

# Technical Proposal



## S-31(Cannons Campground Rd.) over Peters Creek – Emergency Bridge Replacement Design-Build Project Contract ID P041165

Spartanburg County, SC



April 15, 2025





## 4.1 Technical Proposal - Narrative



This document is bookmarked for your convenience.  
Green and underlined text within this document indicates  
a **HYPERLINK** and will take you to more detailed information.

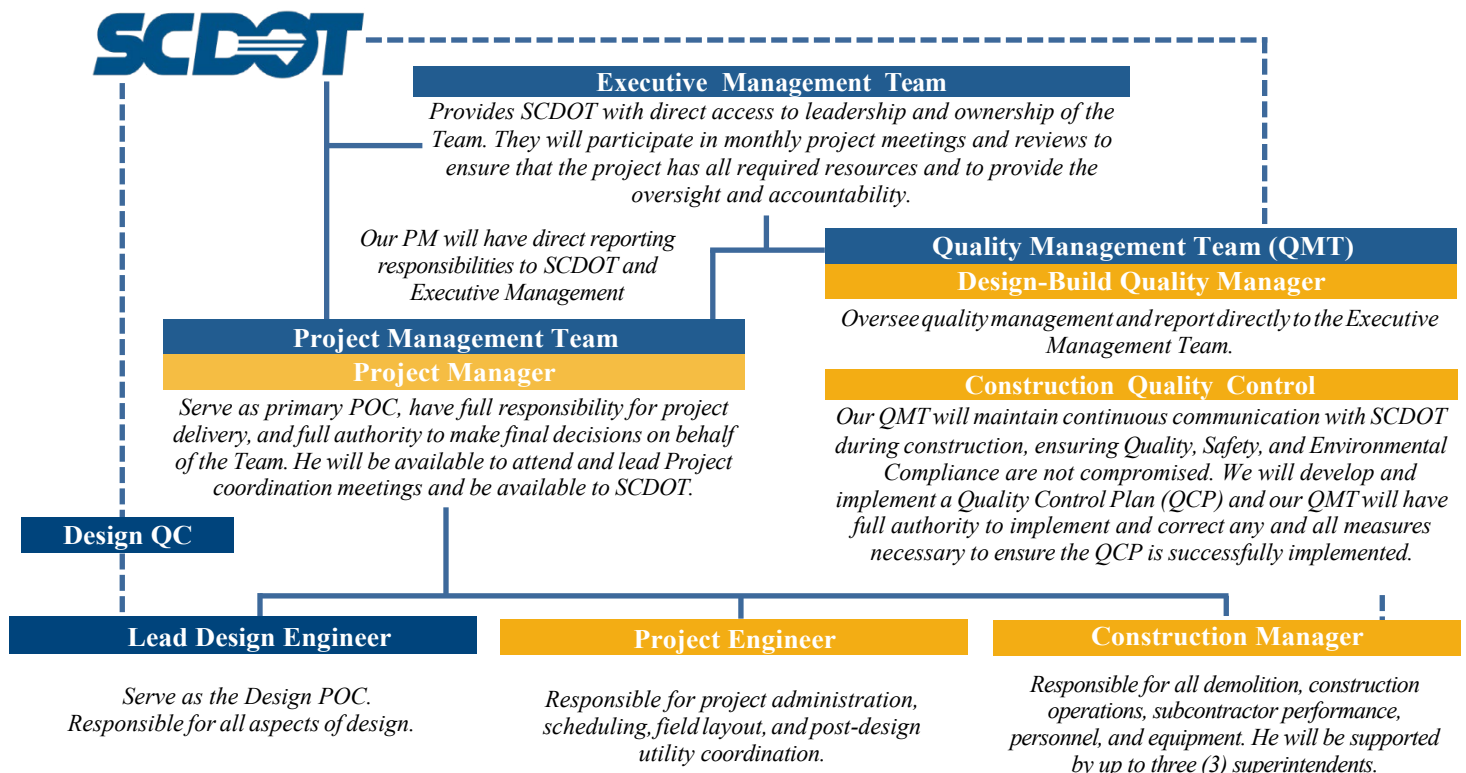


To return to your previous location, simply type **Alt and Back Arrow**

[Technical Proposal Narrative](#) | [A.1 - Bridge Plans](#) | [A.2 - Roadway Plans](#) | [B - Forms](#) | [C - ATCs](#)



**Project Delivery and Approach** | Immediately upon invitation, Reeves contacted our trusted design partner, KCI, to form a proven DB Team to assist SCDOT with this critical Project. Our Team immediately recognized the need for heightened communication and accountability during execution, due to the accelerated timeline for this Project. Communication is critical on all projects; however, an undertaking of this magnitude magnifies the importance. Reeves and KCI have developed highly successful communication protocols and collaboration through many ventures over the past 10 years, including successfully completing the Gaffney T-Bridge. The Reeves-KCI DB Team is dedicated to seamless communication and partnering with all stakeholders. We will further enhance our protocols and create a plan to fit this Project. *The exhibit below briefly illustrates our proposed managerial and operations structure, including reporting responsibilities and clear lines of communication.*



Reeves and KCI will capitalize upon our established working relationship to accelerate design, constructability review, and design submittals and provide the earliest possible start date for this structure.

Reeves will aggressively mobilize crews and equipment to the site and utilize methods and processes that we have developed in delivering our previous CLRB DB contracts. Our approach is to utilize crews coming available this spring from projects located in Greenwood and Newberry Counties to the S-31 Cannons Campground bridge. These seasoned crews, who also worked on CLRB packages 2020-1 and 2021-1, will be directed by a Construction Manager who will



manage all construction. Grading and asphalt crews are available from our Duncan location, only 30 minutes away.

The bridge will be of conventional construction using prestressed concrete beams with a cast-in-place deck on steel piles, integral end bents with multi-column, drilled shaft interior bents (See [Appendix A](#)). The DB Team has invested significant pursuit time in the mitigation of utility impacts. The bridge and roadway concept were designed with special attention given to accommodating existing utilities, including avoiding impacts to the 42-in transmission water main on the west side and the water, sewer, and gas facilities on the east. We obtained and reviewed Duke Energy's overhead 100kV transmission crossing sag curve and see no constructability concerns with proper clearances to their facilities. KCI's experience working with and for Duke Energy distribution aided us in mitigating the double-circuit overhead facilities along the east side of S-31. The DB Team presented an ATC to reduce the number of beam lines in the bridge and modify the beam spacing to increase the clearance from the electrical distribution lines (See [Appendix C](#)). This approved ATC will enhance schedule certainty and improve safety. Minimum clearances to the distribution lines for the proposed bridge and roadway construction were evaluated and determined to be acceptable without relocation. This is a key element to meeting the schedule; if relocations are needed, it involves Duke, as well as AT&T and Spectrum, who have telecommunication lines attached to Duke's poles. Upon award, further effort will be invested to ensure no relocations are needed or that they can be done without impacting the aggressive construction schedule. Regarding avoidance of right-of-way impacts, our design approach will utilize reinforced soil slopes to keep the proposed improvements within the present right-of-way.

In addition to the precursor contract deliverables (Submittal 000), our design submittals approach will include utilizing the highly advanced set of Technical Proposal Plans as Preliminary Plans, and since the project doesn't require right-of-way, we will proceed directly to Final Plans for all disciplines. Per the contract, SCDOT has five business days for plan reviews. We will follow up close out of the Final Plan review comments with RFC plans targeted for 6/30/25 to allow time for Reeves to construct the project.

**Permitting** | To maintain the project schedule, the DB Team will keep the project limits as compact as possible. Our design will limit the disturbed acreage to under one acre, to avoid the need for a full Notice of Intent (NOI). This will greatly reduce the permitting timeframe as SCDES does not require review of the NOI for sites under one acre. For US Army Corps of Engineers Section 404 permitting, the construction will be permitted under a Nationwide 3 no-notify permit. KCI has already prepared the permitting package for Reeves, which includes the

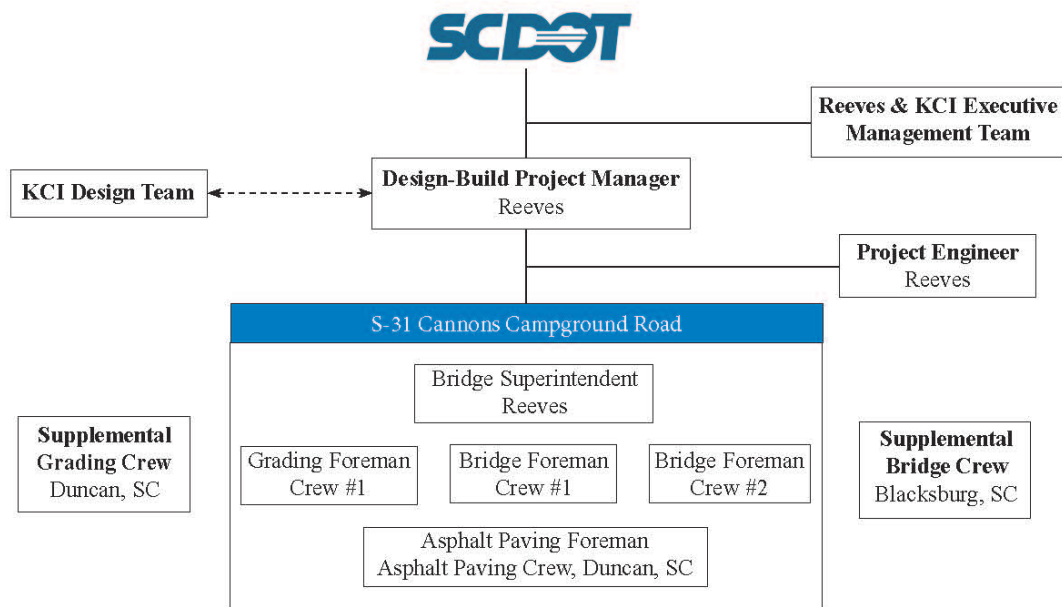




USACE Charleston District Nationwide 3 checklist along with the general and regional conditions for nationwide permits.

The project location is within a FEMA Zone AE special flood hazard area without floodway. The DB Team anticipates that a No-Impact certification is feasible. The DB Team will coordinate with the Spartanburg County floodplain administrator to meet any floodplain requirements.

Organizational Chart |



Project Major Milestones |

	2025							2026			
	April	May	June	July	August	September	October	November	December	January	February
Bid Opening (4/17/2025)											
Anticipated NOA/NTP (4/31/2025)											
Substantial Completion (11/29/2025)											
Contract Completion (2/26/2026)											
Design (KCI/F&ME)											
Utility Coordination											
Construction											

## Appendix A.1 - Bridge Plans



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[Technical Proposal Narrative](#) | [A.1 - Bridge Plans](#) | [A.2 - Roadway Plans](#) | [B - Forms](#) | [C - ATCs](#)



# APPENDIX A.1

# CONCEPTUAL

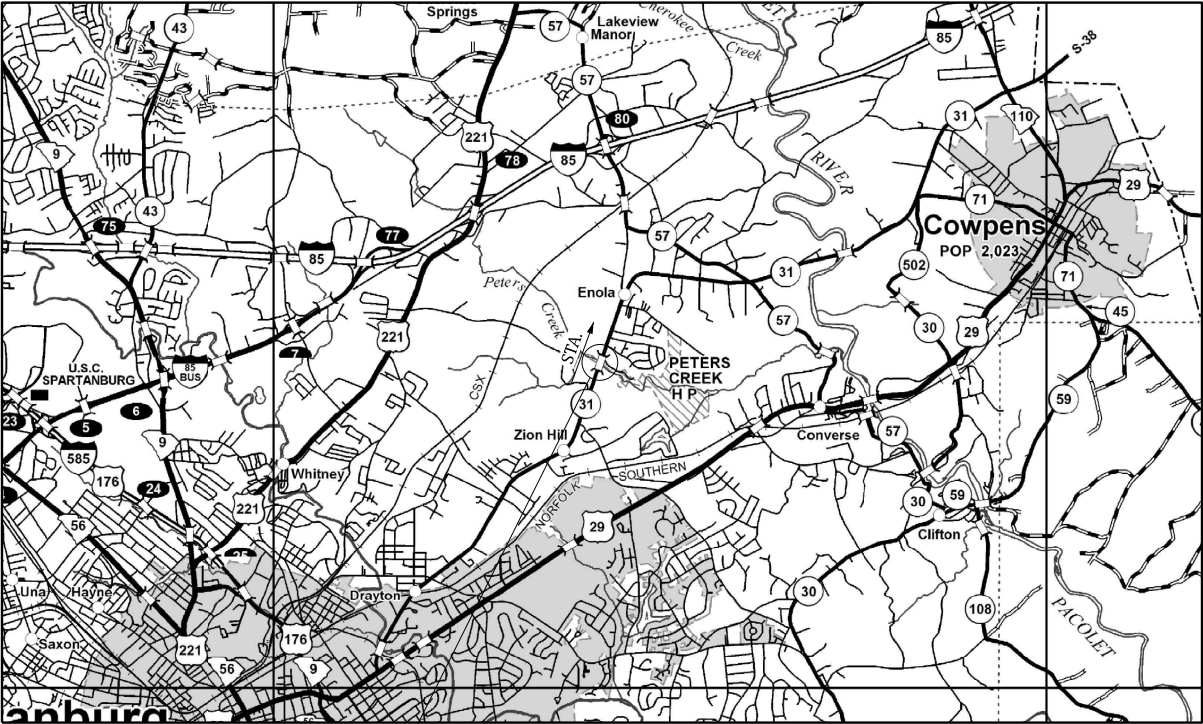
# BRIDGE PLANS

Appendix A.1: Conceptual Bridge Plans for S-42-31 BRIDGE (CANNONS CAMPGROUND RD)

- INDEX OF SHEETS
- 1. TITLE SHEET
  - 2. BRIDGE PLAN AND PROFILE
  - 3. END BENT PLAN AND ELEVATION
  - 4. INTERIOR BENT PLAN AND ELEVATION
  - 5. BRIDGE TYPICAL SECTION



PROPOSED PLANS  
FOR  
SPARTANBURG COUNTY  
PROJECT ID P041165  
ROUTE S-42-31 (CANNONS CAMPGROUND RD)  
REPLACE BRIDGE OVER PETERS CREEK



Approximate Location of Bridge is

Latitude 34°-59'-54" N

Longitude 81°-52'-36" W

SITE LOCATION LAYOUT

3 DAYS BEFORE DIGGING IN  
SOUTH CAROLINA  
CALL 811  
SOUTH CAROLINA 811 (SC811)  
WWW.SC811.COM  
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

ASSET ID NOT ASSIGNED

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.032	MILES
NET LENGTH OF PROJECT	0.032	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.032	MILES

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF THE RELEASE OF THE FINAL RFP.

KCI TECHNOLOGIES

3014 SOUTHCROSS BOULEVARD, ROCK HILL, SC 29730

ENGINEER OF RECORD

TECHNICAL PROPOSAL  
PLANS  
NOT FOR  
CONSTRUCTION

TRAFFIC DATA

2025 ADT 10700 V.P.D.

2045\* ADT 14400\* V.P.D.

TRUCKS 4 %

\*DESIGN TRAFFIC DATA

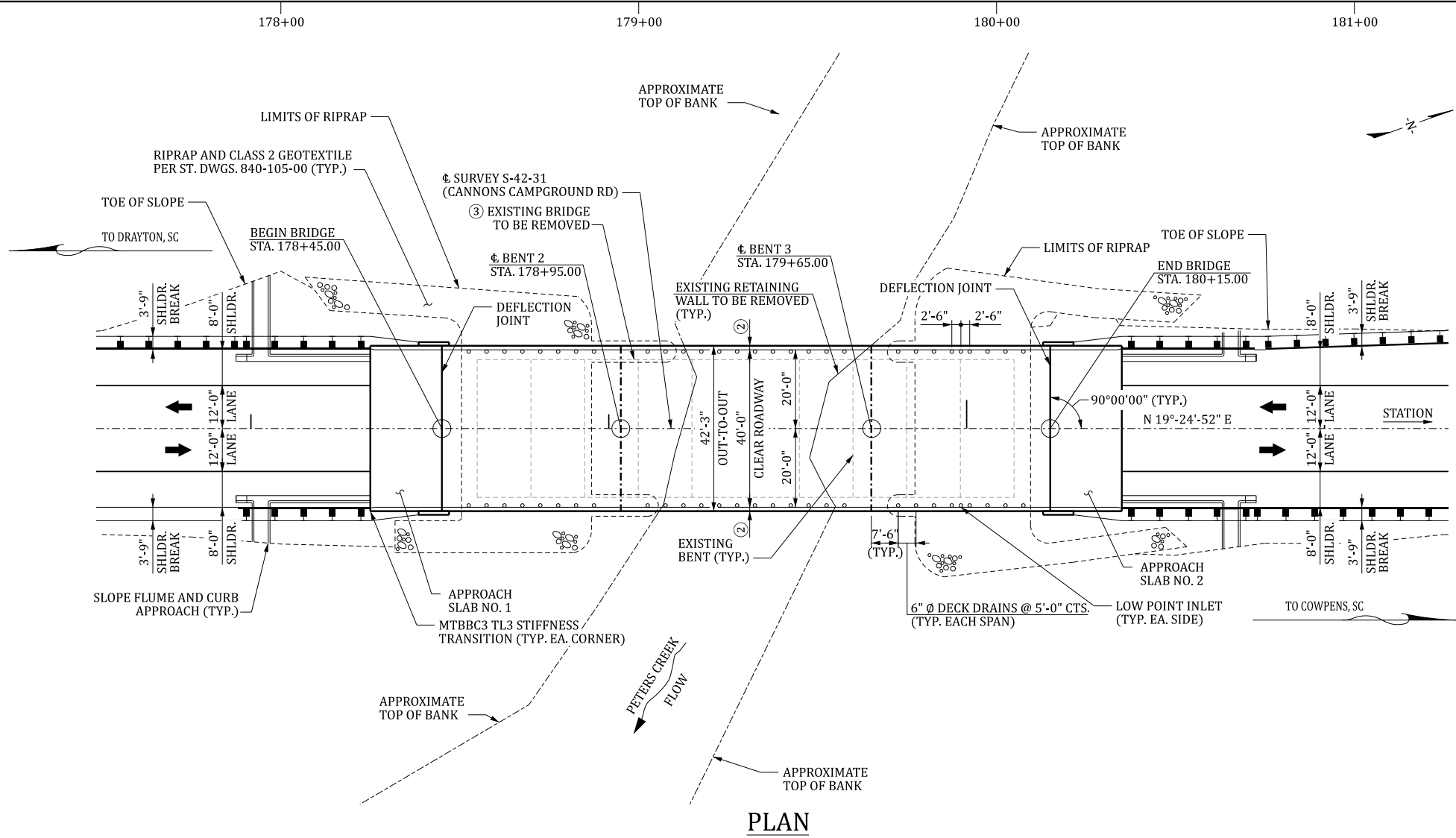


Adam.Lansing 4/15/2025 11:14:58 AM B01\_BRIDGE\_PLAN\_AND\_PROFILE.dgn

REVIEWED AEL		BY	CHK.	DATE
QUAN.				
DR.				
DES.				

