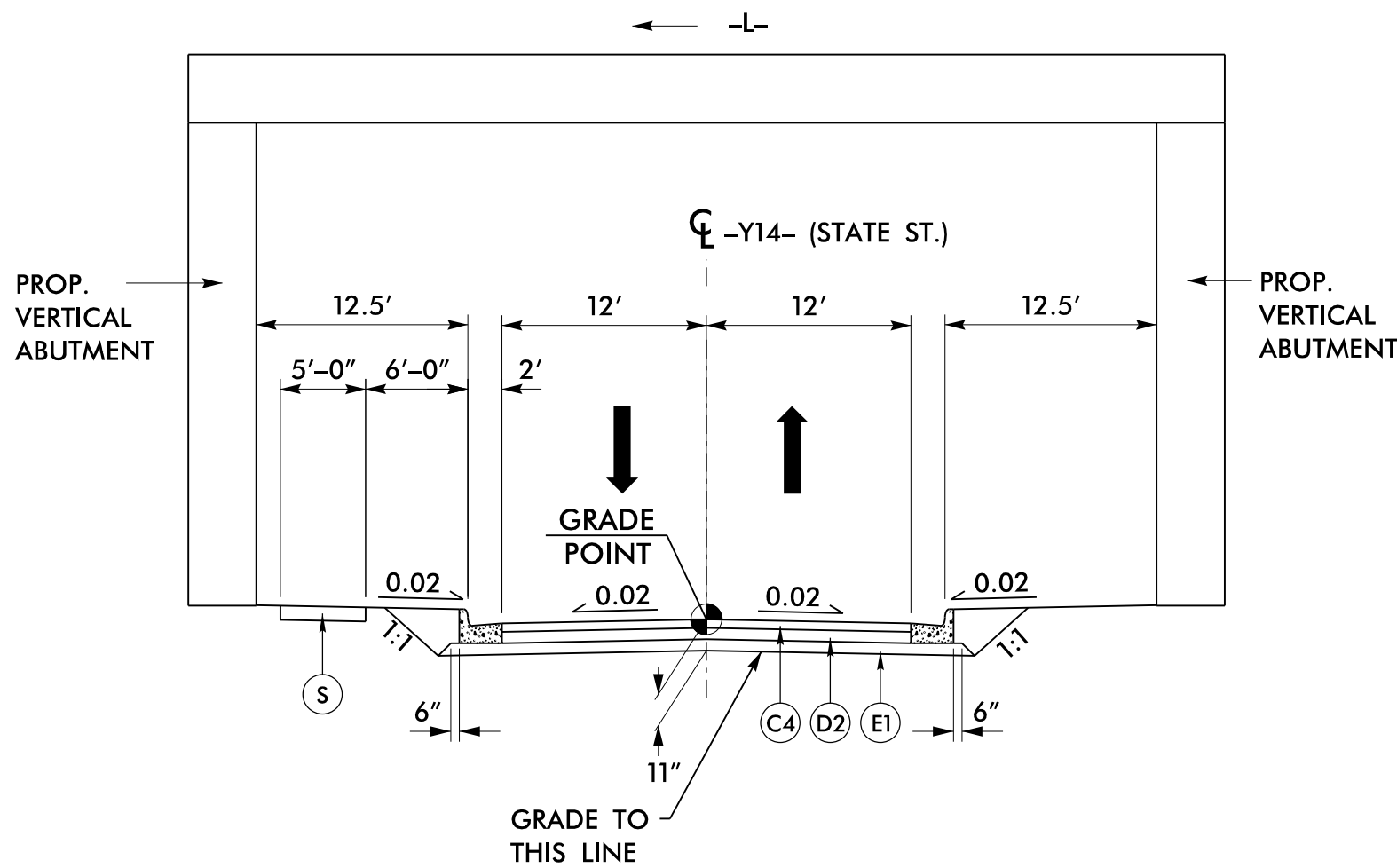
E. PAVEMENT EDGE SLOPES 1:1 UNLESS SHOWN OTHERWISE.		PAVEMENT SCHEDULE	
		A1	11" PCC PAVE.
		A2	12" CONC TRUCK APRON
		C1	1 1/4" S9.5B
		C2	1 1/2" S9.5B
		C3	2" S9.5B
		C4	3" S9.5B
		C5	VAR. S9.5B
		C6	2" S9.5C
		C7	3" S9.5C
		C8	VAR. S9.5C
		D1	2 1/2" I19.0C
		D2	4" I19.0C
		D3	VAR. I19.0C
		E1	4" B25.0C
		E2	5 1/4" B25.0C
		E3	6" B25.0C
		E4	VAR. B25.0C
		J1	6" ABC
		J2	8" ABC
		J3	10" ABC
		K2	SGS, CLASS IV
		N1	NONWOVEN GEO.
		N2	GEO. SUB. STAB.
		P1	PRIME COAT
		R1	1'-6" C&G
		R2	2'-6" C&G
		R3	8"x18" CURB
		R4	5" MONO ISLAND
		R5	EXPRESS. GUTTER
		R6	SH. BERM GUTTER
		R7	SF SS BAR.
		R8	PRECAST BARRIER
		R9	BARRIER RAIL
		R10	SS CONC. BAR.
		R11	3" CONC. ISL. CVR
		R12	3" ROLLED CURB
		S	4" CONC. SW.
		T	EARTH MATERIAL
W1	WEDGING DET. #1	U	EXIST. PVMT.
W2	WEDGING DET. #2	V1	RUMBLE STRIPS
W3	WEDGING DET. #3	V2	INC MILLING



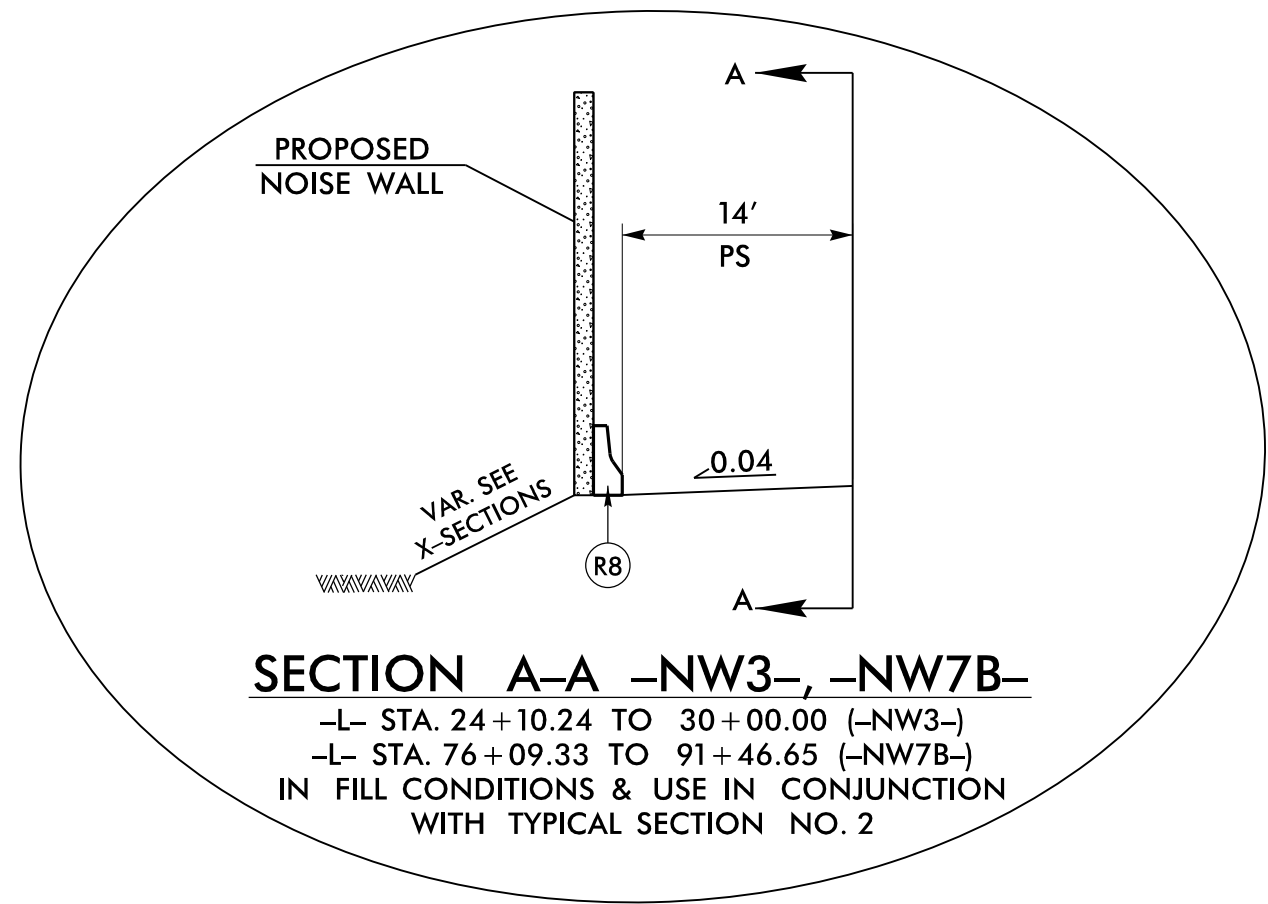
TYPICAL SECTION UNDER STRUCTURE
-L- I-26/I-240 OVER -Y3- AMBOY ROAD



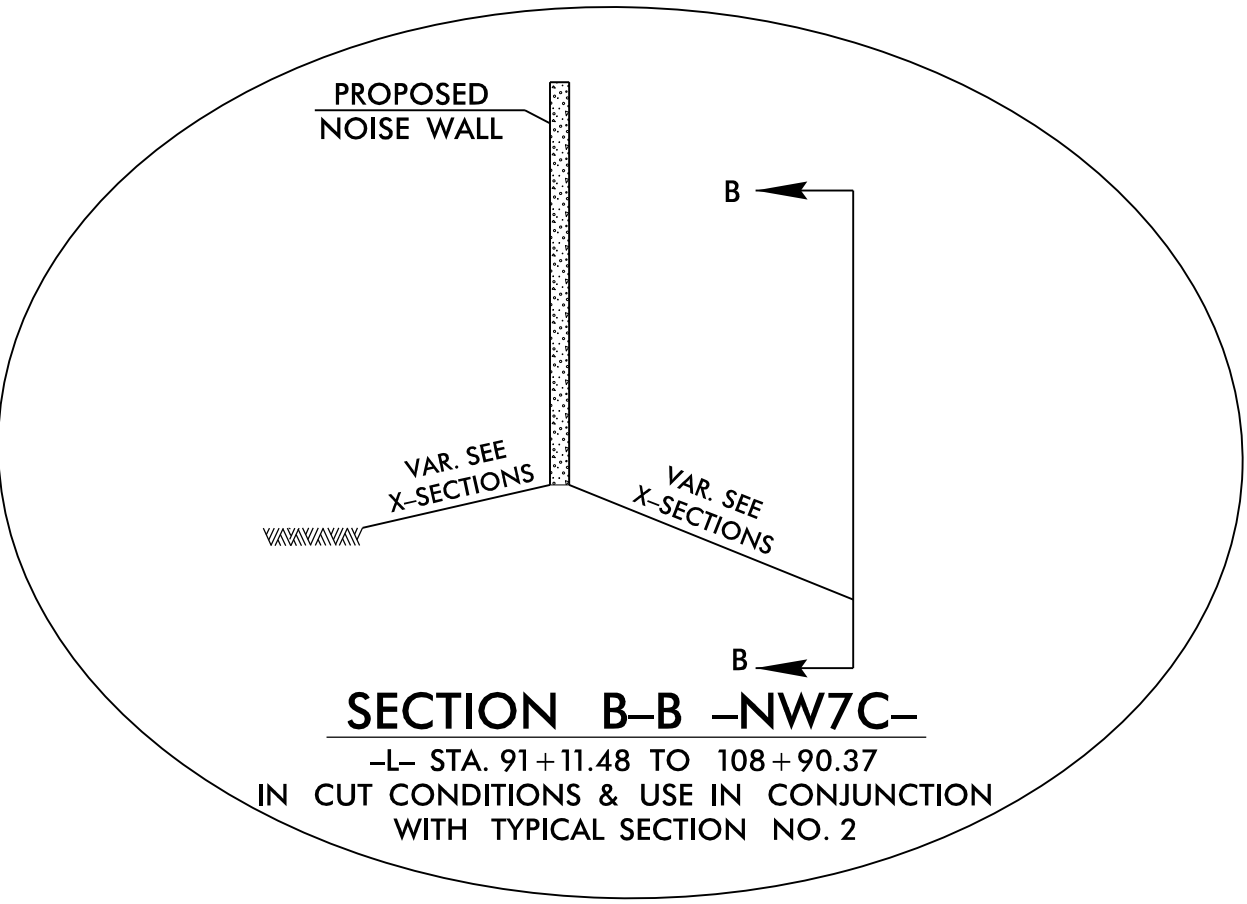
STRUCTURE TYPICAL SECTION
-L- I-26/I-240 OVER -Y14- STATE STREET
STA. 104+85.39 RT TO 105+81.73 RT
STA. 105+17.77 LT TO 106+16.96 LT



TYPICAL SECTION UNDER STRUCTURE
-L- I-26/I-240 OVER -Y14- STATE STREET



SECTION A-A -NW3-, -NW7B-
-L- STA. 24+10.24 TO 30+00.00 (-NW3-)
-L- STA. 76+09.33 TO 91+46.65 (-NW7B-)
IN FILL CONDITIONS & USE IN CONJUNCTION
WITH TYPICAL SECTION NO. 2



SECTION B-B -NW7C-
-L- STA. 91+11.48 TO 108+90.37
IN CUT CONDITIONS & USE IN CONJUNCTION
WITH TYPICAL SECTION NO. 2

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

PAVEMENT SCHEDULE

A1	11" PCC PAVE.
A2	12" CONC TRUCK APRON
C1	1 1/4" S9.5B
C2	1 1/2" S9.5B
C3	2" S9.5B
C4	3" S9.5B
C5	VAR. S9.5B
C6	2" S9.5C
C7	3" S9.5C
C8	VAR. S9.5C
D1	2 1/2" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	4" B25.0C
E2	5 1/4" B25.0C
E3	6" B25.0C
E4	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K2	SGS, CLASS IV
N1	NONWOVEN GEO.
N2	GEO. SUB. STAB.
P1	PRIME COAT
R1	1'-6" C&G
R2	2'-6" C&G
R3	8"x18" CURB
R4	5" MONO ISLAND
R5	EXPRESS. GUTTER
R6	SH. BERM GUTTER
R7	SF SS BAR.
R8	PRECAST BARRIER
R9	BARRIER RAIL
R10	SS CONC. BAR.
R11	3" CONC. ISL. CVR
R12	3" ROLLED CURB
S	4" CONC. SW.
T	EARTH MATERIAL

W1	WEDGING DET.#1	U	EXIST. PVMT.
W2	WEDGING DET.#2	V1	RUMBLE STRIPS
W3	WEDGING DET.#3	V2	INC MILLING

6/2/2026

6/10/2026
12:53:36 PM
muhammad.falaha

PROJECT REFERENCE NO.
1-2513AC

SHEET NO.
2A-5

ROADWAY DESIGN
ENGINEER

8/10/2026

PAVEMENT DESIGN
ENGINEER

8/10/2026

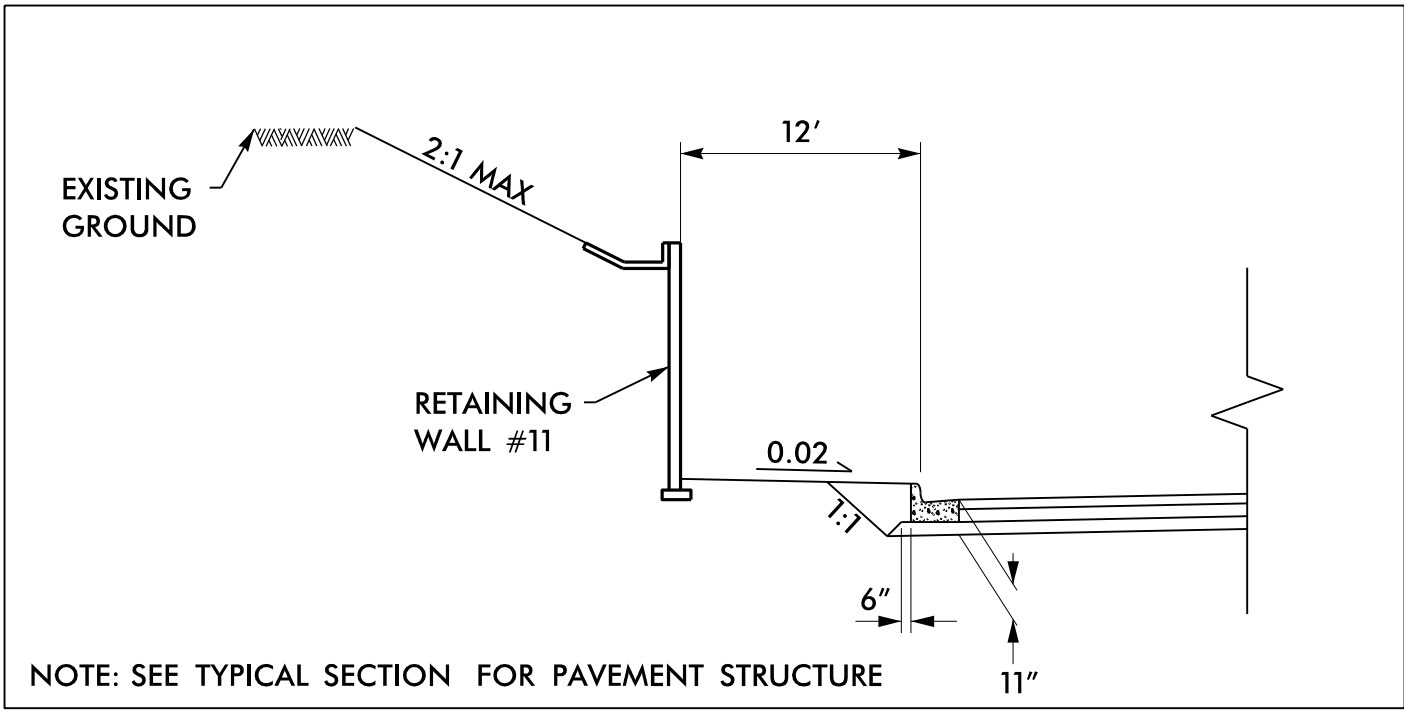
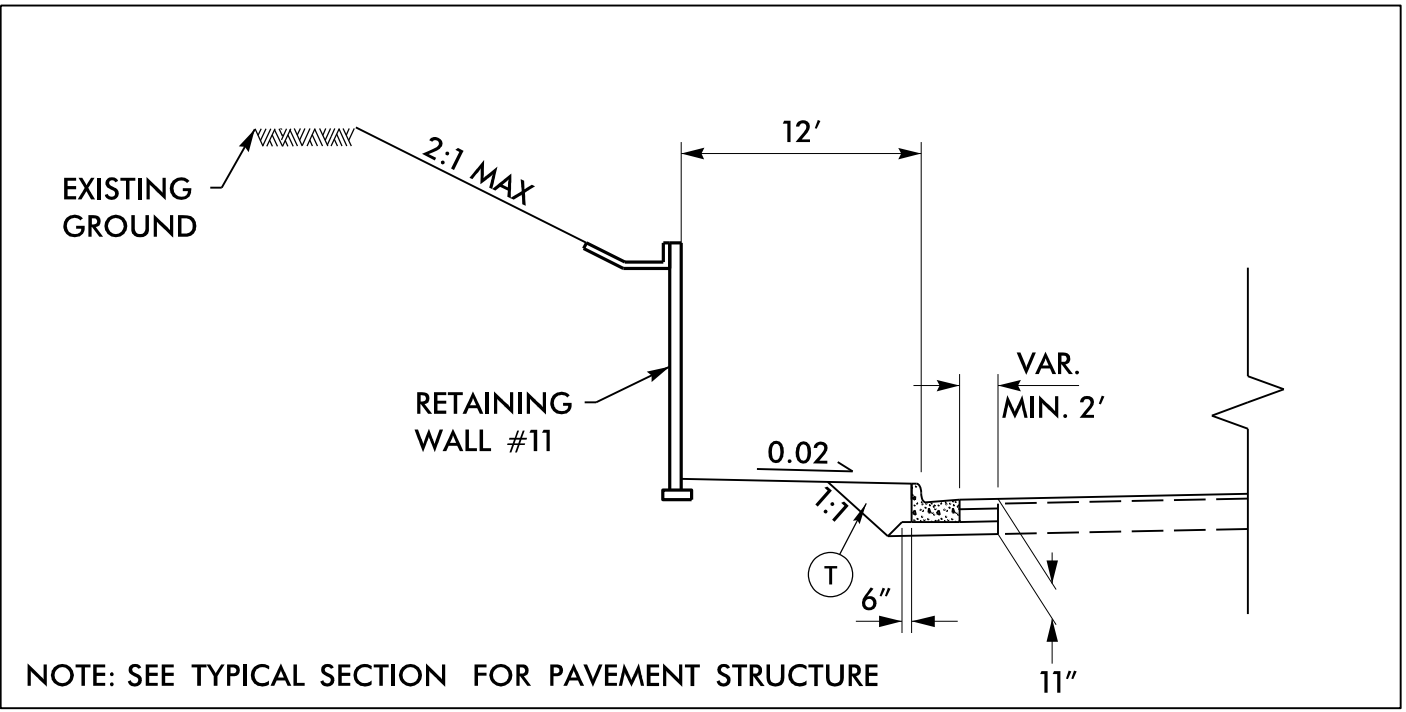
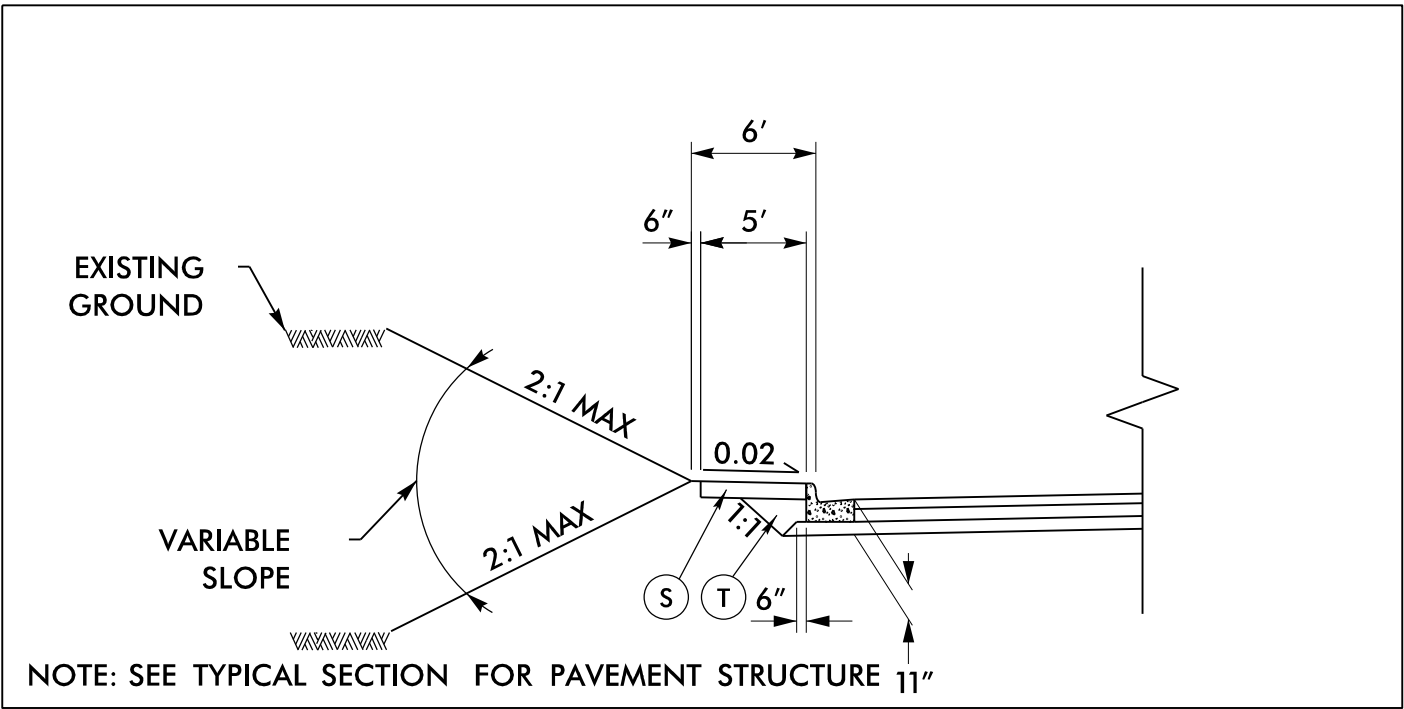
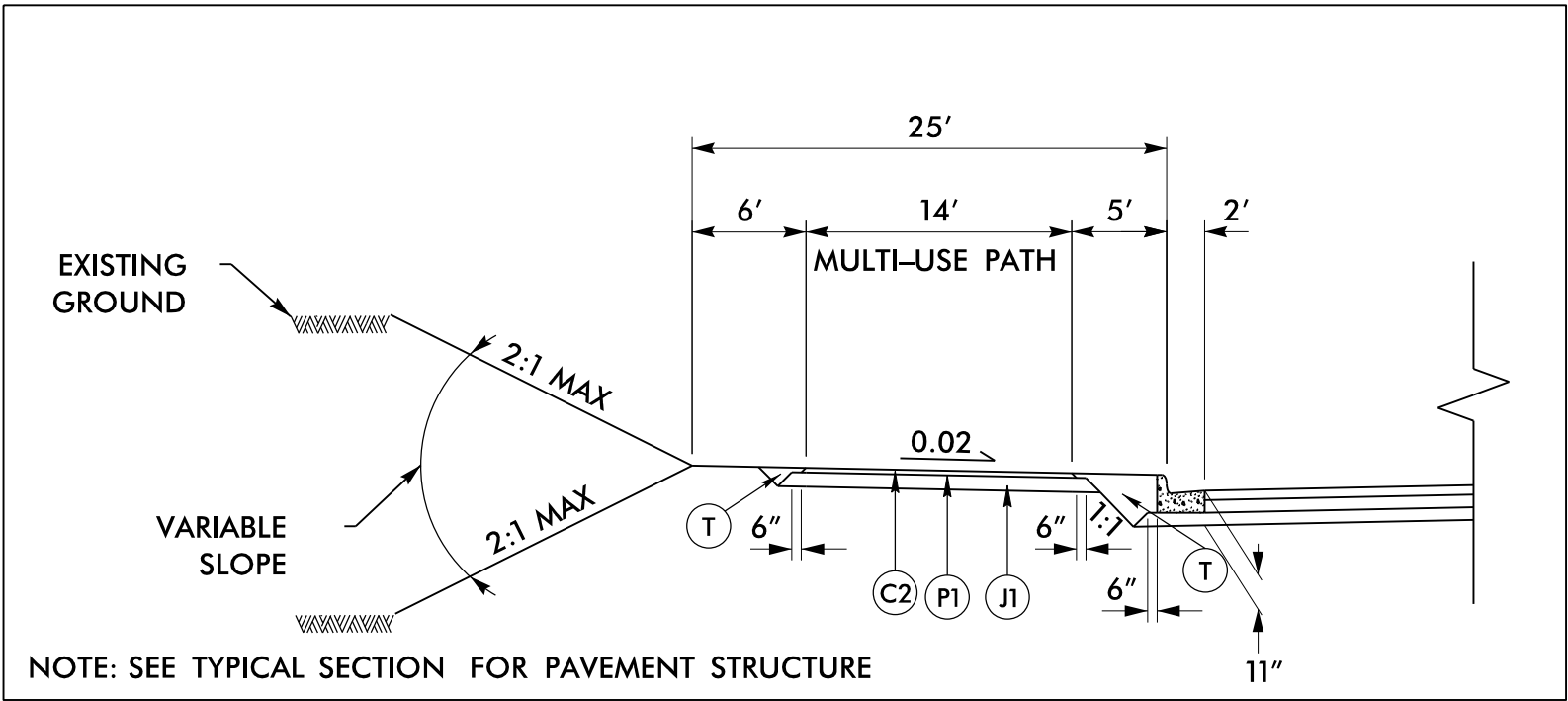
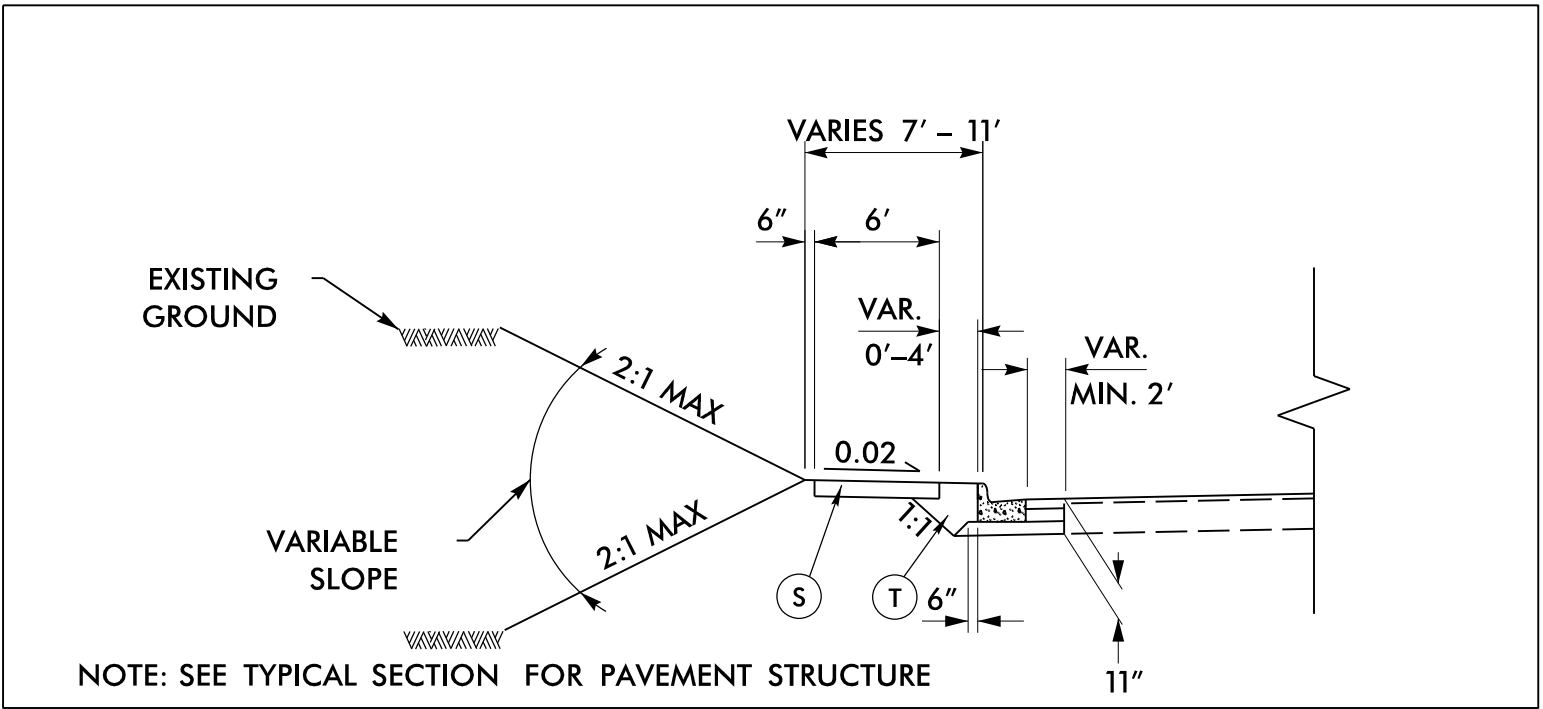
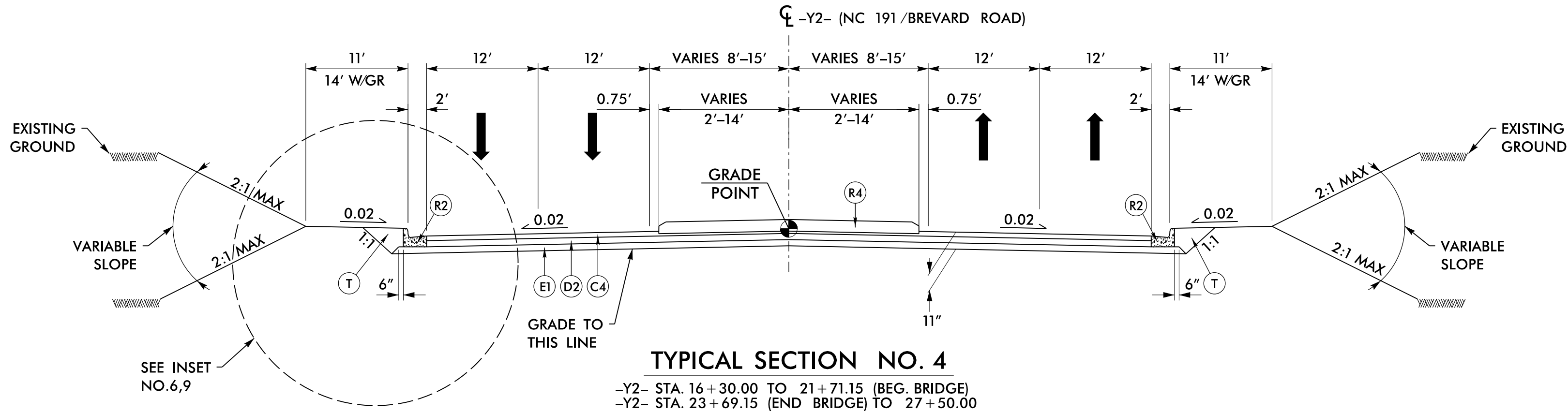
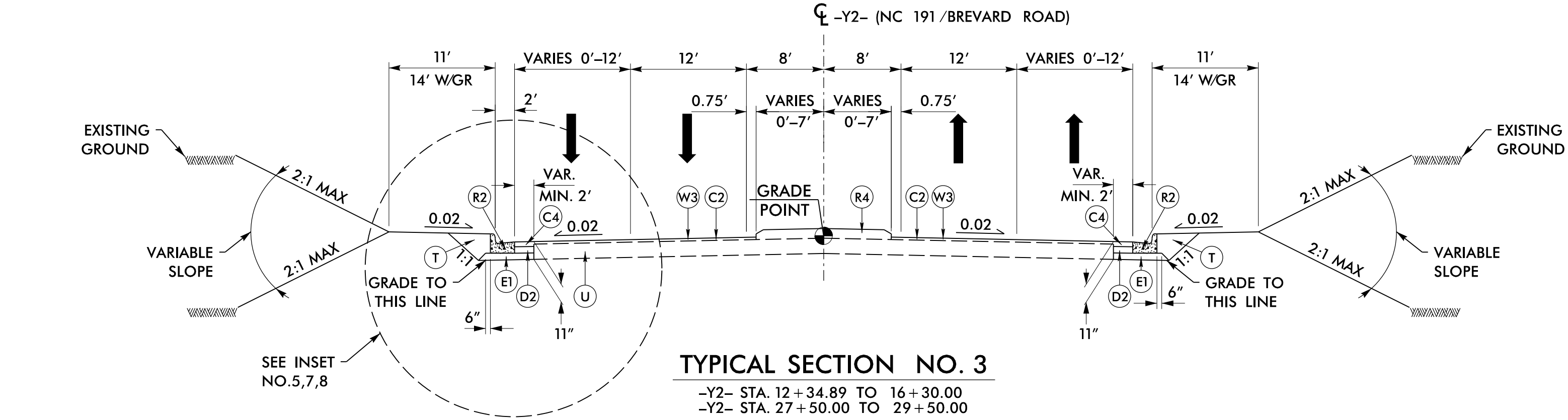
Prepared in the
Office of:
AECOM

NC FIRM LICENSE No: F-0342
5438 Wade Park, Boulevard, Suite 200
Raleigh, NC 27607
(919) 854-6000 • (919) 854-6259 (FAX)

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

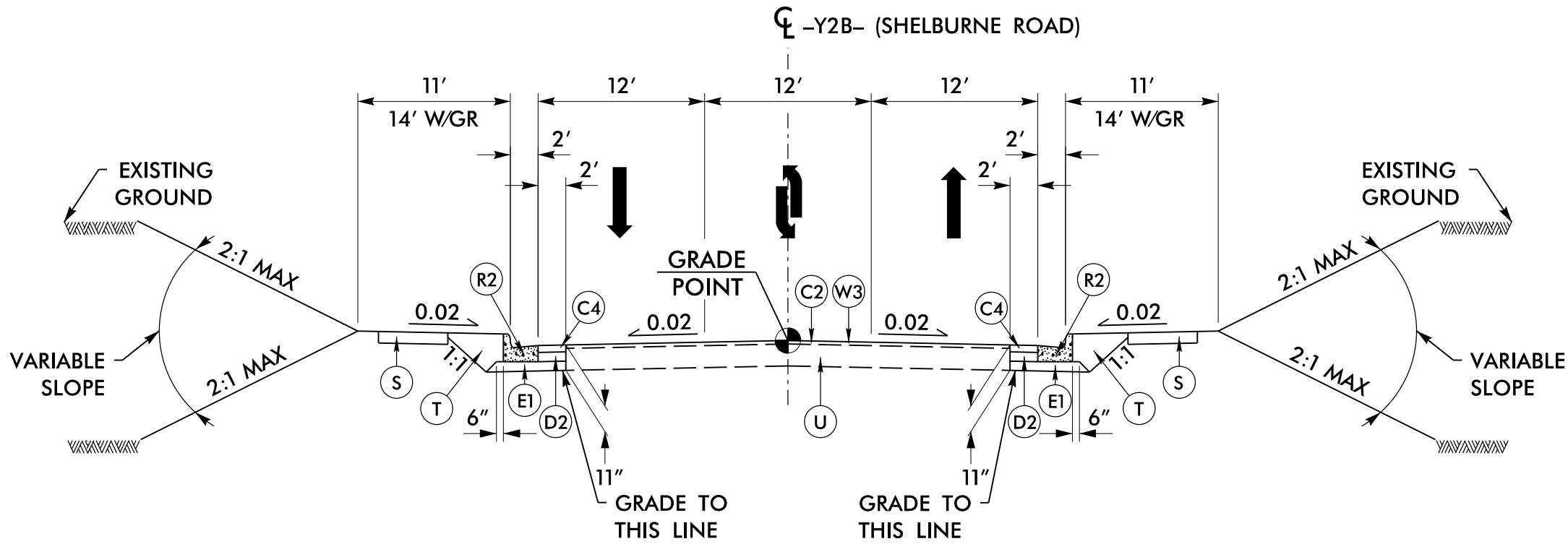
NOTE: PAVEMENT EDGE SLOPES
ARE 1:1 UNLESS SHOWN OTHERWISE.

