PROJECT ID	SHEET NO.	TOTAL SHEETS
0032098	1	102

RELEASED FOR CONSTRUCTION
JANUARY 8, 2015

NOTE:
BRIDGE PLANS BOUND UNDER SEPARATE COVER

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5	DAM	05/25/17	REVISED SHT COUNT & DRIVES/TOTAL MILEAGE
4	DAM	01/11/17	REVISED NPDES PERMITTED AREA
3	DAM	09/30/16	REVISED SHT COUNT & DRIVES/TOTAL MILEAGE
2	DAM	07/30/15	REVISED BEGIN CONSTRUCTION LOCATION
1	DAM	04/27/15	REVISED TRAFFIC DATA

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

SCDOT
South Carolina Department of Transportation

PROPOSED PLANS
FOR
CHARLESTON & BERKELEY COUNTY
PROJECT ID 0032098
S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER THE WANDO RIVER

Design Reference for these plans is the:

2001

AASHTO "A Policy on Geometric Design of Highways and Streets"

Hydraulic Design Reference for these plans is the:

2009

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

NPDES PERMIT INFORMATION

Distrubed Area = 12.270 Acre(s)

Permitted Area = 14.270 Acre(s)

Approximate Location of Roadway is

Begin
Latitude 32° 55′ 05″
Longitude 79° 49′ 45″

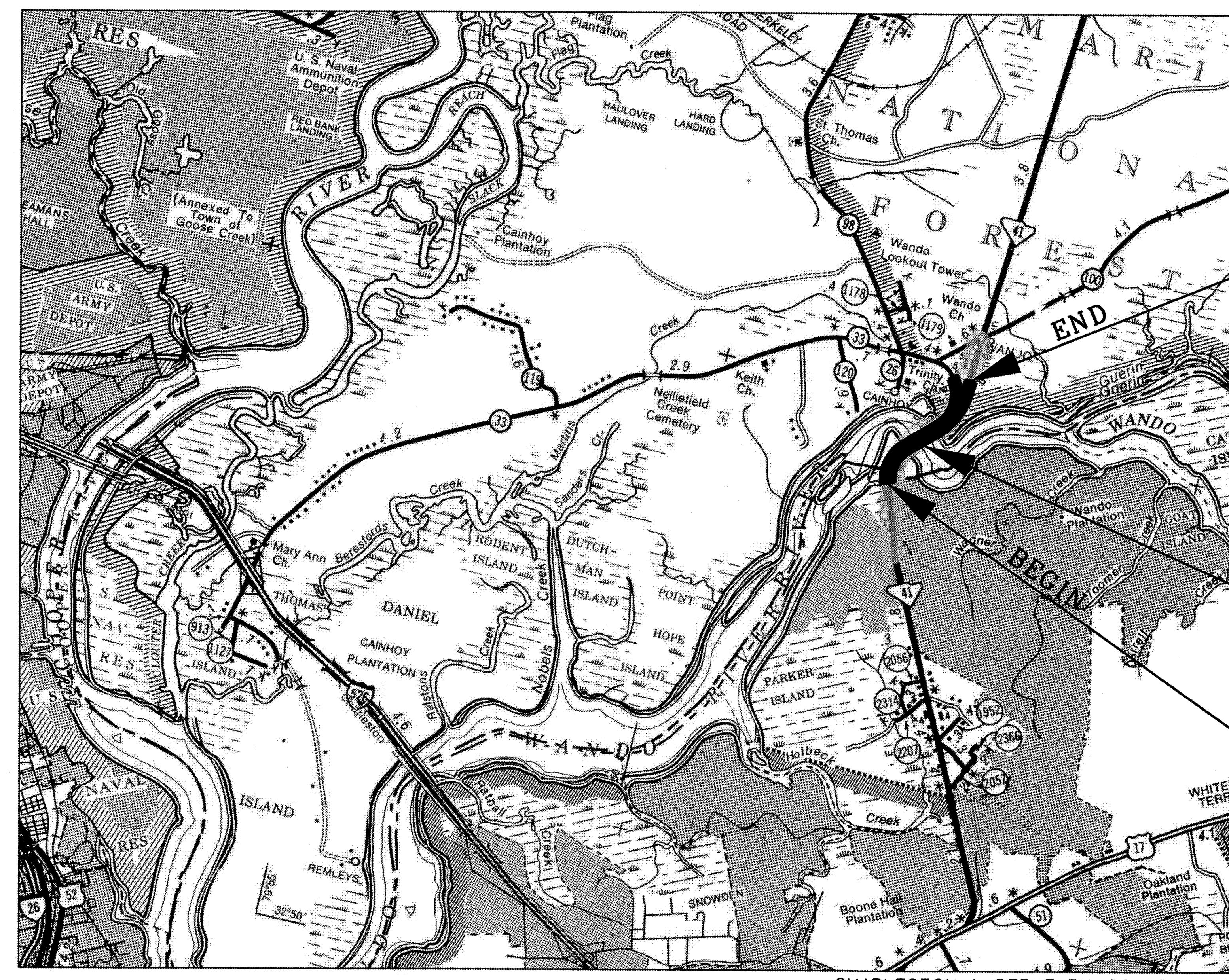
End
Latitude 32° 55′ 58″
Longitude 79° 49′ 19″

Hydraulic and NPDES Design provided by:

ICA Engineering

Designs may be obtained from the SCDOT Regional Production Group

-N-



LAYOUT
(NOT TO SCALE)

CHARLESTON & BERKELEY COUNTY MAP

PROJECT ID 0032098
S.C. ROUTE 41 / S-33
END PROJECT STA. 300+60.00

2,088.00 L.F. CONCRETE BRIDGE
STA. 254+44.00 TO STA. 275+32.00
(SEE BRIDGE PLANS)

PROJECT ID 0032098
S.C. ROUTE 41 / S-33
BEGIN PROJECT STA. 238+05.00

SCDOT REVIEW	RIGHT-OF-WAY INITIAL	RIGHT-OF-WAY DATE	CONSTRUCTION INITIAL	CONSTRUCTION DATE
PRECONSTRUCTION SUPPORT - ROAD				
PRECONSTRUCTION SUPPORT - STRUCTURES				
RPG - DESIGN MANAGER				
RPG - PROGRAM MANAGER				

THE INITIALS ABOVE DO NOT RELIEVE THE ENGINEER OF RECORD OF THE RESPONSIBILITY TO DESIGN THIS PROJECT IN ACCORDANCE WITH ALL APPLICABLE CRITERIA.

For Right Of Way Acquisition:

David A. Montgomery
Consultant Engineer of Record — Date

John D. Boylston
Regional Production Engineer — Date

ENVIRONMENTAL PERMIT INFORMATION

USACE PERMIT	X YES	NO
NEPA DOCUMENT	X YES	NO
401 CERTIFICATION	X YES	NO
OCRM CAP	X YES	NO

NAVIGABLE WATERS X SC X USCG X USACE 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

2015 ADT 12,800

2035 ADT 19,100

TRUCKS 20 %

	S.C. ROUTE 41/ ROAD S-33	S.C. ROUTE 41 N. RELOC.	SIDEROADS/ DRIVES	TOTAL
NET LENGTH OF ROADWAY	0.790 MILES	0.087 MILES	0.317 MILES	1.194 MILES
NET LENGTH OF BRIDGES	0.395 MILES	0.000 MILES	0.000 MILES	0.395 MILES
NET LENGTH OF PROJECT	1.185 MILES	0.087 MILES	0.317 MILES	1.589 MILES
LENGTH OF EXCEPTIONS	0.000 MILES	0.000 MILES	0.000 MILES	0.000 MILES
GROSS LENGTH OF PROJECT	1.185 MILES	0.087 MILES	0.317 MILES	1.589 MILES

EQUALITIES IN STATIONING:
NONE

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 (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

PLANS PREPARED FOR:
PCL
CONSTRUCTION

PLANS PREPARED BY:
ICA
Engineering
501 Huger St, Columbia SC, 29201

ENGINEER OF RECORD

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
ICA ENGINEERING INC.
No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
DAVID A. MONTGOMERY
No. 17997
5/25/17

FOR CONSTRUCTION 5/25/17
DATE

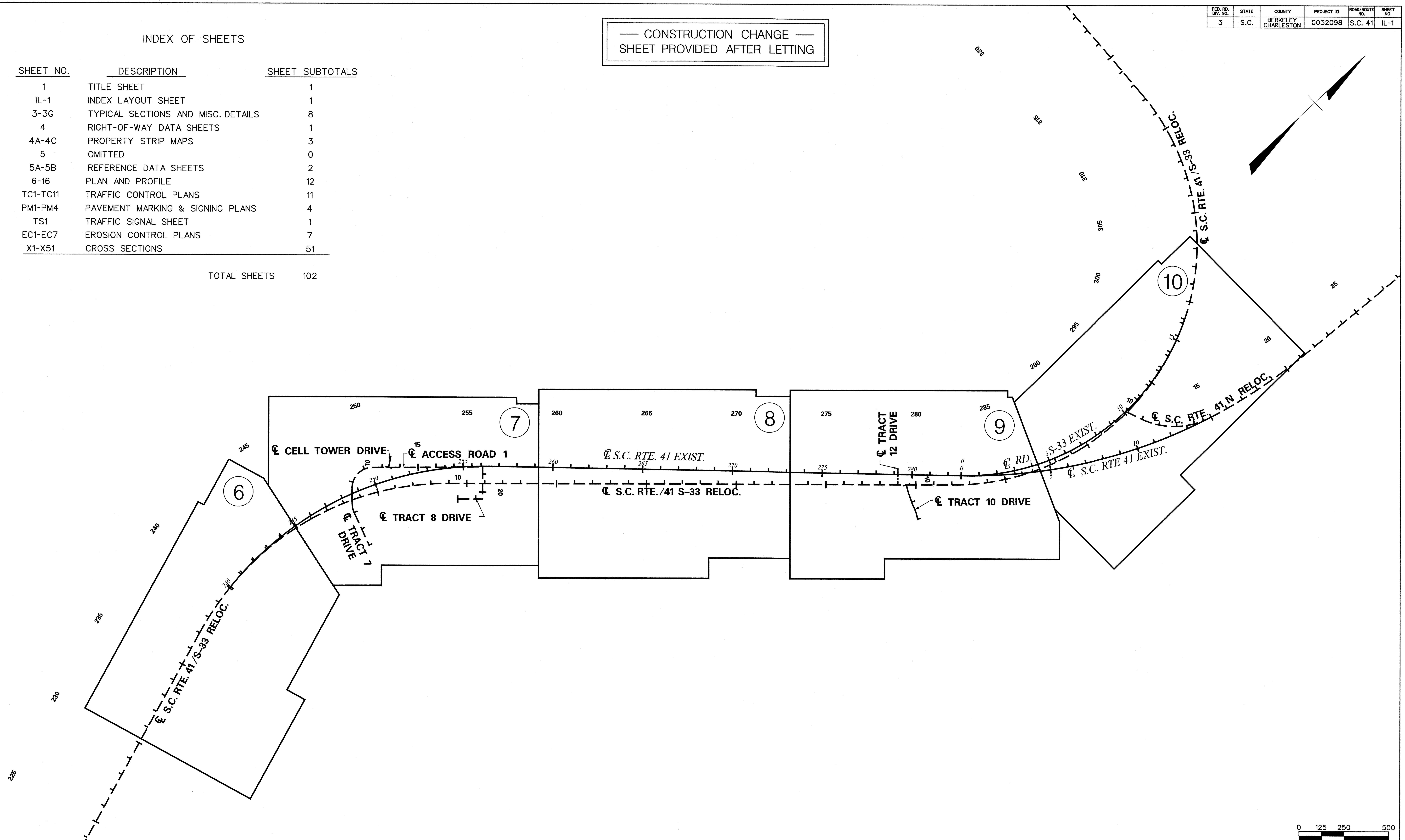
5/25/2017
L:\1315001 - SC 41 over Wando River\Plan\Sht01_Title_Wando.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	IL-1

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	SHEET SUBTOTALS
1	TITLE SHEET	1
IL-1	INDEX LAYOUT SHEET	1
3-3G	TYPICAL SECTIONS AND MISC. DETAILS	8
4	RIGHT-OF-WAY DATA SHEETS	1
4A-4C	PROPERTY STRIP MAPS	3
5	OMITTED	0
5A-5B	REFERENCE DATA SHEETS	2
6-16	PLAN AND PROFILE	12
TC1-TC11	TRAFFIC CONTROL PLANS	11
PM1-PM4	PAVEMENT MARKING & SIGNING PLANS	4
TS1	TRAFFIC SIGNAL SHEET	1
EC1-EC7	EROSION CONTROL PLANS	7
X1-X51	CROSS SECTIONS	51
	TOTAL SHEETS	102



4			
3	DAM	05/25/17	ADDED CELL TOWER DRIVE REVISED SHEET COUNT FOR X-SECTION & TOTAL
2	DAM	09/30/16	ADDED TRACTS 8 & 10 DRIVES REVISED SHEET COUNT FOR X-SECTION & TOTAL
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 250'

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
5/25/17

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

PLAN SHEET LAYOUT

S.C. RTE. 41 DWG. NO. IL-1

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	3

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

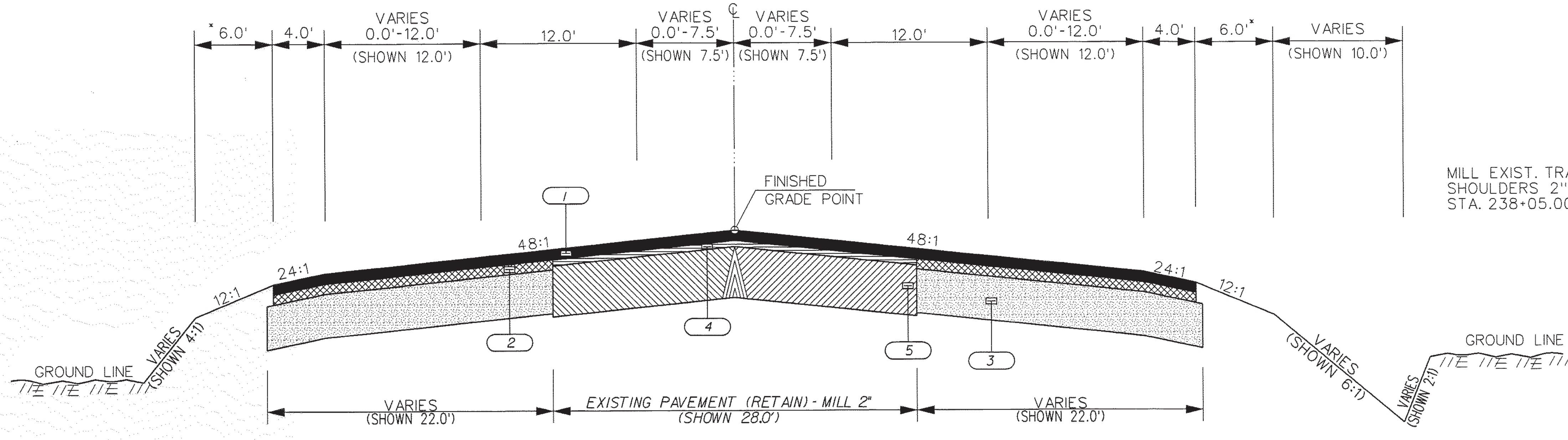
NOTES:

PAVEMENT WIDTHS VARY, SEE PLANS.

* ADD 3.5' TO SHOULDER WIDTH WHEN GUARDRAIL IS PRESENT.

PAVEMENT UNDER GUARDRAIL ADJACENT TO PAVED SHOULDERS SHALL BE PROVIDED UTILIZING HMA SURFACE TYPE C AT A RATE OF 300 PSY.

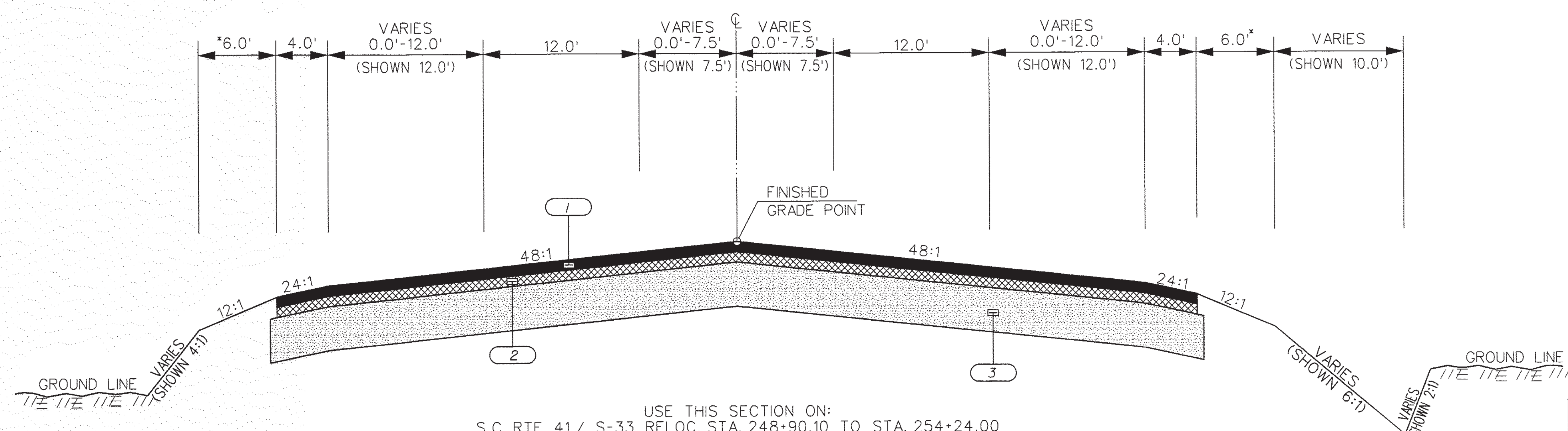
1



MILL EXIST. TRAVEL LANES AND PAVED SHOULDERS 2" AND PLACE HMASC (TYPE B) (200 PSY) STA. 238+05.00 TO STA. 240+02.40

USE THIS SECTION ON:
S.C. RTE. 41 / S-33 RELOC.STA. 240+02.40 TO STA. 248+90.10
S.C. RTE. 41 / S-33 RELOC. STA. 284+25.00 TO STA. 292+86.16

2



USE THIS SECTION ON:
S.C. RTE. 41 / S-33 RELOC. STA. 248+90.10 TO STA. 254+24.00
S.C. RTE. 41 / S-33 RELOC. STA. 275+52.00 TO STA. 284+25.00

1. HOT MIX ASPHALT SURFACE COURSE (TYPE B) (200 PSY)
2. HOT MIX ASPHALT INTERMEDIATE COURSE (TYPE B) (200 PSY)
3. HOT MIX ASPHALT BASE COURSE (TYPE A) (850 PSY)
4. HOT MIX ASPHALT SURFACE COURSE FOR BUILD-UP (TYPE B) (VAR.)
5. EXISTING PAVEMENT (RETAIN)

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
7/30/15

RTE. SC 41/S-33	DESIGN SPEED	
MPH	FROM STA.	TO STA.
45	240+02.40	300+60.00
EXCEPTIONS TO DESIGN SPEED		

PAVEMENT DESIGN

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2	DAM	07/30/15	REVISED BEGIN CONSTRUCTION LOCATION
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

FUNCTIONAL CLASS
URBAN ARTERIAL

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TYPICAL SECTION SHEET

SCALE 1"V=1' SCALE 1"H=5' S.C. RTE. 41

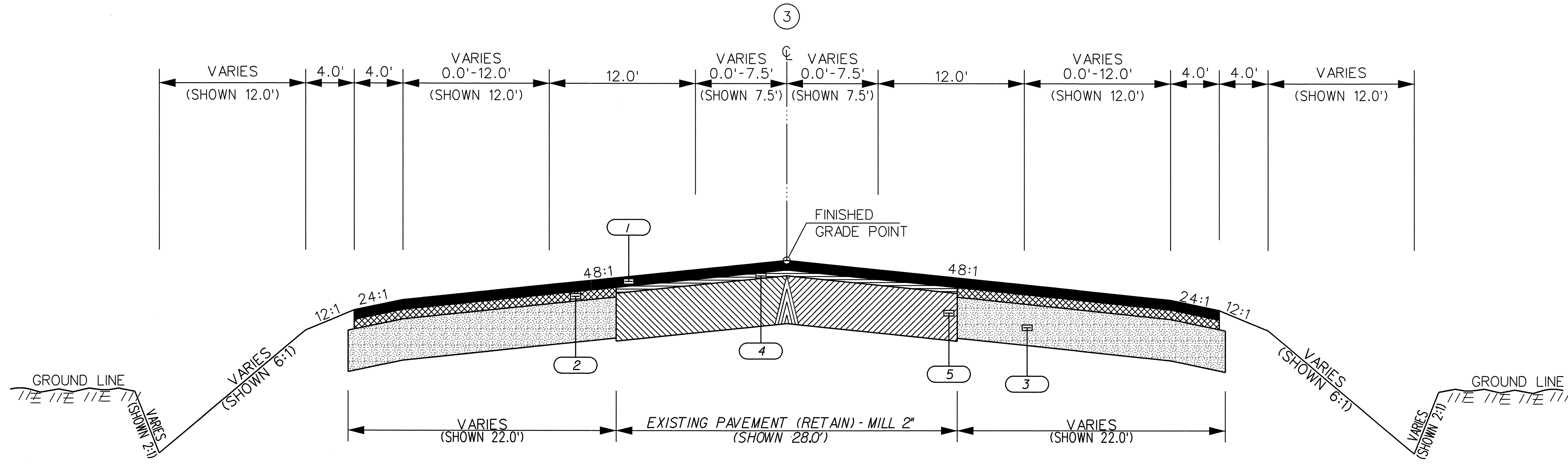
7/30/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht03_typ.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	3A

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

NOTES:

PAVEMENT WIDTHS VARY, SEE PLANS.



