

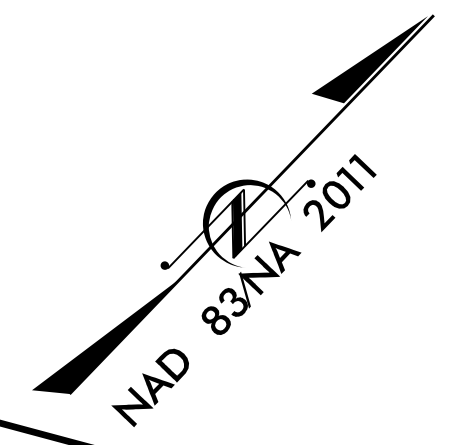
09/08/2019

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**WAKE COUNTY**

**LOCATION: US 401 (FAYETTEVILLE RD) FROM SR 1467 /2839  
(ALLEN ST) TO NORTH OF SR 1010 (TEN-TEN RD)**

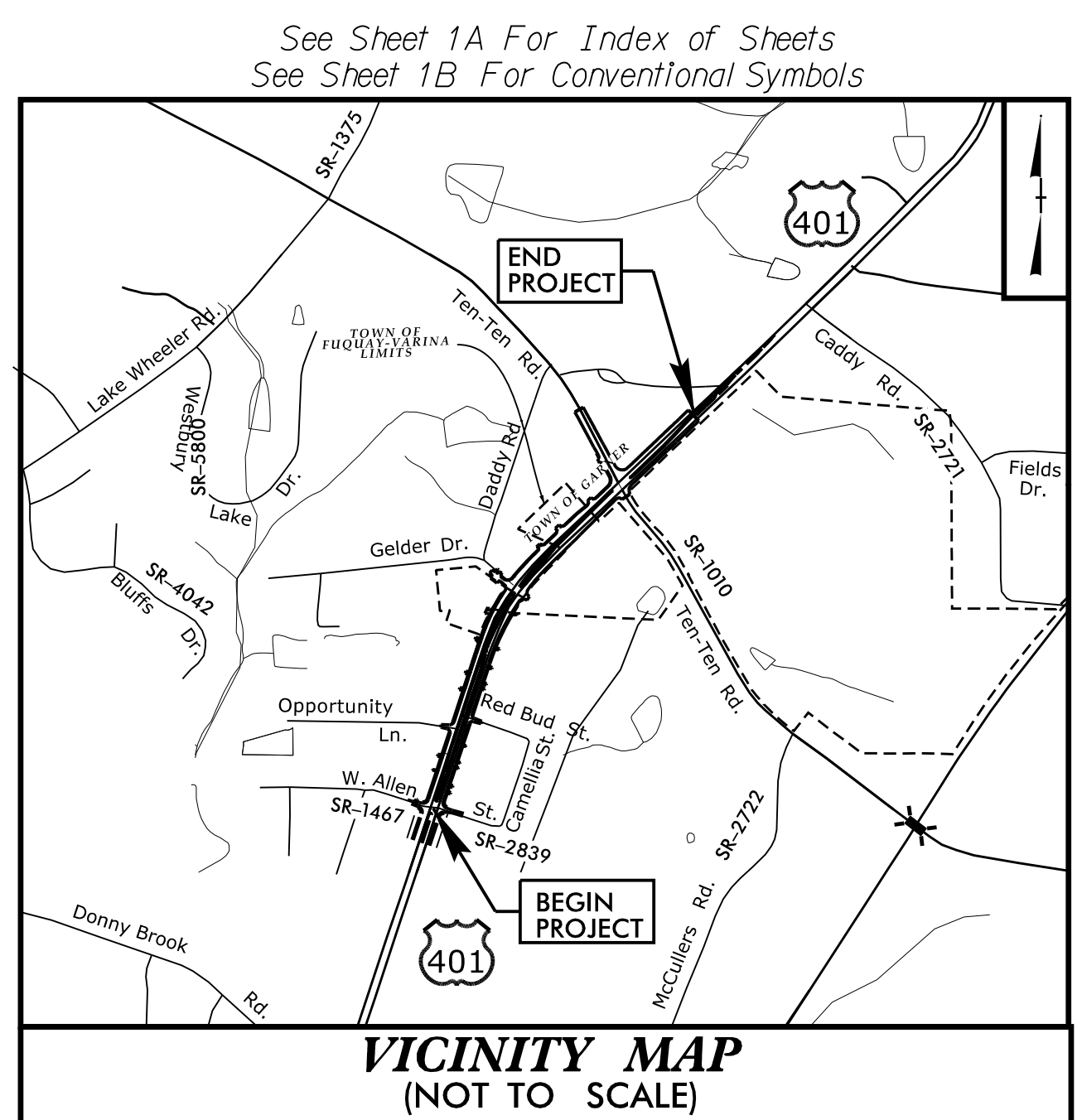
**TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND SIGNALS**



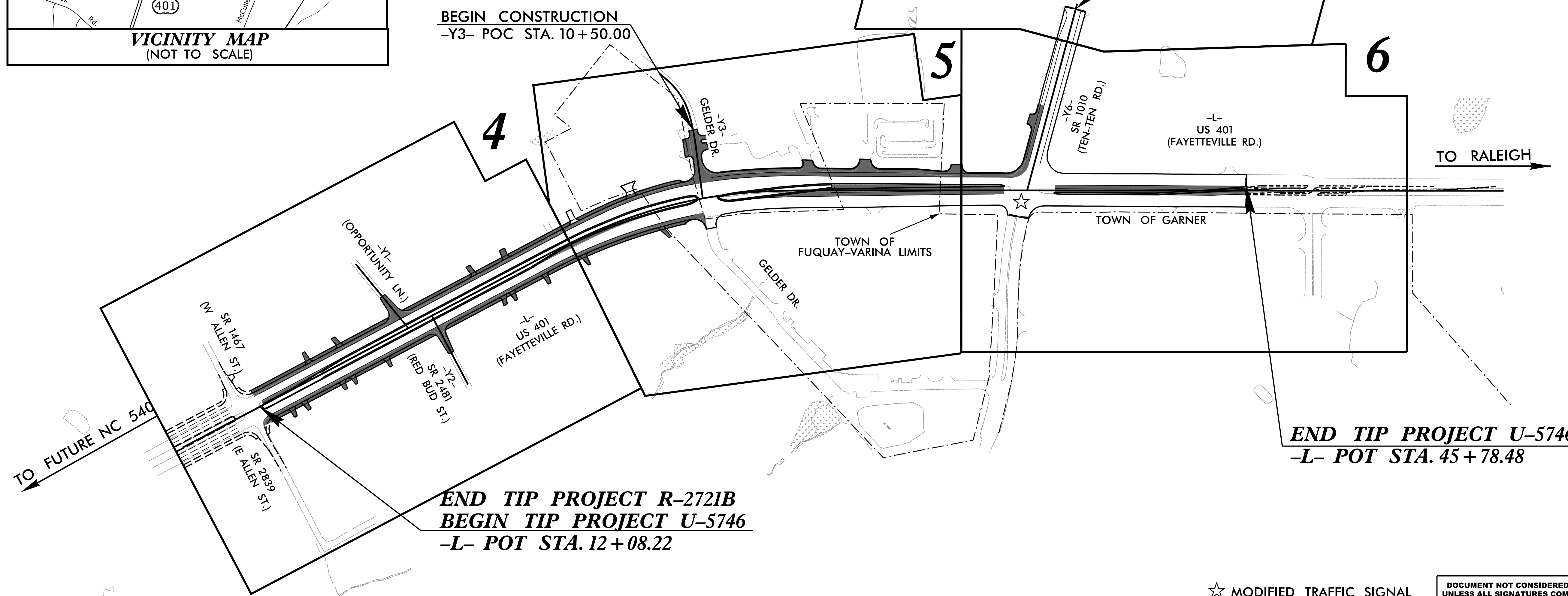
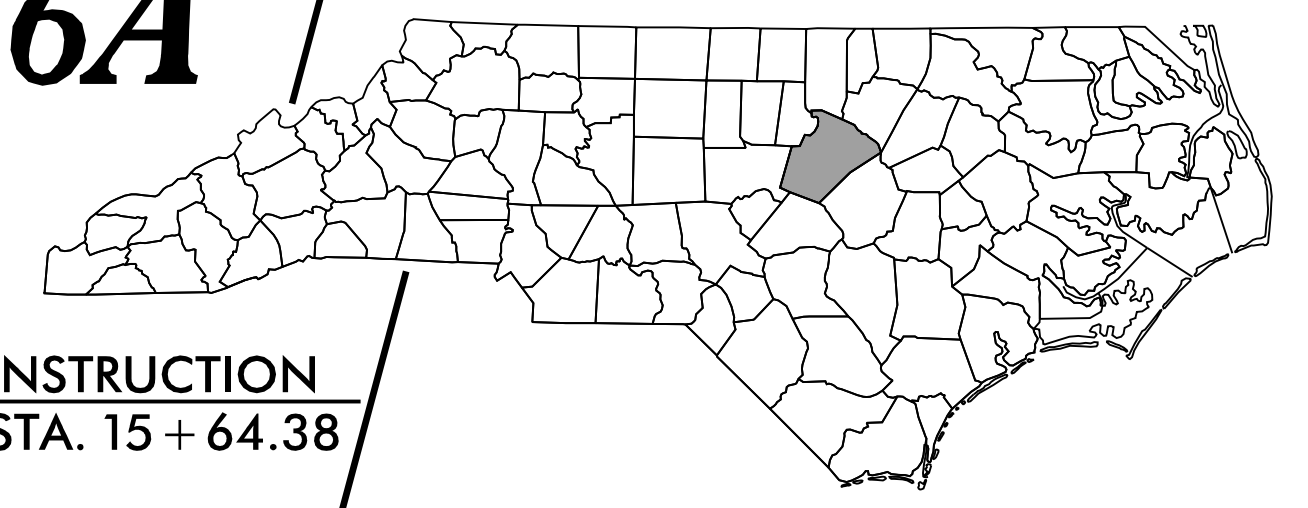
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5746	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
54032.1.1	N/A	P.E.	
54032.2.1	N/A	ROW	
54032.2.2	N/A	UTIL.	
54032.3.1	N/A	CONSTR.	

**TIP PROJECT: U-5746**

**CONTRACT: C204968**



**6A**



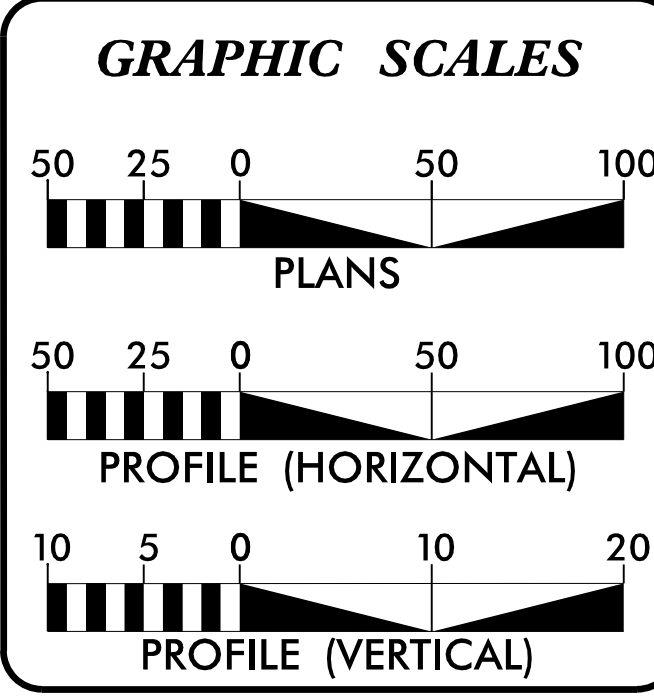
**END TIP PROJECT R-2721B  
BEGIN TIP PROJECT U-5746  
-L- POT STA. 12 + 08.22**

**END TIP PROJECT U-5746  
-L- POT STA. 45 + 78.48**

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT

☆ MODIFIED TRAFFIC SIGNAL

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**DESIGN DATA**

ADT 2024 =	45,100
ADT 2044 =	64,000
K =	9 %
D =	70 %
T =	4 % *
V =	50 MPH
(* TTST 1% + DUAL 3%)	
FUNC CLASS =	RURAL ARTERIAL STATEWIDE TIER

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT U-5746 =	0.638 MILES
TOTAL LENGTH TIP PROJECT U-5746 =	0.638 MILES

Prepared by the Office of:

**HDR** HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

2024 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
JANUARY 24, 2020

**LETTING DATE:**  
NOVEMBER 19, 2024

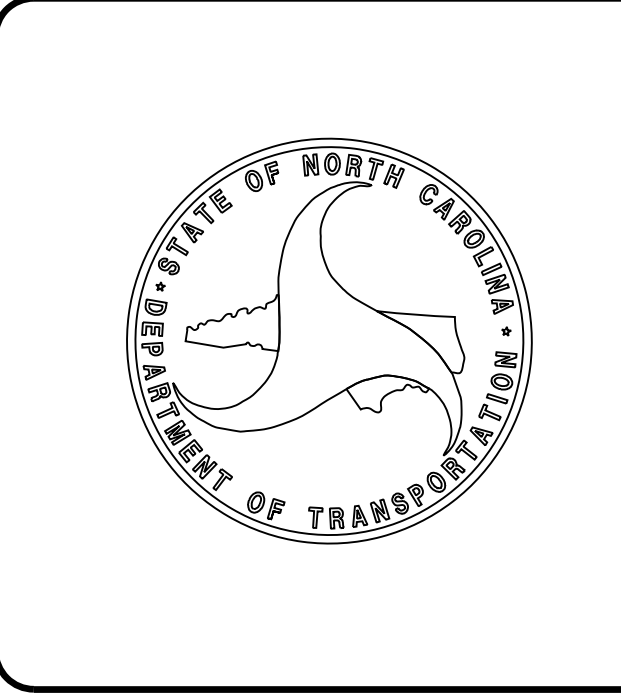
<b>CASEY HARRIS, PE</b> PROJECT ENGINEER
<b>NIDHI SONAR</b> PROJECT DESIGN ENGINEER
<b>BEN UPSHAW, PE</b> NCDOT CONTACT

**HYDRAULICS ENGINEER**

SEAL 053377  
9/9/2024  
SIGNATURE: Michael McNamara P.E.

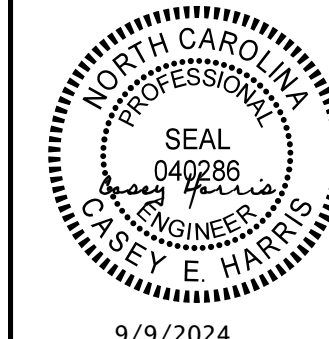

**ROADWAY DESIGN ENGINEER**

SEAL 040286  
9/9/2024  
SIGNATURE: Casey Harris P.E.



