

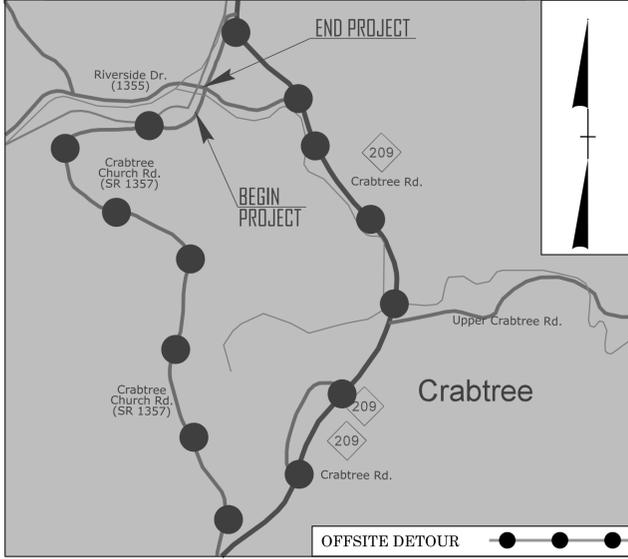
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CONTRACT: DN01124 PROJECT: DF18314.2044194

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



VICINITY MAP (NTS)

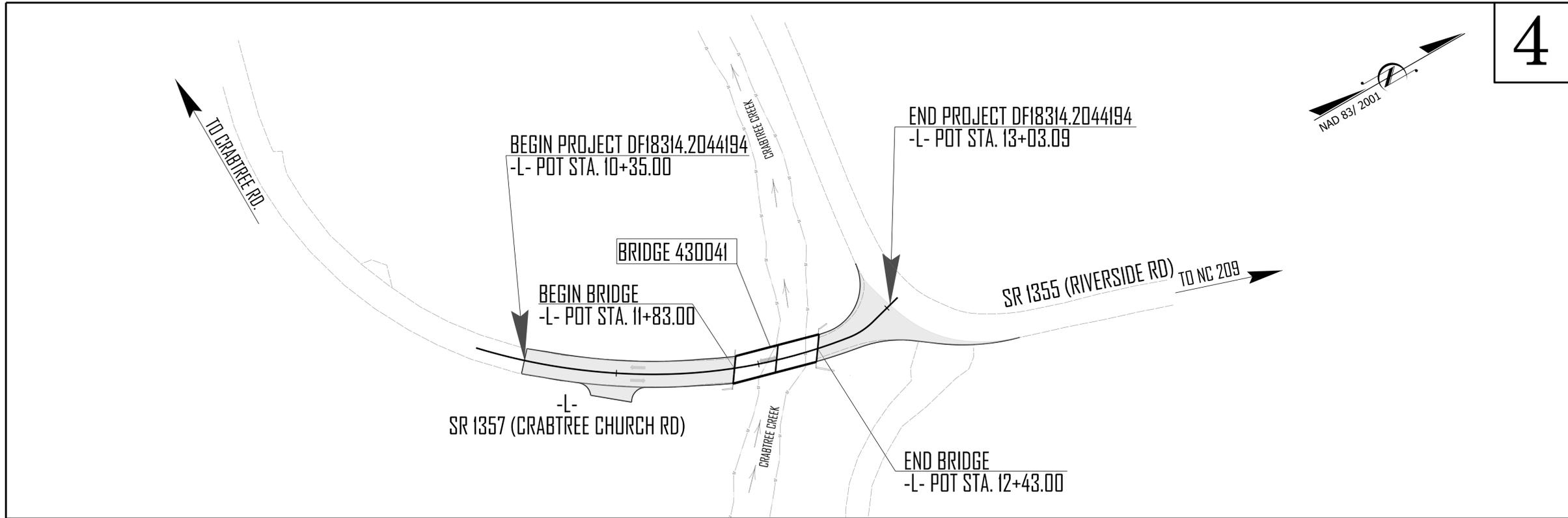
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

HAYWOOD COUNTY

LOCATION: *REPLACE BRIDGE 430041 ON SR 1357 (CRABTREE CHURCH RD)
OVER CRABTREE CREEK*

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DF18314.2044194	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
DF18314.2044194		PE, ROW, UTIL. & CONST.	



- NOTE:
1. THIS PROJECT IS WITHIN THE BOUNDARIES OF CRABTREE TOWNSHIP.
 2. NO CONTROL OF ACCESS

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<p>GRAPHIC SCALES</p> <p>PLANS: 0 to 60 feet scale</p> <p>PROFILE (HORIZONTAL): 0 to 60 feet scale</p> <p>PROFILE (VERTICAL): 0 to 12 feet scale</p>	<p>DESIGN DATA</p> <p>ADT 2025 = 200</p> <p>K = N/A % D = N/A % T = 7 % * V = 30 MPH</p> <p>* (TTST = 4% + DUAL 3%)</p> <p>FUNC CLASS = MAJOR COLLECTOR SUBREGIONAL TIER</p>	<p>PROJECT LENGTH</p> <p>LENGTH OF ROADWAY PROJECT DF18314.2044194.....0.040 MILES</p> <p>LENGTH OF STRUCTURE PROJECT DF18314.2044194....0.011 MILES</p> <p>TOTAL LENGTH PROJECT DF18314.2044194.....0.051 MILES</p>	<p>PLANS PREPARED BY:</p> <p>RK&K RUMMEL, KLEPPER & KAHL, LLP 8601 SIX FORKS ROAD, FORUM 1, SUITE 700 RALEIGH, NORTH CAROLINA 27615 NC LICENSE NO. F-0112 919-878-9560</p> <p>FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p> <p>2024 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY DATE: _____</p> <p>LETTING DATE: 11/12/2025</p> <p>NCDOT DIVISION CONTACT: _____</p>	<p>HYDRAULICS ENGINEER</p> <p>10/6/2025</p> <p>Signed by: <i>Eleni M. Riggs</i> SIGNATURE: _____ P.E.</p> <p>ROADWAY DESIGN ENGINEER</p> <p>10/3/2025</p> <p>Signed by: <i>Scott D. Blevins</i> SIGNATURE: _____ P.E.</p>	
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Signed by:
Scott D. Blerins
476RCR0304EEFAA1

PREPARED BY



PREPARED BY



P: 919.878.9560
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112

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REVISIONS

INDEX OF SHEETS

SHEET NUMBER	SHEET	EFF. 01-16-2024 REV.
1	TITLE SHEET	2024 ROADWAY ENGLISH STANDARD DRAWINGS
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS	The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:
1B	CONVENTIONAL SYMBOLS	STD.NO. TITLE DIVISION 2 - EARTHWORK
2A-1	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND SPECIAL DETAILS	200.02 Method of Clearing - Method II 225.02 Guide for Grading Subgrade - Secondary and Local 225.04 Method of Obtaining Superelevation - Two Lane Pavement
2C-1	RIGHT OF WAY SHEET	DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
3B-1	ROADWAY SUMMARY SHEET	560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I
4	PLAN AND PROFILE SHEET	
TMP-1 THRU TMP-3	TRAFFIC MANAGEMENT PLANS	
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS	
EC-1 THRU EC-5	EROSION CONTROL	
UO-1 THRU UO-2	UTILITIES BY OTHERS PLANS	
X-1 THRU X-5	CROSS-SECTIONS	
S-1 THRU S-22	STRUCTURE PLANS	

GENERAL NOTES: 2024 SPECIFICATIONS

EFFECTIVE: 01-16-2024

REVISED:

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

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

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:

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN IN THE PLANS.
UTILITIES LIST: EMC (NOT IN CONFLICT) AND AT&T (IN CONFLICT)

Note: Not to Scale

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

DF18314.2044194
IB

BOUNDARIES AND PROPERTY:

Table listing symbols for 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.

BUILDINGS AND OTHER CULTURE:

Table listing symbols for buildings and other culture: Gas Pump Vent or U/G Tank Cap, Sign, Well, Small Mine, Foundation, Area Outline, Cemetery, Building, School, Church, Dam.

HYDROLOGY:

Table listing symbols for 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:

Table listing symbols for railroads: Standard Gauge, RR Signal Milepost, Switch, RR Abandoned, RR Dismantled.

RIGHT OF WAY & PROJECT CONTROL:

Table listing symbols for right of way and 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:

Table listing symbols for 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:

Table listing symbols for vegetation: Single Tree, Single Shrub, Hedge.

Table listing symbols for existing structures: Woods Line, Orchard, Vineyard.

EXISTING STRUCTURES:

Table listing symbols for 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:

Table listing symbols for 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:

Table listing symbols for 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:

Table listing symbols for 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:

Table listing symbols for 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:

Table listing symbols for 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:

Table listing symbols for 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)*.