USE THIS SECTION ON:
S.C. RTE. 41 / S-33 RELOC. STA. 292+86.16 TO STA. 300+60.00

1/8/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht03A_typ.dgn

1	HOT MIX ASPHALT SURFACE COURSE (TYPE B) (200 PSY)
2	HOT MIX ASPHALT INTERMEDIATE COURSE (TYPE B) (200 PSY)
3	HOT MIX ASPHALT BASE COURSE (TYPE A) (850 PSY)
4	HOT MIX ASPHALT SURFACE COURSE FOR BUILD-UP (TYPE B) (VAR.)
5	EXISTING PAVEMENT (RETAIN)

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

RTE. SC 41/S-33	DESIGN SPEED	
MPH	FROM STA.	TO STA.
45	240+02.40	300+60.00
EXCEPTIONS TO DESIGN SPEED		

PAVEMENT DESIGN

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

FUNCTIONAL CLASS

COLLECTOR

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TYPICAL SECTION SHEET

SCALE 1"V=1' SCALE 1"H=5' S.C. RTE. 41

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	3B

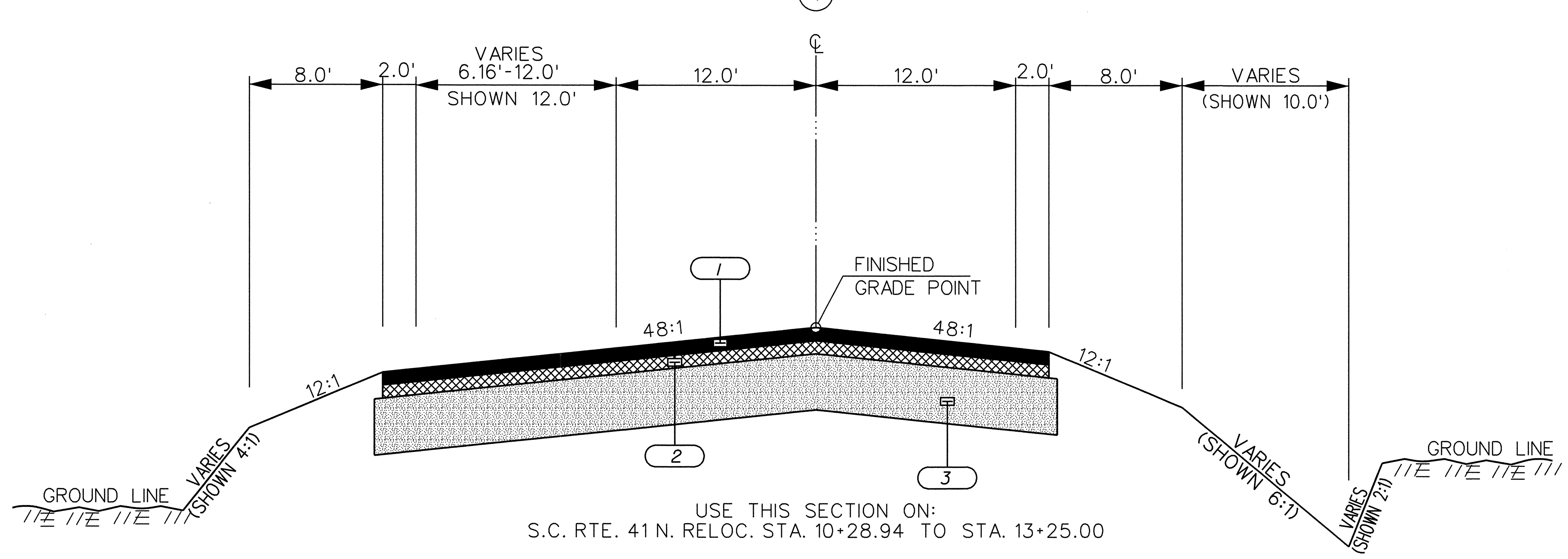
TYPICAL SECTION OF IMPROVEMENT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

NOTES:

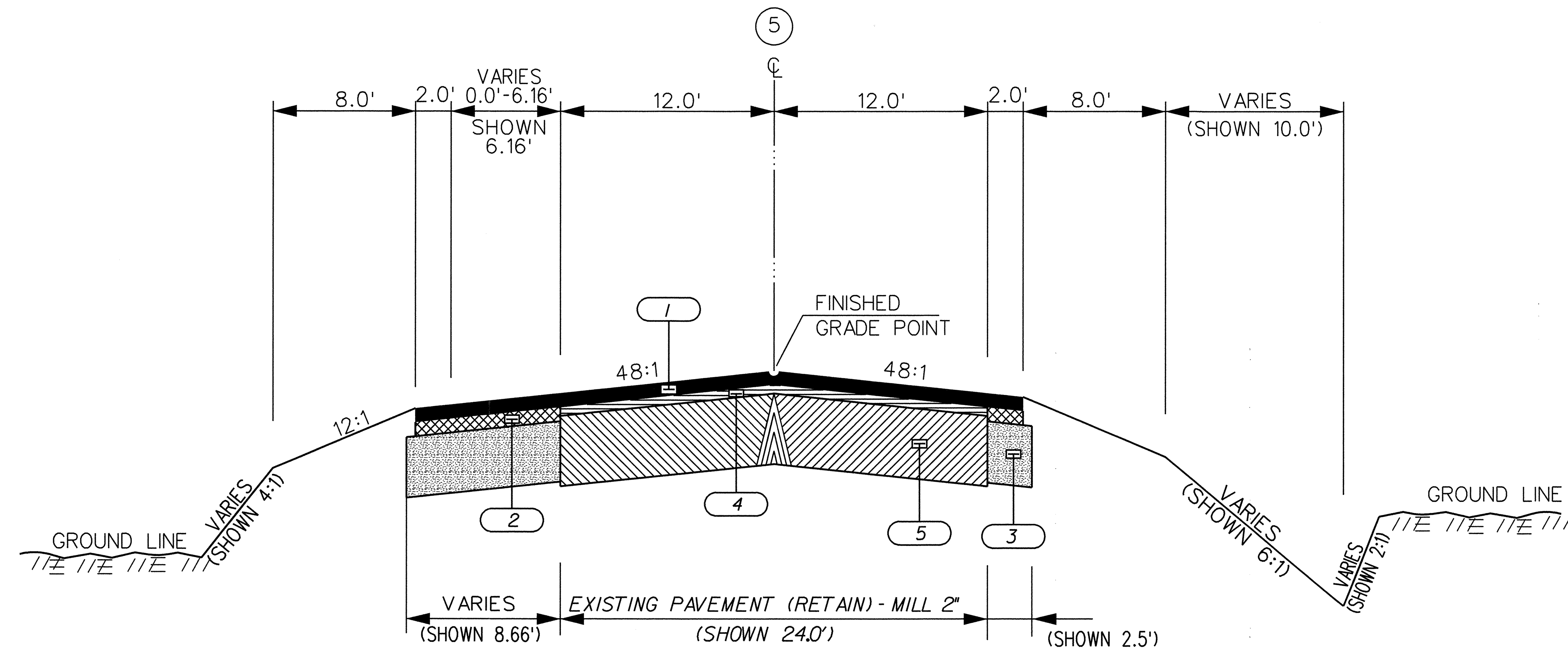
PAVEMENT WIDTHS VARY, SEE PLANS.

SEE PLANS FOR LOCATION OF CONCRETE ISLAND.

SEE STANDARD DRAWING NO. 720-105-03 FOR DETAILS OF CONCRETE ISLAND.



USE THIS SECTION ON:
S.C. RTE. 41 N. RELOC. STA. 10+28.94 TO STA. 13+25.00



USE THIS SECTION ON:
S.C. RTE. 41 N. RELOC. STA. 13+25.00 TO STA. 14+88.56

1	HOT MIX ASPHALT SURFACE COURSE (TYPE B) (200 PSY)
2	HOT MIX ASPHALT INTERMEDIATE COURSE (TYPE B) (200 PSY)
3	HOT MIX ASPHALT BASE COURSE (TYPE A) (850 PSY)
4	HOT MIX ASPHALT SURFACE COURSE FOR BUILD-UP (TYPE B) (VAR.)
5	EXISTING PAVEMENT (RETAIN)

FUNCTIONAL CLASS: URBAN ARTERIAL

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

RTE. SC 41 N. RELOC. DESIGN SPEED		
MPH	FROM STA.	TO STA.
35	10+28.94	14+88.56
EXCEPTIONS TO DESIGN SPEED		

PAVEMENT DESIGN

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TYPICAL SECTION SHEET

SCALE 1"V=1' SCALE 1"H=5' S.C. RTE. 41

1/8/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht03B_typ.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	3C

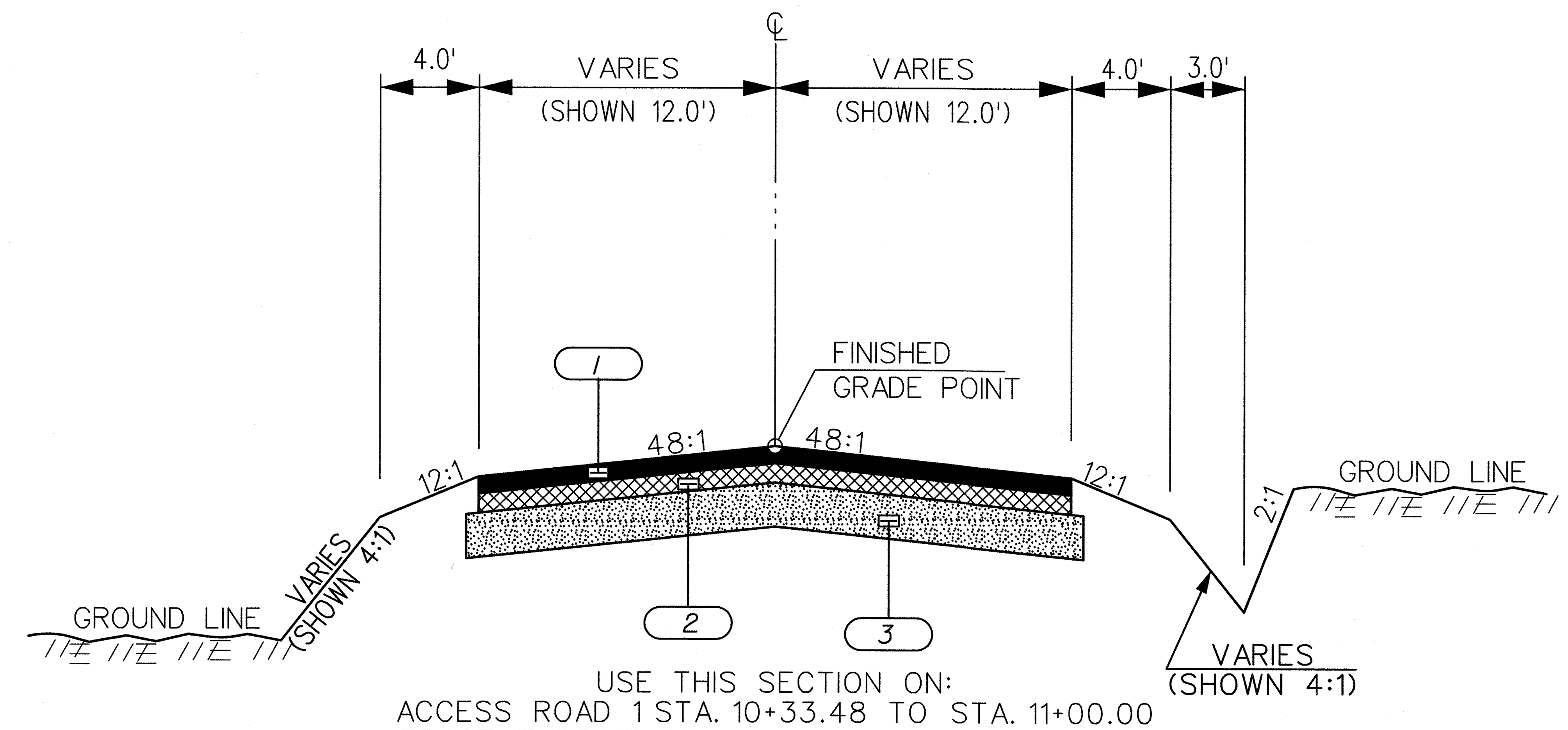
— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

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

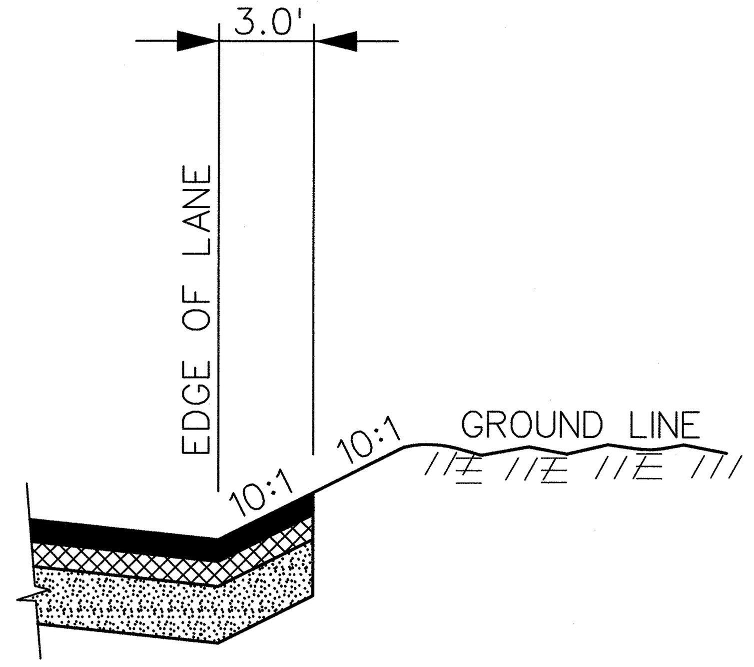
NOTES:

PAVEMENT WIDTHS VARY, SEE PLANS.

(6)

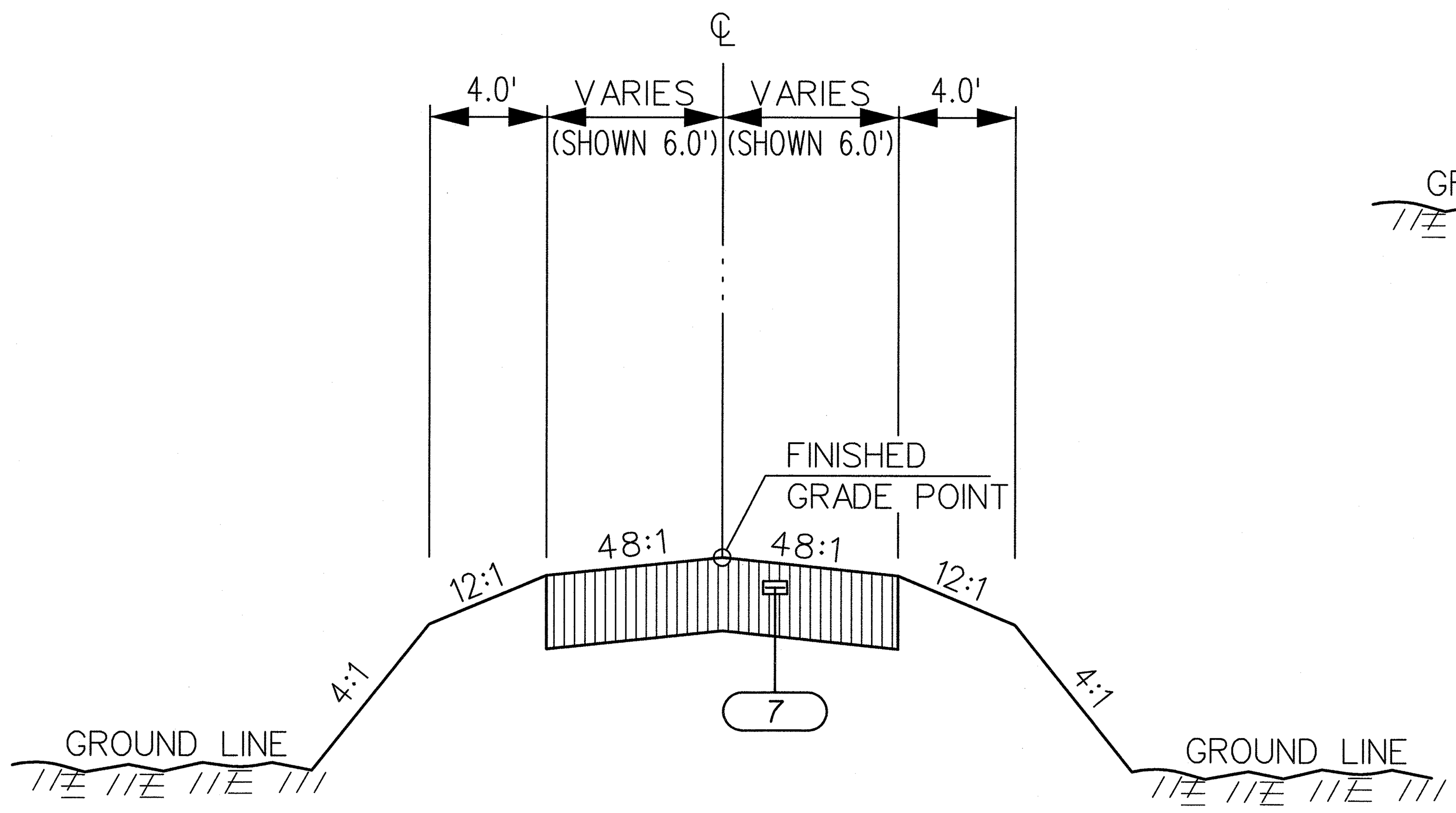


USE THIS SECTION ON:
ACCESS ROAD 1 STA. 10+33.48 TO STA. 11+00.00
TRACT 7 DRIVE STA. 10+49.75 TO STA. 11+50.61
TRACT 8 DRIVE STA. 10+00.00 TO STA. 11+38.25
TRACT 10 DRIVE STA. 10+20.18 TO STA. 10+95.00
TRACT 12 DRIVE 2 STA. 10+19.50 TO STA. 10+95.13
CELL TOWER DRIVE STA. 10+12.95 TO STA. 10+32.49