PAVEMENT SCHEDULE	
A1	11" PCC PAVE.
A2	12" CONC TRUCK APRON
C1	1 1/4" S9.5B
C2	1 1/2" S9.5B
C3	2" S9.5B
C4	3" S9.5B
C5	VAR. S9.5B
C6	2" S9.5C
C7	3" S9.5C
C8	VAR. S9.5C
D1	2 1/2" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	4" B25.0C
E2	5 1/4" B25.0C
E3	6" B25.0C
E4	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K2	SGS, CLASS IV
N1	NONWOVEN GEO.
N2	GEO. SUB. STAB.
P1	PRIME COAT
R1	1'-6" C&G
R2	2'-6" C&G
R3	8"x18" CURB
R4	5" MONO ISLAND
R5	EXPRESS. GUTTER
R6	SH. BERM GUTTER
R7	SF SS BAR.
R8	PRECAST BARRIER
R9	BARRIER RAIL
R10	SS CONC. BAR.
R11	3" CONC. ISL. CVR
R12	3" ROLLED CURB
S	4" CONC. SW.
T	EARTH MATERIAL
U	EXIST. PVMT.
V1	RUMBLE STRIPS
V2	INC MILLING



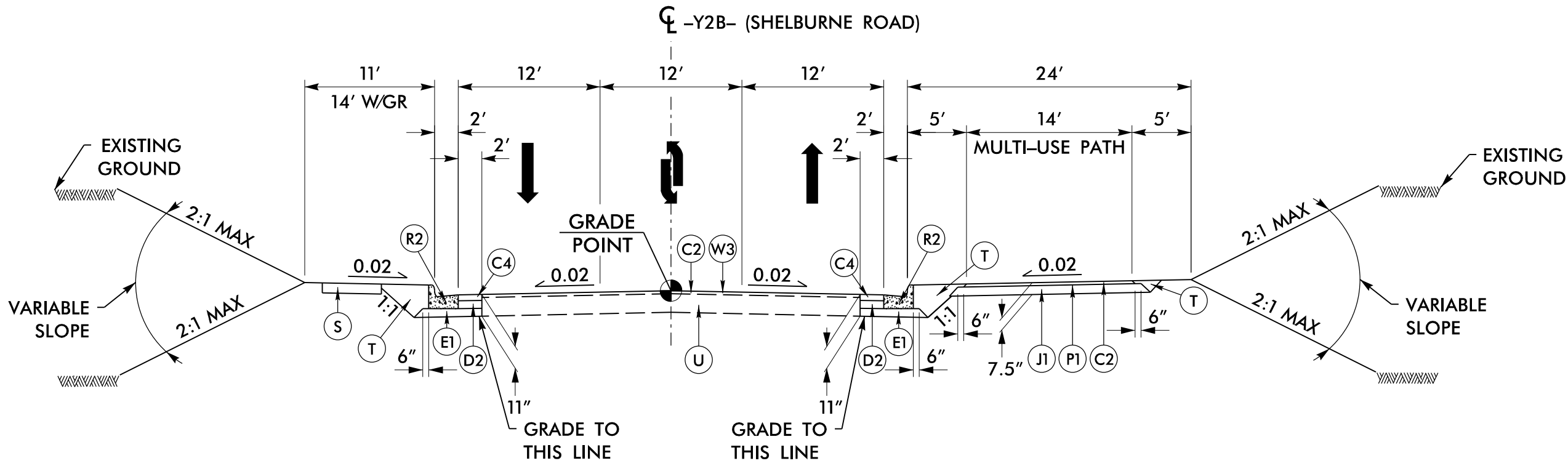
6/2/2026

8/10/2026
25/36
Mohammed F. Al-Habib



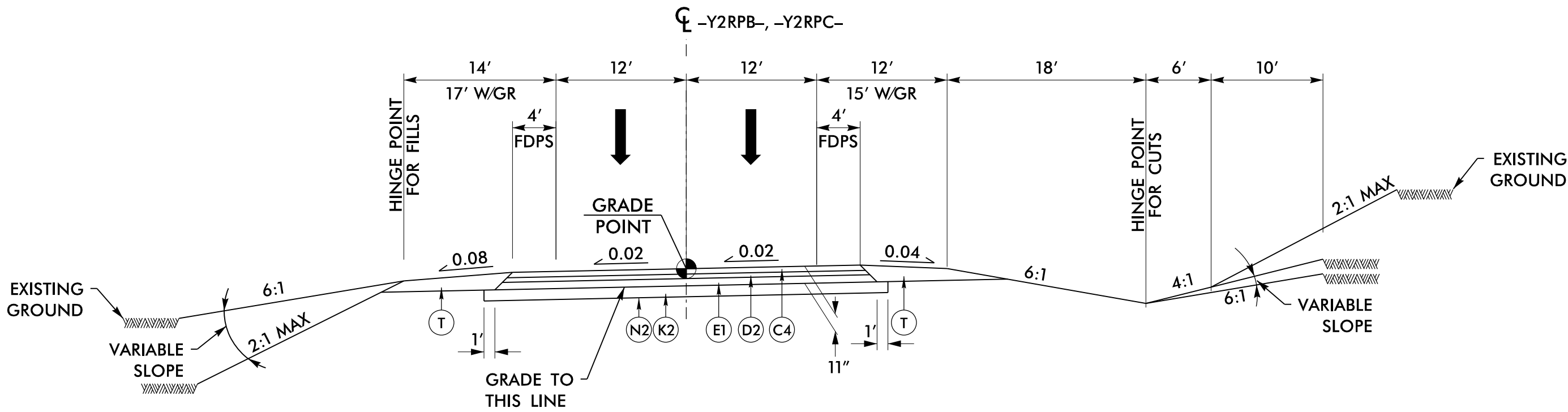
TYPICAL SECTION NO. 7A

-Y2B- STA. 11+50.00 TO 14+22.80



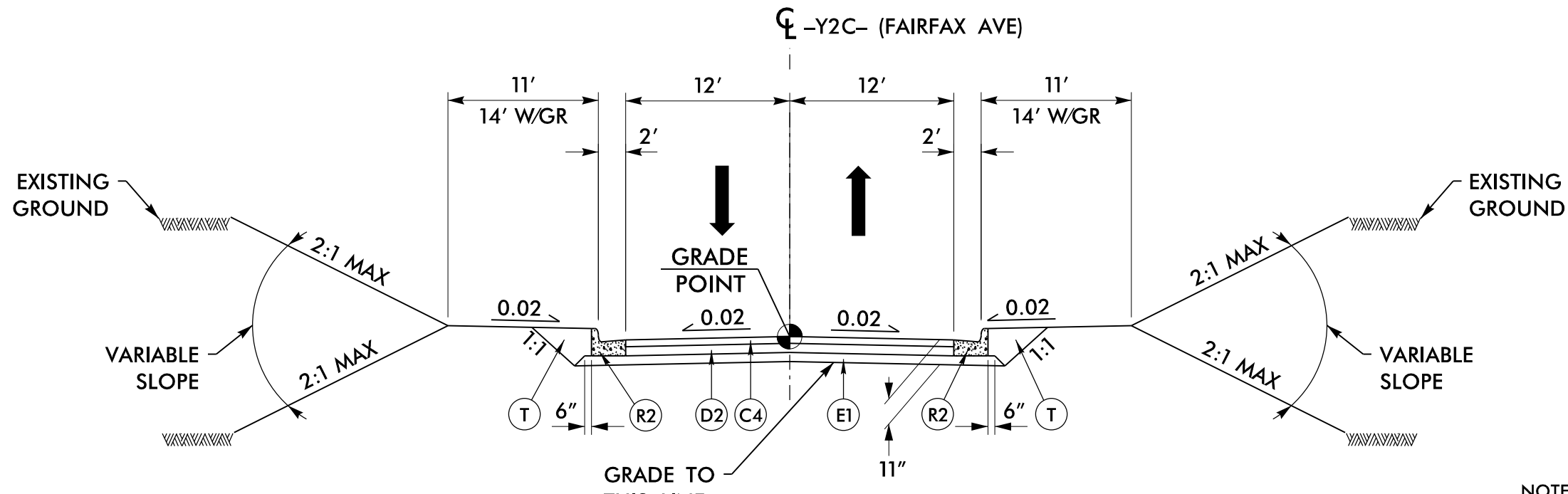
TYPICAL SECTION NO. 7B

-Y2B- STA. 14+22.80 TO 16+15.00



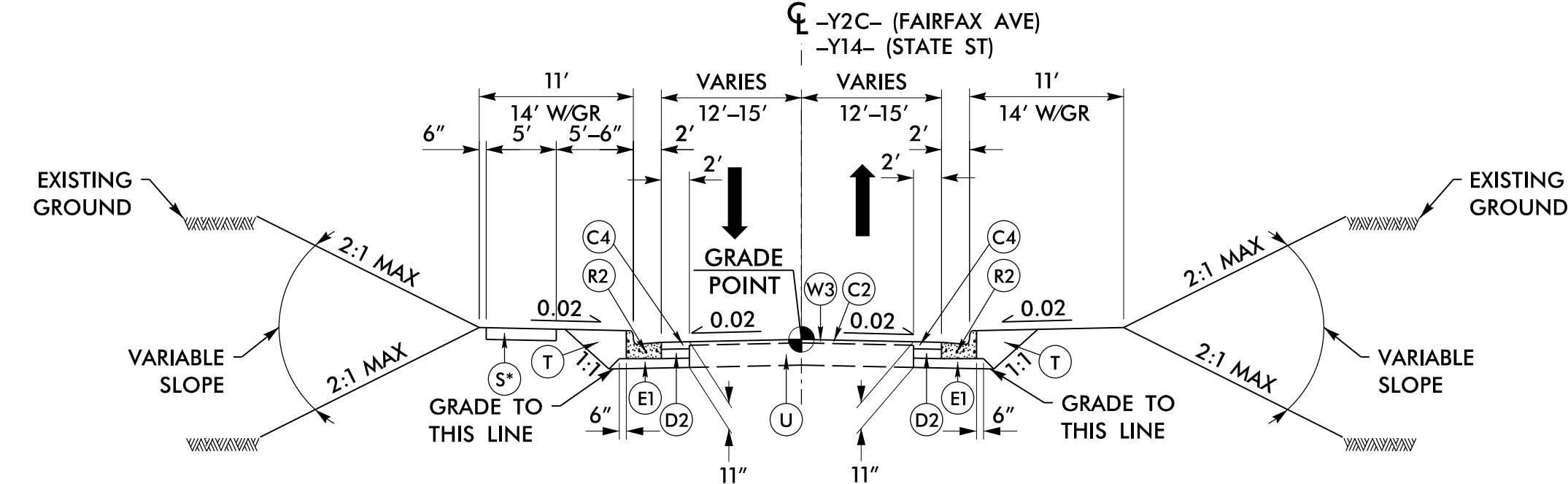
TYPICAL SECTION NO. 11

-Y2RPB- STA. 14+94.11 TO 17+00.00 (BEG. BRIDGE)
-Y2RPB- STA. 21+35.00 (END BRIDGE) TO 28+59.75
-Y2RPC- STA. 24+13.06 TO 26+16.00 (BEG. BRIDGE) (MIRROR IMAGE)



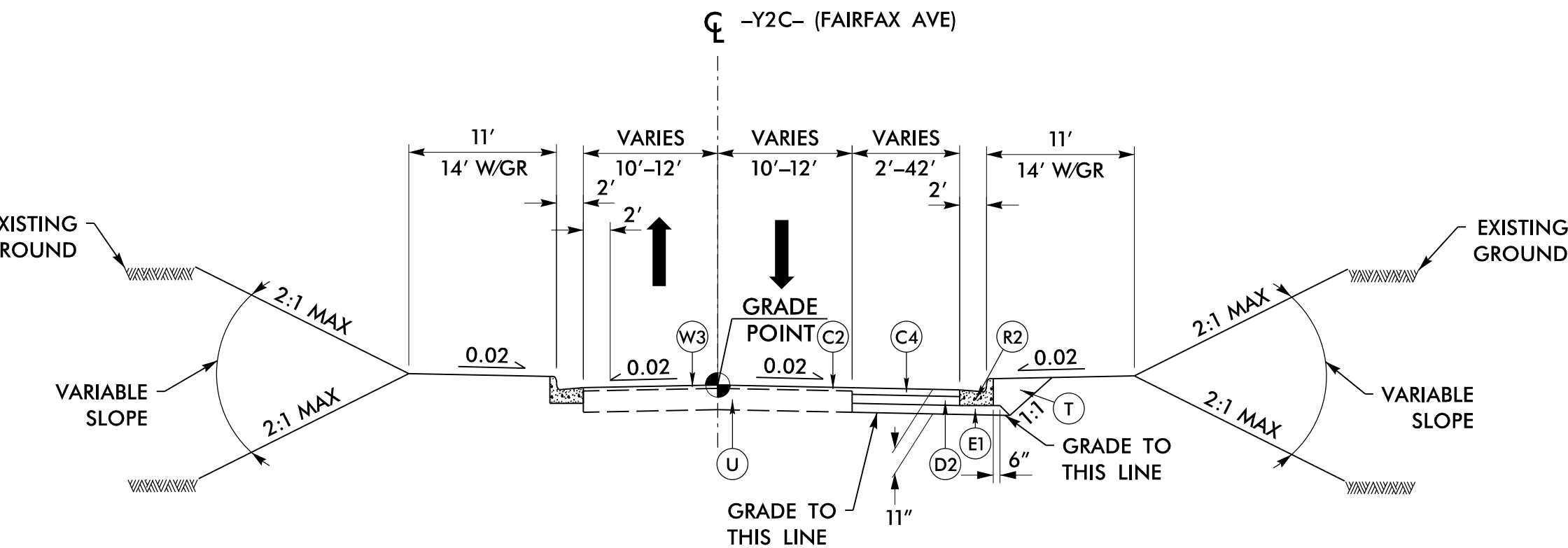
TYPICAL SECTION NO. 8

-Y2C- STA. 10+40.49 TO 12+30.00



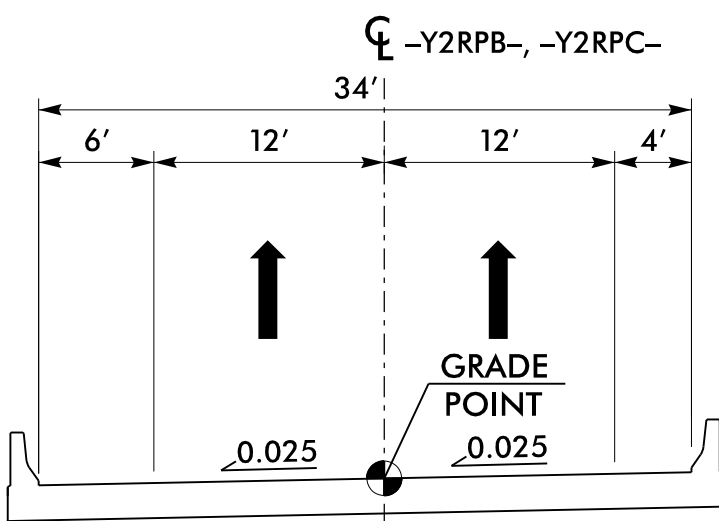
TYPICAL SECTION NO. 9

-Y2C- STA. 12+30.00 TO 13+00.00
-Y14- STA. 12+15.00 TO 15+40.00



TYPICAL SECTION NO. 10

-Y2C- STA.13+00.00 TO 13+96.15



STRUCTURE TYPICAL SECTION

-Y2RPB- 17+00.00 (BEG. BRIDGE) TO 21+35.00 (END BRIDGE)
-Y2RPC- 26+16.00 (BEGIN BRIDGE) TO 30+76.00 (END BRIDGE)

PROJECT REFERENCE NO.		SHEET NO.	
1-25/3AC		2A-7	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
8/10/2026		8/10/2026	
Prepared in the Office of:		NC FIRM LICENSE No: F-0342 5438 Wade Park, Boulevard Suite 200 Raleigh, NC 27607 (919) 854-6000 - (919) 854-6259 (FAX)	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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

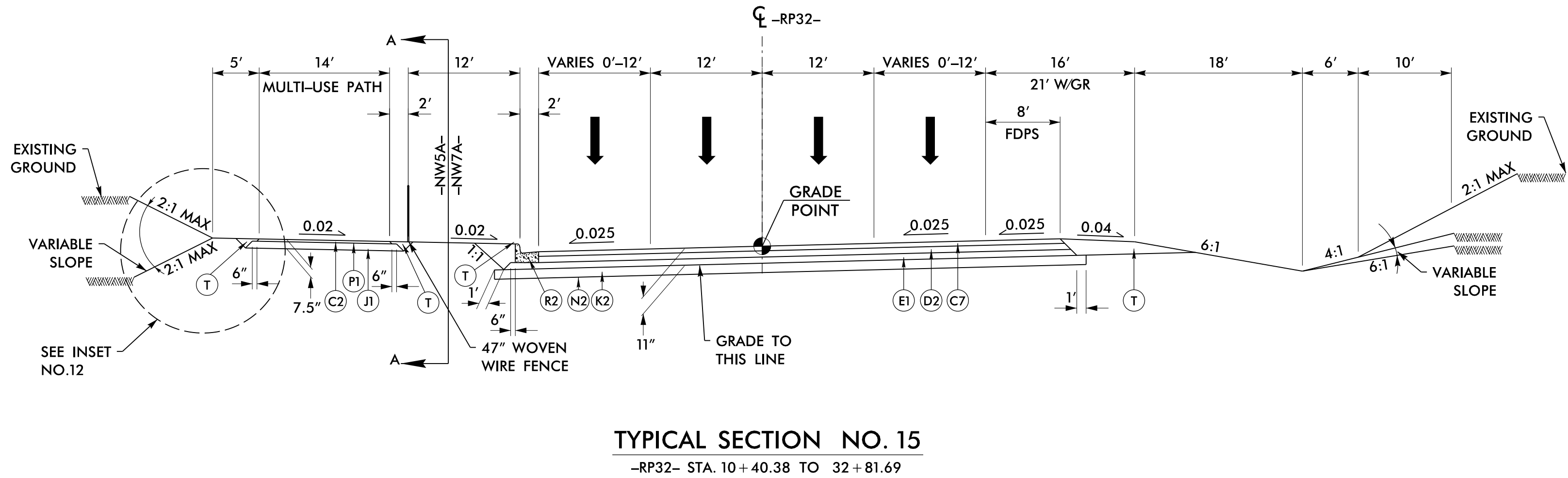
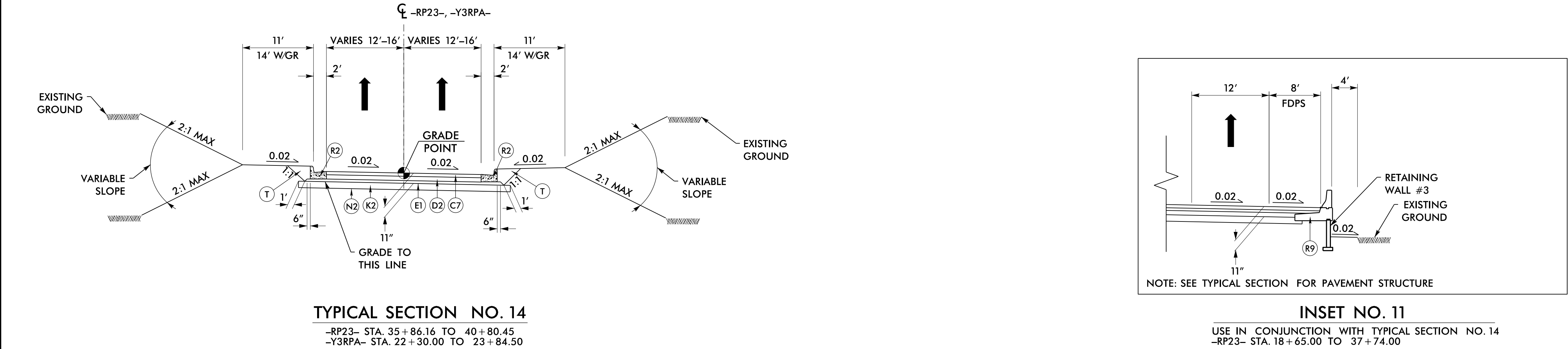
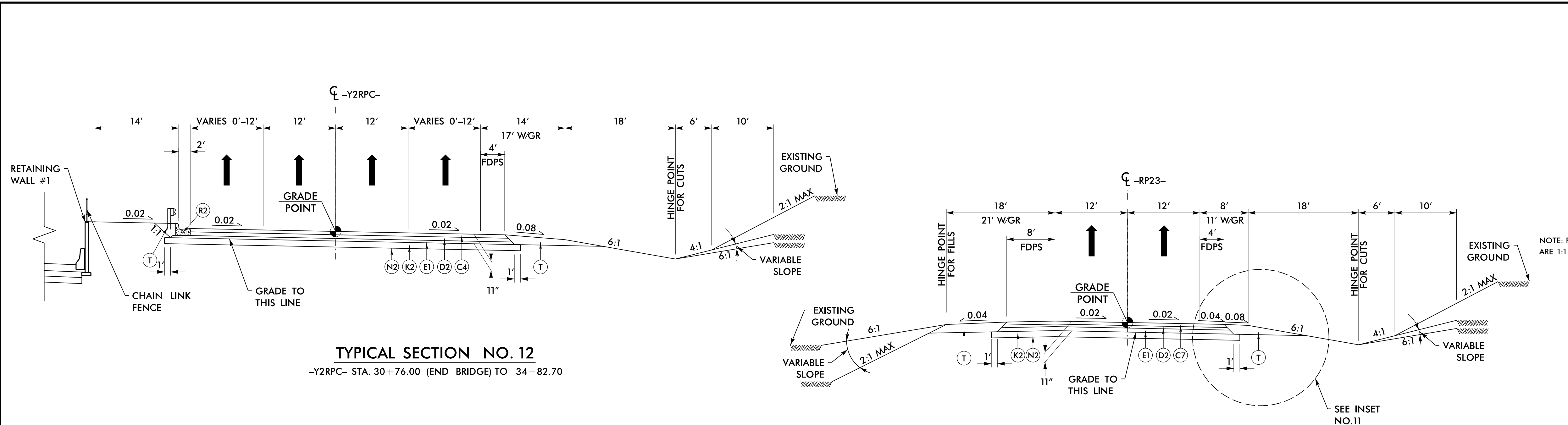
PAVEMENT SCHEDULE

A1	11" PCC PAVE.
A2	12" CONC TRUCK APRON
C1	1 1/4" S9.5B
C2	1 1/2" S9.5B
C3	2" S9.5B
C4	3" S9.5B
C5	VAR. S9.5B
C6	2" S9.5C
C7	3" S9.5C
C8	VAR. S9.5C
D1	2 1/2" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	4" B25.0C
E2	5 1/4" B25.0C
E3	6" B25.0C
E4	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K2	SGS, CLASS IV
N1	NONWOVEN GEO.
N2	GEO. SUB. STAB.
P1	PRIME COAT
R1	1'-6" C&G
R2	2'-6" C&G
R3	8"x18" CURB
R4	5" MONO ISLAND
R5	EXPRESS. GUTTER
R6	SH. BERM GUTTER
R7	SF SS BAR.
R8	PRECAST BARRIER
R9	BARRIER RAIL
R10	SS CONC. BAR.
R11	3" CONC. ISL. CVR
R12	3" ROLLED CURB
S	4" CONC. SW.
T	EARTH MATERIAL

W1	WEDGING DET.#1	U	EXIST. PVMT.
W2	WEDGING DET.#2	V1	RUMBLE STRIPS
W3	WEDGING DET.#3	V2	INC MILLING

6/2/2026

8/10/2026
P2513636.dwg, typ.dgn
Mohammed F. Al-Habib



PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 2A-8	
ROADWAY DESIGN ENGINEER 		PAVEMENT DESIGN ENGINEER 	
Prepared in the Office of: AECOM		NC FIRM LICENSE No. F-0342 5438 Wade Fork, Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6000 • (919) 854-6259 (FAX)	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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

PAVEMENT SCHEDULE	
A1	11" PCC PAVE.
A2	12" CONC TRUCK APRON
C1	1¼" S9.5B
C2	1½" S9.5B
C3	2" S9.5B
C4	3" S9.5B
C5	VAR. S9.5B
C6	2" S9.5C
C7	3" S9.5C
C8	VAR. S9.5C
D1	2 ½" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	4" B25.0C
E2	5 ¼" B25.0C
E3	6" B25.0C
E4	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K2	SGS, CLASS IV
N1	NONWOVEN GEO.
N2	GEO. SUB. STAB.
P1	PRIME COAT
R1	1'-6" C&G
R2	2'-6" C&G
R3	8"x18" CURB
R4	5" MONO ISLAND
R5	EXPRESS. GUTTER
R6	SH. BERM GUTTER
R7	SF SS BAR.
R8	PRECAST BARRIER
R9	BARRIER RAIL
R10	SS CONC. BAR.
R11	3" CONC. ISL. CVR
R12	3" ROLLED CURB
S	4" CONC. SW.
T	EARTH MATERIAL
U	EXIST. PVMT.
V1	RUMBLE STRIPS
V2	INC MILLING



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

W1	WEDGING DET.#1	U	EXIST. PVMT.
W2	WEDGING DET.#2	V1	RUMBLE STRIPS
W3	WEDGING DET.#3	V2	INC MILLING

6/2/2026

8/10/2026
2:25:36 PM
Muhammad Falaq

PROJECT REFERENCE NO.
1-2513AC

SHEET NO.
2A-10

ROADWAY DESIGN
ENGINEER

8/10/2026

PAVEMENT DESIGN
ENGINEER

8/10/2026

Prepared in the
Office of:
AECOM

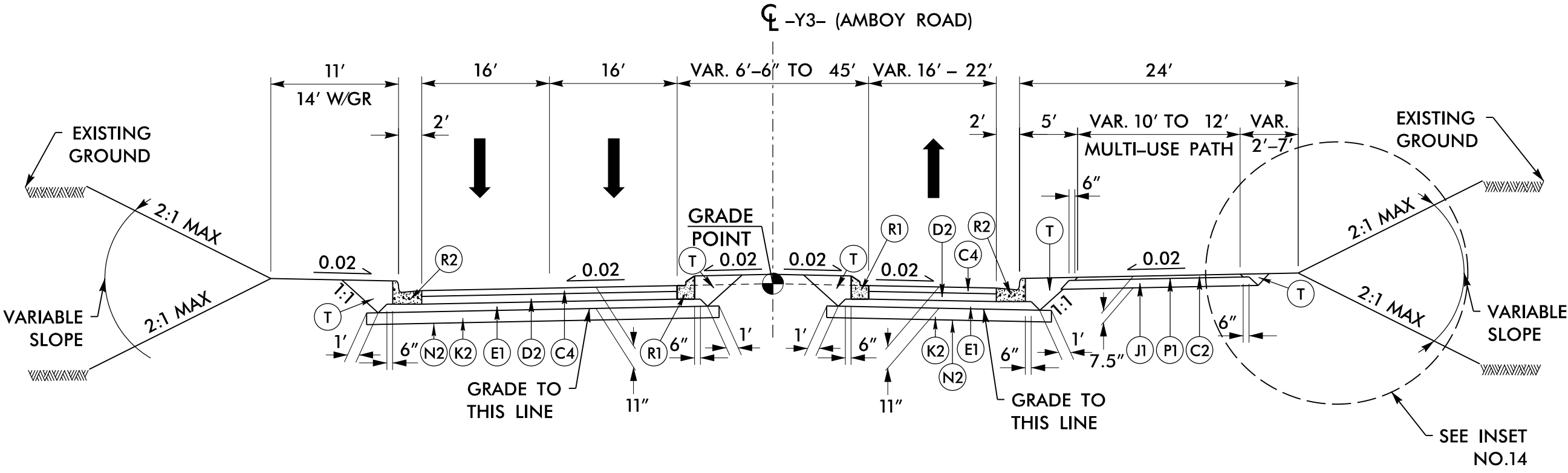
NC FIRM LICENSE No. F-0342
5438 Wade Park, Boulevard, Suite 200
Raleigh, NC 27607
(919) 854-6000 • (919) 854-6259 (FAX)

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

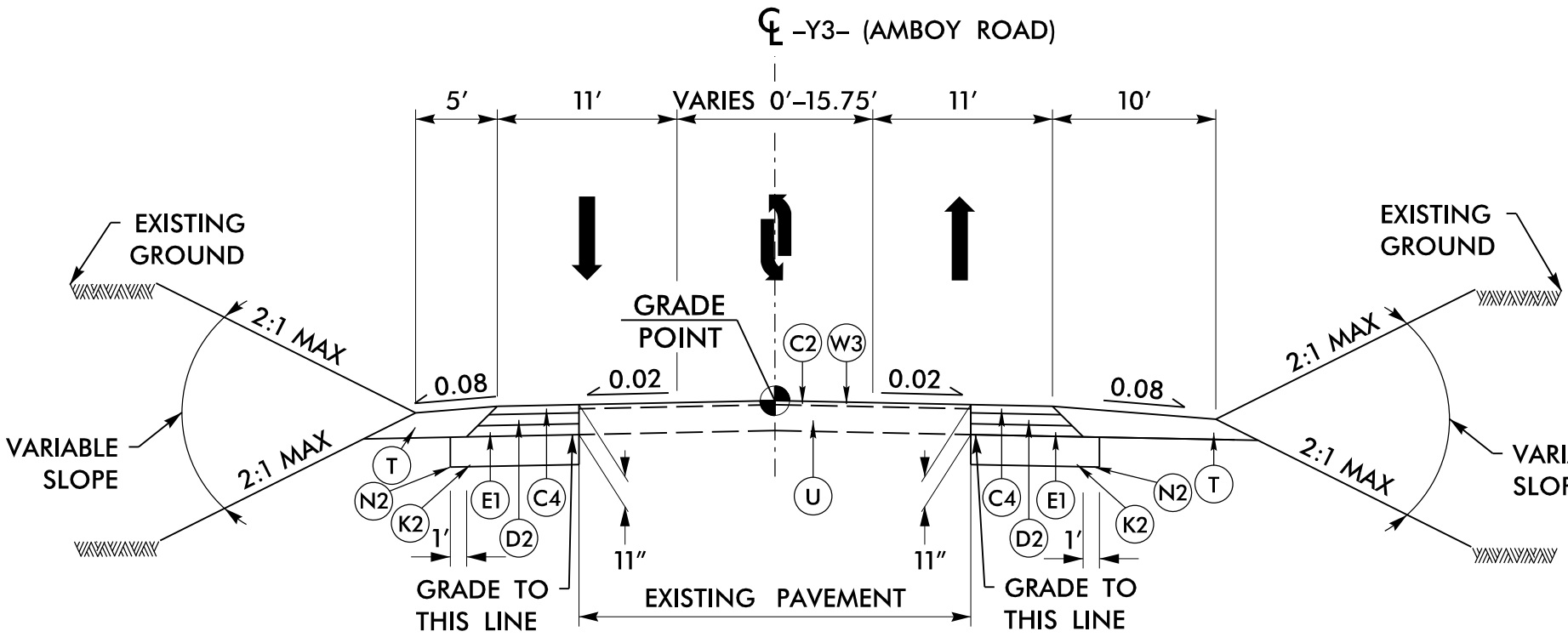
NOTE: PAVEMENT EDGE SLOPES
ARE 1:1 UNLESS SHOWN OTHERWISE.

PAVEMENT SCHEDULE

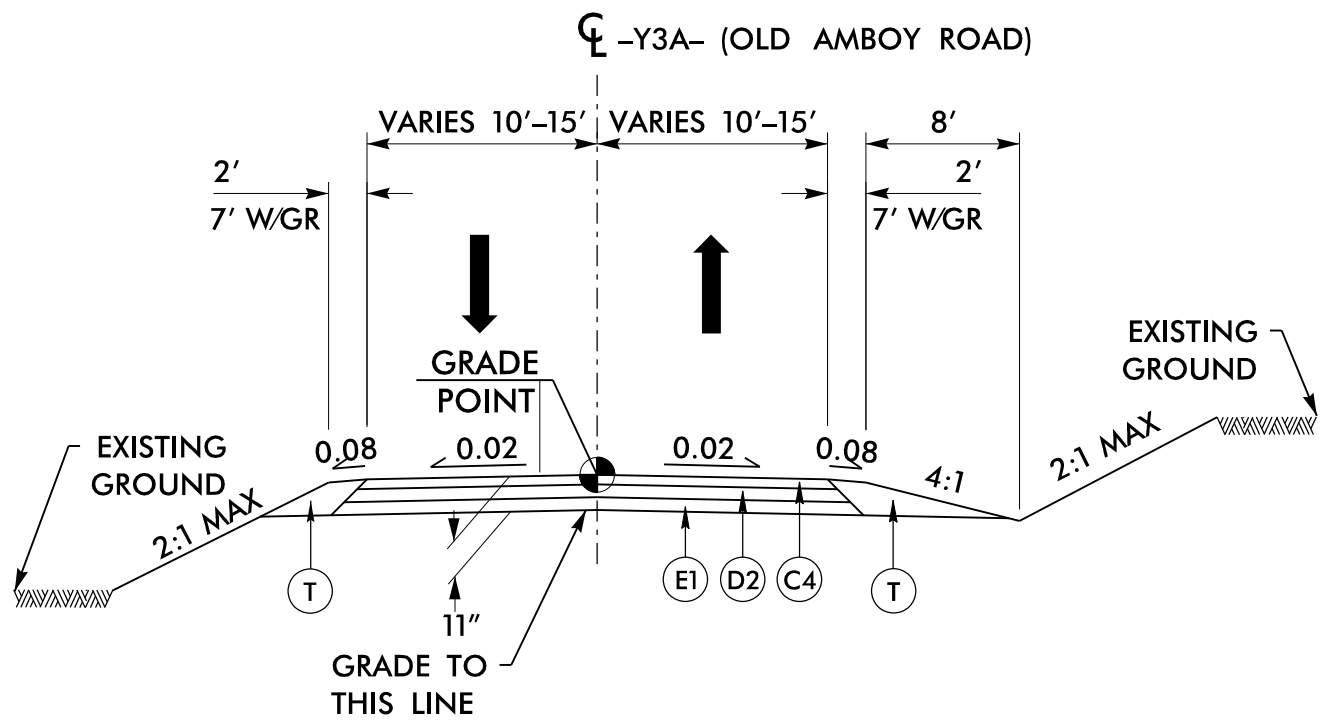
A1	11" PCC PAVE.
A2	12" CONC TRUCK APRON
C1	1 1/4" S9.5B
C2	1 1/2" S9.5B
C3	2" S9.5B
C4	3" S9.5B
C5	VAR. S9.5B
C6	2" S9.5C
C7	3" S9.5C
C8	VAR. S9.5C
D1	2 1/2" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	4" B25.0C
E2	5 1/4" B25.0C
E3	6" B25.0C
E4	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K2	SGS, CLASS IV
N1	NONWOVEN GEO.
N2	GEO. SUB. STAB.
P1	PRIME COAT
R1	1'-6" C&G
R2	2'-6" C&G
R3	8"x18" CURB
R4	5" MONO ISLAND
R5	EXPRESS. GUTTER
R6	SH. BERM GUTTER
R7	SF SS BAR.
R8	PRECAST BARRIER
R9	BARRIER RAIL
R10	SS CONC. BAR.
R11	3" CONC. ISL. CVR
R12	3" ROLLED CURB
S	4" CONC. SW.
T	EARTH MATERIAL
W1	WEDGING DET.#1
W2	WEDGING DET.#2
W3	WEDGING DET.#3
U	EXIST. PVMT.
V1	RUMBLE STRIPS
V2	INC MILLING



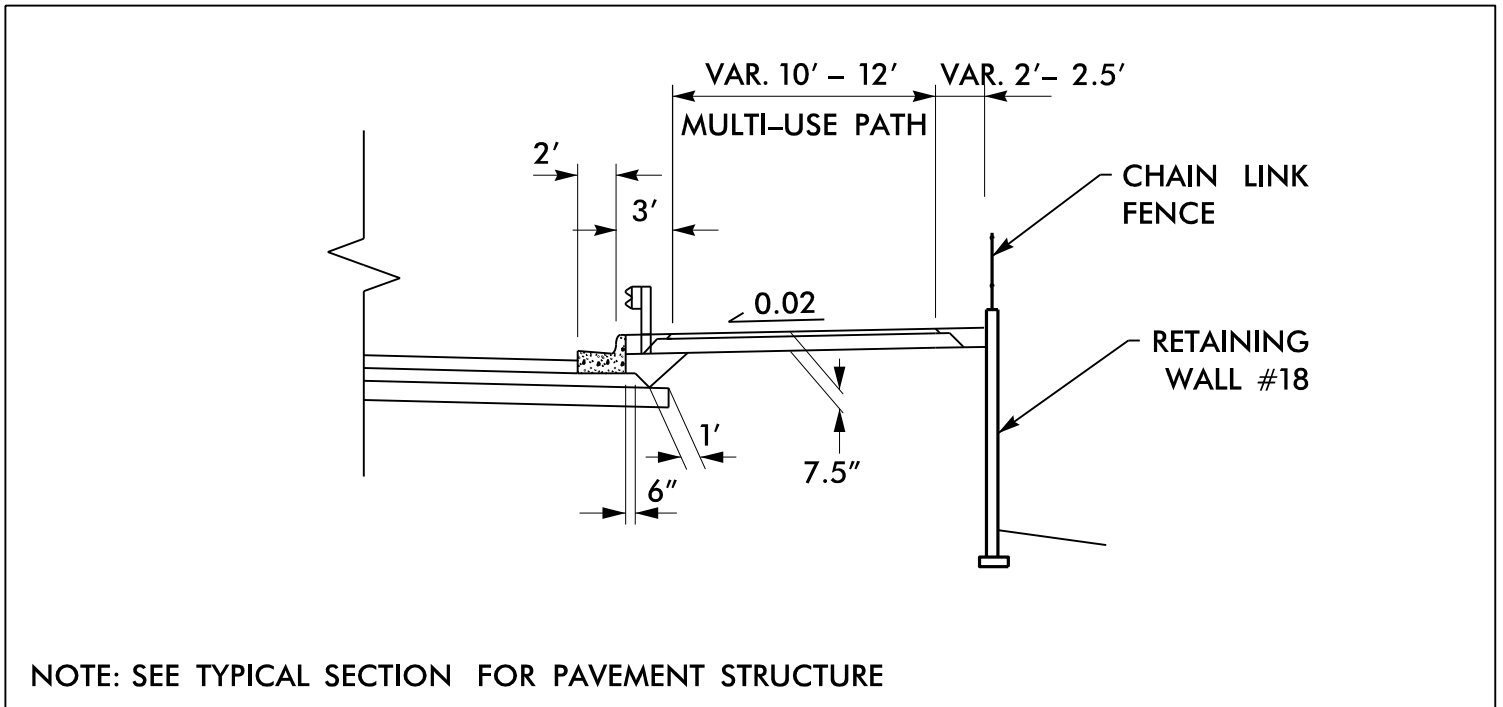
TYPICAL SECTION NO. 18A
-Y3- STA. 17+81.99 TO 19+50.00



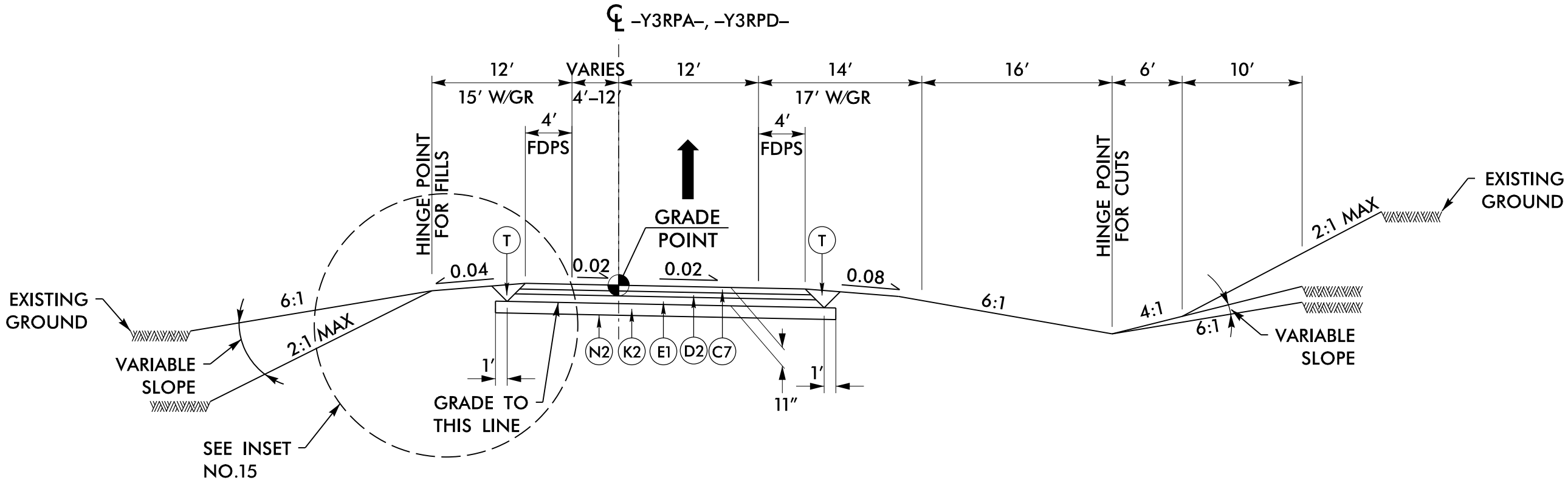
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-Y3- STA. 29+35.45 TO 31+50.00