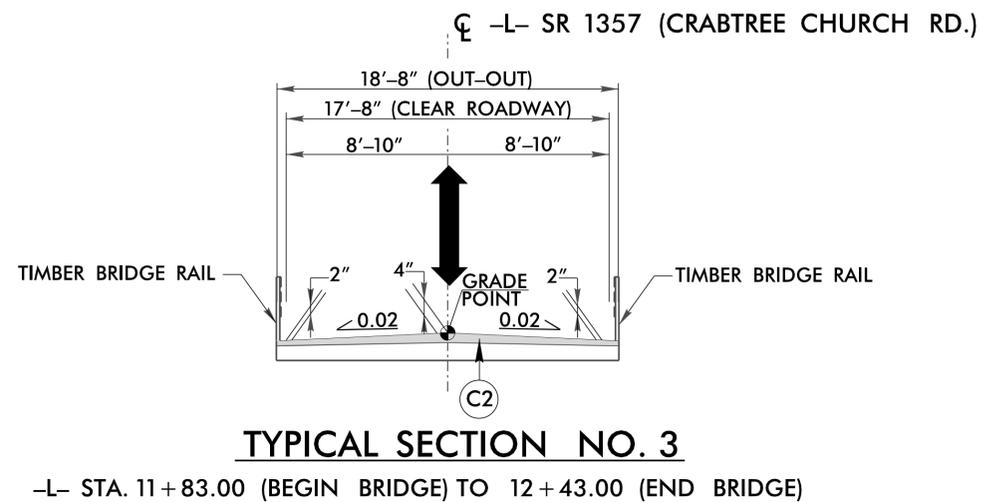
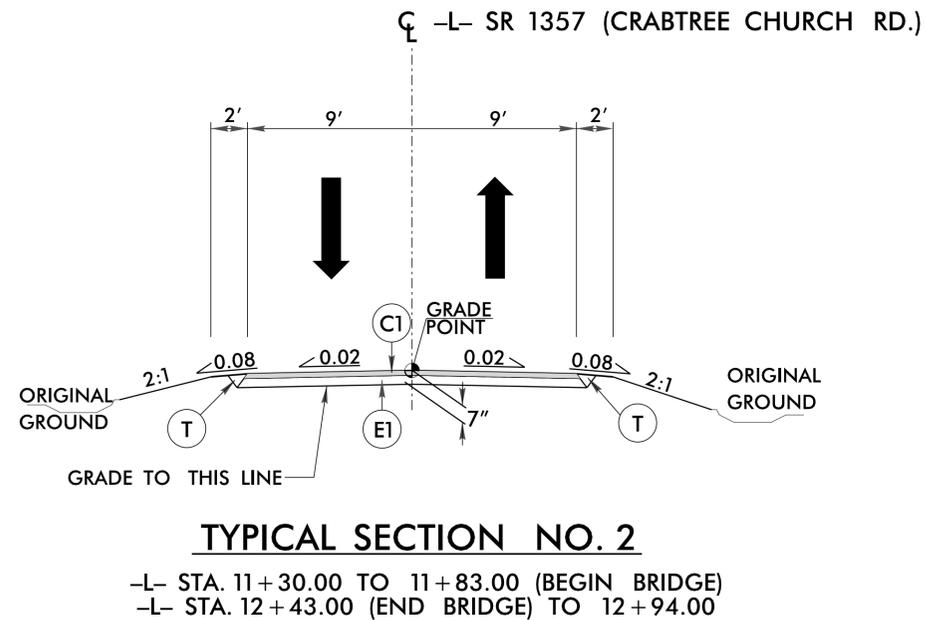
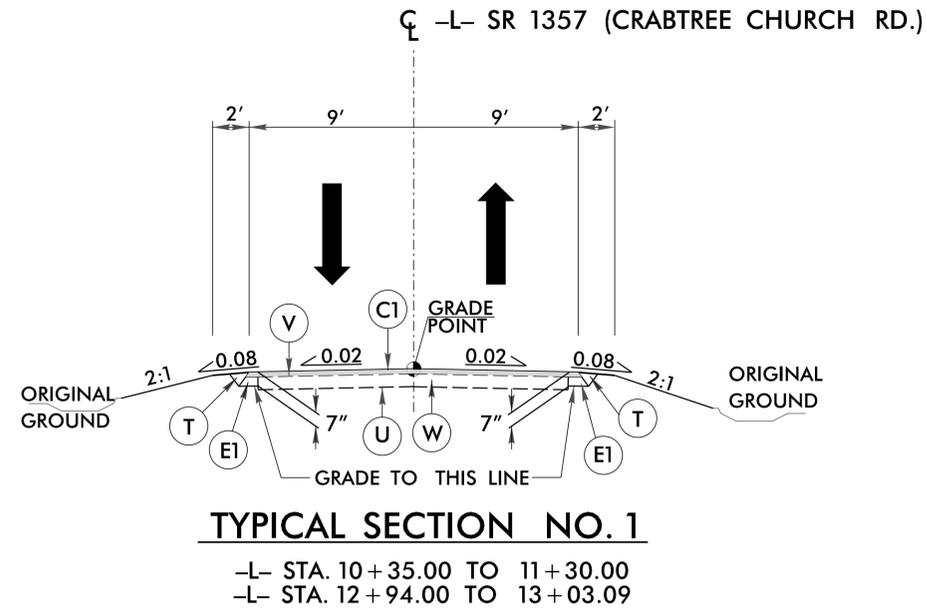
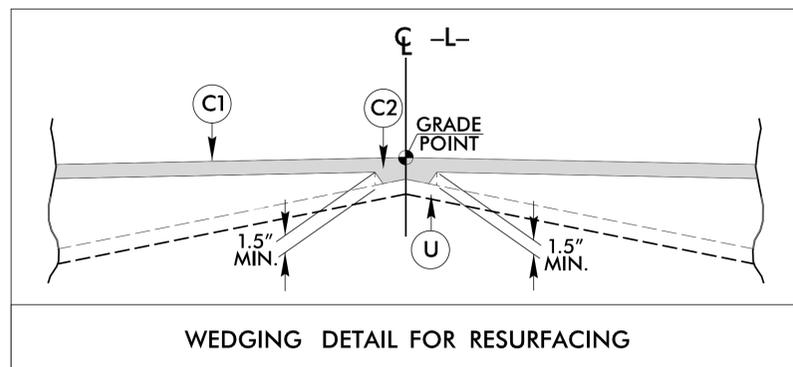
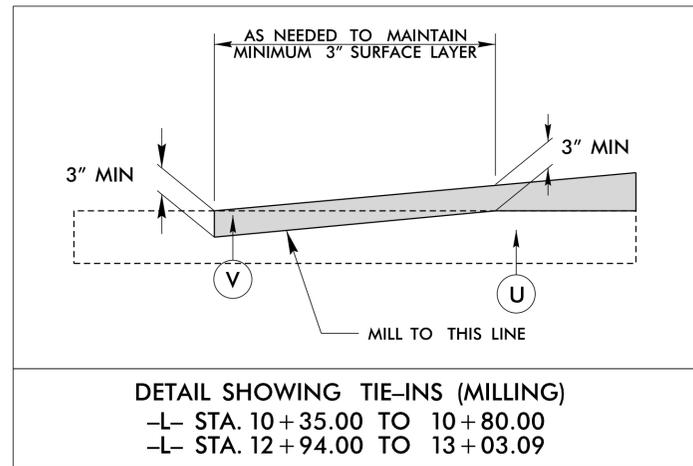
MISCELLANEOUS:

Table listing symbols for 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.

FINAL PAVEMENT SCHEDULE

C1	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.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING OR AS NEEDED
W	WEDGING

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



Signed by: Scott D. Blerins



Signed by: Joseph T. Holland



REVISIONS

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY SHEET
IN CUBIC YARDS**

EARTHWORK SUMMARY

CHAIN	BEGINNING STATION	ENDING STATION	UNCL. EXCA. C.Y.	UNDERCUT C.Y.	EMBANK. +% C.Y.	BORROW C.Y.	WASTE C.Y.
SUMMARY 1							
-L-	10+35.00	11+83.00	20		44	23	
-L-	12+43.00	13+03.09	21		28	7	
SUBTOTAL			41		71	30	
SHEET TOTALS			41		71	30	
PROJECT TOTAL			41		71	30	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT						1	
GRAND TOTAL			41			31	
SAY			50			40	

PAVEMENT REMOVAL SUMMARY

LINE	STATION	STATION	LOCATION	LENGTH OR AREA	WIDTH	SQUARE YARDS
-L-	11+30	11+68	LT/RT	643.70		71.52
-L-	12+50	12+94	LT/RT	984.83		109.43
					TOTAL	180.95
					SAY	190

NOTE:
APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, SHOULDER BORROW, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR GRADING.