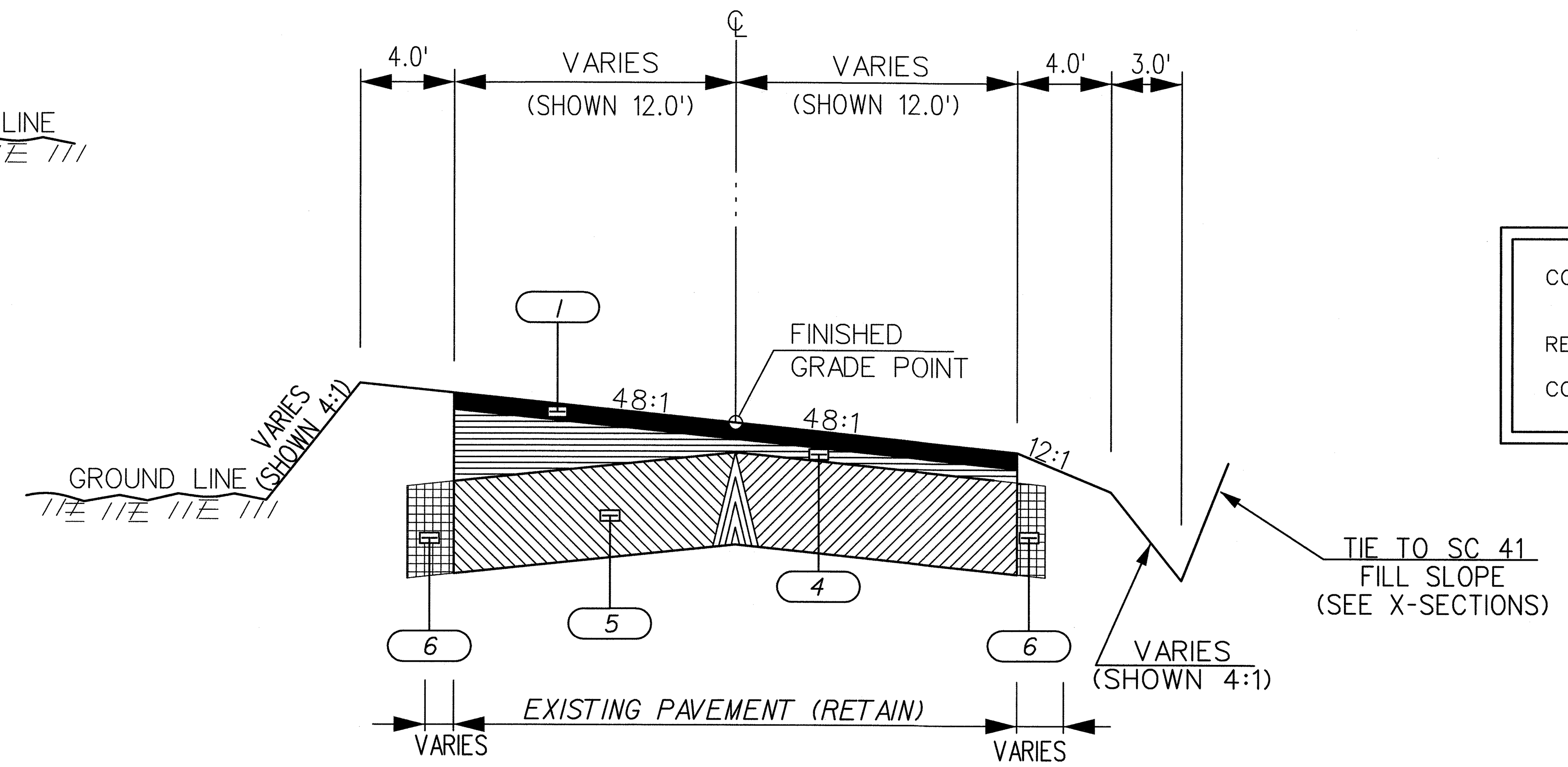
VALLEY GUTTER SECTION
USE THIS SECTION ON:
ACCESS ROAD 1 STA. 20+00.00 TO STA. 22+58.99
USE ON RIGHT SIDE OF STATIONING

(8)



USE THIS SECTION ON:
CELL TOWER DRIVE STA. 10+32.49 TO STA. 10+73.00

(7)



USE THIS SECTION ON:
ACCESS ROAD 1 STA. 11+00.00 TO STA. 22+58.99

CONSTRUCT DRIVES USING THE FOLLOWING:

RESIDENTIAL - HOT MIX ASPHALT SURF. COURSE (TYPE B) 175 PSY
HOT MIX ASPHALT INTERMEDIATE COURSE (TYPE C) 200 PSY
COMMERCIAL - SAME AS ROADWAY

FUNCTIONAL CLASS (ACCESS RD 1)
LOCAL GROUP 2
FUNCTIONAL CLASS (DRIVES)
N/A

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	DAM	05/25/17	ADDED CELL TOWER DRIVE TO TYPICAL 6 ADDED TYPICAL 8 FOR CELL TOWER DRIVE
2	DAM	09/30/16	ADDED TRACT 8 & 10 DRIVES TO TYPICAL 6
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

1	*HOT MIX ASPHALT SURFACE COURSE (TYPE B) (175 PSY)*
2	*HOT MIX ASPHALT INTERMEDIATE COURSE (TYPE C) (200 PSY)*
3	*HOT MIX ASPHALT BASE COURSE (TYPE B) (450 PSY)*
4	*HOT MIX ASPHALT SURFACE COURSE FOR BUILD-UP (TYPE B) (VAR.)*
5	*EXISTING PAVEMENT (RETAIN)*
6	*EXISTING PAVEMENT (REMOVE)*
7	*EARTHEN DRIVE*

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 5/25/17

RTE. ACCES RD. 1	DESIGN SPEED	
MPH	FROM STA.	TO STA.
N/A		
EXCEPTIONS TO DESIGN SPEED		
TRACT 7 & 12 DRIVE	DESIGN SPEED	
MPH	FROM STA.	TO STA.
N/A		

PAVEMENT DESIGN

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

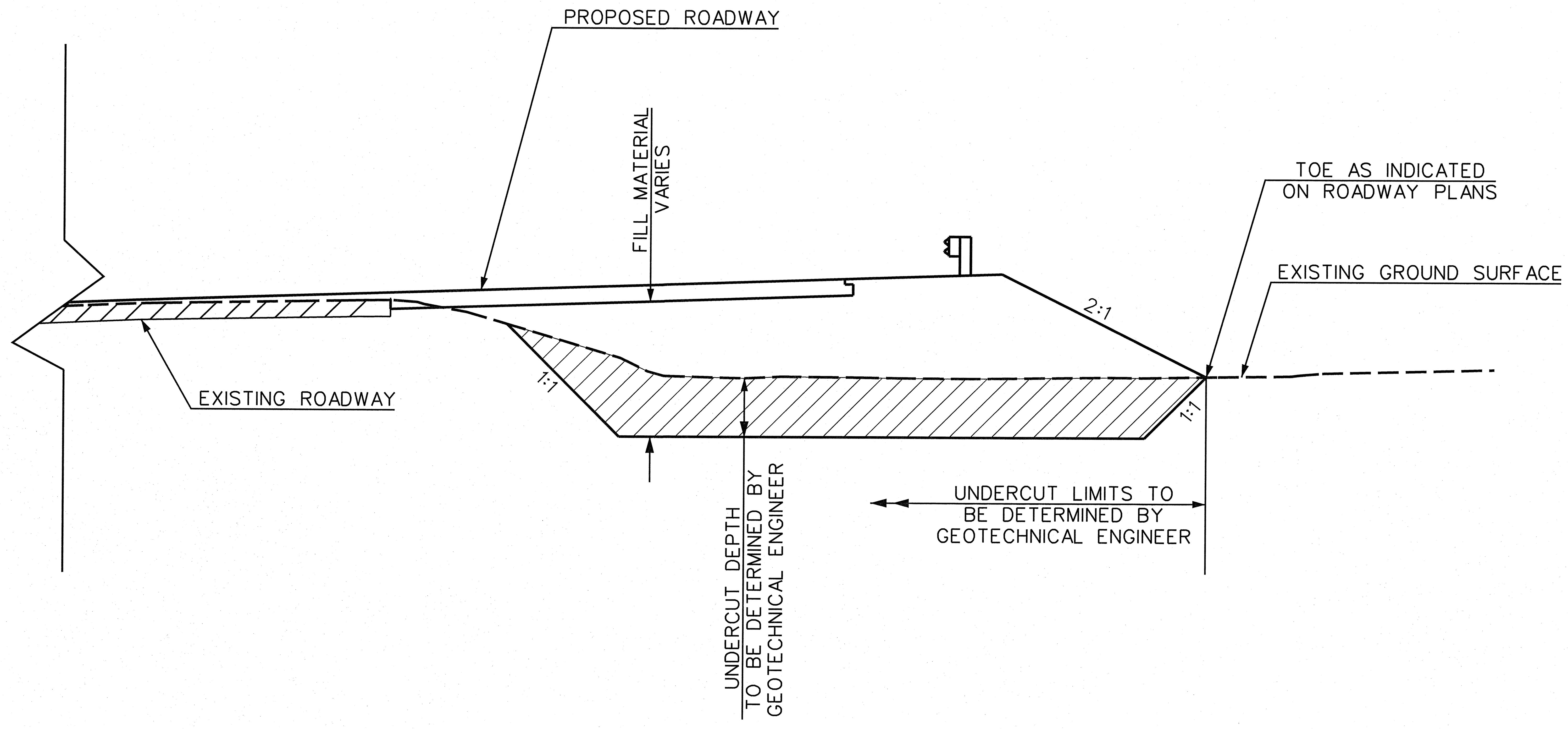
S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

TYPICAL SECTION SHEET

SCALE 1"V=1' SCALE 1"H=5' S.C. RTE. 41

5/25/2017
L:\1315001 - SC 41 over Wando River\Plan\Sht03C_typ.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	30



MUCKING DETAIL

(NOT TO SCALE)

MUCKING NOTES:

1. WETLAND AREAS IDENTIFIED ON THE PLANS AND ADDITIONAL AREAS THAT ARE DISCOVERED TO BE UNSTABLE MAY REQUIRE CORRECTIVE ACTION AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER. THIS MAY INCLUDE UNDERCUTTING, PLACING BRIDGE LIFT MATERIALS, PLACING GEO-TEXTILES, AND/OR ADDITIONAL COMPACTION AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER.
2. THE DEPTH AT WHICH MUCKING OR UNDERCUTTING WILL TAKE PLACE IS DEPENDENT ON THE EVALUATION OF THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER WILL PROVIDE WRITTEN DIRECTION FOR ANY UNDERCUTTING, MUCKING, AND/OR RECOMPACTION, AS REQUIRED.
3. ALL MUCK EXCAVATION AND BRIDGE LIFT MATERIALS WILL BE INCOMPLIANCE WITH SECTION 200 AND 203 OF THE SPECIAL PROVISIONS.

SETTLEMENT MONITORING

SETTLEMENT PLATES WILL BE USED TO MINITOR SETTLEMENT OF THE EMBANKMENTS. SETTLMENT PLATES WILL BE INSTALLED AT THE FOLLOWING LOCATIONS AFTER CLEARING AND GRUBBING AND BEFORE FILL BEGINS.

STATION	OFFSET	INSTALLATION ELEVATION	STATION	OFFSET	INSTALLATION ELEVATION
251+00	30 FEET RIGHT	EXISTING GROUND	275+32	30 FEET RIGHT	EXISTING GROUND
252+00	30 FEET RIGHT	EXISTING GROUND	275+32	30 FEET LEFT	EXISTING GROUND
253+00	30 FEET RIGHT	EXISTING GROUND	276+00	30 FEET RIGHT	EXISTING GROUND
253+00	30 FEET LEFT	EXISTING GROUND	277+00	30 FEET RIGHT	EXISTING GROUND
253+50	30 FEET RIGHT	EXISTING GROUND	277+00	30 FEET LEFT	EXISTING GROUND
254+44	30 FEET RIGHT	EXISTING GROUND	279+00	30 FEET RIGHT	EXISTING GROUND
254+44	30 FEET LEFT	EXISTING GROUND			

BASELINE ELEVATION READINGS WILL BE COLLECTED OVER 10 DAYS PRIOR TO THE START OF FILLING OPERATIONS IN THE VICINITY OF THE SETTLEMENT PLATES. 5 BASELINE ELEVATION READINGS WILL BE COLLECTED DURING THE 10 DAYS.

ALL SETTLEMENT PLATES WILL MEET THE REQUIREMENTS OF DIVISION 200 OF THE PROJECT SPECIAL PROVISIONS.

GENERAL EMBANKMENT CONSTRUCTION NOTES:

1. ALL ROADWAY FILL MATERIAL WILL MEET THE BORROW EXCAVATION REQUIREMENTS ON SECTION 203.2.1.8 OF SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2007.
2. BORROW WILL BE PLACED IN ACCORDANCE WITH SECTION 205 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2007.
3. BORROW PLACED ON EXISTING SLOPES WILL BE BENCHED AND COMPACTED IN ACCORDANCE WITH SECTION 205.4.4 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2007.
4. DURING CONSTRUCTION OF EMBANKMENTS, EXISTING ROADWAY ASPHALTS ON TRAVEL LANES WILL BE MONITORED FOR CRACKING DUE TO EMBANKMENT SETTLEMENT. IF CRACKING OCCURS, CONSTRUCTION ACTIVITIES IN THE VICINITY OF THE CRACKING WILL BE STOPPED. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AND PROVIDE A WRITTEN PROCEDURE FOR REPAIR OF THE CRACKING.
5. EMBANKMENTS CONSTRUCTED BETWEEN STATION 252+94 AND 254+44 REQUIRE A 60 DAY WAITING PERIOD BETWEEN REACHING FINAL SUBGRADE ELEVATION AND FINAL PAVING. THIS WAIT PERIOD MAY BE REDUCED OR LANGTHENED BASED ON THE RESULTS OF THE SETTLEMENT MONITORING PROGRAM.
6. REMOVAL OF UNDERGROUND STORAGE TANKS MAY BE REQUIRED DURING CONSTRUCTION. ALL VOIDS CREATED DURING THE REMOVAL OF STORAGE TANKS WILL BE BACKFILLED WITH PROPERLY COMPACTED BORROW MATERIAL IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2007.

BORROW MATERIAL

1. PROVIDE BORROW MATERIALS MEETING THE FOLLOWING REQUIREMENTS:

   A MATERIAL MEETING BORROW SPECIFICAATIONS OUTLINED IN THE SCDOT STANDARD SPECIFICATIONSFOR HIGHWAY CONSTRUCTION 2007 WITH A MINIMUM TOTAL UNIT WEIGHT OF 110 PCF.

   MINIMUM FRICTION ANGLE, ϕ, OF 32 DEGREES AND COHESION, c OF 0 PSF.

CROSSLINE PIPES SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING 714-020-00. PIPE FOUNDATION UNDERCUT OPTIONS FOR CROSSLINE PIPES ARE PROVIDED IN THE FOLLOWING TABLE

UNDERCUT REQUIREMENTS AT CROSS-LINE PIPES			
STATION	CULVERT DESCRIPTION	UNDERCUTTING BELOW PIPE BEDDING (IN.)	
		OPTION 1 WITHOUT GEOGRID	OPTION 2 WITH GEOGRID
240+71	30" SMOOTH WALL PIPE	CUSTOM[1]	CUSTOM[1]
254+01	18" SMOOTH WALL PIPE	N.A.[2,3]	N.A.[2,3]
275+71	18" SMOOTH WALL PIPE	N.A.[2,3]	N.A.[2,3]
281+34	24" SMOOTH WALL PIPE	20	6
288+27	24" SMOOTH WALL PIPE	27	12
10+71 (ACCESS RD)	24" SMOOTH WALL PIPE	20	6
13+82 (ACCESS RD)	18" SMOOTH WALL PIPE	16	3

1. UNDERCUTTING SHOULD BE DETERMINED AT THE TIME OF CONSTRUCTION BY GEOTECHNICAL ENGINEER DUE TO LOOSE SOILS BEWTEEN ELEVATIONS 3 TO -5 FEET NAVD88.
2. CULVERT IS POSITIONED INSIDE OF EMBANKMENT FILL; THEREFORE, NO UNDERCUTTING IS REQUIRED.
3. CULVERT PIPES WILL BE PLACED AFTER FULL HEIGHT EMBANKMENT CONSTRUCTION AND SETTLEMENT IS COMPLETE.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

DESIGN BY:

Terracon

TERRACON CONSULTANTS
1450 5TH STREET WEST
NORTH CHARLESTON, SC 29405

SOUTH CAROLINA TERRACON CONSULTANTS, INC. No. 2220 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA ... No. 27818 BRYAN T. SHIVER 1/1/15

LEAD CONSULTANT

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

MUCKING DETAILS AND GEOTECHNICAL NOTES

SCALE: NONE | S.C. RTE. 41

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	3E

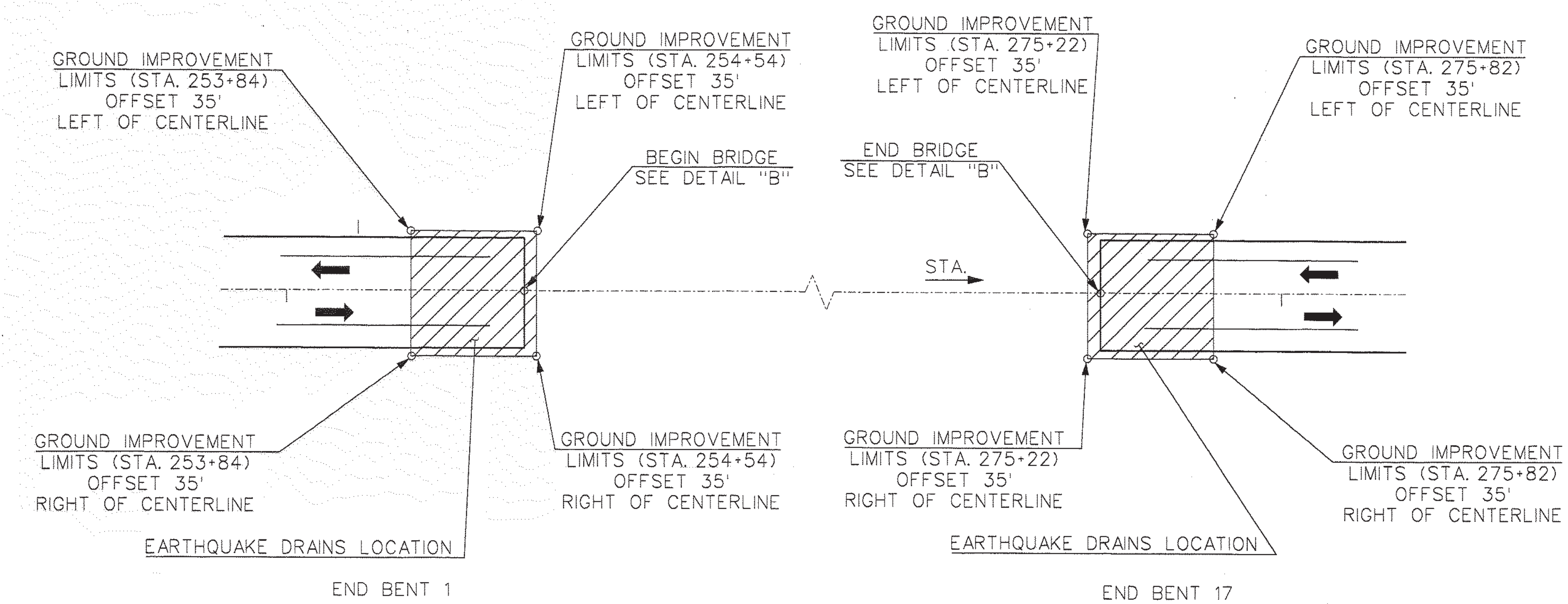
NOTES:

REMOVE ANY EXISTING PAVEMENT FROM STATIONS 253+84 TO 254+54 PRIOR TO INSTALLATION OF THE EARTHQUAKE DRAINS. EXCAVATE AND/OR PLACE FILL TO TOP OF EARTHQUAKE DRAIN ELEVATION. SUBSIDENCE WILL OCCUR DURING EARTHQUAKE DRAIN INSTALLATION. FOR PREFABRICATED EARTHQUAKE DRAIN WITH FILTER FABRIC, SEE SPECIAL PROVISIONS.