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 USER: CHARRIS  
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 TIME: 9:01:20 AM  
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8/17/99

PROJECT REFERENCE NO. <b>U-5746</b>	SHEET NO. <b>1A</b>
ROADWAY DESIGN ENGINEER	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

**INDEX OF SHEETS**

**2024 ROADWAY ENGLISH STANDARD DRAWINGS**

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-4	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2C-1	TRANSITION FROM 2'-6" CURB & GUTTER TO VALLEY GUTTER
2C-2	CONCRETE SIDEWALK DETAIL IN LIEU OF STANDARD
3B-1	SUMMARY OF EARTHWORK, PAVEMENT REMOVAL SUMMARY AND GUARDRAIL SUMMARY
3D-1 THRU 3D-2	SUMMARY OF DRAINAGE QUANTITIES
3G-1	GEOTECHNICAL SUMMARIES
3P-1	PARCEL INDEX SHEET
4 THRU 6	PLAN SHEETS
7 THRU 9	PROFILE SHEETS
RW01 THRU RW06B	RIGHT OF WAY TITLE SHEET, SURVEY CONTROL SHEETS, PROPOSED ALIGNMENT CONTROL SHEETS, RIGHT OF WAY & EASEMENT CONTROL SHEETS, RIGHT OF WAY SHEETS
TMP-1 THRU TMP-11	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-4	PAVEMENT MARKING PLANS
EC-1 THRU EC-9	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-7	SIGNING PLANS
SIG-1.0 THRU SIG-4.3	SIGNAL PLANS
SIG.M1A THRU SIG.M9	STANDARD DRAWINGS FOR METAL POLES
UC-1 THRU UC-5	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-4	UTILITIES BY OTHERS PLANS
X-0	CROSS-SECTION INDEX SHEET
X-0A	CROSS-SECTION EARTHWORK VOLUME SUMMARY
X-1 THRU X-23	CROSS-SECTIONS

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.01	Guide for Grading Subgrade - Interstate and Freeway
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
560.02	Method of Shoulder Construction - High Side of Superelevated Curve - Method II
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
815.02	Subsurface Drain
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.22	Frames and Wide Slot Sag Grates
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.29	Frames and Narrow Slot Flat Grates
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.04	Street Turnout
848.06	Curb Ramp
852.01	Concrete Islands
852.06	Method for Placement of Drop Inlets in Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation

EFF. 01-16-2024  
REV.

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:

**GENERAL NOTES**

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 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 & 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.

SUBSURFACE DRAINS:

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

STREET TURNOUT:

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

GUARDRAIL:

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

TEMPORARY SHORING:

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

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY, AT&T, MCNC, SEGRA, SPECTRUM, NCDOT ITS, DOMINION ENERGY, TOWN OF FUQUAY-VARINA PUBLIC UTILITIES DEPARTMENT WATER & SEWER.

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

RIGHT-OF-WAY MARKERS:

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

CURB RAMPS


CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
USER: CHARRIS  
FILE: NCDOT\2016.NCDOT\_Centrol.Reg.Div.Plan\_Design\_0m-Coll.M.UU-5746\_Task\_Order\_3\6.0.CAD.BIM\6.2.WIP\U-5746\_TO\_3\Roadway\Proj\U5746\_RDY\_TSH.dgn

REVISIONS

PENTABLE: NCDOT\_pshp.plt.tbi  
DATE: 9/5/2024  
TIME: 3:59:21 PM

# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

PROJECT REFERENCE NO.	SHEET NO.
U-5746	1B
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

### BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	-----
Property Monument	□ ECM
Parcel/Sequence Number	① 23
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 - ☠
Potential Contamination Area: Soil	☠ - S - ☠
Known Contamination Area: Water	☠ - W - ☠
Potential Contamination Area: Water	☠ - W - ☠
Contaminated Site: Known or Potential	☠ ?

### BUILDINGS AND OTHER CULTURE:

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

### HYDROLOGY:

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

### RAILROADS:

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

### RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite R/W Marker	-----
New Control of Access Line with Concrete C/A Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

### ROADS AND RELATED FEATURES:

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

### VEGETATION:

Single Tree	☼
Single Shrub	☼

Note: Not to Scale

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

Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	-----

### EXISTING STRUCTURES:

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

### UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	-----
H-Frame Pole	-----
U/G Power Line LOS B (S.U.E.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

### TELEPHONE:

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

### WATER:

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

### TV:

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

### GAS:

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

### SANITARY SEWER:

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

### MISCELLANEOUS:

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

REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: \

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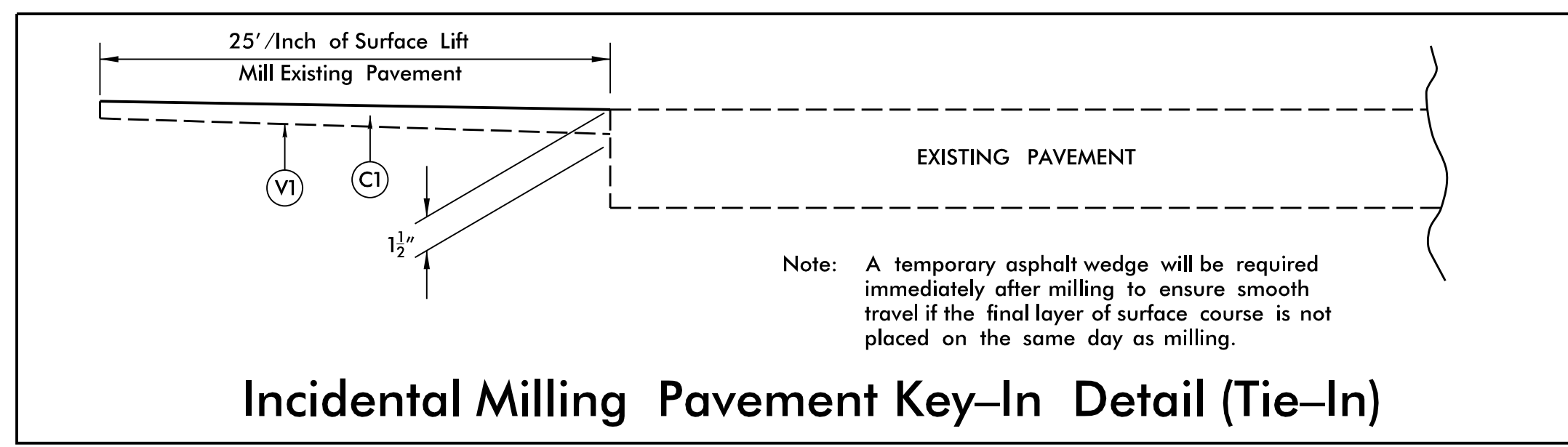
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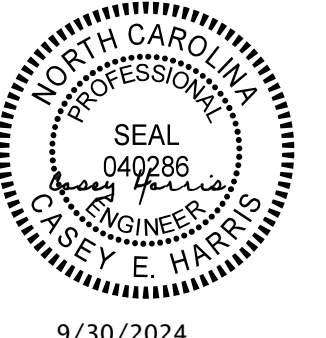


## PAVEMENT SCHEDULE

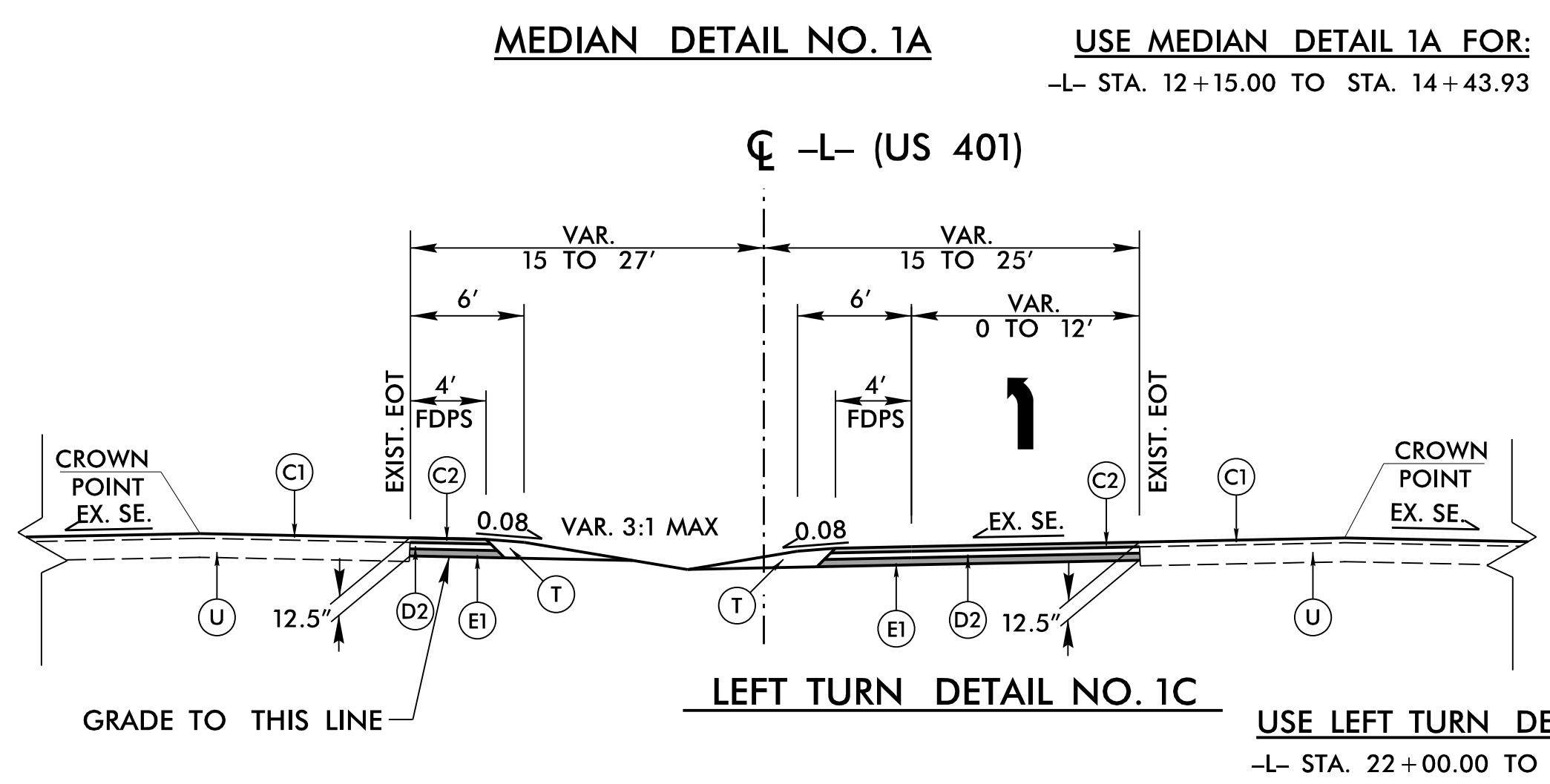
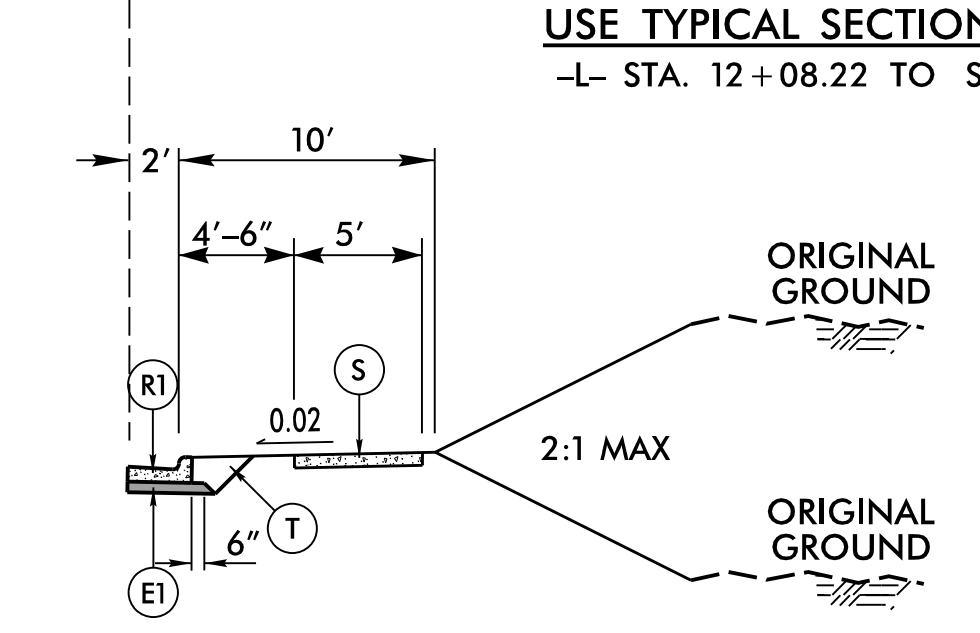
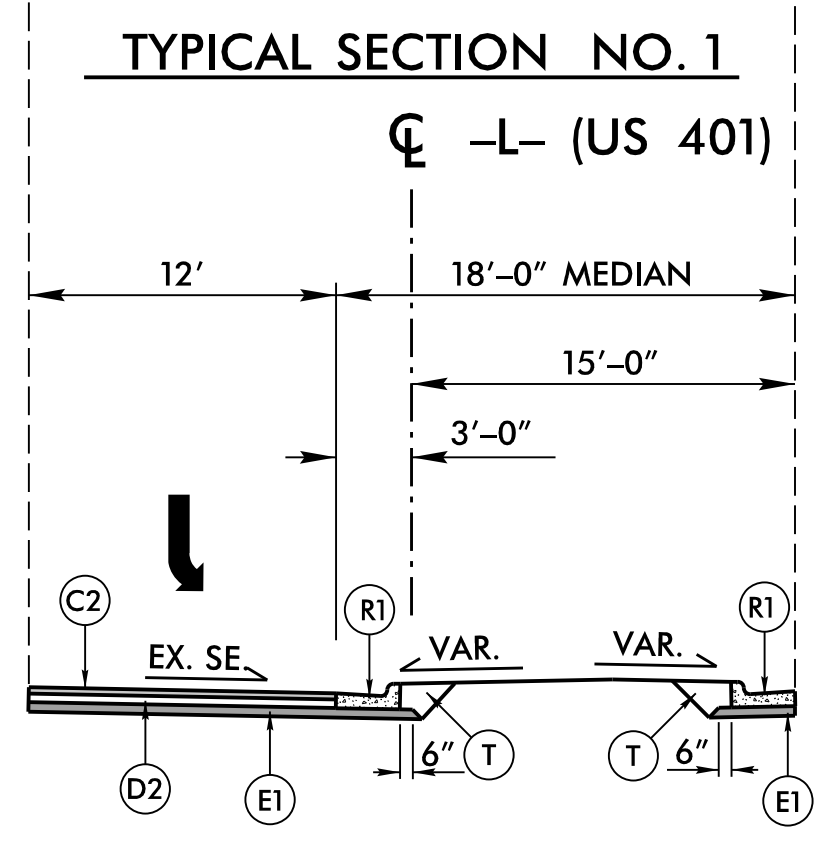
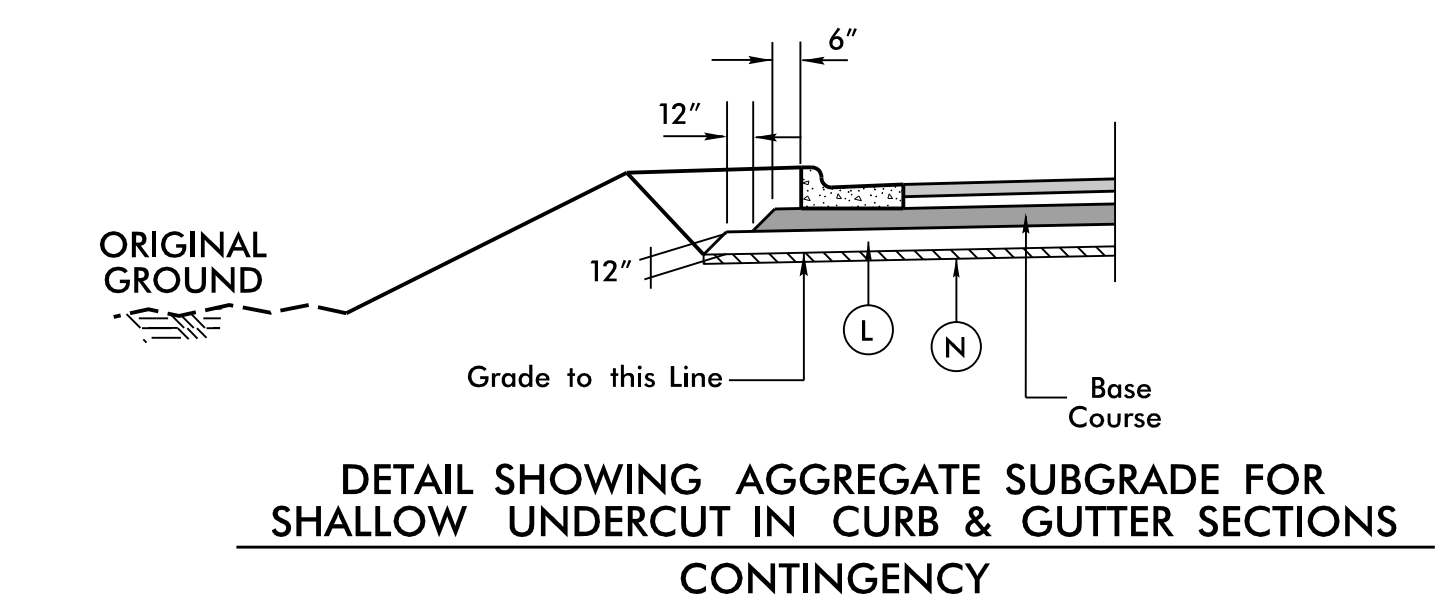
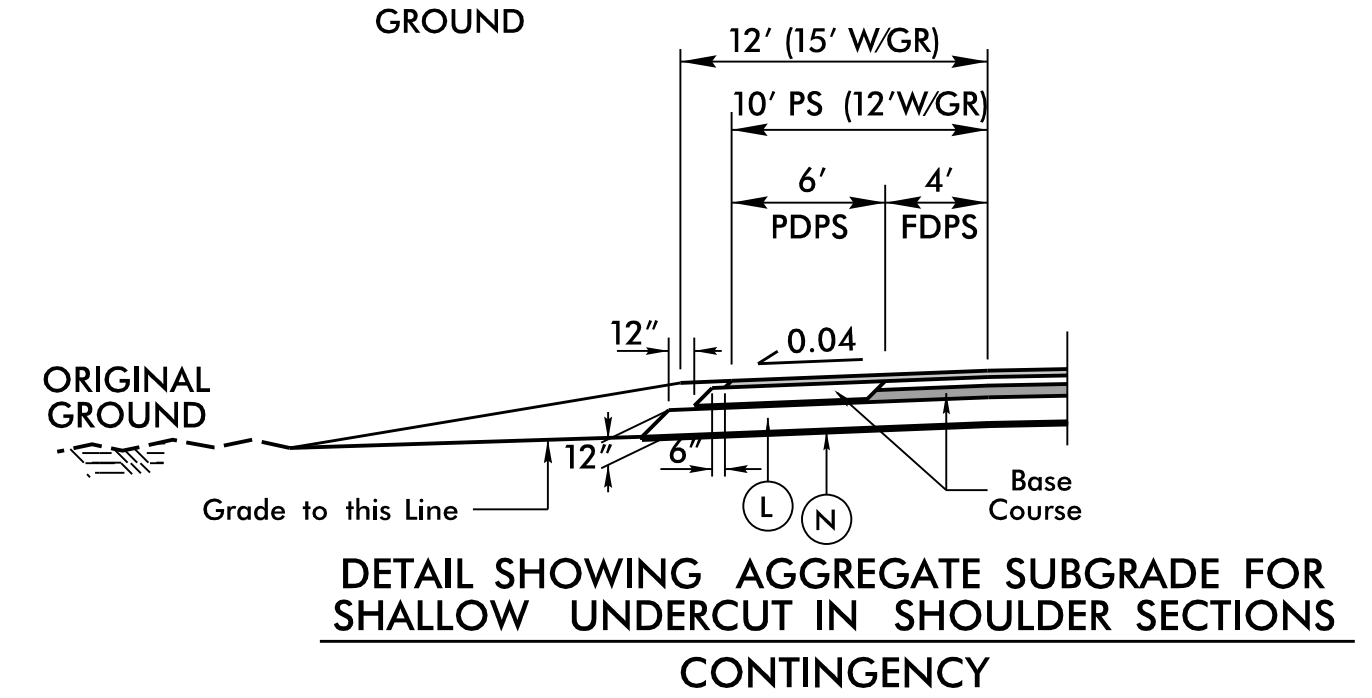
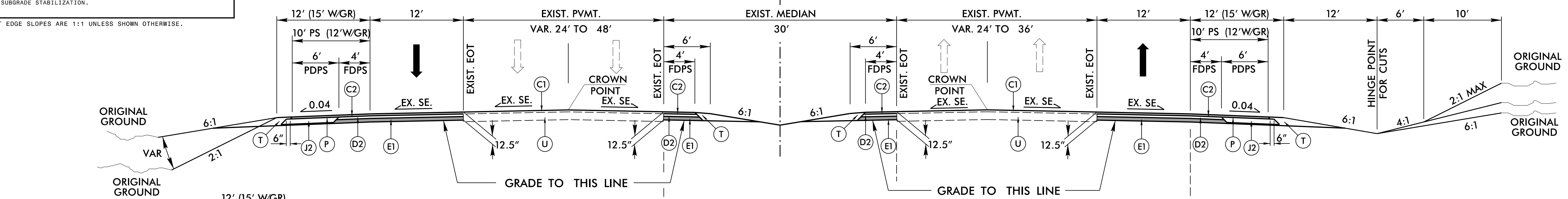
(FINAL PAVEMENT DESIGN)