REV.	DATE	BY	CHK.	DESCRIPTION OF REVISION

BRIDGE PLANS ID	SHEET
P041165-B01	2



PLAN

- NOTES:
- PROPOSED PROFILE SET SO THAT THE LOW CHORD SATISFIES THE HYDRAULIC REQUIREMENTS, SET FORTH BY THE RFP.
  - INCLUDES 1'-0" MASH BARRIER PARAPET AND 1½" SLAB EXTENSION.
  - REMOVE AND DISPOSE OF EXISTING 38'-6" x 150'-0" 9-SPAN SIMPLE CONCRETE SLAB BRIDGE AND APPURTENANCES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.

I - DENOTES INTEGRAL END BENT  
F - DENOTES FIXED BEARING

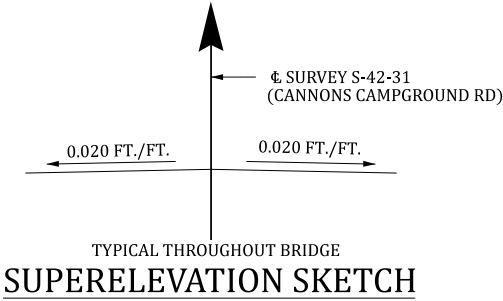
= EXCAVATE HATCHED AREA

CONTROL POINTS

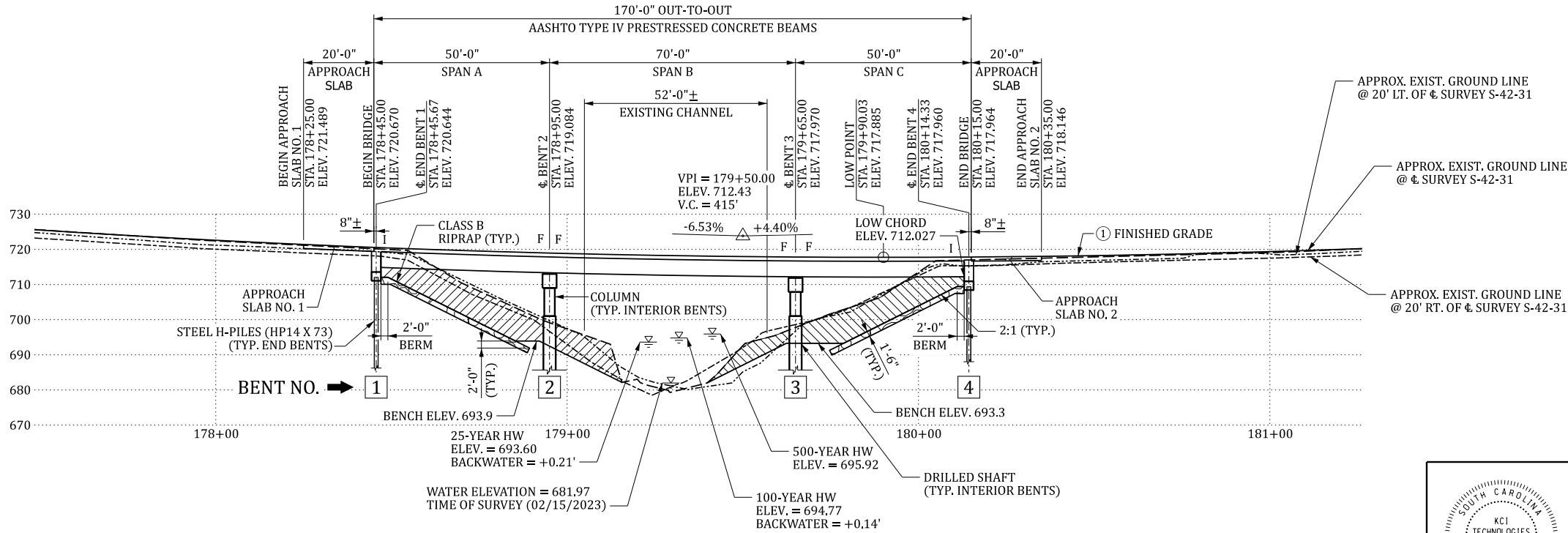
CP3  
ELEVATION = 762.89  
N 1151971.32 E 1737186.50  
8" NAIL

CP4  
ELEVATION = 716.61  
N 1152758.05 E 1737427.32  
8" NAIL

CP5  
ELEVATION = 759.75  
N 1153516.63 E 1737734.43  
8" NAIL



TYPICAL THROUGHOUT BRIDGE  
SUPERELEVATION SKETCH



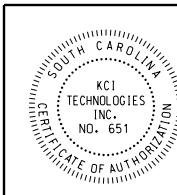
SECTION ALONG SURVEY   S-42-31

HYDROLOGY DATA

D.A. = 6.53 SQ. MILES  
Q<sub>25</sub> = 1,560 CFS  
VELOCITY<sub>25</sub> = 3.68 FPS  
AREA FURNISHED UNDER<sub>25</sub> = 2,370 SQ. FT.  
Q<sub>100</sub> = 2,240 CFS  
VELOCITY<sub>100</sub> = 4.54 FPS  
AREA FURNISHED UNDER<sub>100</sub> = 2,310 SQ. FT.

OVERTOPPING FLOOD

Q = 35,300 CFS  
PROBABILITY < 0.2%



SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

BRIDGE PLAN AND PROFILE

ROUTE S-42-31 REPLACE BRIDGE OVER PETERS CREEK

COUNTY: SPARTANBURG

ROUTE: S-42-31

Adam.Lansing 4/15/2025 11:15:22 AM B01\_END\_BENT\_1\_AND\_4.dgn

REVIEWED ###					
QUAN.					
DR.					
DES.					
	BY	CHK.	DATE		

REV.					
REV.					
REV.					
	BY	CHK.	DATE		DESCRIPTION OF REVISION

BEAM SEAT NO. ➡

1

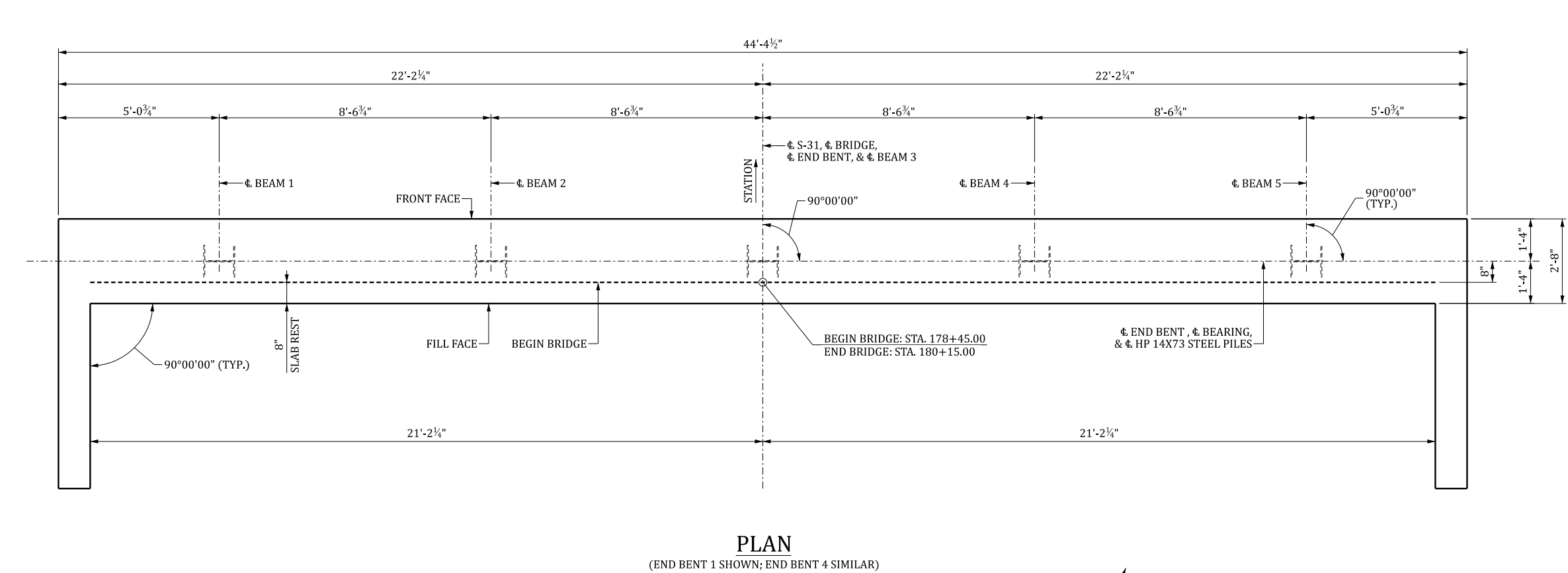
2

3

4

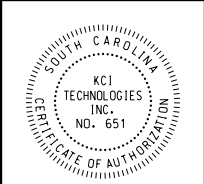
5

ELEVATION



NOTES:

BEAM SEAT DIMENSIONS, WING WALL DIMENSIONS,  
& PILE LENGTHS TO BE PROVIDED IN FINAL DESIGN.



KCI TECHNOLOGIES

3014 SOUTHCROSS BOULEVARD, ROCK HILL, SC 29730

SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

END BENT PLAN AND  
ELEVATION

ROUTE S-42-31 REPLACE BRIDGE OVER PETERS CREEK

COUNTY: SPARTANBURG

ROUTE: S-42-31



REVIEWED ###			
QUAN.			
DR.			
DES.			
	BY	CHK.	DATE



BEAM SEATS NOT SHOWN FOR CLARITY



COLUMN/SHAFT NO. ➡

1

2



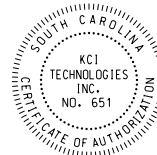
3014 SOUTHCROSS BOULEVARD, ROCK HILL, SC 29730

## INTERIOR BENT PLAN AND ELEVATION

### ROUTE S-42-31 REPLACE BRIDGE OVER PETERS CREEK

COUNTY: SPARTANBURG

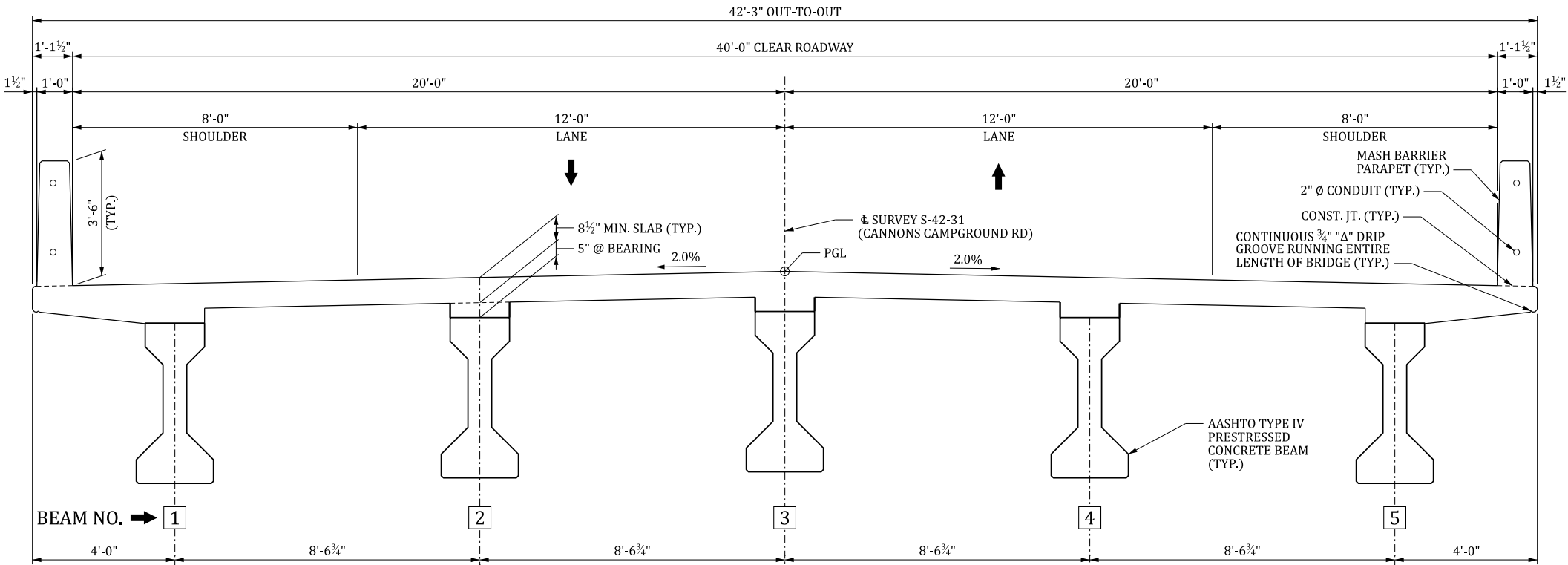
ROUTE: S-42-31



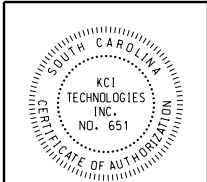
Adam.Lansing 4/15/2025 11:16:01 AM B01\_TYPICAL\_SECTION.dgn

REVIEWED ###			
QUAN.			
DR.			
DES.			
	BY	CHK.	DATE

REV.					
REV.					
REV.					
	BY	CHK.	DATE	DESCRIPTION OF REVISION	



TYPICAL SECTION  
(LOOKING IN DIRECTION OF STATIONING)



**KCI TECHNOLOGIES**  
3014 SOUTHCROSS BOULEVARD, ROCK HILL, SC 29730

**SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE TYPICAL SECTION**

ROUTE S-42-31 REPLACE BRIDGE OVER PETERS CREEK

COUNTY: SPARTANBURG

ROUTE: S-42-31



## Appendix A.2 - Roadway Plans



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[Technical Proposal Narrative](#) | [A.1 - Bridge Plans](#) | [A.2 - Roadway Plans](#) | [B - Forms](#) | [C - ATCs](#)

# APPENDIX A.2

# CONCEPTUAL

# ROADWAY PLANS

APPENDIX A.2.a: TYPICAL SECTIONS

SEE ROADWAY PLANS

APPENDIX A.2.b: PLAN AND PROFILE

SEE ROADWAY PLANS

SPARTANBURG COUNTY SOUTH CAROLINA	
S-42-31 CANNONS CAMPGROUND ROAD	
COUNTY SPARTANBURG	ROUTE S-42-13
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION COLUMBIA, S.C.	
COVER SHEET	
SCALE 1" = NTS	

INDEX OF SHEETS		
SHEET NO.	DESCRIPTION	SHEET TOTALS
1	Title Sheet	1
3	Typical Section	1
4A	Property Strip Map	1
5B	Reference Data Sheet	1
6	Plan and Profile Sheet	1
TC1	Traffic Control Plan	1
X1 - X15	Cross Sections	15
TOTAL SHEETS		21



PROPOSED PLANS  
FOR  
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
SCDOT PROJECT ID P041165  
SPARTANBURG COUNTY  
S-31 (CANNONS CAMPGROUND RD)  
EMERGENCY BRIDGE REPLACEMENT OVER PETERS CREEK

PRELIMINARY PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	SPARTANBURG	P041165	S-31	1	21

Design Reference for these plans is the:

2021

SCDOT Roadway Design Manual

Hydraulic Design Reference for these plans is the:

2009

Edition of SCDOT's "Requirements for Hydraulic Design Studies"

NPDES PERMIT INFORMATION	
Disturbed Area =	TBD Acre(s)
Project Area =	TBD Acre(s)
Approximate Location of Roadway is	
Begin	
Latitude	34°59'51.60" N
Longitude	81°52'36.81" W
End	
Latitude	34°59'55.99" N
Longitude	81°52'34.98" W
Hydraulic and NPDES Design provided by:	
KCI Technologies, Inc.	
Designs may be obtained from the SCDOT Regional Production Group	

- NOTES:
- BRIDGE PLANS BOUND UNDER SEPARATE COVER.
  - CONSTRUCT NEW 42'-3" WIDE X 170'-0" LENGTH THREE SPAN CONCRETE BRIDGE WITH 20' APPROACH SLABS

ENVIRONMENTAL PERMIT INFORMATION			
USACE GENERAL PERMIT	___YES	<u>X</u> NO	
NEPA DOCUMENT	___YES	<u>X</u> NO	
401 CERTIFICATION	___YES	<u>X</u> NO	
OCRM CAP	___YES	<u>X</u> NO	
NAVIGABLE WATERS	___SC	___USCG	___USACE <u>X</u> N/A

3 DAYS BEFORE DIGGING IN  
SOUTH CAROLINA

CALL 811

SOUTH CAROLINA 811 (SC811)  
WWW.SC811.COM

ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT?