5/26/20



Signed by:
Scott D. Blarino

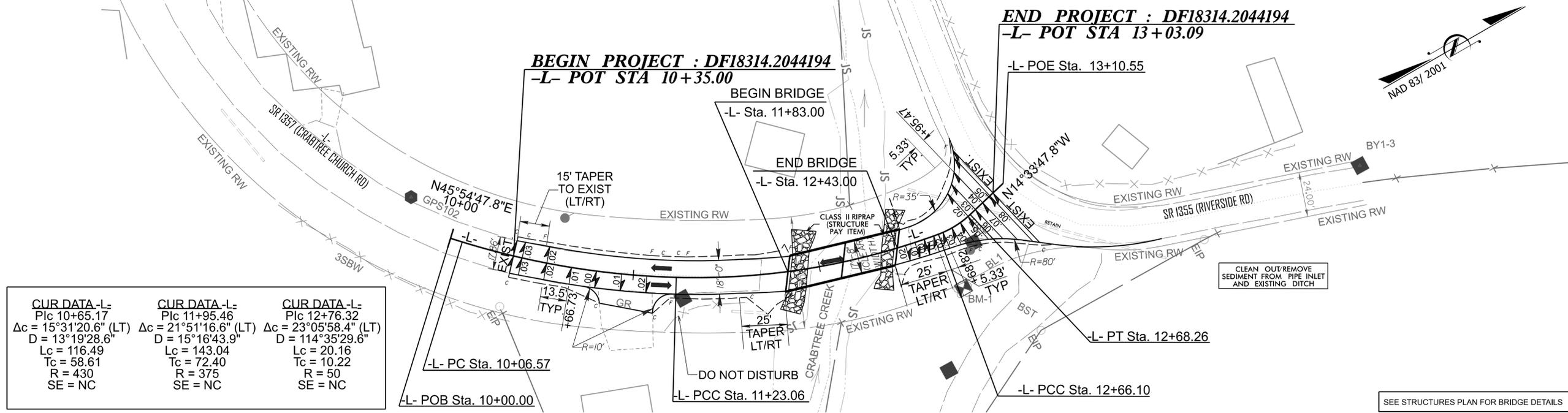


Designed by:
Eleni M. Riggs

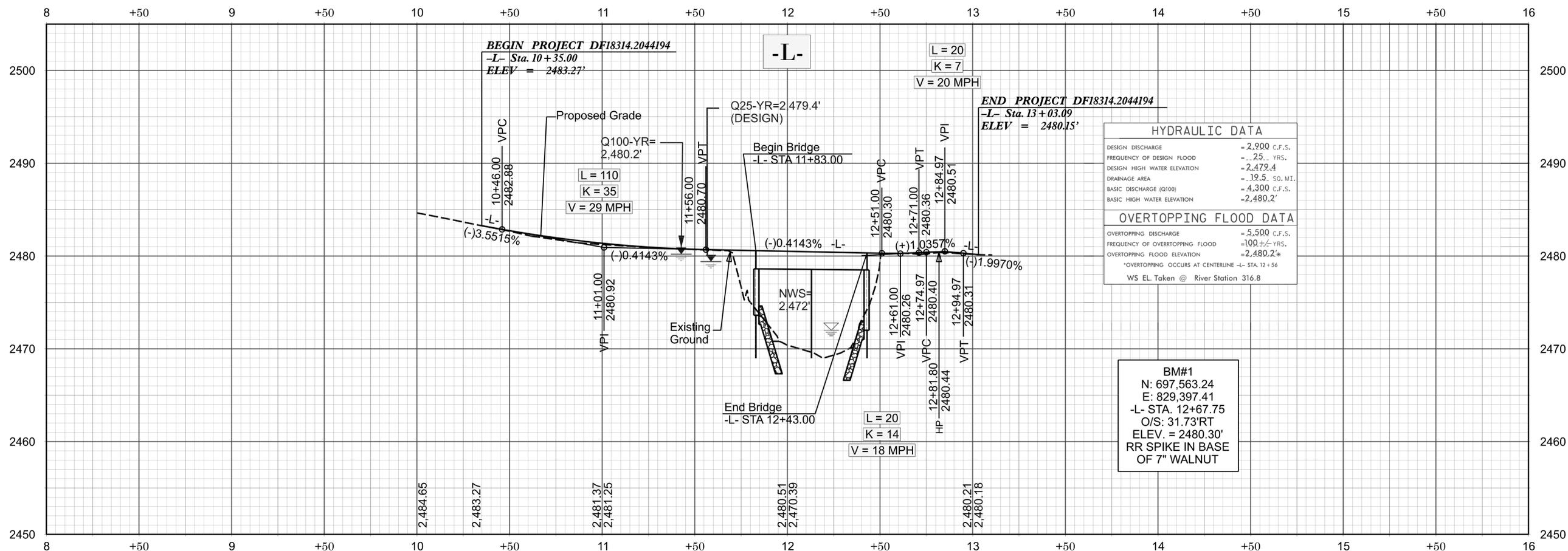


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REVISIONS



CUR DATA -L-	CUR DATA -L-	CUR DATA -L-
Plc 10+65.17	Plc 11+95.46	Plc 12+76.32
$\Delta c = 15^\circ 31' 20.6''$ (LT)	$\Delta c = 21^\circ 51' 16.6''$ (LT)	$\Delta c = 23^\circ 05' 58.4''$ (LT)
D = 13°19'28.6"	D = 15°16'43.9"	D = 114°35'29.6"
Lc = 116.49	Lc = 143.04	Lc = 20.16
Tc = 58.61	Tc = 72.40	Tc = 10.22
R = 430	R = 375	R = 50
SE = NC	SE = NC	SE = NC



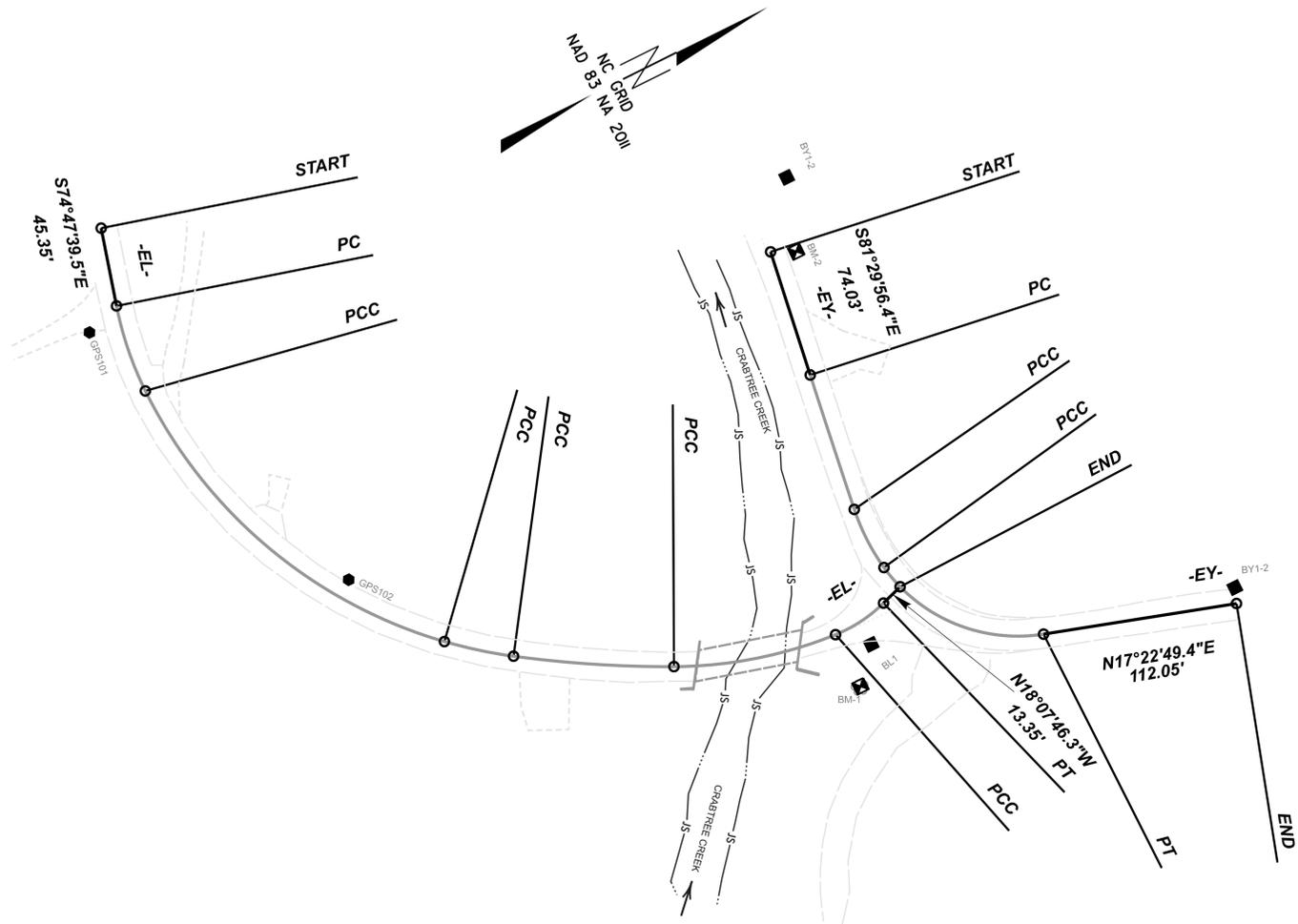
BM#1
 N: 697,563.24
 E: 829,397.41
 -L- STA. 12+67.75
 O/S: 31.73'RT
 ELEV. = 2480.30'
 RR SPIKE IN BASE
 OF 7" WALNUT

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BP14R032 BASELINE POINT TABLE				
POINT	DESC	NORTH	EAST	ELEVATION
1	BL1	697579.460	829378.600	2480.83
101	GPS101	697257.080	829019.590	2502.36
102	GPS102	697327.400	829212.350	2485.28
2	BY1-2	697654.760	829117.690	2473.7
3	BY1-3	697780.750	829442.150	2490.44

BENCHMARK				
BM1	697563.240	829397.410	2480.30	BM1 IS RR SPIKE IN BASE OF 7" WALNUT
BM2	697640.800	829158.190	2475.54	BM2 IS HIGH CORNER OF WINGWALL



I, R. L. Zietlow, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made by NCDOT and the following information was used to perform the survey:

Class of survey: AA
 Type of GPS field procedure: RTN
 Dates of survey: 5/25/23-8/28/23
 Datum/Epoch: NAD 83 NA 2011
 Published/Fixed-control use: Project Control
 Localized around: bp14r032-G102
 Northing: 697327.397
 Easting: 829212.354
 Combined grid factor: 0.999771344
 Geoid model: G18NC
 Units: US Survey Foot

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 2/20/23 to 5/24/23, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable. This 28th day of August, 2023.

DocuSigned by:

 R. L. Zietlow
 Professional Land Surveyor L-5235

BP14R032
 R/W 02C-1
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

 PROFESSIONAL LAND SURVEYOR

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 2024 STANDARD SPECIFICATIONS

TIP PROJECT: BP14R032
 County: HAYWOOD

EXISTING ALIGNMENT NAME: EY1- S.R. 1355 (RIVERSIDE DR.)									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	697627.550	829151.810							
LINE			S81°29'56"E	74.03					
PC	697616.600	829225.040							
CURVE					00°34'40" Left	00°42'49"	80.94	40.47	8028.00
PCC	697605.040	829305.140							
CURVE					17°20'15" Left	46°12'23"	37.52	18.91	124.00
PCC	697605.530	829342.520							
CURVE					63°12'20" Left	60°33'59"	104.36	58.21	94.60
PT	697670.600	829417.330							
LINE			N17°22'49"E	112.05					
END	697777.530	829450.800							

EXISTING ALIGNMENT NAME: EL1- S.R. 1357 (CRABTREE CHURCH RD.)									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	697289.620	828968.080							
LINE			S74°47'39"E	45.35					
PC	697277.720	829012.850							
CURVE					15°13'10" Left	29°32'02"	51.53	25.92	194.00
PCC	697270.930	829063.760							
CURVE					47°25'07" Left	20°36'36"	230.08	122.09	278.00
PCC	697360.870	829268.450							
CURVE					08°30'59" Left	20°59'15"	40.58	20.33	273.00
PCC	697392.680	829293.580							
CURVE					07°56'08" Left	08°36'11"	92.24	46.19	666.00
PCC	697472.440	829339.780							
CURVE					21°48'43" Left	22°55'06"	95.03	48.09	250.00
PCC	697563.580	829364.590							
CURVE					22°28'00" Left	67°48'20"	33.13	16.78	84.50
PT	697596.260	829360.640							
LINE			N18°07'46"W	13.35					
END	697608.950	829356.480							