A1	6" PORTLAND CEMENT CONCRETE DRIVEWAY.	N	GEOTEXTILE FOR SUBGRADE STABILIZATION.
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	P	PRIME COAT AT THE RATE OF 0.35 GAL. PER SQ. YD.
C2	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.	R1	2'-6" CONCRETE CURB AND GUTTER.
C3	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.	R2	5" MONOLITHIC CONCRETE ISLAND (KEYED IN)
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R3	2'-6" CONCRETE VALLEY GUTTER. (SEE DETAIL 2C-1)
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	S	4" CONCRETE SIDEWALK
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.	T	EARTH MATERIAL.
E1	PROP. APPROX. 5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 827 LBS. PER SQ. YD.	U	EXISTING PAVEMENT.
E2	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.	V1	INCIDENTAL MILLING.
J1	6" AGGREGATE BASE COURSE.	V2	VARIABLE DEPTH MILLING 0" TO 1 1/2".
J2	VARIABLE DEPTH AGGREGATE BASE COURSE (8" MINIMUM).	W	VARIABLE DEPTH ASPHALT PAVEMENT. (SEE WEDGING DETAIL)
L	CLASS IV SUBGRADE STABILIZATION.		

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

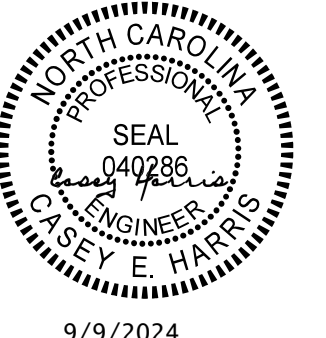
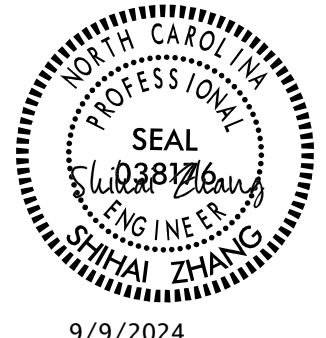



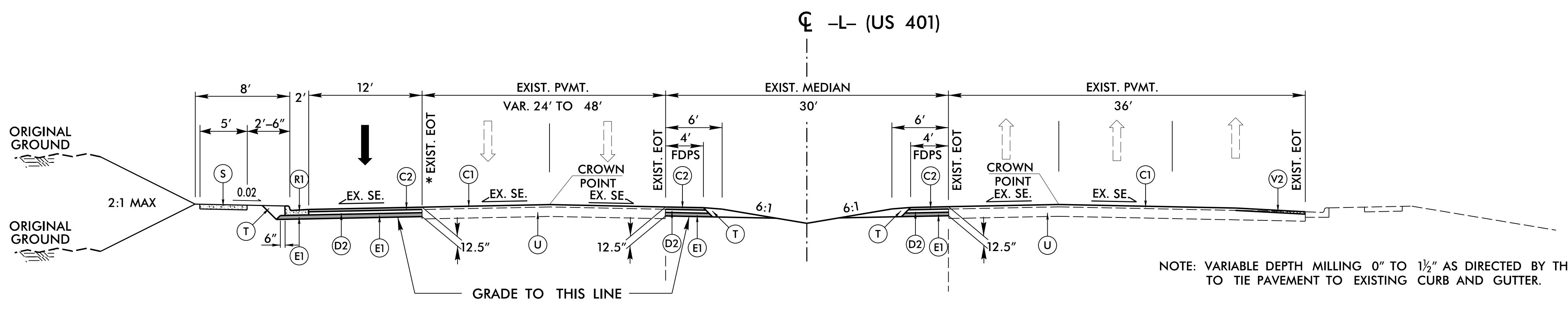
PROJECT REFERENCE NO. <b>U-5746</b>	SHEET NO. <b>2A-1</b>
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
9/30/2024	9/30/2024
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\2016\NCDOT\_Centrol\_Reg\_Div\_Plan\_Design\_0n-Coll\_M\_U-5746\_Task\_Order\_3\6.0.CAD.BTM\6.2.WTP-U-5746\_TO\_3\Roadway\Pro\U5746\_RDY\_TYP.dgn  
 REVISIONS  
 PENTABLE: NCDOT\_pshp.fltd  
 TIME: 10:18:15 AM  
 DATE: 9/30/2024  
 USER: CHARRIS  
 FILE: NCDOT\2016\NCDOT\_Centrol\_Reg\_Div\_Plan\_Design\_0n-Coll\_M\_U-5746\_Task\_Order\_3\6.0.CAD.BTM\6.2.WTP-U-5746\_TO\_3\Roadway\Pro\U5746\_RDY\_TYP.dgn

6/2/2019

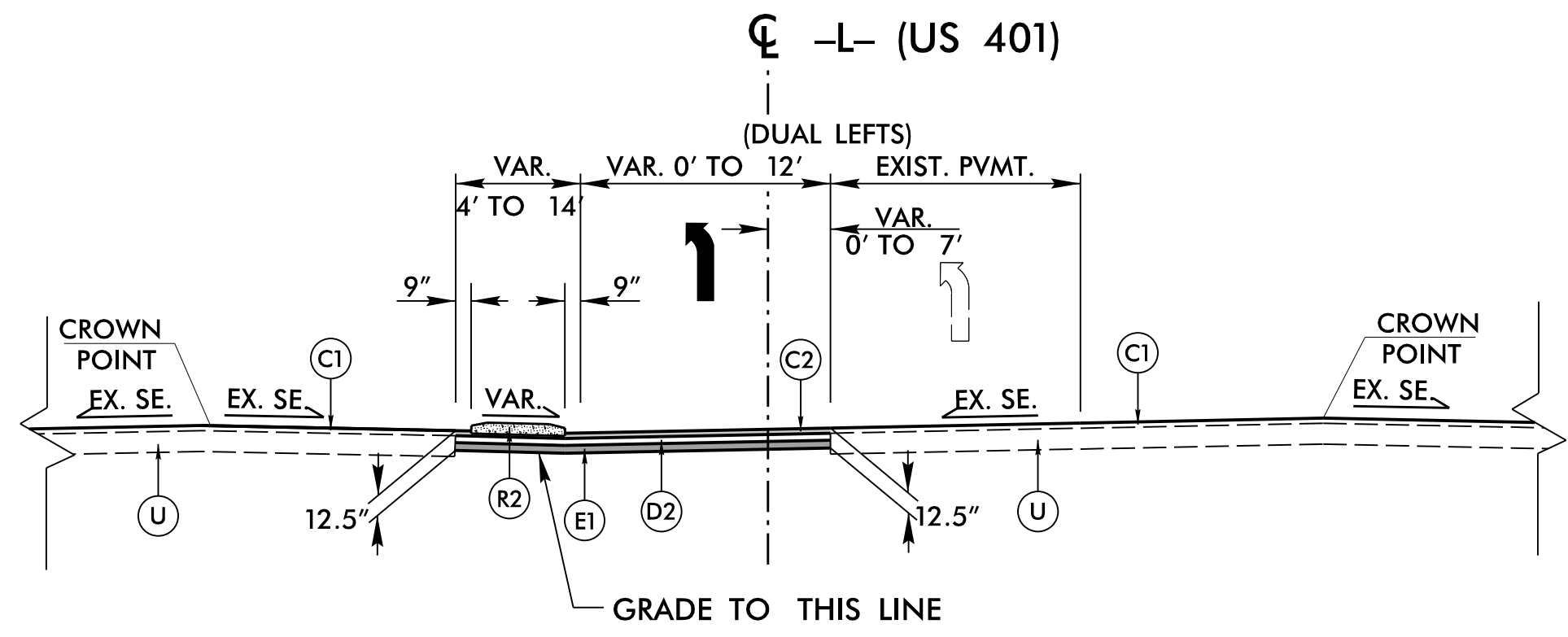
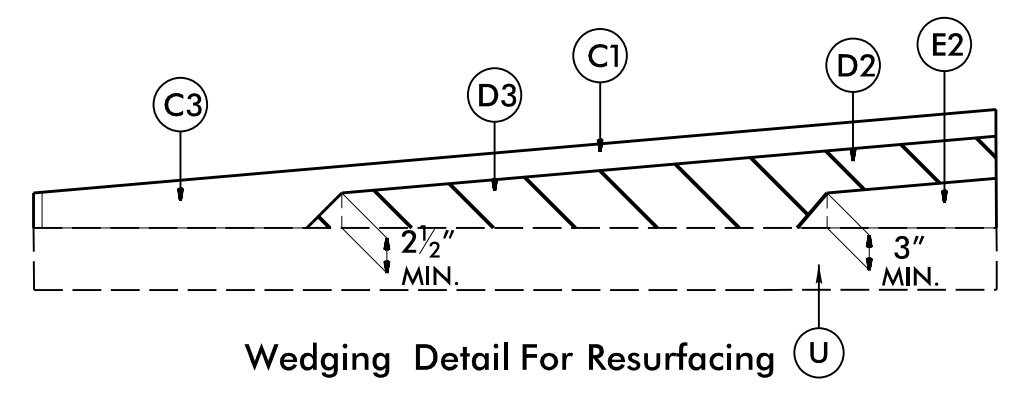
PROJECT REFERENCE NO. <b>U-5746</b>	SHEET NO. <b>2A-2</b>
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
	
9/9/2024	9/9/2024
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



\* WEDGE ASPHALT TO CORRECT CROSS SLOPE AT EXIST. LANE LINE. SEE PLANS FOR SUPERELEVATION.

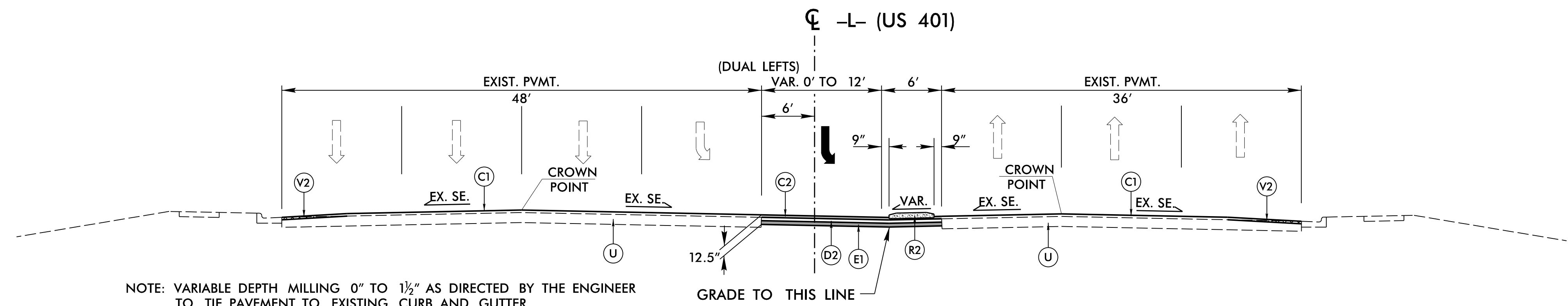
**TYPICAL SECTION NO. 2**

**USE TYPICAL SECTION NO. 2 FOR:**  
-L- STA. 28+48.65 TO STA. 38+63.89



**LEFT TURN DETAIL NO. 2A**

**USE LEFT TURN DETAIL NO. 2A FOR:**  
-L- STA. 32+25.00 TO STA. 37+90.00



NOTE: VARIABLE DEPTH MILLING 0" TO 1 1/2" AS DIRECTED BY THE ENGINEER TO TIE PAVEMENT TO EXISTING CURB AND GUTTER.