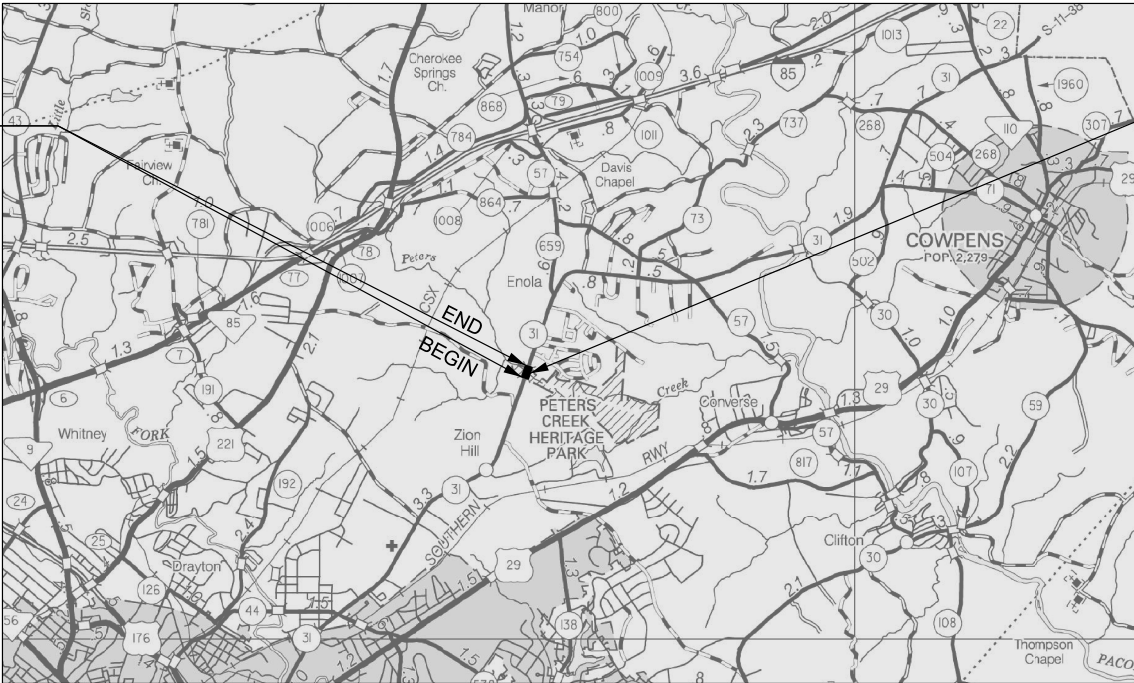
YES (NO)

TRAFFIC DATA

2025 ADT 10,700

2045 ADT 14,400

TRUCKS 2 %



LAYOUT  
SCALE = NTS  
SPARTANBURG COUNTY

	S-31	TOTAL
NET LENGTH OF ROADWAY	0.057	0.057 MILES
NET LENGTH OF BRIDGES	0.032	0.032 MILES
NET LENGTH OF PROJECT	0.089	0.089 MILES
LENGTH OF EXCEPTIONS	—	— MILES
GROSS LENGTH OF PROJECT	0.089	0.089 MILES



CONSULTING ENGINEERING FIRM

SOUTH CAROLINA  
KCI TECHNOLOGIES, INC.  
No. C00651  
CERTIFICATE OF AUTHORIZATION

ENGINEER OF RECORD

NOT FOR CONSTRUCTION

FOR CONSTRUCTION : \_\_\_\_\_ DATE \_\_\_\_\_

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2025 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.



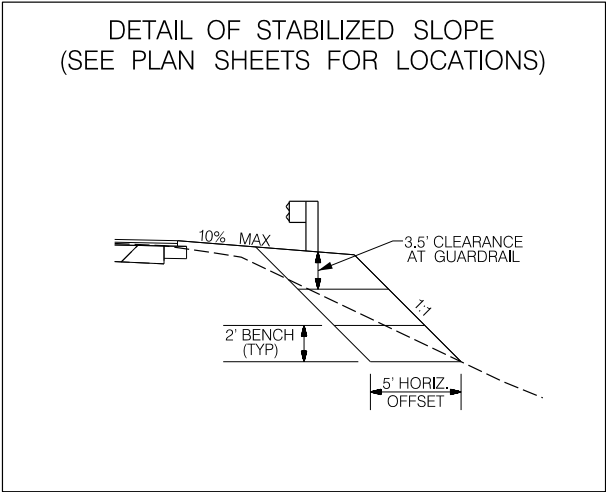
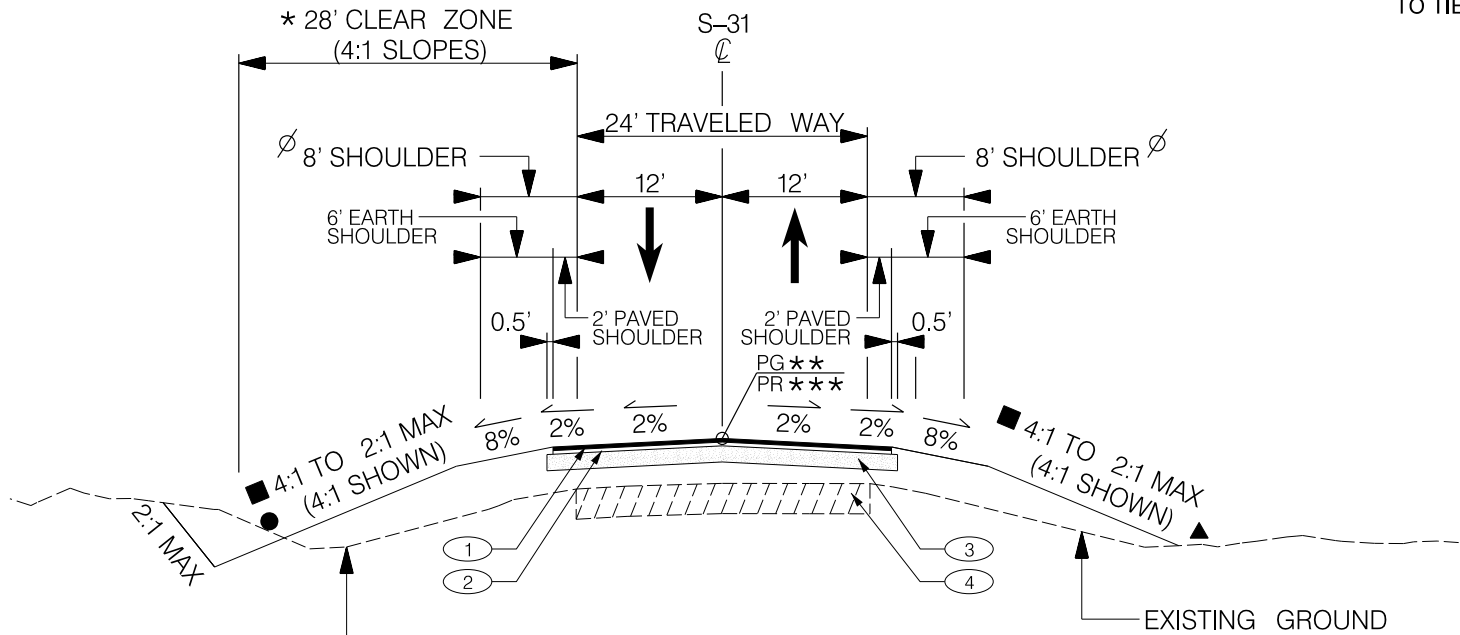
TYPICAL SECTION OF IMPROVEMENT  
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
COLUMBIA, S.C.

● THIS SLOPE MAY BE VARIED WHEN A DEEPER DITCH IS NECESSARY FOR DRAINAGE PURPOSES, USING A MINIMUM SLOPE OF 12.5:1 AND A MAXIMUM SLOPE OF 4:1. WHERE A DEEPER DITCH THAN PROVIDED BY A 4:1 IS NECESSARY, THE DITCH SHALL BE PLACED FARTHER FROM THE  $\varnothing$  CONTINUING THE 4:1 SLOPE TO PROVIDE FOR THE NECESSARY DEPTH.

NOTES:

- PAVEMENT SLOPES, SHOULDER SLOPES, AND DITCH SLOPES MAY VARY FROM THOSE SHOWN ON TYPICAL SECTION. SEE CROSS SECTIONS FOR MORE DETAIL.
- THE EXISTING PAVEMENT IS TYPICAL. SEE CROSS SECTIONS FOR VARIATIONS IN EXISTING PAVEMENT WIDTHS.
- SEE SCDOT STD. DWG. NOS. 805-525-01 AND 805-525-02 (DETAIL 3) FOR NON-MOW STRIP DETAILS.
- SEE SCDOT STD. DWG. SECTIONS 805-000, 805-100, 805-200, AND 805-300 FOR GUARDRAIL.
- SEE SCDOT STD. DWG. SECTION 805-300 FOR BRIDGE APPROACH CURB AND GUTTER AND FLUME INLET.
- SEE SCDOT STD. DWG. NO. 719-920-00 FOR SLOPE FLUME DETAILS.
- USE HMA SURFACE COURSE TYPE E FOR BUILDUP LESS THAN OR EQUAL TO 1.5", HMA INTERMEDIATE COURSE TYPE B FOR BUILDUP GREATER THAN 1.5".
- DESIGN SPEED IS 30 MPH FOR SINGLE SAG VERTICAL CURVE AT BRIDGE TO TIE INTO EXISTING TERRAIN (PER RFP)

FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	P041165	S-31	3



S-31 (CANNONS CAMPGROUND RD)  
USE THIS SECTION  
STA. 175+69.64 TO STA. 181+93.84  
BRIDGE - STA. 178+45.00 TO STA. 180+15.00  
APPROACH SLABS - STA. 178+25.00 TO STA. 178+45.00  
STA. 180+15.00 TO STA. 180+35.00  
(SEE BRIDGE PLANS FOR DETAILS)

1		HOT MIX ASPHALT SURFACE COURSE, TYPE B (200 LBS/SY)
2		HOT MIX ASPHALT INTERMEDIATE COURSE, TYPE B (200 LBS/SY)
3		HOT MIX ASPHALT BASE COURSE, TYPE A (900 LBS/SY)
4		EXISTING ASPHALT PAVEMENT IN PLACE (RETAIN WHERE APPLICABLE)

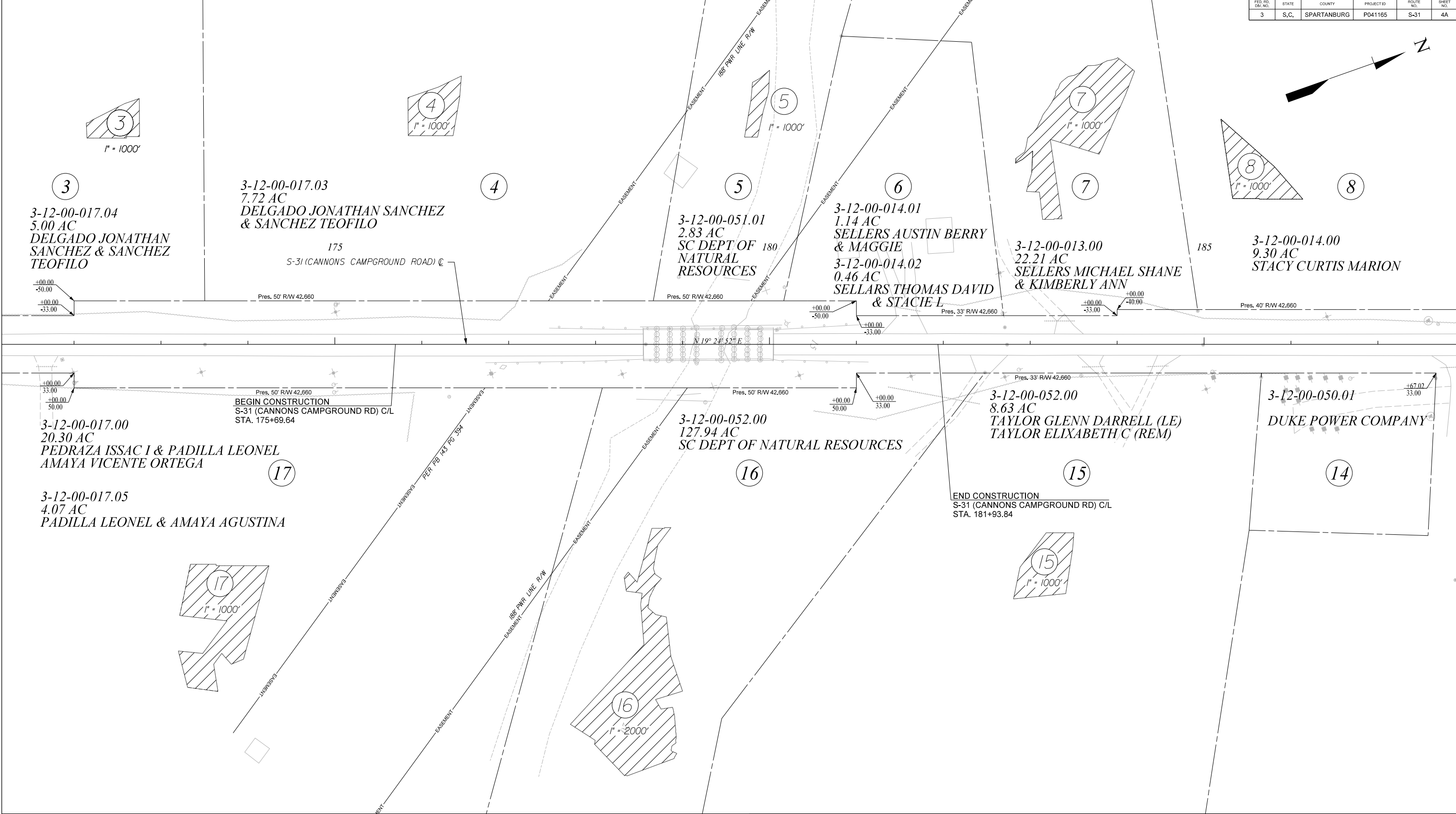
- ★★ 20' CZ ALLOWED WITH 6:1 SLOPE IN NW QUADRANT  
★★ PG=POINT OF FINISHED GRADE  
★★★ PR=POINT OF ROTATION
- $\varnothing$  ADD 3.75' WHERE GUARDRAIL IS USED (SEE NOTE 4)
- USE 4:1 SLOPE (<10')  
2:1 MAX SLOPE (>10')
- ▲ USE SILT FENCE AT THE TOE OF ALL SLOPES PER SCDOT STD. DWG. NO. 815-605-00



PRELIMINARY  
PLANS

NOT FOR  
CONSTRUCTION

ROUTE NO.	FUNCTIONAL CLASSIFICATION	DESIGN SPEED			PAVEMENT DESIGN
		MPH	FROM STA.	TO STA.	
S-31	URBAN - MINOR ARTERIAL	45	175+69.64	181+93.84	APPROVED BY  DATE
5					SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION COLUMBIA, S.C.  TYPICAL SECTION S-31 (CANNONS CAMPGROUND RD)
4					
3					
2					
1					
REV. NO.	BY	DATE	DESCRIPTION OF REVISION		SCALE = NTS



FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	P041165	S-31	4A



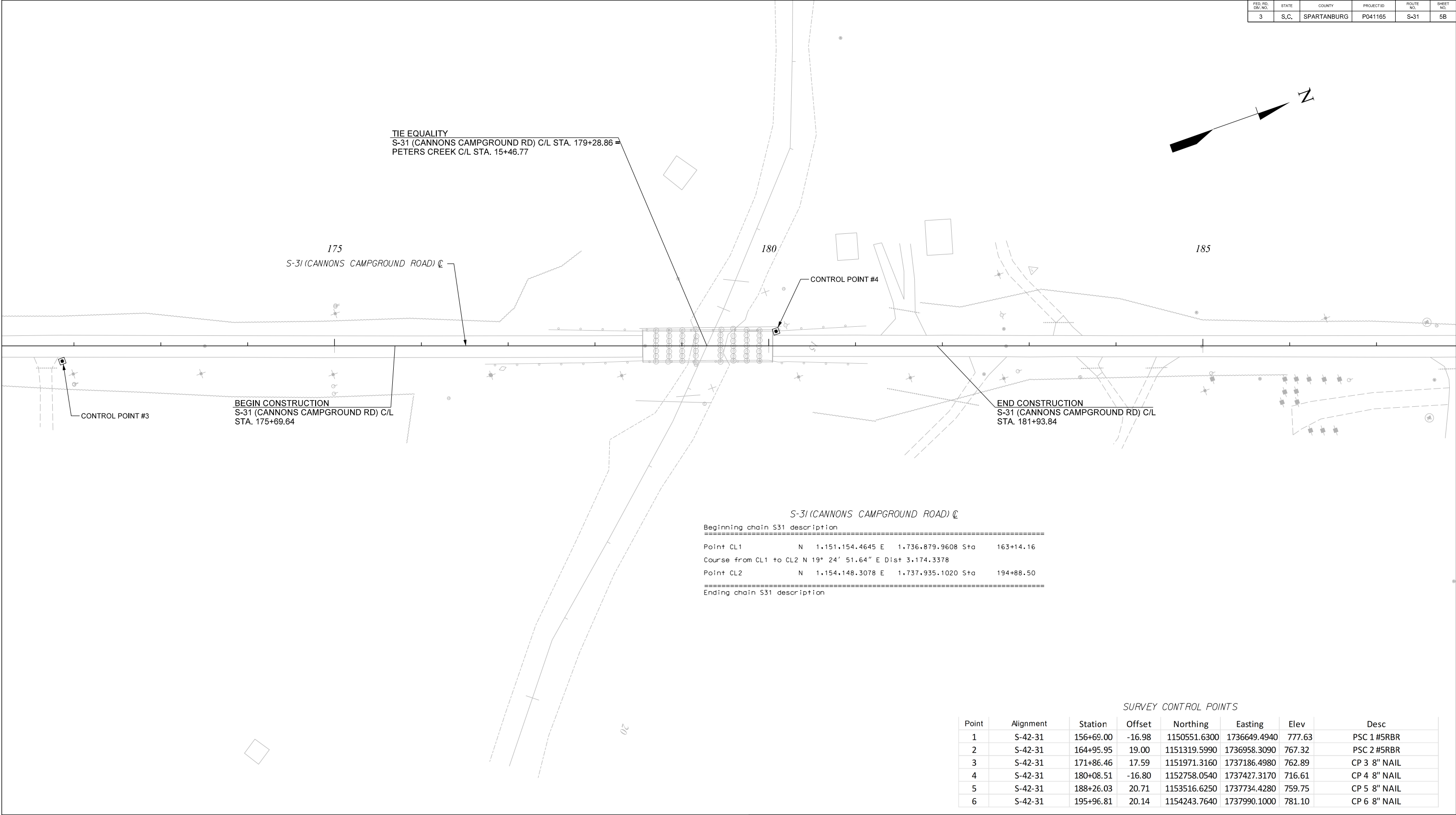
PRELIMINARY  
PLANS

NOT FOR  
CONSTRUCTION

5			
4			
3			
2			
1			
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION COLUMBIA, S.C.
PROPERTY STRIP MAP S-31 (CANNONS CAMPGROUND RD)
SCALE 1" = 50'

FED. RD. DW. NO.	STATE	COUNTY	PROJECTID	ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	P041165	S-31	5B



S-31 (CANNONS CAMPGROUND ROAD) C/L

Beginning chain S31 description

Point CL1	N	1.151.154.4645	E	1.736.879.9608	Sta	163+14.16
Course from CL1 to CL2 N 19° 24' 51.64" E Dist 3,174.3378						
Point CL2	N	1.154.148.3078	E	1.737.935.1020	Sta	194+88.50

Ending chain S31 description

SURVEY CONTROL POINTS

Point	Alignment	Station	Offset	Northing	Easting	Elev	Desc
1	S-42-31	156+69.00	-16.98	1150551.6300	1736649.4940	777.63	PSC 1 #5RBR
2	S-42-31	164+95.95	19.00	1151319.5990	1736958.3090	767.32	PSC 2 #5RBR
3	S-42-31	171+86.46	17.59	1151971.3160	1737186.4980	762.89	CP 3 8" NAIL
4	S-42-31	180+08.51	-16.80	1152758.0540	1737427.3170	716.61	CP 4 8" NAIL
5	S-42-31	188+26.03	20.71	1153516.6250	1737734.4280	759.75	CP 5 8" NAIL
6	S-42-31	195+96.81	20.14	1154243.7640	1737990.1000	781.10	CP 6 8" NAIL

SCALE : 50,000 ft / in.  
PEN TABLE : SCODT Levels 2015 B&W Plan.tbl  
PLOT DRIVER : pdf.plt  
PLOTTED : 4/14/2025

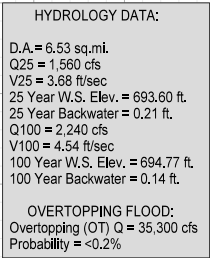
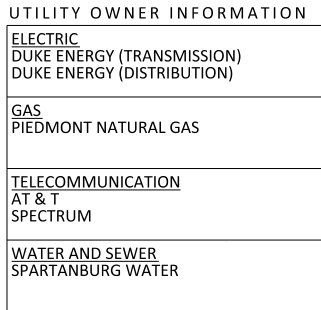


PRELIMINARY  
PLANS

NOT FOR  
CONSTRUCTION

5				SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION COLUMBIA, S.C.
4				
3				
2				
1				
REV. NO.	BY	DATE	DESCRIPTION OF REVISION	REFERENCE DATA SHEET
				SCALE 1" = 50'




**KCI TECHNOLOGIES**  
 ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
COLUMBIA, S.C.  
PLAN & PROFILE SHEET

SCALE 1" = 50'    SCALE 1"= 50' HOR.    1" = 10' VER.

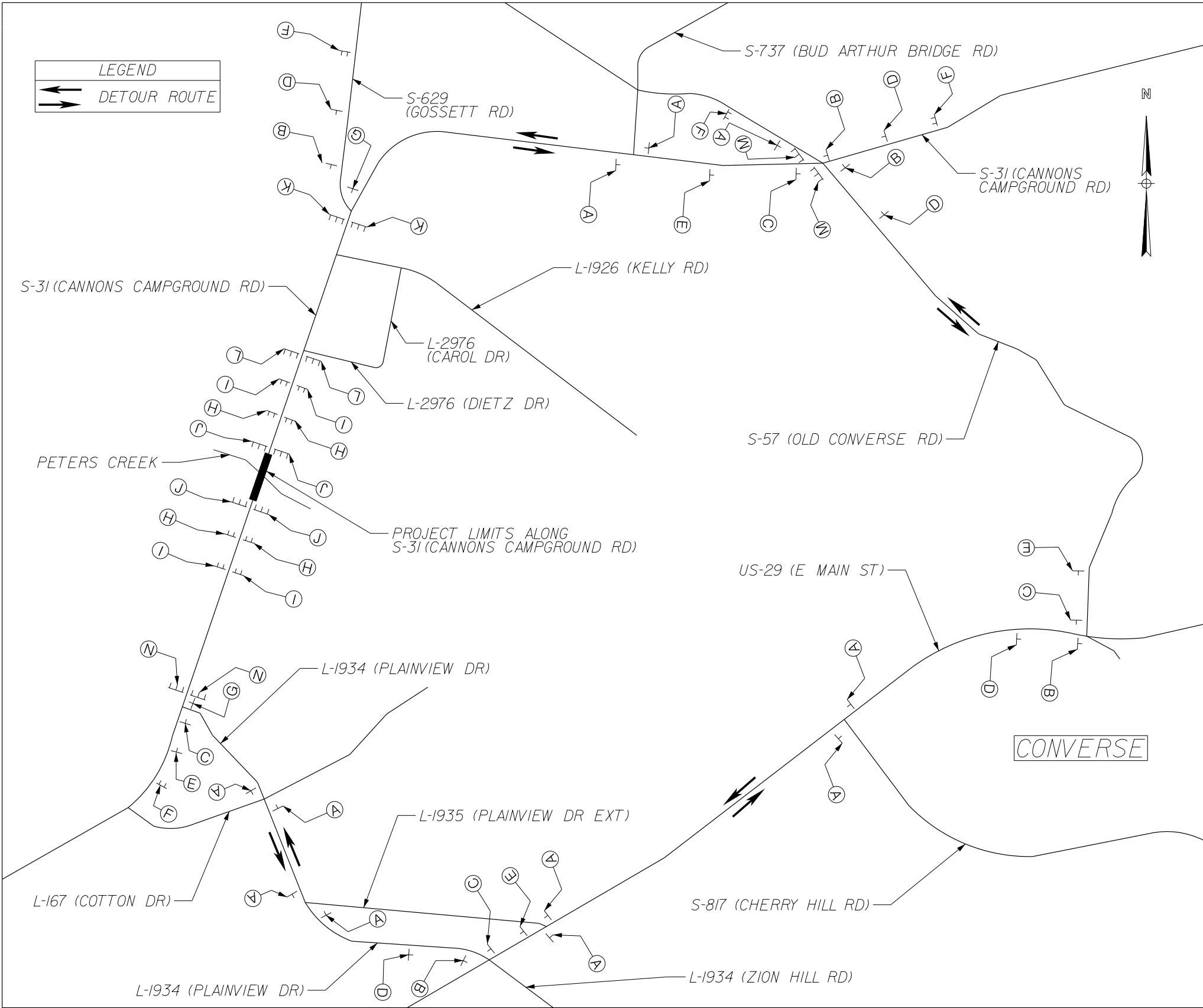
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PLOTTED : 4/14/2025

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FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	P048772	S-31	TC1

SIGN	QUANTITY
"A"	11
"B"	5
"C"	4
"D"	5
"E"	4
"F"	4
"G"	2
"M"	2
"N"	2

D3-1

A

CANNONS CAMPGROUND RD

DETOUR

M4-9-30

B

CANNONS CAMPGROUND RD

DETOUR

M4-9L-30

C

CANNONS CAMPGROUND RD

DETOUR

M4-9R-30

D

CANNONS CAMPGROUND RD

DETOUR

M4-9.1L-30

E

CANNONS CAMPGROUND RD

DETOUR

M4-9.1R-30

F

CANNONS CAMPGROUND RD

DETOUR AHEAD

W20-2-48-A

G

CANNONS CAMPGROUND RD

END DETOUR

M4-8A-24

H

ROAD CLOSED 500 FT

W20-3-48-5

I

ROAD CLOSED 1000 FT

W20-3-48-10

PAY ITEM	QUANTITY
TYPE III BARRICADES	84 LF
PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	128 SF
PERMANENT CONSTRUCTION SIGNS (BARRICADE MOUNTED)	105 SF
TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS	16 EA

J

ROAD CLOSED

R11-2-48

K

BRIDGE OUT 0.6 MILES AHEAD LOCAL TRAFFIC ONLY

R11-3B-60-0.6

L

BRIDGE OUT 0.3 MILES AHEAD LOCAL TRAFFIC ONLY

R11-3B-60-0.3

M

BRIDGE OUT 1.8 MILES AHEAD LOCAL TRAFFIC ONLY

DETOUR

M4-10L-48

N

BRIDGE OUT 0.6 MILES AHEAD LOCAL TRAFFIC ONLY

DETOUR

M4-10R-48

NOTES:

- SEE SCDOT STD. DWG. NO. 610-505-00 FOR ROAD CLOSURE DETAILS.
- SEE SCDOT STD. DWG. NO. 610-610-00 FOR DETOUR SIGNING DETAILS. INSTALL DETOUR SIGNS AND BARRICADES AS SHOWN AND IN ACCORDANCE WITH THE MUTCD AND SCDOT STANDARD DRAWINGS.
- DETOUR SIGNS SHOWN IN APPROXIMATE LOCATION. RESIDENT CONSTRUCTION ENGINEER MAY MODIFY TO MATCH FIELD CONDITIONS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO PROPERTIES LOCATED WITHIN WORK ZONE.
- DETOUR DISTANCE IS APPROXIMATELY 6.2 MILES.

PRELIMINARY  
PLANS

NOT FOR  
CONSTRUCTION

5				
4				
3				
2				
1				
REV. NO.	BY	DATE	DESCRIPTION OF REVISION	

SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
COLUMBIA, S.C.

TRAFFIC CONTROL DETOUR SHEET  
S-31 (CANNONS CAMPGROUND RD)

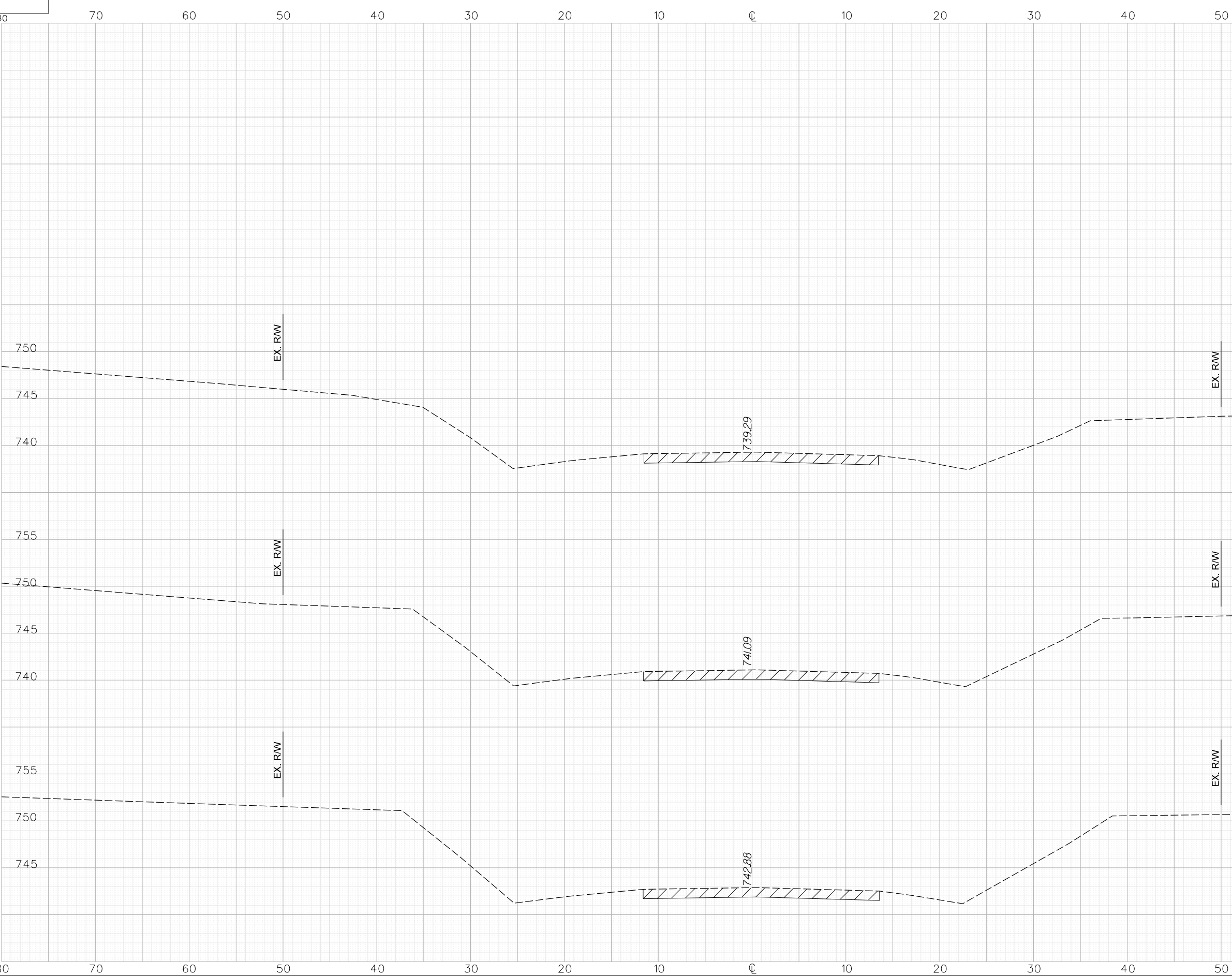
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FED. RD. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET
3	S.C.	SPARTANBURG	P041165	I-95	X1