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PREPARED FOR



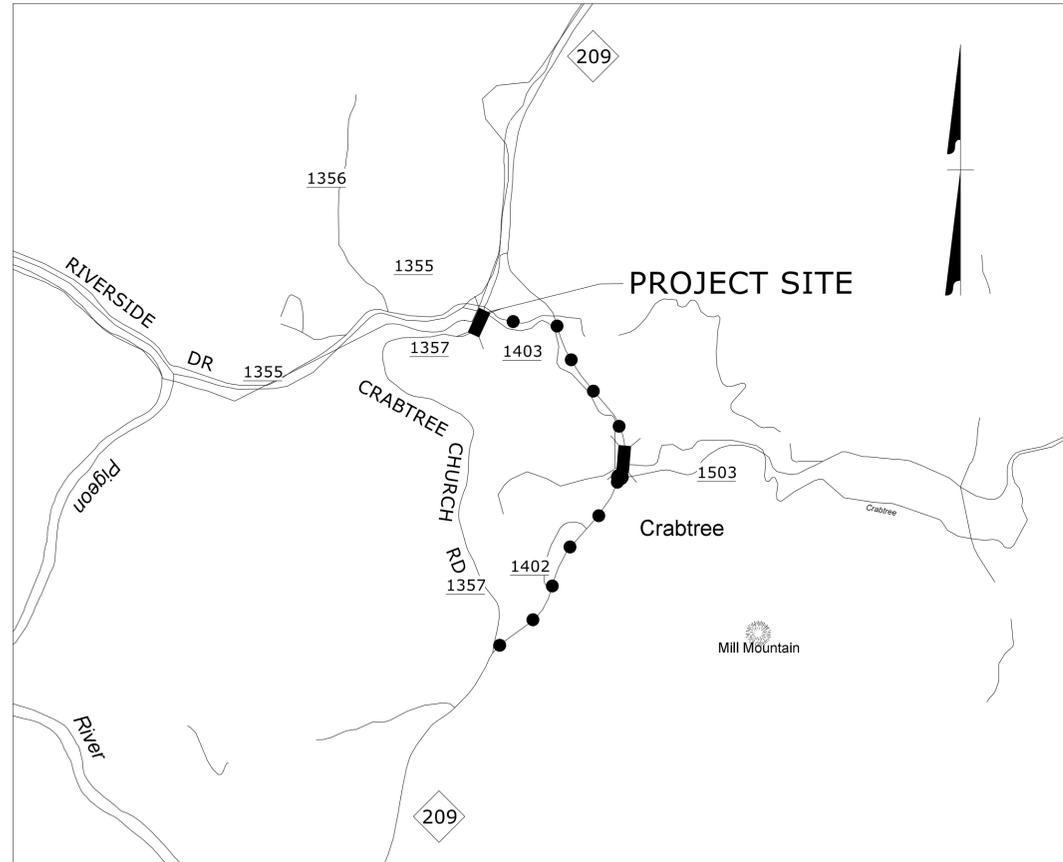
PREPARED BY
 LOCATION AND SURVEYS UNIT

PREPARED BY
 MATTERN AND CRAIG
 12 BROAD ST.
 ASHEVILLE NC 28801

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

HAYWOOD COUNTY



SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	GENERAL NOTES & TRAFFIC CONTROL PHASING
TMP-2	OFFSITE DETOUR DETAIL
TMP-3	SIGN DESIGNS

SHEET NO.
TMP-1

PROJECT:DF18314.2044194
CONTRACT:DN01124

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PLANS PREPARED BY:

CHRIS SILVER
PROJECT MANAGER

ALLEN TUTT
PROJECT DESIGNER

NCDOT CONTACTS:

ZACHARY CLARK
PROJECT ENGINEER

PROJECT DESIGN ENGINEER



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NC License No. F-0112
www.rk.com
Engineers | Construction Managers | Planners | Scientists
Responsive People | Creative Solutions

APPROVED: 
DATE: 8/19/2025

SEAL



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- REMOVAL

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM
- SKINNY DRUM
- TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN
- PORTABLE CONCRETE BARRIER
- PORTABLE CONCRETE BARRIER (EXISTING)
- PORTABLE CONCRETE BARRIER (SECTION VIEW)
- DRUM (SECTION VIEW)

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

APPROVED: <i>Christopher R. Silver</i> DATE: 8/18/2025 SEAL 		ROADWAY STANDARD DRAWINGS & LEGEND
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

GENERAL NOTES

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

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

TRAFFIC PATTERN ALTERATIONS

- F) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- G) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- H) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

- I) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

- J) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- K) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- L) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

MISCELLANEOUS

- M) MAINTAIN LOCAL ACCESS TO ALL RESIDENCES AND BUSINESSES.

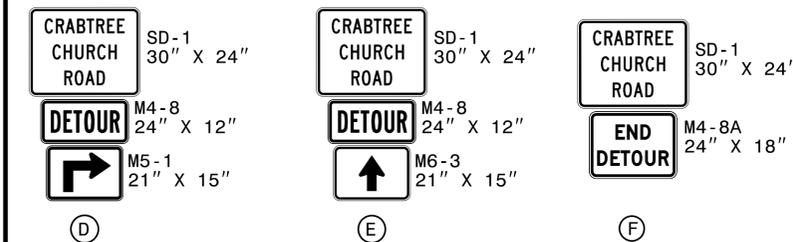
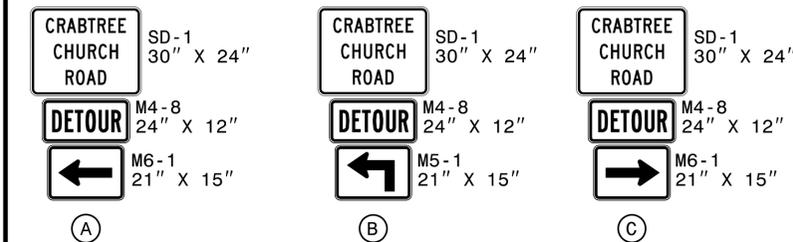
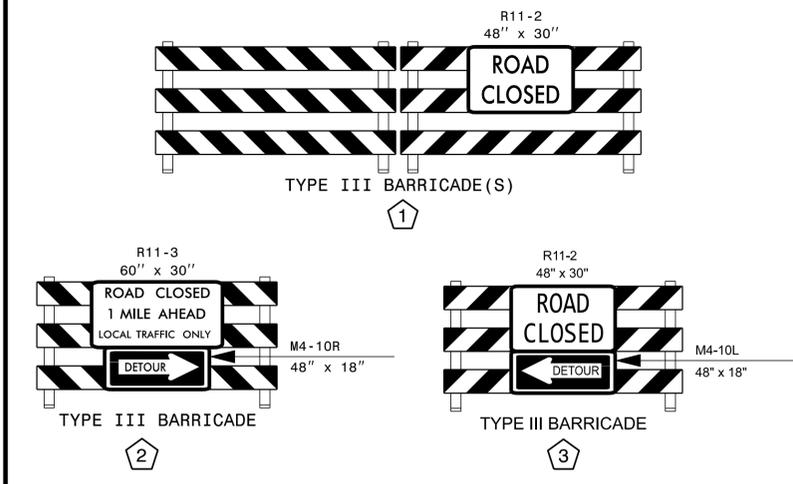
TRAFFIC CONTROL PHASING

STEP 1:
ERECT OFFSITE DETOUR SIGNING AS SHOWN ON TMP-2, AND CLOSE SR 1357 CRABTREE CHURCH RD TO TRAFFIC.

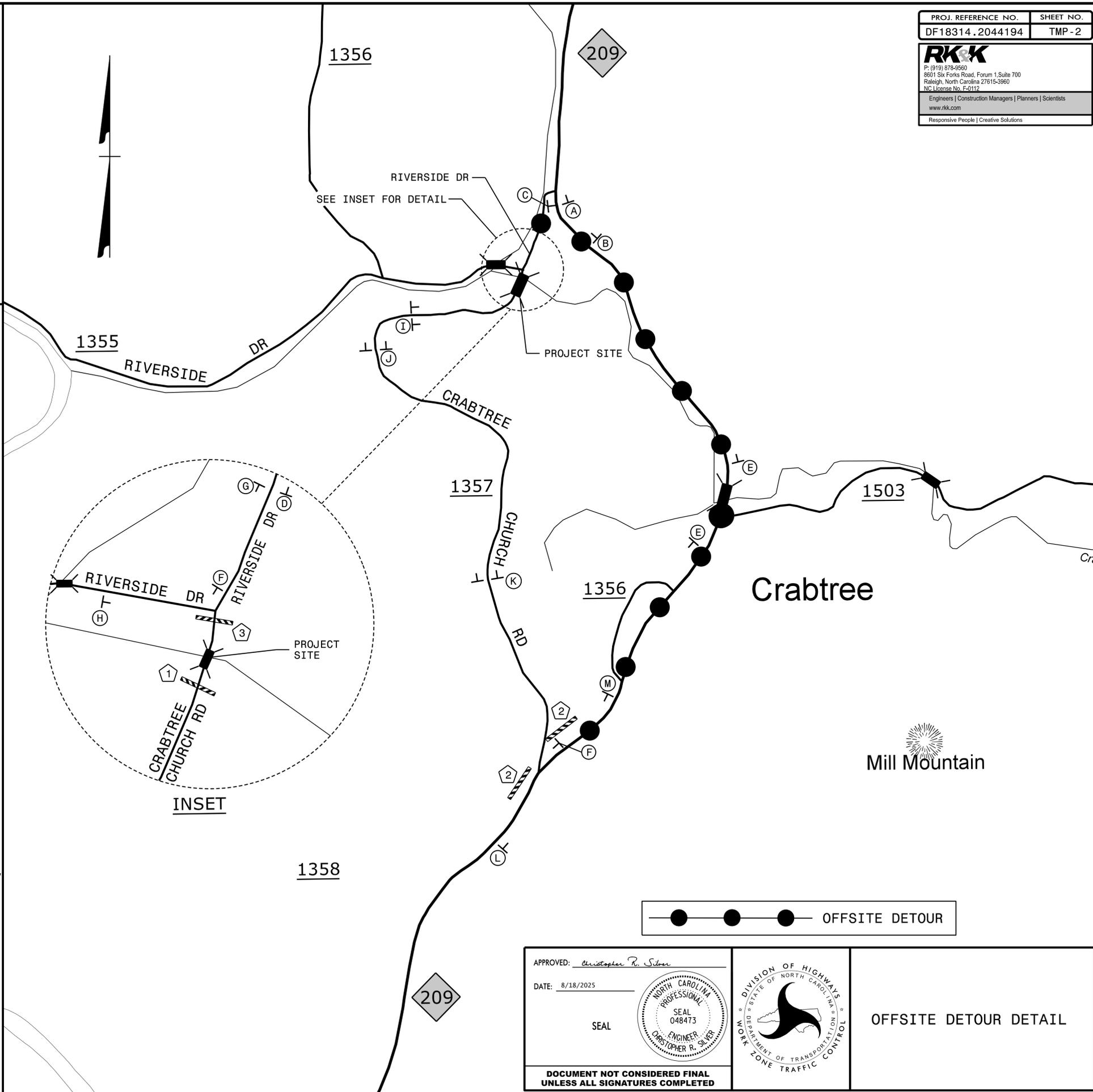
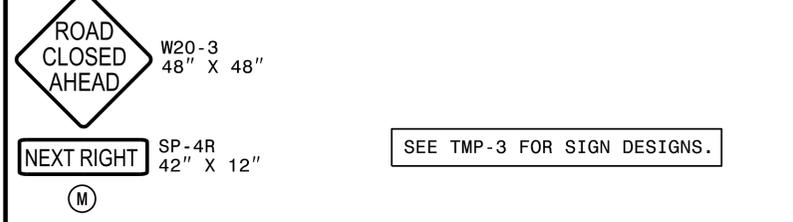
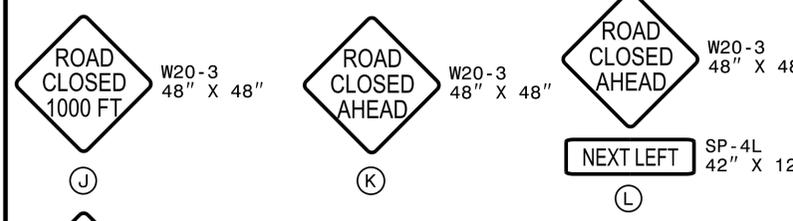
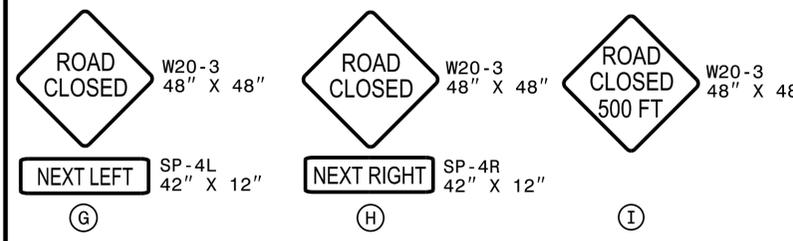
STEP 2:
CONSTRUCT PROPOSED ROADWAY AND BRIDGE THROUGH THE FINAL LAYER OF SURFACE COURSE PER THE ROADWAY PLAN.