**TYPICAL SECTION NO. 3**

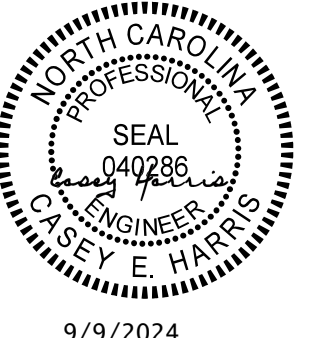
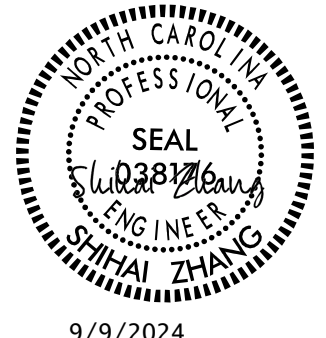

**USE TYPICAL SECTION NO. 3 FOR:**  
-L- STA. 38+63.89 TO STA. 45+78.48

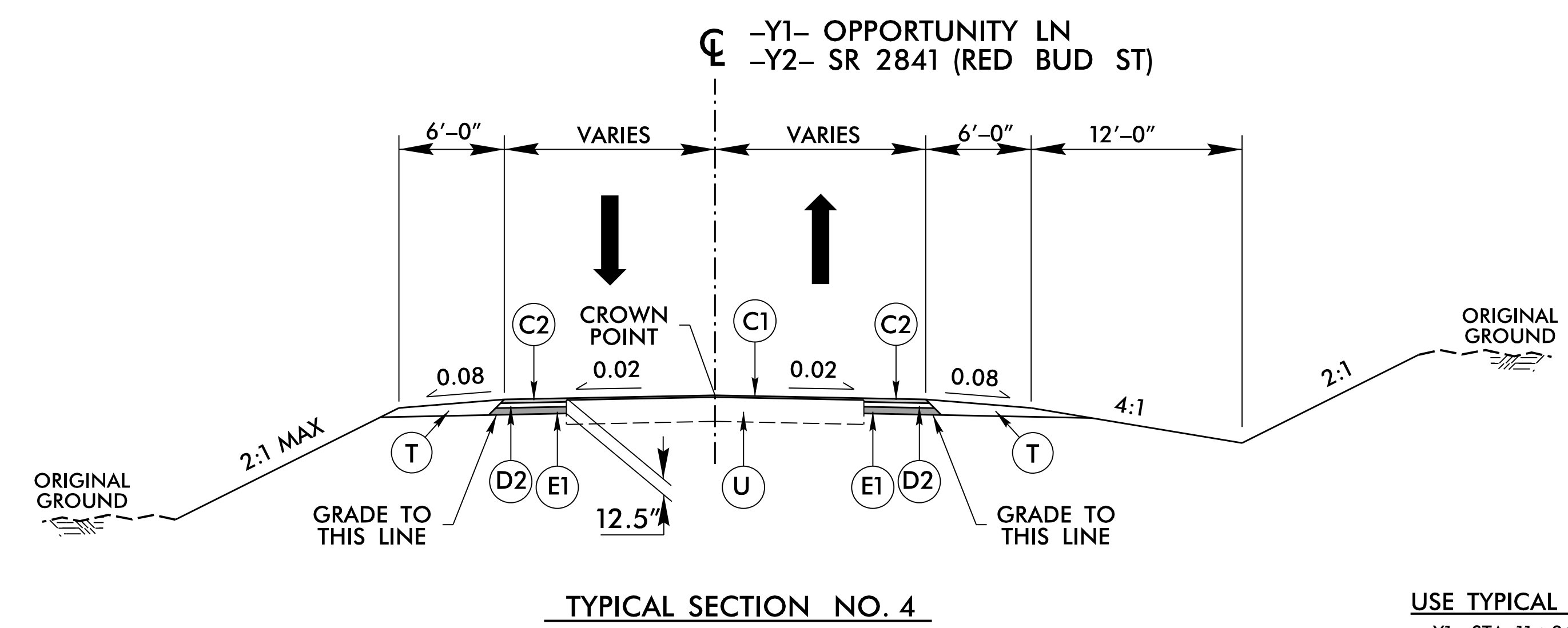
PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN	
A1	6" CONC. DRIVEWAY
C1	1.5" S9.5C
C2	3" S9.5C
C3	VAR. S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	5.5" B25.0C
E2	VAR. B25.0C
J1	6" ABC
J2	VAR. ABC (8" MIN.)
P	PRIME COAT
R1	2'-6" CURB & GUTTER
R2	5" MONOLITHIC CONC. ISLAND
R3	2'-6" VALLEY GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	INCIDENTAL MILLING
V2	VAR. DEPTH MILLING
W	VAR. DEPTH ASPHALT

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\2016.NCDOT\_Centrol.Reg.Div.Plan\_Design\_0n-Coll\_M\_U-5746\_Task\_Order\_3\6.0.CAD.BIM\6.2.WTP-U-5746\_TO\_3\Roadway\Pro\U5746\_RDY\_TYP.dgn  
 PENTABLE: NCDOT\_pshp.fltd  
 TIME: 8:08:30 AM  
 DATE: 9/9/2024

REVISIONS

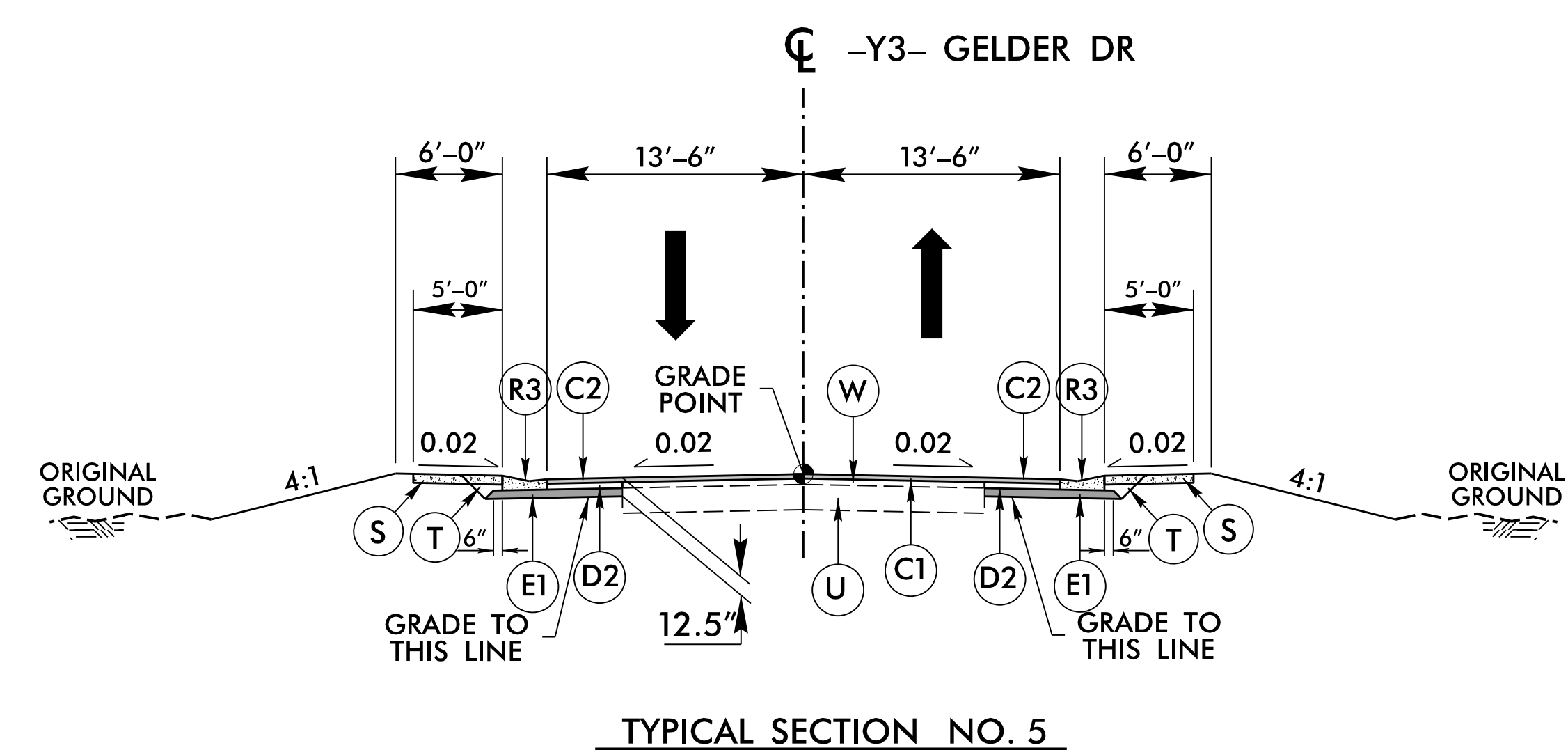
6/2/2024

PROJECT REFERENCE NO. <b>U-5746</b>	SHEET NO. <b>2A-3</b>
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
9/9/2024	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



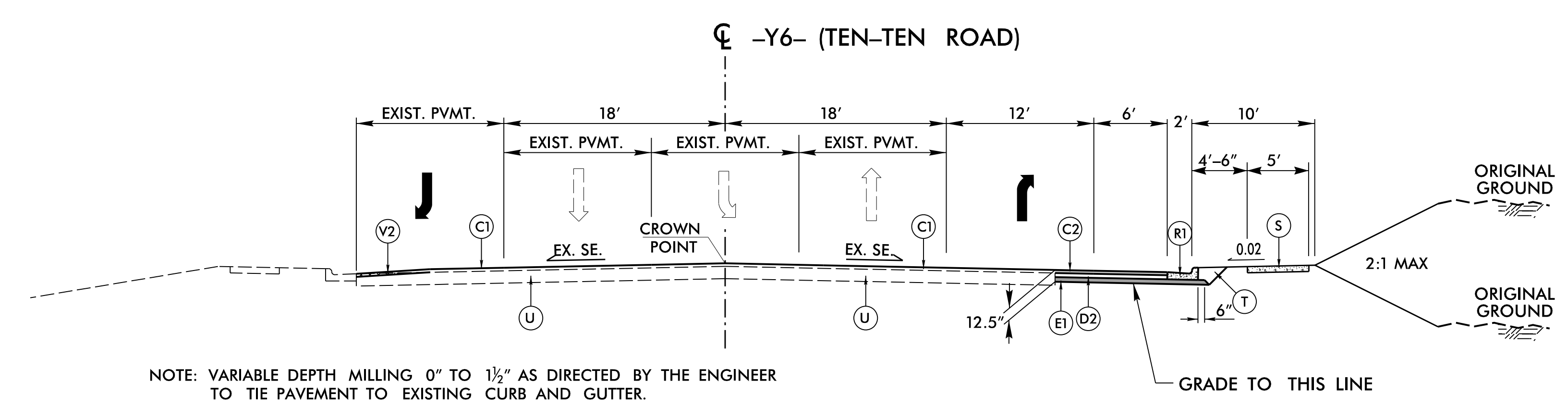
**TYPICAL SECTION NO. 4**

**USE TYPICAL SECTION NO. 4 FOR:**  
 -Y1- STA. 11+36.61 TO STA. 12+17.72  
 -Y2- STA. 10+51.00 TO STA. 11+35.49



**TYPICAL SECTION NO. 5**

**USE TYPICAL SECTION NO. 5 FOR:**  
 -Y3- STA. 10+50.00 TO STA. 12+01.17



**TYPICAL SECTION NO. 6**

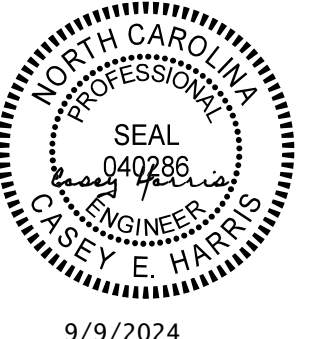
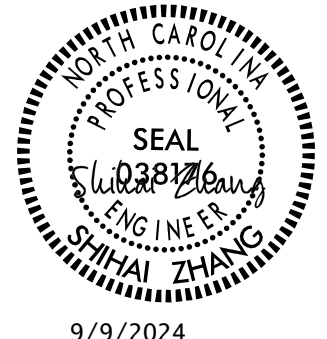

**USE TYPICAL SECTION NO. 6 FOR:**  
 -Y6- STA. 18+96.18 TO STA. 21+19.42

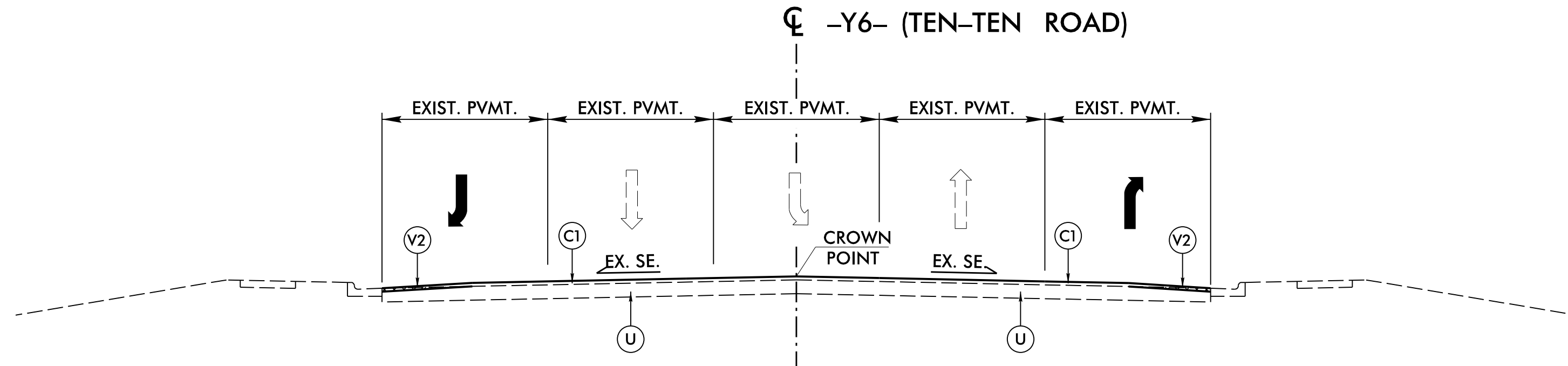
PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN	
A1	6" CONC. DRIVEWAY
C1	1.5" S9.5C
C2	3" S9.5C
C3	VAR. S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	5.5" B25.0C
E2	VAR. B25.0C
J1	6" ABC
J2	VAR. ABC (8" MIN.)
P	PRIME COAT
R1	2'-6" CURB & GUTTER
R2	5" MONOLITHIC CONC. ISLAND
R3	2'-6" VALLEY GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	INCIDENTAL MILLING
V2	VAR. DEPTH MILLING
W	VAR. DEPTH ASPHALT

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 9/23/2024  
 TIME: 2:42:05 PM  
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REVISIONS

6/2/2024

PROJECT REFERENCE NO. <b>U-5746</b>	SHEET NO. <b>2A-4</b>
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

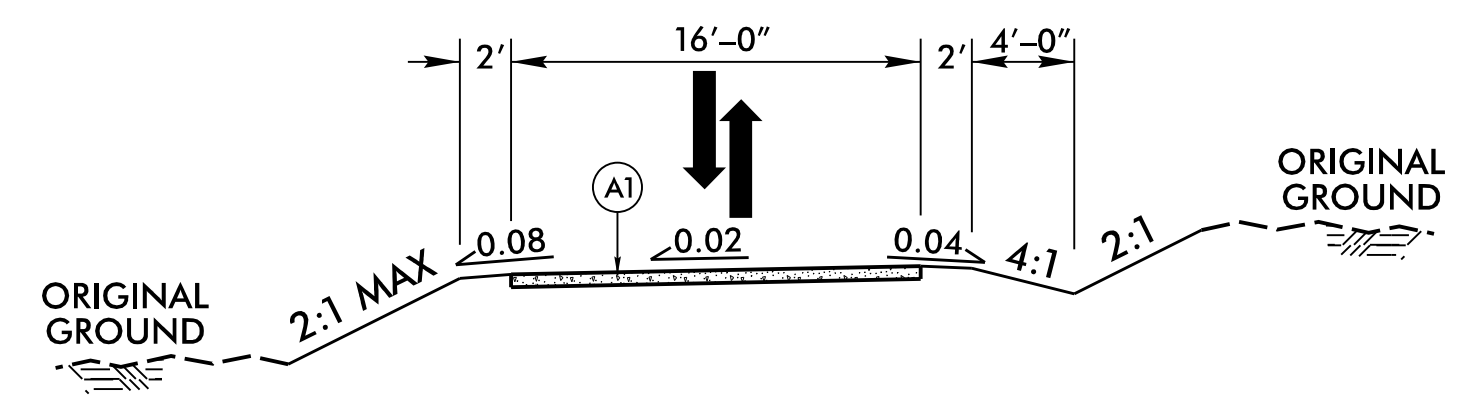


NOTE: VARIABLE DEPTH MILLING 0" TO 1½" AS DIRECTED BY THE ENGINEER TO TIE PAVEMENT TO EXISTING CURB AND GUTTER.