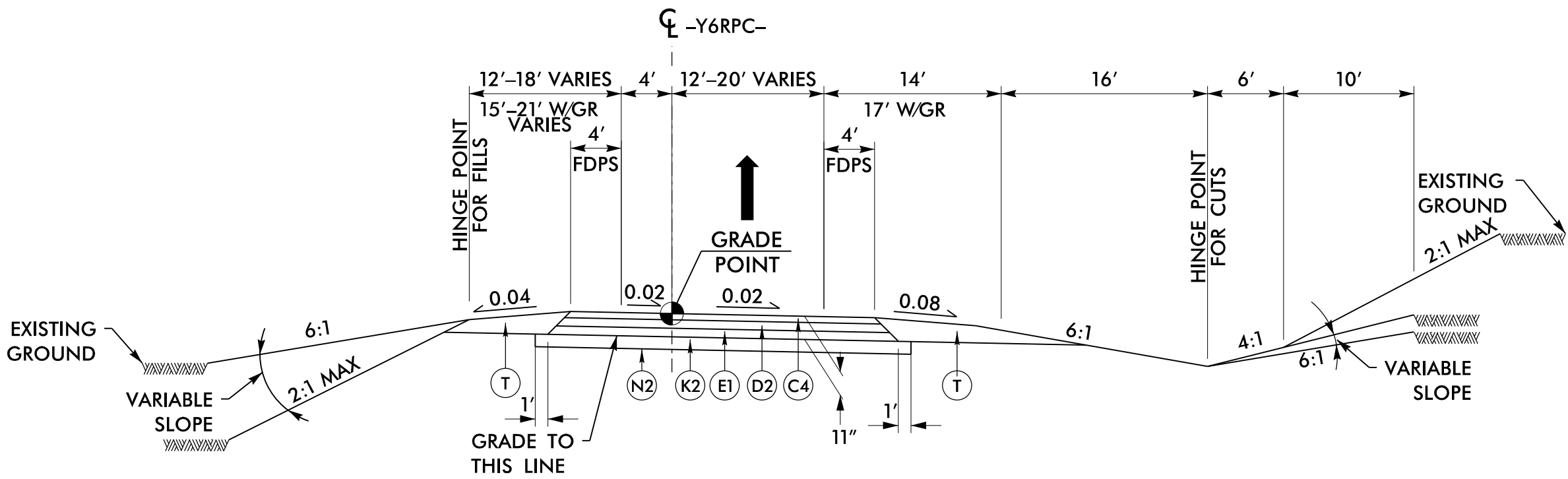
TYPICAL SECTION NO. 20
-Y3A- STA. 11+00.00 TO 15+42.93



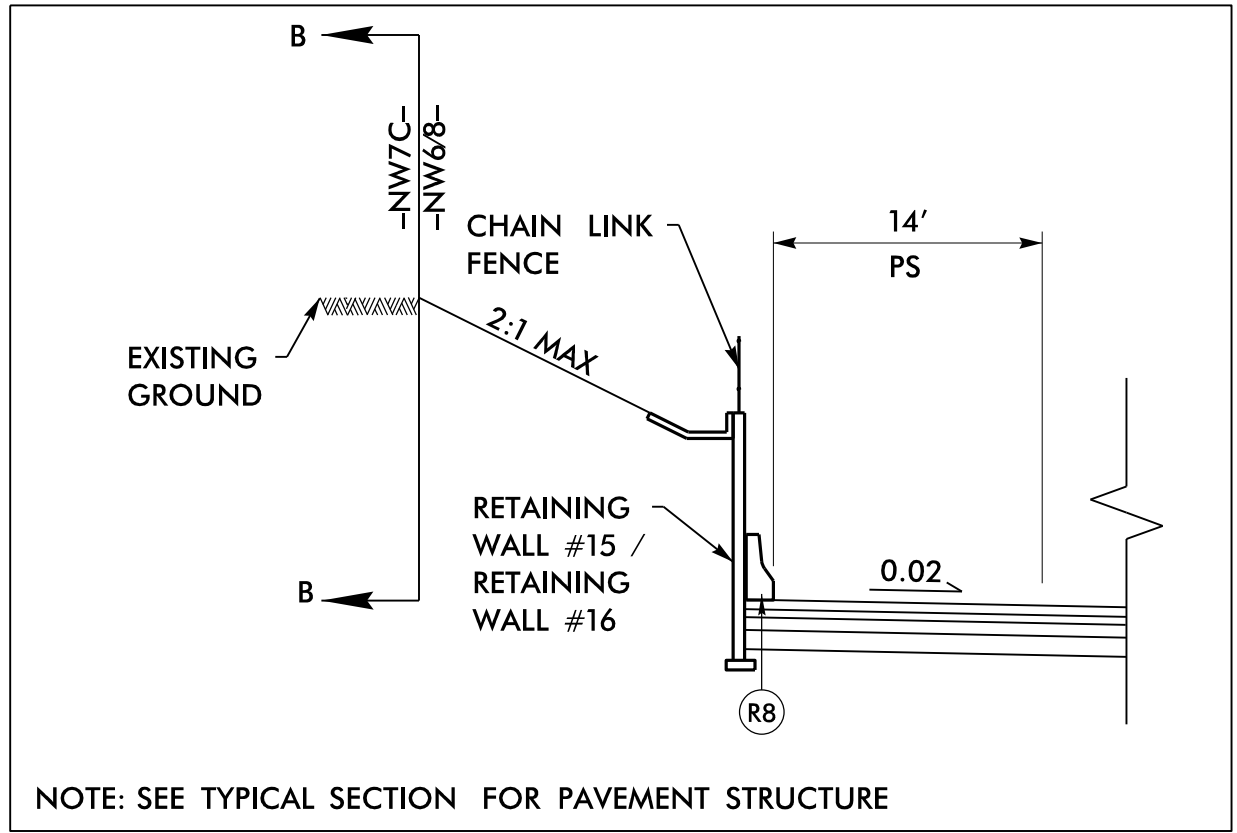
INSET NO. 14
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 18 AND 18A
-Y3- STA. 17+81.99 TO 23+01.67



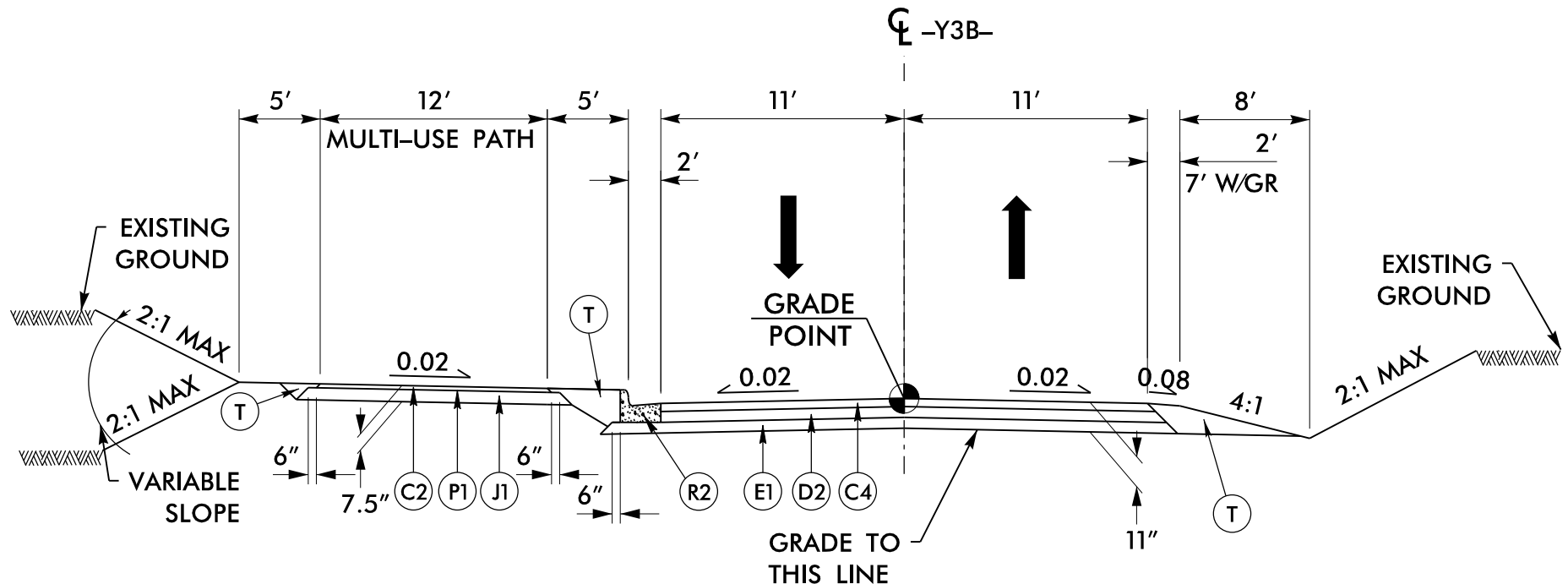
TYPICAL SECTION NO. 21
-Y3RPA- STA. 14+91.62 TO 22+30.00
-Y3RPD- STA. 14+83.26 TO 22+25.75 (MIRROR IMAGE)



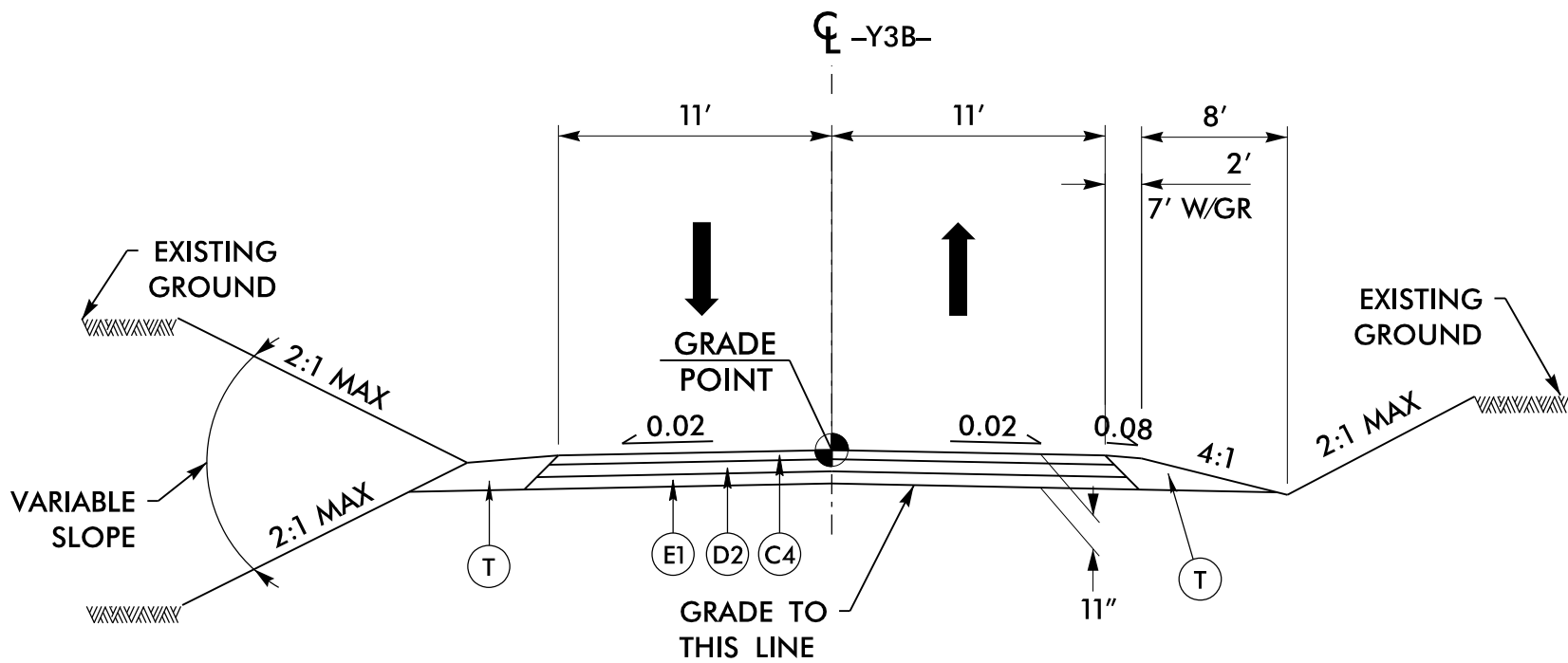
TYPICAL SECTION NO. 23
-Y6RPC- STA. 10+00.00 TO 20+55.00



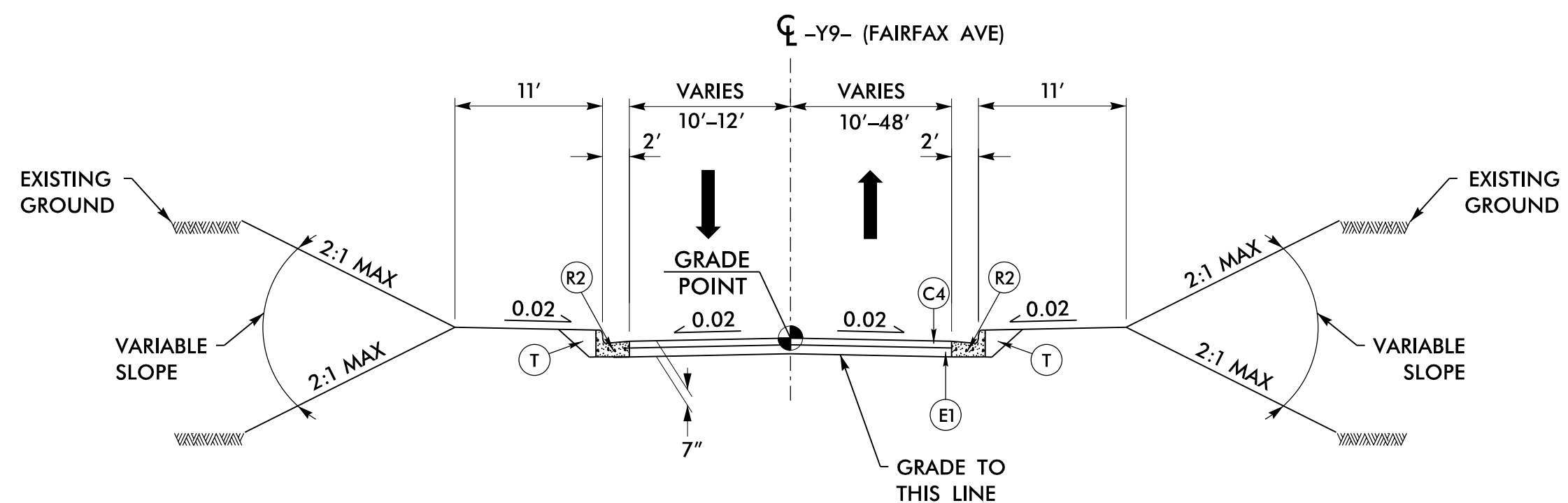
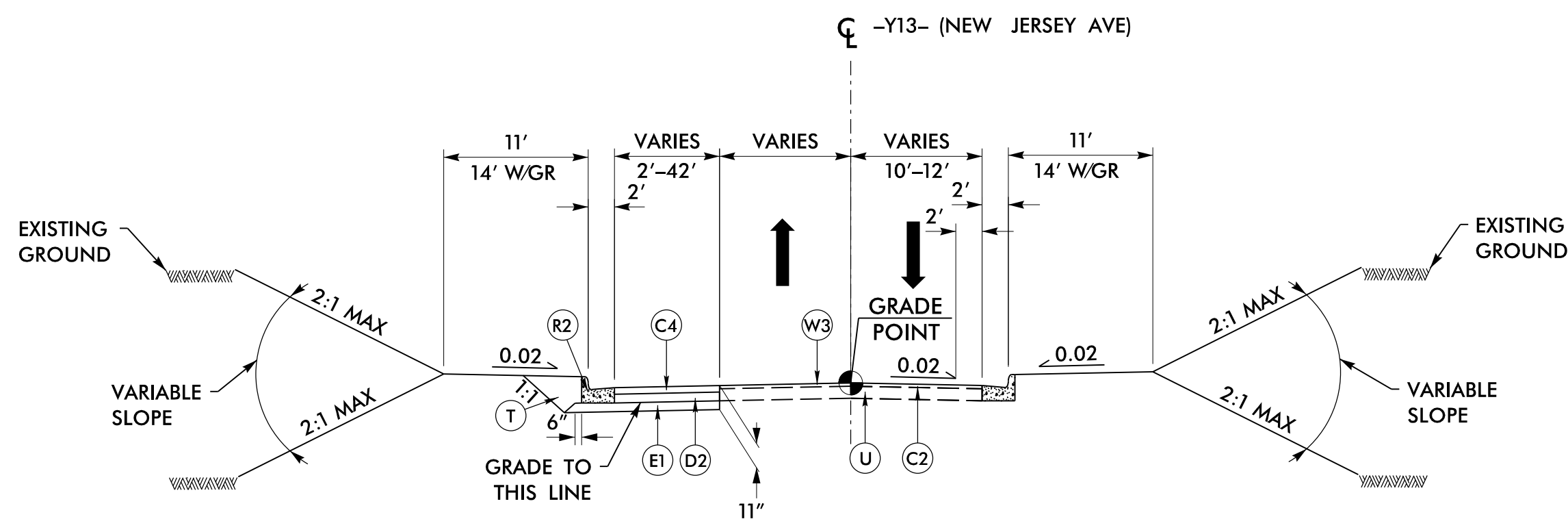
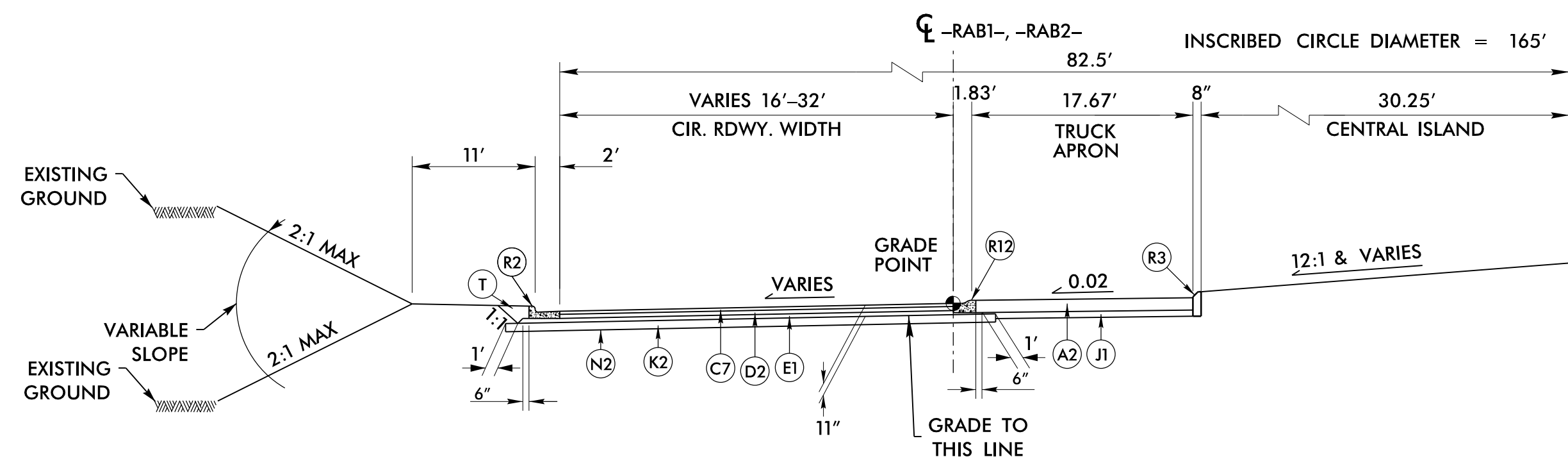
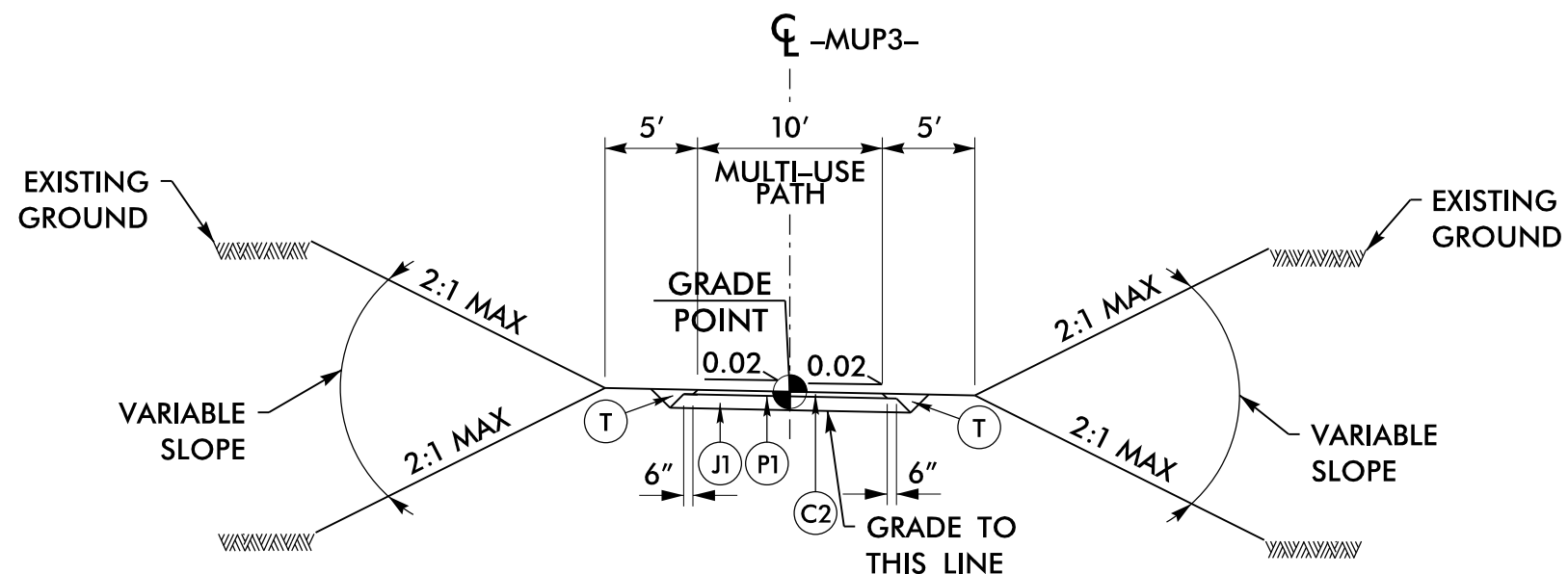
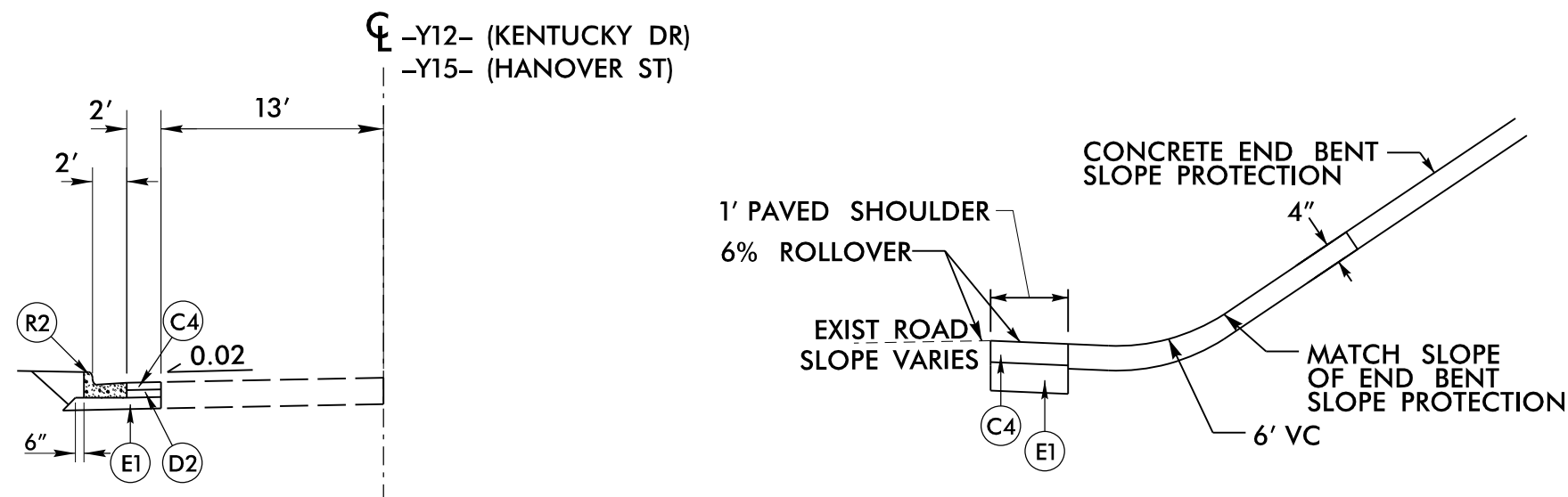
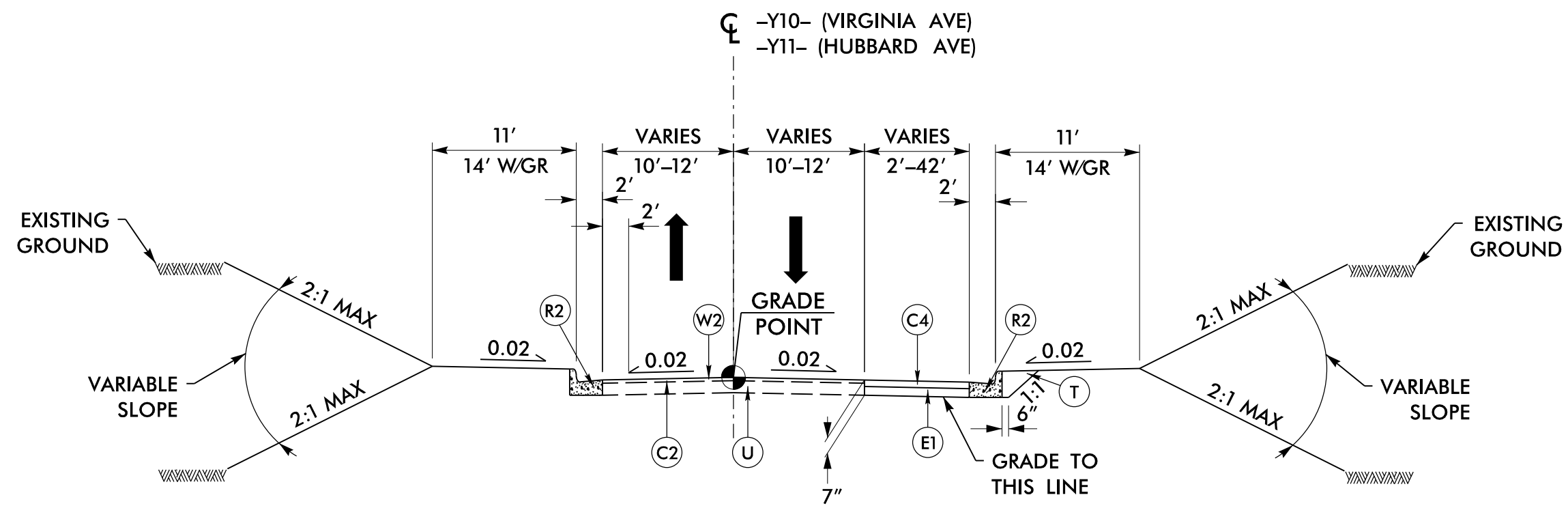
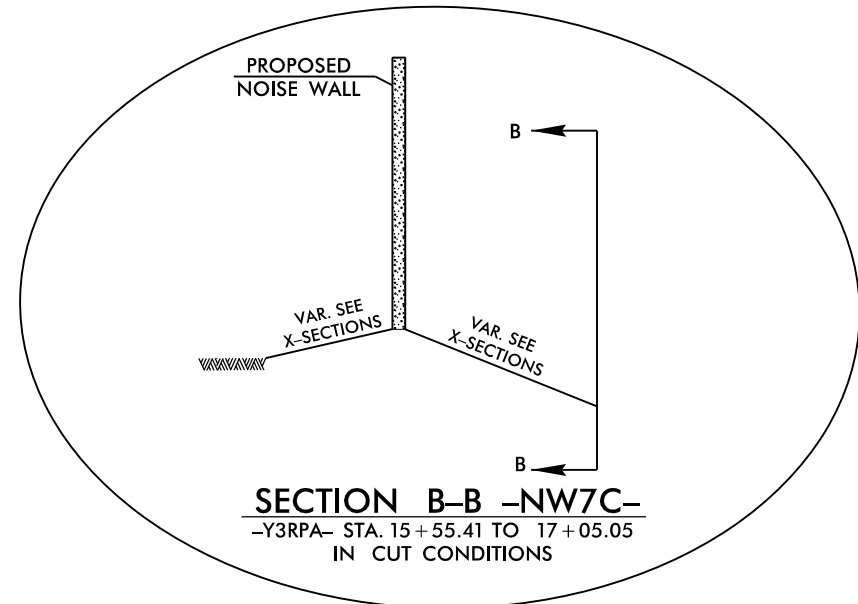
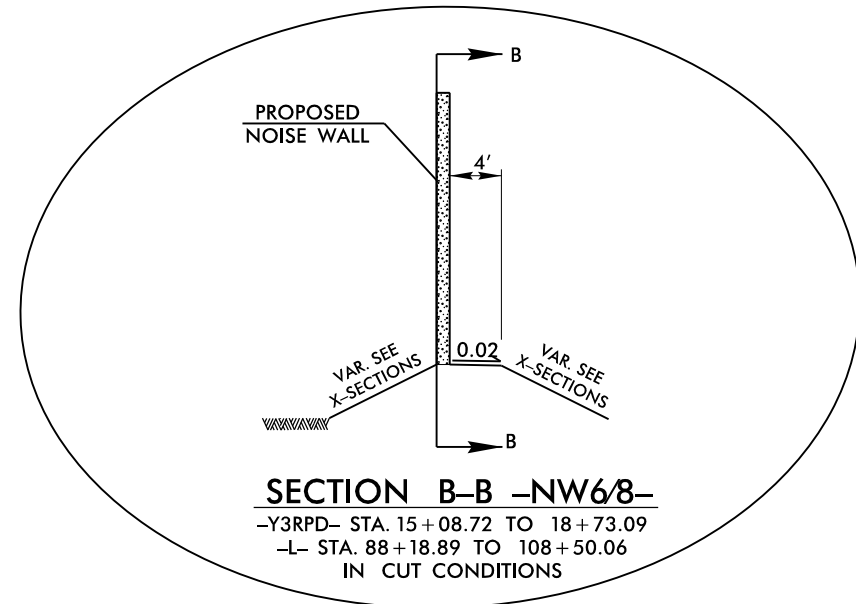
INSET NO. 15
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 21
-Y3RPA- STA. 14+91.62 TO 22+30.00 (MIRROR IMAGE)
-Y3RPD- STA. 14+83.26 TO 22+22.75



TYPICAL SECTION NO. 22
-Y3B- STA. 10+65.45 TO 11+82.21



TYPICAL SECTION NO. 22A
-Y3B- STA. 10+46.05 TO 10+65.45

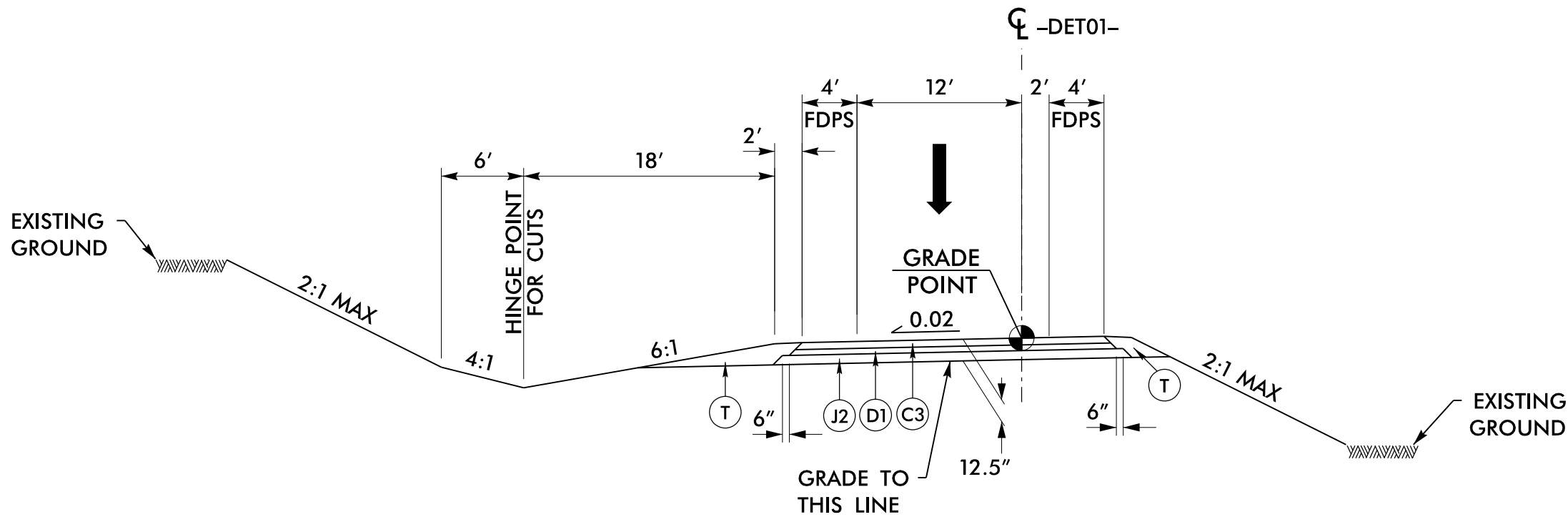


PROJECT REFERENCE NO.	SHEET NO.
1-25/3AC	2A-II
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
8/10/2026	8/10/2026
Prepared in the Office of:	NC FIRM LICENSE NO# F-0342 5438 Wades Road, Raleigh, North Carolina 27609 (919) 854-6200, (919) 854-6201 (919) 854-6202, (919) 854-6203 FAX#1
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

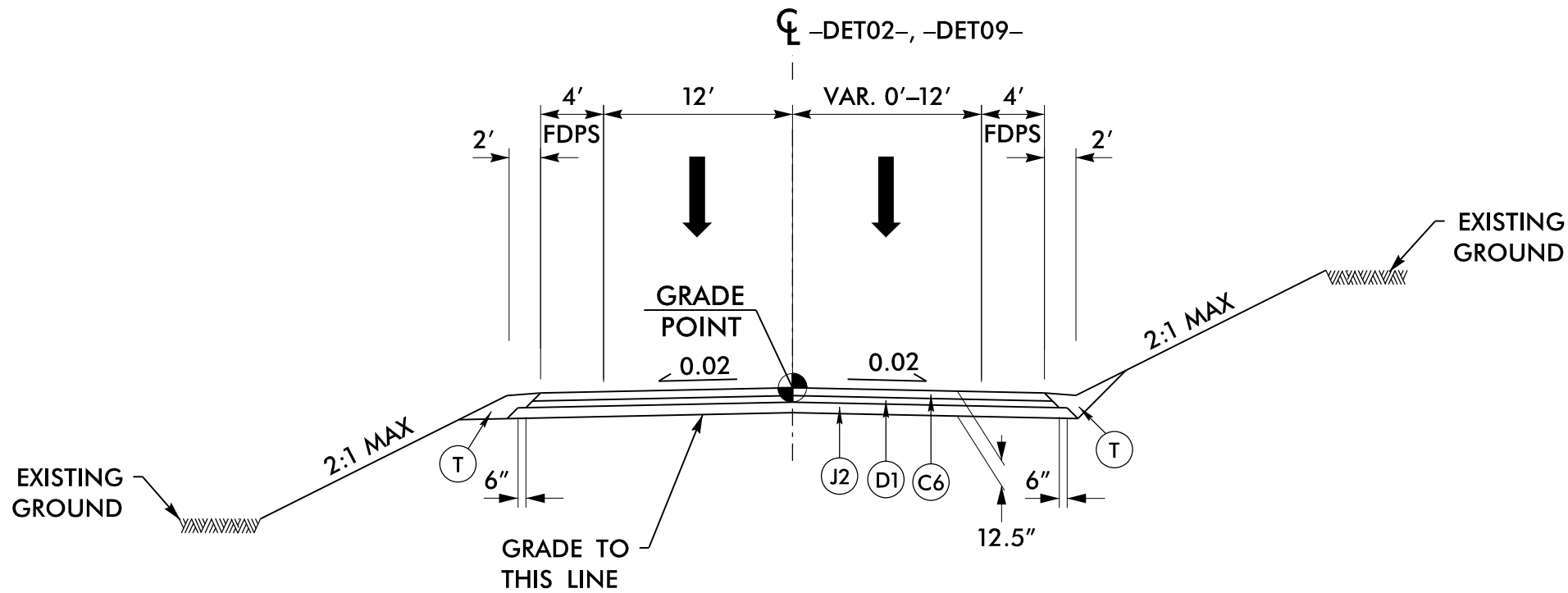
		PAVEMENT SCHEDULE	
		A1	11" PCC PAVE.
EXISTING GROUND	A2	12" CONC TRUCK APRON	
	C1	1¼" S9.5B	
	C2	1½" S9.5B	
	C3	2" S9.5B	
	C4	3" S9.5B	
	C5	VAR. S9.5B	
	C6	2" S9.5C	
	C7	3" S9.5C	
BLE	C8	VAR. S9.5C	
	D1	2 ½" I19.0C	
	D2	4" I19.0C	
	D3	VAR. I19.0C	
	E1	4" B25.0C	
	E2	5 ¼" B25.0C	
	E3	6" B25.0C	
	E4	VAR. B25.0C	
DIAMETER = 165'	J1	6" ABC	
	J2	8" ABC	
	J3	10" ABC	
	K2	SGS, CLASS IV	
	N1	NONWOVEN GEO.	
	N2	GEO. SUB. STAB.	
	P1	PRIME COAT	
	R1	1'-6" C&G	
RIES	R2	2'-6" C&G	
	R3	8"x18" CURB	
	R4	5" MONO ISLAND	
	R5	EXPRESS. GUTTER	
	R6	SH. BERM GUTTER	
	R7	SF SS BAR.	
	R8	PRECAST BARRIER	
	R9	BARRIER RAIL	
EXISTING GROUND	R10	SS CONC. BAR.	
	R11	3" CONC. ISL. CVR	
	R12	3" ROLLED CURB	
	S	4" CONC. SW.	
	T	EARTH MATERIAL	
	VARIABLE SLOPE	W1	WEDGING DET.#1
		W2	WEDGING DET.#2
		W3	WEDGING DET.#3
//	U	EXIST. PVMT.	
	V1	RUMBLE STRIPS	
	V2	INC MILLING	