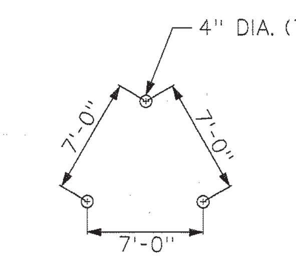
EARTHQUAKE DRAINS WILL NOT REQUIRE A DRAINAGE LAYER.

CONSTRUCTION SEQUENCE:

1. PREPARE SITE FOR EARTHQUAKE DRAIN INSTALLATION.
2. INSTALL EARTHQUAKE DRAINS AS SHOWN. PROVIDE A MINIMUM CENTER-TO-CENTER SPACING OF 2 FEET BETWEEN EARTHQUAKE DRAINS AND PROPOSED BRIDGE PILE LOCATIONS. SEE DETAIL "B".
3. INSTALL ROADWAY EMBANKMENT
4. DRIVE END BENT PILES AND CONSTRUCT END BENT CAP
5. PAVE ROADWAY AFTER PRESCRIBED WAITING PERIOD

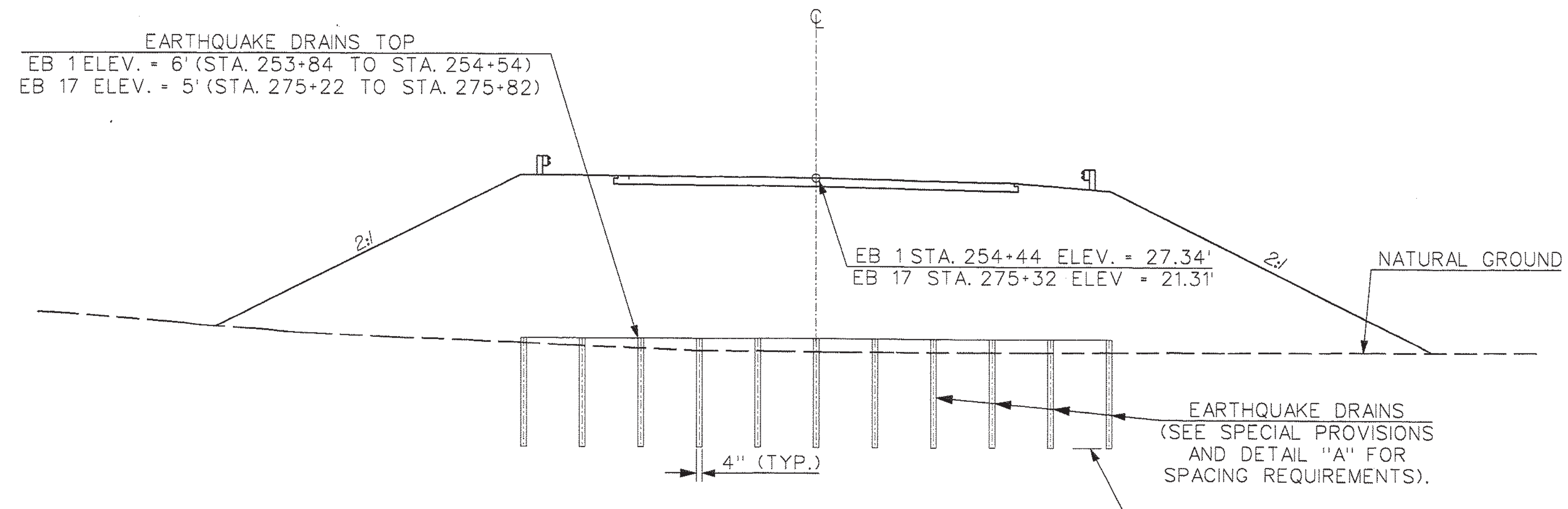


PLAN
(NOT TO SCALE)

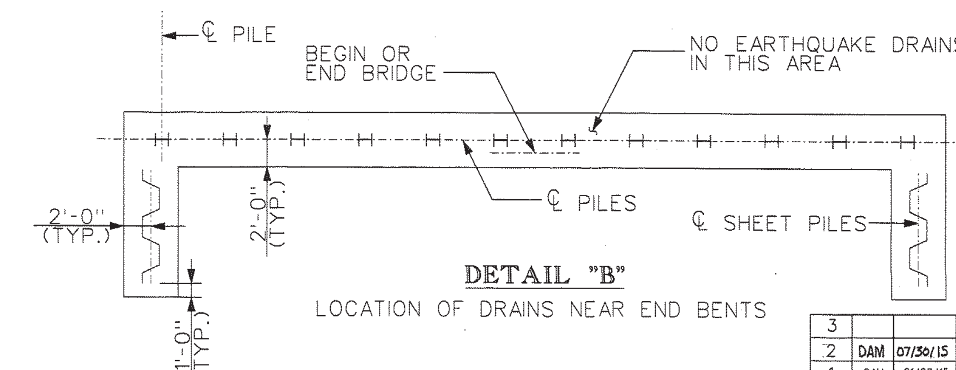


DETAIL "A"
SPACING REQUIREMENTS

LOCATE ALL UTILITIES PRIOR TO INSTALLATION OF EARTHQUAKE DRAINS



ROADWAY CROSS SECTION
(NOT TO SCALE)



DETAIL "B"
LOCATION OF DRAINS NEAR END BENTS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2	DAM	07/30/15	REVISE DETAIL B
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

DESIGN BY:
Terracon
TERRACON CONSULTANTS
1450 5TH STREET WEST
NORTH CHARLESTON, SC 29405

SOUTH CAROLINA TERRACON CONSULTANTS, INC. No. 2220 CERTIFICATE OF AUTHORIZATION

LEAD CONSULTANT
ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

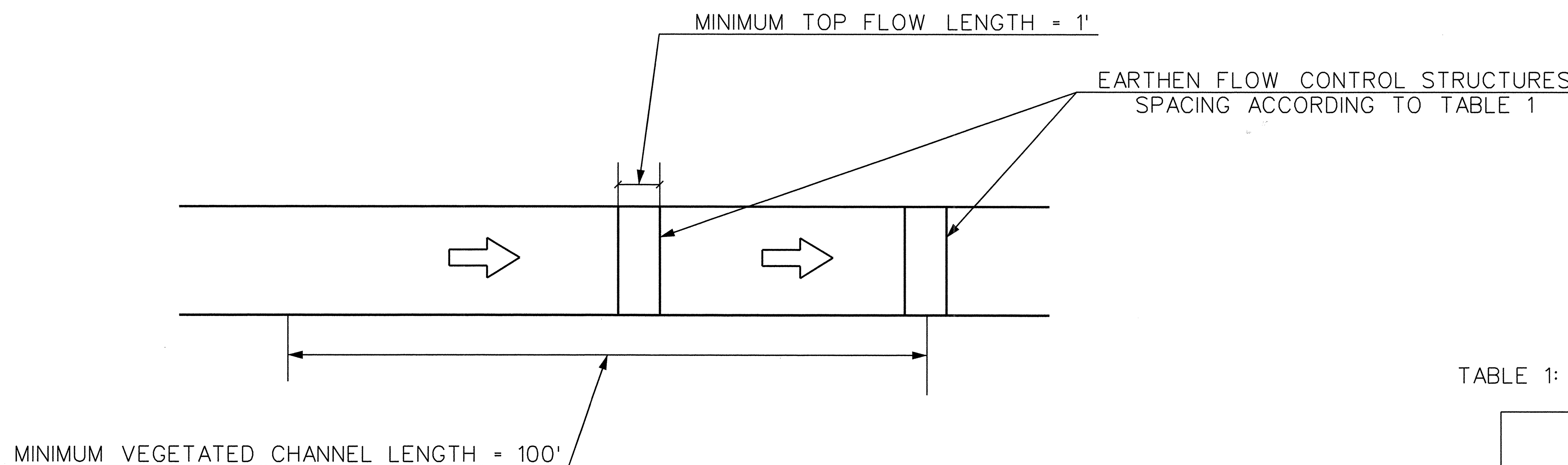
S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

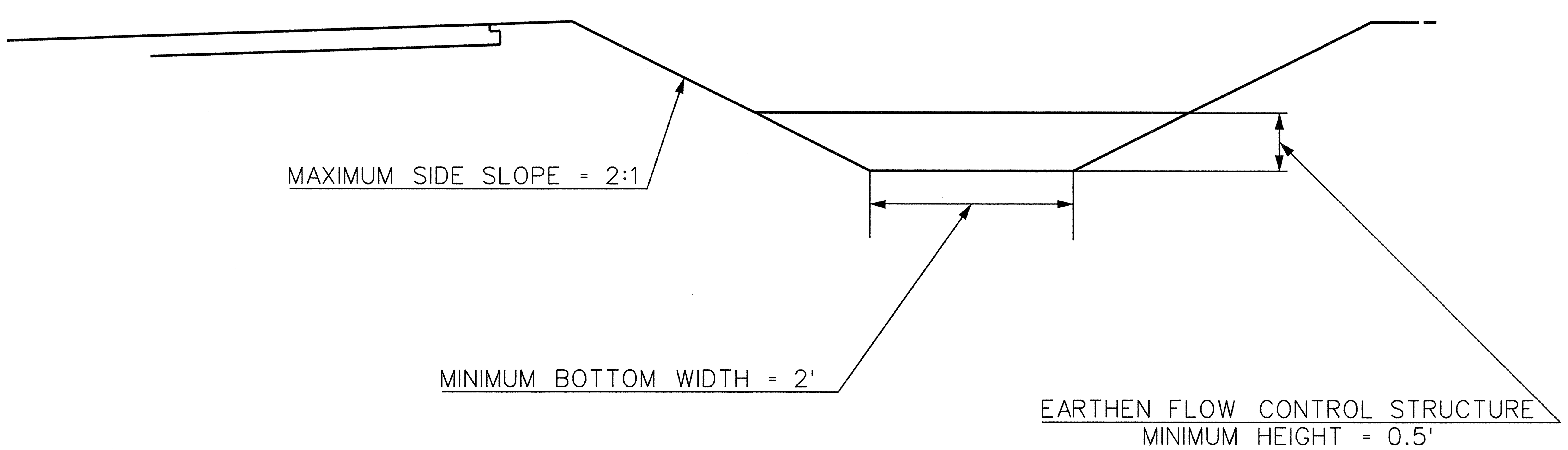
EARTHQUAKE DRAIN DETAILS

SCALE: NONE
S.C. RTE. 41

L:\1315001 - SC 41 over Wando River\Plan\Sht03E_typ.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	3F





NOTES:

1. GRASSED CHANNELS SHALL BE INSTALLED IN ACCORDANCE WITH APPENDIX E OF THE SCDOT WATER QUALITY DESIGN MANUAL.
2. MINIMUM VEGETATED CHANNEL LENGTH OF 100' WITH 0.5' HIGH EARTHEN FLOW CONTROL STRUCTURES WITH A MINIMUM TOP FLOW LENGTH OF 1' INSTALLED ACCORDING TO TABLE 1 TO ACHIEVE WATER QUALITY BENEFITS. IF SITE CONSTRAINTS DO NOT ALLOW 100-FEET, VEGETATED CHANNELS WITH A SLOPE LESS THAN OR EQUAL TO 1.0 % MAY BE 75' LONG WITH A MINIMUM OF FOUR 0.5' HIGH EARTHEN FLOW CONTROL STRUCTURES INSTALLED.
3. THE STANDARD APPLICATION FOR WATER QUALITY APPLIES ONLY TO THE LAST 100 FEET OF GRASSED CHANNELS PRIOR TO OUTFALL AND DOES NOT INCLUDE THE ENTIRE CONVEYANCE INSTALLED.
4. MAXIMUM CHANNEL SLOPE OF 6%.
5. SEE CROSS SECTIONS FOR PROPOSED DITCH GEOMETRY.

TABLE 1: GRASSED CHANNES AND SWALES EARTHEN FLOW CONTROL STRUCTURES REQUIREMENTS

<table>
<tr><th rowspan="2">LANE WIDTH (FT.)</th><th rowspan="2">VEGETATED CHANNEL LONGITUDINAL SLOPE</th><th colspan="2">NUMBER OF EARTHEN FLOW CONTROL STRUCTURES REQUIRED</th></tr>
<tr><th>UPPER STATE</th><th>LOWER STATE</th></tr>
<tr><td rowspan="5">12</td><td>0.5%</td><td colspan="2" rowspan="2">2 PER 100 FT.</td></tr>
<tr><td>1%</td></tr>
<tr><td>2%</td><td colspan="2" rowspan="3">3 PER 100 FT.</td></tr>
<tr><td>4%</td></tr>
<tr><td>6%</td></tr>
<tr><td rowspan="5">24</td><td>0.5%</td><td colspan="2">2 PER 100 FT.</td></tr>
<tr><td>1%</td><td>3 PER 100 FT.</td><td rowspan="2">3 PER 100 FT.</td></tr>
<tr><td>2%</td><td rowspan="3">5 PER 100 FT.</td></tr>
<tr><td>4%</td><td rowspan="2">5 PER 100 FT.</td></tr>
<tr><td>6%</td></tr>
<tr><td rowspan="5">36</td><td>0.5%</td><td colspan="2" rowspan="2">3 PER 100 FT.</td></tr>
<tr><td>1%</td></tr>
<tr><td>2%</td><td rowspan="2">5 PER 100 FT.</td><td rowspan="3">5 PER 100 FT.</td></tr>
<tr><td>4%</td></tr>
<tr><td>6%</td><td>7 PER 100 FT.</td></tr>
</table>

1/8/2015
L:\1315001 - SC 41 over Wando River\Plan\Sh103F_Vegetated Swale Detail.dgn

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________ PLAN SCALE 1" = ____
R/W ________ DATE ________

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

VEGETATED CHANNEL DETAIL

S.C. RTE. 41 DWG. NO. 3F

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	3G

GEOMETRY						UPSTREAM				DOWNSTREAM				FILL HEIGHT		MIN FIELD SPT "N" BELOW INVERT	JOINT PRESSURE (PSI)	SMOOTH WALL OPTIONS					
SYSTEM ID	LINK ID	DIAMETER (IN)	NO. OF BARRELS	PIPE LENGTH (FT)	SLOPE (%)	NODE	NODE DESCRIPTION	NODE STATION	LINK INVERT (FT)	NODE	NODE DESCRIPTION	NODE STATION	LINK INVERT (FT)	MIN (FT)	MAX (FT)			HDPE TYPE	BUILT √	RCP HIGHEST CLASS	BUILT √	SRAP THICKEST GAGE	BUILT √
1	NP-100	30	1	72.00	0.42	DN-100	DUMMY JOINT	240+71	0.50	OP-100	OUTLET PIPE	240+71	0.20	3.60	4.78	7	10	S		III		16ga	
3	NP-300	24	1	24.00	0.30	DN-300	DUMMY JOINT	245+36	4.60	OP-300	OUTLET PIPE	245+12	4.53	0.40	0.61	9	10	S		IV		16ga	
4	NP-400	24	1	124.00	0.36	DN-400	DUMMY JOINT	249+38	6.00	OP-400	OUTLET PIPE	248+21	5.40	0.04	1.34	9	10	S		IV		16ga	
5	NP-500	18	1	124.00	0.20	DN-500	DUMMY JOINT	249+00	3.85	OP-500	OUTLET PIPE	247+74	3.60	0.14	0.74	9	10	S		V		16ga	
6	NP-600	18	1	72.00	0.35	DN-600	DUMMY JOINT	250+70	6.25	OP-600	OUTLET PIPE	250+38	6.00	1.21	1.49	FILL	10	S		IV		16ga	
7	NP-700	18	1	56.00	0.89	MH-700	MANHOLE	252+50	6.50	OP-700	OUTLET PIPE	252+00	6.00	N/A	5.52	9	10	S		III		16ga	
7	NP-701	18	1	156.00	5.77	MH-701	MANHOLE	254+00	17.00	MH-700	MANHOLE	252+50	8.00	4.09	5.91	FILL	10	S		III		16ga	
7	NP-702	18	1	78.00	2.08	CB-700	C.B. TYPE 17	254+02	18.50	MH-701	MANHOLE	254+00	17.00	4.16	6.03	FILL	10	S		III		16ga	
8	NP-800	18	1	40.00	3.75	CB-800	C.B. TYPE 17	275+70	8.25	OP-800	OUTLET PIPE	276+00	7.50	3.30	4.96	9	10	S		III		16ga	
8	NP-801	18	1	72.00	1.04	CB-801	C.B. TYPE 17	275+70	15.00	CB-800	C.B. TYPE 17	275+70	14.25	N/A	8.58	FILL	10	S		III		16ga	
9	NP-900	18	1	42.00	0.36	DN-900	DUMMY JOINT	278+79	7.55	OP-900	OUTLET PIPE	279+21	7.40	0.66	1.23	9	10	S		V		16ga	
10	NP-1000	24	1	132.00	1.89	DN-1000	DUMMY JOINT	281+33	5.00	OP-1000	OUTLET PIPE	281+33	2.50	4.70	4.88	9	10	S		III		16ga	
11	NP-1100	24	1	136.00	0.51	DN-1100	DUMMY JOINT	288+20	2.00	OP-1100	OUTLET PIPE	288+32	1.30	3.35	4.82	9	10	S		III		16ga	
12	NP-1200	18	1	24.00	0.70	DN-1200	DUMMY JOINT	289+21	2.15	OP-1200	OUTLET PIPE	288+97	1.98	1.35	1.52	9	10	S		IV		16ga	
13	NP-1300	18	1	48.00	0.60	DN-1300	DUMMY JOINT	291+50	3.45	OP-1300	OUTLET PIPE	291+00	3.15	0.38	0.68	9	10	S		V		16ga	
14	NP-1400	18	1	24.00	0.77	DN-1400	DUMMY JOINT	300+31	7.22	OP-1400	OUTLET PIPE	300+07	7.04	0.25	0.28	9	10	S		V		16ga	
15	NP-1500	18	1	72.00	0.28	DN-1500	DUMMY JOINT	255+54	4.90	OP-1500	OUTLET PIPE	256+22	4.70	N/A	5.18	6	10	S		III		16ga	

0 25 50 100

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE = N/A

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

DRAINAGE PLAN - PIPE DATA

S.C. RTE. 41 DWG. NO. 3G

1/8/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht03G_Drainage Pipe Data Table.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	4

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
RIGHT-OF-WAY DATA SHEET

TRACT NO.	PROPERTY OWNERS	TAX MAP REFERENCE	TOTAL TRACT ACRES	A OBTAIN: OUTFALL DITCH ACRES	A OBTAIN: LEFT	A OBTAIN: RIGHT	A OBTAIN: TOTAL	REMAINDER LEFT B ACRES	REMAINDER RIGHT B ACRES	DATE ACQUIRED	TYPE OF INSTRUMENT	OUTFALL DITCH PERMISSION YES	SLOPE PERMISSION (YES)	DRAINAGE STRUCTURE PERMISSION (YES)	EROSION CONTROL PERMISSION (YES)	ENTRANCE CONSTRUCTION PERMISSION (YES)	REMARKS
1	JOHN WIELAND HOMES & NEIGHBORHOODS, INC.	594-05-00-231	41.020														DB D567, PG 238 PB EF, PG 790
2	JAMES N. DEIERLEIN, JR. ETAL	540-00-00-019	180.100		3676 S.F. (0.084 AC)		3676 S.F. (0.084 AC)	180.016									DB 633 PG 379 WETLAND OBTAIN - 0.075 Ac. PLAT AP PG 77
3	JOHN WIELAND HOMES & NEIGHBORHOODS, INC.	594-05-00-233	93.710											YES			DB D567, PG 238 PB EG, PG 593
4	WANDO E LLC	269-00-00-036	13.360			5995 S.F. (0.138 AC)	5995 S.F. (0.138 AC)		13.222								DB 7426 PG 311 WETLAND OBTAIN - 0.089 Ac. CAB Q/157B
5	OMITTED	N/A	N/A														
6	DETYENS SHIPYARD INC.	269-00-00-034	51.400		35275 S.F. (0.810 AC)		35275 S.F. (0.810 AC)	50.590							YES		DB A668, PG 127 WETLAND OBTAIN - 0.074 Ac. CAB E/9
7	WANDO E LLC	269-00-00-035	10.327			32853 S.F. (0.754 AC)	32853 S.F. (0.754 AC)		9.573							YES	DB 7426 PG 311 WETLAND OBTAIN - 0.260 Ac. CAB Q/157B
8	ATLANTIS MARINE INC.	269-00-00-037	4.383			55176 S.F. (1.267 AC)	55176 S.F. (1.267 AC)		3.116						YES		DB 2865 PG 260 WETLAND OBTAIN - 0.492 Ac. CAB P/207A
9	OIL SHIP INC.	269-00-00-038	0.630			25153 S.F. (0.577 AC)	25153 S.F. (0.577 AC)		(0.053 AC) (2290.21 SF)								DB A892 PG 228 CAB I/236
10	PASTIME AMUSEMENT CO., ETAL	263-00-04-001	70.370			102748 S.F. (2.360 AC)	102748 S.F. (2.360 AC)		68.010								DB 6339, PG 176 WETLAND OBTAIN - 0.454 Ac. CABM/263H
11	CJB INVESTMENTS LLC	263-00-03-020	17.500										YES		YES		DB 4754 PG 265 CAB R/43 EC PERM. FOR RIP RAP @ STA. 288+34.46 LT
12	LE BREW, LLC	263-00-03-023	0.520														DB 1048 PG 1 CAB M/57H
13	ELIZABETH R. GASKINS	263-00-03-022	1.230														DB 935 PG 137 CAB H/312
14	PAB WANDO INVESTMENTS, LLC	263-00-03-021	0.720														DB 576 PG 276 CAB D/5
15	CJB INVESTMENTS LLC	263-00-03-024	2.000			46823 S.F. (1.075 AC)	46823 S.F. (1.075 AC)		0.925								DB 4644, PG 46 WETLAND OBTAIN - 0.004 Ac. CAB O/117
16	CJB INVESTMENTS LLC	263-00-03-027	8.660			7554 S.F. (0.173 AC)	7554 S.F. (0.173 AC)		8.487								DB 4479, PG 1 WETLAND OBTAIN - 0.002 Ac. CAB E/33

NOTES:

A TOTAL OBTAIN INCLUDES HIGHLAND, MARSH AND OUTFALL DITCHES. OBTAINS WILL BE SHOWN IN SQUARE FEET AND ACRES, ACRES WILL BE SHOWN IN PARENTHESES UNDER SQUARE FEET. IN RUAL AREAS OBTAINS MAY BE SHOWN IN ACRES ONLY. OUTFALL DITCHES WILL BE SHOWN IN ACRES ONLY.

B SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRE.

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	DAM	01/08/15	RELEASED FOR CONSTRUCTION
2	DAM	08/28/14	REV. NEW R/W TRACTS 7 & 8, ADD DRAINAGE STRUCTURE PERMISSION TRACT 3, REMOVED NEW ROW TRACT 11
1	DAM	07/11/14	REVISE TRACT 8 TOTAL AREA, OBTAIN, AND REMAINDER

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE = N/A

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

RIGHT OF WAY DATA SHEET

S.C. RTE. 41 DWG. NO. 4

1/8/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht04_ROW Data.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	4A

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5	DAM	05/25/17	ADDED CELL TOWER DRIVE
4	DAM	09/30/16	ADDED TRACT 8 DRIVE
3	DAM	01/08/15	RELEASED FOR CONSTRUCTION
2	DAM	08/28/14	REVISE NEW R/W TRACTS 7 & 8
1	DAM	07/11/14	REVISE TRACT 8 DUE TO REVISED PLAT

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 200'

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
5/25/17

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

PROPERTY STRIP MAP

S.C. RTE. 41 DWG. NO. 4A

5/25/2017
L:\1315001 - SC 41 over Wando River\Plan\Sht04A_Prop Strip Map.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	4B

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	08/25/14	REMOVED NEW ROW TRACT 11

TOPO. ______ DATE ______
DWG. ______ DATE ______
R/W ______ DATE ______

PLAN SCALE 1" =200'

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

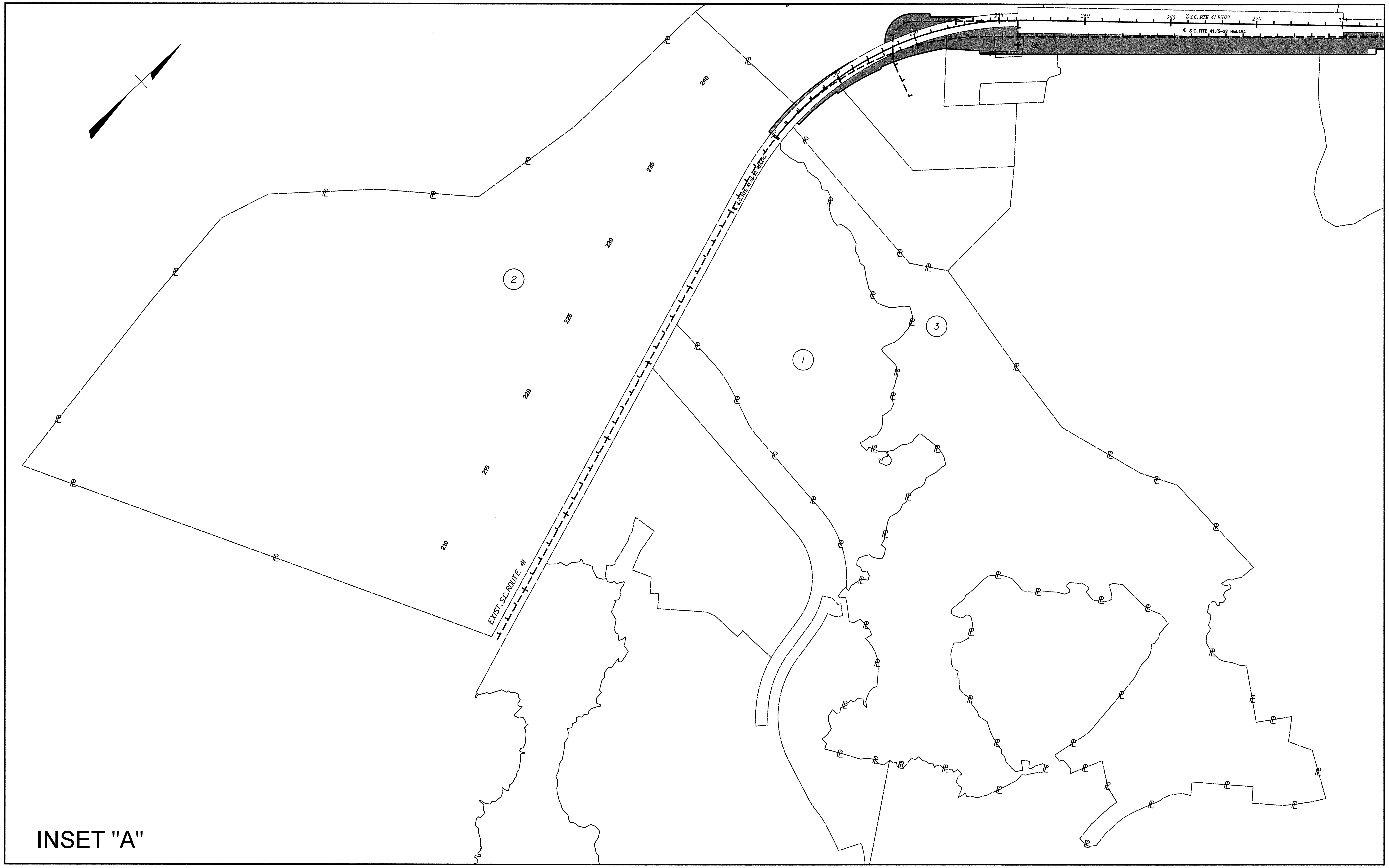
S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

PROPERTY STRIP MAP

S.C. RTE. 41 DWG. NO. 4B

1/8/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht04B_Prop Strip Map.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	4C



INSET "A"

0 150 300 600

ICA Engineering
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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	07/11/14	REVISED TRACT 8 DUE TO REVISED PLAT

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 300'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

PROPERTY STRIP MAP

S.C. RTE. 41 DWG. NO. 4C

1/8/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht04C_Prop Strip Map.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	5A

CURVE DATA

S.C. RTE. 41 EXIST. (CURVE 1)
P.I. = 247+73.43
Δ = 62° 20' 08" (RT)
D = 3° 10' 20"
T = 1,092.42'
L = 1,964.96'
E = 304.68'
R = 1,806.09'

S.C. RTE. 41 EXIST. (CURVE 2)
P.I. = 10+71.05
Δ = 40° 36' 55" (LT)
D = 1° 58' 53"
T = 1,070.04'
L = 2,049.71'
E = 191.64'
R = 2,891.52'

ROAD S-33 EXIST. (CURVE 1)
P.I. = 28+63.46
Δ = 131° 32' 18" (LT)
D = 4° 26' 45"
T = 2,863.46'
L = 2,958.66'
E = 1,851.37'
R = 1,288.74'

S.C. RTE. 41/S-33 RELOC. (CURVE 1)
P.I. = 238+46.62
Δ = 9° 54' 32" (RT)
D = 3° 10' 20"
T = 156.57'
L = 312.35'
E = 6.77'
R = 1,806.09'

S.C. RTE. 41/S-33 RELOC. (CURVE 2)
P.I. = 247+49.27
Δ = 51° 27' 14" (RT)
D = 3° 41' 47"
T = 746.86'
L = 1,391.96'
E = 170.55'
R = 1,550.00'
D.S. = 45 MPH
eMAX = 0.04 TABLE
e = 0.0325 FT/FT
P.C. - LG% = 0.50%
P.T. - LG% = 0.50%
(FOR 24' PVMT)

S.C. RTE. 41/S-33 RELOC. (CURVE 3)
P.I. = 291+76.49
Δ = 71° 00' 42" (LT)
D = 4° 11' 51"
T = 973.86'
L = 1,691.77'
E = 311.79'
R = 1,365.00'
D.S. = 45 MPH
eMAX = 0.04 TABLE
e = 0.034 FT/FT
P.C. - LG% = 0.50%
P.T. - LG% = 0.50%

S.C. RTE. 41/S-33 RELOC. (CURVE 4)
P.I. = 306+31.78
Δ = 59° 33' 14" (LT)
D = 4° 26' 45"
T = 737.38'
L = 1,339.53'
E = 196.04'
R = 1,288.74'
D.S. = 45 MPH
eMAX = 0.04 TABLE
e = 0.035 FT/FT
P.C. - LG% = 0.424%
P.T. - LG% = 0.424%

ACCESS ROAD 1 (CURVE 1)
P.I. = 11+81.32
Δ = 89° 39' 03" (RT)
D = 49° 49' 21"
T = 114.30'
L = 179.94'
E = 47.14'
R = 115.00'
D.S. = NA
eMAX = 0.04 TABLE
e = RC
P.C. - LG% = NA
P.T. - LG% = NA

ACCESS ROAD 1 (CURVE 1)
P.I. = 21+82.16
Δ = 9° 17' 14" (LT)
D = 6° 01' 52"
T = 77.16'
L = 153.99'
E = 3.13'
R = 950.00'
D.S. = NA
eMAX = 0.04 TABLE
e = RC
P.C. - LG% = NA
P.T. - LG% = NA

TRACT 7 DRIVE (CURVE 1)
P.I. = 10+77.47
Δ = 22° 38' 28" (LT)
D = 49° 49' 21"
T = 23.02'
L = 45.44'
E = 2.28'
R = 115.00'
D.S. = NA
eMAX = 0.04 TABLE
e = NC
P.C. - LG% = NA
P.T. - LG% = NA

S.C. RTE. 41 N RELOC. (CURVE 1)
P.I. = 13+06.50
Δ = 53° 17' 47" (LT)
D = 13° 28' 53"
T = 213.27'
L = 395.33'
E = 50.51'
R = 425.00'
D.S. = 35 MPH
eMAX = 0.04 TABLE
e = 0.040 FT/FT
P.C. - LG% = 0.62%
P.T. - LG% = 0.50%

S.C. RTE. 41 N RELOC. (CURVE 2)
P.I. = 17+98.21
Δ = 12° 13' 29" (LT)
D = 1° 58' 53"
T = 309.64'
L = 616.94'
E = 16.53'
R = 2,891.52'

TRACT 10 DRIVE (CURVE 1)
P.I. = 10+43.84
Δ = 4° 21' 22" (LT)
D = 28° 38' 52"
T = 7.61'
L = 15.21'
E = 0.14'
R = 200.00'

TRACT 10 DRIVE (CURVE 2)
P.I. = 11+13.55
Δ = 5° 10' 56" (LT)
D = 57° 17' 45"
T = 4.53'
L = 9.04'
E = 0.10'
R = 100.00'

TRACT 10 DRIVE (CURVE 3)
P.I. = 11+72.77
Δ = 17° 04' 47" (RT)
D = 28° 38' 52"
T = 30.03'
L = 59.62'
E = 2.24'
R = 200.00'

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

ALIGNMENT CONTROL POINTS

CONTROL POINTS - S.C. RTE. 41 EXIST.

	NORTHING (Y)	EASTING (X)
POT = 206+56.80	393,557.277	2,360,255.898
PC = 236+81.01	396,431.436	2,359,315.139
PI = 247+73.43	397,469.657	2,358,975.312
PT = 256+45.97	398,252.674	2,359,737.068
POT = 282+72.89	400,135.577	2,361,568.845
POT = 00+00.00	400,135.577	2,361,568.845
PC = 00+01.00	400,136.293	2,361,569.543
PI = 10+71.05	400,903.270	2,362,315.694
PT = 20+50.71	401,971.207	2,362,382.811
POT = 49+51.81	404,866.589	2,362,564.778

CONTROL POINTS - ROAD S-33 EXIST.

	NORTHING (Y)	EASTING (X)
PC = 00+00.00	400,136.293	2,361,569.543
PI = 28+63.46	402,188.741	2,363,566.262
PT = 29+58.67	402,322.283	2,360,705.913
POT = 45+97.63	402,398.719	2,359,068.727

CONTROL POINTS - S.C. RTE. 41 / S-33 RELOC.

	NORTHING (Y)	EASTING (X)
POT = 206+65.85	393,557.277	2,360,255.898
PC = 236+90.05	396,431.436	2,359,315.139
PI = 238+46.62	396,580.235	2,359,266.434
PT = 240+02.41	396,735.196	2,359,244.062
PC = 240+02.41	396,735.196	2,359,244.062
PI = 247+49.27	397,474.393	2,359,137.343
PT = 253+94.36	398,018.486	2,359,648.972
POT = 262+77.77	398,662.053	2,360,254.140
PC = 282+02.64	400,064.332	2,361,572.748
PI = 291+76.49	400,773.792	2,362,239.878
PT = 298+94.40	401,635.460	2,361,786.089
PC = 298+94.40	401,635.460	2,361,786.089
PI = 306+31.78	402,287.894	2,361,442.491
PT = 312+33.94	402,322.283	2,360,705.913
POT = 328+72.90	402,398.719	2,359,068.727

CONTROL POINTS - TRACT 8 DRIVE

	NORTHING (Y)	EASTING (X)
POT = 10+00.00	398,000.104	2,359,749.737
POT = 11+38.25	398,100.820	2,359,844.443

CONTROL POINTS - CELL TOWER DRIVE

	NORTHING (Y)	EASTING (X)
POT = 10+00.00	397,838.327	2,359,358.241
POT = 10+75.16	397,899.718	2,359,314.881

CONTROL POINTS - ACCESS ROAD 1

	NORTHING (Y)	EASTING (X)
POT = 10+00.00	397,565.203	2,359,352.606
PC = 10+67.02	397,611.011	2,359,303.682
PI = 11+81.32	397,689.134	2,359,220.246
PT = 12+46.96	397,773.045	2,359,297.858
POT = 18+60.20	398,223.236	2,359,714.259
POT = 20+36.90	398,102.190	2,359,842.986
POT = 20+38.90	398,100.820	2,359,844.443

CONTROL POINTS - TRACT 7 DRIVE

	NORTHING (Y)	EASTING (X)
POT = 10+29.23	397,565.203	2,359,352.606
PC = 10+54.45	397,548.620	2,359,371.604
PI = 10+77.47	397,533.481	2,359,388.948
PT = 10+99.90	397,526.186	2,359,410.784
POT = 13+05.68	397,460.974	2,359,605.963

CONTROL POINTS - ACCESS ROAD 2

	NORTHING (Y)	EASTING (X)
POT = 10+00.00	399,843.858	2,361,365.430
POT = 10+95.13	399,909.025	2,361,296.128

CONTROL POINTS - S.C. RTE. 41 N RELOC.

	NORTHING (Y)	EASTING (X)
POT = 10+00.00	401,049.827	2,361,934.466
PC = 10+93.23	401,083.060	2,362,021.572
PI = 13+06.50	401,159.084	2,362,220.833
PT = 14+88.56	401,364.277	2,362,278.976
PC = 14+88.56	401,364.277	2,362,278.976
PI = 17+98.21	401,662.191	2,362,363.392
PT = 21+05.50	401,971.224	2,362,382.812
POT = 50+06.58	404,866.589	2,362,564.778

CONTROL POINTS - TRACT 10 DRIVE

	NORTHING (Y)	EASTING (X)
POT = 10+00.00	399,878.286	2,361,397.804
PC = 10+36.23	399,861.117	2,361,429.708
PI = 10+43.84	399,857.512	2,361,436.406
PT = 10+51.44	399,854.427	2,361,443.358
PC = 11+09.02	399,831.067	2,361,495.996
PI = 11+13.55	399,829.231	2,361,500.132
PT = 11+18.07	399,827.776	2,361,504.418
PC = 11+42.73	399,819.849	2,361,527.774
PI = 11+72.77	399,810.196	2,361,556.213
PT = 12+02.35	399,792.616	2,361,580.562
POT = 12+03.74	399,791.807	2,361,581.682

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
ICA ENGINEERING INC.
No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
5/25/17

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	DAM	05/25/17	ADDED CELL TOWER DRIVE DATA
2	DAM	09/30/16	ADDED TRACT 8 & 10 DRIVE DATA
2	DAM	09/30/16	REVISED ACCESS ROAD 1 CONTROL POINTS
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = N/A

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

REFERENCE DATA SHEET

S.C. RTE. 41 DWG. NO. 5A

5/25/2017
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	5B

PROJECT CONTROL POINTS

	NORTHING (Y)	EASTING (X)	ELEVATION (Z)
CP-101	396541.7209	2359256.5292	6.53
APPROX. 26' LEFT EXIST. ℄ S.C. RTE. 41 STA. 238+02 (#5 REBAR & CAP)			
CP-105	398154.6022	2359789.0847	8.04
APPROX. 105' RIGHT EXIST. ℄ S.C. RTE. 41 STA. 256+10 (MAG NAIL)			
CP-106	399598.0903	2361252.1882	—
APPROX. 148' RIGHT EXIST. ℄ S.C. RTE. 41 STA. 276+67 (#5 REBAR & CAP) VERTICAL IS OUT OF TOLERANCE. HORIZONTAL IS GOOD.			
CP-100	400480.5248	2361836.7753	7.02
APPROX. 15' LEFT EXIST. ℄ ROAD S-33 STA. 4+38 (MAG NAIL)			
CP-107	401824.8714	2362345.3850	7.59
APPROX. 24' LEFT EXIST. ℄ S.C. RTE. 41 STA. 19+01 (MAG NAIL)			
CP-108	402975.1704	2362474.7574	12.02
APPROX. 29' RIGHT EXIST. ℄ S.C. RTE. 41 STA. 30+58 (MAG NAIL)			
CP-112	—	—	—
UNABLE TO LOCATE			
CP-113	402326.0255	2360839.0467	12.81
APPROX. 17' RIGHT EXIST. ℄ ROAD S-33 STA. 28+27 (#5 REBAR & CAP)			
CP-109	402400.4673	2359553.8252	13.16
APPROX. 24' RIGHT EXIST. ℄ ROAD S-33 STA. 41+13 (#5 REBAR & CAP)			
CP-110	402804.7511	2359468.9561	15.25
APPROX. 424' RIGHT EXIST. ℄ ROAD S-33 STA. 42+17 (#5 REBAR & CAP)			
BM-7501	396314.2167	2359457.6597	7.25
APPROX. 99' RIGHT EXIST. ℄ S.C. RTE. 41 STA. 235+25 (#5 REBAR & CAP)			
BM-7502	—	—	7.48
APPROX. 113' RIGHT EXIST. ℄ S.C. RTE. 41 STA. 246+04 (#5 REB.&CAP). HORIZONTAL IS OUT OF TOLERANCE; VERTICAL IS GOOD			
BM-7503	—	—	—
UNABLE TO LOCATE			
BM-7504	—	—	—
UNABLE TO LOCATE			
BM-7505	—	—	—
UNABLE TO LOCATE			
BM-7506	—	—	7.06
APPROX. 109' LEFT EXIST. ℄ S.C. RTE. 41 STA. 12+45 (#5 REB.&CAP). HORIZONTAL IS OUT OF TOLERANCE; VERTICAL IS GOOD			
BM-7507	402158.2161	2362296.1393	9.16
APPROX. 98' LEFT EXIST. ℄ S.C. RTE. 41 STA. 22+32 (#5 REBAR & CAP)			
BM-7508	401847.6922	2361806.2776	—
APPROX. 128' RIGHT EXIST. ℄ ROAD S-33 STA. 17+81 (#5 REBAR & CAP) VERTICAL IS OUT OF TOLERANCE. HORIZONTAL IS GOOD.			
BM-7509	402403.8232	2360966.2872	14.40
APPROX. 117' RIGHT EXIST. ℄ ROAD S-33 STA. 27+22 (#5 REBAR & CAP)			
BM-7510	402263.8555	2359693.8027	12.73
APPROX. 105' LEFT EXIST. ℄ ROAD S-33 STA. 39+67 (#5 REBAR & CAP)			
BM-7512	402965.2684	2362546.8597	11.22
APPROX. 101' RIGHT EXIST. ℄ S.C. RTE. 41 STA. 30+53 (#5 REBAR & CAP)			

GENERAL INFORMATION

CONTROL SURVEY SUMMARY

VERTICAL - NORTH AMERICAN VERTICAL DATUM - 1988 (NAVD88)

HORIZONTAL - NORTH AMERICAN DATUM - 1983 (NAD 83)

ORIENTATION - GRID NORTH

COORDINATES - SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM

PROJECT SCALE FACTOR - LOCALIZED

USE THESE CONTROL POINTS ONLY. DO NOT BRING CONTROL IN FROM OUTSIDE SOURCES.