STEP 3:
APPLY FINAL PAVEMENT MARKINGS, REMOVE TRAFFIC CONTROL DEVICES AND OPEN SR 1357 CRABTREE CHURCH RD TO TRAFFIC. THE CONTRACTOR MAY USE UP TO FIVE DAYS TO COMPLETE PUNCH LIST ITEMS AFTER OPENING THE ROADWAY OR AS APPROVED BY THE ENGINEER.

APPROVED: <i>Christopher R. Silber</i> DATE: 8/26/2025 SEAL			GENERAL NOTES & TRAFFIC CONTROL PHASING
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



SEE RDWY STD 1101.03 SHEET 1 AND 2 FOR WARNING SIGN SPACING AND ADDITIONAL DETAILS.



APPROVED: Christopher R. Silver

DATE: 8/18/2025

SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



OFFSITE DETOUR DETAIL

TIP NO.	SHEET NO.
DF18314.2044194	PMP - 1
APPROVED: 	
DATE: 8/19/2025	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
HAYWOOD COUNTY**

**LOCATION: REPLACE BRIDGE 41 IN HAYWOOD COUNTY OVER
CRABTREE CREEK ON SR 1357 (CRABTREE CHURCH RD)**

PROJECT: DF18314.2044194

CONTRACT: DN01124

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
-L-	THERMOPLASTIC	NONE
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2	PAVEMENT MARKING DETAIL

PAVEMENT MARKING SCHEDULE

THERMOPLASTIC LINES(24", 90 MIL)

T61 WHITE STOPBAR

THERMOPLASTIC LINES(4", 90 MIL)

T1 WHITE EDGELINE
T5 2 FT.-6 FT./SP WHITE MINISKIP
T13 YELLOW DOUBLE CENTER

PLAN PREPARED FOR: N.C.D.O.T. SIGNING AND DELINEATION UNIT

ANDREW BUCHANAN _____ NCDOT DIVISION CONTACT



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8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112

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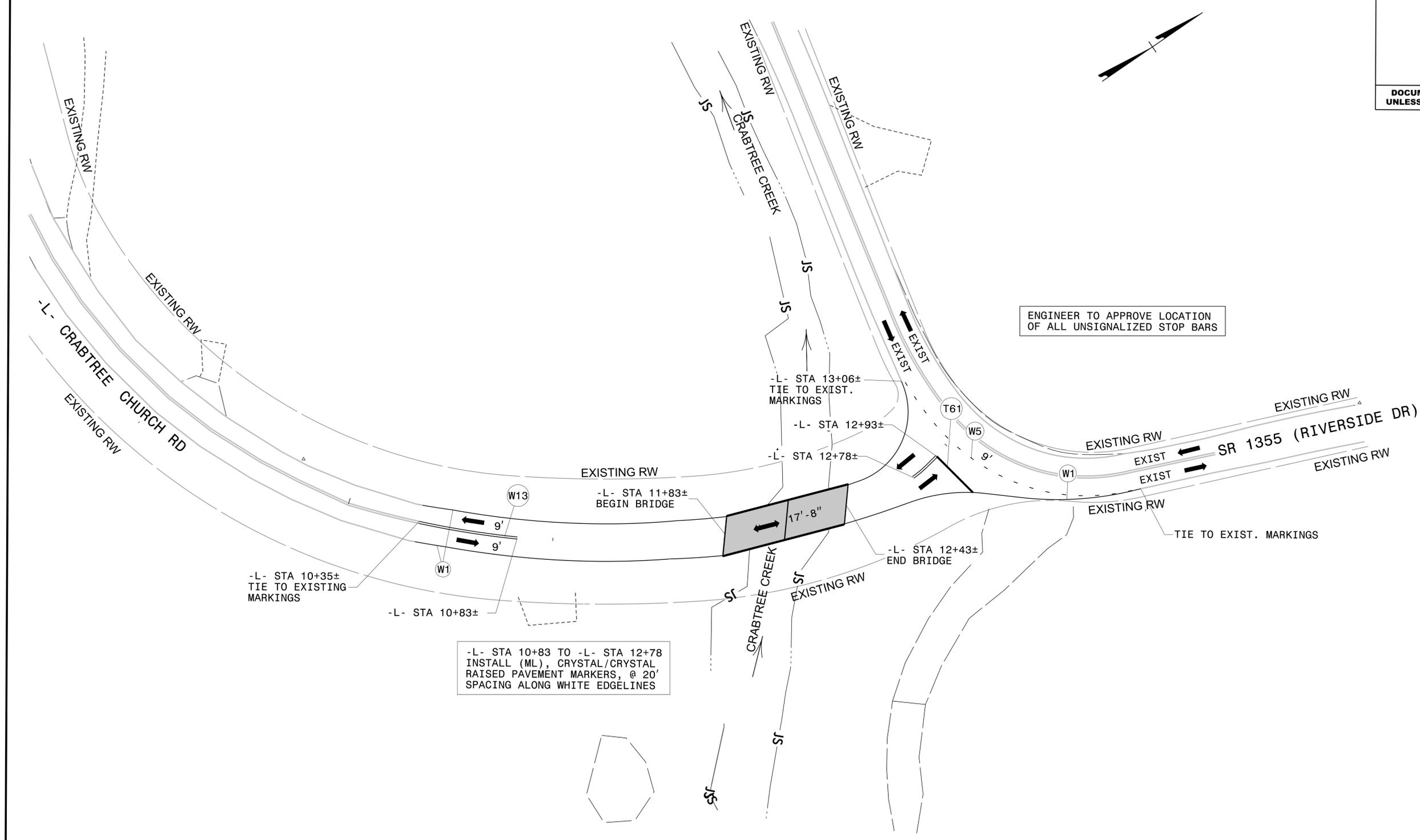
Responsive People | Creative Solutions

PLAN PREPARED BY: RK&K

Chris Silver, PE, PTOE Project Engineer

Allen Tutt Project Designer

PROJECT	SHEET NO.
DF18314.2044194	PMP-2
APPROVED: <i>Christopher R. Silber</i> 15A22018F47F749B	
DATE: 8/18/2025	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

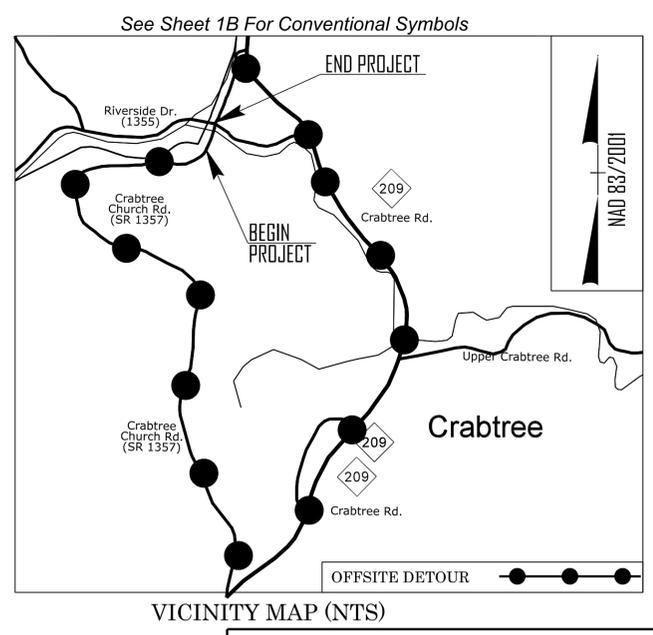


8/18/2025
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PAVEMENT MARKING DETAIL