6/2/2026

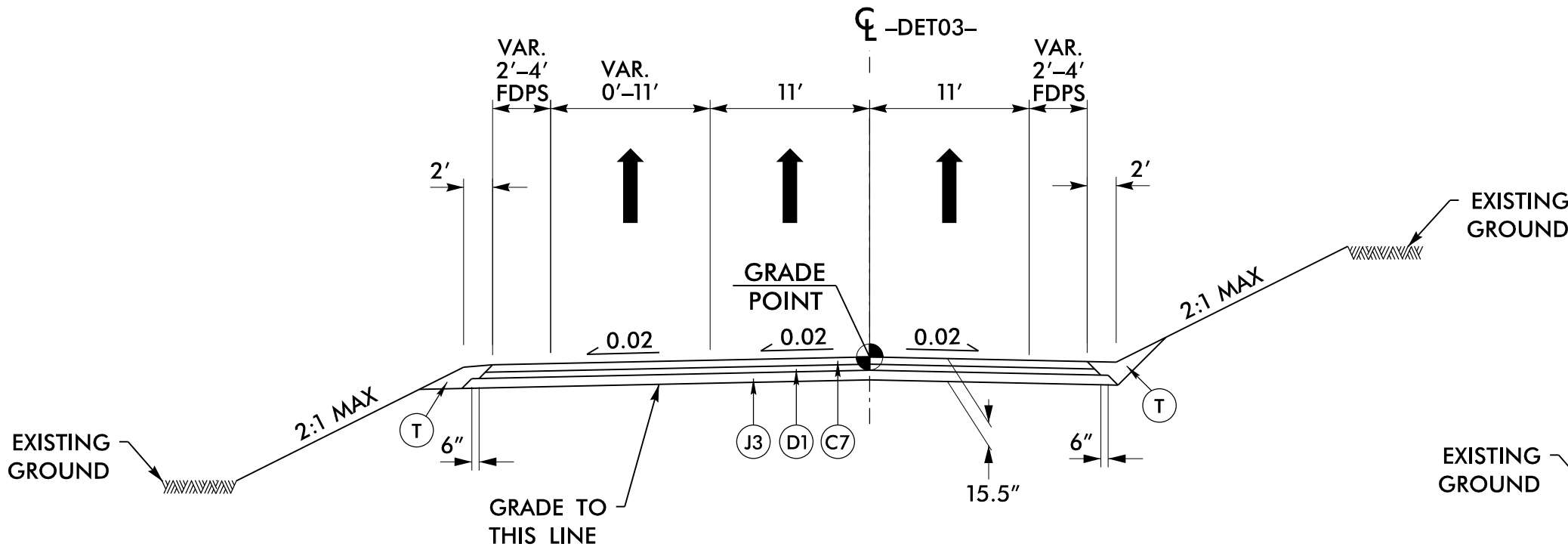
6/10/2026
12:36 PM
du_tup.dgn
Mohammed F. Al-Jabbar



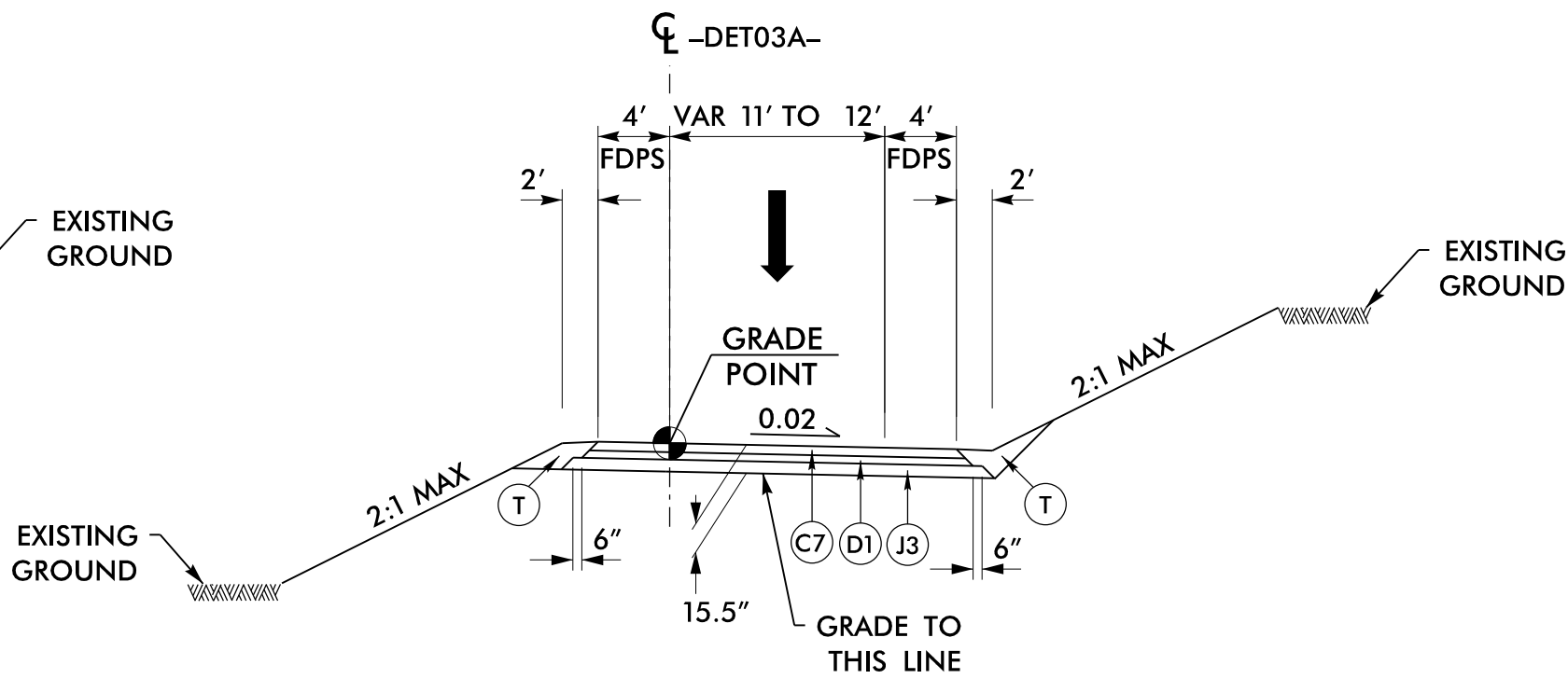
TYPICAL SECTION NO. 32
-DET01- STA. 10+00.00 TO 18+89.47



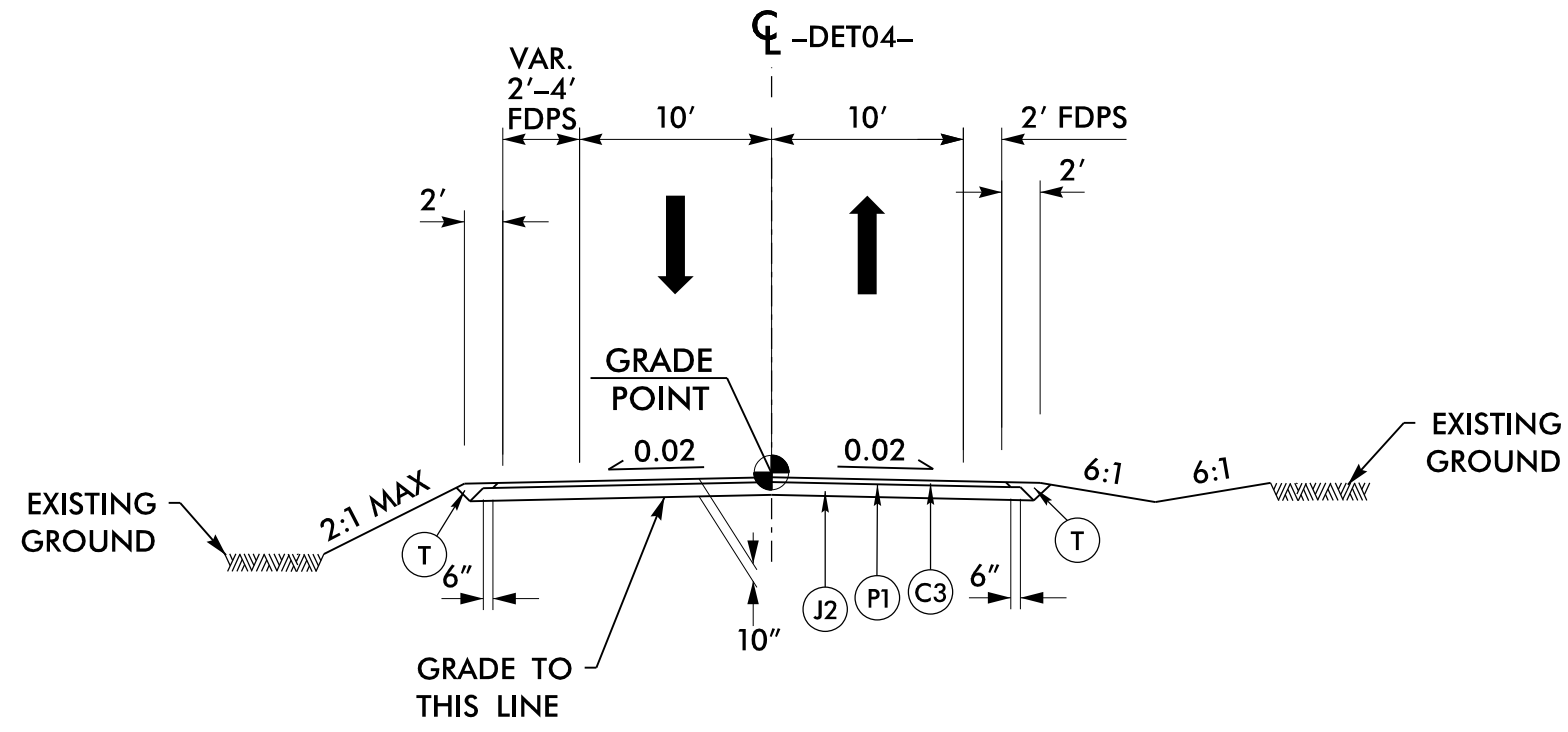
TYPICAL SECTION NO. 33
-DET02- STA. 10+00.00 TO 22+12.12
-DET09- STA. 10+00.00 TO 17+33.50



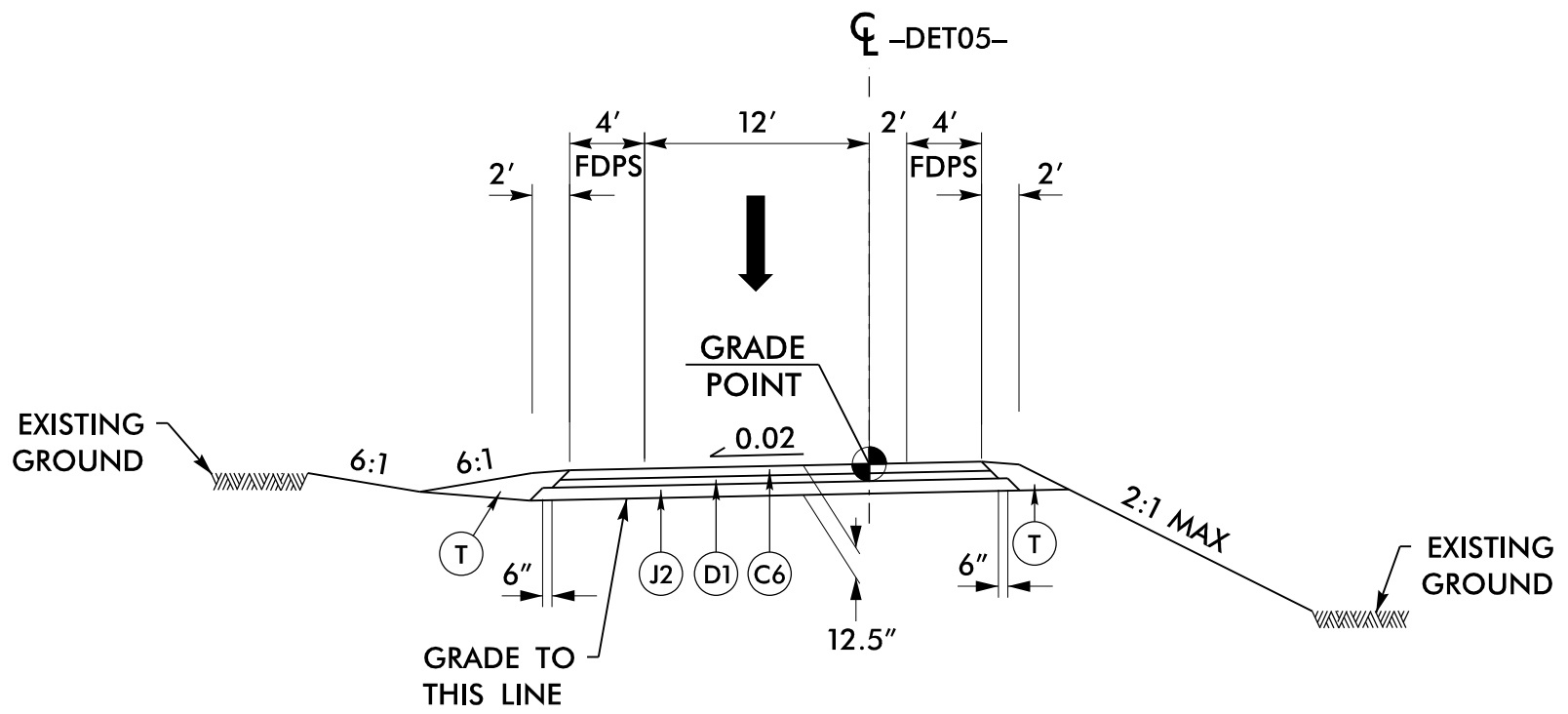
TYPICAL SECTION NO. 34
-DET03- STA. 14+13.87 TO 19+83.19



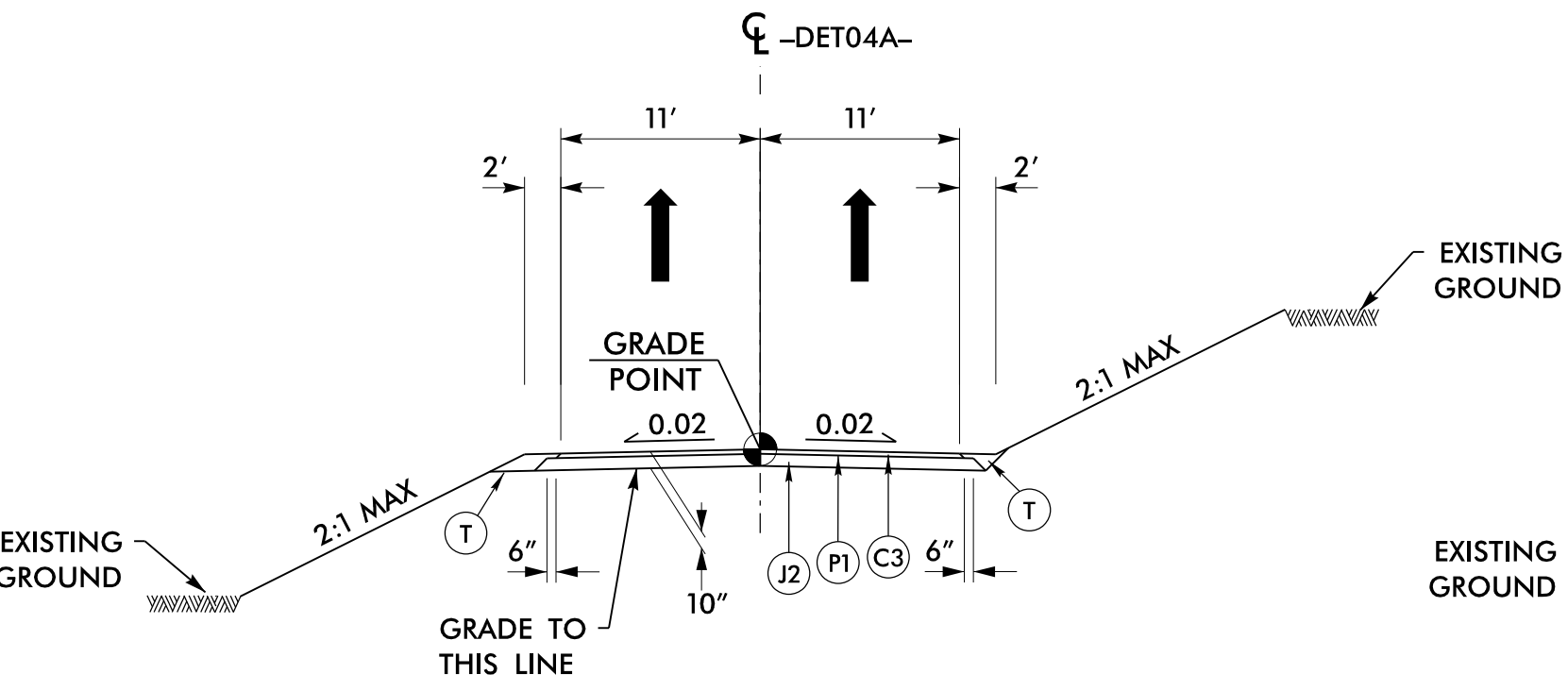
TYPICAL SECTION NO. 35
-DET03A- STA. 13+56.75 TO 18+37.09



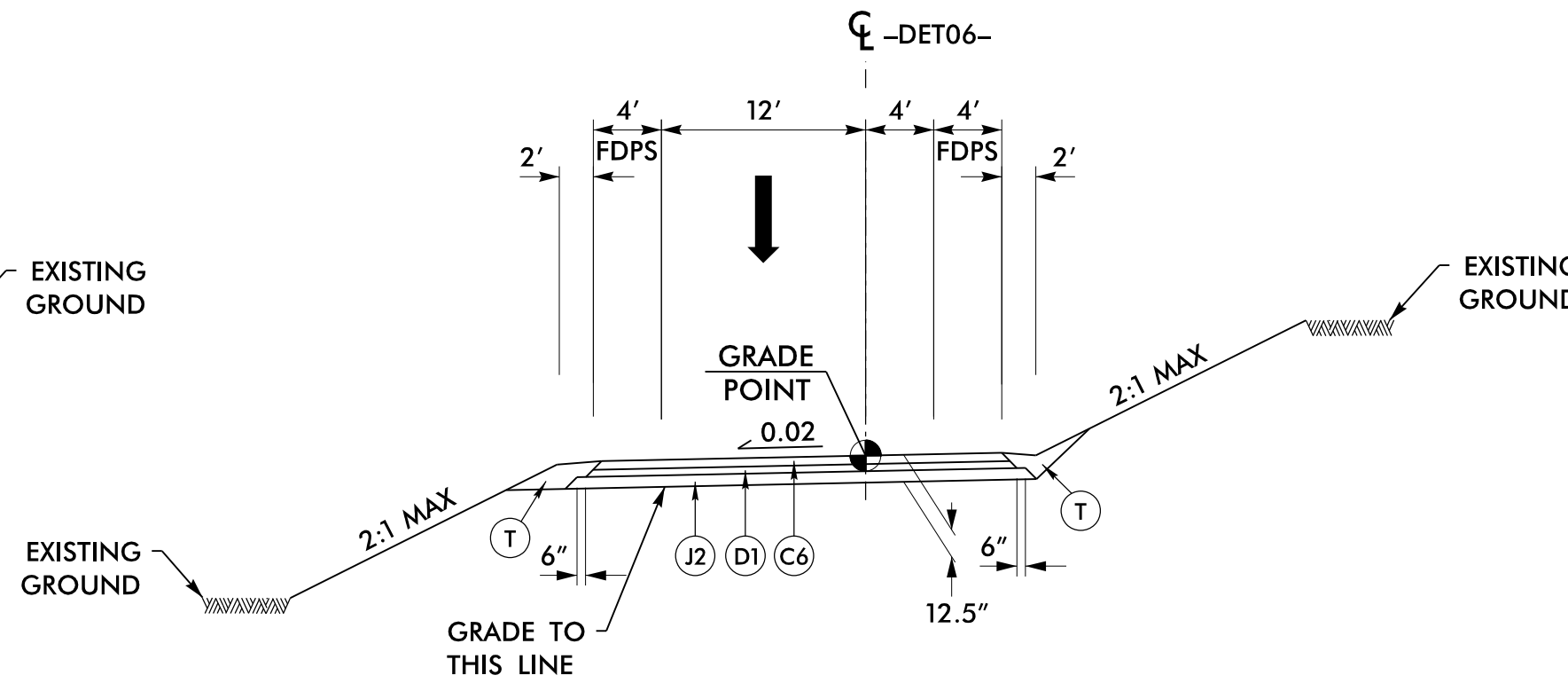
TYPICAL SECTION NO. 36
-DET04- STA. 11+51.63 TO 18+46.57



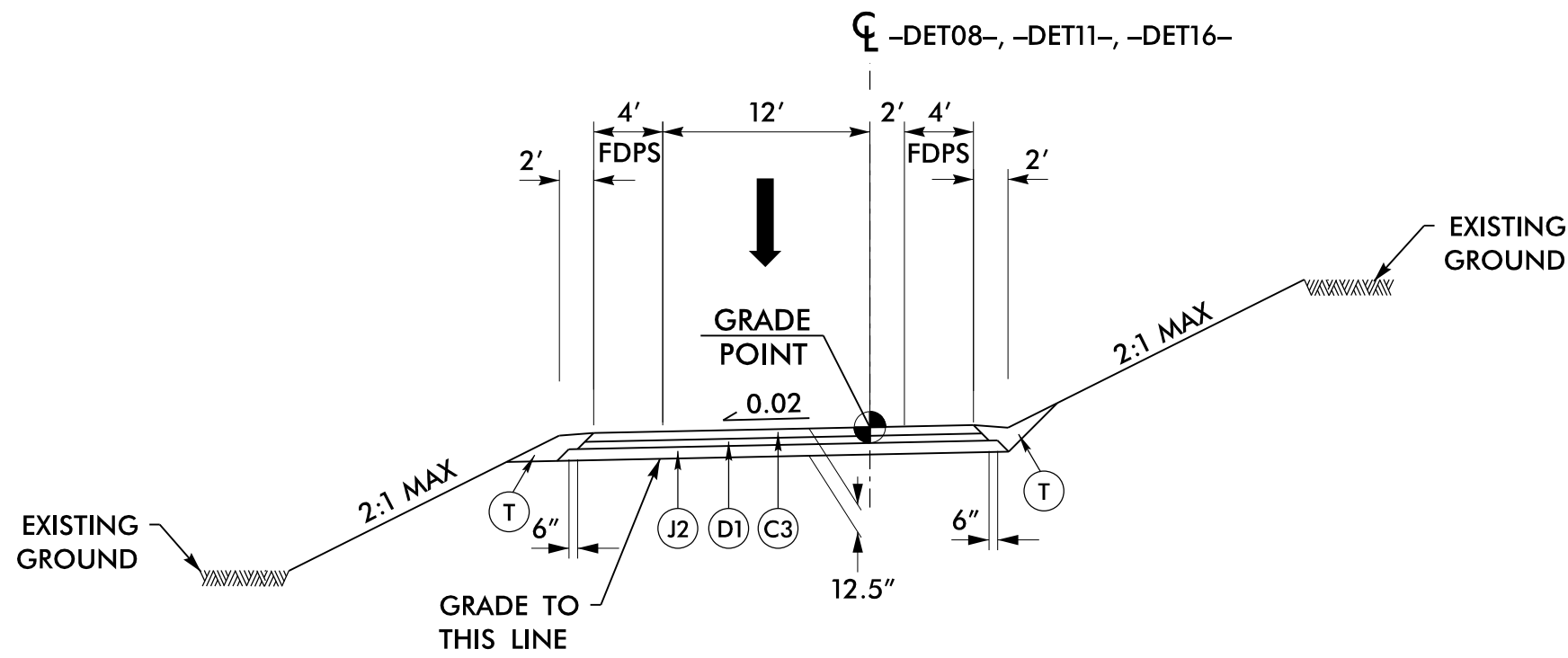
TYPICAL SECTION NO. 37
-DET05- STA. 10+00.00 TO 20+45.00



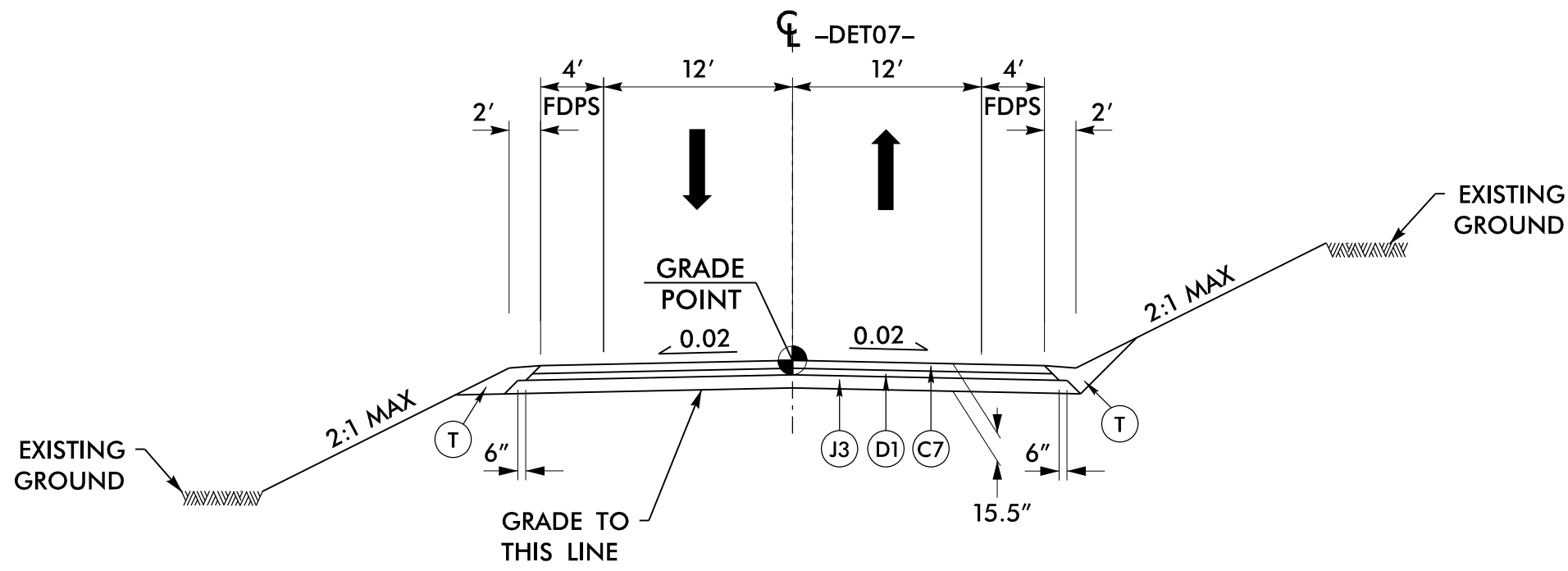
TYPICAL SECTION NO. 38
-DET04A- STA. 10+00.00 TO 11+53.74



TYPICAL SECTION NO. 39
-DET06- STA. 10+00.00 TO 21+14.14



TYPICAL SECTION NO. 40
-DET08- STA. 10+00.00 TO 22+00.70
-DET11- STA. 10+00.00 TO 21+59.78
-DET16- STA. 10+00.00 TO 15+78.45
* SURFACE COURSE ONLY

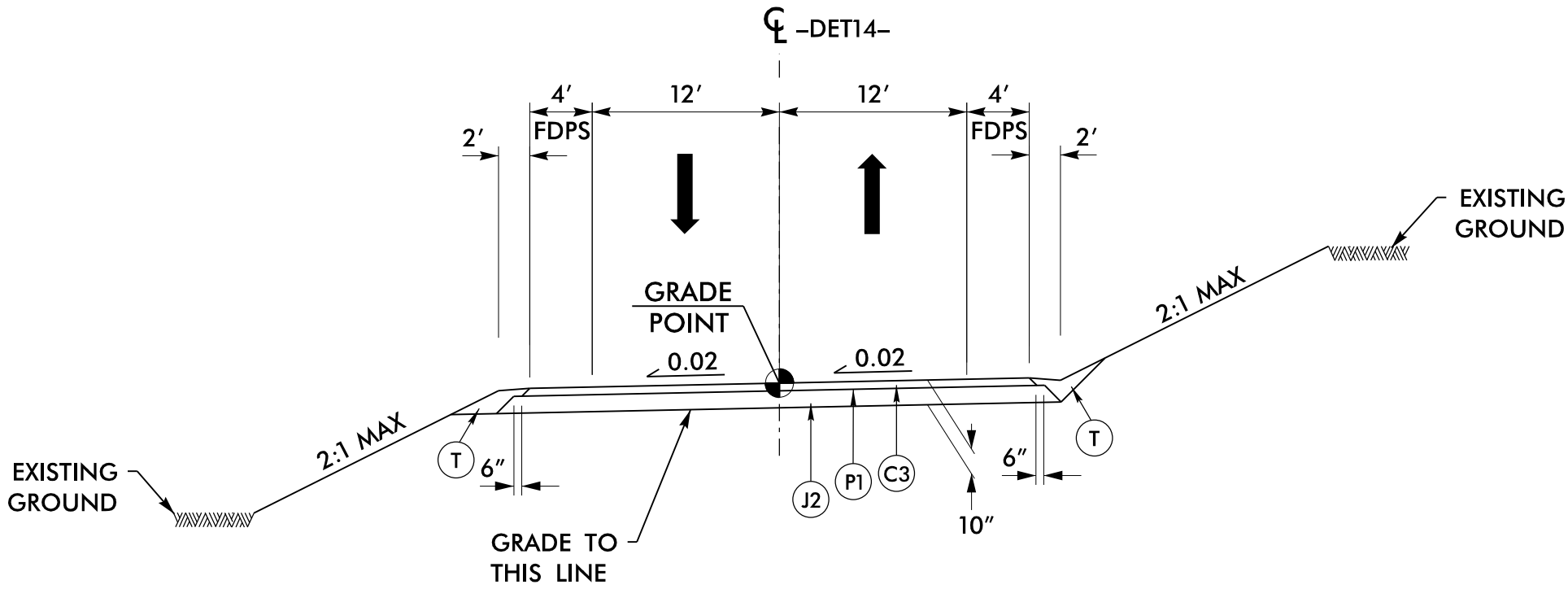


TYPICAL SECTION NO. 41
-DET07- STA. 10+00.00 TO 20+39.76

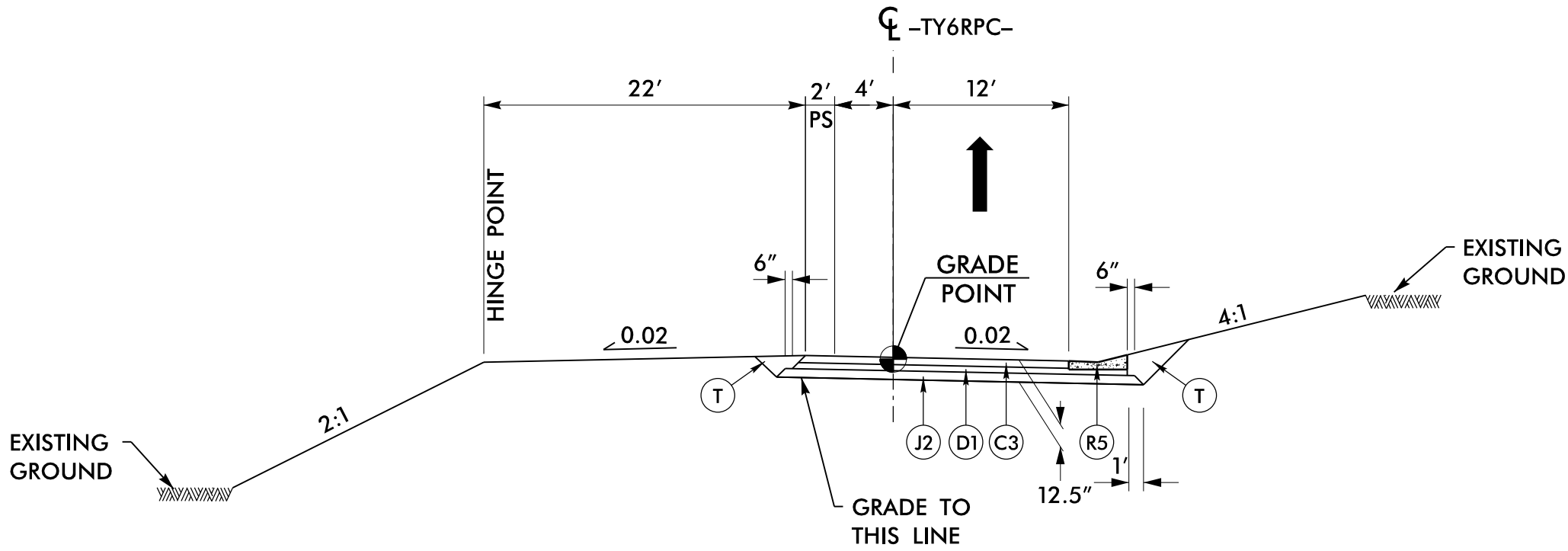
PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 2A-12	
ROADWAY DESIGN ENGINEER MOHAMMED F. AL-JABBAR SEAL 049634 NORTH CAROLINA PROFESSIONAL ENGINEER 8/10/2026		PAVEMENT DESIGN ENGINEER MOHAMMED F. AL-JABBAR SEAL 024964 NORTH CAROLINA PROFESSIONAL ENGINEER 8/10/2026	
Prepared in the Office of: AECOM NC FIRM LICENSE No: F-0342 5438 Wade Park, Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6000 / (919) 854-6259 (FAX)			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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

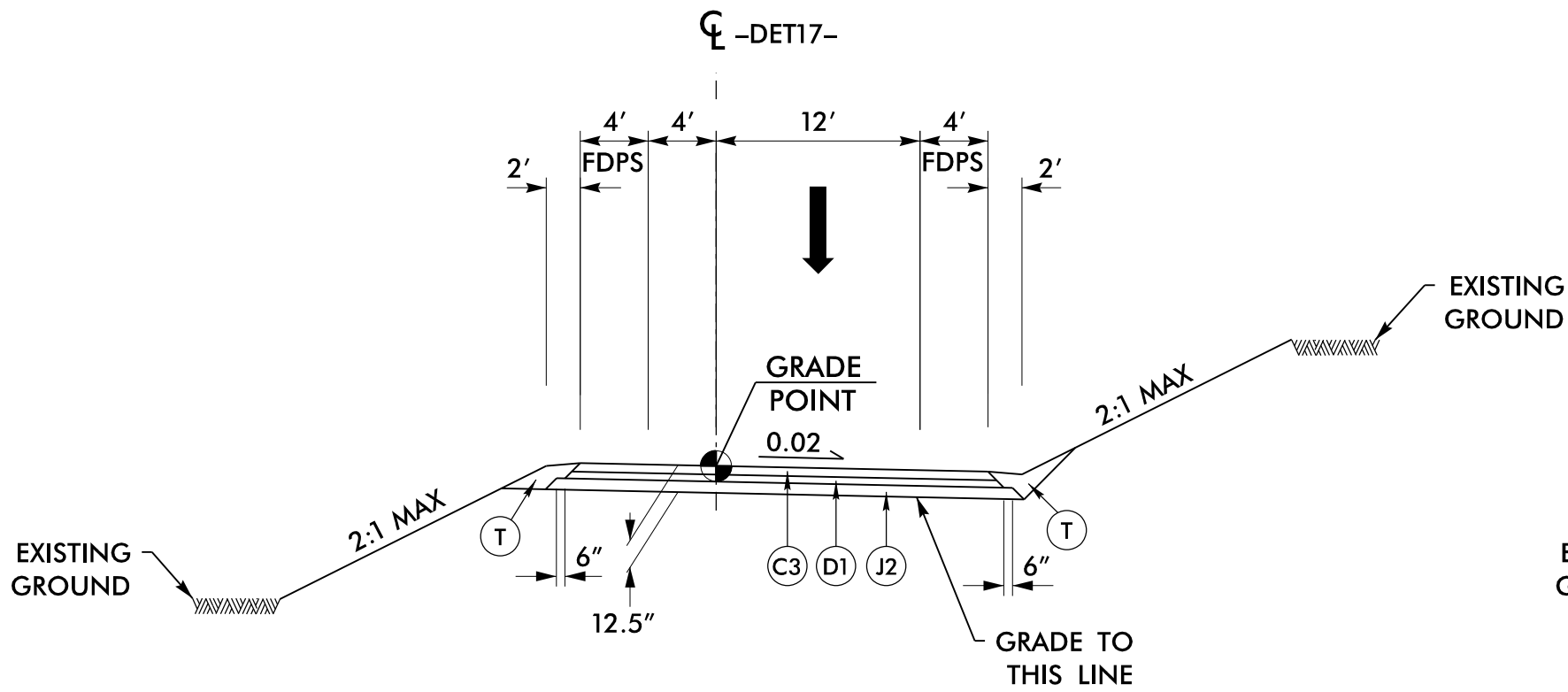
PAVEMENT SCHEDULE		
A1	11" PCC PAVE.	
A2	12" CONC TRUCK APRON	
C1	1 1/4" S9.5B	
C2	1 1/2" S9.5B	
C3	2" S9.5B	
C4	3" S9.5B	
C5	VAR. S9.5B	
C6	2" S9.5C	
C7	3" S9.5C	
C8	VAR. S9.5C	
D1	2 1/2" I19.0C	
D2	4" I19.0C	
D3	VAR. I19.0C	
E1	4" B25.0C	
E2	5 1/4" B25.0C	
E3	6" B25.0C	
E4	VAR. B25.0C	
J1	6" ABC	
J2	8" ABC	
J3	10" ABC	
K2	SGS, CLASS IV	
N1	NONWOVEN GEO.	
N2	GEO. SUB. STAB.	
P1	PRIME COAT	
R1	1'-6" C&G	
R2	2'-6" C&G	
R3	8"x18" CURB	
R4	5" MONO ISLAND	
R5	EXPRESS. GUTTER	
R6	SH. BERM GUTTER	
R7	SF SS BAR.	
R8	PRECAST BARRIER	
R9	BARRIER RAIL	
R10	SS CONC. BAR.	
R11	3" CONC. ISL. CVR	
R12	3" ROLLED CURB	
S	4" CONC. SW.	
T	EARTH MATERIAL	
W1	WEDGING DET.#1	U EXIST. PVMT.
W2	WEDGING DET.#2	V1 RUMBLE STRIPS
W3	WEDGING DET.#3	V2 INC MILLING



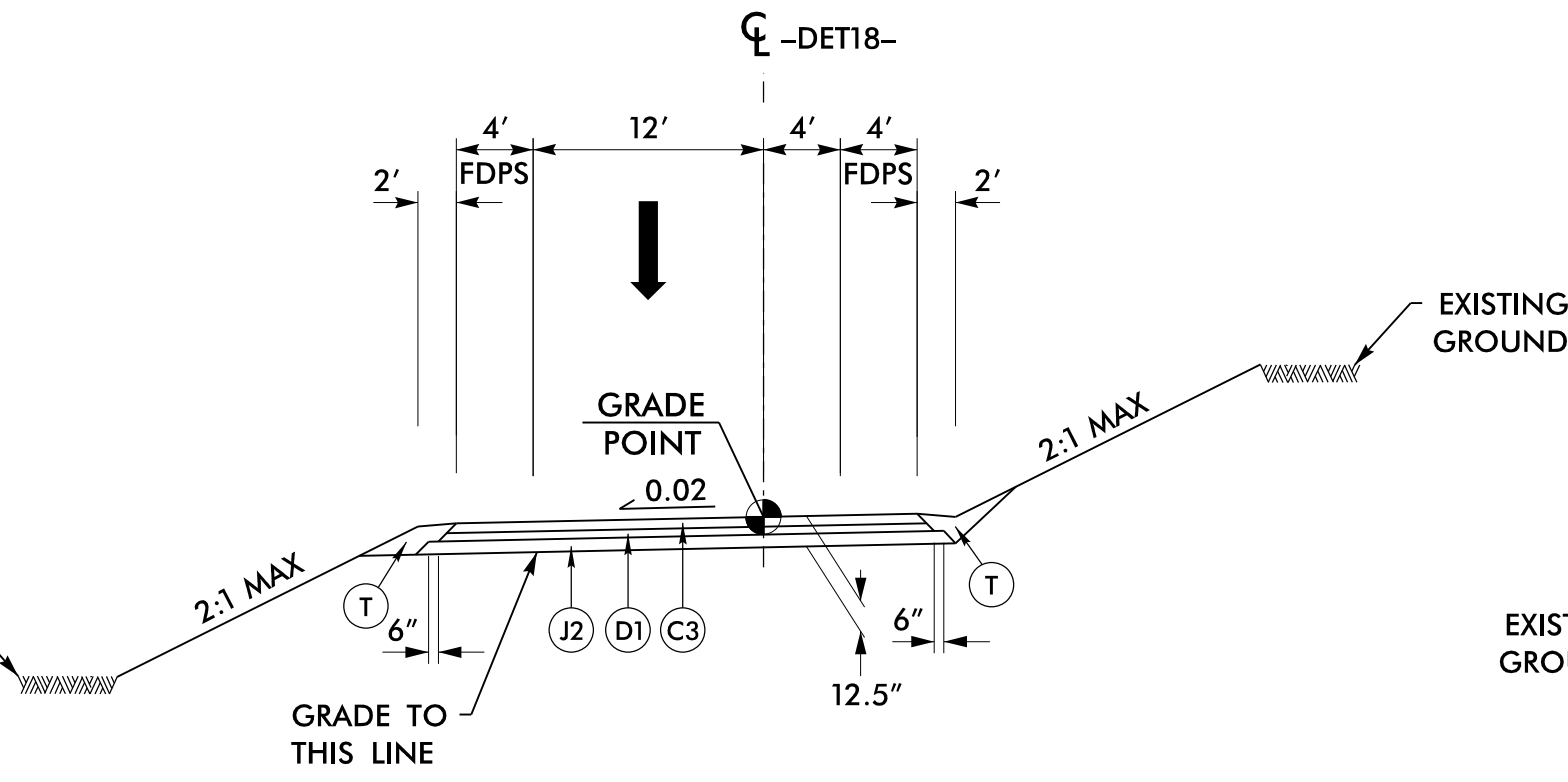
TYPICAL SECTION NO. 42
-DET14- STA. 11+41.21 TO 18+00.00