PRELIMINARY  
PLANS

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CONSTRUCTION





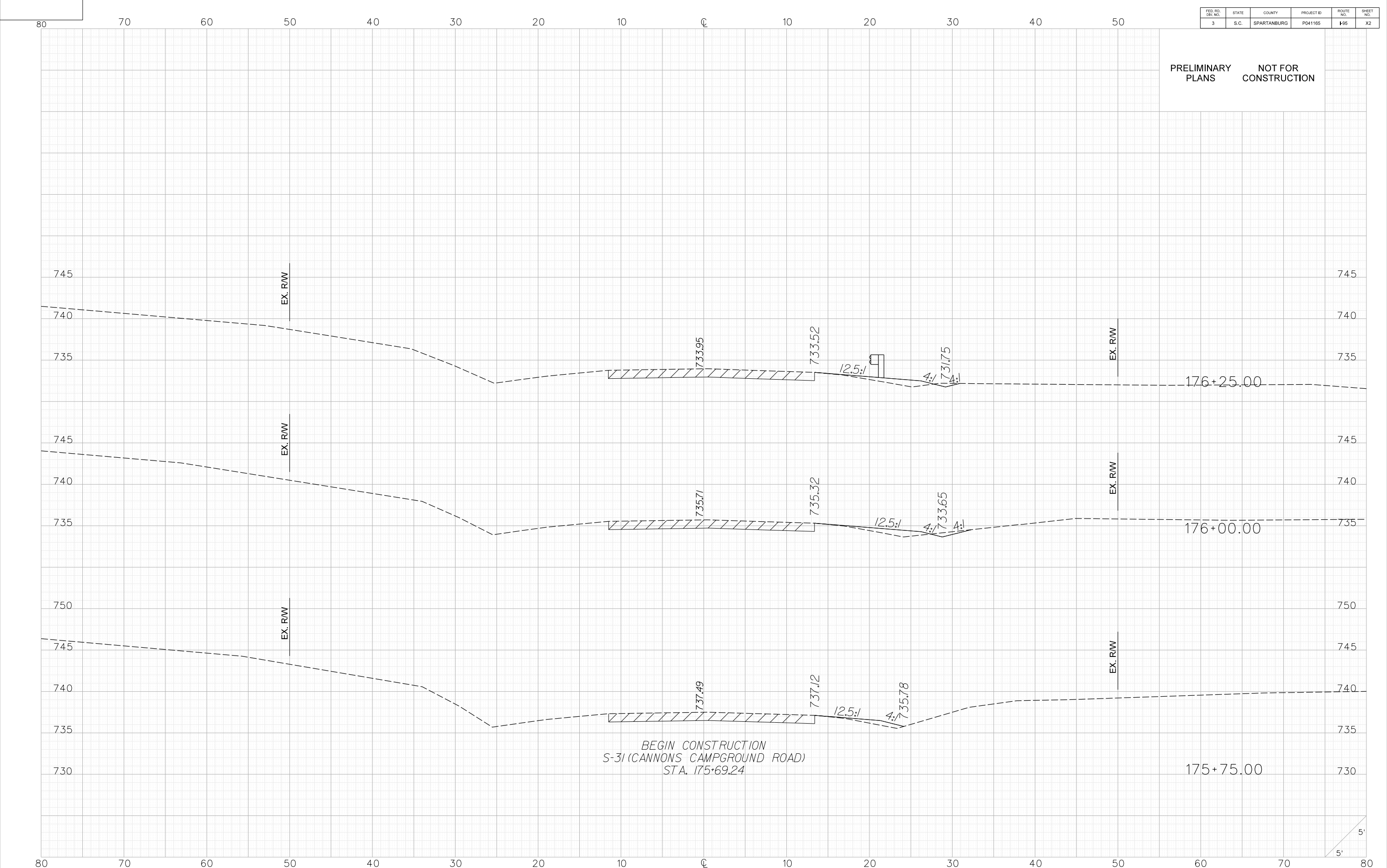
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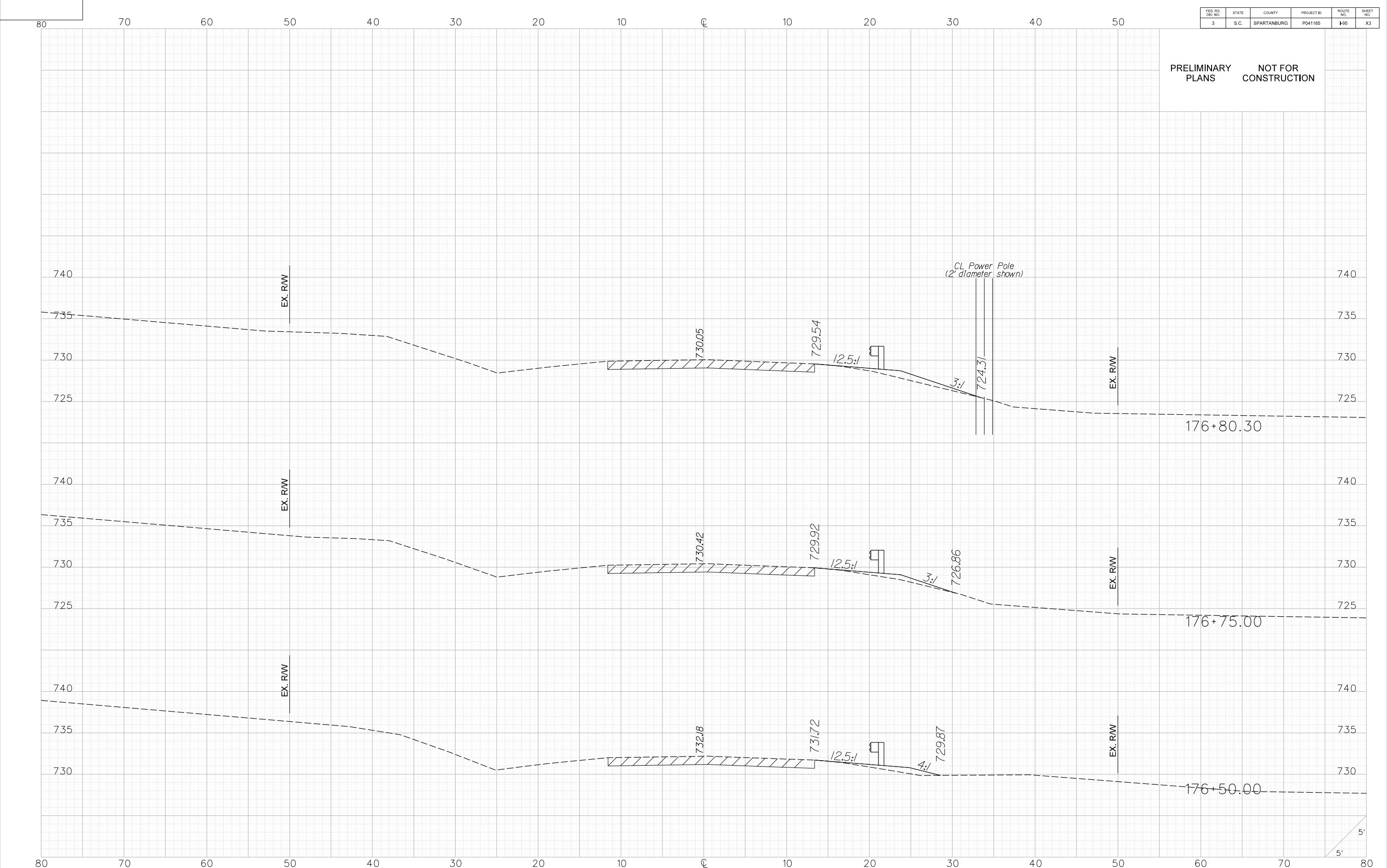
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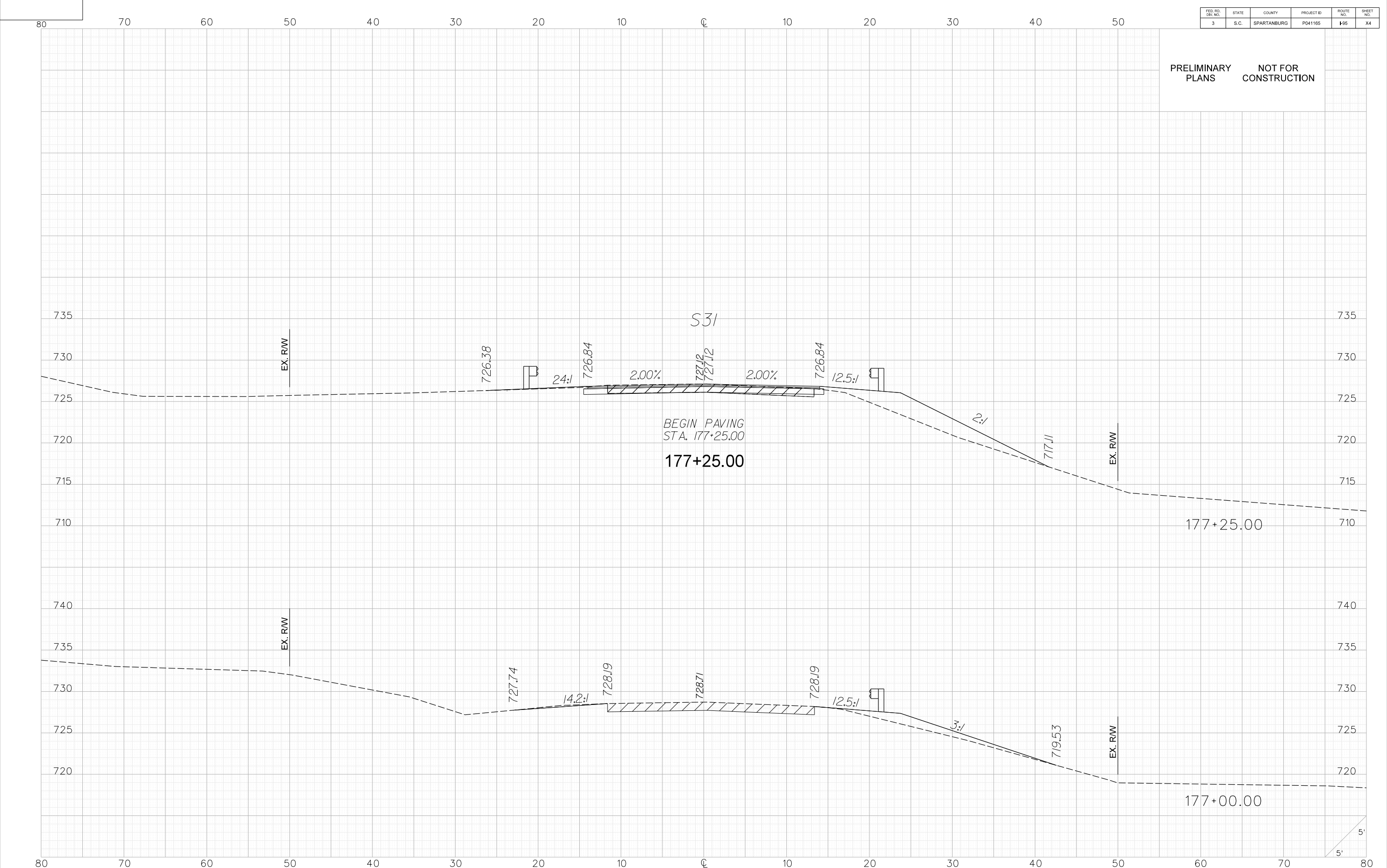
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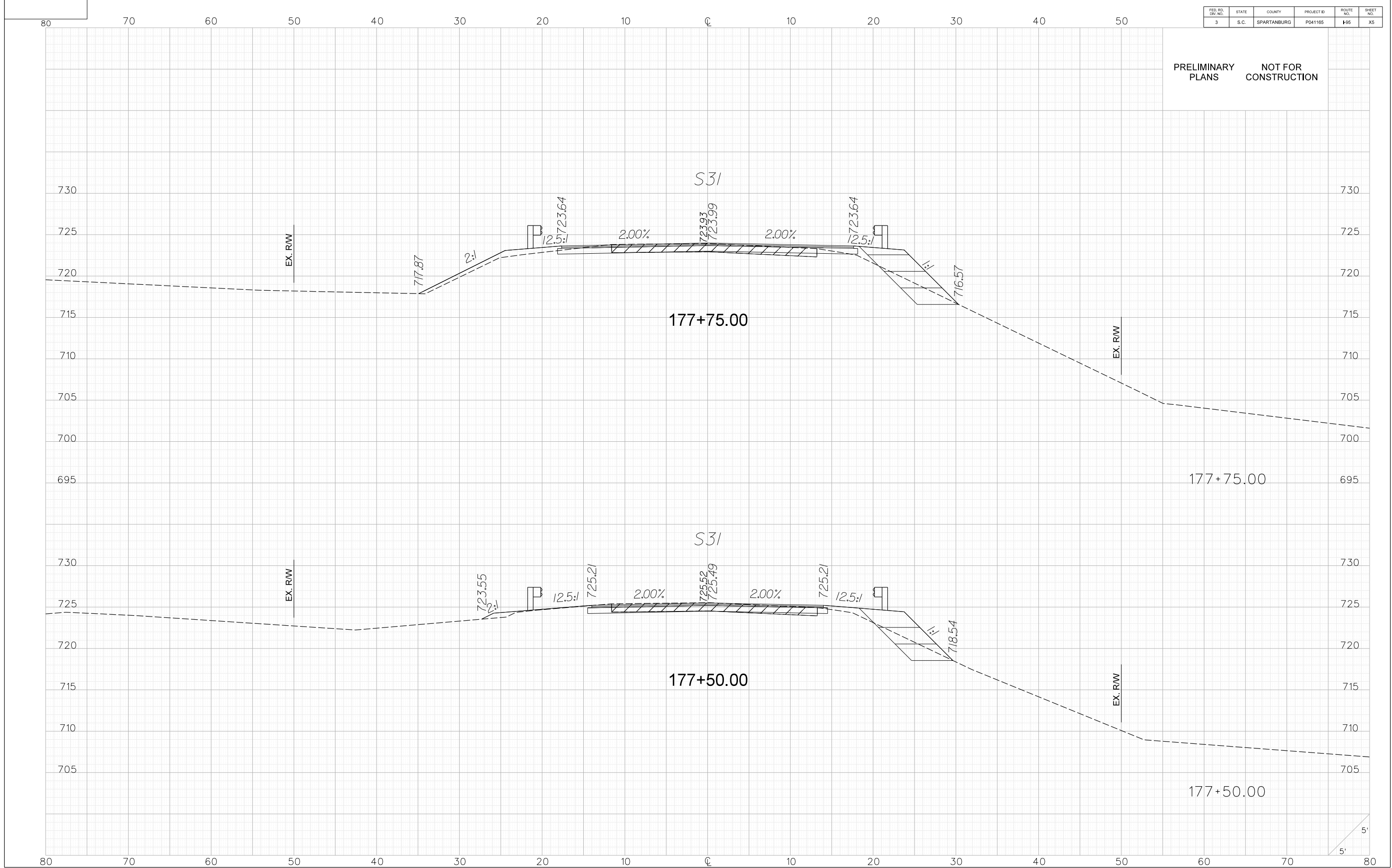
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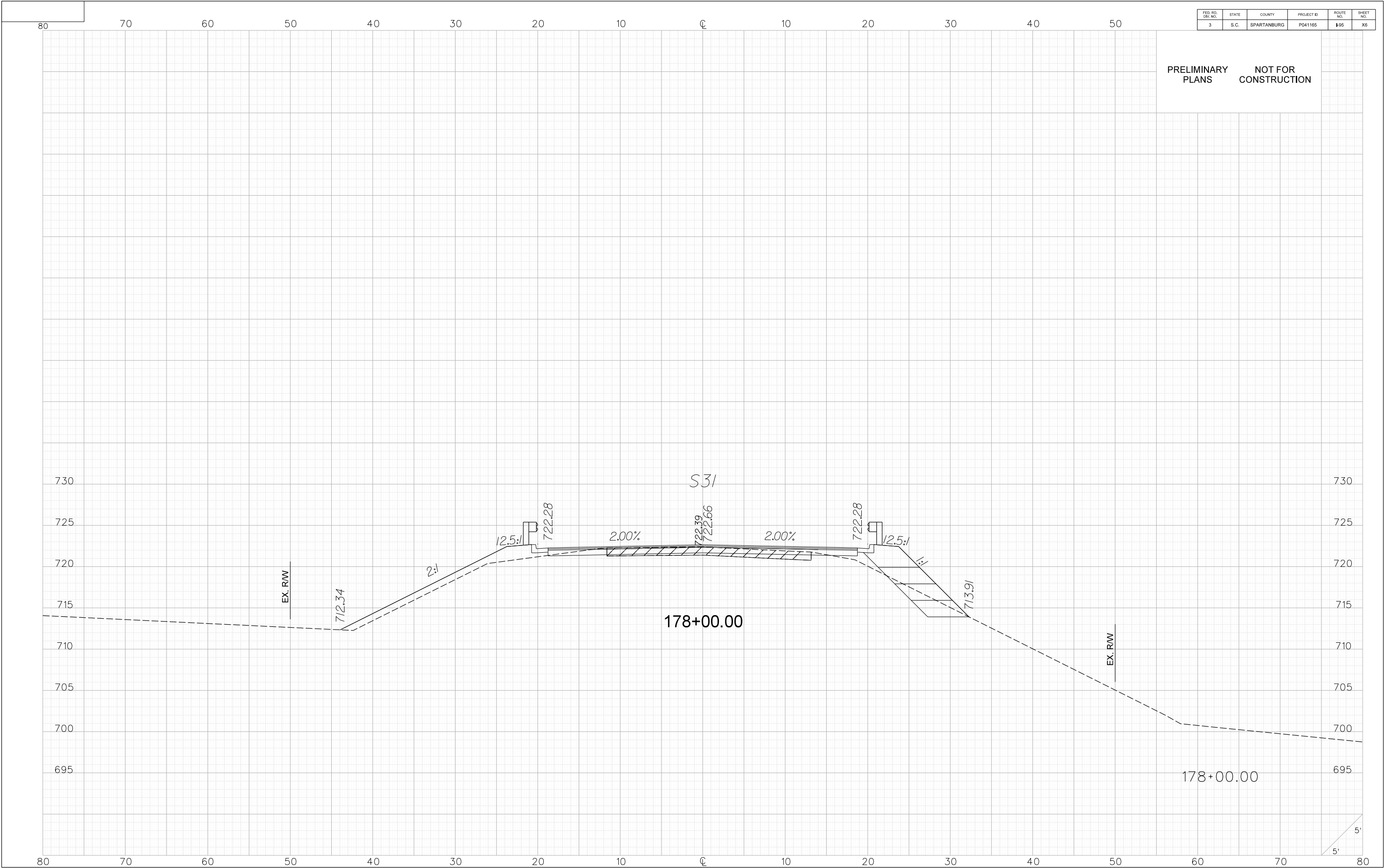
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PLOTTED : 4/14/2025