CONTRACT: DN01124 PROJECT: DF18314.2044194



STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

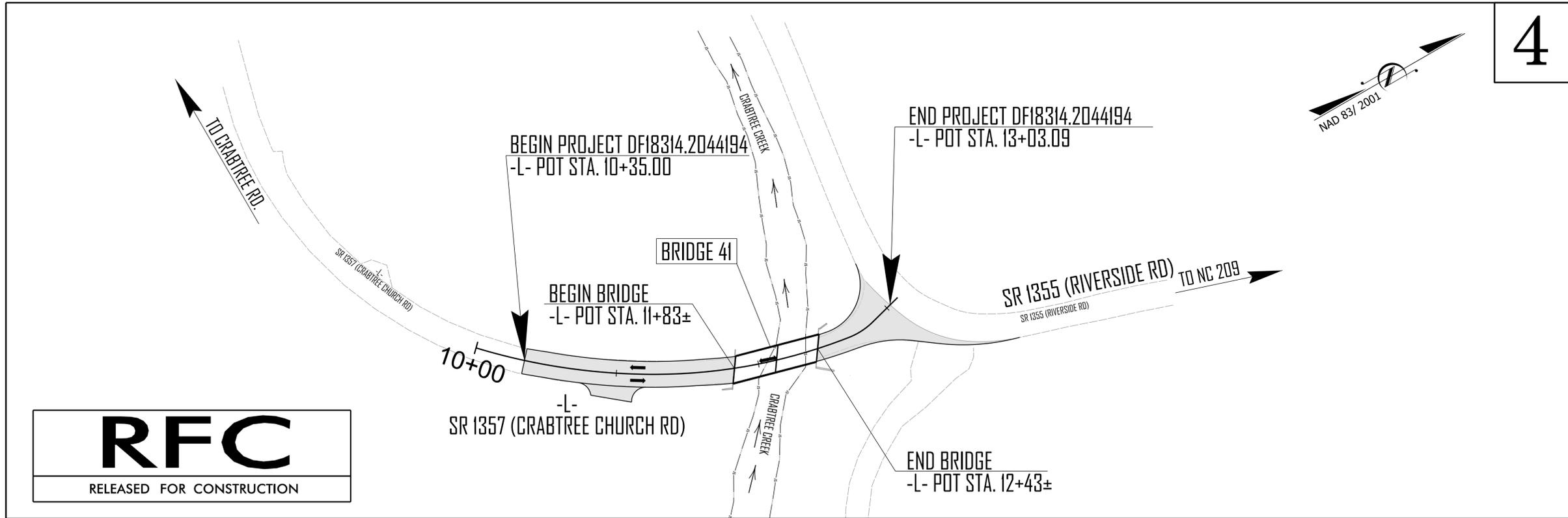
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL

 HAYWOOD COUNTY

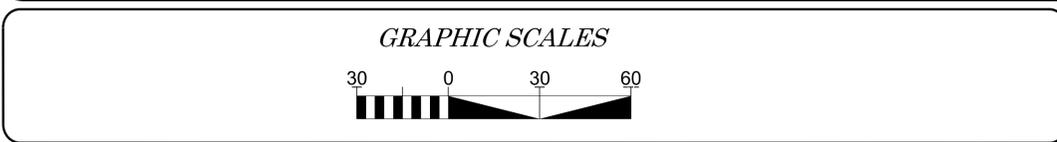
LOCATION: *REPLACE BRIDGE 41 ON SR 1357 (CRABTREE CHURCH RD)
 OVER CRABTREE CREEK*
 TYPE OF WORK: *GRADING, DRAINAGE, PAVING, AND STRUCTURE*

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DF18314.2044194	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
DF18314.2044194		PE, ROW, UTIL. & CONST.	

**THIS PROJECT CONTAINS
 EROSION CONTROL PLANS
 FOR CLEARING AND
 GRUBBING PHASE OF
 CONSTRUCTION.**



**S-018 : RFC EROSION CONTROL PLANS
 DATE: 07/01/2025**



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH
 THE REGULATIONS SET FORTH BY THE NCG 010000 GENERAL
 STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH
 CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF
 ENERGY, MATERIAL, AND LAND RESOURCES.



Prepared in the Office of:
RUMMEL, KLEPPER & KAHL, LLP
 8601 SIX FORKS ROAD, FORUM 1 SUITE 700
 RALEIGH, NORTH CAROLINA 27615-3960
 NC LICENSE NO. F-0112
 1-888-521-4455 OR 919-878-9560

Designed by:
Eleni Riggs **3056**
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings
 The "Roadway Standard Drawings"- Roadway Design Unit - N. C.
 Department of Transportation - Raleigh, N. C., dated January 2024
 and the latest revision thereto are applicable to this project and by
 reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

DF18314.2044194

EC-01A



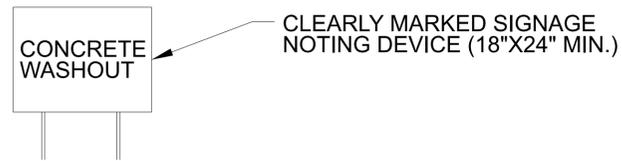
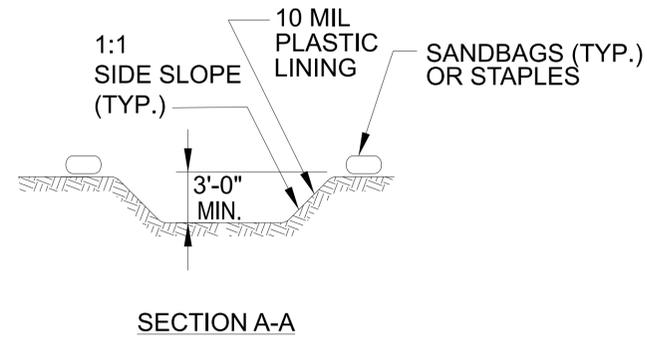
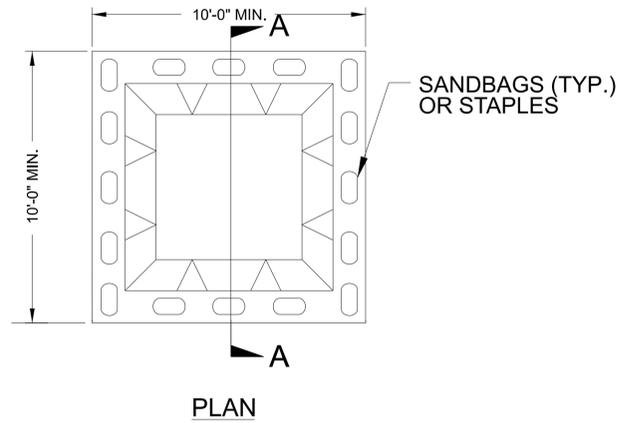
NCDOT DIVISION 14
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

PREPARED BY

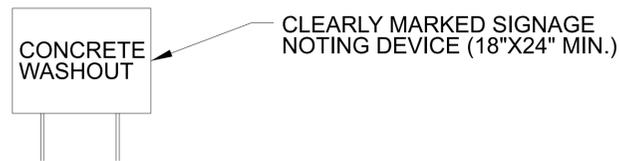
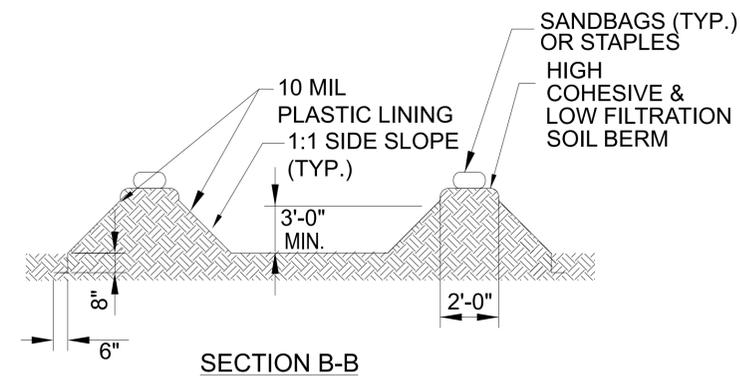
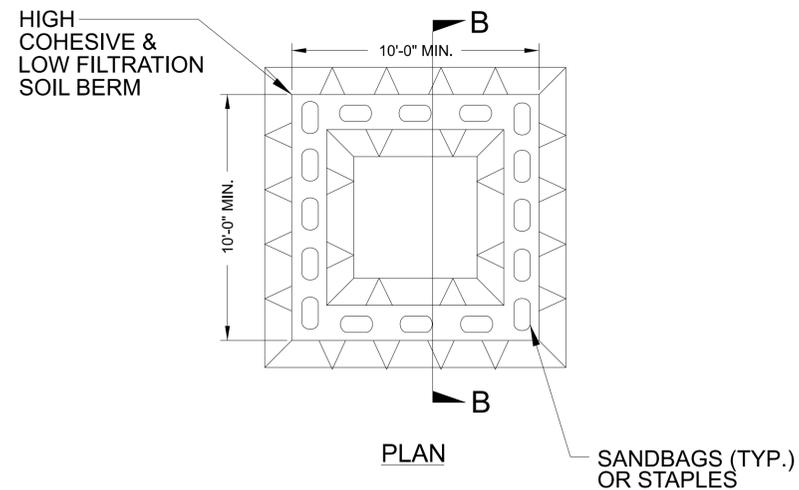
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ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



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STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

DF18314.2044194

EC-03

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
HAYWOOD COUNTY



NCDOT DIVISION 14

ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

PREPARED BY



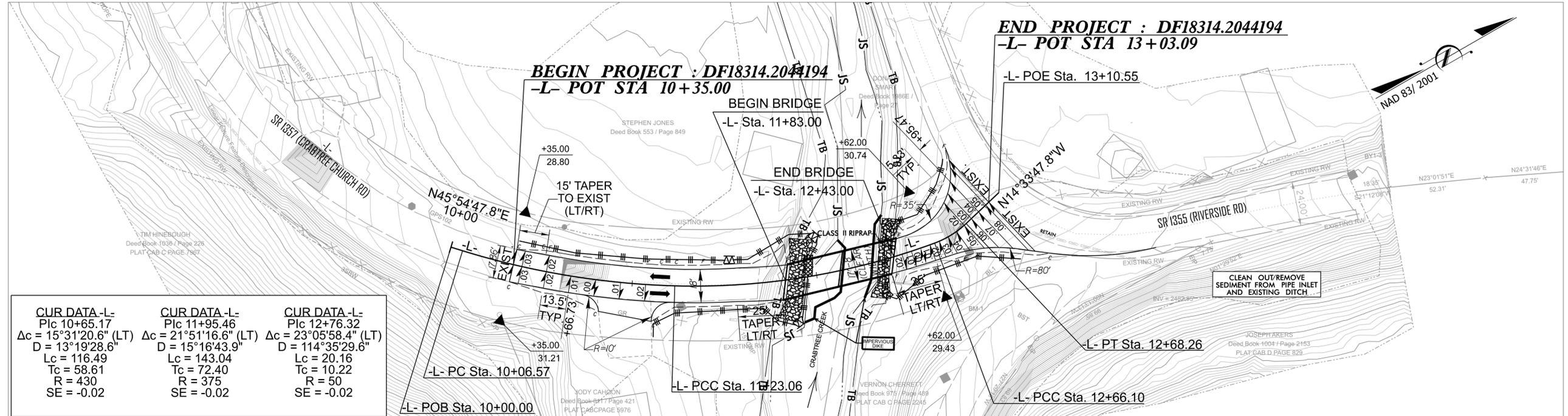
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NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS - A AT DRAINAGE OUTLETS.