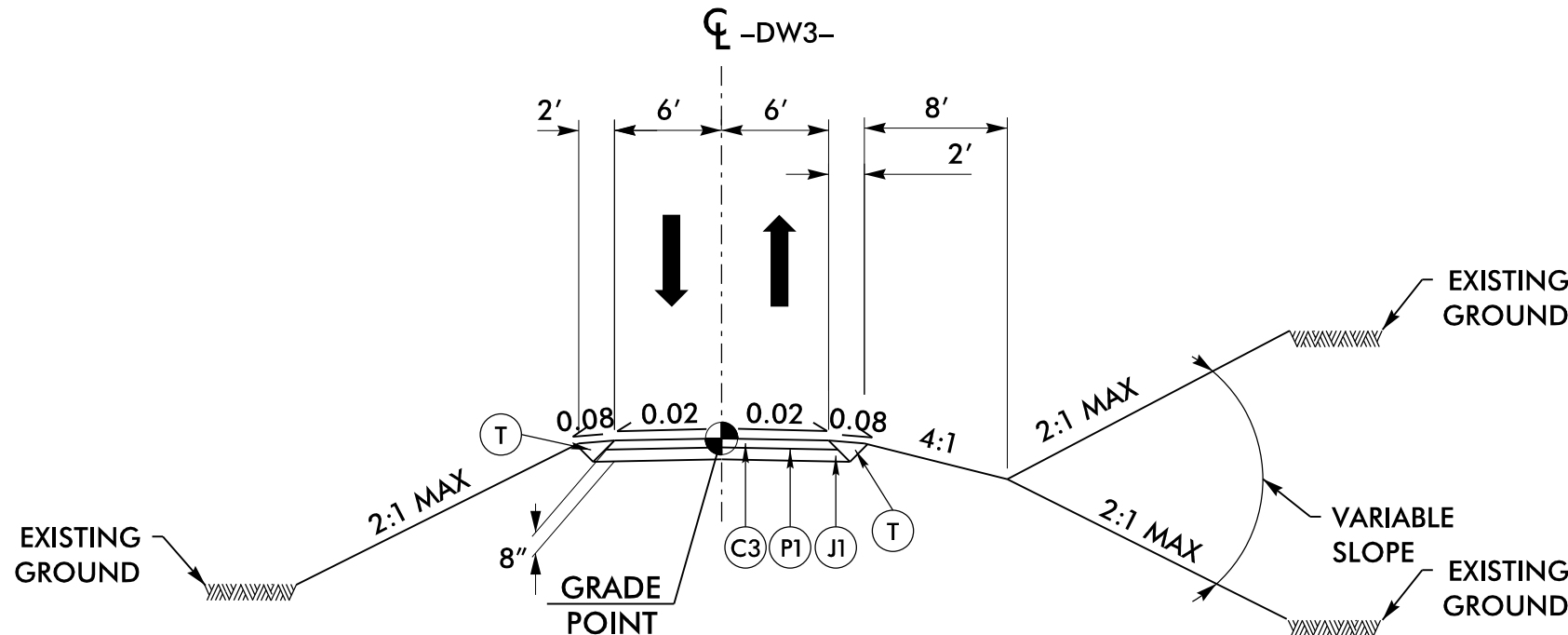
TYPICAL SECTION NO. 44
-TY6RPC- STA. 10+00.00 TO 14+53.65



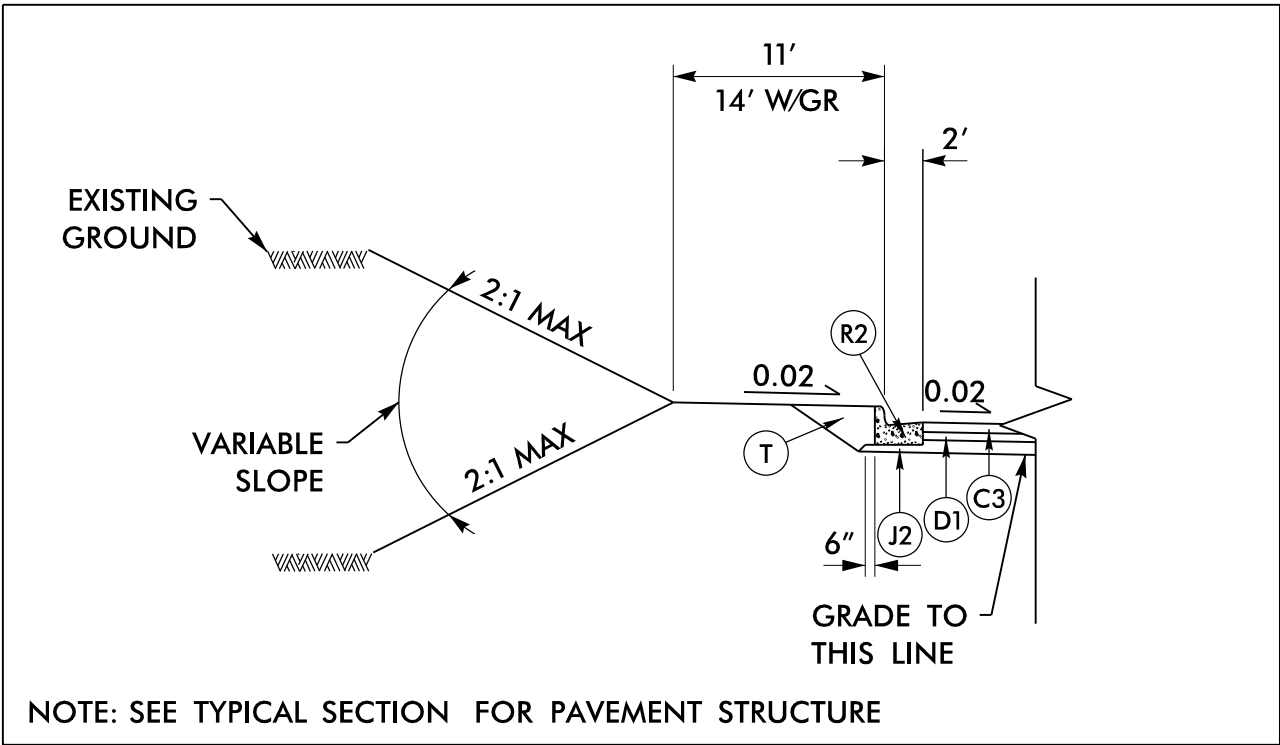
TYPICAL SECTION NO. 45
-DET17- STA. 11+80.69 TO 14+05.08



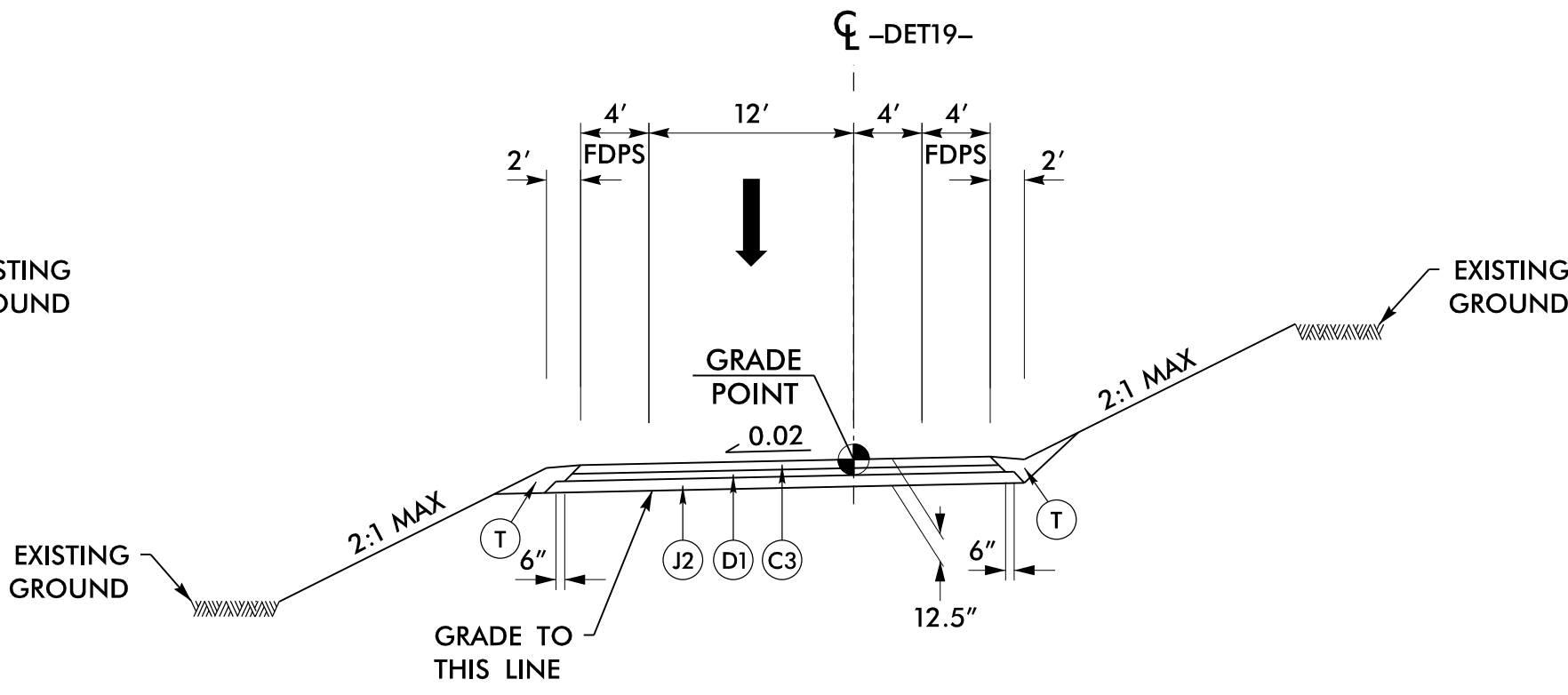
TYPICAL SECTION NO. 46
-DET18- STA. 13+13.19 TO 17+35.67



TYPICAL SECTION NO. 43
-DW3- STA. 10+50.00 TO 13+65.02



INSET NO. 16
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 44
-TY6RPC- STA. 12+62.05 TO 14+53.65



TYPICAL SECTION NO. 47
-DET19- STA. 10+15.27 TO 11+91.73

PROJECT REFERENCE NO.
1-2513AC

SHEET NO.
2A-13

ROADWAY DESIGN
ENGINEER
MOHAMMED FALAHA
8/10/2026

PAVEMENT DESIGN
ENGINEER
MOHAMMED FALAHA
8/10/2026

Prepared in the
Office of:
AECOM

NC FIRM LICENSE No: F-0342
5438 Wade Park, Boulevard, Suite 200
Raleigh, NC 27607
(919) 854-6000 • (919) 854-6259 (FAX)

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.			PAVEMENT SCHEDULE
A1	11"	PCG PAVE.	
A2	12"	CONC TRUCK APRON	
C1	1 1/4"	S9.5B	
C2	1 1/2"	S9.5B	
C3	2"	S9.5B	
C4	3"	S9.5B	
C5	VAR.	S9.5B	
C6	2"	S9.5C	
C7	3"	S9.5C	
C8	VAR.	S9.5C	
D1	2 1/2"	I19.0C	
D2	4"	I19.0C	
D3	VAR.	I19.0C	
E1	4"	B25.0C	
E2	5 1/4"	B25.0C	
E3	6"	B25.0C	
E4	VAR.	B25.0C	
J1	6"	ABC	
J2	8"	ABC	
J3	10"	ABC	
K2		SGS, CLASS IV	
N1		NONWOVEN GEO.	
N2		GEO. SUB. STAB.	
P1		PRIME COAT	
R1	1'-6"	C&G	
R2	2'-6"	C&G	
R3	8"x18"	CURB	
R4	5"	MONO ISLAND	
R5		EXPRESS. GUTTER	
R6		SH. BERM GUTTER	
R7		SF SS BAR.	
R8		PRECAST BARRIER	
R9		BARRIER RAIL	
R10		SS CONC. BAR.	
R11	3"	CONC. ISL. CVR	
R12	3"	ROLLED CURB	
S	4"	CONC. SW.	
T		EARTH MATERIAL	
W1	WEDGING DET.#1	U	EXIST. PVMT.
W2	WEDGING DET.#2	V1	RUMBLE STRIPS
W3	WEDGING DET.#3	V2	INC MILLING

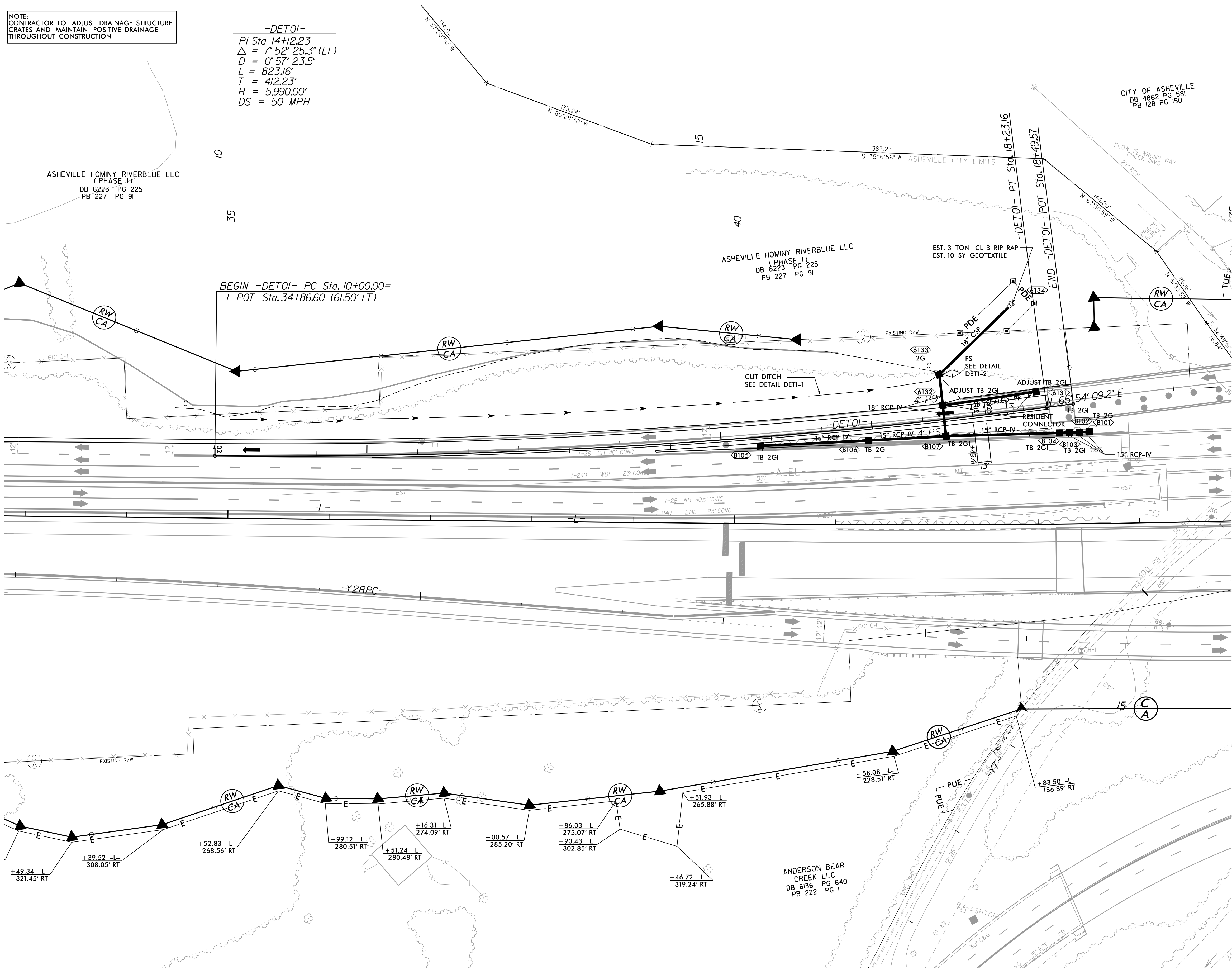
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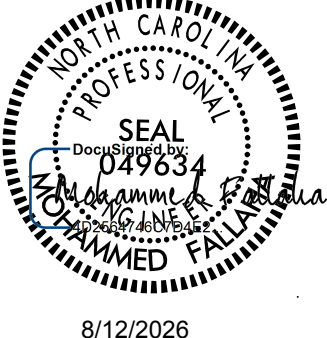
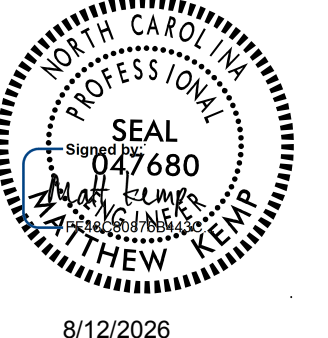
8/14/2026 -edy.psh02B-1.dgn
mohammed@alltel.net

TEMPORARY DETOUR -DET01-

NOTE:
CONTRACTOR TO ADJUST DRAINAGE STRUCTURE
GRATES AND MAINTAIN POSITIVE DRAINAGE
THROUGHOUT CONSTRUCTION

-DET01-
PI Sta 14+12.23
 $\Delta = 7^{\circ} 52' 25.3" (LT)$
 $D = 0^{\circ} 57' 23.5"$
 $L = 823.16'$
 $T = 412.23'$
 $R = 5990.00'$
 $DS = 50 MPH$



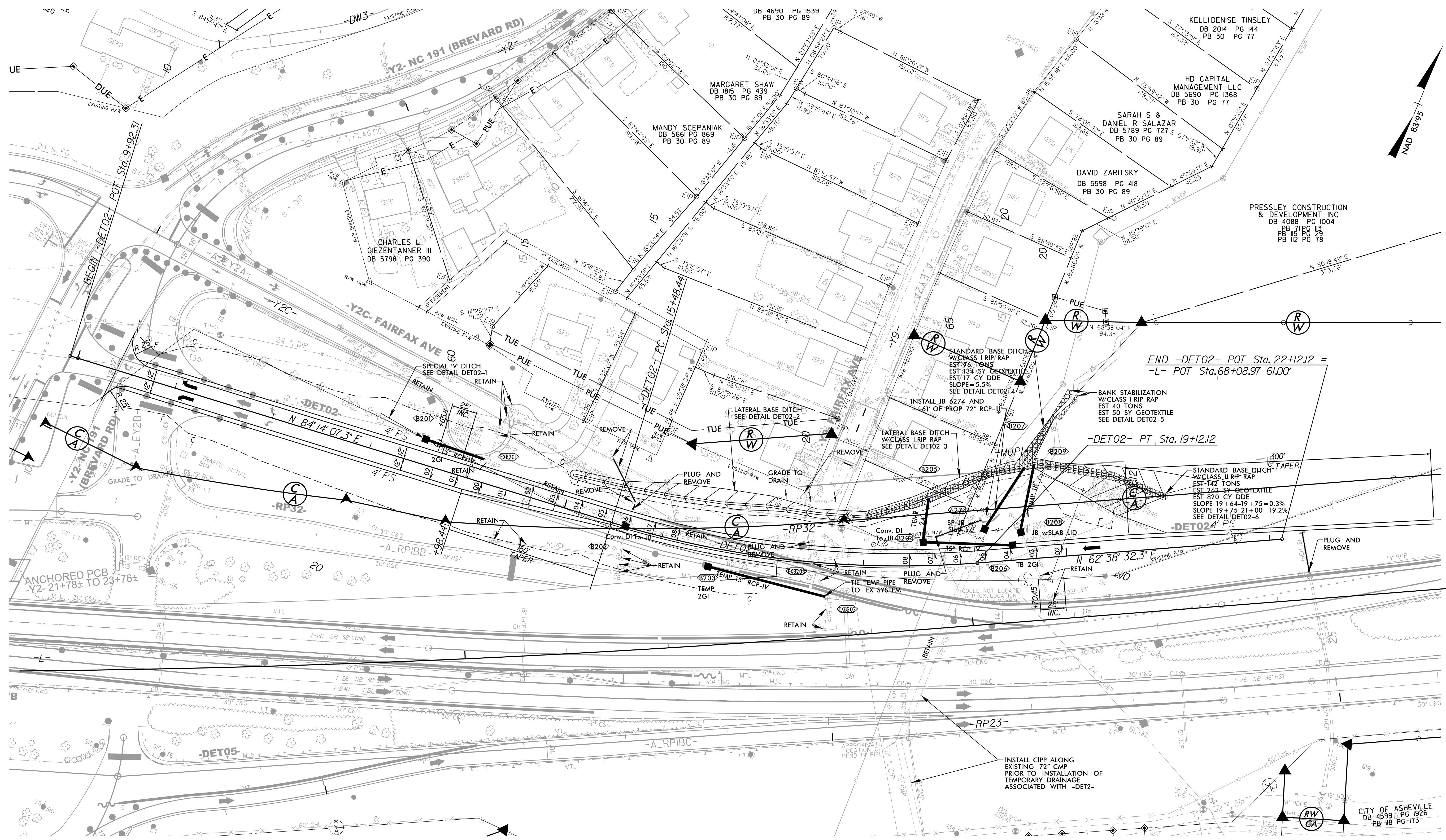
PROJECT REFERENCE NO.		SHEET NO.	
1-2513AC		2B-1	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
8/12/2026		8/12/2026	
Prepared in the Office of:		NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (FAX)	

FOR -DET01- PROFILE SEE SHEET 32
FOR -DET01- TMP SEE SHEET TMP-20,21

TEMPORARY DETOUR -DET02-

-DET02-
PI Sta 17+32.47
 $\Delta = 21' 35" 35.0"$ (LT)
 $D = 5' 56" 14.6"$
 $L = 363.68'$
 $T = 184.02'$
 $R = 965.00'$
 $DS = 55 \text{ MPH}$

PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 2B-2	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
8/12/2026		8/12/2026	
Prepared in the Office of: AECOM		NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27601 (919) 854-6200 • (919) 854-6259 (FAX)	



FOR -DET02- PROFILE SEE SHEET 32
FOR -DET02- TMP SEE SHEET TMP-22

-DET03A-

$PI Sta\ 13+28.80$
 $\Delta = 14^\circ 58' 38.7" (RT)$
 $D = 5^\circ 43' 46.5"$
 $L = 261.41'$
 $T = 131.45'$
 $R = 1,000.00'$
 $DS = 40\ MPH$

FOR -DET03- PROFILE SEE SHEET 33
FOR -DET03- TMP SEE SHEET TMP-16

-DET04-		
<i>PI Sta 10+47.33</i>	<i>PI Sta 11+41.33</i>	<i>PI Sta 17+70.34</i>
$\Delta = 16^{\circ} 34' 19.6" (RT)$	$\Delta = 16^{\circ} 34' 19.6" (LT)$	$\Delta = 11^{\circ} 41' 16.3" (RT)$
$D = 17^{\circ} 37' 46.1"$	$D = 17^{\circ} 37' 46.1"$	$D = 7^{\circ} 38' 22.0"$
$L = 94.00'$	$L = 94.00'$	$L = 152.99'$
$T = 47.33'$	$T = 47.33'$	$T = 76.76'$
$R = 325.00'$	$R = 325.00'$	$R = 750.00'$
$DS = 15 \text{ MPH}$	$DS = 15 \text{ MPH}$	$DS = 25 \text{ MPH}$

FOR -DET04- PROFILE SEE SHEET 33,33A
FOR -DET04- TMP SEE SHEET TMP-30,34

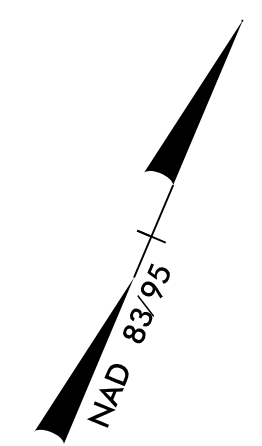
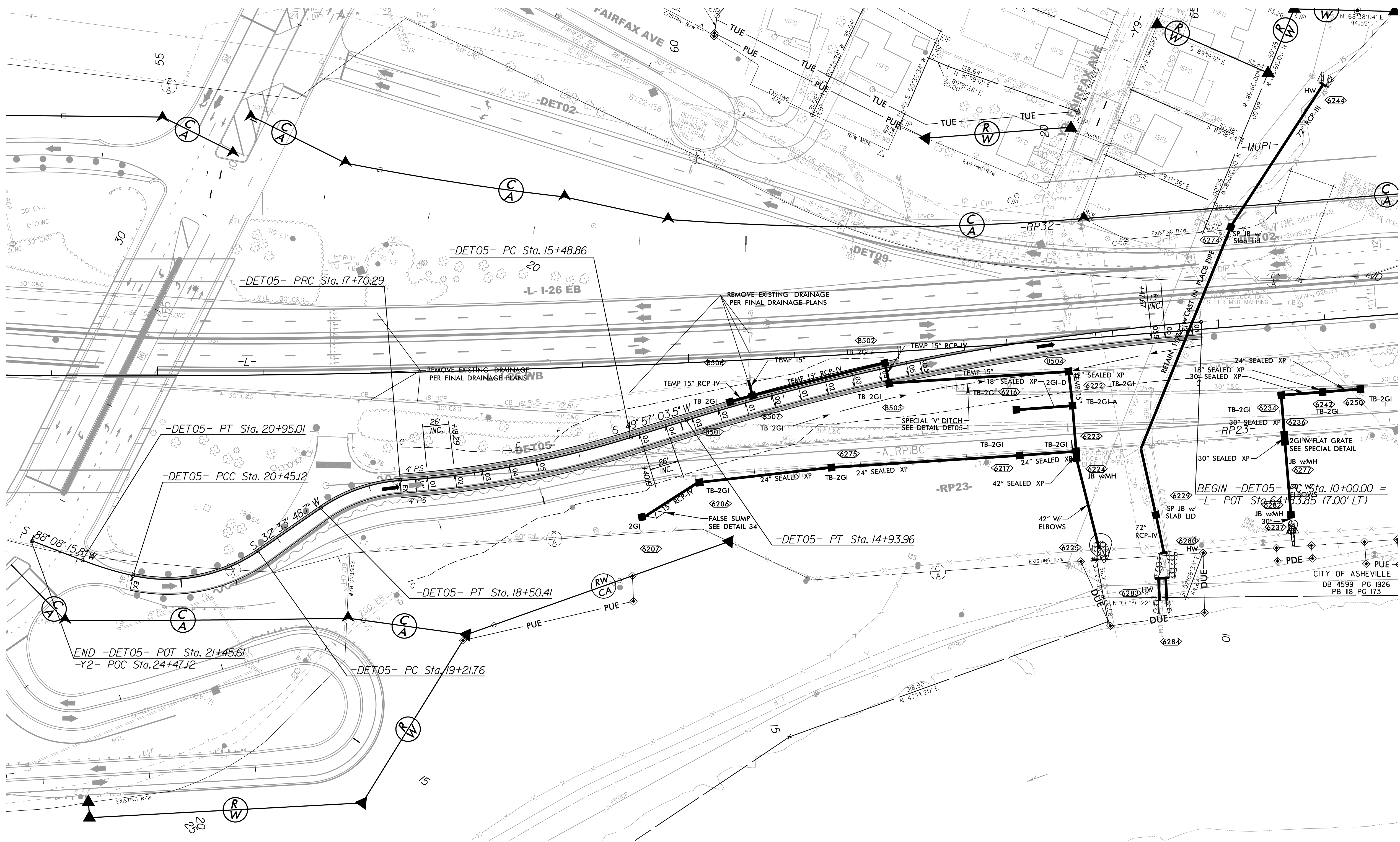
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8/12/2026
12513AC-rdy-psh028-5.dgn
mohammed.fallah

TEMPORARY DETOUR -DET05-

PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 2B-5	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
8/12/2026		8/12/2026	
Prepared in the Office of: AECOM		NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27609 (919) 854-6200 • (919) 854-6299 (FAX)	

-DET05-				
PI Sta 12+47.99 Δ = 12° 41' 28.7" (LT) D = 2° 34' 09.5" L = 493.96' T = 247.99' R = 2,230.00' DS = 55 MPH	PI Sta 16+60.07 Δ = 13° 12' 56.5" (RT) D = 5° 58' 05.9" L = 221.43' T = 111.21' R = 960.00' DS = 35 MPH	PI Sta 18+11.33 Δ = 30° 36' 11.3" (LT) D = 38° 11' 49.9" L = 801.2' T = 41.04' R = 150.00'	PI Sta 19+87.17 Δ = 47° 07' 02.8" (RT) D = 38° 11' 49.9" L = 123.35' T = 65.40' R = 150.00'	PI Sta 20+70.11 Δ = 8° 27' 24.3" (RT) D = 16° 57' 05.1" L = 49.89' T = 24.99' R = 338.00'



FOR -DET05- PROFILE SEE SHEET 34
FOR -DET05- TMP SEE SHEET TMP-26

-DET06-		
<i>PI Sta 11+6.51</i>	<i>PI Sta 13+30.12</i>	<i>PI Sta 16+08.28</i>
$\Delta = 8^{\circ} 06' 00.7''$ (RT)	$\Delta = 10^{\circ} 48' 53.1''$ (LT)	$\Delta = 26^{\circ} 53' 36.0''$ (LT)
<i>D = 3' 28" 55.5"</i>	<i>D = 5' 33" 45.7"</i>	<i>D = 7' 33" 31.7"</i>
<i>L = 232.63'</i>	<i>L = 194.42'</i>	<i>L = 355.79'</i>
<i>T = 116.51'</i>	<i>T = 97.50'</i>	<i>T = 181.23'</i>
<i>R = 1,645.45'</i>	<i>R = 1,030.00'</i>	<i>R = 758.00'</i>
<i>DS = 50 MPH</i>	<i>DS = 35 MPH</i>	<i>DS = 50 MPH</i>

FOR -DET06- PROFILE SEE SHEET 34
FOR -DET06- TMP SEE SHEET TMP-37,38

5/14/99
8/4/2026
22:46
-rdy_esh02B-7.dgn
mohammed@ltd.com

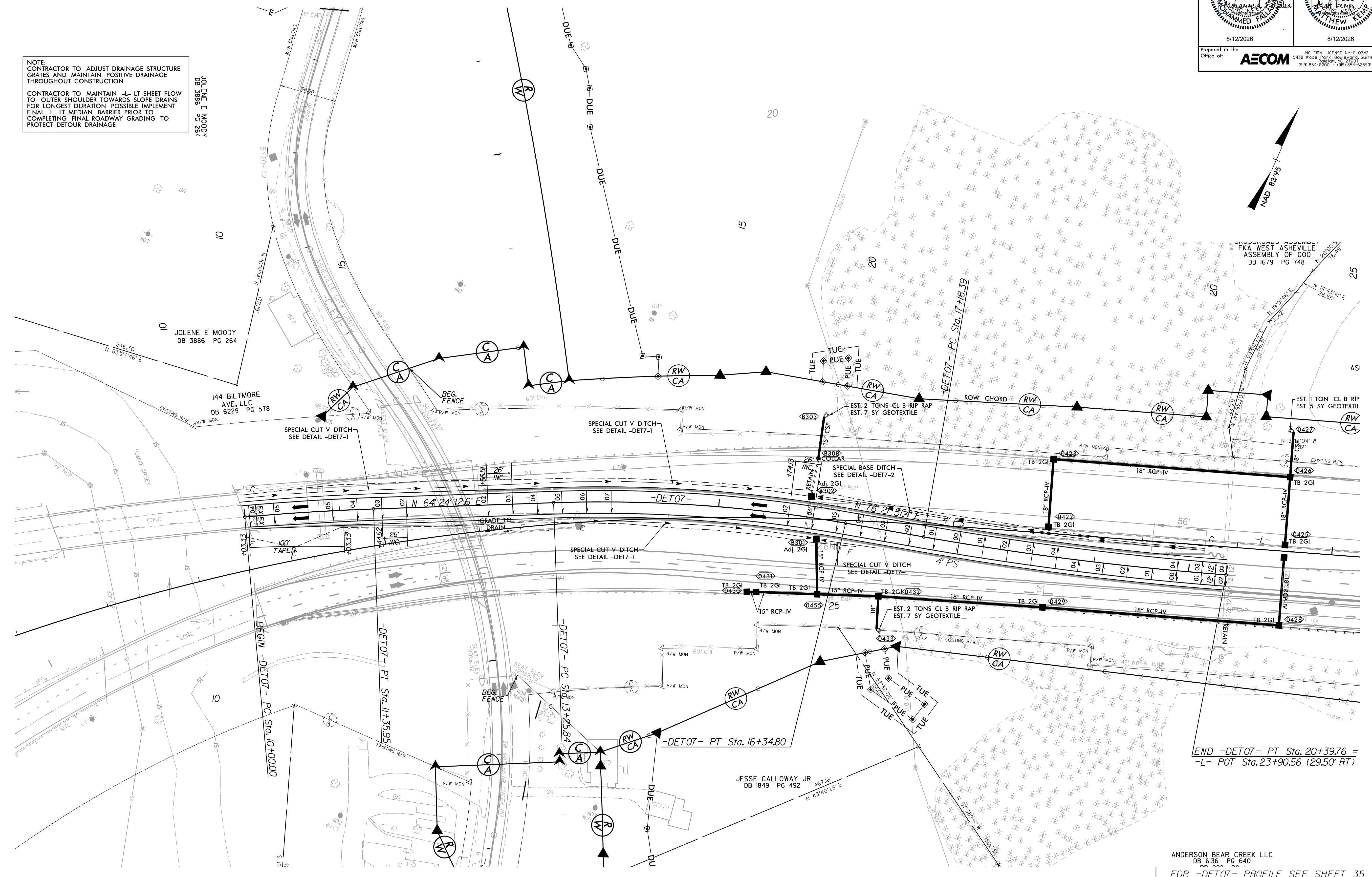
TEMPORARY DETOUR -DET07-

NOTE:
CONTRACTOR TO ADJUST DRAINAGE STRUCTURE GRATES AND MAINTAIN POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION
CONTRACTOR TO MAINTAIN -L- LT SHEET FLOW TO OUTER SHOULDER TOWARDS SLOPE DRAINS FOR LONGEST DURATION POSSIBLE. IMPLEMENT FINAL -L- LT MEDIAN BARRIER PRIOR TO COMPLETING FINAL ROADWAY GRADING TO PROTECT DETOUR DRAINAGE

JOLENE E MOODY
DB 3886 PG 264

144 BILTMORE
AVE, LLC
DB 6229 PG 578

-DET07-		
PI Sta 10+67.99 $\Delta = 3^{\circ} 09' 12.9''$ (RT) $D = 2^{\circ} 19' 10.8''$ $L = 135.95'$ $T = 67.99'$ $R = 2,470.00'$ $DS = 55$ MPH	PI Sta 14+80.88 $\Delta = 11^{\circ} 57' 38.8''$ (RT) $D = 3^{\circ} 52' 16.8''$ $L = 308.96'$ $T = 155.04'$ $R = 1,480.00'$ $DS = 55$ MPH	PI Sta 18+79.21 $\Delta = 5^{\circ} 37' 51.4''$ (LT) $D = 1^{\circ} 45' 07.8''$ $L = 321.37'$ $T = 160.81'$ $R = 3,270.00'$ $DS = 55$ MPH



PROJECT REFERENCE NO.		SHEET NO.
1-2513AC		2B-7
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
8/12/2026		8/12/2026
Prepared in the Office of: AECOM		
NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (FAX)		

ANDERSON BEAR CREEK LLC
DB 6136 PG 640
FOR -DET07- PROFILE SEE SHEET 35
FOR -DET07- TMP SEE SHEET TMP-56

PROJECT REFERENCE NO.		SHEET NO.	
1-2513AC		2B-8	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
8/12/2026		8/12/2026	
Prepared in the Office of:		NC FIRM LICENSE No. F-0342 5438 Stone Park Boulevard, Suite 200 ROSELIN, NC 27069 (919) 854-6200 / (919) 854-6255(FAX)	

NOTE:
CONTRACTOR TO ADJUST DRAINAGE STRUCTURE
GRATES AND MAINTAIN POSITIVE DRAINAGE
THROUGHOUT CONSTRUCTION

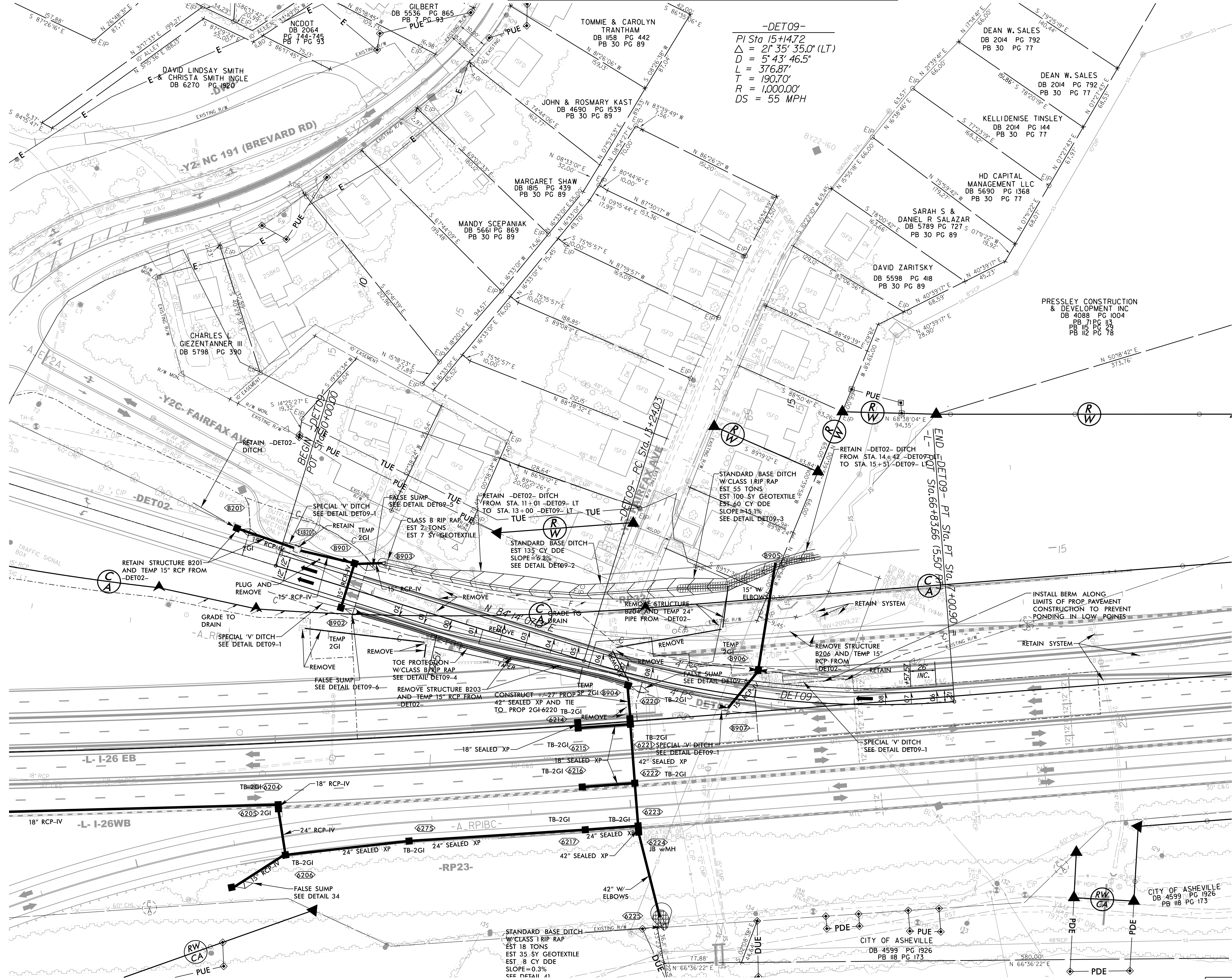


5/14/2026

8/12/2026 - rdy_esh028-9.dgn
mohamed@aloha

TEMPORARY DETOUR -DET09-

-DET09-
PI Sta 15+14.72
 $\Delta = 21' 35" 35.0" (LT)$
 $D = 5' 43' 46.5"$
 $L = 376.87'$
 $T = 190.70'$
 $R = 1,000.00'$
 $DS = 55 MPH$