**TYPICAL SECTION NO. 7**

USE TYPICAL SECTION NO. 7 FOR:  
-Y6- STA. 15+64.38 TO STA. 18+96.18

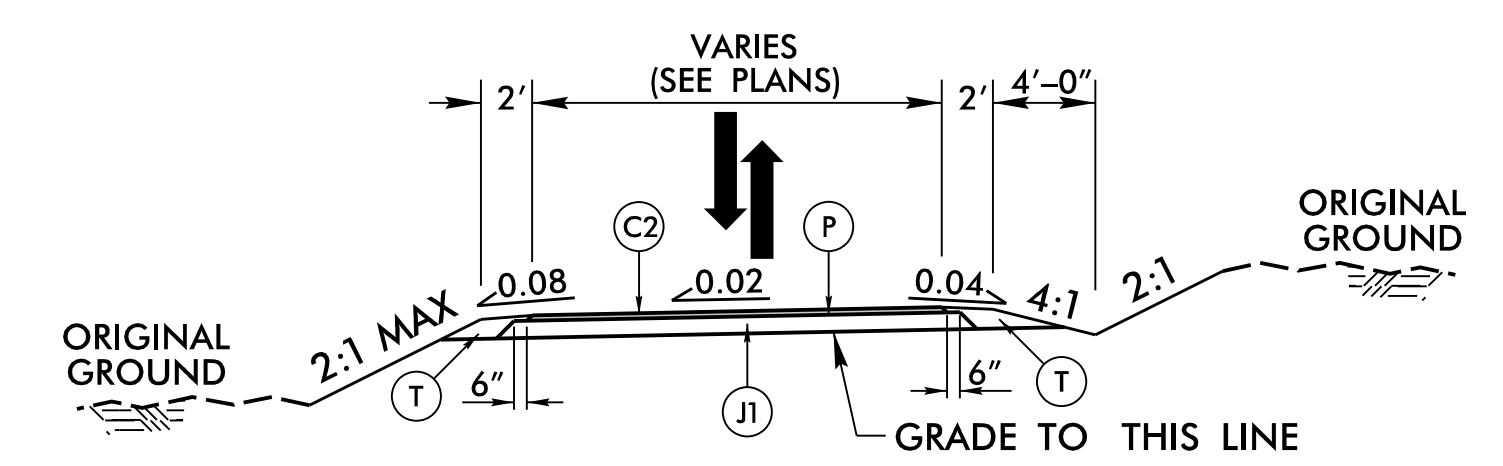
PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN	
A1	6" CONC. DRIVEWAY
C1	1.5" S9.5C
C2	3" S9.5C
C3	VAR. S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	5.5" B25.0C
E2	VAR. B25.0C
J1	6" ABC
J2	VAR. ABC (8" MIN.)
P	PRIME COAT
R1	2'-6" CURB & GUTTER
R2	5" MONOLITHIC CONC. ISLAND
R3	2'-6" VALLEY GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	INCIDENTAL MILLING
V2	VAR. DEPTH MILLING
W	VAR. DEPTH ASPHALT



**CONCRETE DRIVEWAY DETAIL**

USE CONC. DRIVEWAY DETAIL FOR:

- L STA. 14+17.00 LT
- L STA. 14+84.00 RT
- L STA. 15+23.00 RT
- L STA. 16+48.00 RT
- L STA. 26+51.00 RT



**ASPHALT DRIVEWAY DETAIL**

USE ASPHALT DRIVEWAY DETAIL FOR:

- L STA. 12+98.00 RT
- L STA. 13+48.00 RT
- \* -L STA. 15+24.00 LT
- \* -L STA. 20+21.00 LT
- \* -L STA. 21+45.00 LT
- L STA. 20+71.00 RT
- L STA. 21+09.00 RT
- L STA. 22+31.00 RT
- L STA. 23+77.00 RT
- \* -L STA. 23+90.00 LT
- L STA. 25+90.00 LT
- \* -L STA. 31+49.00 LT
- \* -L STA. 33+37.00 LT
- L STA. 36+35.00 LT
- L STA. 37+46.76 LT
- Y6- STA. 19+46.00 RT

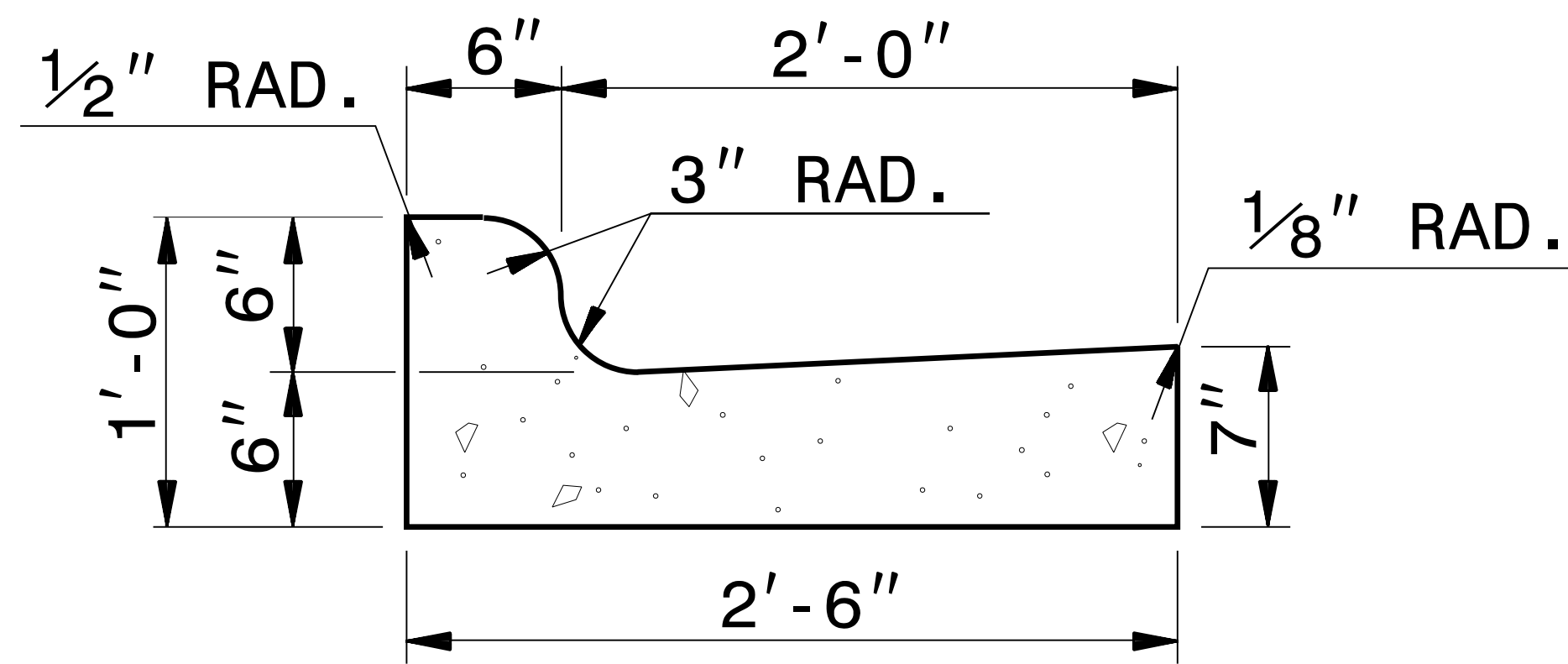
\* USE 2½" I19.0C (D1) IN BETWEEN C2 AND J1 AND OMIT PRIME COAT (P)

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\2016.NCDOT\_Centrol.Reg.Div.Plan\_Design\_0n-Coll\_M\_U-5746.Task\_Order\_3\6.0.CAD.BIM\6.2.WTP\U-5746\_TO\_3\Roadway\Pro\U5746.RDY\_TYP.dgn  
 PENTABLE: NCDOT\_pshp.plt  
 TIME: 10:30:52 AM  
 DATE: 9/3/2024

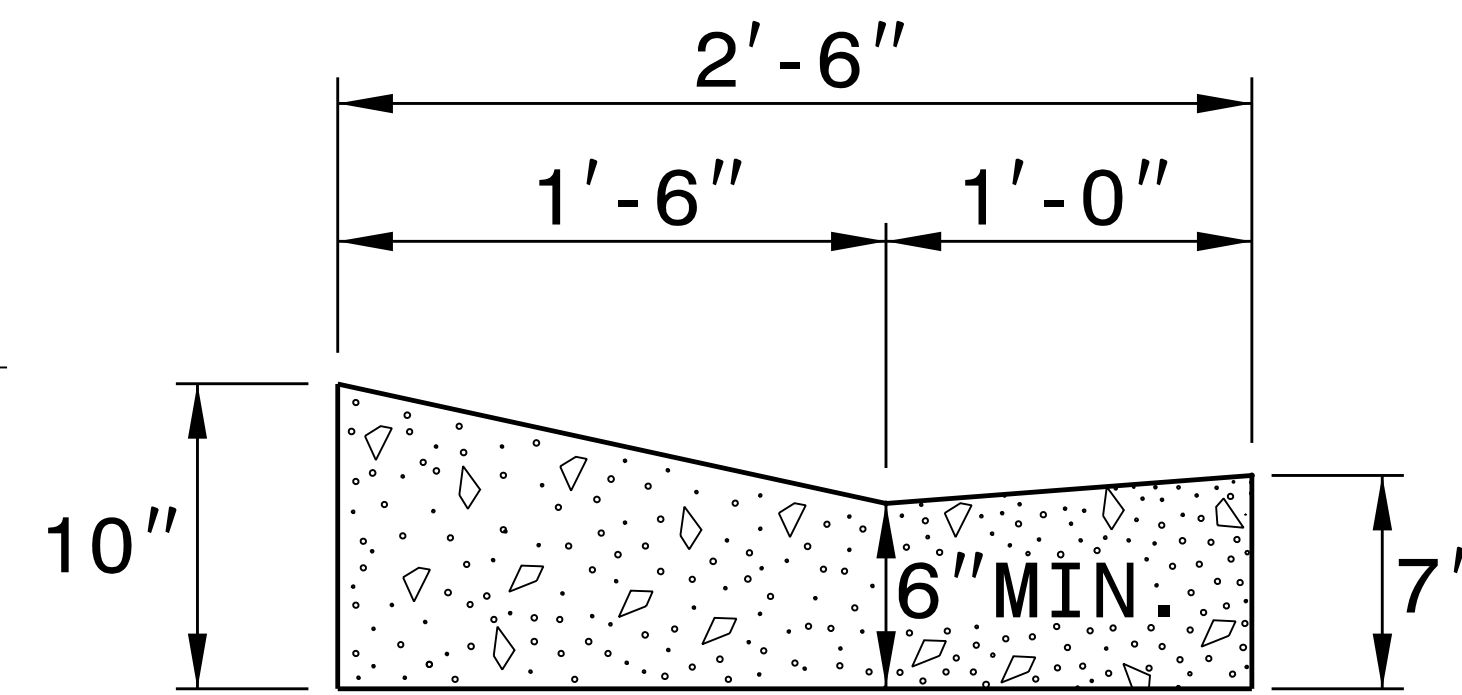
REVISIONS

\*NOTE: SEE STD. DWG. 846.01 FOR GENERAL NOTES

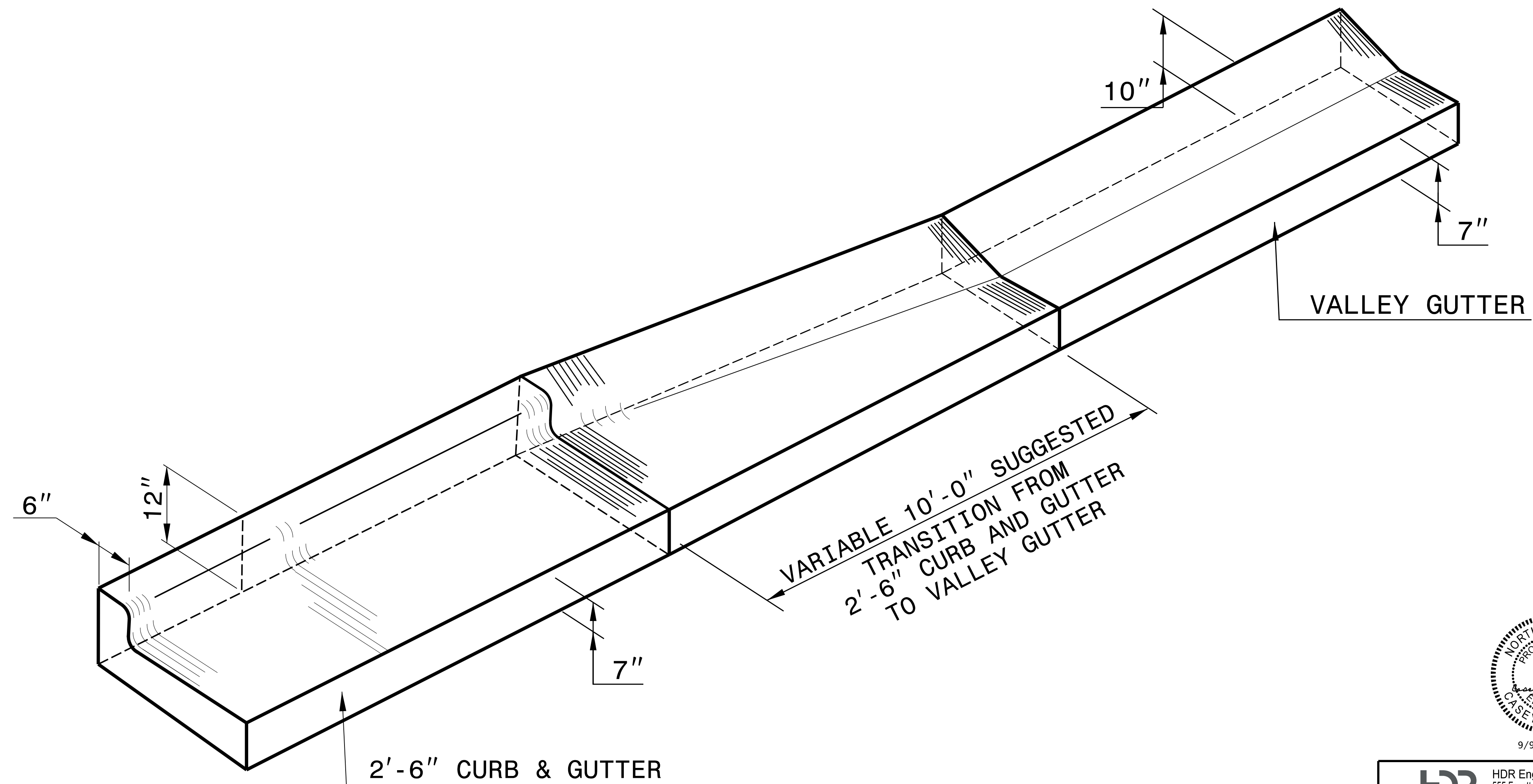
REFER TO SECTION 846 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION METHODS, MEASUREMENT AND PAYMENT.