1/8/2015
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ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = N/A

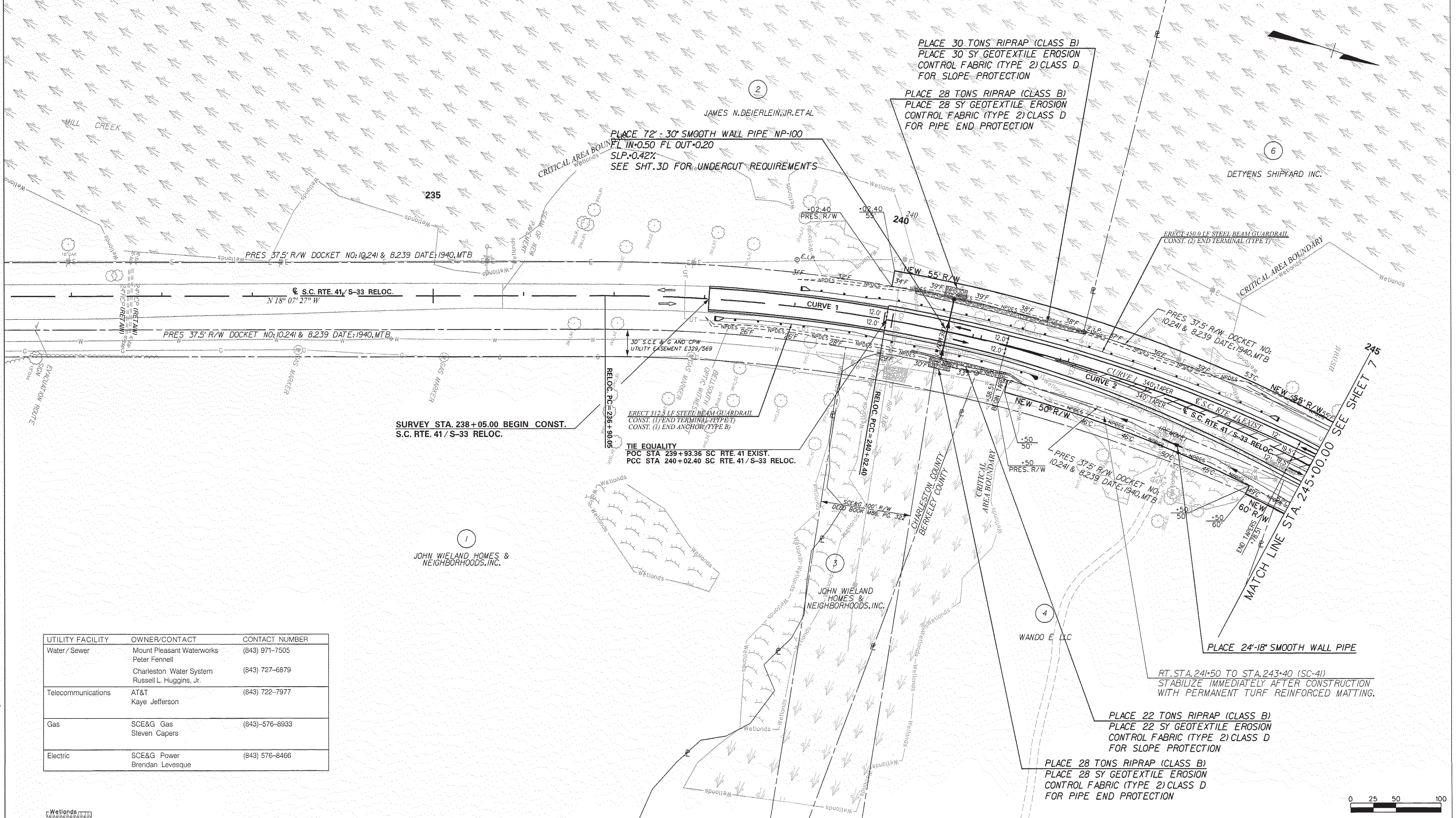
SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

REFERENCE DATA SHEET

S.C. RTE. 41 DWG. NO. 5B

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	6



UTILITY FACILITY	OWNER/CONTACT	CONTACT NUMBER
Water/Sewer	Mount Pleasant Waterworks Peter Fennell	(843) 971-7505
	Charleston Water System Russell L. Huggins, Jr.	(843) 727-6879
Telecommunications	AT&T Kaye Jefferson	(843) 722-7977
Gas	SCE&G Gas Steven Capers	(843)-576-8933
Electric	SCE&G Power Brendan Levesque	(843) 576-8466

CRITICAL AREA WETLANDS

FRESHWATER WETLANDS

REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 7/30/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2	DAM	07/30/15	REVISE BEGIN CONSTRUCTION LOCATION
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

S.C. ROUTE 41
STA. 231+00.00 TO STA. 245+00.00

S.C. RTE. 41 DWG. NO. 6

7/30/2015
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	7

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

SEE SHEET 7A FOR GRADING DETAILS UNDER BRIDGE. STA.254+00 TO 256+25

NOTE:
ERECT 80LF OF 48" CHAIN LINK FENCE 6FT RT OF ACCESS ROAD 1 TRAVEL LANE STA.19+10 TO 19+90

TIE BRIDGE DRAINAGE SYSTEM TO BRIDGE END DRAINAGE SYSTEM ON BOTH SIDES OF THE BRIDGE. ALL BRIDGE SURFACE RUNOFF TO BE COLLECTED IN DRAINAGE SYSTEM. SEE BRIDGE PLANS FOR ADDITIONAL DETAILS.

PLACE BITUMINOUS CURB FROM RT. STA. 252+75 TO PROPOSED TYPE 17 CB AT RT. STA. 254+02. REFER TO SCDOT STD. DWG. 803-105-00. PLACE METAL INTAKE ASSEMBLY AT RT. STA. 252+90 AND 253+40. TIE SLOPE DRAIN TO PROPOSED TYPE 17 CB.

CRITICAL AREA WETLANDS
FRESHWATER WETLANDS
REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
10			
9			
8	DAM	05/25/17	ADDED CELL TOWER DRIVE ALIGNMENT
7	DAM	04/24/17	REVISED TRACT 7 GUARDRAIL AND DRAINAGE LEFT
6	DAM	03/24/17	REVISED TRACT 7 DRIVE PROFILE
5	DAM	09/30/16	ADDED TRACT 8 DRIVE ALIGNMENT
5	DAM	09/30/16	ADDED LEFT TURN LANE FROM SC RTE. 41 RELOC ON TO TRACT 7 DRIVE
5	DAM	09/30/16	REVISE NEW R/W TRACT 7 & 8
4	DAM	12/18/15	REVISE ACCESS RD 1/TRACT 8 DRIVE, REVISE NEW R/W TRACT 8
3	DAM	01/08/15	RELEASED FOR CONSTRUCTION
2	DAM	08/28/14	REVISED NEW R/W TRACTS 7 & 8
1	DAM	07/11/14	REVISED TRACT 8 DUE TO REVISED PLAT

TOPO. ______ DATE ______
DWG. ______ DATE ______
R/W ______ DATE ______
PLAN SCALE 1" = 50'

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
5/25/17

0 25 50 100

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

S.C. ROUTE 41
STA. 245+00.00 TO STA. 260+00.00

S.C. RTE. 41 DWG. NO. 7

5/25/2017
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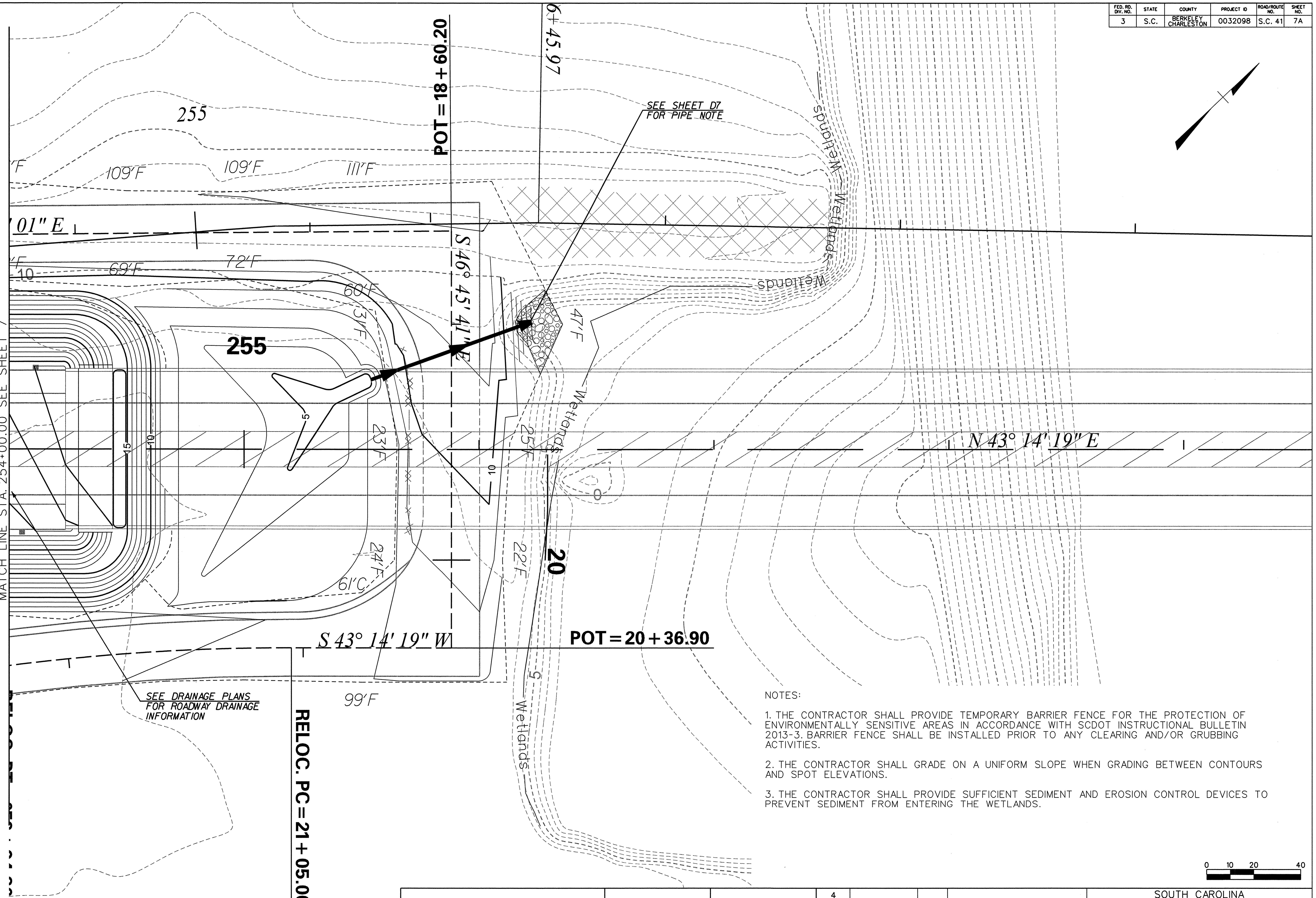
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	7A



NOTES:

1. THE CONTRACTOR SHALL PROVIDE TEMPORARY BARRIER FENCE FOR THE PROTECTION OF ENVIRONMENTALLY SENSITIVE AREAS IN ACCORDANCE WITH SCDOT INSTRUCTIONAL BULLETIN 2013-3. BARRIER FENCE SHALL BE INSTALLED PRIOR TO ANY CLEARING AND/OR GRUBBING ACTIVITIES.

2. THE CONTRACTOR SHALL GRADE ON A UNIFORM SLOPE WHEN GRADING BETWEEN CONTOURS AND SPOT ELEVATIONS.

3. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SEDIMENT AND EROSION CONTROL DEVICES TO PREVENT SEDIMENT FROM ENTERING THE WETLANDS.

0 10 20 40

------- EXISTING CONTOUR
——— PROPOSED MINOR CONTOUR (1')
——5—— PROPOSED MAJOR CONTOUR (5')

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ______ DATE ______
DWG. ______ DATE ______
R/W ______ DATE ______

PLAN SCALE 1" = 20'

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

GRADING DETAIL

STA. 254+00 TO STA. 256+25

S.C. RTE. 41 DWG. NO. 7A

1/8/2015
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	8

CRITICAL AREA WETLANDS

FRESHWATER WETLANDS

REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

S.C. ROUTE 41
STA. 260+00.00 TO STA. 275+00.00

S.C. RTE. 41 — DWG. NO. 8

1/8/2015
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	9

CRITICAL AREA WETLANDS

FRESHWATER WETLANDS

REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT

TIE BRIDGE DRAINAGE SYSTEM TO BRIDGE END DRAINAGE SYSTEM ON BOTH SIDES OF THE BRIDGE. ALL BRIDGE SURFACE RUNOFF TO BE COLLECTED IN DRAINAGE SYSTEM. SEE BRIDGE PLANS FOR ADDITIONAL DETAILS.

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID C. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	08/28/14	REMOVED NEW ROW TRACT 11

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

S.C. ROUTE 41
STA. 275+00.00 TO STA. 290+00.00

S.C. RTE. 41 DWG. NO. 9

1/8/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht09_Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	10

Wetlands	CRITICAL AREA WETLANDS
Wetlands	FRESHWATER WETLANDS
	REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	08/28/14	REVISED DITCH LT. 290+00-300+00

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

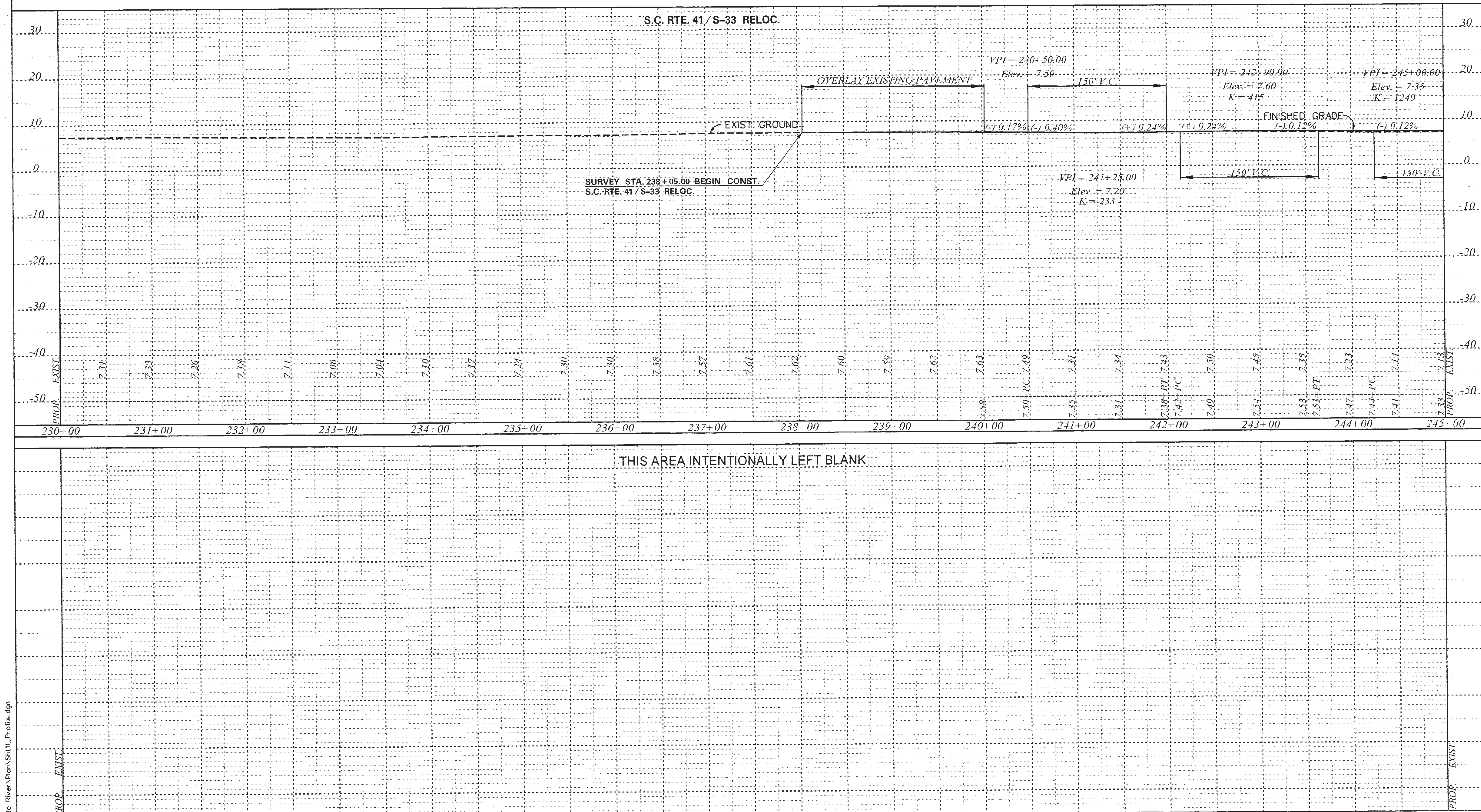
S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

S.C. ROUTE 41
STA. 290+00.00 TO STA. 300+60.00

S.C. RTE. 41 DWG. NO. 10

1/8/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht10_Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	11



7/30/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht11_Profile.dgn

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
7/30/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2	DAM	07/30/15	REVISED BEGIN CONSTRUCTION LOCATION
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

SCALE
1" = 50' HORIZ.
1" = 10' VERT.

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

PROFILE
S.C. RTE. 41 / S-33 RELOC. STA. 240+02.40
TO STA. 245+00

S.C. RTE. 41 DWG. NO. 11

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	12

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SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ______ DATE ______
DWG. ______ DATE ______
R/W ______ DATE ______

SCALE
1" = 50' HORIZ.
1" = 10' VERT.

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

PROFILE
S.C. RTE. 41 / S-33 RELOC. STA. 245+00
TO STA. 260+00

S.C. RTE. 41 DWG. NO. 12

1/8/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht12_Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	13

ICA Engineering
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SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

SCALE
1" = 50' HORIZ.
1" = 10' VERT.