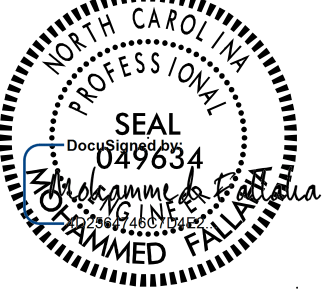
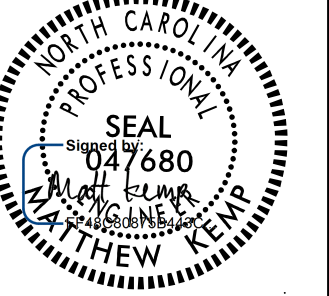
PROJECT REFERENCE NO.		SHEET NO.	
1-2513AC		2B-9	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
8/12/2026		8/12/2026	
Prepared in the Office of:		NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (FAX)	
AECOM			

FOR -DET09- PROFILE SEE SHEET 36
FOR -DET09- TMP SEE SHEET TMP-59

5/14/99

TEMPORARY DETOUR -DET11-

-DET10- ELIMINATED FROM PROJECT

PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 2B-10	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER  8/12/2026		HYDRAULICS ENGINEER  8/12/2026	
Prepared in the Office of: AECOM NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (FAX)			

NOTE:
CONTRACTOR TO ADJUST DRAINAGE STRUCTURE GRATES AND MAINTAIN POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION

-DET11-

PI Sta 11+69.69 Δ = 19° 15' 42.6" (LT) D = 5° 43' 46.5" L = 336.18' T = 169.69' R = 1,000.00' DS = 30 MPH	PI Sta 14+35.89 Δ = 11° 23' 17.3" (RT) D = 5° 43' 46.5" L = 198.76' T = 99.71' R = 1,000.00' DS = 30 MPH
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CITY OF ASHEVILLE
DB 4862 PG 581
PB 128 PG 150

CITY OF ASHEVILLE
DB 4862 PG 581
PB 128 PG 150

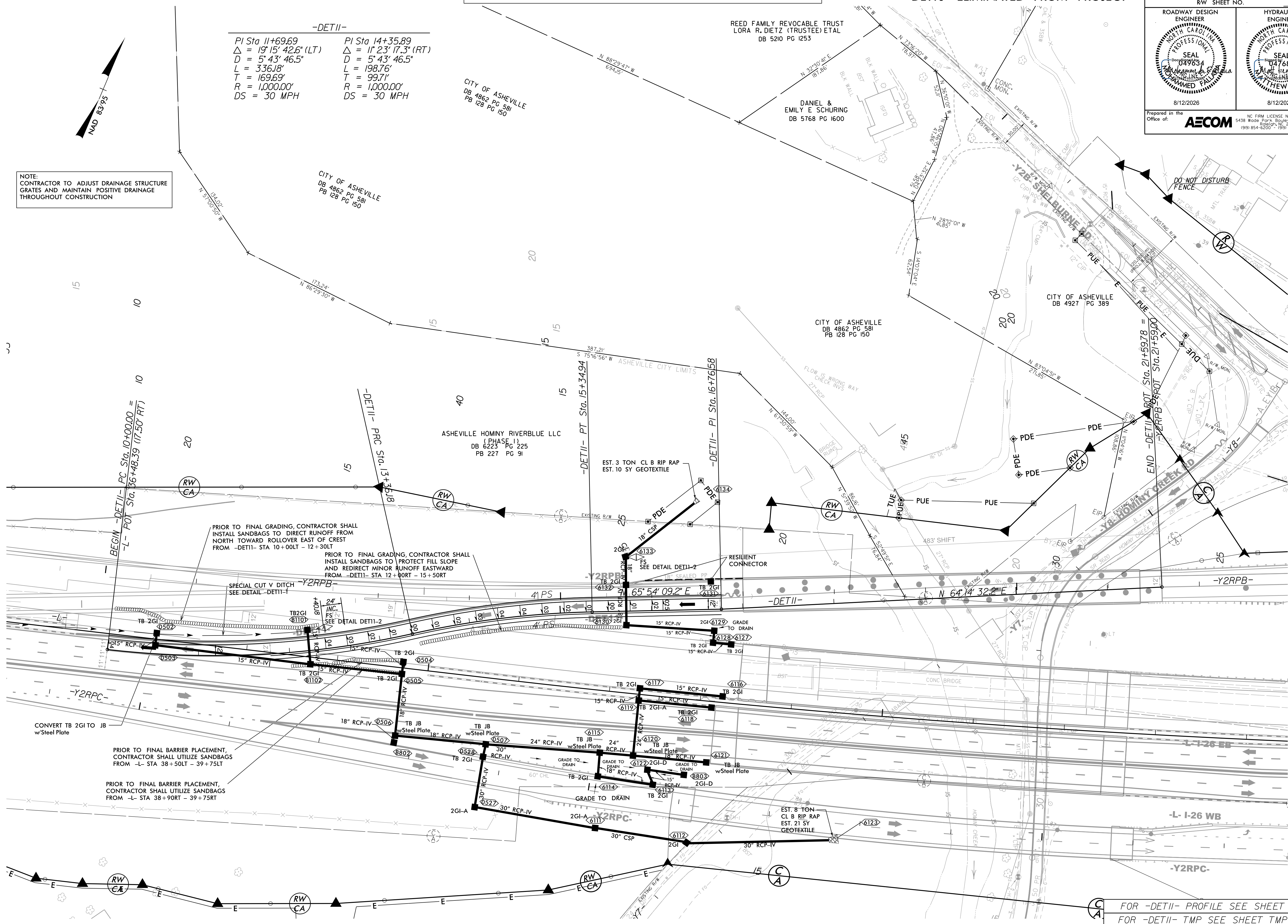
REED FAMILY REVOCABLE TRUST
LORA R. DIETZ (TRUSTEE) ETAL
DB 5210 PG 1253

DANIEL & EMILY E SCHURING
DB 5768 PG 1600

CITY OF ASHEVILLE
DB 4862 PG 581
PB 128 PG 150

CITY OF ASHEVILLE
DB 4927 PG 389

ASHEVILLE HOMINY RIVERBLUE LLC
(PHASE I)
DB 6223 PG 225
PB 227 PG 91



PRIOR TO FINAL GRADING, CONTRACTOR SHALL INSTALL SANDBAGS TO DIRECT RUNOFF FROM NORTH TOWARD ROLLOVER EAST OF CREST FROM -DET11- STA 10+00LT - 12+30LT

PRIOR TO FINAL GRADING, CONTRACTOR SHALL INSTALL SANDBAGS TO PROTECT FILL SLOPE AND REDIRECT MINOR RUNOFF EASTWARD FROM -DET11- STA 12+00RT - 15+50RT

PRIOR TO FINAL BARRIER PLACEMENT, CONTRACTOR SHALL UTILIZE SANDBAGS FROM -L- STA 38+50LT - 39+75LT

PRIOR TO FINAL BARRIER PLACEMENT, CONTRACTOR SHALL UTILIZE SANDBAGS FROM -L- STA 38+90RT - 39+75RT

FOR -DET11- PROFILE SEE SHEET 37
FOR -DET11- TMP SEE SHEET TMP-64

8/14/2026
13536
mohammed.elshorbagy
8/14/2026
13536
mohammed.elshorbagy

5/14/2026

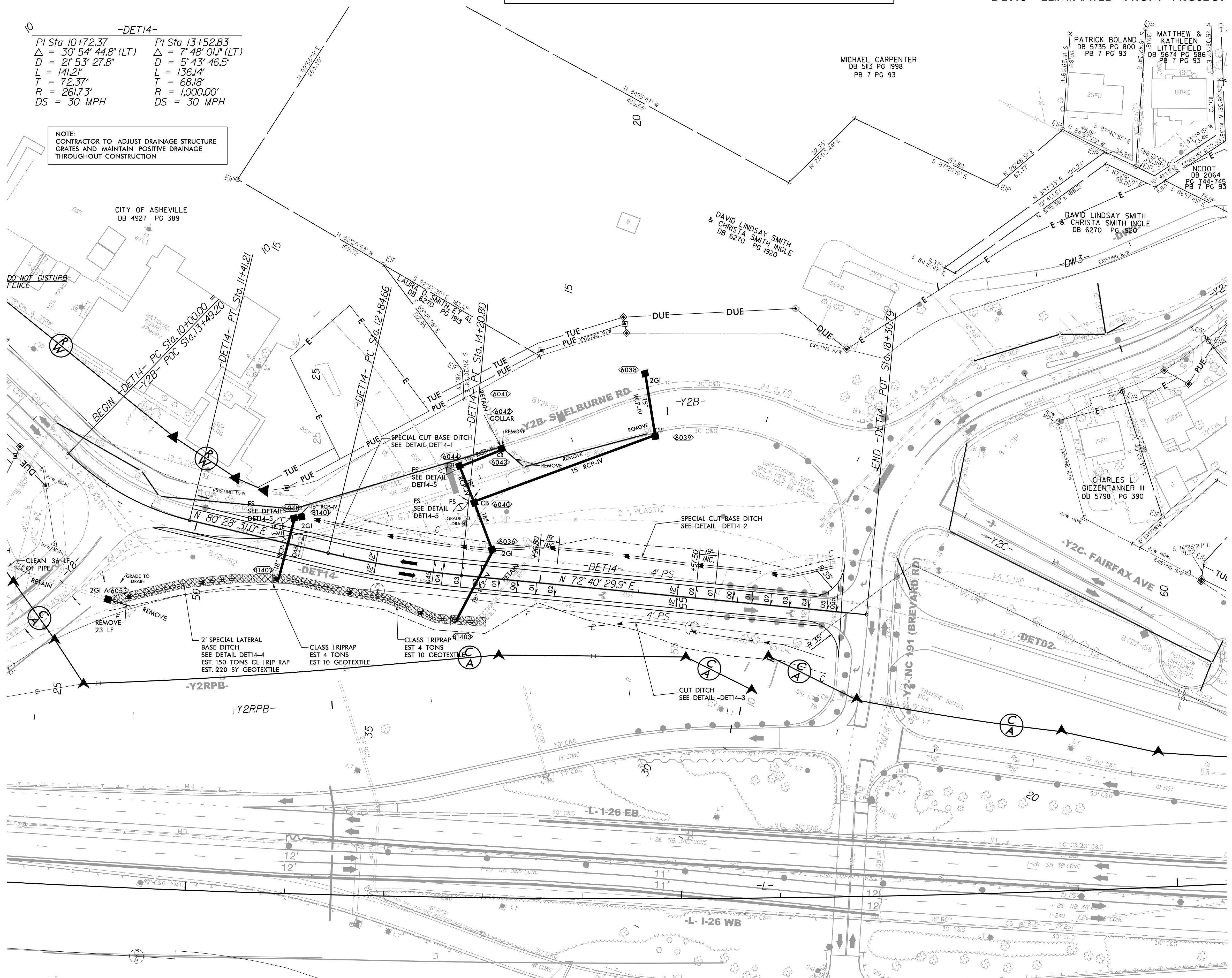
8/14/2026 -duy_psh02B-11.dgn
mohamed.rahman

TEMPORARY DETOUR -DET14-

-DET12- ELIMINATED FROM PROJECT
-DET13- ELIMINATED FROM PROJECT

-DET14-	
PI Sta 10+72.37	PI Sta 13+52.83
$\Delta = 30^\circ 54' 44.8''$ (LT)	$\Delta = 7^\circ 48' 01.1''$ (LT)
$D = 21^\circ 53' 27.8''$	$D = 5^\circ 43' 46.5''$
$L = 141.21'$	$L = 136.14'$
$T = 72.37'$	$T = 68.18'$
$R = 261.73'$	$R = 1,000.00'$
$DS = 30$ MPH	$DS = 30$ MPH

NOTE:
CONTRACTOR TO ADJUST DRAINAGE STRUCTURE
GRATES AND MAINTAIN POSITIVE DRAINAGE
THROUGHOUT CONSTRUCTION



PROJECT REFERENCE NO.		SHEET NO.	
1-2513AC		2B-11	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
8/12/2026		8/12/2026	
Prepared in the Office of: AECOM		NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (FAX)	

FOR -DET14- PROFILE SEE SHEET 38
FOR -DET14- TMP SEE SHEET TMP-14.15

5/14/99

8/14/2026
135326
cdy-esh02B-12.dgn
mohammed.rahman

TEMPORARY DETOUR -DET16-

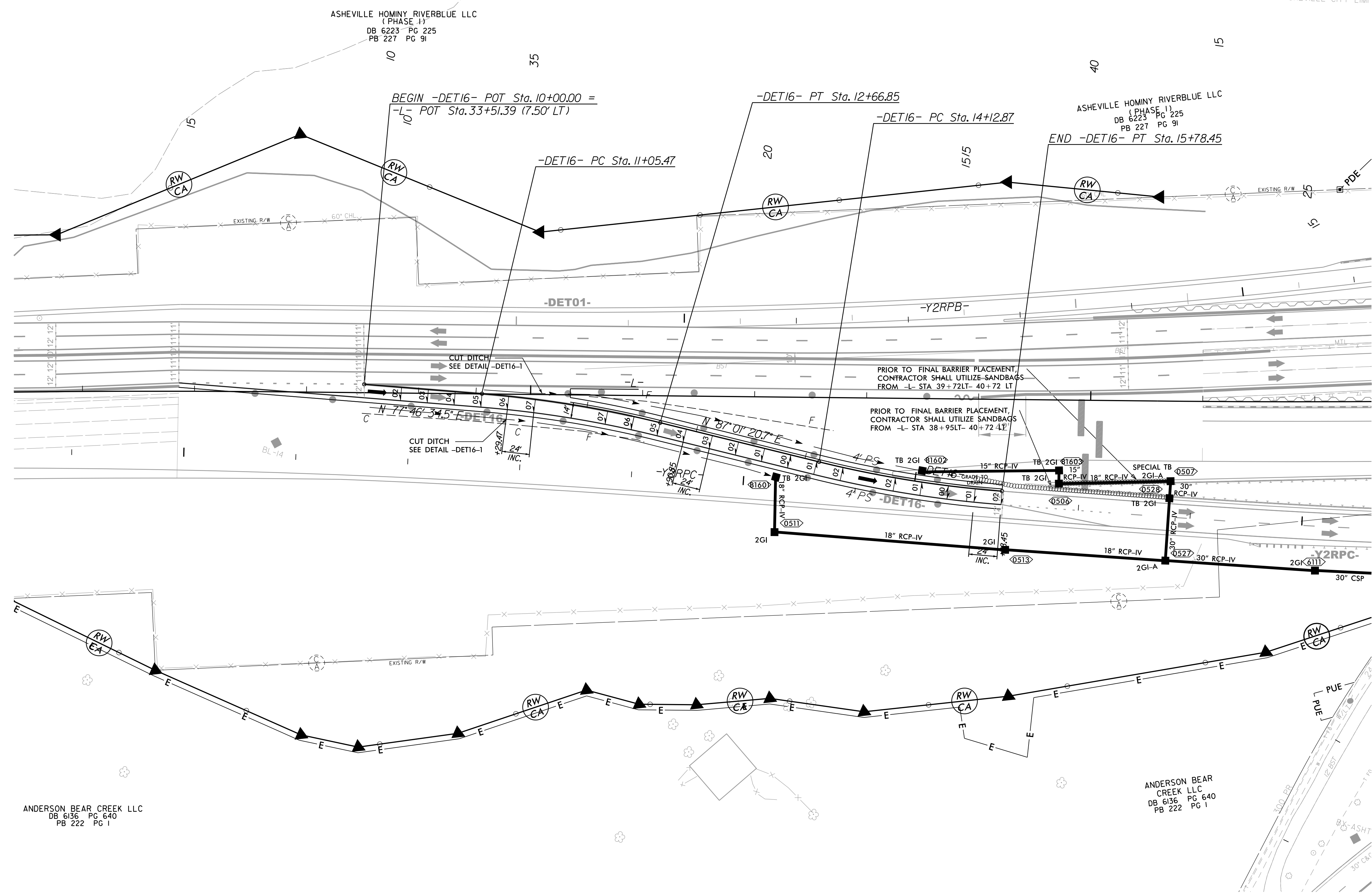
-DET15- ELIMINATED FROM PROJECT

NOTE:
CONTRACTOR TO ADJUST DRAINAGE STRUCTURE
GRATES AND MAINTAIN POSITIVE DRAINAGE
THROUGHOUT CONSTRUCTION

-DET16-	
PI Sta. 11+86.34	PI Sta. 14+95.85
$\Delta = 9^{\circ}14'46.2''$ (RT)	$\Delta = 9^{\circ}29'13.7''$ (LT)
D = 5'43'46.5"	D = 5'43'46.5"
L = 161.38'	L = 165.58'
T = 80.86'	T = 82.98'
R = 1,000.00'	R = 1,000.00'
DS = 45 MPH	DS = 15 MPH

CITY OF ASHEVILLE
DB 4862 PG 581
PB 128 PG 150

PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 2B-12
RW SHEET NO.		
ROADWAY DESIGN ENGINEER SEAL 047634 M. J. ELMA REGISTERED PROFESSIONAL ENGINEER 8/12/2026	HYDRAULICS ENGINEER SEAL 047680 MATTHEW YEE REGISTERED PROFESSIONAL ENGINEER 8/12/2026	
Prepared in the Office of: AECOM NC FIRM LICENSE No F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259(FAX)		

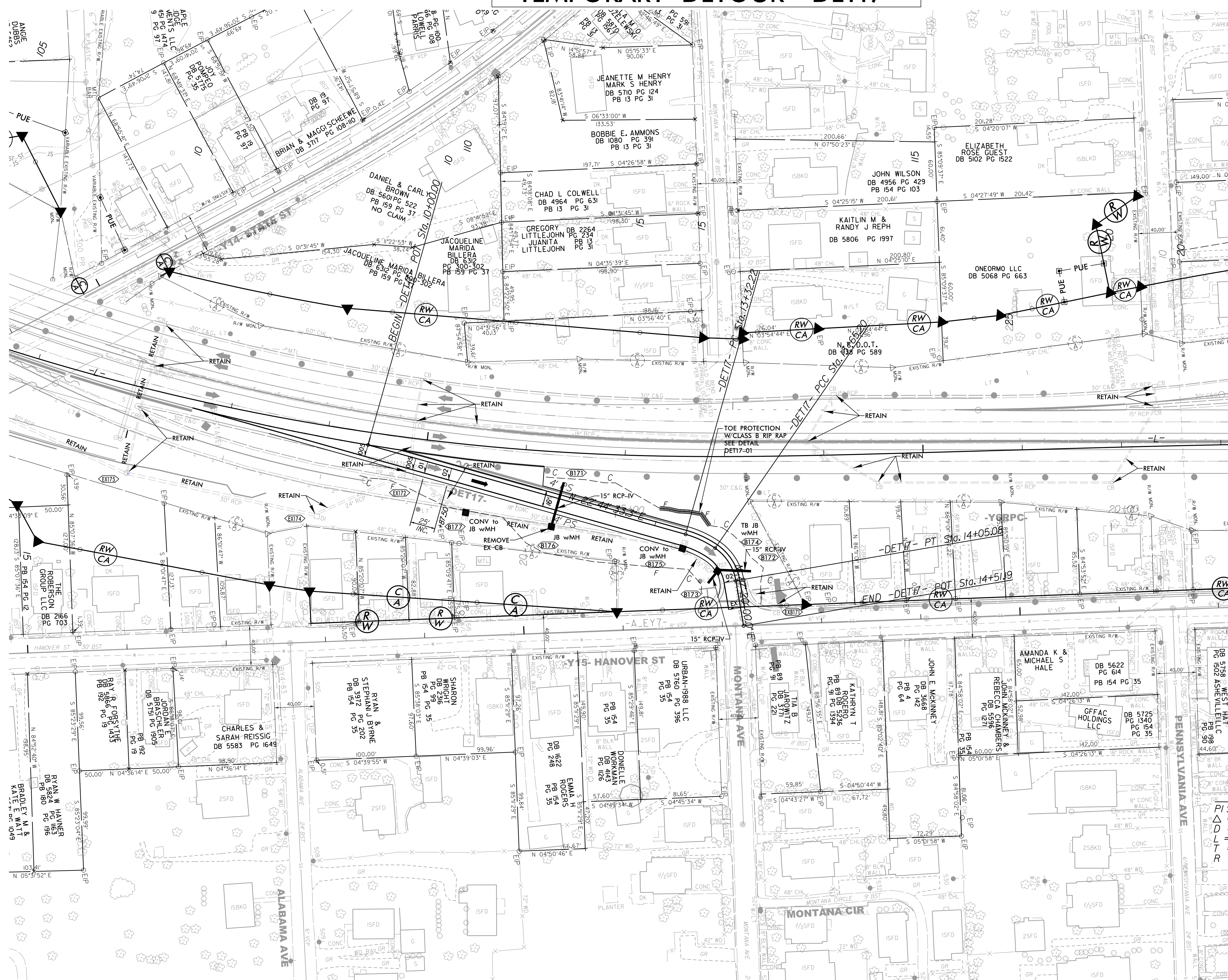


ANDERSON BEAR CREEK LLC
DB 6136 PG 640
PB 222 PG 1

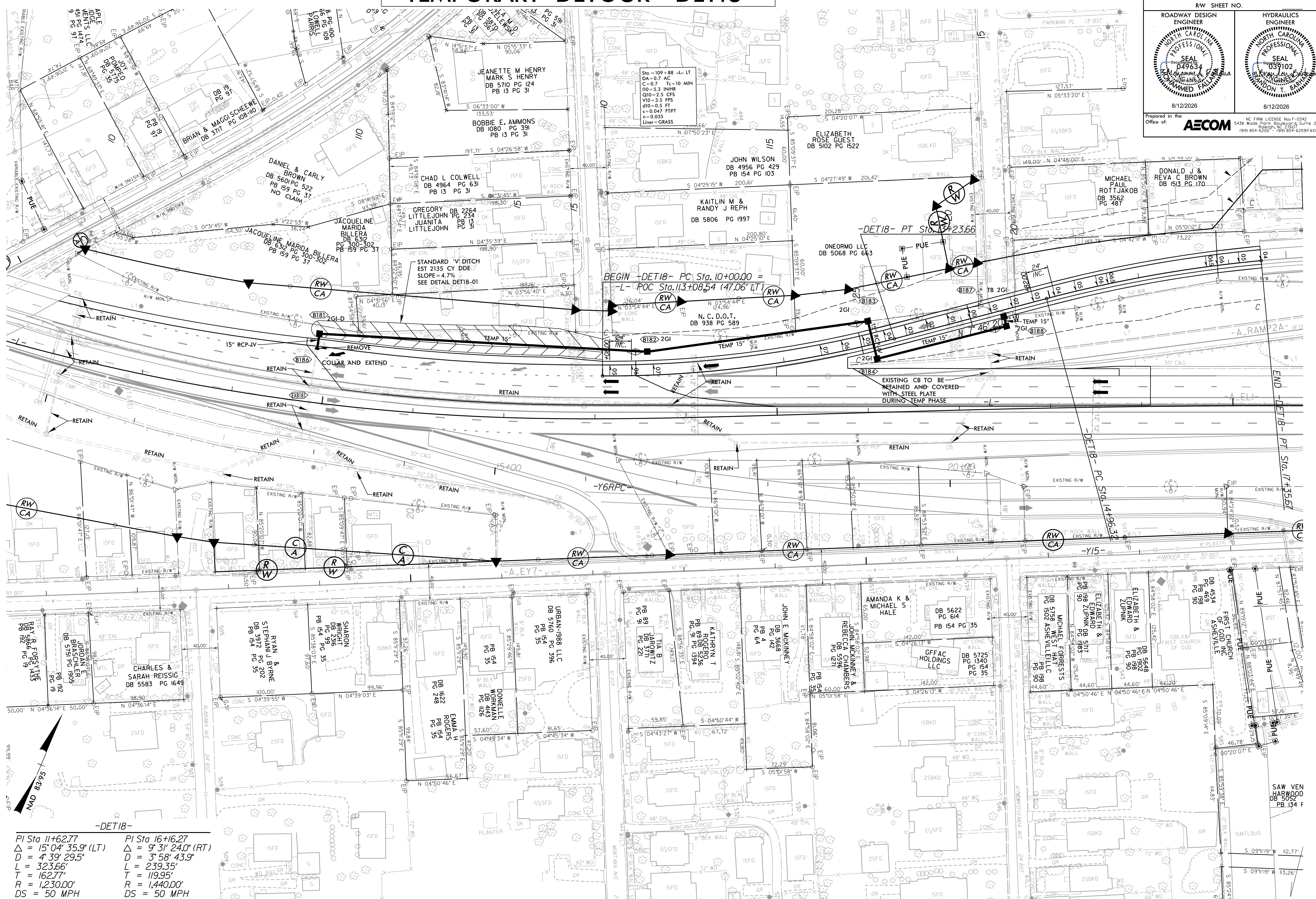
ANDERSON BEAR CREEK LLC
DB 6136 PG 640
PB 222 PG 1

FOR -DET16- PROFILE SEE SHEET 38
FOR -DET16- TMP SEE SHEET TMP-13

FOR -DET17- PROFILE SEE SHEET 39
FOR -DET17- TMP SEE SHEET TMP-44



PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	2B-14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER 8/21/2026	HYDRAULICS ENGINEER 8/21/2026
Prepared in the Office of: AECOM	NC FIRM LICENSE NO. F-0342 5438 Wade Park Boulevard, Suite 200 (919) 854-6200 • (919) 854-6259 FAX



FOR -DET18- PROFILE SEE SHEET 39
FOR -DET18- TMP SEE SHEETS TMP-55

PROJECT REFERENCE NO.		SHEET NO.	
I-25/34C		2B-15	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
8/12/2026		8/12/2026	

Prepared in the
Office of:

NC FIRM LICENSE NO F-0342
5438 Wode Park Boulevard, Suite 200
Raleigh, NC 27606
(919) 854-6200 • (919) 854-6259/FAX



6/2/2026
12:51:30
du_psh02B-16.dgn
Mohammed Fallah

DETAIL OF ROUNDABOUT -RAB1-

PROJECT REFERENCE NO.
1-2513AC

SHEET NO.
2B-16

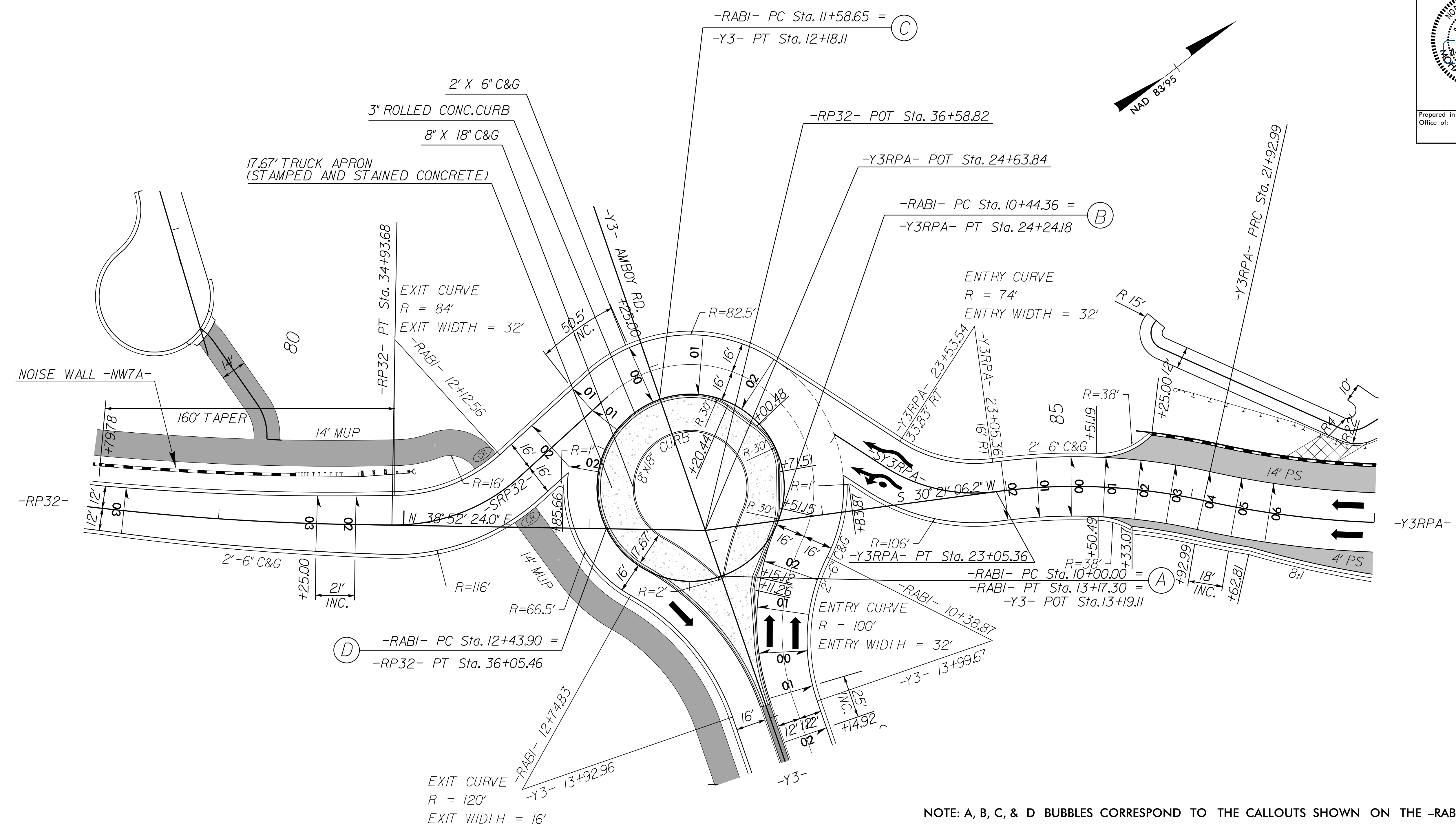
R/W SHEET NO.

ROADWAY DESIGN
ENGINEER

SEAL
049634
M. HAMMAM
REGISTERED PROFESSIONAL
ENGINEER
NORTH CAROLINA
EXPIRATION DATE 12/31/2026
8/12/2026

Prepared in the
Office of:
AECOM

NC FIRM LICENSE No: F-0342
5438 Wade Park Boulevard, Suite 200
Raleigh, NC 27607
(919) 854-6200 • (919) 854-6259(FAX)



NOTE: A, B, C, & D BUBBLES CORRESPOND TO THE CALLOUTS SHOWN ON THE -RAB1- PROFILE SHEET.

-RP32-	-RAB1-	-Y3RPA-			-SRP32-		-SY3RPA-
PI Sta 31+77.99	PI Sta 10+00.00	PIs Sta 10+66.69	PI Sta 20+66.32	PI Sta 22+49.76	PI Sta 34+84.57	PI Sta 35+33.94	PI Sta 23+38.67
$\Delta = 23^{\circ} 44' 26.3''$ (LT)	$\Delta = 360^{\circ} 00' 00.0''$ (RT)	$\Theta s = 3^{\circ} 37' 05.9''$	$\Delta = 29^{\circ} 06' 17.2''$ (RT)	$\Delta = 20^{\circ} 07' 10.6''$ (LT)	$\Delta = 0^{\circ} 49' 57.2''$ (LT)	$\Delta = 42^{\circ} 26' 57.0''$ (LT)	$\Delta = 40^{\circ} 36' 55.6''$ (RT)
$D = 3^{\circ} 57' 05.2''$	$D = 113^{\circ} 27' 25.2''$	$Ls = 200.00'$	$D = 11^{\circ} 14' 04.1''$	$D = 17^{\circ} 54' 17.8''$	$D = 3^{\circ} 57' 05.2''$	$D = 57^{\circ} 17' 44.8''$	$D = 63^{\circ} 39' 43.1''$
$L = 600.81'$	$L = 317.30'$	$L = 259.07'$	$L = 259.07'$	$L = 112.37'$	$L = 21.07'$	$L = 74.09'$	$L = 63.80'$
$T = 304.78'$	$T = 0.00'$	$T = 132.39'$	$T = 132.39'$	$T = 56.77'$	$T = 10.54'$	$T = 38.84'$	$T = 33.31'$
$R = 1,450.00'$	$R = 50.50'$	$R = 510.00'$	$R = 510.00'$	$R = 320.00'$	$R = 1,450.00'$	$R = 100.00'$	$R = 90.00'$
$e = 3.0\%$		$e = 6.0\%$	$e = 6.0\%$	$e = NC$			
$RUNOFF = 63.0'$		$RUNOFF = 108.0'$					

NOTES:
1. GRADE TO DRAIN THE INTERIOR OF THE CENTRAL ISLAND AS DIRECTED BY THE ENGINEER

TRUCK APRON

GRAPHIC SCALE
30 15 0 30 60
PLANS

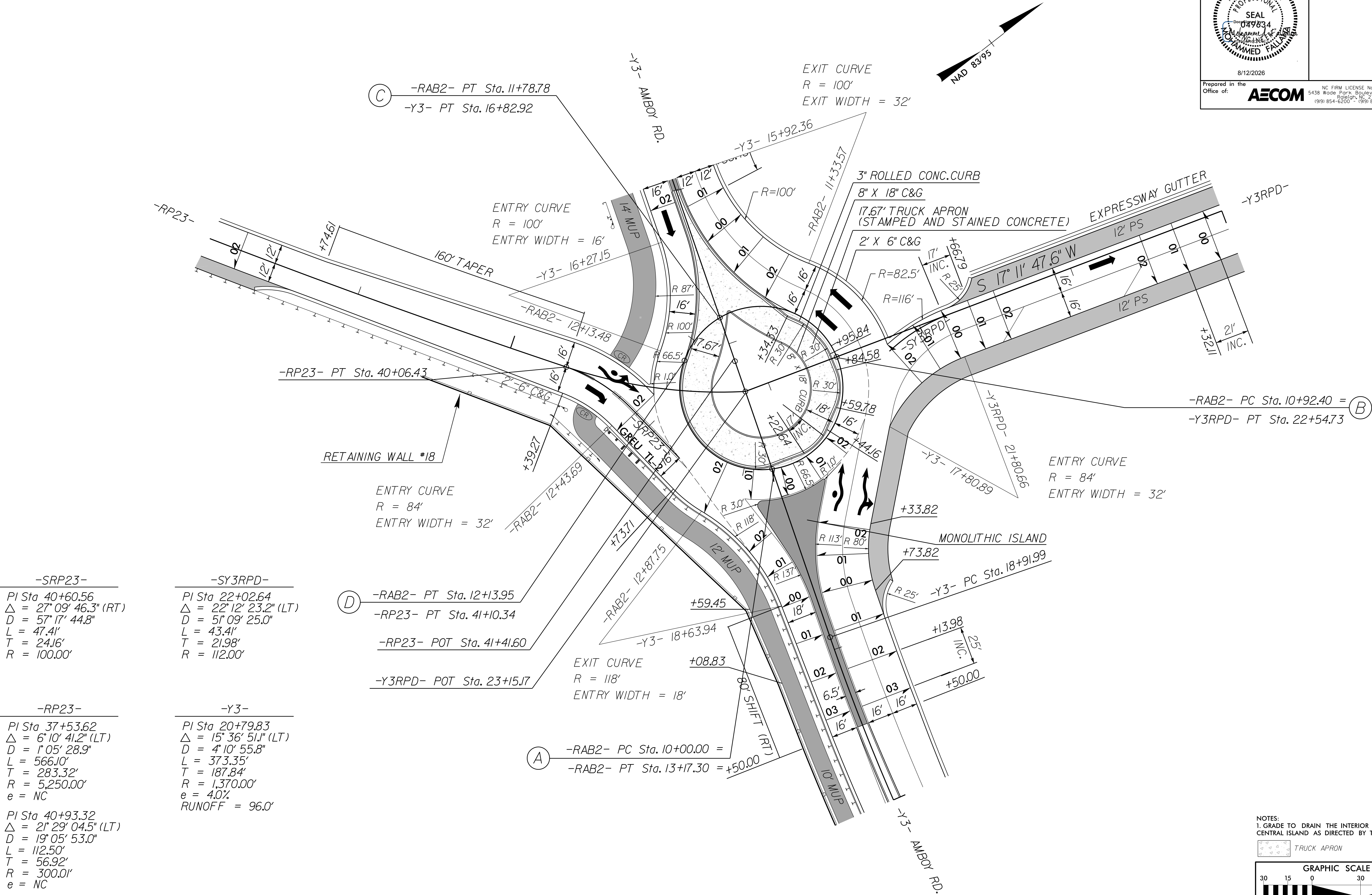
FOR -RAB1- PLAN SHEET SEE SHEET 7
FOR -RAB1- PROFILE SEE SHEET 37

6/2/2026

8/12/2026
125133026.dwg
Mohammed Fallah

DETAIL OF ROUNDABOUT -RAB2-

PROJECT REFERENCE NO.	SHEET NO.
1-2513AC	2B-17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
8/12/2026	
Prepared in the Office of: AECOM	
NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259(FAX)	



-SRP23-
PI Sta 40+60.56
Δ = 27° 09' 46.3" (RT)
D = 57° 17' 44.8"
L = 47.41'
T = 24.16'
R = 100.00'

-SY3RPD-
PI Sta 22+02.64
Δ = 22° 12' 23.2" (LT)
D = 51° 09' 25.0"
L = 43.41'
T = 21.98'
R = 112.00'

-RP23-
PI Sta 37+53.62
Δ = 6° 10' 41.2" (LT)
D = 1° 05' 28.9"
L = 566.10'
T = 283.32'
R = 5,250.00'
e = NC

-Y3-
PI Sta 20+79.83
Δ = 15° 36' 51.1" (LT)
D = 4° 10' 55.8"
L = 373.35'
T = 187.84'
R = 1,370.00'
e = 4.0%
RUNOFF = 96.0'

PI Sta 40+93.32
Δ = 21° 29' 04.5" (LT)
D = 19° 05' 53.0"
L = 112.50'
T = 56.92'
R = 300.01'
e = NC

(D) -RAB2- PT Sta. 12+13.95
-RP23- PT Sta. 41+10.34
-RP23- POT Sta. 41+41.60
-Y3RPD- POT Sta. 23+15.17

(A) -RAB2- PC Sta. 10+00.00 =
-RAB2- PT Sta. 13+17.30 = +50.00

-RAB2- PC Sta. 10+92.40 = (B)
-Y3RPD- PT Sta. 22+54.73

NOTE: A, B, C, & D BUBBLES CORRESPOND TO THE CALLOUTS SHOWN ON THE -RAB2- PROFILE SHEET.