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FED. RD. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET
3	S.C.	SPARTANBURG	P041165	195	X6

PRELIMINARY  
PLANS

NOT FOR  
CONSTRUCTION



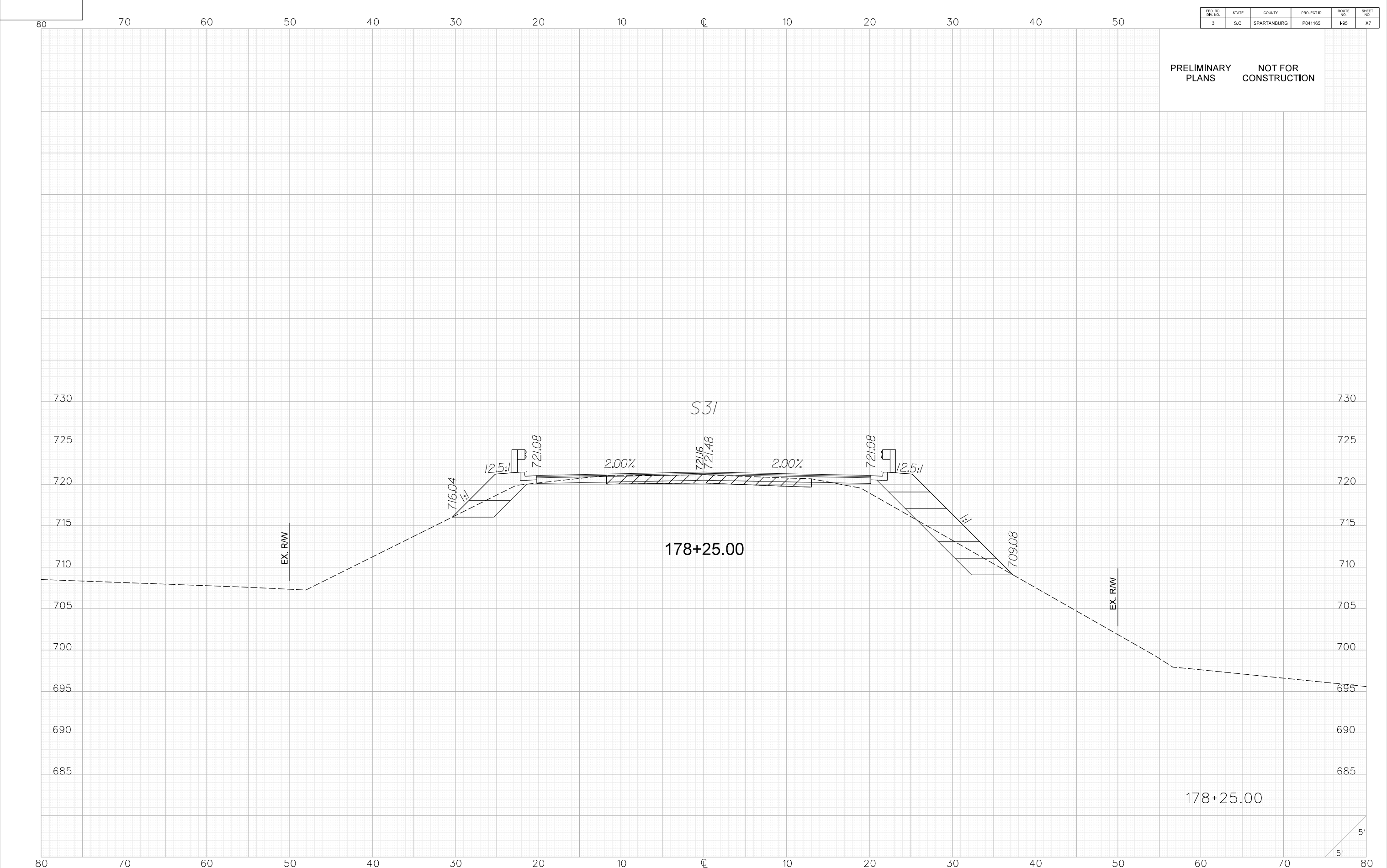
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PLOTTED : 4/14/2025

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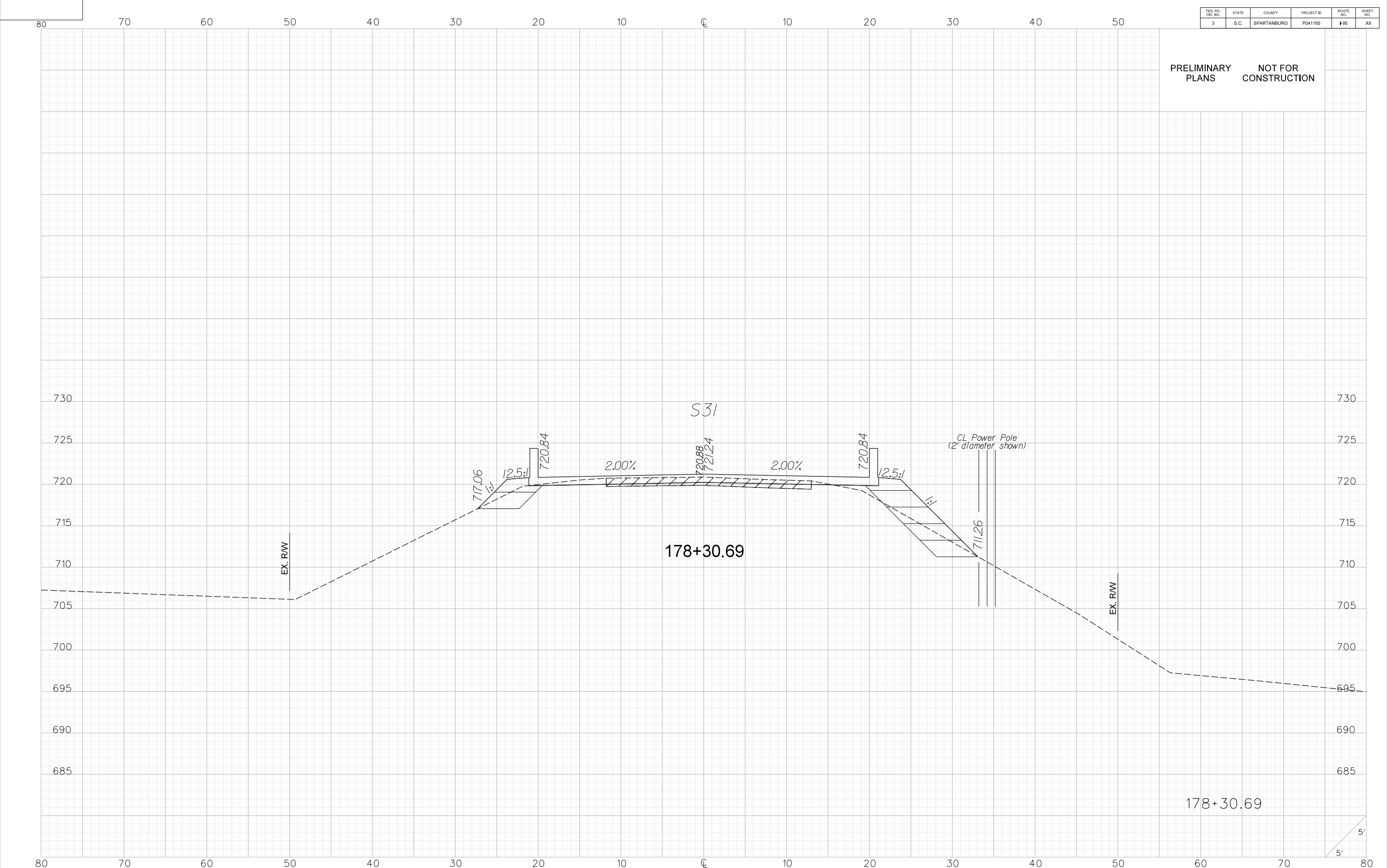
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PLOT DRIVER : pdt.plt

PLOTTED : 4/14/2025

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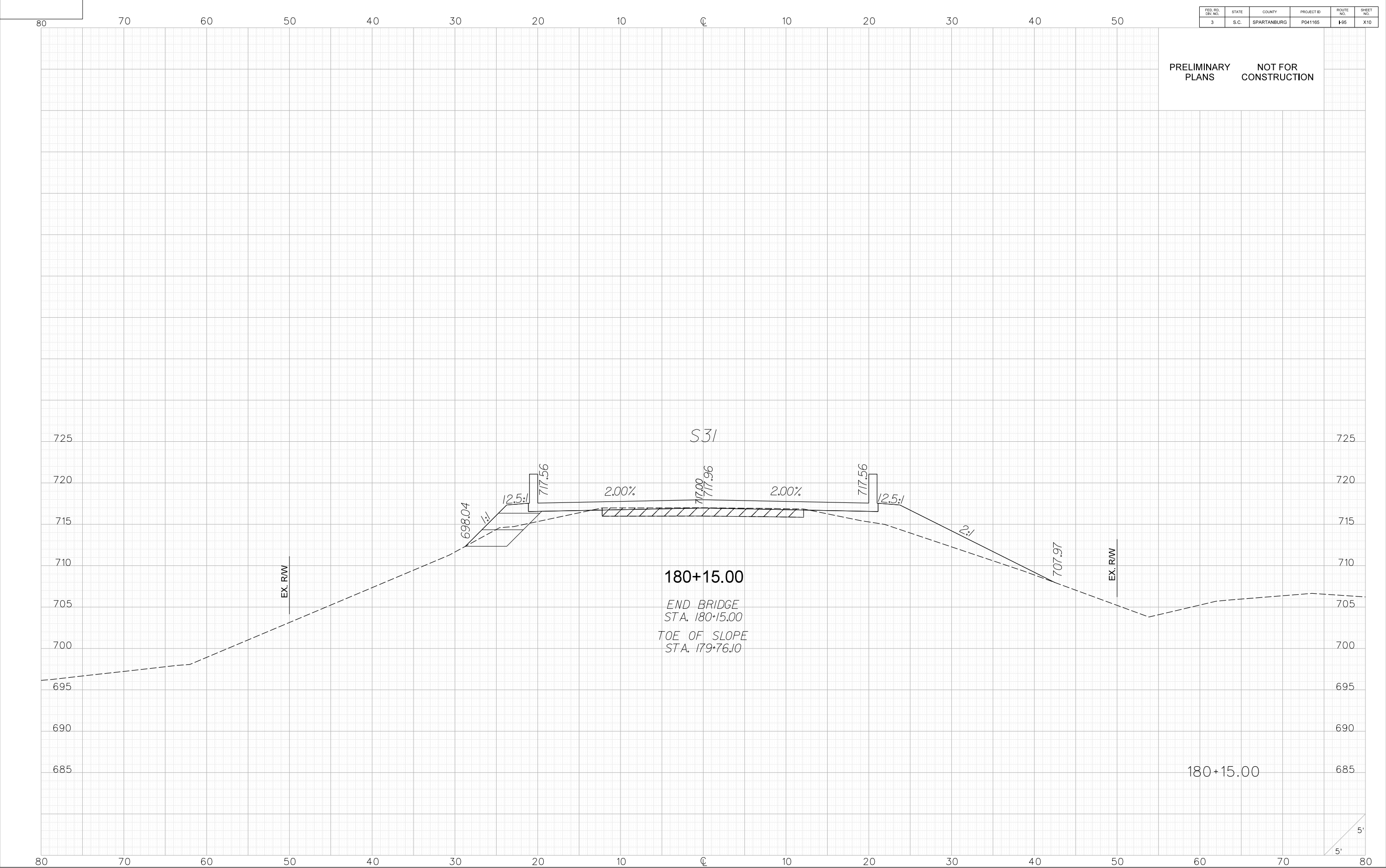
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PLOTTED : 4/14/2025

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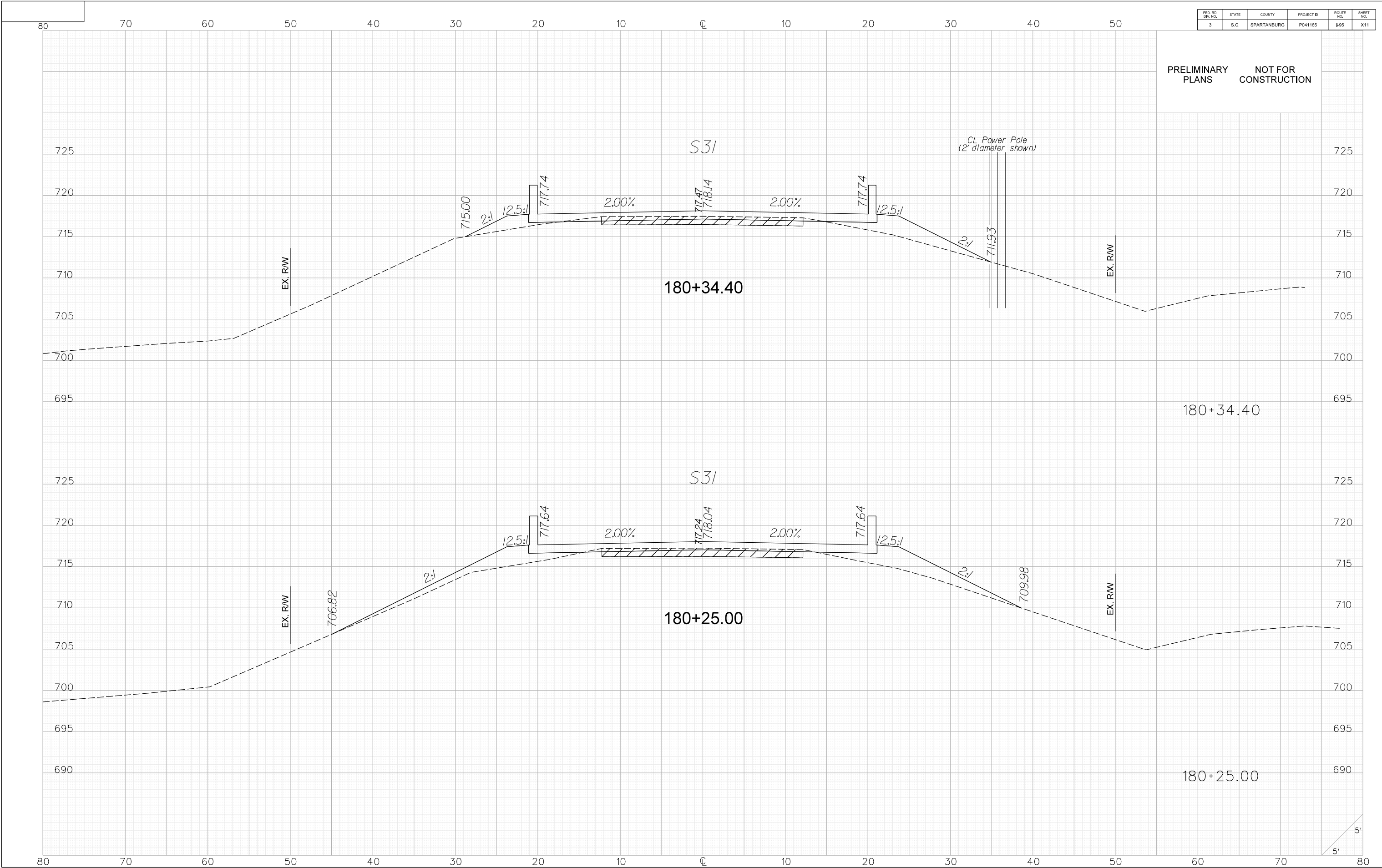
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FED. RD. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	P041165	195	X11