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

PROFILE
S.C. RTE. 41 / S-33 RELOC. STA. 260+00
TO STA. 275+00

S.C. RTE. 41 DWG. NO. 13

1/8/2015
L:\1315001 - SC 41 over Wando River\Plan\Sht13_Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	14

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

11/2/2017
L:\1315001 - SC 41 over Wando River\Plan\Sht14_Profile.dgn

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
FLORENCE & HUTCHESON, INC.
No. 000643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
11/2/17

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3	DAM	11/02/17	REVISED PROFILE STA. 297+75 TO STA. 300+60
2	DAM	08/01/17	REVISED PROFILE STA. 276+00 TO STA. 291+50
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

SCALE
1" = 50' HORIZ.
1" = 10' VERT.

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

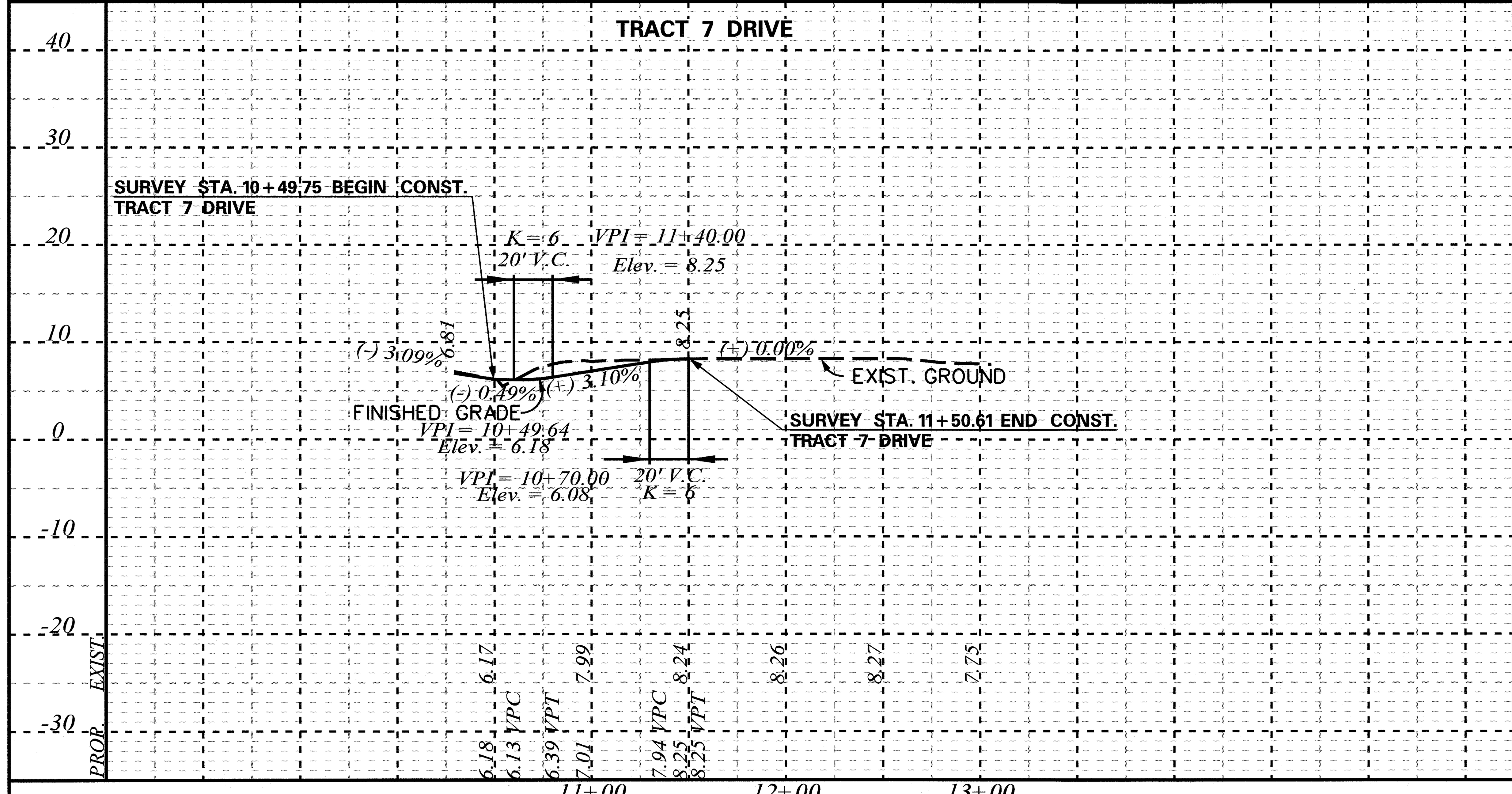
S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

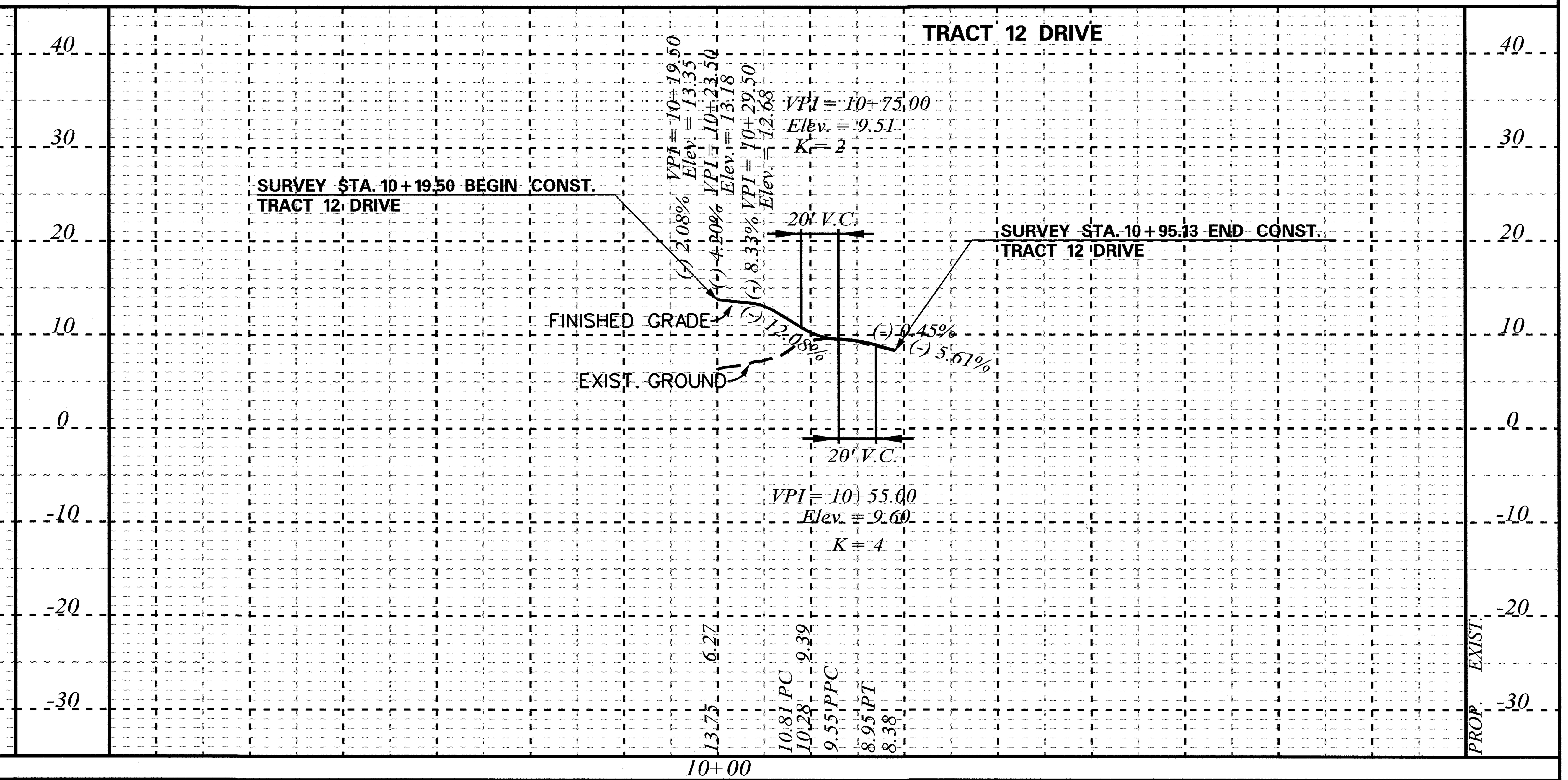
PROFILE
S.C. RTE. 41 / S-33 RELOC. STA. 275+00
TO STA. 300+60

S.C. RTE. 41 DWG. NO. 14

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	15





ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY

3/24/17

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3	DAM	03/24/17	REVISED TRACT 7 DRIVE PROFILE
2	DAM	09/30/16	REVISED ACCESS ROAD PROFILE
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

SCALE
1" = 50' HORIZ.
1" = 10' VERT.

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

PROFILE

ACCESS ROAD 1 STA. 10+33.48 TO STA. 21+75.15
TRACT 7 DRIVE STA. 10+49.75 TO STA. 11+50.61
TRACT 12 DRIVE STA. 10+19.50 TO STA. 10+95.13

S.C. RTE. 41 DWG. NO. 15

3/24/2017
L:\1315001 - SC 41 over Wando River\Plan\Sht15_Profile.dgn

CONSTRUCTION CHANGE SHEET PROVIDED AFTER LETTING

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	16

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501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
5/25/17

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3	DAM	05/25/17	ADDED CELL TOWER DRIVE PROFILE
2	DAM	09/30/16	ADDED TRACT 8 & 10 DRIVE PROFILES
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

SCALE
1" = 50' HORIZ.
1" = 10' VERT.

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

PROFILE
S.C. RTE. 41 N. RELOC. STA. 10+28.94 TO STA. 14+88.56
TRACT 8 DRIVE STA. 10+00.00 TO STA. 11+38.25
TRACT 10 DRIVE STA. 10+20.18 TO STA. 10+95.00
CELL TOWER DRIVE STA. 10+12.95 TO STA. 10+73.00

S.C. RTE. 41 DWG. NO. 16

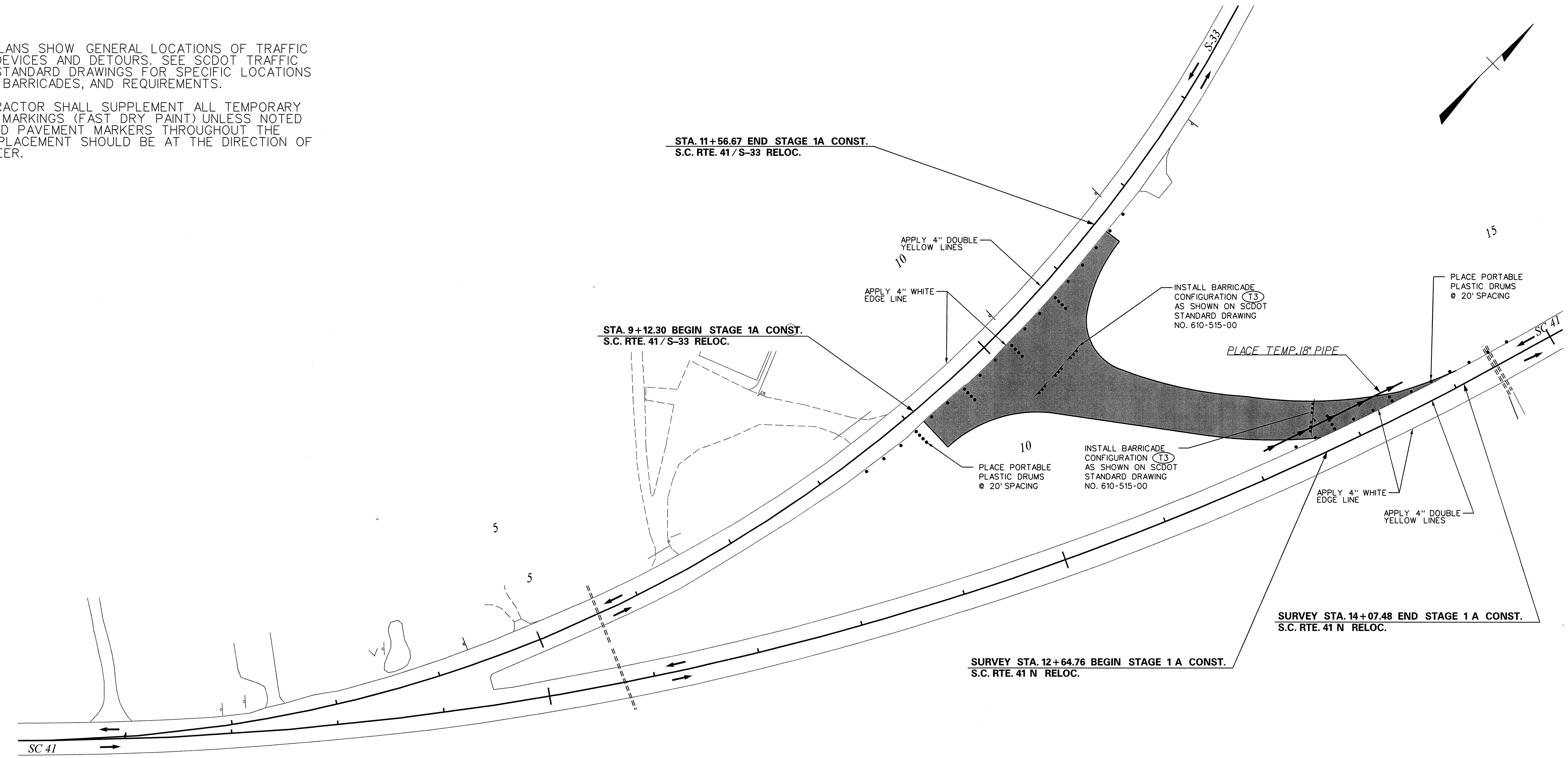
5/25/2017
L:\1315001 - SC 41 over Wando River\Plan\Sht16_Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	TC1

NOTE:

STAGING PLANS SHOW GENERAL LOCATIONS OF TRAFFIC CONTROL DEVICES AND DETOURS. SEE SCDOT TRAFFIC CONTROL STANDARD DRAWINGS FOR SPECIFIC LOCATIONS OF DRUMS, BARRICADES, AND REQUIREMENTS.

THE CONTRACTOR SHALL SUPPLEMENT ALL TEMPORARY PAVEMENT MARKINGS (FAST DRY PAINT) UNLESS NOTED WITH RAISED PAVEMENT MARKERS THROUGHOUT THE PROJECT. PLACEMENT SHOULD BE AT THE DIRECTION OF THE ENGINEER.



0 25 50 100

LEGEND

- PORTABLE PLASTIC DRUMS
- TEMPORARY BARRICADE
- PORTABLE TERMINAL IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- WORK AREA

1/8/2015
L:\1315001 - SC 41 over Wando River\Traffic Control\TC 01_stage 1A.dgn

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER
TRAFFIC CONTROL PLANS
STAGE 1A

S.C. RTE. 41 DWG. NO. TC1

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	TC2

NOTE:

STAGING PLANS SHOW GENERAL LOCATIONS OF TRAFFIC CONTROL DEVICES AND DETOURS. SEE SCDOT TRAFFIC CONTROL STANDARD DRAWINGS FOR SPECIFIC LOCATIONS OF DRUMS, BARRICADES, AND REQUIREMENTS.

THE CONTRACTOR SHALL SUPPLEMENT ALL TEMPORARY PAVEMENT MARKINGS (FAST DRY PAINT) UNLESS NOTED WITH RAISED PAVEMENT MARKERS THROUGHOUT THE PROJECT. PLACEMENT SHOULD BE AT THE DIRECTION OF THE ENGINEER.

LEGEND

- PORTABLE PLASTIC DRUMS
- TEMPORARY BARRICADE
- PORTABLE TERMINAL IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- WORK AREA

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TRAFFIC CONTROL PLANS
STAGE 1

S.C. RTE. 41 DWG. NO. TC2

1/8/2015
L:\1315001 - SC 41 over Wando River\Traffic Control\TC 02_stage 1.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	TC3

NOTE:

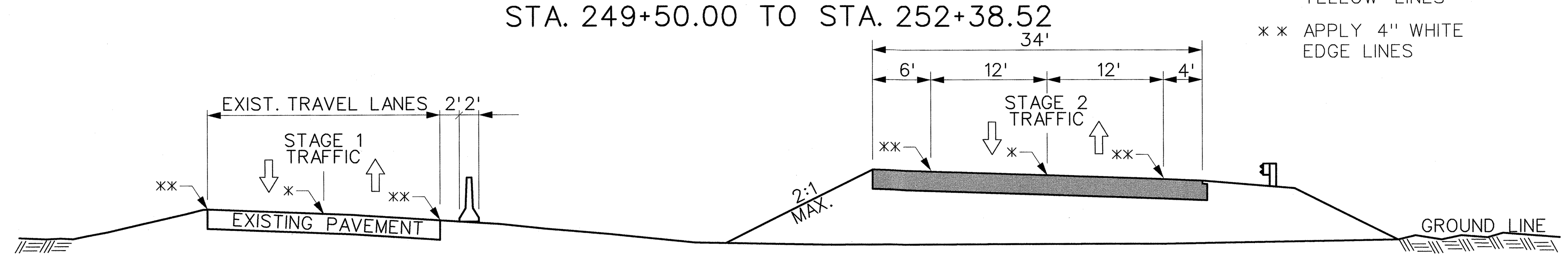
STAGING PLANS SHOW GENERAL LOCATIONS OF TRAFFIC CONTROL DEVICES AND DETOURS. SEE SCDOT TRAFFIC CONTROL STANDARD DRAWINGS FOR SPECIFIC LOCATIONS OF DRUMS, BARRICADES, AND REQUIREMENTS.

THE CONTRACTOR SHALL SUPPLEMENT ALL TEMPORARY PAVEMENT MARKINGS (FAST DRY PAINT) UNLESS NOTED WITH RAISED PAVEMENT MARKERS THROUGHOUT THE PROJECT. PLACEMENT SHOULD BE AT THE DIRECTION OF THE ENGINEER.