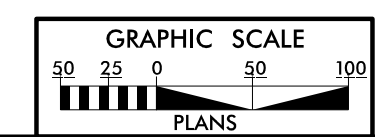
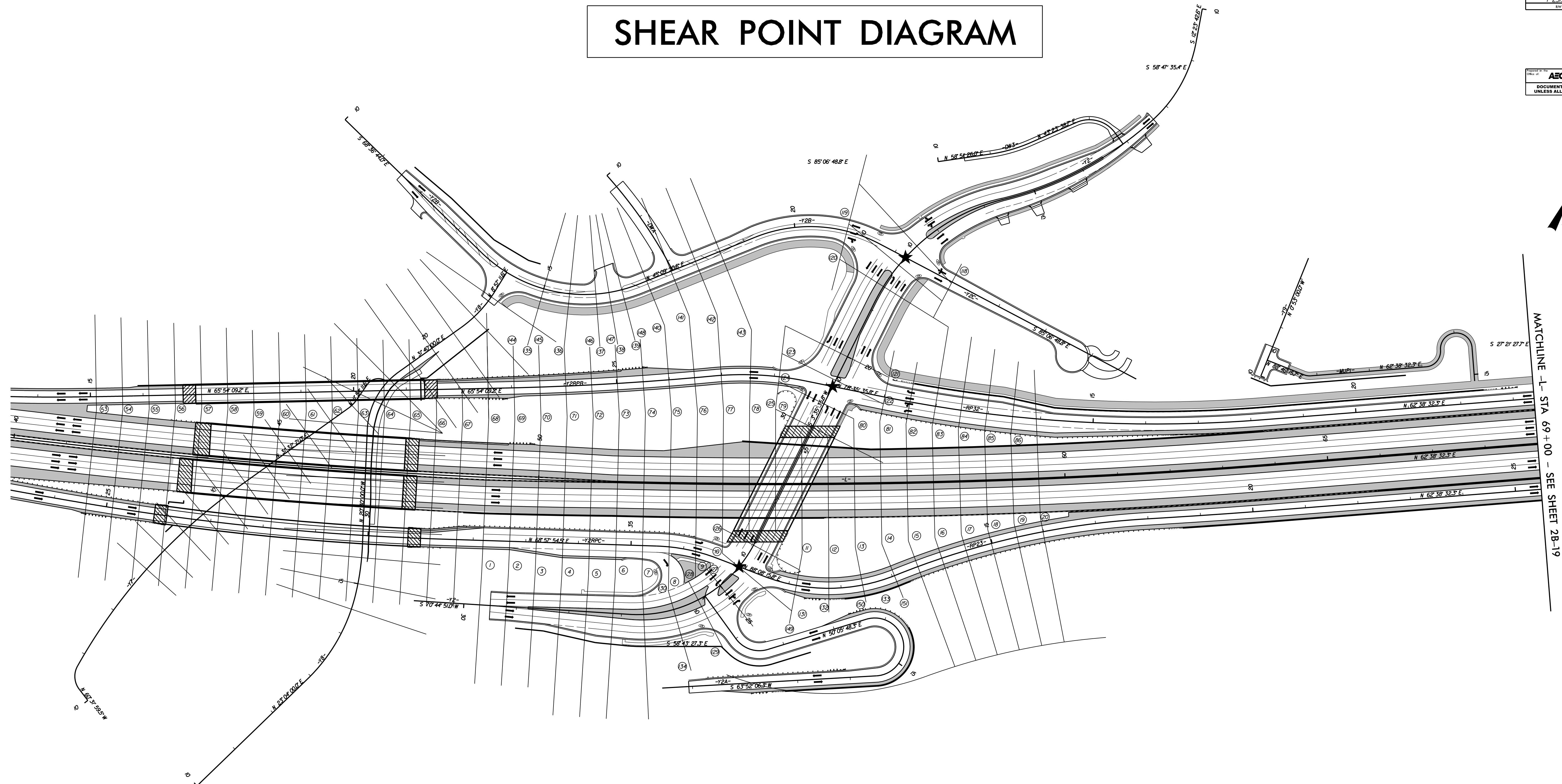
NOTES:
1. GRADE TO DRAIN THE INTERIOR OF THE CENTRAL ISLAND AS DIRECTED BY THE ENGINEER

 TRUCK APRON

GRAPHIC SCALE
30 15 0 30 60
PLANS

FOR -RAB1- PLAN SHEET SEE SHEET 7
FOR -RAB1- PROFILE SEE SHEET 37

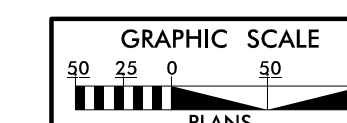
SHEAR POINT DIAGRAM



PROJECT REFERENCE NO. 1-253AC	SHEET NO. 28-1B
R/W ENGINEER NO.	
ROADWAY DESIGN ENGINEER	
	
	
STATE OF NORTH CAROLINA 1545 MARKET STREET, SUITE 1550 CARY, NC 27513 (919) 554-0000 FAX (919) 554-0229 WWW.AECOM.COM	

MATCHLINE -L- STA 69+00 - SEE SHEET 2B-19

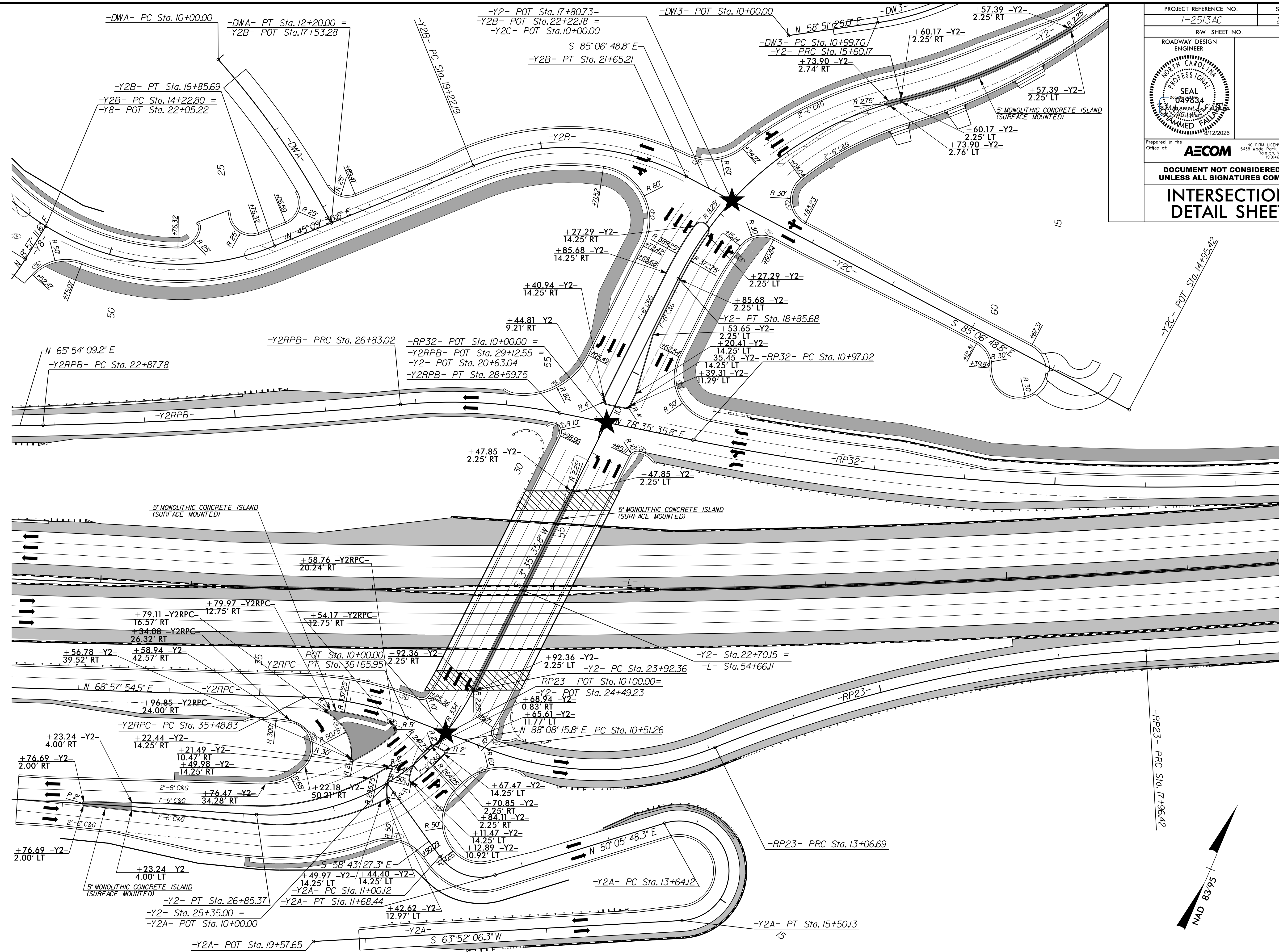
AD 8395

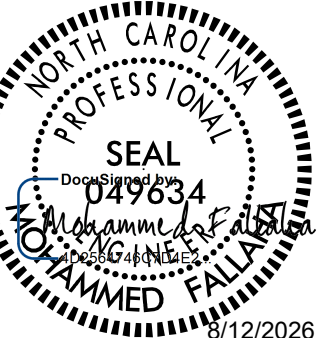


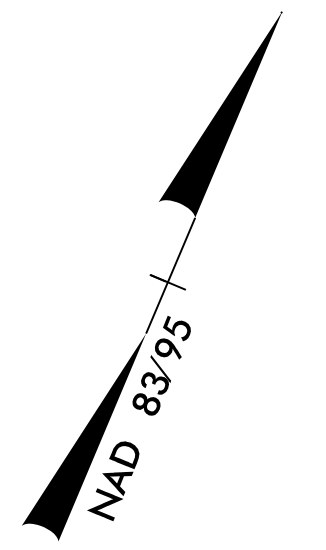
8/17/99

REVISIONS

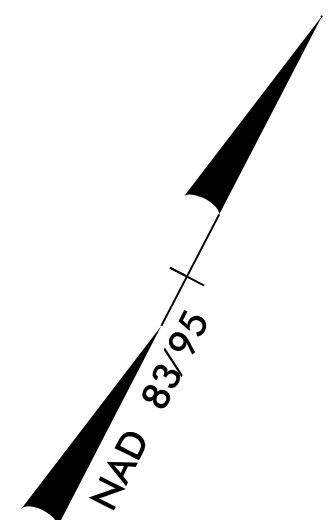
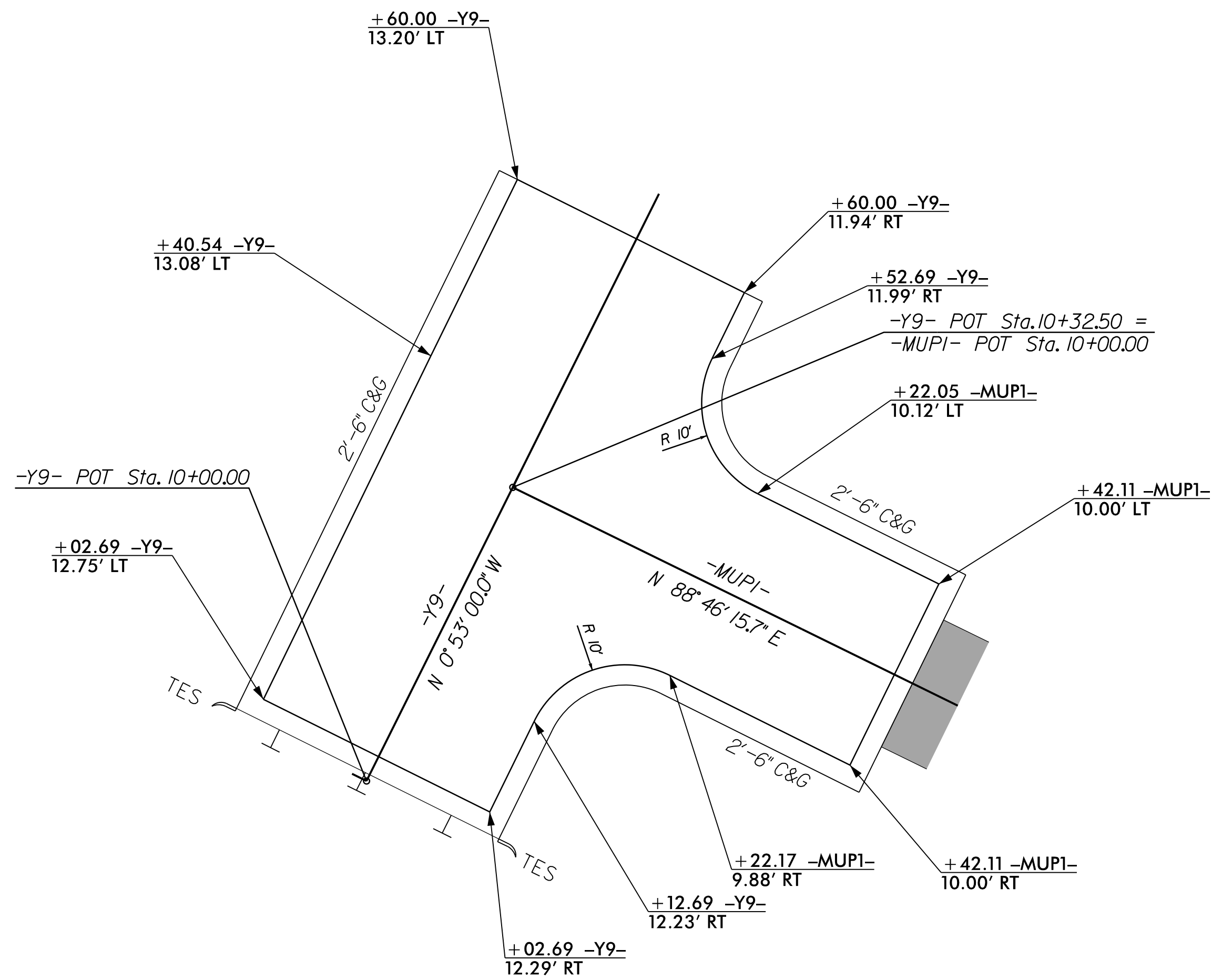
6/28/2026
1251360.dwg
Mohammed Fallah

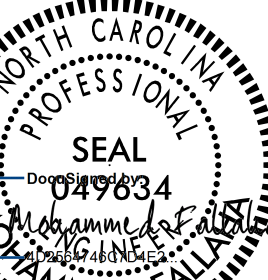


PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 2B-20	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER			
Prepared in the Office of:			
AECOM NC FIRM LICENSE No: F-0342 5438 Wade Park Blvd., Suite 200 Raleigh, NC 27607 (919) 461-1000			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
INTERSECTION DETAIL SHEET			

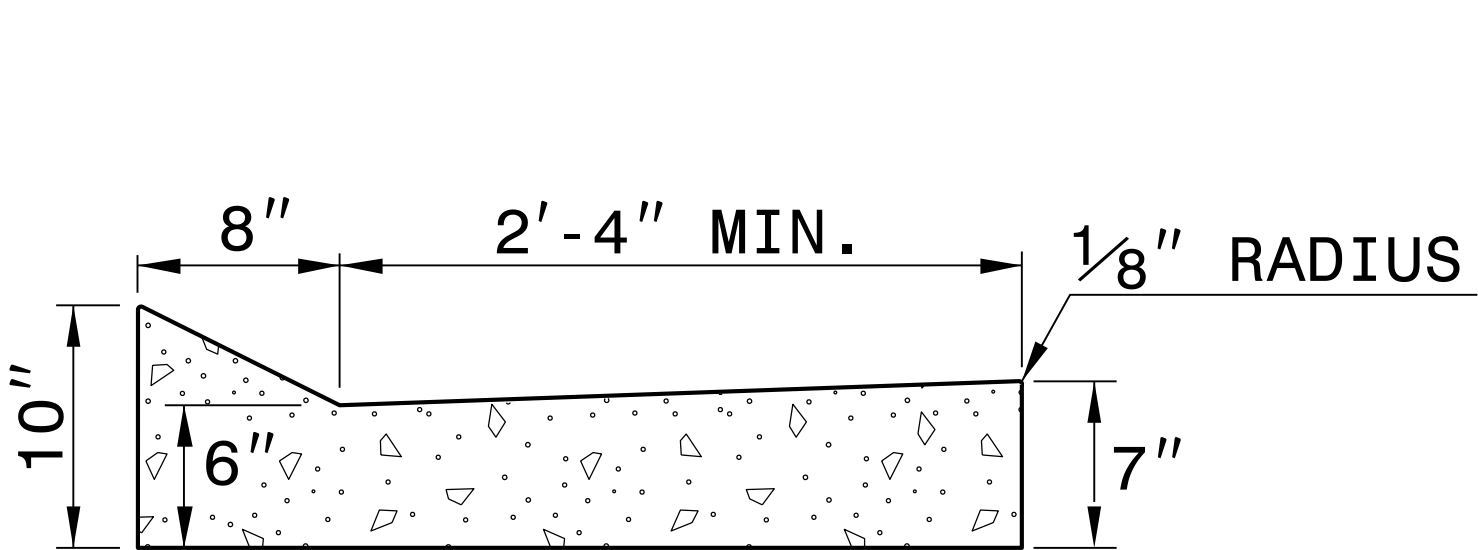


6/29/2026
I2513AC-rdy-psh02B-22.dgn
mohammed.fallah

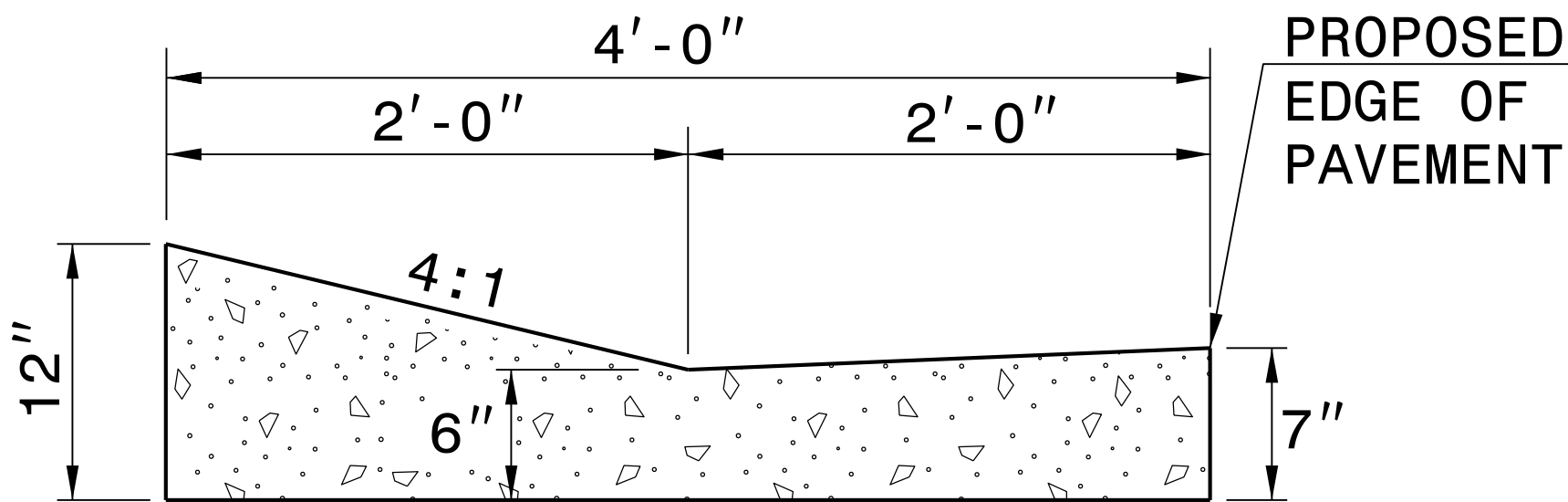


PROJECT REFERENCE NO.		SHEET NO.	
I-25/3AC		2B-22	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER			
Prepared in the Office of: 		NC FIRM LICENSE No. F-0342 5438 Wade Park Blvd., Suite 200 Raleigh, NC 27607 (919)461-1100	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
INTERSECTION DETAIL SHEET			

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	2C-1



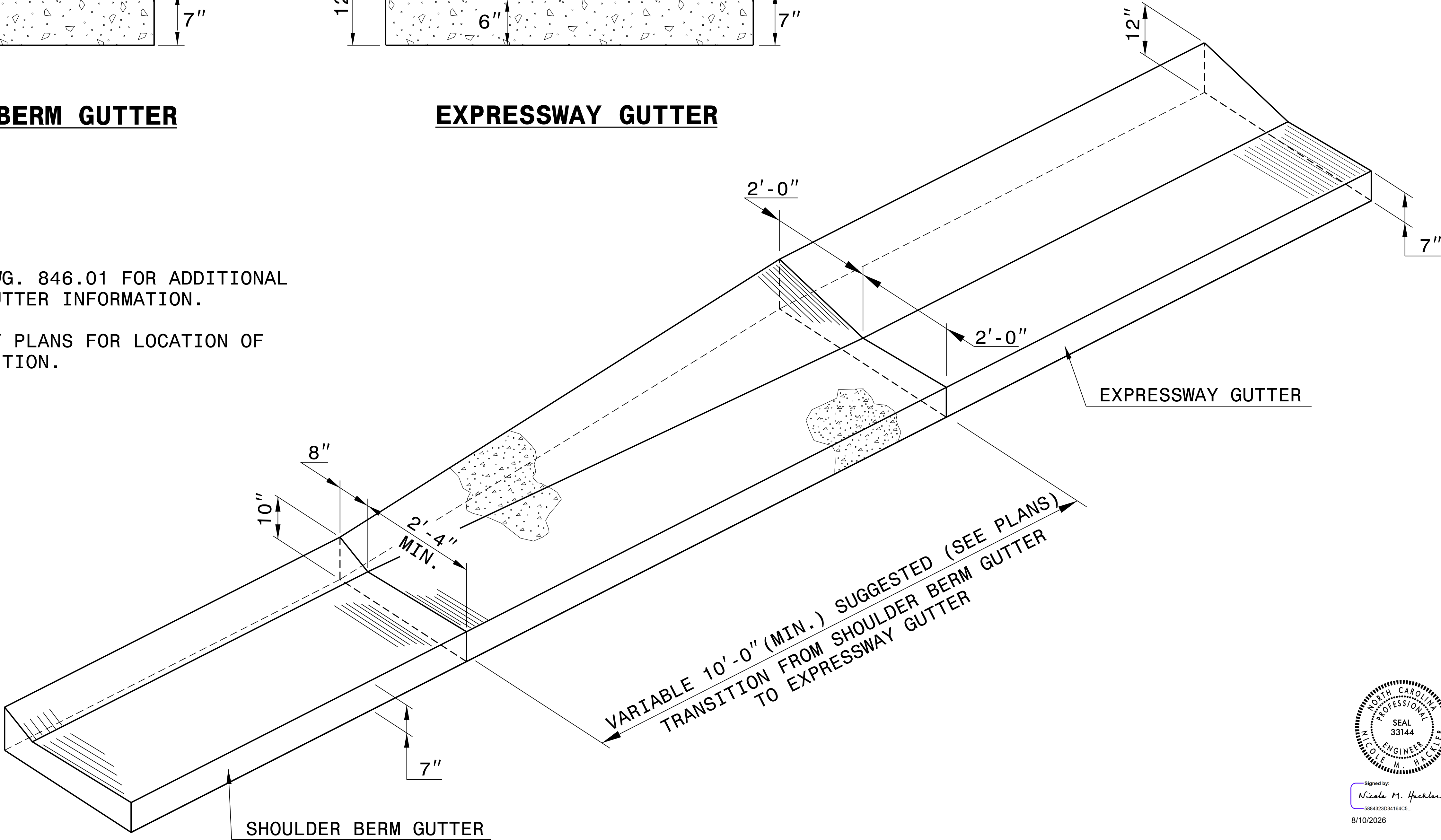
SHOULDER BERM GUTTER



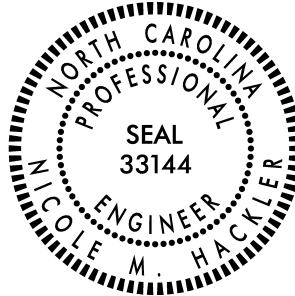
EXPRESSWAY GUTTER

NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL CURB AND GUTTER INFORMATION.

SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.



ISOMETRIC VIEW OF TRANSITION



Signed by:
Nicole M. Hucker
8/10/2026

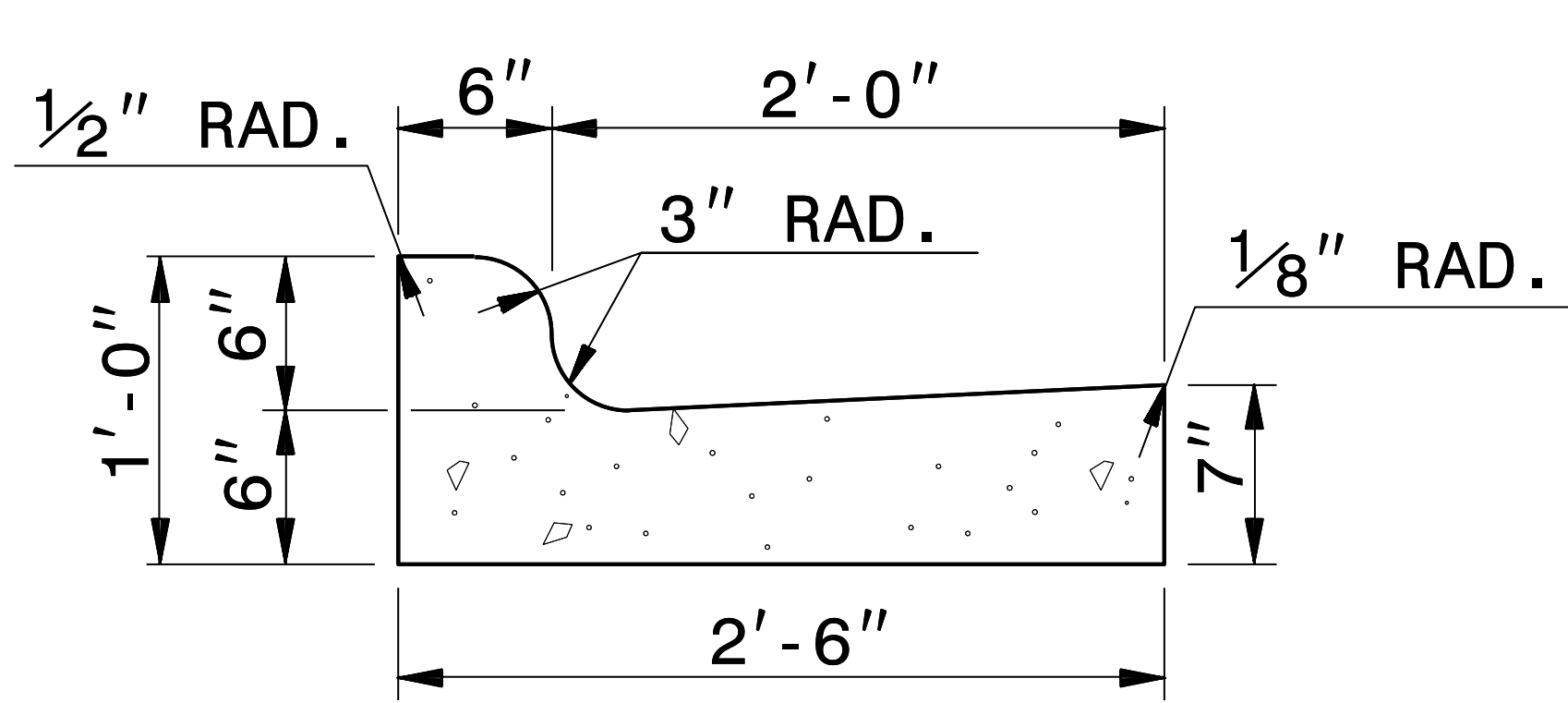
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS AND
DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119
**DETAIL OF SHOULDER BERM GUTTER
TO EXPRESSWAY GUTTER
TRANSITION SECTION**

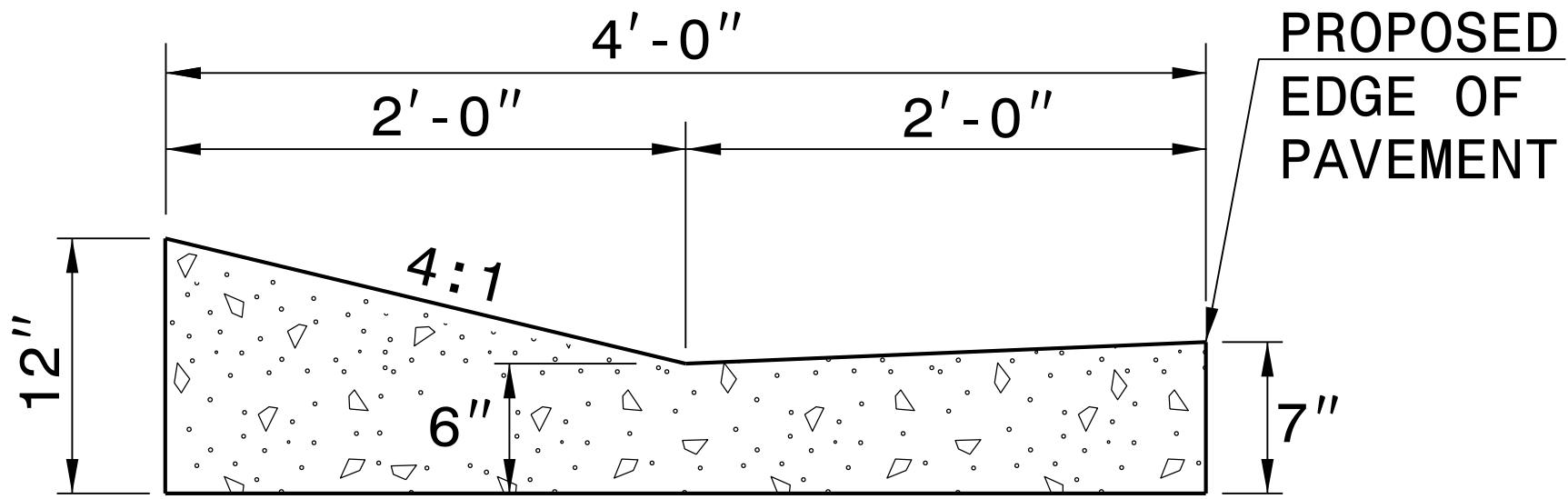
ORIGINAL BY: T.S.Spell DATE: 8-13-02
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: w:usr/details/stand/cgtransit.dgn

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	2C-2



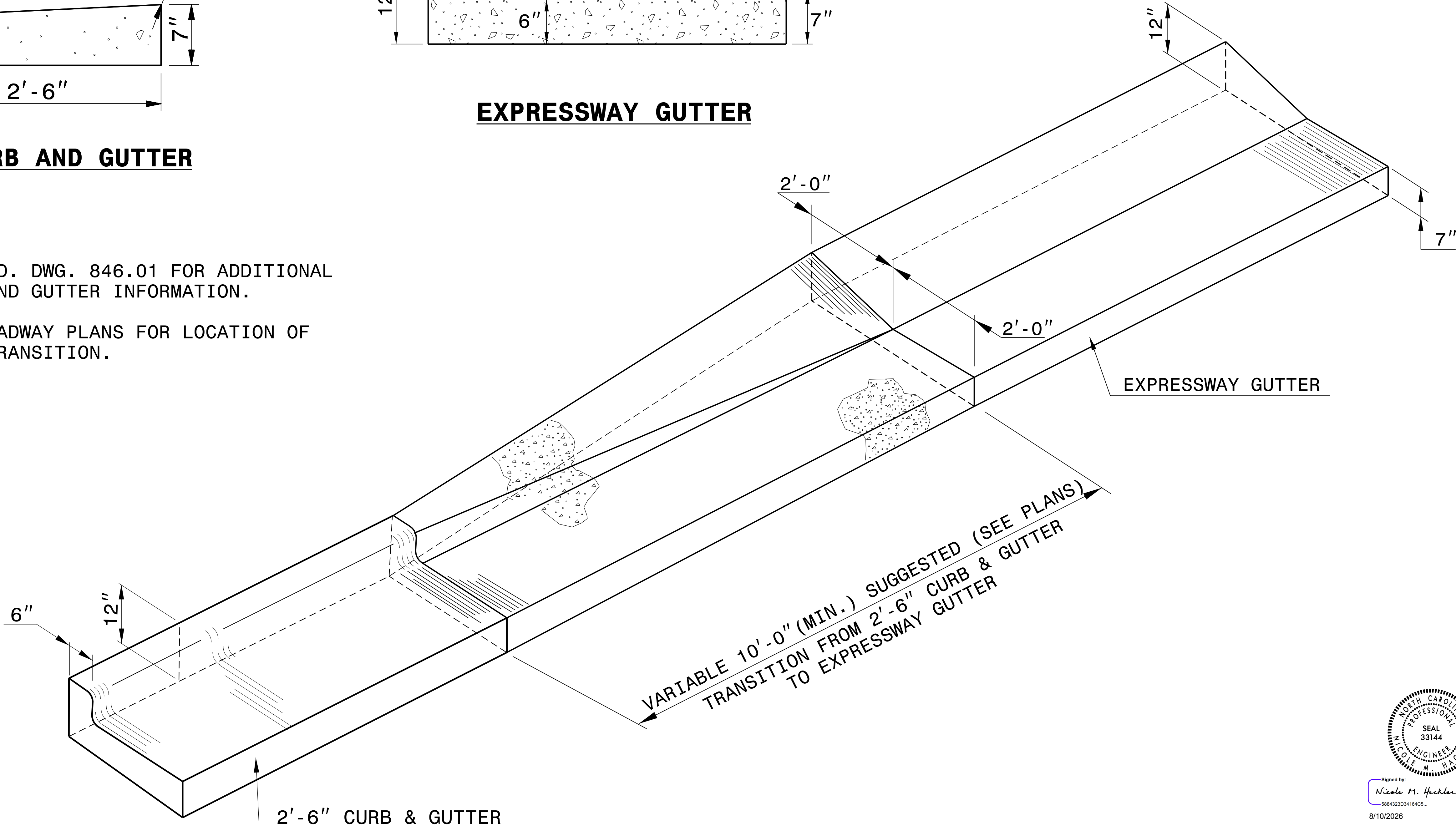
2'-6" CURB AND GUTTER



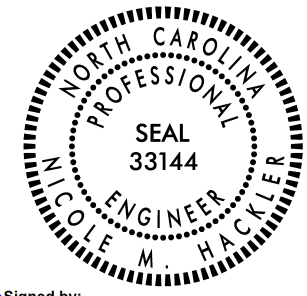
EXPRESSWAY GUTTER

NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL CURB AND GUTTER INFORMATION.

SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.



ISOMETRIC VIEW OF TRANSITION



Signed by:
Nicole M. Heckler
5884323034184CS...
8/10/2026

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
DETAIL OF 2'-6" CURB & GUTTER TO EXPRESSWAY GUTTER TRANSITION SECTION	
ORIGINAL BY: T.S.Spell	DATE: 8-13-02
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: wusr/details/stand/cgtransit.dgn	

05-OCT-2017 08:23
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JHoverton AT CSD-292595

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	2C-3
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

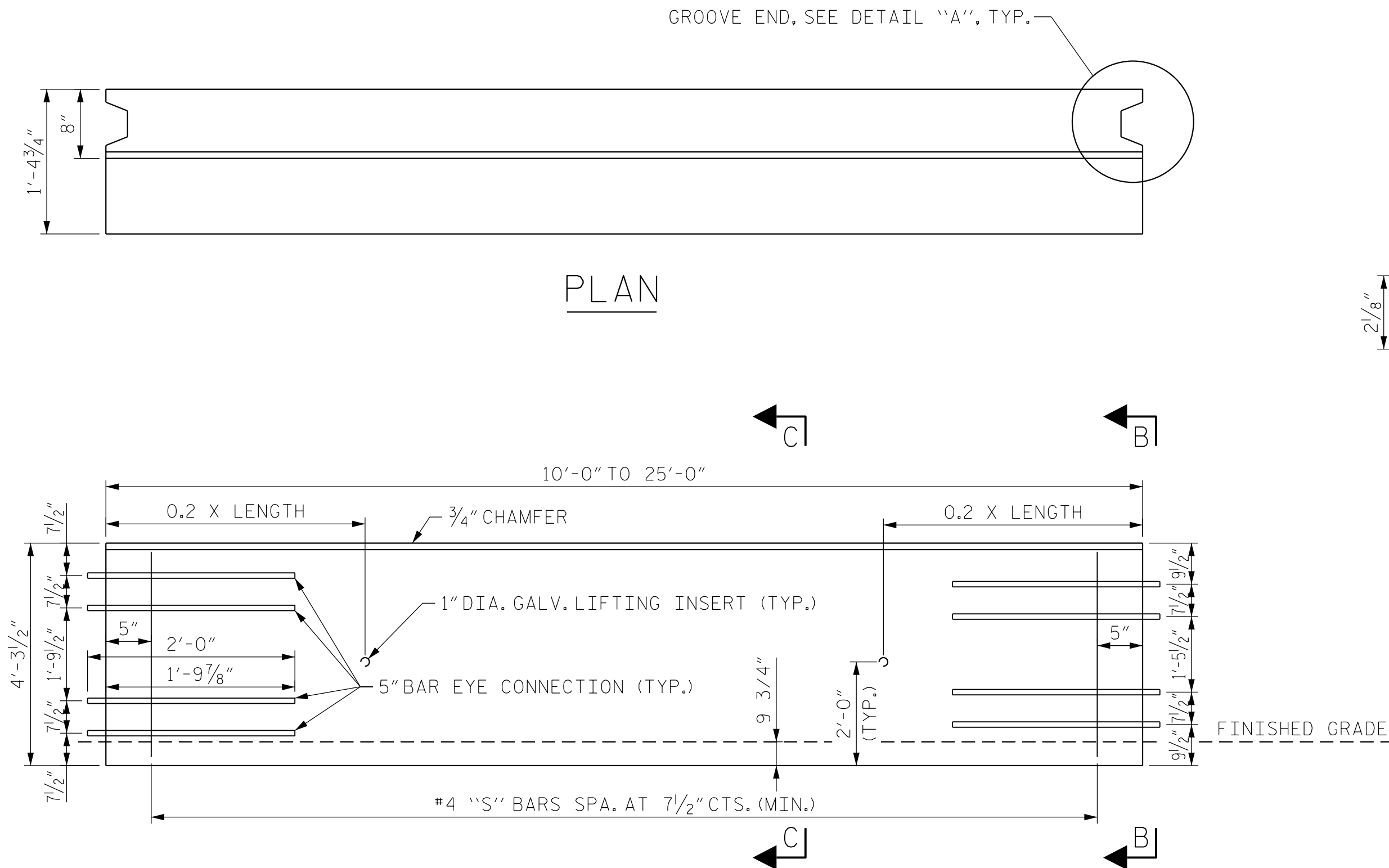


Signed by:
Nicole M. Heckler
588432303416405
8/10/2026

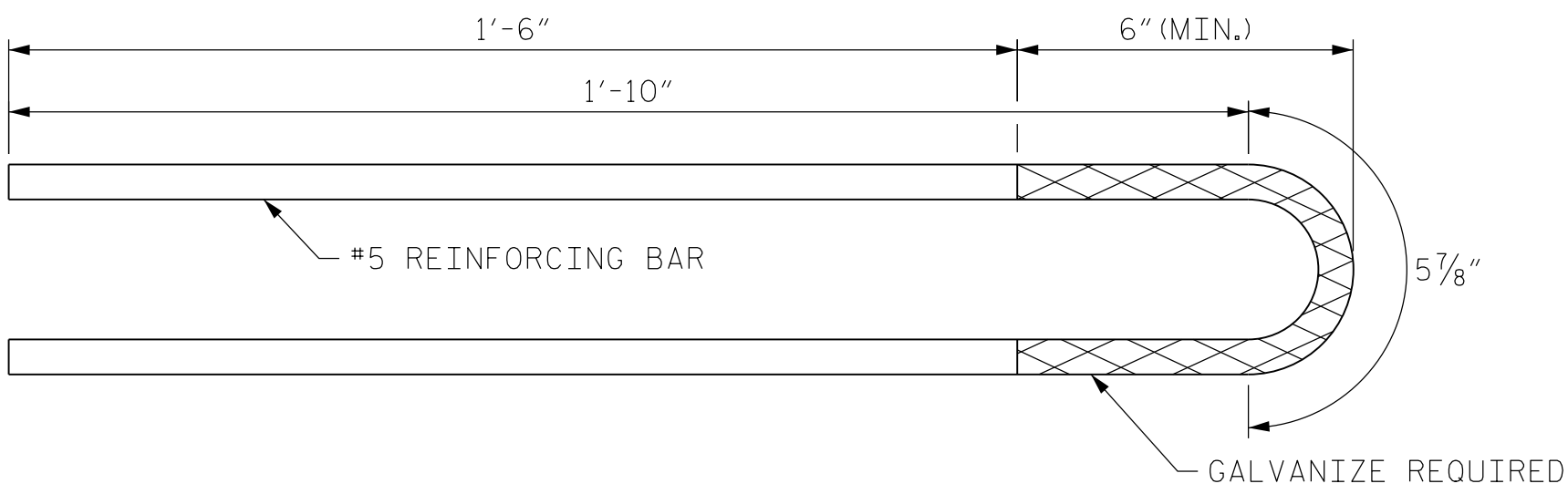
NOTES:

ALL PARTS OF CONNECTOR PIN ASSEMBLY SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153 SPECIFICATIONS.