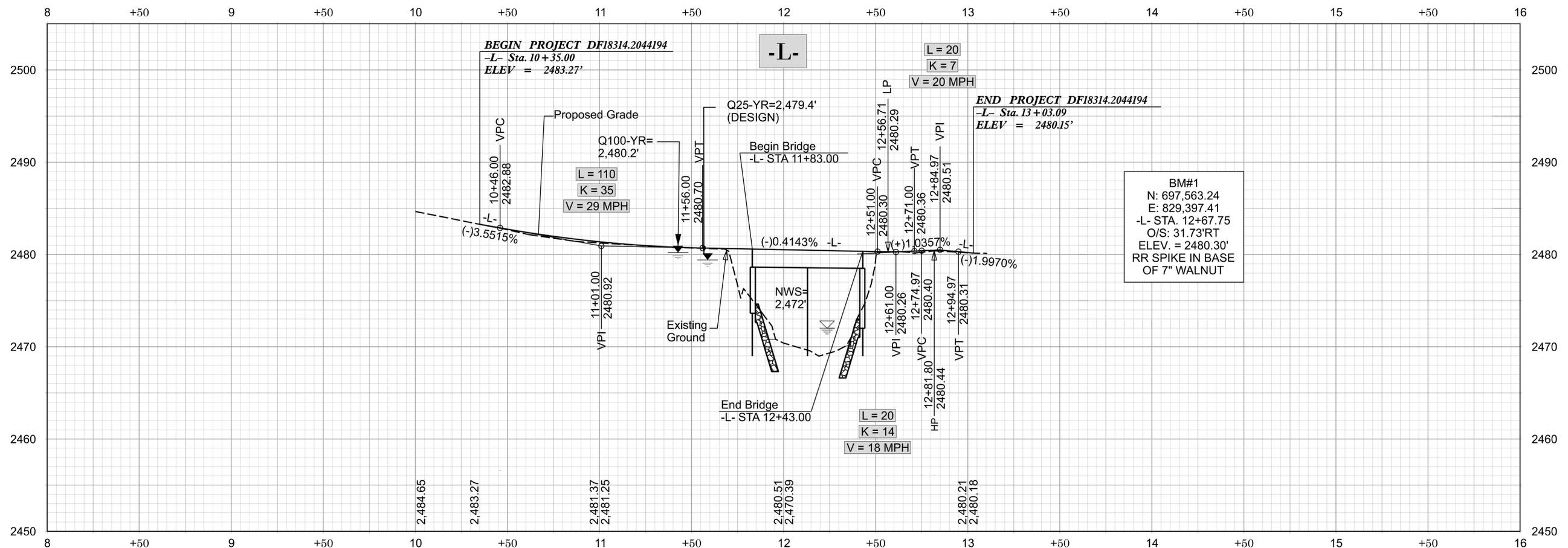
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4



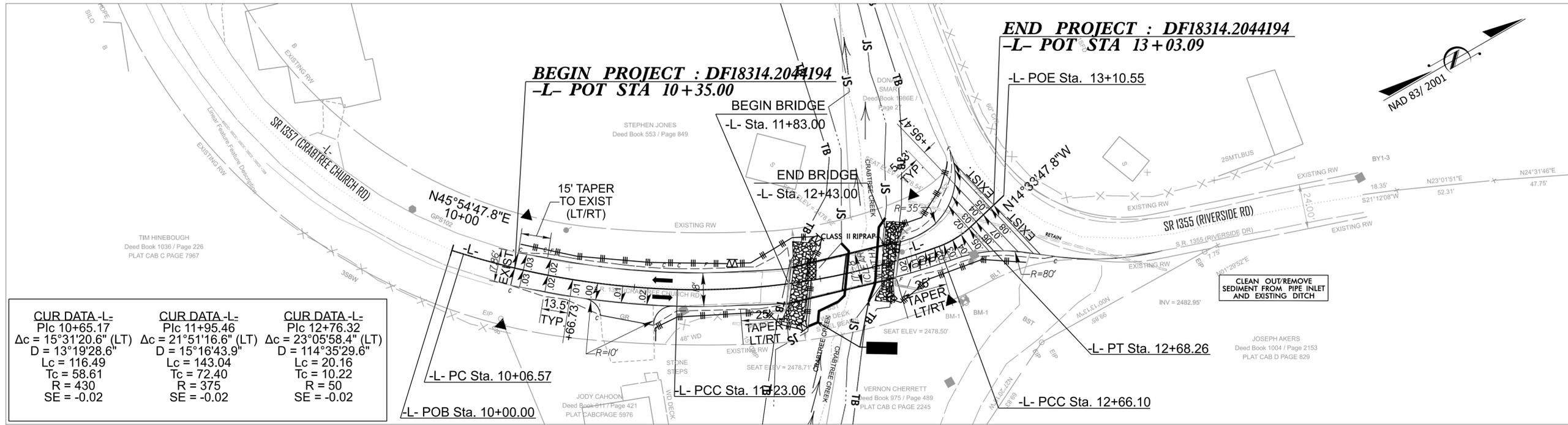
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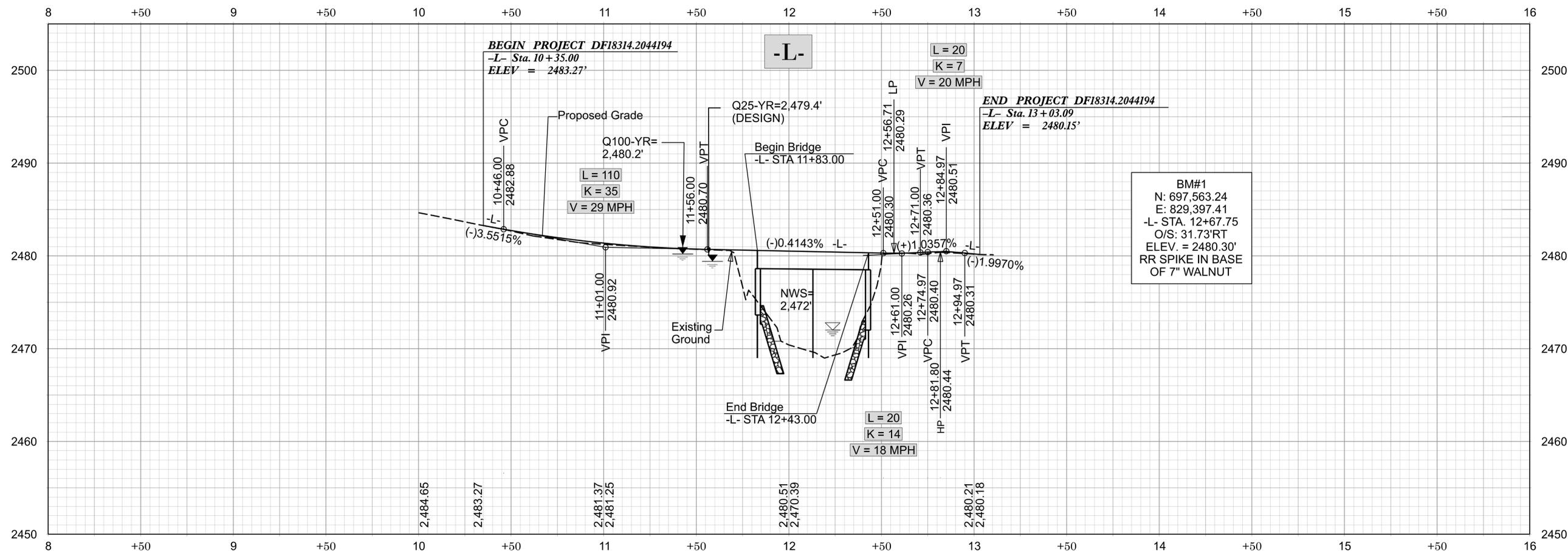
CUR DATA -L-	CUR DATA -L-	CUR DATA -L-
Plc 10+65.17	Plc 11+95.46	Plc 12+76.32
$\Delta c = 15^\circ 31' 20.6''$ (LT)	$\Delta c = 21^\circ 51' 16.6''$ (LT)	$\Delta c = 23^\circ 05' 58.4''$ (LT)
D = 13°19'28.6"	D = 15°16'43.9"	D = 114°35'29.6"
Lc = 116.49	Lc = 143.04	Lc = 20.16
Tc = 58.61	Tc = 72.40	Tc = 10.22
R = 430	R = 375	R = 50
SE = -0.02	SE = -0.02	SE = -0.02



REVISIONS



CUR DATA -L-	CUR DATA -L-	CUR DATA -L-
P/c 10+65.17	P/c 11+95.46	P/c 12+76.32
$\Delta c = 15^\circ 31' 20.6''$ (LT)	$\Delta c = 21^\circ 51' 16.6''$ (LT)	$\Delta c = 23^\circ 05' 58.4''$ (LT)
D = 13°19'28.6"	D = 15°16'43.9"	D = 114°35'29.6"
Lc = 116.49	Lc = 143.04	Lc = 20.16
Tc = 58.61	Tc = 72.40	Tc = 10.22
R = 430	R = 375	R = 50
SE = -0.02	SE = -0.02	SE = -0.02