PRELIMINARY  
PLANS

NOT FOR  
CONSTRUCTION



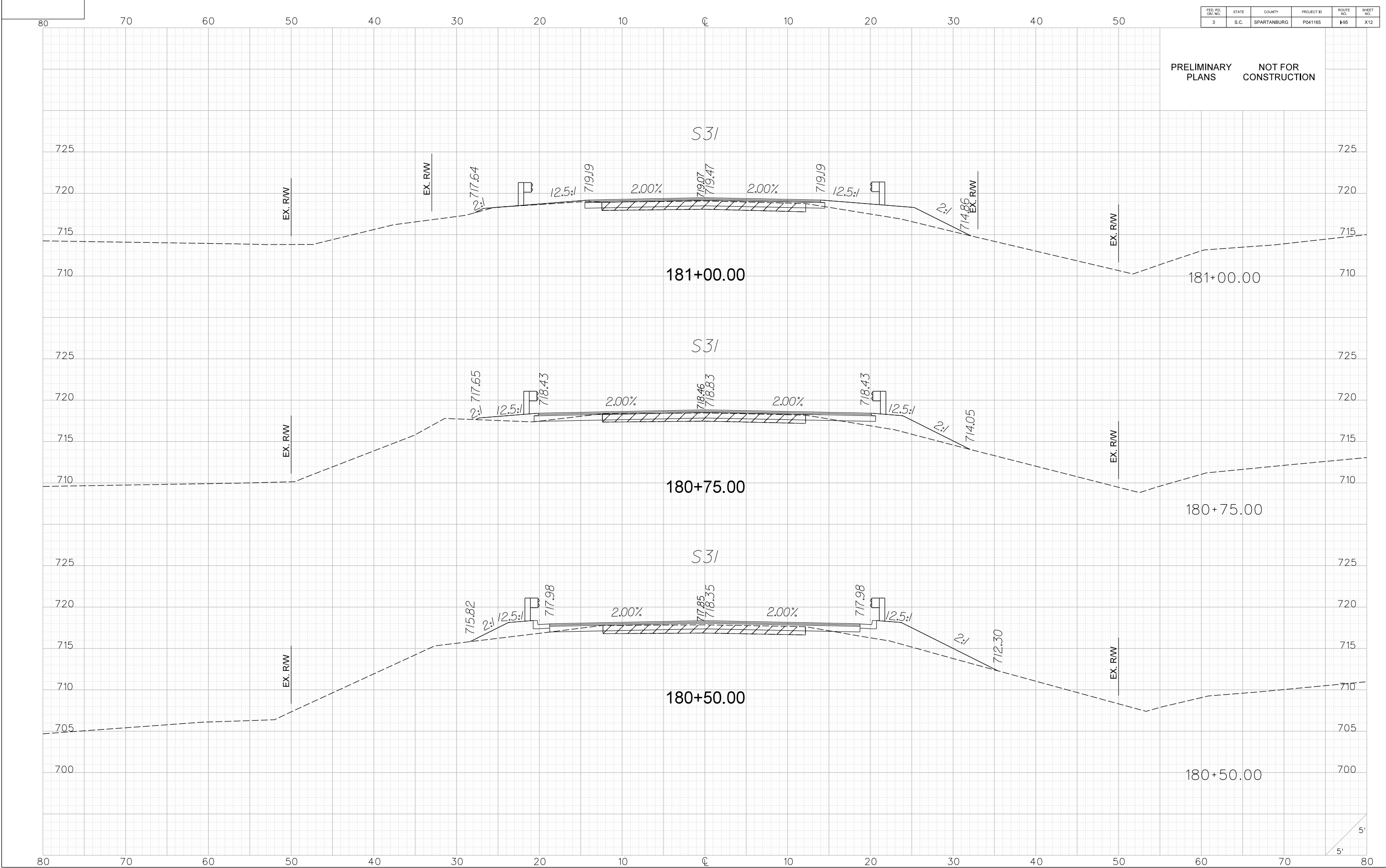
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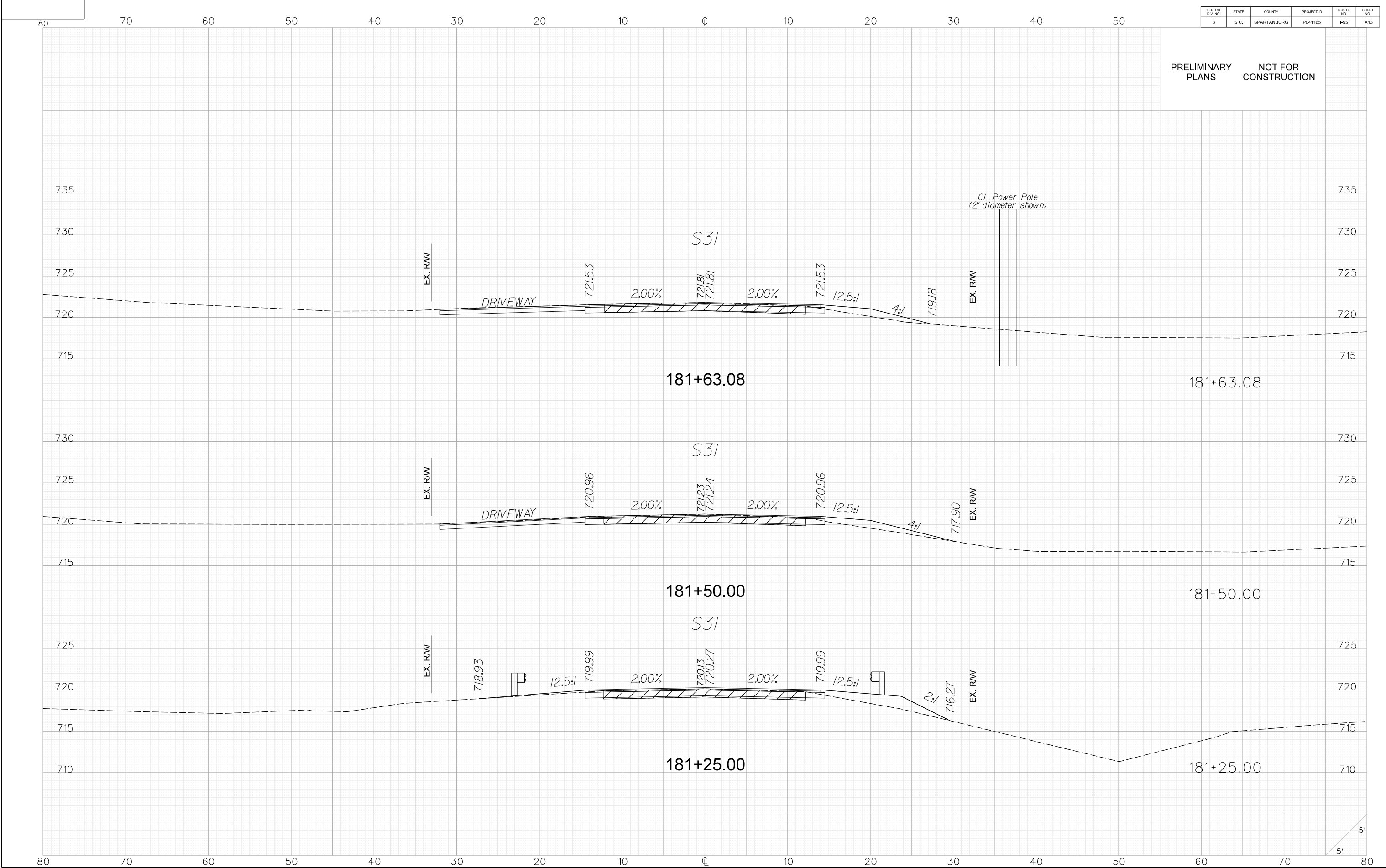
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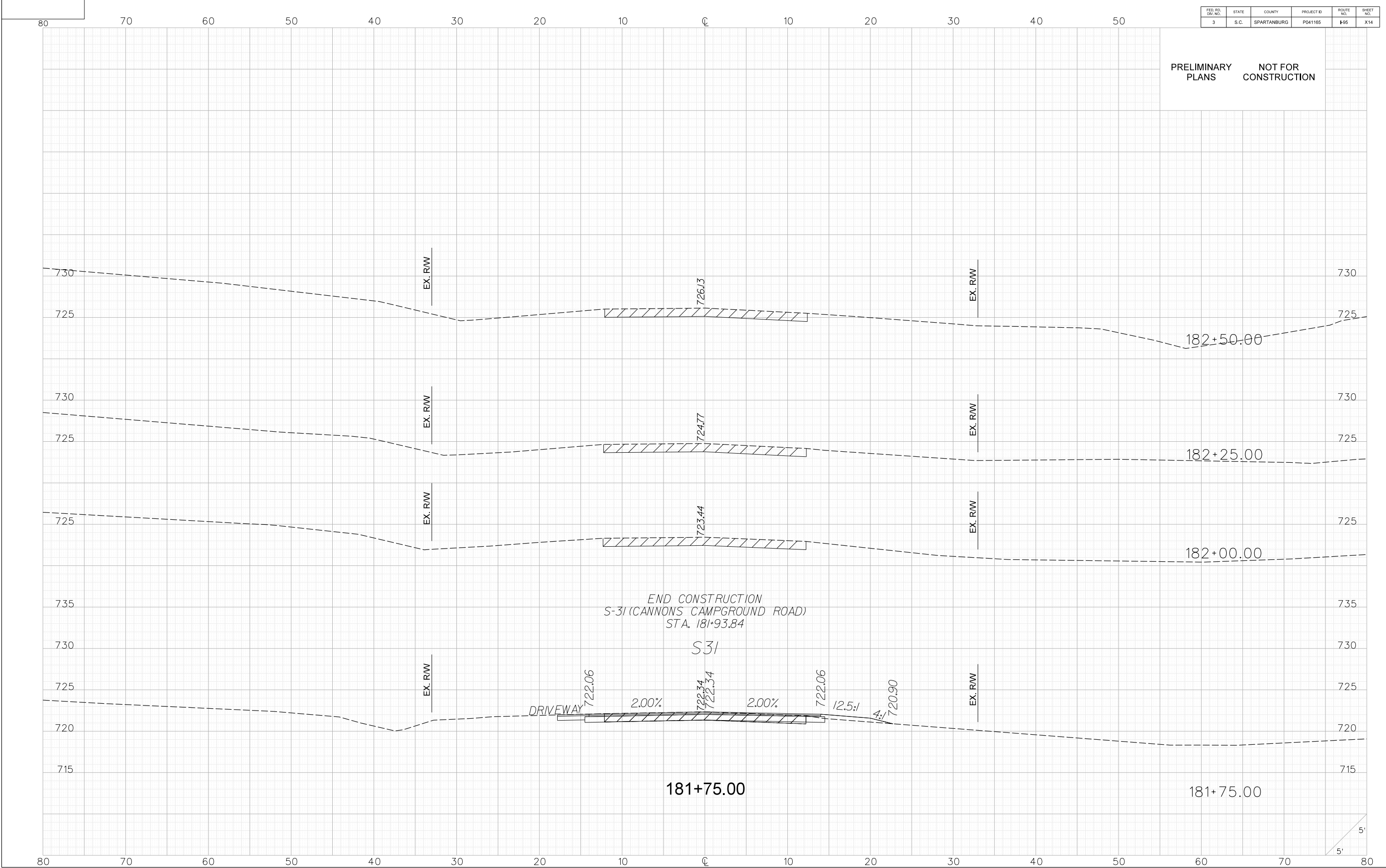
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PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl

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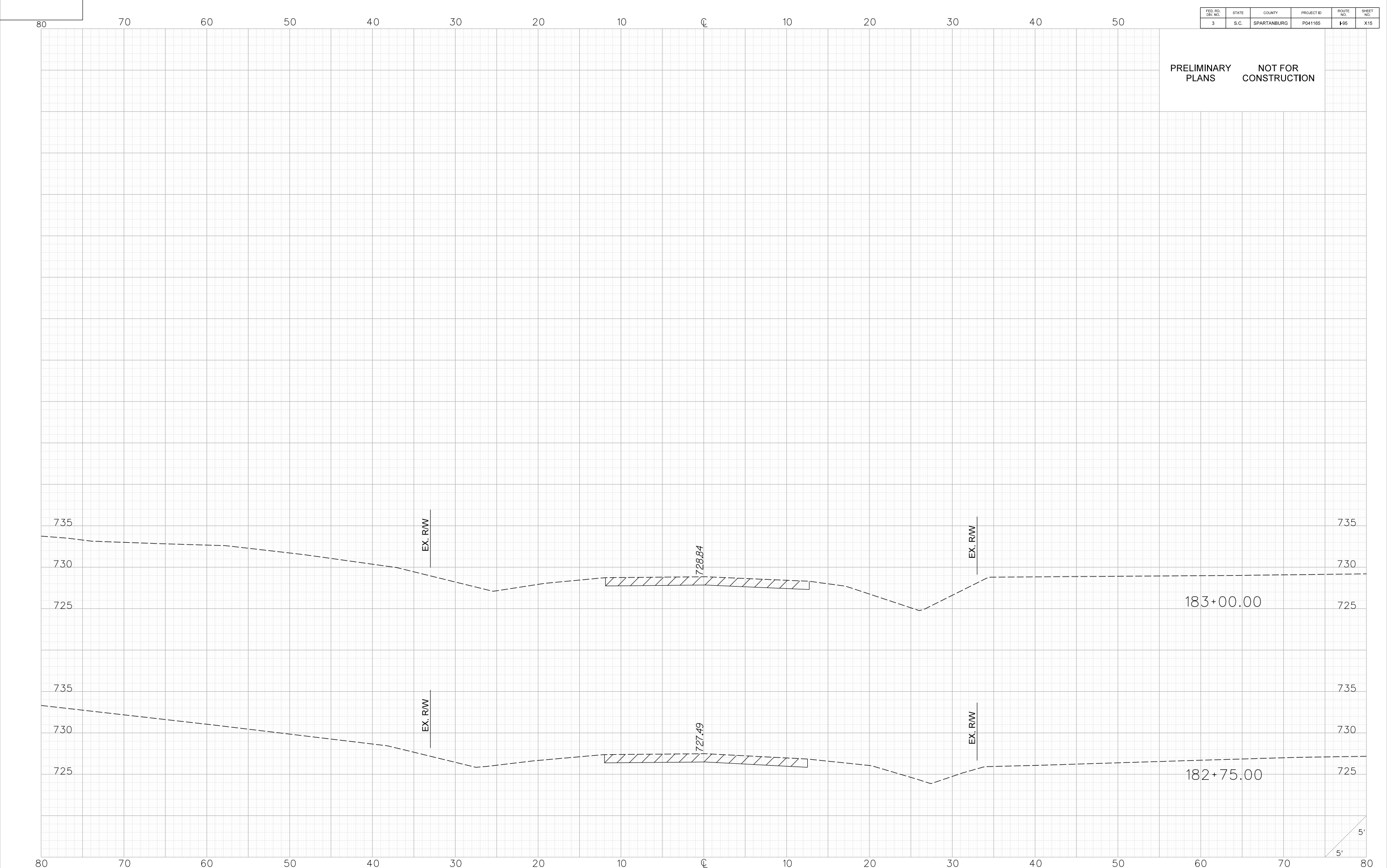
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PRELIMINARY  
PLANS

NOT FOR  
CONSTRUCTION

FED. RD. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET
3	S.C.	SPARTANBURG	P041165	195	X15

## Appendix B – Required Forms & Confidential and Proprietary Information Page List



This document is bookmarked for your convenience.  
Green and underlined text within this document indicates  
a **HYPERLINK** and will take you to more detailed information.

To return to your previous location, simply type **Alt and Back Arrow**



[Technical Proposal Narrative](#) | [A.1 - Bridge Plans](#) | [A.2 - Roadway Plans](#) | [B - Forms](#) | [C - ATCs](#)



## 11. NON-COLLUSION CERTIFICATION

### NON-COLLUSION CERTIFICATION

Project ID: P041165

IN ACCORDANCE WITH THE PROVISIONS OF S.C. CODE ANN. §§ 39-3-10 ET. SEQ., 39-5-10 ET. SEQ., 15 U.S.C. §45; 23 C.F.R. §635.112(F); AND 28 U.S.C. §1746, I HEREBY ACKNOWLEDGE THAT I AM AN OFFICER OF THE PROPOSER FIRM AND, UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE UNITED STATES AND SOUTH CAROLINA, DECLARE, BY MY CERTIFICATION BELOW, THAT THE FOLLOWING IS TRUE AND CORRECT, AND FURTHER, THAT THIS FIRM, ASSOCIATION OR CORPORATION HAS NOT, EITHER DIRECTLY OR INDIRECTLY, ENTERED INTO ANY AGREEMENT, PARTICIPATED IN ANY COLLUSION, OR OTHERWISE TAKEN ANY ACTION IN RESTRAINT OF FREE COMPETITIVE BIDDING IN CONNECTION WITH THE SUBMISSION OF A BID PROPOSAL ON THE ABOVE REFERENCED PROJECT.

BY CHECKING THIS BOX ☒, I CERTIFY THAT I HAVE READ, UNDERSTAND, ACCEPT, AND ACKNOWLEDGE ALL OF THE ABOVE STATEMENTS.