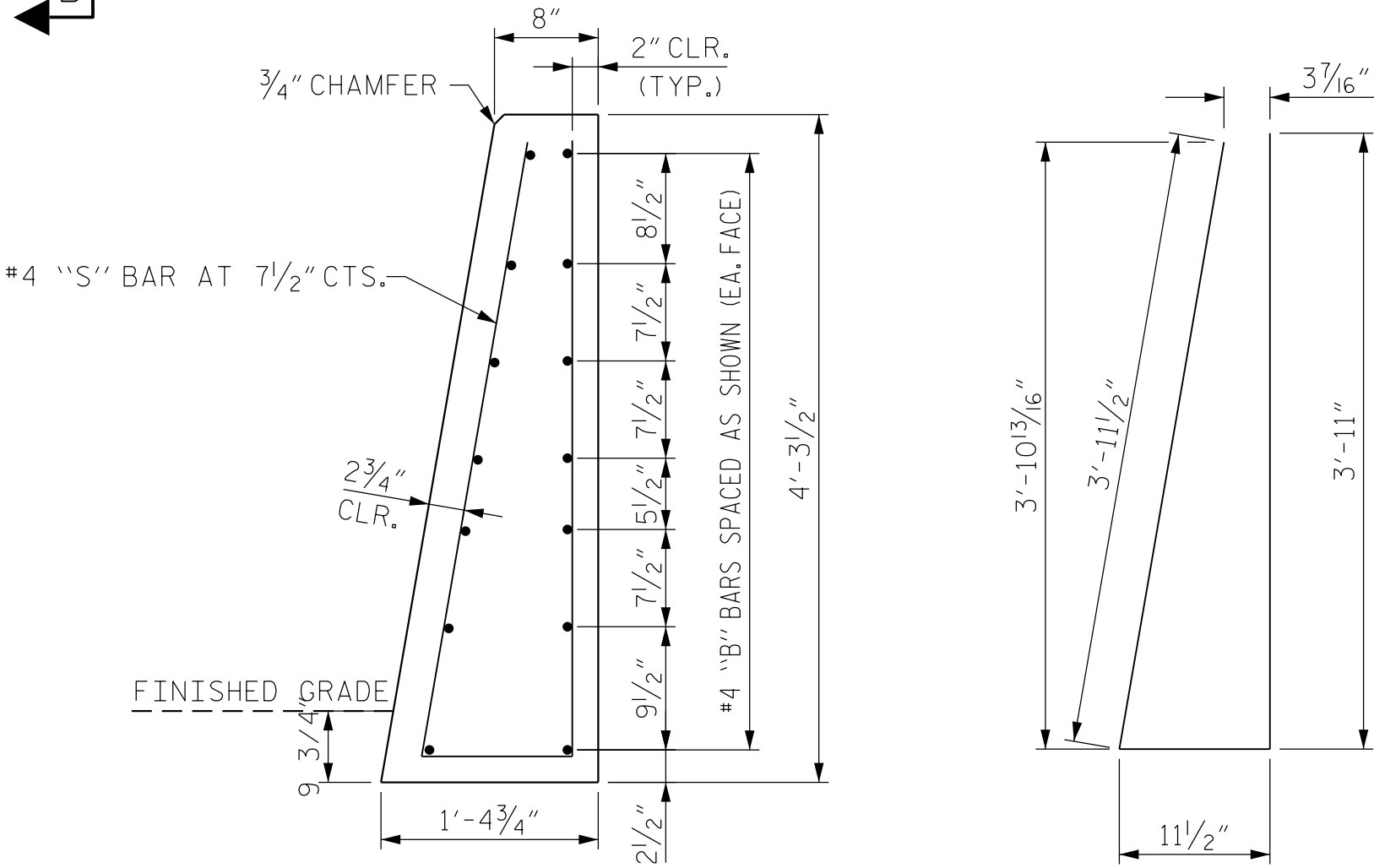
ALL CONCRETE IN PRECAST REINFORCED SINGLE FACE SINGLE SLOPE CONCRETE BARRIER RAIL SHALL BE CLASS AA.



FRONT ELEVATION MIDDLE BARRIER UNIT

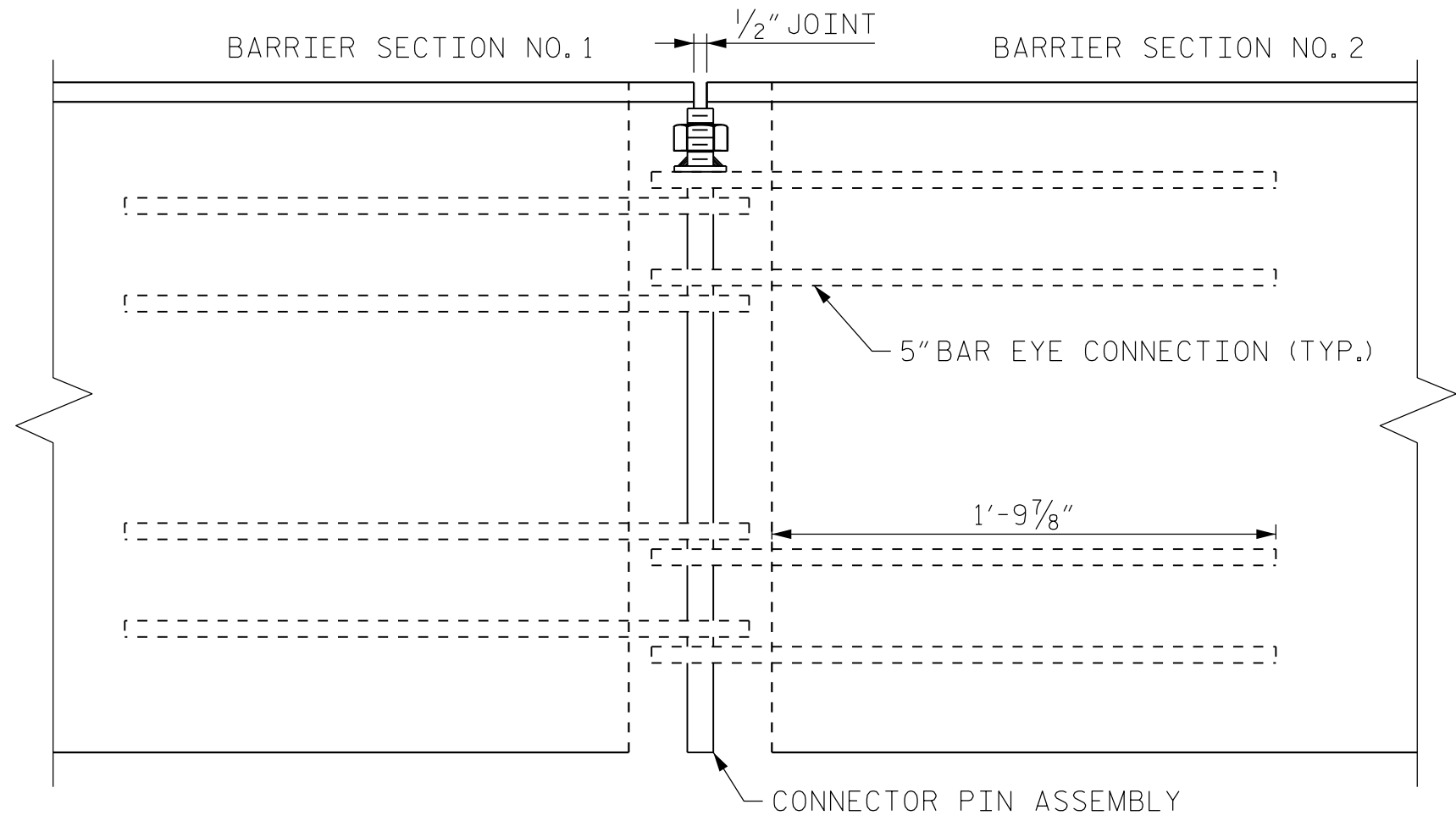


DETAIL OF REINFORCING EYE BAR

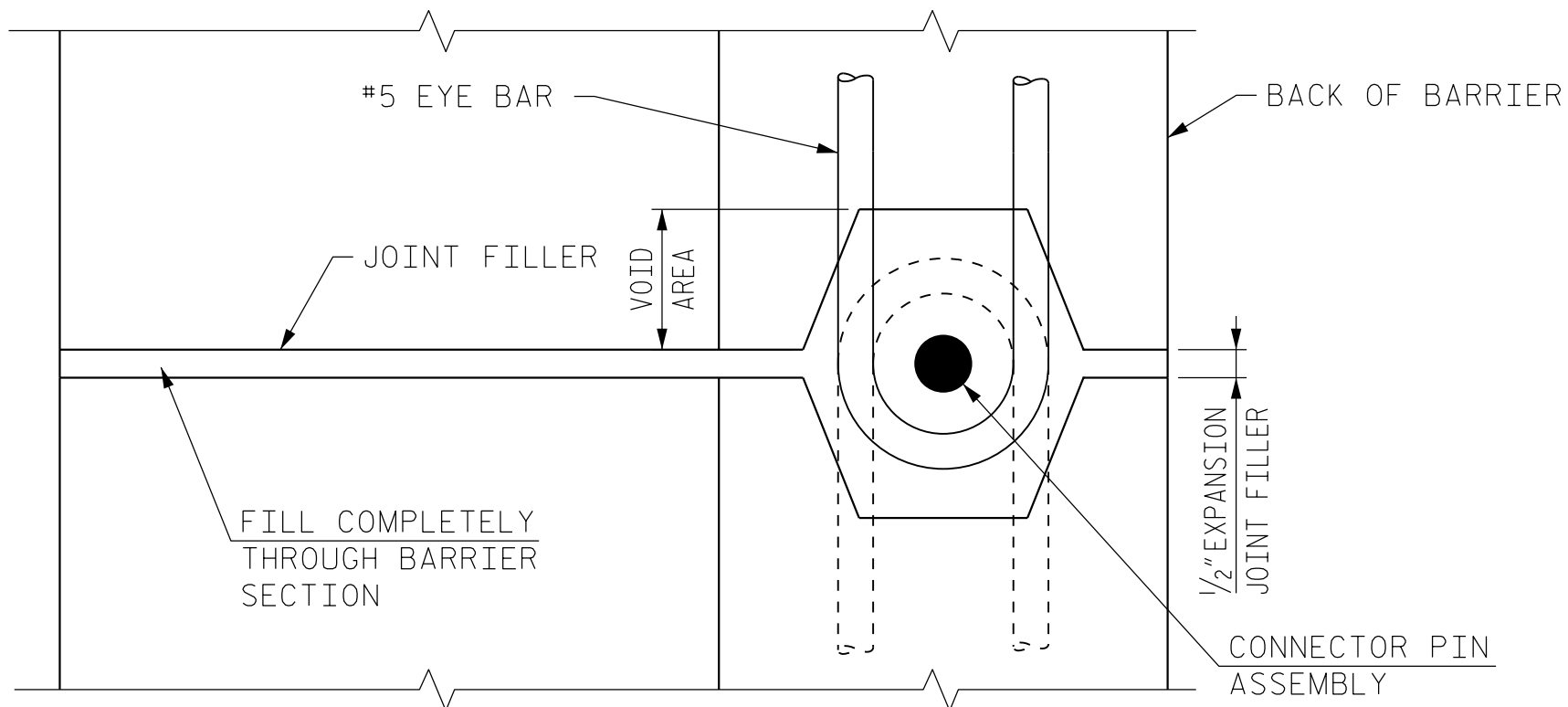


SECTION C-C

"S" BARS

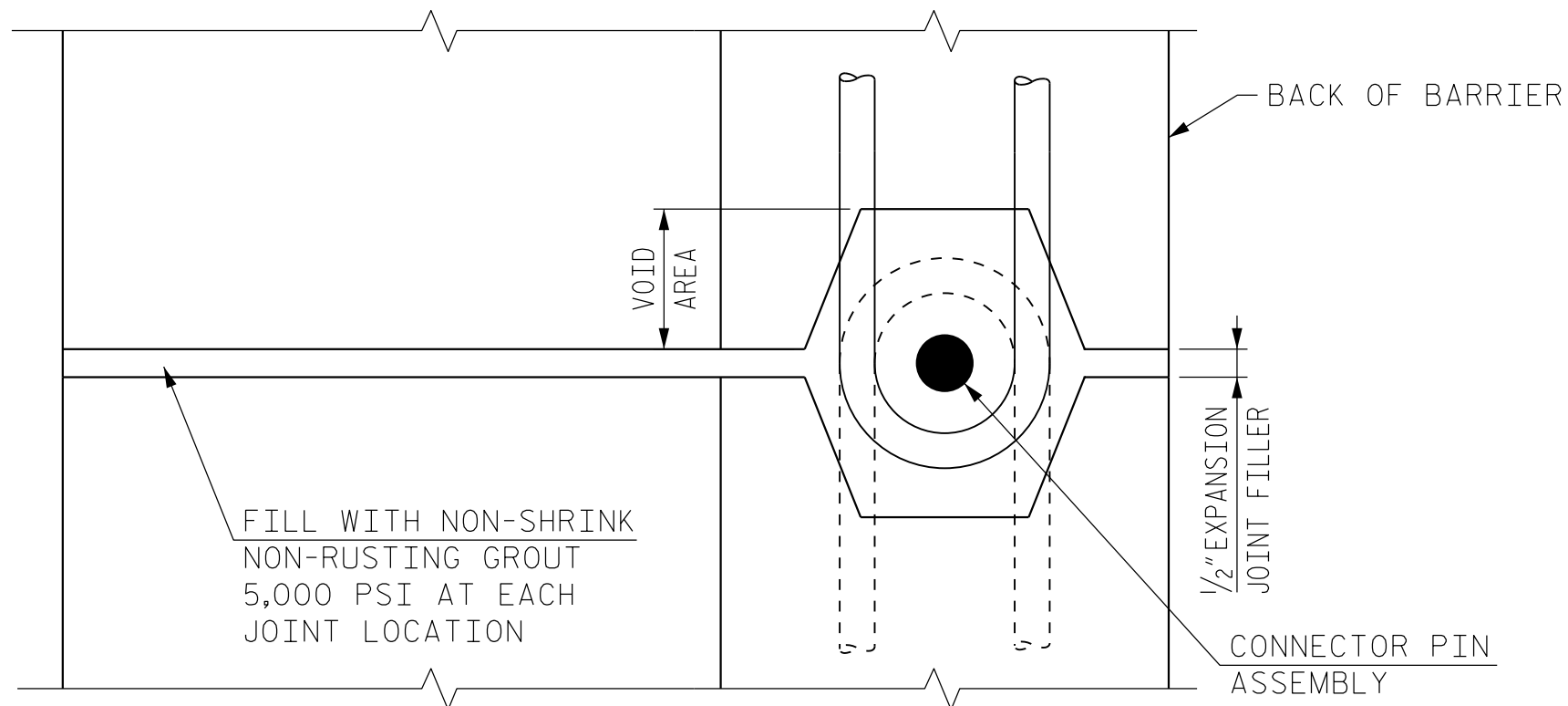


JOINT VIEW ELEVATION

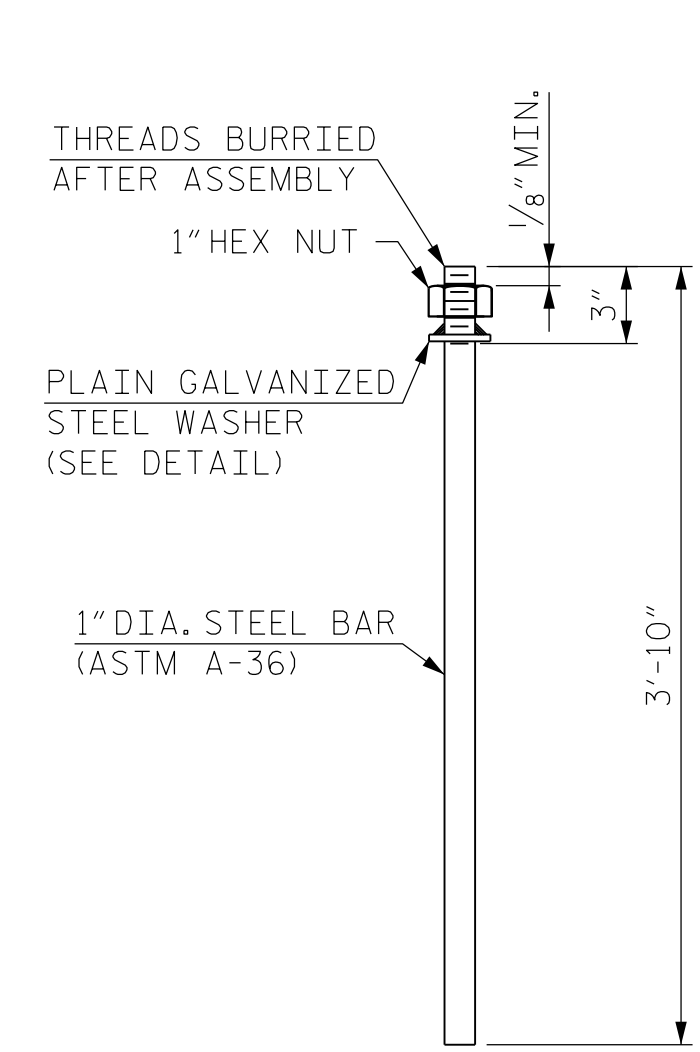


JOINT FILLER DETAIL

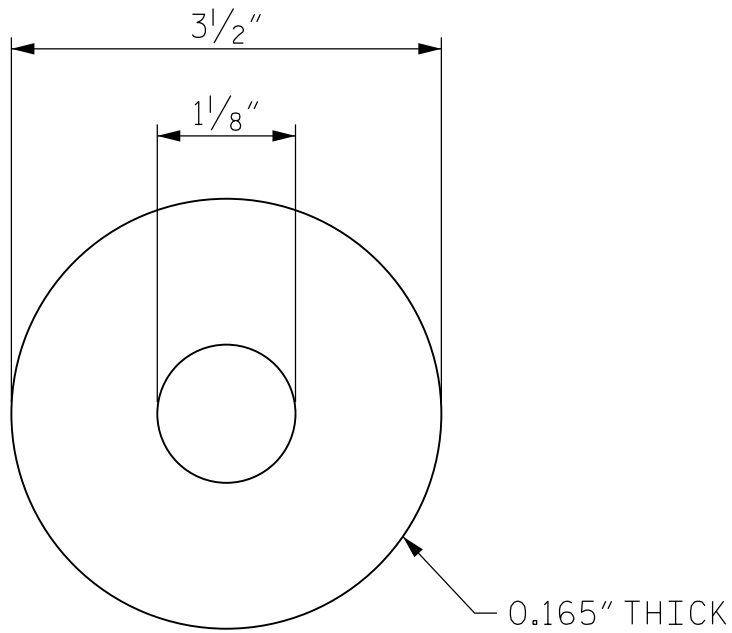
USE JOINT FILLER DETAIL AT 75 FT MAXIMUM SPACINGS



PLAN OF BONDED CONNECTION
OF PRECAST UNIT



CONNECTOR PIN
ASSEMBLY



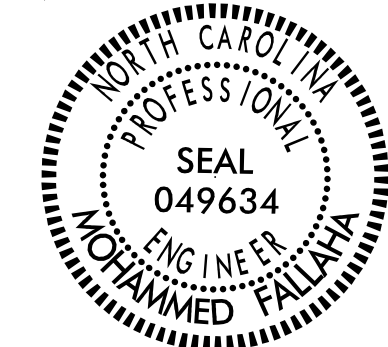
PLAIN GALVANIZED
STEEL WASHER FOR 1" PIN

CONTRACTS STANDARDS AND DEVELOPMENT UNIT		
Office 919-707-6950		FAX 919-250-4119
PRECAST REINFORCED SINGLE FACE SINGLE SLOPE CONCRETE BARRIER RAIL		
ORIGINAL BY: J. E. KEENE	DATE: APR 2019	
MODIFIED BY:	DATE:	
CHECKED BY:	DATE:	
FILE SPEC.:	kkempt/english/single face single slope barrier rail.dgn	

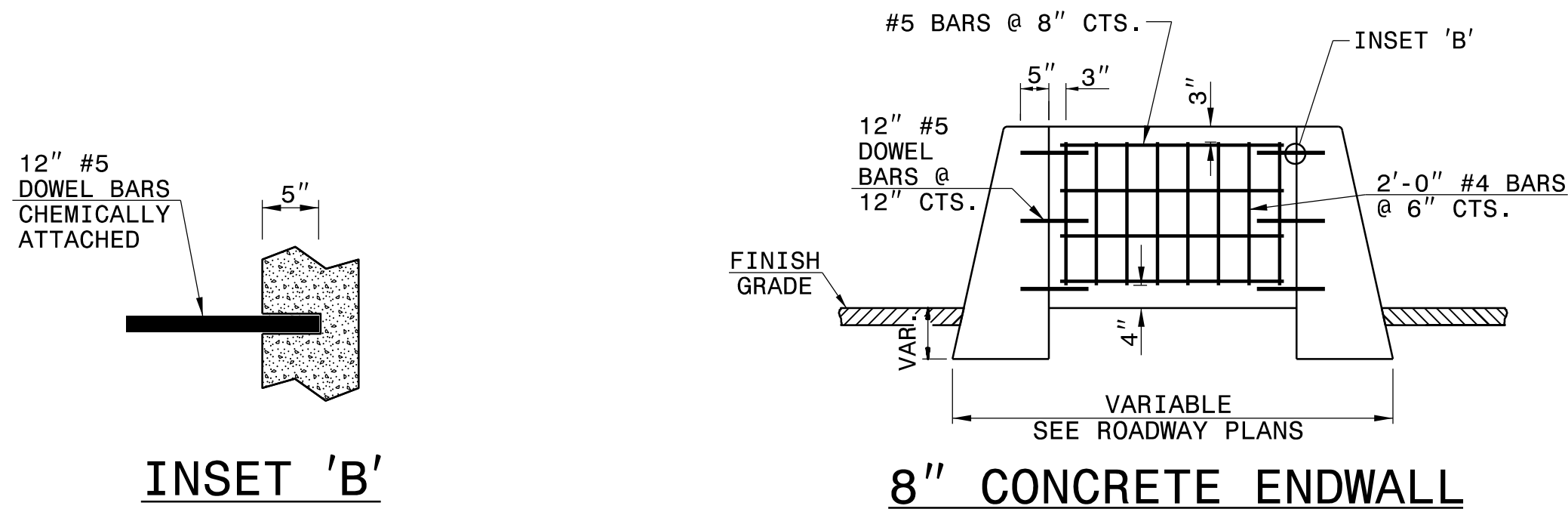
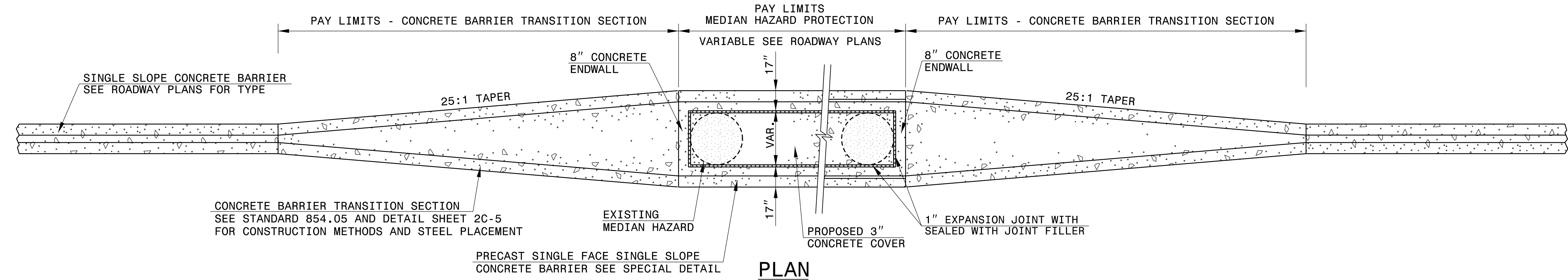
\$\$USERNAME\$\$
\$\$DATE\$\$
\$\$FILE\$\$

* DRAWING NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	2C-4
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



DocuSigned by:
Mohammed Fallaha
4D2664746C7D4E2
8/10/2026



GENERAL NOTES:

CONSTRUCT CONCRETE BARRIER WITH CLASS 'AA' CONCRETE. (SEE SPECIFICATIONS SECTION 854).

CONSTRUCT EXPANSION AND CONTRACTION JOINTS AS SHOWN IN STANDARD DRAWING 854.01.

SEAL EXPANSION JOINTS WITH JOINT FILLER. (SEE SECTION 1028 OF THE SPECIFICATIONS).

SEE SPECIAL DETAILS PERTAINING TO SINGLE SLOPE BARRIERS FOR CONSTRUCTION METHODS AND STEEL PLACEMENT.

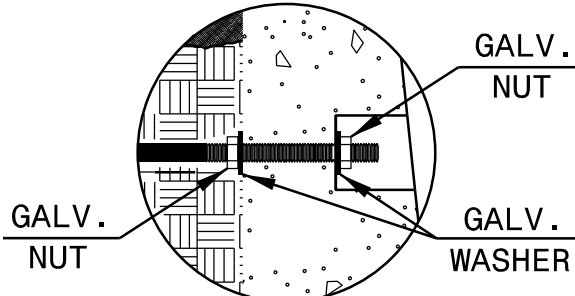
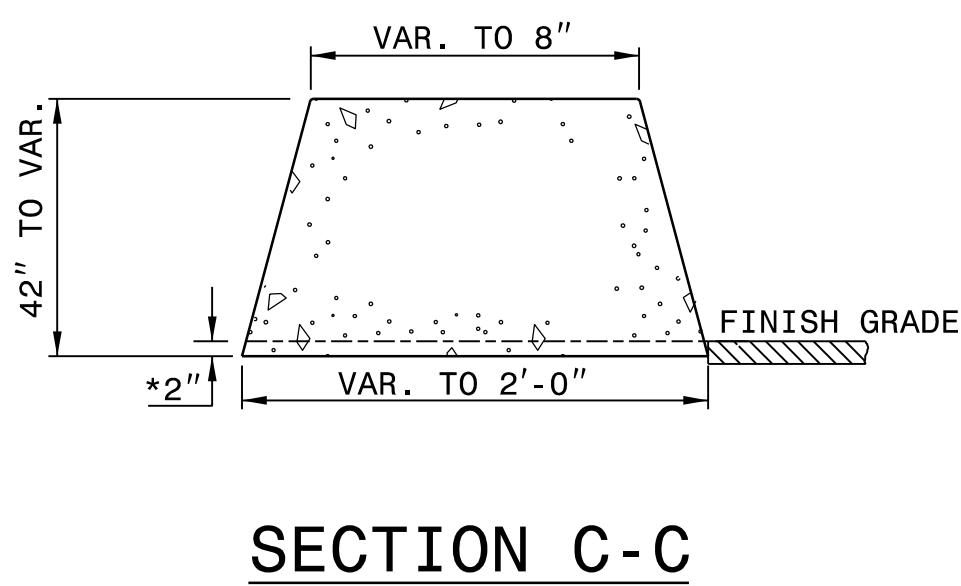
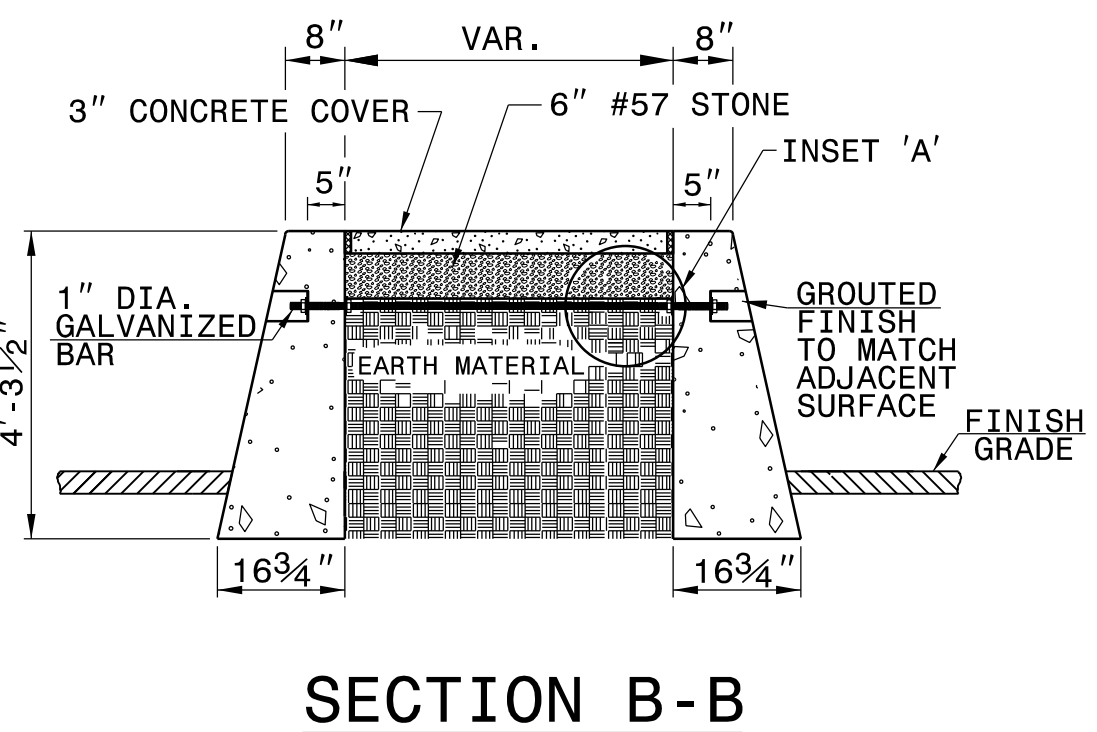
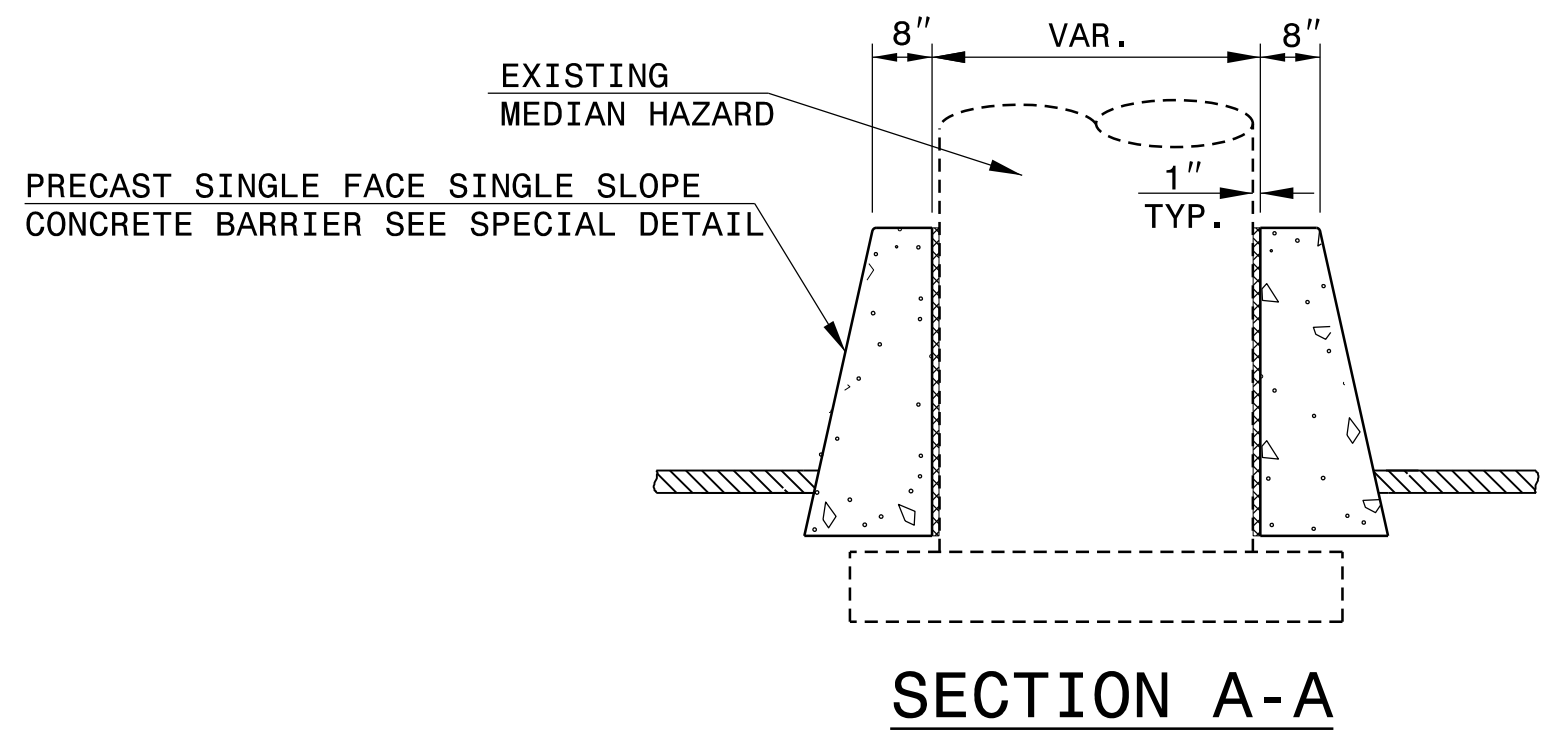
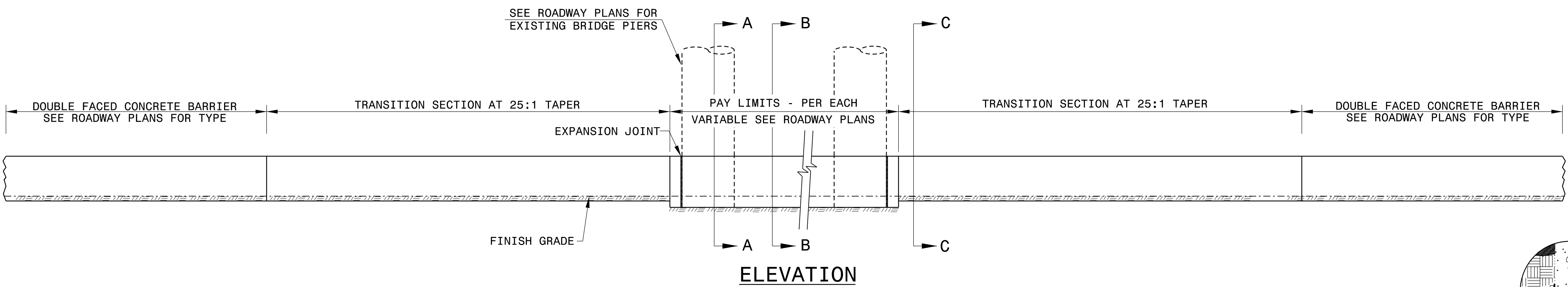
SUBMIT ALTERNATIVE METHODS FOR STEEL FABRICATION PLACEMENT FOR REVIEW AND APPROVAL.

SEE STANDARD DRAWING 854.05 FOR STEEL LAYOUT OF TRANSITION BARRIER.

*THE 2" DIMENSION FROM FINISH GRADE TO THE BASE IS A MINIMUM DIMENSION.

INSET FIRST 1" DIA. GALVANIZED BAR 12'-6" AND SPACE THE REMAINING 1' BARS AT 25'-0".

USE AN APPROVED BONDING SYSTEM IN ACCORDANCE WITH SECTION 1081 OF THE STANDARD SPECIFICATIONS.

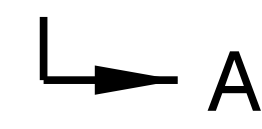


INSET 'A'

MEDIAN HAZARD PROTECTION

ORIGINAL BY: E.E. WARD	DATE: 7-28-03
MODIFIED BY: K.A. KEMPF	DATE: 5-08-19
CHECKED BY:	DATE:
FILE SPEC.: brittenglishguardrailsingle slope concrete barrier.dgn	

8/4/2026
12513AC_rdy_psh02C-4.dgn
mohammed.fallaha



3" CONCRETE COVER

6" #57 STONE

8"

5"

INSET 'A'

1" DIA. 4'-0" GALVANIZED BAR

EARTH MATERIAL

ROUTED FINISH TO MATCH ADJACENT SURFACE

FINISH GRADE

VAR.

16' 3/4"

16' 3/4"

Detailed description: This is a cross-sectional diagram of a bridge pier. The pier has a trapezoidal shape with a central rectangular core. The core is filled with 'EARTH MATERIAL' and is surrounded by a layer of '6" #57 STONE'. This stone layer is further enclosed by a '3" CONCRETE COVER'. A horizontal '1" DIA. 4'-0" GALVANIZED BAR' runs through the center of the pier. On the right side, a circular inset labeled 'INSET A' shows a detail of the 'ROUTED FINISH TO MATCH ADJACENT SURFACE'. The pier is shown sitting on a foundation with 'FINISH GRADE' indicated on both sides. Dimensions are provided for various parts: the top width is 8" with a 5" offset from the center; the bottom width is 16' 3/4" on each side; and the height of the stone layer is 6". A 'VAR.' (variable) dimension is shown for the foundation depth.

2'-6" #5 BARS @ 8" CTS.

5"

3"

3"

INSET 'B'

12" #5 DOWEL BARS @ 12" CTS.

2'-0" #4 BARS @ 6" CTS.

FINISH GRADE

VAR.

4"

VAR. (SEE PLANS)

8" ENDWALL

MIN. 25:1 TRANSITION

PAY LIMITS OF CONCRETE BARRIER TRANSITION

TYPE I SINGLE SLOPE RAIL

SINGLE FACE SINGLE SLOPE BARRIER RAIL

REFERENCE STATION (SEE PLANS)

TRANSITION FROM SINGLE FACE SINGLE SLOPE

12" #5
DOWEL BARS
CHEMICALLY
ATTACHED

5"

INSET 'B'

ORIGINAL BY:	T.S.Spell	DATE:	2-14-00
MODIFIED BY:	K.A.Kempf	DATE:	5-08-19
CHECKED BY:		DATE:	
FILE SPEC.:	details/nbritt/english/guardrail/single slope concrete barrier.dgn		