BM#1
 N: 697,563.24
 E: 829,397.41
 -L- STA. 12+67.75
 O/S: 31.73'RT
 ELEV. = 2480.30'
 RR SPIKE IN BASE
 OF 7" WALNUT

DF18314.2044194

EC-05/CONST.04

NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 HAYWOOD COUNTY

NC DOT DIVISION 14
 ROADWAY DESIGN
 ENGINEER

PAVEMENT DESIGN
 ENGINEER

PREPARED BY
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REVISIONS

08/19/25

PROJECT: DF18314.2044194

CONTRACT: DN01124

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

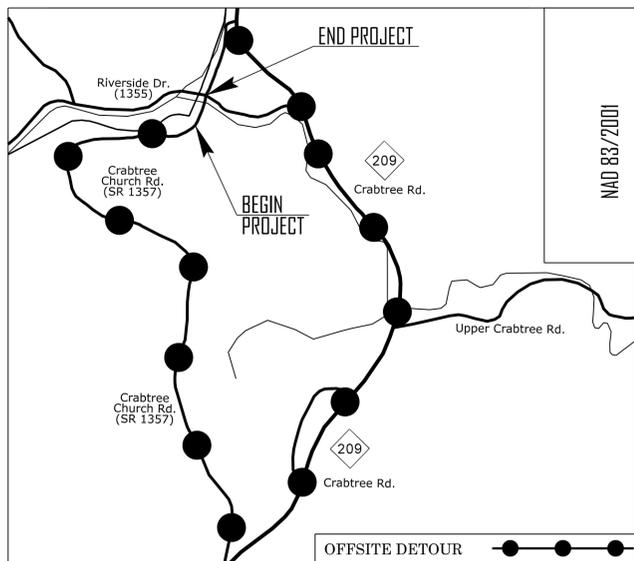
UTILITIES BY OTHERS HAYWOOD COUNTY

LOCATION: *REPLACE BRIDGE 41 IN HAYWOOD COUNTY OVER
CRABTREE CREEK ON SR 1357 (CRABTREE CHURCH RD)*

TYPE OF WORK: *UTILITY*

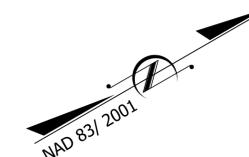
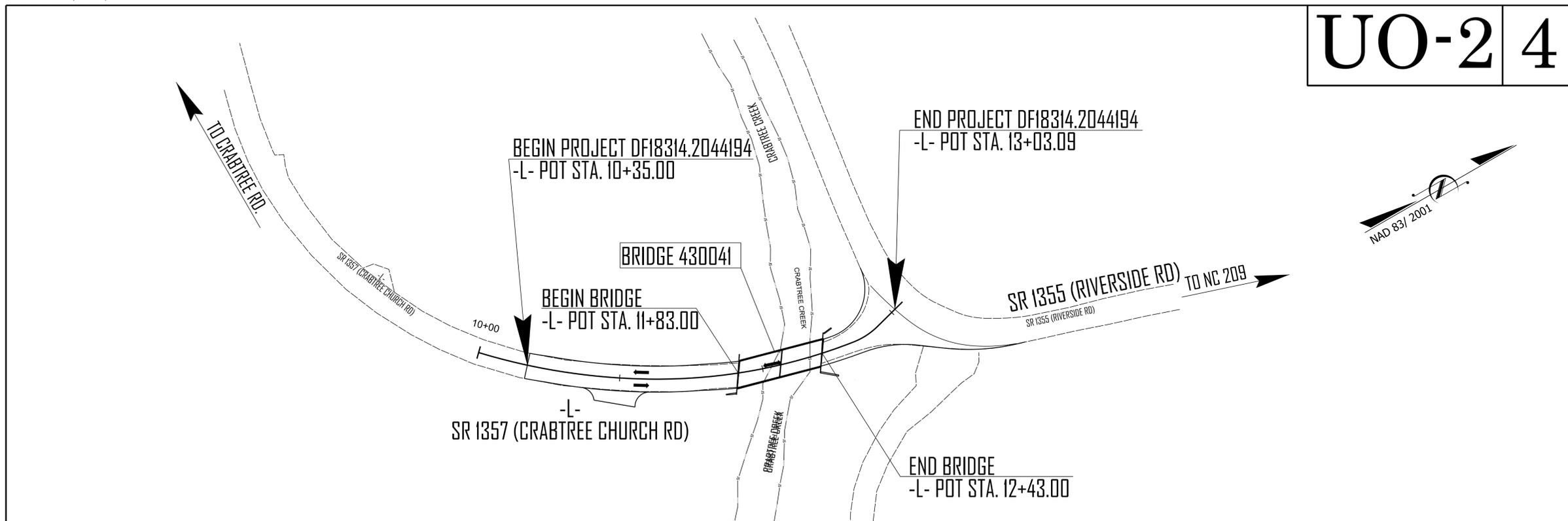
STATE PROJECT REFERENCE NO.	SHEET NO.
DF18314.2044194	UO-1

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.

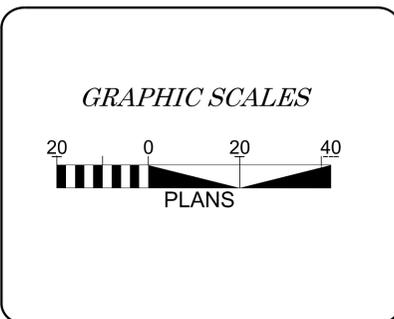


VICINITY MAP (NTS)

UO-2 4



NAD 83/2001



INDEX OF SHEETS	
SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-2	UBO PLAN SHEET

UTILITY OWNERS WITH CONFLICTS
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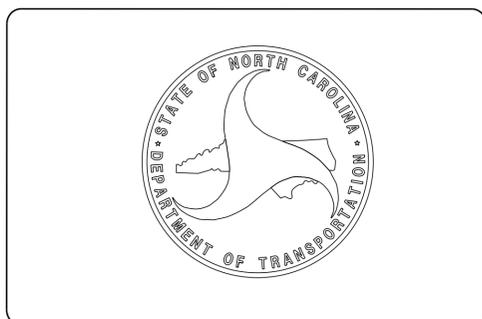
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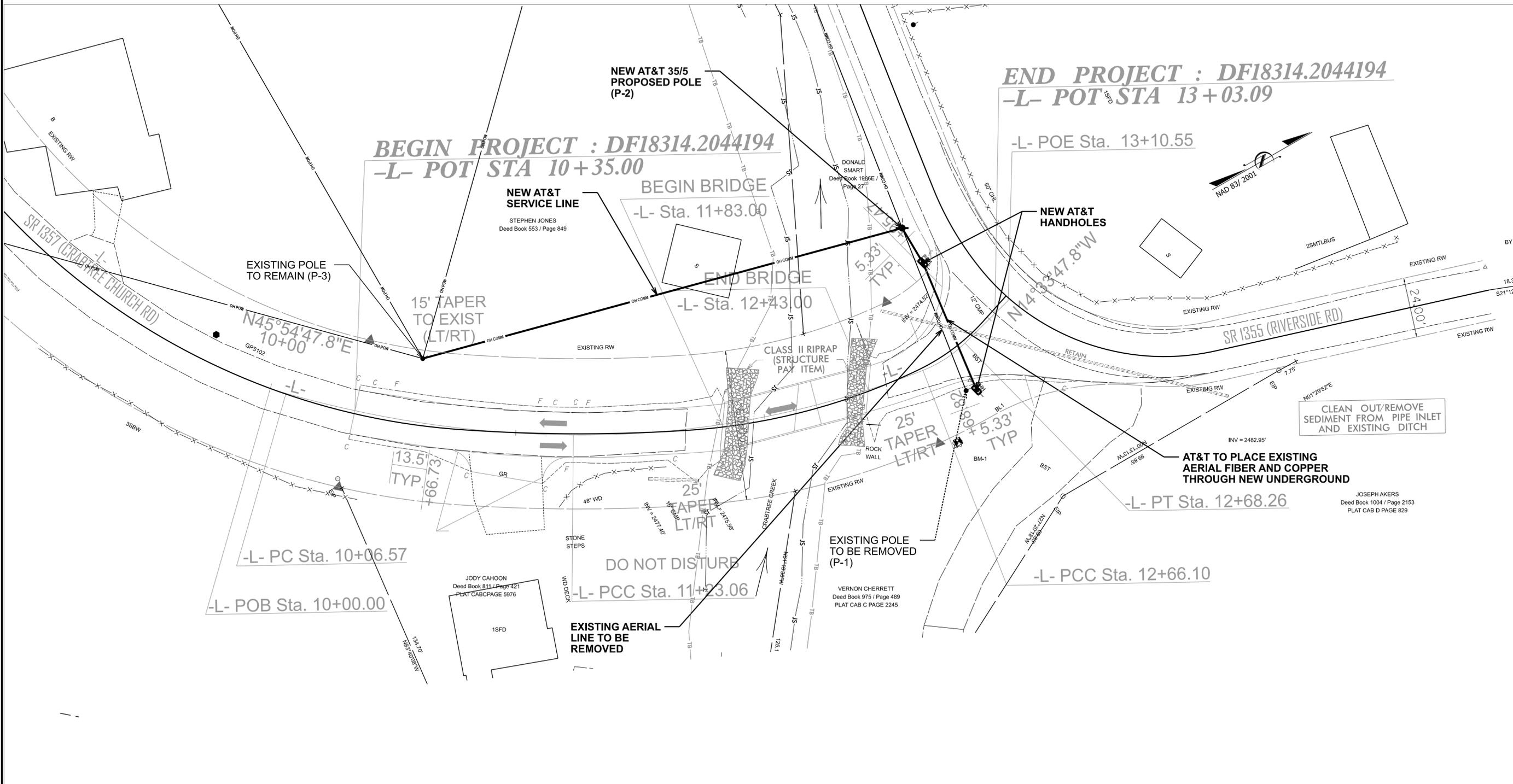
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HAYWOOD COUNTY

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