Executed on 4-3-25  
(Date)

Signed: Chris Lee  
(Officer/Proposer)

Vice President  
(Title)

248 Plennons Rd  
(Address)

Duncan, SC 29334

## 12. EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

### (COMPLETE THIS SECTION FOR FEDERAL PROJECTS ONLY) EQUAL EMPLOYMENT OPPORTUNITY PERFORMANCE

Select the Certification that applies to the PROPOSER:

Certification (1) ☒ or Certification (2) ☐

Select the appropriate responses in the applicable Certification:

Certification (1): Pursuant to 41 C.F.R. §60-1.7(b)(1), Previous Equal Employment Opportunity Performance Certification, as the Prospective Prime Contractor, I HEREBY CERTIFY THAT I:

- (a) (HAVE) / HAVE NOT developed and filed an Affirmative Action Program pursuant to 41C.F.R. §60-2 and/or 60-4;
- (b) (HAVE) / HAVE NOT participated in a previous contract or subcontract subject to the equal opportunity clause;
- (c) (HAVE) / HAVE NOT filed with the Joint Reporting Committee, the Director of Office of Federal Contract Compliance, or the Equal Employment Opportunity Commission, all reports due under the applicable filing requirements,

OR

Certification (2): I, HEREBY CERTIFY that as the Prospective Prime Contractor submitting this Proposal, (CLAIM / DO NOT CLAIM) exemption from the submission of the Standard Form 100 (EEO-1) due to the fact that it employs a total of less than fifty (50) employees under C.F.R. §60-1.7, or qualifies for an exempted status under 41 C.F.R. §60-1.5.

I FURTHER CERTIFY that the above Certification will be made part of any Subcontract Agreement involved with this project.

Executed on 4/3, 20 25.

Signed: Chant  
(Officer/PROPOSER)

Title: Vice President

Company: Racoon Construction Company

Address: 248 Plennons Rd.  
Duncan, SC 29334

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b)(1)), and must be submitted by PROPOSERS only in connection with contracts which are subject to the equal opportunity clause. Contracts that are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally, only contracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by Executive Orders or their implementing regulations.

Proposers, Primary Members, or proposed Contractors and Consultants who have participated in a previous contract subject to the Executive Orders and have not filed the required reports shall note that 41 CFR 60-1.7(b)(1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.





**Notice of Receipt of Addendum** | No Addendums were received.

**Disclosure of Potential Conflict of Interests Certification** | The Reeves-KCI DB Team does not have any conflicts of interest to disclose.

**Confidential and Proprietary Information Page List** | The Reeves-KCI DB Team does not have any proprietary information to disclose.

### 13. STIPEND ACKNOWLEDGEMENT FORM

## Stipend Acknowledgement Form

### S-31 (Cannons Campground Rd.) over Peters Creek Emergency Bridge Replacement Spartanburg County

Proposer: Reeves Construction Company

ADDRESS: 250 Plemmons Road, Duncan, SC 29334

The undersigned Proposer, hereby:

☐

Waives the stipend for this Project.

☒

Accepts the stipend for this Project.

By accepting the stipend for this Project, Proposer agrees:

1) to execute and include the Stipend Agreement in Article XIII of the RFP with its RFP response;


2) to submit an invoice with FEIN number for the stipend amount to the SCDOT POC after SCDOT's posting of the Notice of Award on SCDOT's Design-Build Website.;

3) to transfer all rights to its Work Product used to develop the Proposal as of the date of this acknowledgement. "Work Product" means all submittals, ideas, innovations, solutions, methods, processes, design concepts, materials, electronic files, marked up drawings, cross sections, quantity lists and intellectual property, made by Proposer during the RFP process, including the Proposal, exchange of information during the pre-Proposal and post-Proposal period.

SCDOT will pay the stipend to each eligible unsuccessful Proposer, who has signed a Stipend Agreement, within ninety (90) days after execution of the Contract or the decision to not award a contract.

04.15.2025

Date



Proposer

Ronald C.W. Barger

Print Name

## 14. STIPEND AGREEMENT

### STIPEND AGREEMENT

Project ID: P041165

### S-31 (Cannons Campground Rd.) over Peters Creek Emergency Bridge Replacement Spartanburg County

**THIS STIPEND AGREEMENT** (the “Agreement”) is made and entered into as of the 15<sup>th</sup> day of April, 2025 by and between the SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION (hereinafter “SCDOT”), and Reeves Construction Company (“Proposer”), with reference to the following facts:

SCDOT issued a Request for Proposal (“RFP”) for design and construction of the above-referenced Design-Build Project (“Project”), pursuant to procurement authority granted in Section 57-5-1625 of the S.C. Code of Laws, 1976, as amended. The RFP provided for payment of stipends as provided herein. Capitalized terms used, but not defined, have the meanings ascribed in the RFP.

**NOW, THEREFORE**, Proposer hereby agrees as follows:

#### 1. Work Product.

**1.1** Proposer shall prepare and submit a responsible and responsive Technical Proposal and Cost Proposal that conforms in all material respects to the requirements and provisions of the RFP, as determined by SCDOT, and are timely received by SCDOT in accordance with the RFP Milestone Schedule.

**1.2** By signing this Stipend Agreement, Proposer agrees to transfer full and complete ownership to SCDOT of all Work Product. The Work Product (as defined below) shall become the property of SCDOT without restriction or limitation on its use, without further compensation or consideration, and can be used in connection with this Project or any future projects by SCDOT. Neither Proposer nor any of its team members shall copyright any of the material developed under this Agreement.

**1.3** The term “Work Product” shall mean the Proposal and all material, electronic files, marked up drawings, cross sections, quantity lists, submittals, ideas, innovations, solutions, methods, processes, design concepts, Trade Secrets or confidential information, and intellectual property, made by or produced for Proposer in the development and submission of the Technical and Cost Proposal, including exchanges of information during the pre-Proposal and post-Proposal period.

#### 2. Compensation and Payment.

**2.1** A stipend to Proposer for the Work Product described herein shall be ~~\$20,000.00~~ **\$32,500.00** and is payable to Proposer that was determined to be responsible and (1) submitted a responsive Technical Proposal and responsive Cost Proposal to the RFP which is not selected for award of this Project, or (2) was awarded the Contract but the Contract was terminated by SCDOT for convenience after the Submittal of Proposal Due Date (See Final RFP Milestone schedule) but prior to the Notice to Proceed #1. Responsibility of Proposers and responsiveness of the Technical Proposal and Cost Proposal will be determined by SCDOT as a condition of payment.

**2.2** SCDOT will pay the stipend to Proposer as follows, subject (as applicable) to the following conditions:

- (a) Proposer has submitted this signed Stipend Agreement, unchanged with its response to the RFP.
- (b) After posting of the Notice of Award on SCDOT’s Design-Build Website, Proposer has submitted to SCDOT an invoice, with FEIN Number, for the Stipend amount.
- (c) After execution of the Contract or the decision not to award a contract, SCDOT will pay the invoice for the stipend amount to the unsuccessful Proposer meeting the criteria of Section 2.1 within 90 calendar days of receipt of the invoice from Proposer.
- (d) If the procurement is suspended or cancelled prior to the Proposal Due Date (see FINAL RFP Milestone schedule), no stipend will be paid to Proposer.
- (e) After the submittal of Proposals, but prior to award, if the procurement is cancelled, all Proposers that provide a responsive Technical Proposal and Cost Proposal to the final RFP and submitted a signed Stipend Agreement with their RFP shall receive the stipend
- (f) In the event of a Best and Final Offer, only one stipend will be paid to each Proposer that executed a Stipend Agreement and met the other criteria and conditions herein.
- (g) No stipends will be paid to a Proposer who withdraws at any time from this procurement.

**2.3** Acceptance by the Proposer of payment of the stipend amount from SCDOT shall constitute a waiver by Proposer of any and all right, equitable or otherwise, to bring any claim in connection with this procurement, procurement process, award of the Contract, or cancellation of this procurement.

2.4 The Proposer awarded the contract shall be not eligible to receive a stipend.

2.5 If Proposer elects to waive payment of the stipend, SCDOT will not use the ideas or information contained in that Proposer's Proposal for this Project. However, the Proposer's Proposal will be subject to the South Carolina Freedom of Information Act.

### 3. Indemnities.

3.1 Subject to the limitations contained in Section 3.2, Proposer shall indemnify, protect and hold harmless SCDOT and its directors, officers, employees and contractors from, and Proposer shall defend at its own expense, all claims, costs, expenses, liabilities, demands, or suits at law or equity arising, in whole or in part, from the negligence or willful misconduct of Proposer or any of its agents, officers, employees, representatives or subcontractors or breach of any of Proposer's obligations under this Agreement.

3.2 This indemnity shall not apply with respect to any claims, demands or suits arising from use of the Work Product by SCDOT.

### 4. Compliance With Laws.

4.1 Proposer shall comply with all federal, state, and local laws, ordinances, rules, and regulations applicable to the work performed or paid for under this Agreement and covenants and agrees that it and its employees shall be bound by the standards of conduct provided in applicable laws, ordinances, rules, and regulations as they relate to work performed under this Agreement. Proposer agrees to incorporate the provisions of this paragraph in any subcontract into which it might enter with reference to the work performed pursuant to this Agreement.

4.2 The Proposer agrees (a) not to discriminate in any manner against an employee or applicant for employment because of race, color, religion, creed, age, sex, marital status, national origin, ancestry or disability of a qualified individual with a disability; (b) to include a provision similar to that contained in subsection (a) in any subcontract; and (c) to post and to cause subcontractors to post in conspicuous places available to employees and applicants for employment, notices setting forth the substance of this clause.

### 5. Assignment.

Proposer shall not assign this Agreement without SCDOT's prior written consent. Any assignment of this Agreement without such consent shall be null and void.

### 6. Miscellaneous.

6.1 Proposer and SCDOT agree that Proposer, its team members, and their respective employees are not agents of SCDOT as a result of this Agreement.

6.2 This Agreement, together with the RFP, as amended from time to time, the provisions of which are incorporated herein by reference, embodies the entire agreement of the parties. There are no promises, terms, conditions, or obligations other than those contained herein or in the RFP, and this Agreement shall supersede all previous communications, representation, or agreements, either oral or written, between the parties hereto.

6.3 It is understood and agreed by the parties hereto that if any part, term, or provision of this Agreement is by the courts held to be illegal or in conflict with any law of the State of South Carolina, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provisions to be invalid.

6.4 This Agreement shall be governed by and construed in accordance with the laws of the State of South Carolina.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

Witness:

\_\_\_\_\_

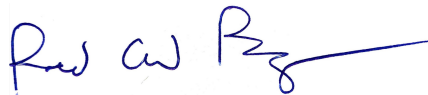
Recommended:

\_\_\_\_\_  
Tyler A. Clark

SOUTH CAROLINA DEPARTMENT  
OF TRANSPORTATION

By: \_\_\_\_\_

Jae Mattox  
Preconstruction Alternative Delivery Engineer





## Appendix C – Approved Formal ATCs Being Incorporated into the Proposer’s Cost Proposal



This document is bookmarked for your convenience.  
Green and underlined text within this document indicates  
a **HYPERLINK** and will take you to more detailed information.

To return to your previous location, simply type **Alt and Back Arrow**



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FINAL FATC DETERMINATION

Date Received: 4/10/2025

Date Reponse Sent: 4/10/2025

Reeves-KCI			SCDOT		
ATC No.	Primary Discipline	Concept	Response	Justification	Final?
1	Structures	Proposes to use AASHTO Type IV or 54" Modified Bulb Tee Girders in lieu of AASHTO Type III Girders.	Approved		Yes



# **APPENDIX C.1**

# **ALTERNATIVE**

# **TECHNICAL CONCEPTS**

**Appendix C.1: Alternative Technical Concept #1: Revised bridge typical section using AASHTO Type IV girders and 5 beam lines.**

# Formal Alternative Technical Concepts Submittal Form

**Project:** S-31 Cannons Campground Rd over Peters Cr. Emergency Bridge Replacement

**Project ID:** P041165

**ATC No.:** 1

**Priority:** High

**Team:** Reeves - KCI

**Date:** 4/8/25

## Description (required):

This ATC proposes to use AASHTO Type IV or 54" Modified Bulb Tee girders in lieu of AASHTO Type III girders. The superstructure deck overhang is 4'-0" to accommodate the deck drains, and the beam spacing is 8'-6 3/4". The typical section will use 5 beam lines instead of 6 beam lines.

Approval of this ATC increases the girder and pile offset dimension to the Duke distribution line (nearest wire) running parallel with the S-31 alignment and construction equipment needed to drive piling and set girders. Approval of this ATC will allow the project to be completed within the contract timeframe requirement and reduce associated schedule risk.

## Usage:

This ATC applies to the bridge.

## Deviations (required):

This ATC deviates from the superstructure requirements outlined in Exhibit 4b which requires 6 beam lines of AASHTO Type III girders, 8'-0" beam spacing, and 3'-1 1/2" deck overhangs.

## Justification:

Reference second paragraph in the Description Section. Also, this will speed up construction time.

## Schedule:

Approval of this ATC will negate need for Duke to relocate the overhead distribution plan and position the project to be completed per the contract schedule.

## Impacts:

No impacts - or reduced impacts since Duke distribution line will not be relocated.

## History:

The proposed ATC is in compliance with the standard design criteria of the SCDOT Bridge Design Manual.

## Risks:

Approval of this ATC reduces contract schedule risk.

## Costs (required):

This ATC is cost neutral.

## Quality:

This ATC will have no effects on quality.



# Formal Alternative Technical Concepts Submittal Form

**Project:** S-31 Cannons Campground Rd over Peters Cr. Emergency Bridge Replacement **Project ID:** P041165

**ATC No.:** 1 **Priority:** High **Team:** Reeves - KCI **Date:** 4/8/25

## Operations & Maintenance:

Approval of the ATC has no reduced operations or maintenance concerns.

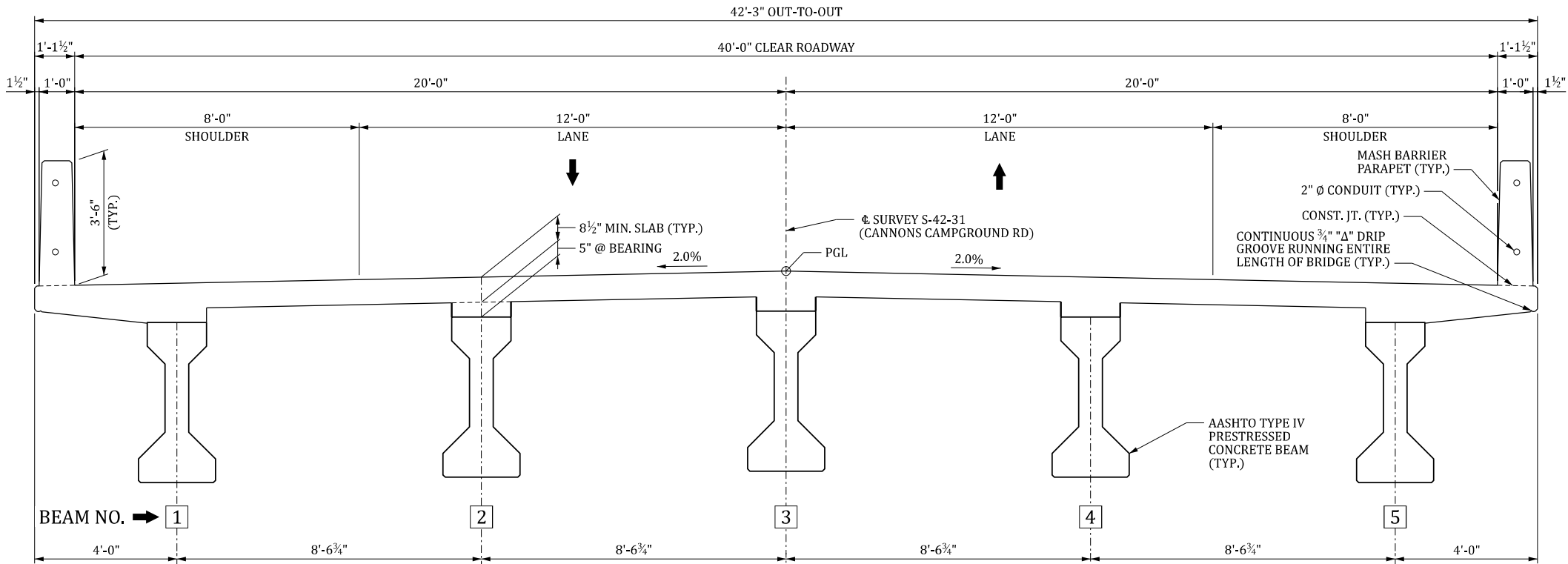




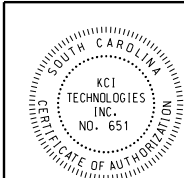
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QUAN.				BY	CHK.	DATE	
DR.							
DES.							

REV.				BY	CHK.	DATE	DESCRIPTION OF REVISION
REV.							
REV.							



TYPICAL SECTION  
(LOOKING IN DIRECTION OF STATIONING)



KCI TECHNOLOGIES

3014 SOUTHCROSS BOULEVARD, ROCK HILL, SC 29730

SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

BRIDGE TYPICAL SECTION

COUNTY: SPARTANBURG

ROUTE: S-42-31