**2'-6" CURB AND GUTTER**



**VALLEY GUTTER**



**ISOMETRIC VIEW OF TRANSITION**



<b>HDR</b> HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	
<b>TRANSITION FROM 2'-6" CURB AND GUTTER TO VALLEY GUTTER</b>	
ORIGINAL BY: T. S. SPELL	DATE: FEB. 4, 2009
MODIFIED BY: C. HARRIS	DATE: JUN. 25, 2024
CHECKED BY:	DATE:
FILE SPEC.:	

9/3/2024 11:24:03 AM U:\5746.e&g transition sections.dgn

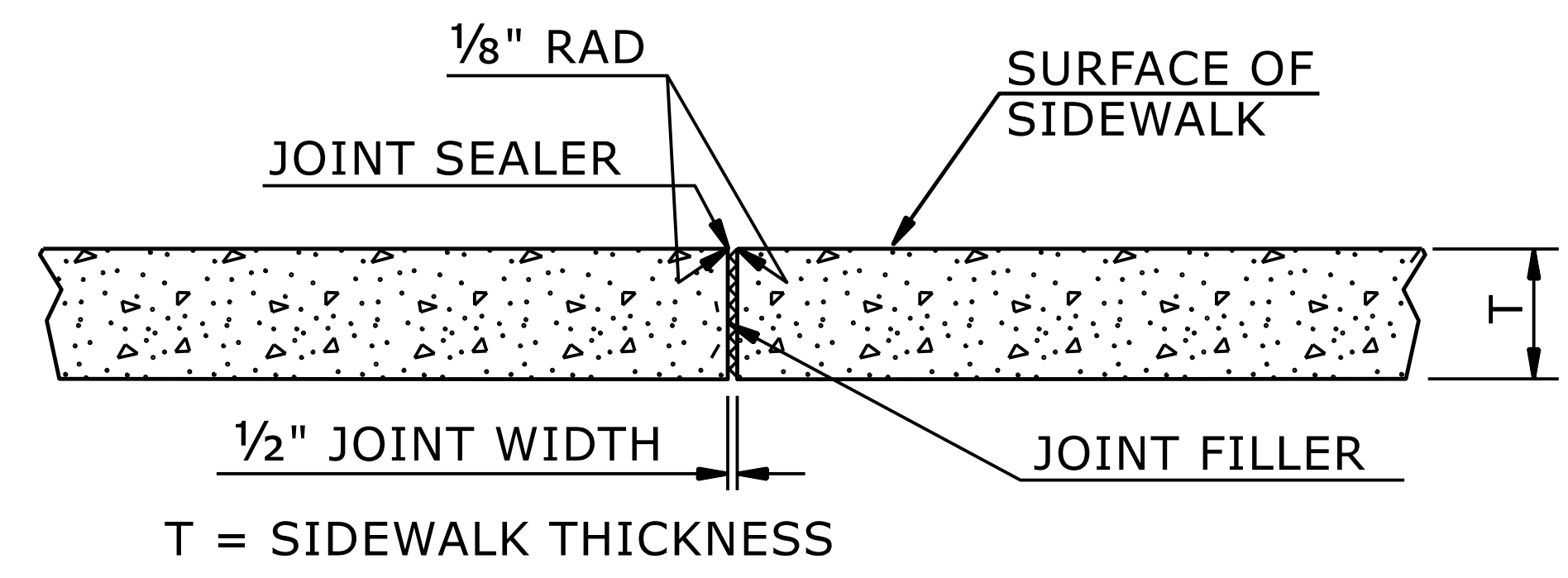


NOTES:

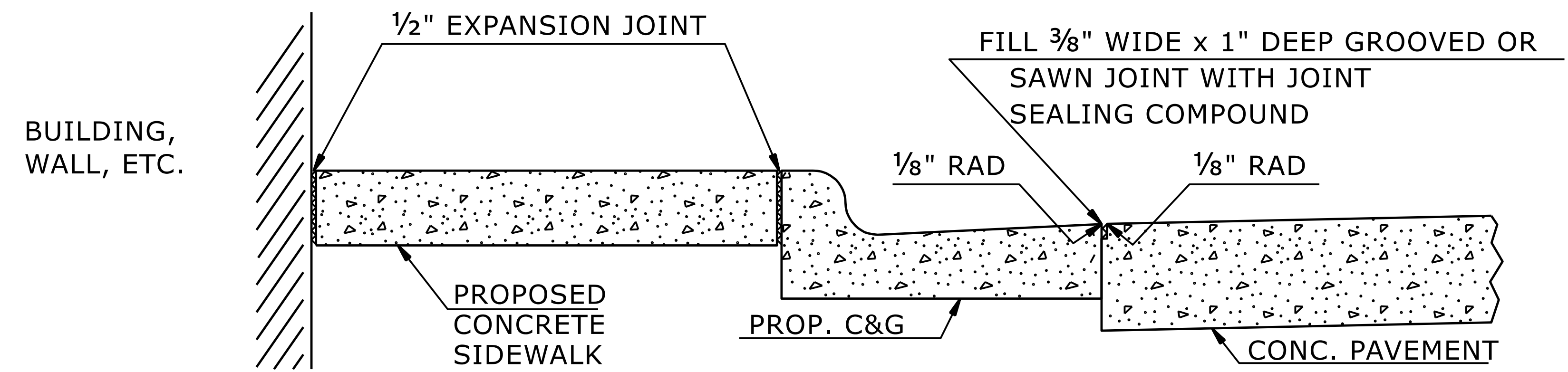
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH 1/8" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.06 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



TRANSVERSE EXPANSION JOINT IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

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

ROADWAY DETAIL DRAWING FOR  
**CONCRETE SIDEWALK**



9/9/2024

SHEET 1 OF 1  
**848D01**

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: 7-25-2024
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC.: _____	







COMPUTED BY: Geotech	DATE: 6/13/2019
CHECKED BY: CEH	DATE: 2/24/2020

(12-17-19)

PROJECT NO.	SHEET NO.
U-5746	3G-1

**STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS**

**SUMMARY OF SUBSURFACE DRAINAGE**

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				SD	200
<b>TOTAL LF:</b>					200

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

**SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION**

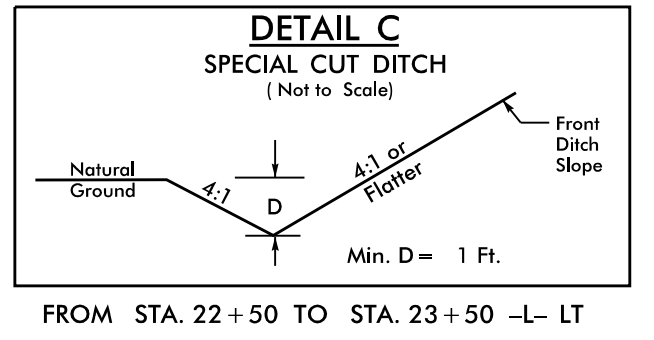
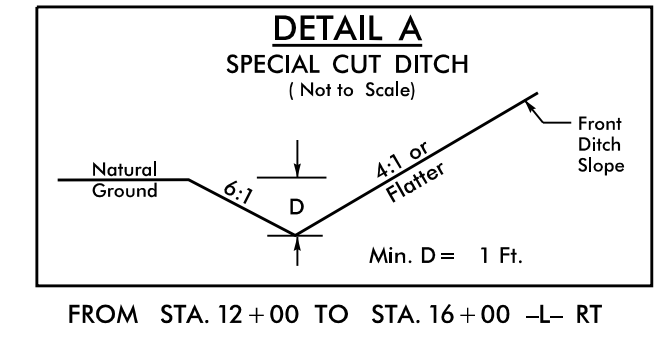
LINE	Station	Station	Aggregate Type* ASU(1/2)/ AST	Aggregate Thickness INCHES	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
CONTINGENCY			ASU (1)	12	200	100	200		
<b>TOTAL CY/TONS/SY:</b>					200	100**	200**	0	0

\*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)  
 \*AST = Aggregate Stabilization

\*\*Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Soil Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.



PROJECT REFERENCE NO. <b>U-5746</b>	SHEET NO. <b>4</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

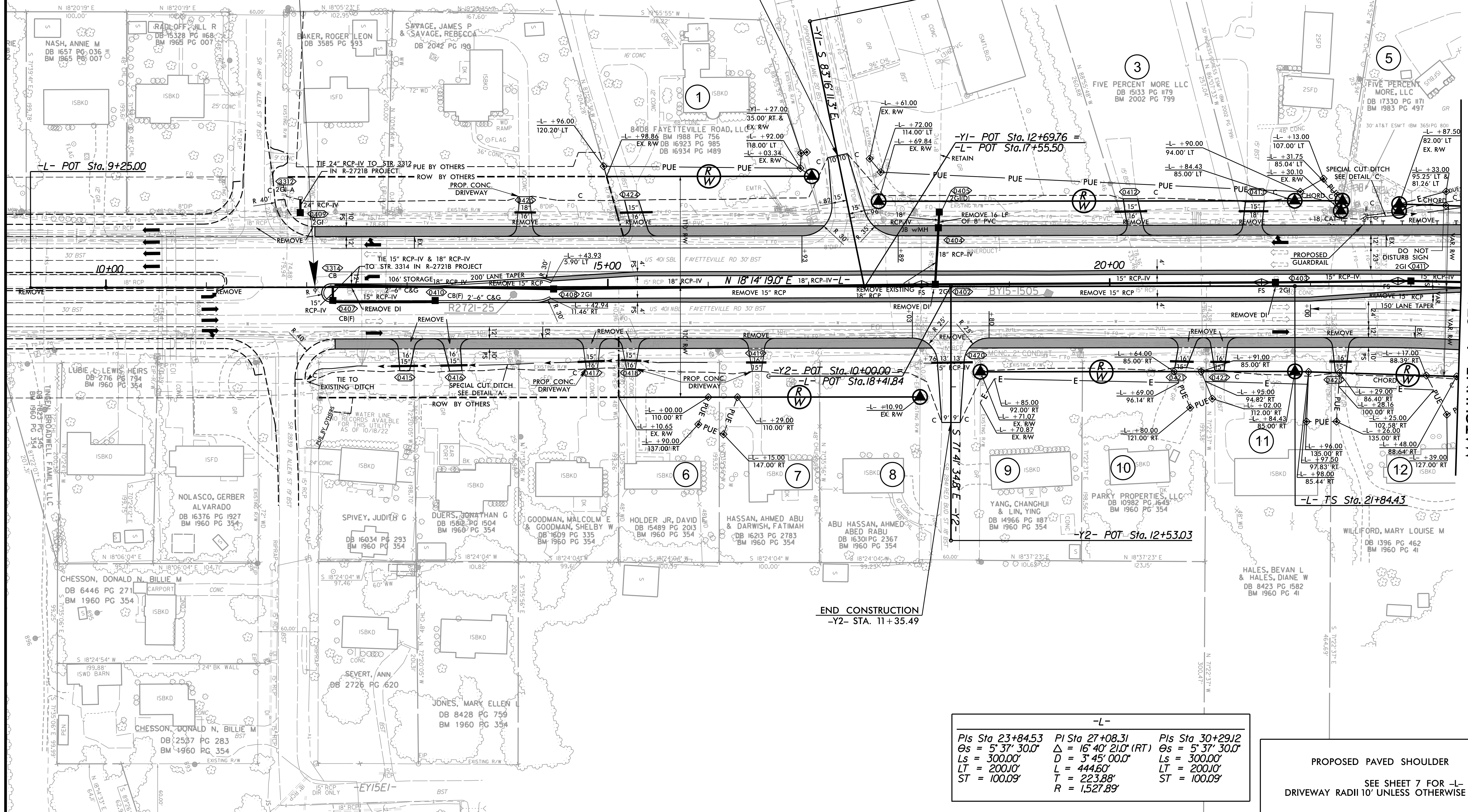


**END TIP PROJECT R-2721B  
BEGIN TIP PROJECT U-5746  
BEGIN CONSTRUCTION  
-L- STA. 12+08.22**

**BEGIN CONSTRUCTION  
-Y1- STA. 11+36.61**

**-Y1- POT Sta. 10+00.00**

**-L- POT Sta. 12+69.76 =  
-L- POT Sta. 17+55.50**



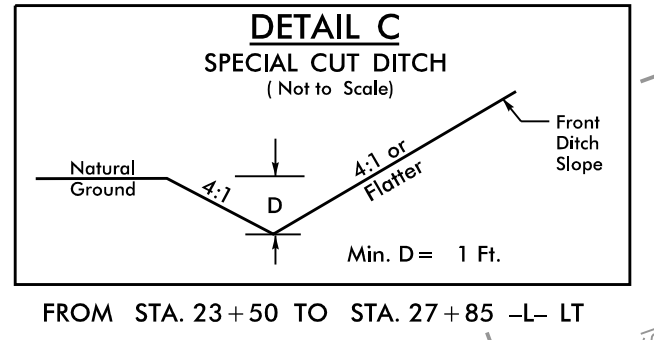
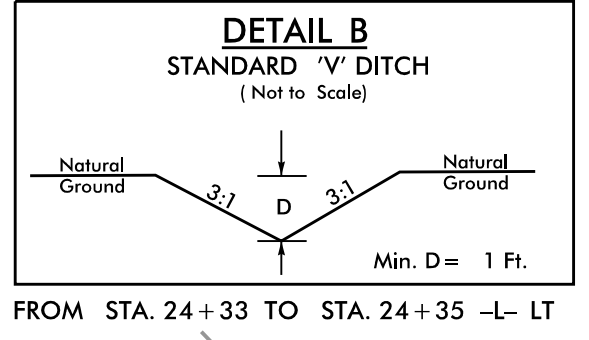
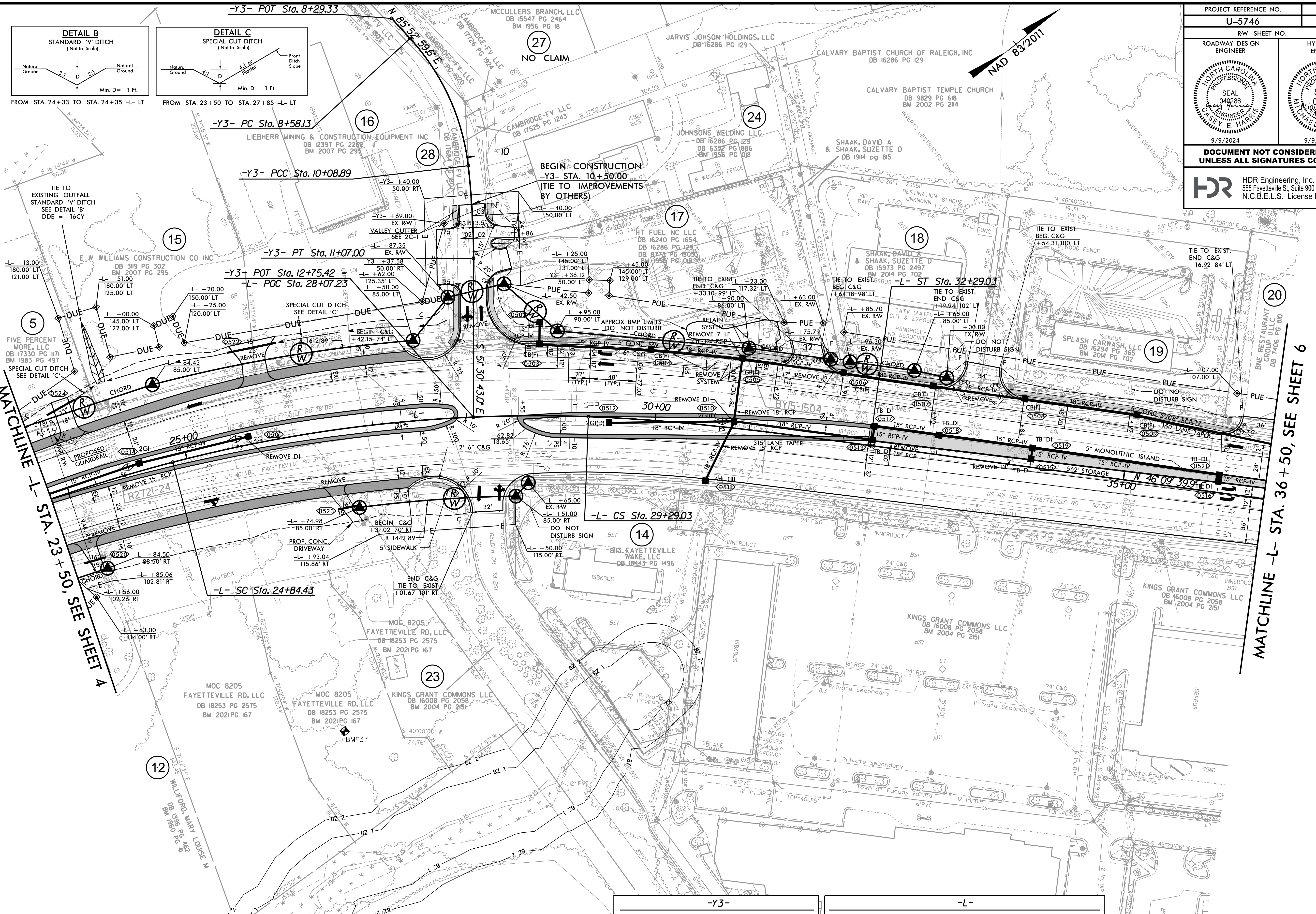
<b>-L-</b>		
<i>Pls Sta 23+84.53</i>	<i>PI Sta 27+08.31</i>	<i>Pls Sta 30+29.12</i>
<i>Os = 5' 37" 30.0"</i>	<i>Δ = 16' 40" 21.0" (RT)</i>	<i>Os = 5' 37" 30.0"</i>
<i>Ls = 300.00'</i>	<i>D = 3' 45" 00.0"</i>	<i>Ls = 300.00'</i>
<i>LT = 200.10'</i>	<i>L = 444.60'</i>	<i>LT = 200.10'</i>
<i>ST = 100.09'</i>	<i>T = 223.88'</i>	<i>ST = 100.09'</i>
	<i>R = 1,527.89'</i>	

PROPOSED PAVED SHOULDER  
SEE SHEET 7 FOR -L- PROFILE  
DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED

MATCHLINE -L- STA. 23+50, SEE SHEET 5

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\2016.NCDOT\_Centrol.Reg.Div.Plan\_Design\_0n-Coll\_M\_U-5746\_Task\_Order\_3\6.0.CAD.BTM.6.2.WTP.U-5746\_TO\_3.Roadway\Pro\U5746\_RDY\_PSH\_04.dgn  
 PENTABLE: NCDOT\_pshp.fltd  
 TIME: 4:28:23 PM  
 DATE: 9/4/2024  
 REVISIONS

PROJECT REFERENCE NO. <b>U-5746</b>		SHEET NO. <b>5</b>	
RW SHEET NO. ENGINEER		HYDRAULICS ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			



-Y3-		-L-	
PI Sta 9+36.09	PI Sta 10+58.00	PIs Sta 23+84.53	PI Sta 27+08.31
$\Delta = 35' 59'' 29.8''$ (RT)	$\Delta = 6' 36'' 47.6''$ (RT)	$\Delta s = 5' 37'' 30.0''$	$\Delta = 16' 40'' 21.0''$ (RT)
D = 23' 52'' 23.7''	D = 6' 44'' 26.4''	Ls = 300.00'	D = 3' 45'' 00.0''
L = 150.76'	L = 98.11'	L = 200.10'	L = 444.60'
T = 77.96'	T = 49.11'	T = 223.88'	T = 200.10'
R = 240.00'	R = 850.00'	ST = 100.09'	R = 1,527.89'

PROPOSED PAVED SHOULDER

SEE SHEET 7 FOR -L- PROFILE  
SEE SHEET 9 FOR -Y3- PROFILE  
DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\2016\NCDOT\_Central\_Reg\_Div\_Plan\_Design\_0n-Coll\_M\_U-5746\_Task\_Order\_3\6.0.CAD.BIM\6.2.WIP\U-5746\_TO\_3\Roadway\Pro\U5746\_RDY\_PSH\_05.dgn  
 REVISIONS  
 PENTABLE: NCDOT\_pshp.plt.tdi  
 TIME: 4:29:16 PM  
 DATE: 9/4/2024  
 USER: CHARRIS  
 FILE: NCDOT\2016\NCDOT\_Central\_Reg\_Div\_Plan\_Design\_0n-Coll\_M\_U-5746\_Task\_Order\_3\6.0.CAD.BIM\6.2.WIP\U-5746\_TO\_3\Roadway\Pro\U5746\_RDY\_PSH\_05.dgn



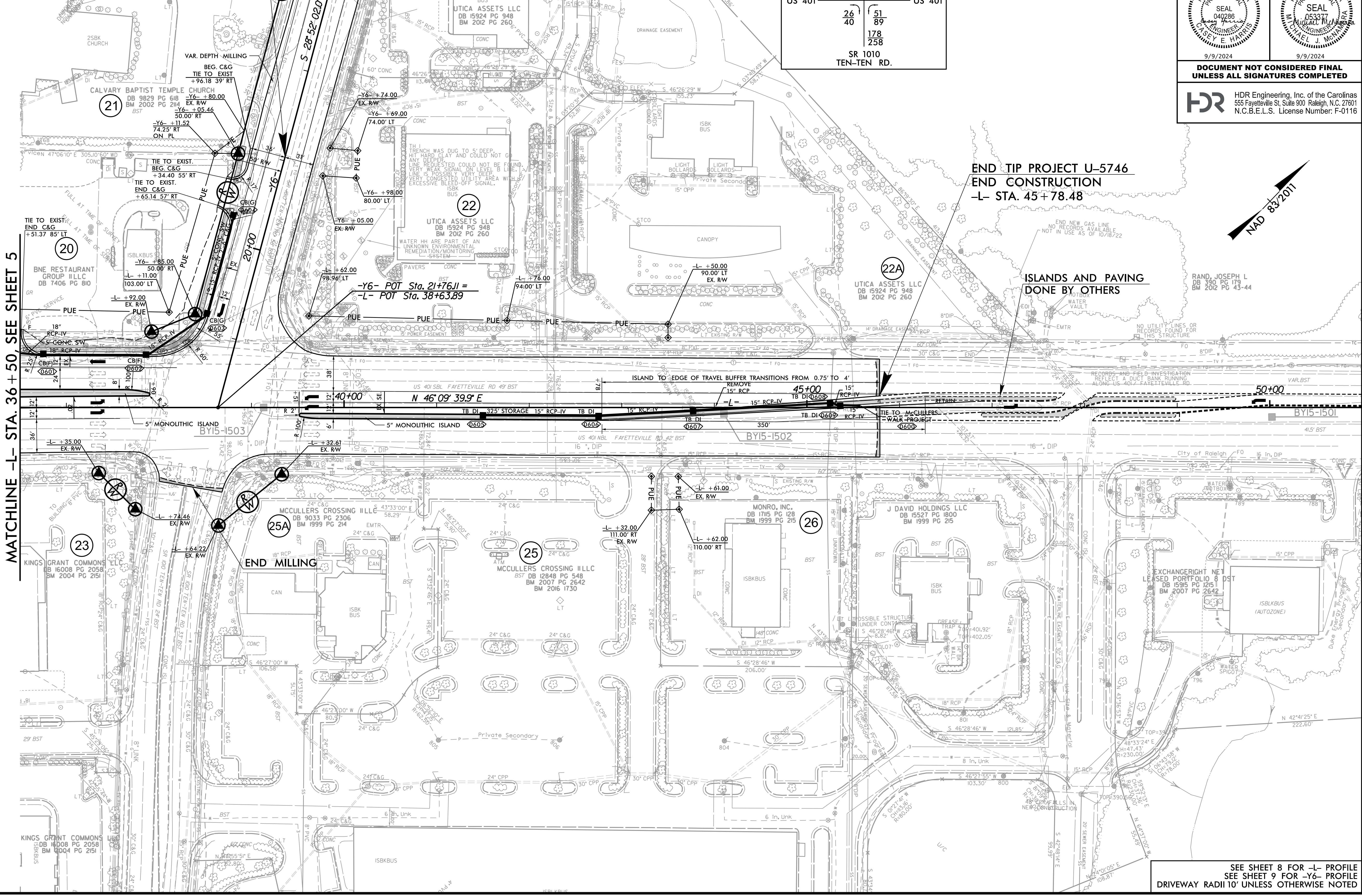
**BEGIN WIDENING**  
-Y6- STA. 18 + 96.18  
**STA. 16 + 75.00, SEE SHEET 6A**  
MATCHLINE -Y6-

2020 ADT	SR 1010
2040 ADT	TEN-TEN RD.
(ADT IN 100's)	
174	253
263	37
565	68
	37
	56
	341
	602
US 401	US 401
26	51
40	89
	178
	258
	SR 1010
	TEN-TEN RD.

PROJECT REFERENCE NO.	SHEET NO.
U-5746	6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
9/9/2024	9/9/2024

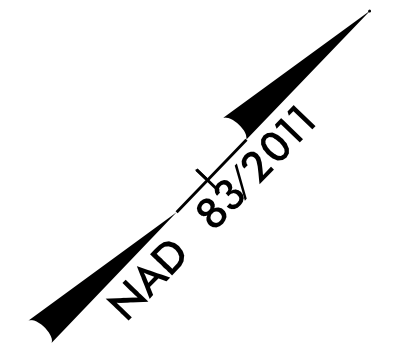
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

**HDR** HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116



**END TIP PROJECT U-5746**  
**END CONSTRUCTION**  
-L- STA. 45 + 78.88

**ISLANDS AND PAVING**  
**DONE BY OTHERS**



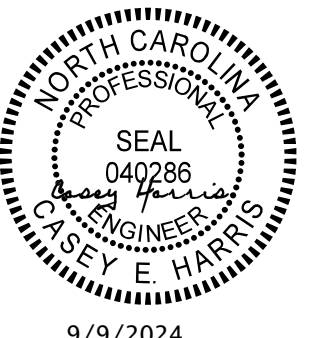
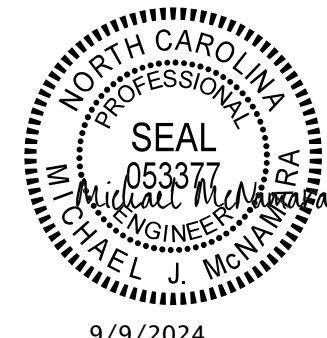

MATCHLINE -L- STA. 36 + 50 SEE SHEET 5

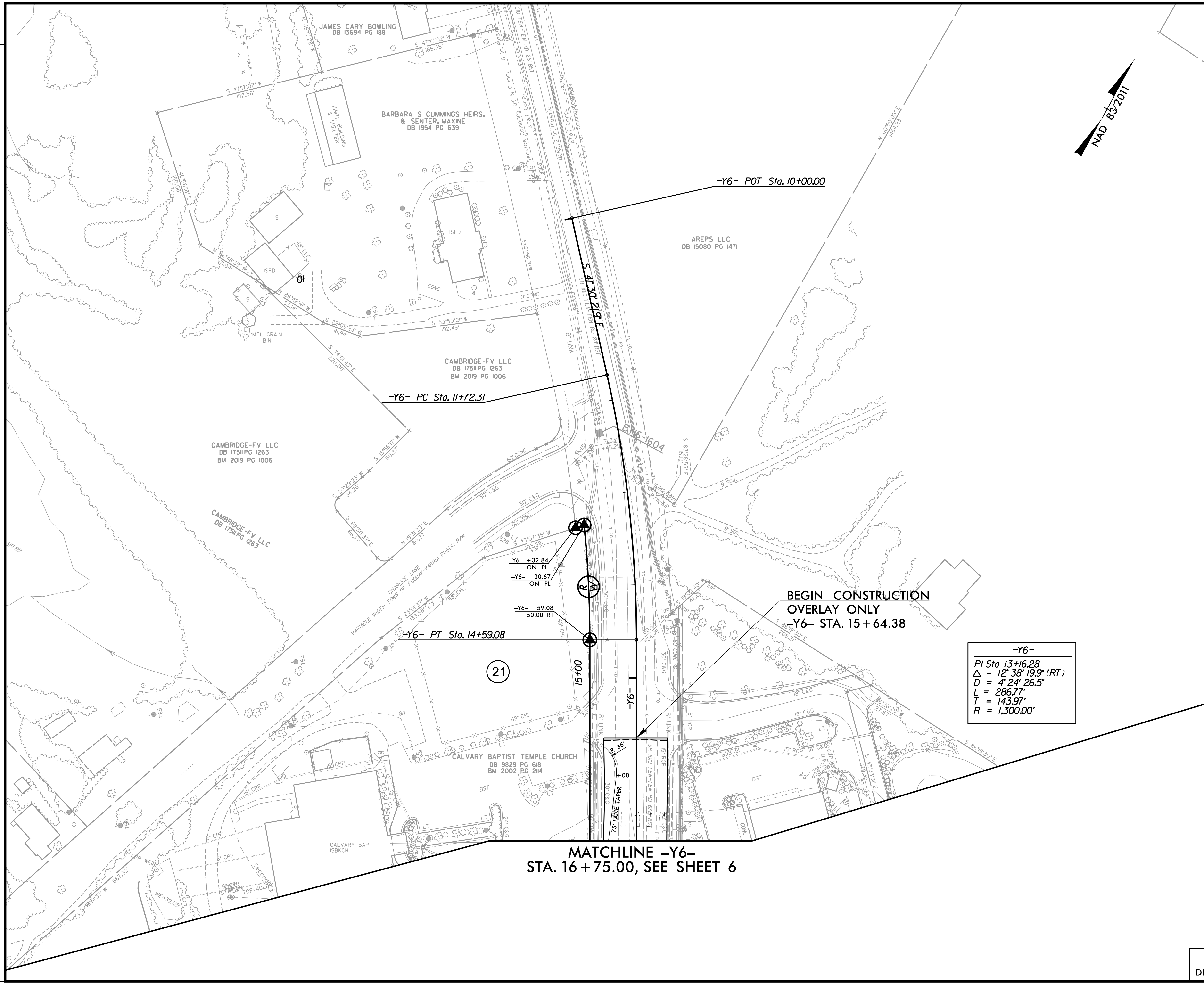
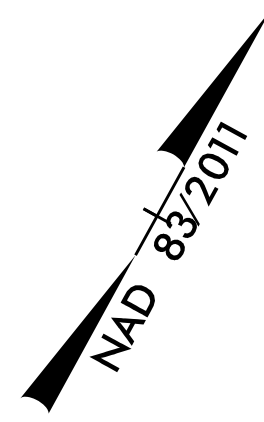
**END MILLING**

SEE SHEET 8 FOR -L- PROFILE  
SEE SHEET 9 FOR -Y6- PROFILE  
DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED

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USER: CHARRIS  
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FILE: NCDOT\2016.NCDOT\_Central.Reg.Div.Plan\_Design\_0n-Coll\_M\_U-5746\_Task\_Order\_3\6.0.CAD.BTM.6.2.WIP.U-5746\_TO\_3\Roadway\Pro\U5746\_RDY\_PSH\_06.dgn

REVISIONS

PROJECT REFERENCE NO. <b>U-5746</b>	SHEET NO. <b>6A</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
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-Y6-	
PI Sta	13+16.28
$\Delta$	12° 38' 19.9" (RT)
D	4' 24" 26.5"
L	286.77'
T	143.97'
R	1,300.00'

**MATCHLINE -Y6-  
STA. 16 + 75.00, SEE SHEET 6**

SEE SHEET 9 FOR -Y6- PROFILE  
DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\2016\_NCDOT\_Central\_Reg\_Div\_Plan\_Design\_0n-Coll\_M\_U-5746\_Task\_Order\_3\6.0\_CAD\_BITMAP\_6.2\_WTP-U-5746\_TO\_3\_Roadway\Pro\U5746\_RDY\_PSH\_06A.dgn  
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 DATE: 9/3/2024

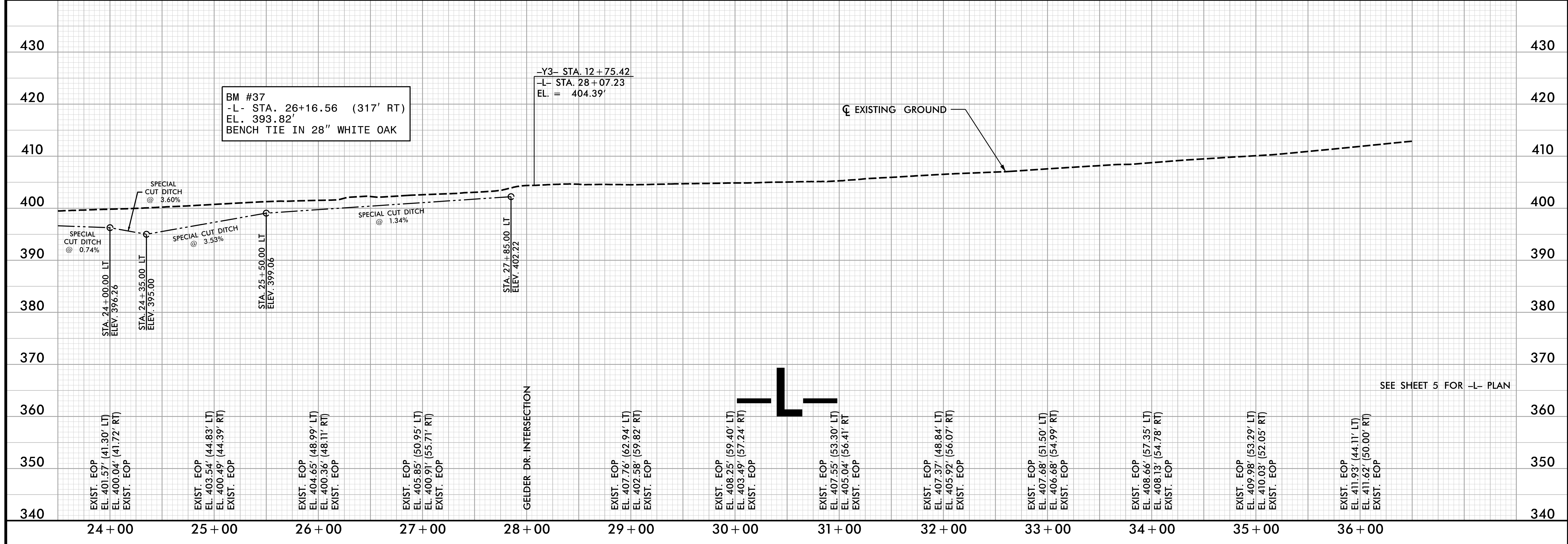
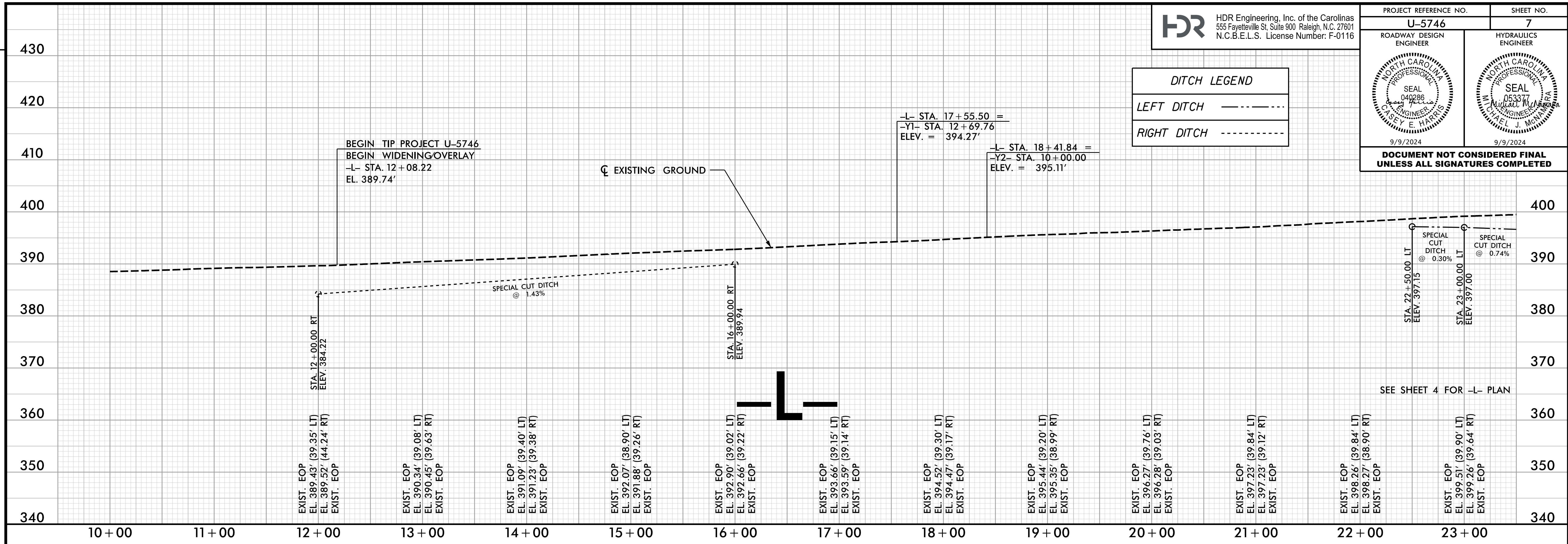
REVISIONS

PROJECT REFERENCE NO. <b>U-5746</b>		SHEET NO. <b>7</b>	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			

**DITCH LEGEND**

LEFT DITCH ————

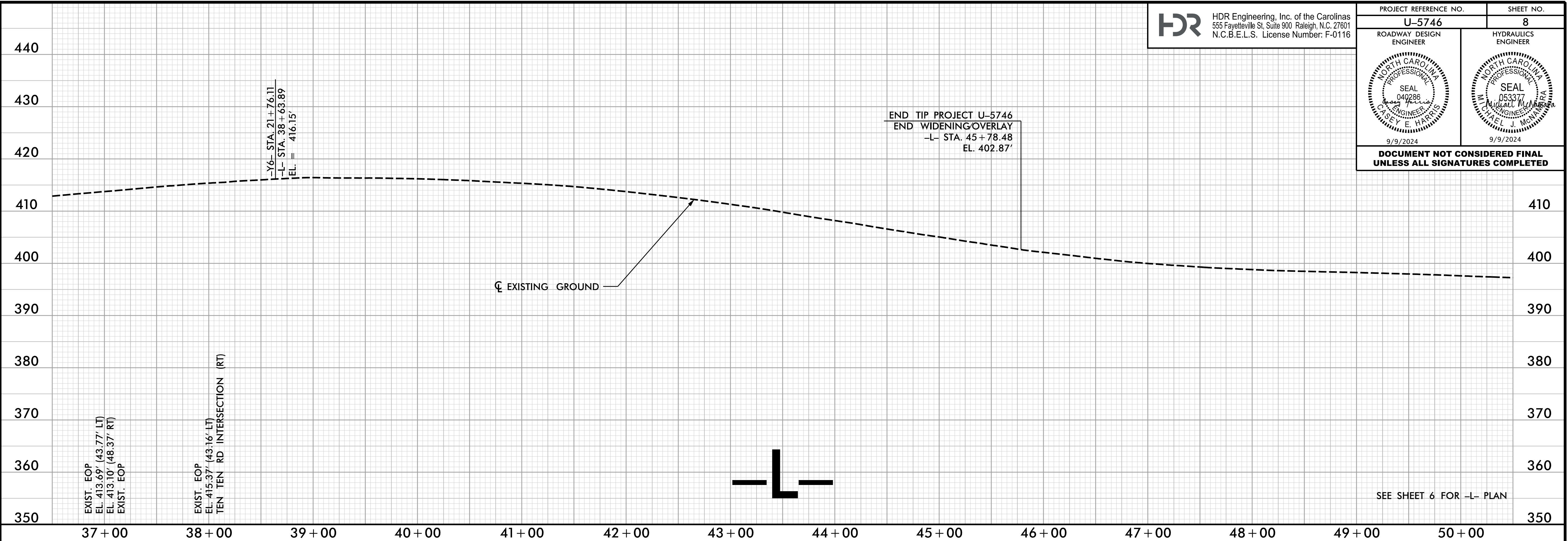
RIGHT DITCH - - - - -





REVISIONS

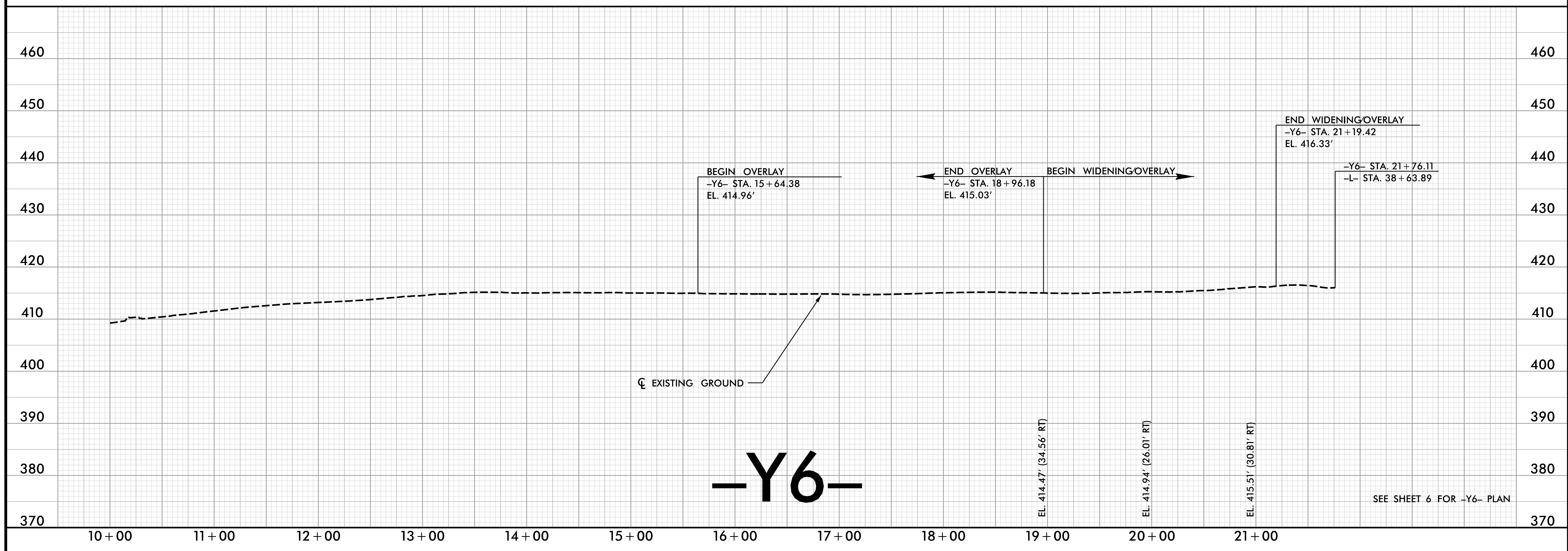
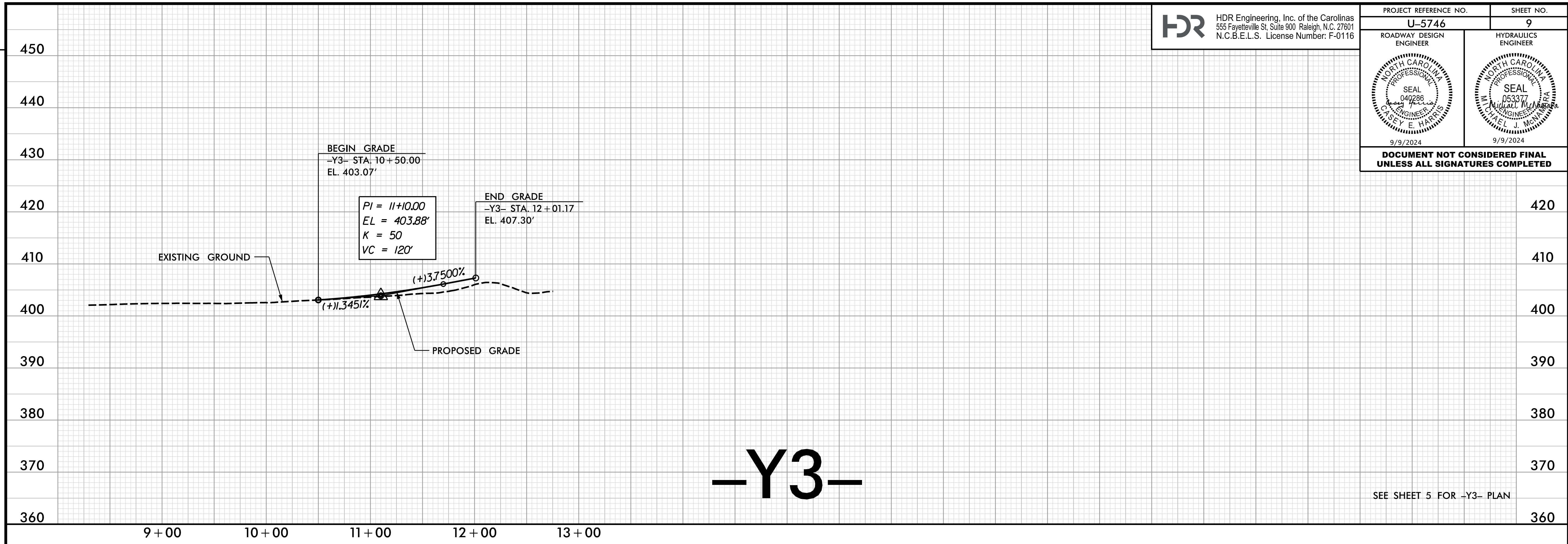
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 DATE: 6/25/2024  
 TIME: 3:33:34 PM

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



REVISIONS

PROJECT REFERENCE NO. <b>U-5746</b>	SHEET NO. <b>9</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
9/9/2024	9/9/2024
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
USER: CHARRIS  
DATE: 6/25/2024  
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