STAGING PLAN FOR GRADE CHANGE AREA CONSTRUCTION ON SC ROUTE 41 FROM STA. 249+50.00 TO STA. 252+38.52

* APPLY 4" DOUBLE YELLOW LINES

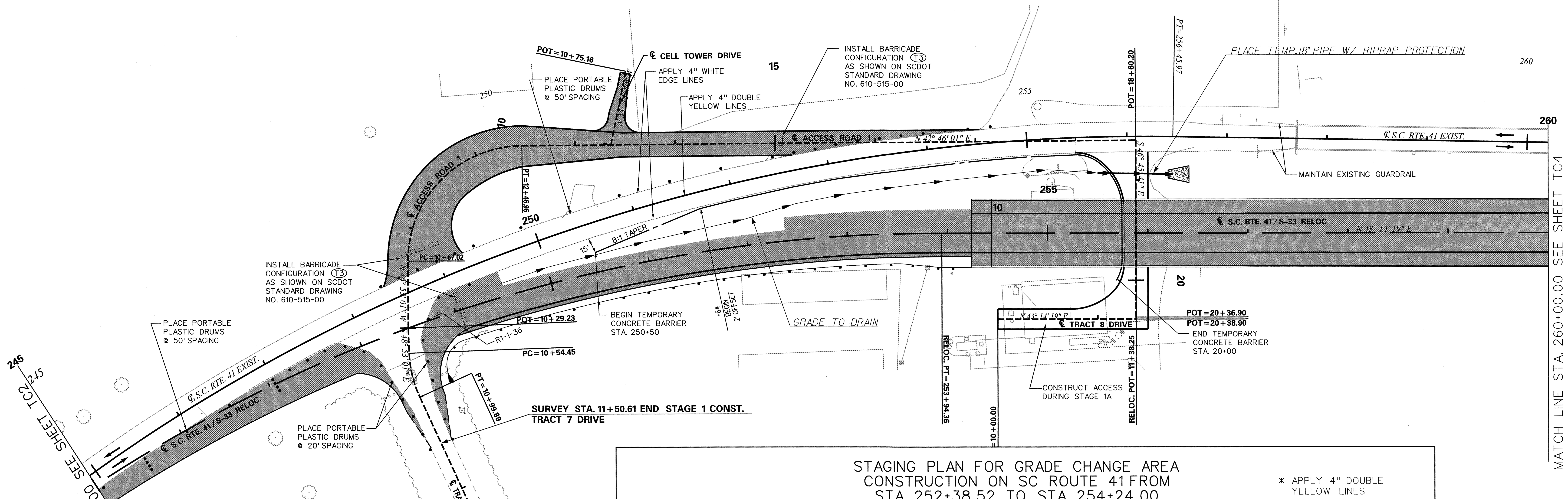
** APPLY 4" WHITE EDGE LINES



PLACE BARRIER ALONG THE EDGE OF EXISTING PAVEMENT AND BEGIN STAGE 1 CONSTRUCTION

(NOT TO SCALE)

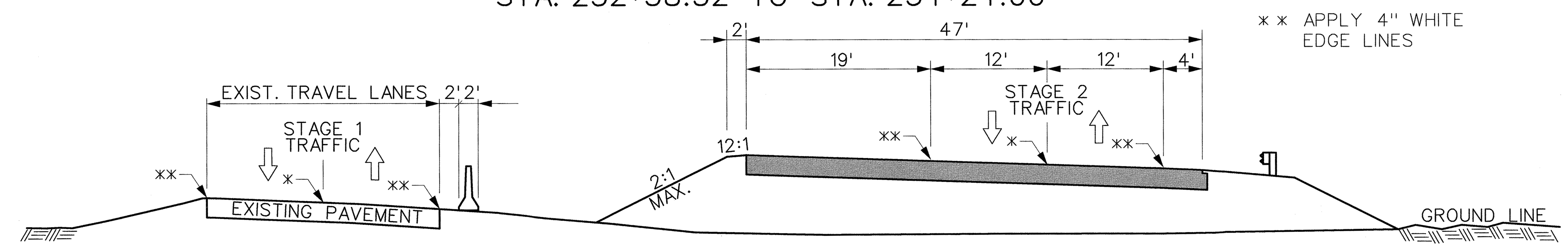
— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING



STAGING PLAN FOR GRADE CHANGE AREA CONSTRUCTION ON SC ROUTE 41 FROM STA. 252+38.52 TO STA. 254+24.00

* APPLY 4" DOUBLE YELLOW LINES

** APPLY 4" WHITE EDGE LINES



PLACE BARRIER ALONG THE EDGE OF EXISTING PAVEMENT AND BEGIN STAGE 1 CONSTRUCTION

(NOT TO SCALE)

0 25 50 100

LEGEND

- • PORTABLE PLASTIC DRUMS
- TEMPORARY BARRICADE
- PORTABLE TERMINAL IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- WORK AREA

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 5/25/17

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4	DAM	05/25/17	ADDED CELL TOWER DRIVE
3	DAM	09/30/16	ADDED TRACT 8 DRIVE
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	07/11/14	REVISED TRACT 8 DUE TO REVISED PLAT

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TRAFFIC CONTROL PLANS STAGE 1

S.C. RTE. 41 DWG. NO. TC3

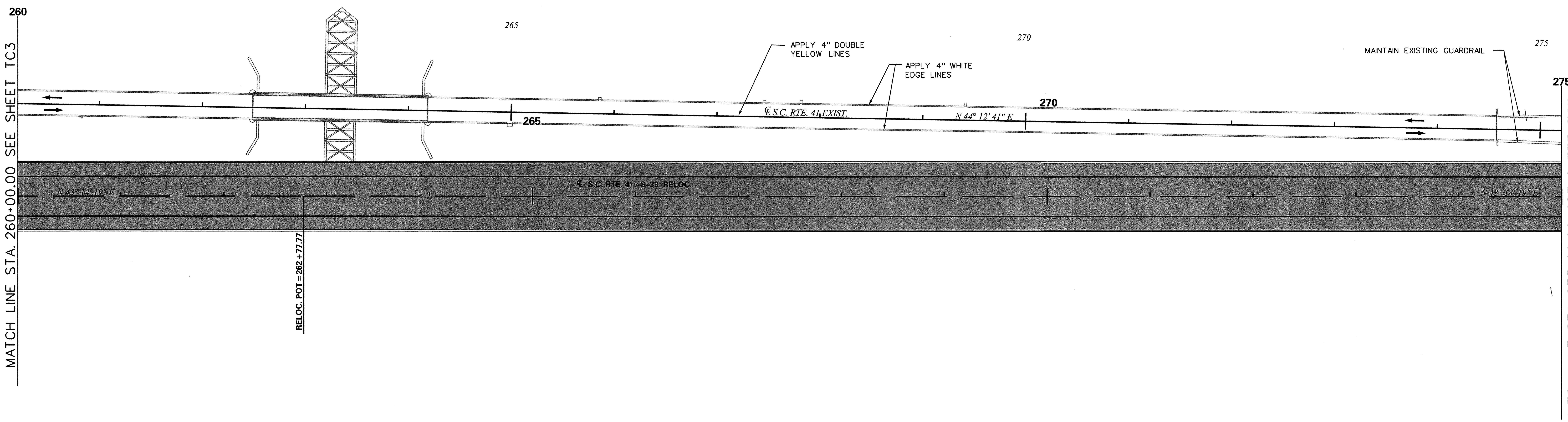
5/25/2017
L:\1315001 - SC 41 over Wando River\Traffic Control\TC 03_stage 1.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	TC4

NOTE:

STAGING PLANS SHOW GENERAL LOCATIONS OF TRAFFIC CONTROL DEVICES AND DETOURS. SEE SCDOT TRAFFIC CONTROL STANDARD DRAWINGS FOR SPECIFIC LOCATIONS OF DRUMS, BARRICADES, AND REQUIREMENTS.

THE CONTRACTOR SHALL SUPPLEMENT ALL TEMPORARY PAVEMENT MARKINGS (FAST DRY PAINT) UNLESS NOTED WITH RAISED PAVEMENT MARKERS THROUGHOUT THE PROJECT. PLACEMENT SHOULD BE AT THE DIRECTION OF THE ENGINEER.



LEGEND

- PORTABLE PLASTIC DRUMS
- TEMPORARY BARRICADE
- PORTABLE TERMINAL IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- WORK AREA

0 25 50 100

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TRAFFIC CONTROL PLANS
STAGE 1

S.C. RTE. 41 DWG. NO. TC4

1/8/2015
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	TC5

NOTE:

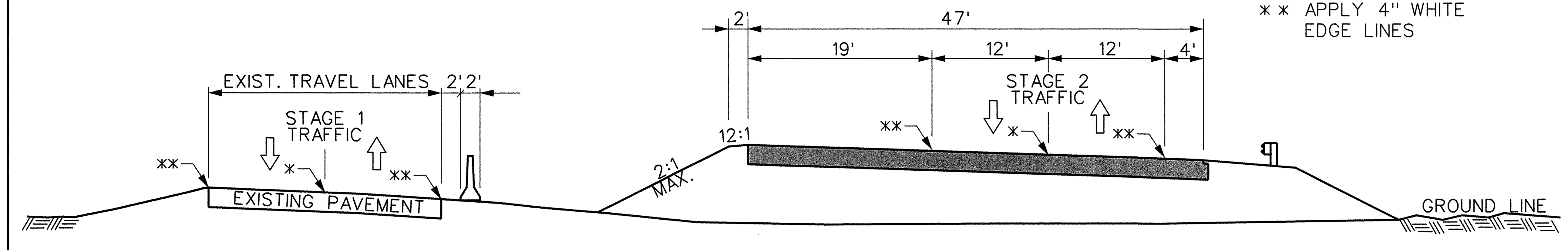
STAGING PLANS SHOW GENERAL LOCATIONS OF TRAFFIC CONTROL DEVICES AND DETOURS. SEE SCDOT TRAFFIC CONTROL STANDARD DRAWINGS FOR SPECIFIC LOCATIONS OF DRUMS, BARRICADES, AND REQUIREMENTS.

THE CONTRACTOR SHALL SUPPLEMENT ALL TEMPORARY PAVEMENT MARKINGS (FAST DRY PAINT) UNLESS NOTED WITH RAISED PAVEMENT MARKERS THROUGHOUT THE PROJECT. PLACEMENT SHOULD BE AT THE DIRECTION OF THE ENGINEER.

STAGING PLAN FOR GRADE CHANGE AREA CONSTRUCTION ON SC ROUTE 41 FROM STA. 275+52.00 TO STA. 284+25.00

* APPLY 4" DOUBLE YELLOW LINES

** APPLY 4" WHITE EDGE LINES



PLACE BARRIER ALONG THE EDGE OF EXISTING PAVEMENT AND BEGIN STAGE 1 CONSTRUCTION

(NOT TO SCALE)

LEGEND

- PORTABLE PLASTIC DRUMS
- TEMPORARY BARRICADE
- PORTABLE TERMINAL IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- WORK AREA

0 25 50 100

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	EJO	7/21/14	REMOVED NEW ROW TRACT 11

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TRAFFIC CONTROL PLANS STAGE 1

S.C. RTE. 41 DWG. NO. TC5

1/8/2015 L:\1315001 - SC 41 over Wando River\Traffic Control\TC 05_stage 1.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	TC6

NOTE:

STAGING PLANS SHOW GENERAL LOCATIONS OF TRAFFIC CONTROL DEVICES AND DETOURS. SEE SCDOT TRAFFIC CONTROL STANDARD DRAWINGS FOR SPECIFIC LOCATIONS OF DRUMS, BARRICADES, AND REQUIREMENTS.

THE CONTRACTOR SHALL SUPPLEMENT ALL TEMPORARY PAVEMENT MARKINGS (FAST DRY PAINT) UNLESS NOTED WITH RAISED PAVEMENT MARKERS THROUGHOUT THE PROJECT. PLACEMENT SHOULD BE AT THE DIRECTION OF THE ENGINEER.

LEGEND

- PORTABLE PLASTIC DRUMS
- TEMPORARY BARRICADE
- PORTABLE TERMINAL IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- WORK AREA

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	EJO	7/21/14	REVISED DITCH LT. 290+00-300+00

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TRAFFIC CONTROL PLANS
STAGE 1

S.C. RTE. 41 DWG. NO. TC6

1/8/2015
L:\1315001 - SC 41 over Wando River\Traffic Control\TC 06_stage 1.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	TC7

NOTE:

STAGING PLANS SHOW GENERAL LOCATIONS OF TRAFFIC CONTROL DEVICES AND DETOURS. SEE SCDOT TRAFFIC CONTROL STANDARD DRAWINGS FOR SPECIFIC LOCATIONS OF DRUMS, BARRICADES, AND REQUIREMENTS.

THE CONTRACTOR SHALL SUPPLEMENT ALL TEMPORARY PAVEMENT MARKINGS (FAST DRY PAINT) UNLESS NOTED WITH RAISED PAVEMENT MARKERS THROUGHOUT THE PROJECT. PLACEMENT SHOULD BE AT THE DIRECTION OF THE ENGINEER.

LEGEND

- PORTABLE PLASTIC DRUMS
- TEMPORARY BARRICADE
- PORTABLE TERMINAL IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- WORK AREA

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TRAFFIC CONTROL PLANS
STAGE 2

S.C. RTE. 41 DWG. NO. TC7

1/8/2015
L:\1315001 - SC 41 over Wando River\Traffic Control\TC 07_stage 2.dgn

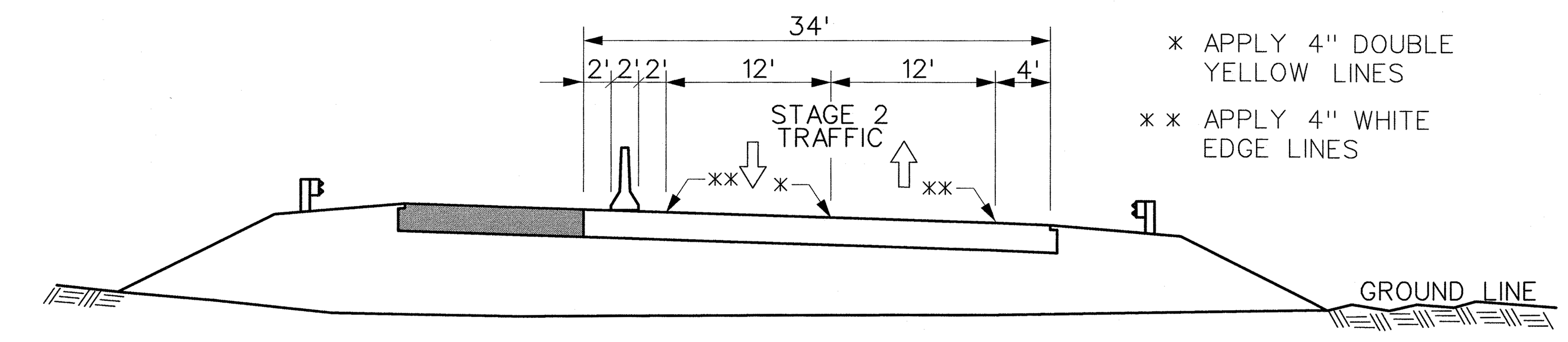
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	TC8

NOTE:

STAGING PLANS SHOW GENERAL LOCATIONS OF TRAFFIC CONTROL DEVICES AND DETOURS. SEE SCDOT TRAFFIC CONTROL STANDARD DRAWINGS FOR SPECIFIC LOCATIONS OF DRUMS, BARRICADES, AND REQUIREMENTS.

THE CONTRACTOR SHALL SUPPLEMENT ALL TEMPORARY PAVEMENT MARKINGS (FAST DRY PAINT) UNLESS NOTED WITH RAISED PAVEMENT MARKERS THROUGHOUT THE PROJECT. PLACEMENT SHOULD BE AT THE DIRECTION OF THE ENGINEER.

TYPICAL PLACEMENT OF BARRIER DURING STAGE 2 CONSTRUCTION



* APPLY 4" DOUBLE YELLOW LINES

** APPLY 4" WHITE EDGE LINES

(NOT TO SCALE)

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

LEGEND

- • PORTABLE PLASTIC DRUMS
- TEMPORARY BARRICADE
- PORTABLE TERMINAL IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- WORK AREA

0 25 50 100

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 5/25/17

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4	DAM	05/25/17	ADDED CELL TOWER DRIVE
3	DAM	09/30/16	ADDED TRACT 8 DRIVE
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	07/11/14	REVISED TRACT 8 DUE TO REVISED PLAT

TOPO.________ DATE ________
DWG.________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TRAFFIC CONTROL PLANS STAGE 2

S.C. RTE. 41 DWG. NO. TC8

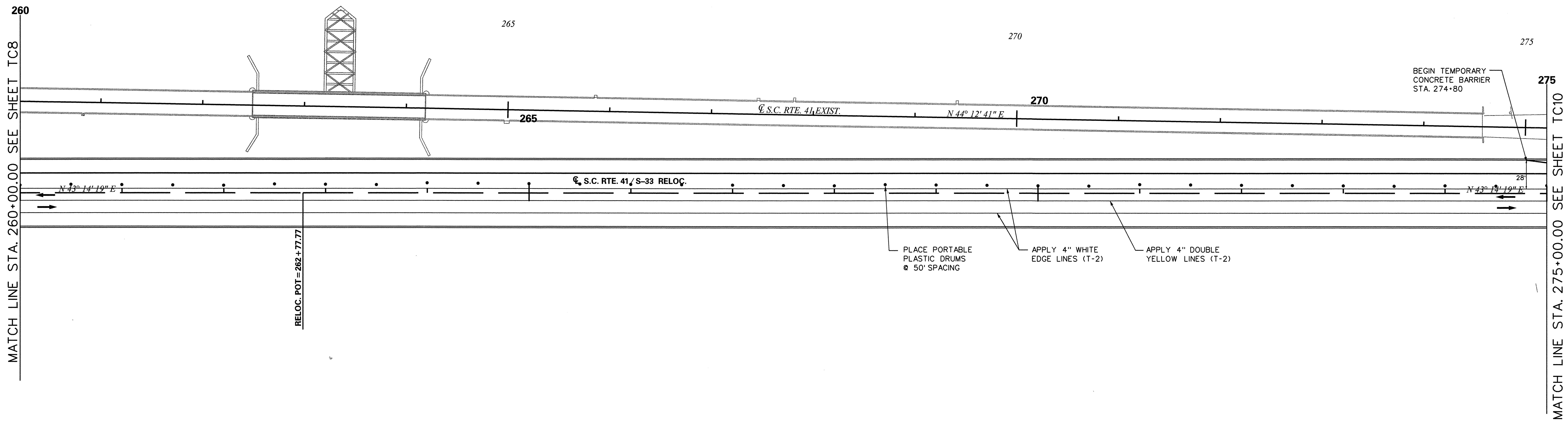
5/25/2017
L:\1315001 - SC 41 over Wando River\Traffic Control\TC 08_stage 2.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	TC9

NOTE:

STAGING PLANS SHOW GENERAL LOCATIONS OF TRAFFIC CONTROL DEVICES AND DETOURS. SEE SCDOT TRAFFIC CONTROL STANDARD DRAWINGS FOR SPECIFIC LOCATIONS OF DRUMS, BARRICADES, AND REQUIREMENTS.

THE CONTRACTOR SHALL SUPPLEMENT ALL TEMPORARY PAVEMENT MARKINGS (FAST DRY PAINT) UNLESS NOTED WITH RAISED PAVEMENT MARKERS THROUGHOUT THE PROJECT. PLACEMENT SHOULD BE AT THE DIRECTION OF THE ENGINEER.



ALL TEMPORY MARKINGS OF CONCRETE BRIDGE SURFACE SHALL BE T-2 REMOVABLE TAPE

LEGEND

- PORTABLE PLASTIC DRUMS
- TEMPORARY BARRICADE
- PORTABLE TERMINAL IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- WORK AREA

0 25 50 100

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID W. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ______ DATE ______
DWG. ______ DATE ______
R/W ______ DATE ______

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TRAFFIC CONTROL PLANS
STAGE 2

S.C. RTE. 41 DWG. NO. TC9

1/8/2015
L:\1315001 - SC 41 over Wando River\Traffic Control\TC 09_stage 2.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	TC10

NOTE:

STAGING PLANS SHOW GENERAL LOCATIONS OF TRAFFIC CONTROL DEVICES AND DETOURS. SEE SCDOT TRAFFIC CONTROL STANDARD DRAWINGS FOR SPECIFIC LOCATIONS OF DRUMS, BARRICADES, AND REQUIREMENTS.

THE CONTRACTOR SHALL SUPPLEMENT ALL TEMPORARY PAVEMENT MARKINGS (FAST DRY PAINT) UNLESS NOTED WITH RAISED PAVEMENT MARKERS THROUGHOUT THE PROJECT. PLACEMENT SHOULD BE AT THE DIRECTION OF THE ENGINEER.

0 25 50 100

LEGEND

- • PORTABLE PLASTIC DRUMS
- TEMPORARY BARRICADE
- PORTABLE TERMINAL IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- WORK AREA

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	EJO	7/21/14	REMOVED NEW ROW TRACT 11

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TRAFFIC CONTROL PLANS
STAGE 2

S.C. RTE. 41 DWG. NO. TC10

1/8/2015
L:\1315001 - SC 41 over Wando River\Traffic Control\TC 10_stage 2.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	TC11

NOTE:

STAGING PLANS SHOW GENERAL LOCATIONS OF TRAFFIC CONTROL DEVICES AND DETOURS. SEE SCDOT TRAFFIC CONTROL STANDARD DRAWINGS FOR SPECIFIC LOCATIONS OF DRUMS, BARRICADES, AND REQUIREMENTS.

THE CONTRACTOR SHALL SUPPLEMENT ALL TEMPORARY PAVEMENT MARKINGS (FAST DRY PAINT) UNLESS NOTED WITH RAISED PAVEMENT MARKERS THROUGHOUT THE PROJECT. PLACEMENT SHOULD BE AT THE DIRECTION OF THE ENGINEER.

LEGEND

- PORTABLE PLASTIC DRUMS
- TEMPORARY BARRICADE
- PORTABLE TERMINAL IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- WORK AREA

1/8/2015
L:\1315001 - SC 41 over Wando River\Traffic Control\TC 11_stage 2.dgn

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	EJO	7/21/14	REVISED DITCH LT. 290+00-300+00

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

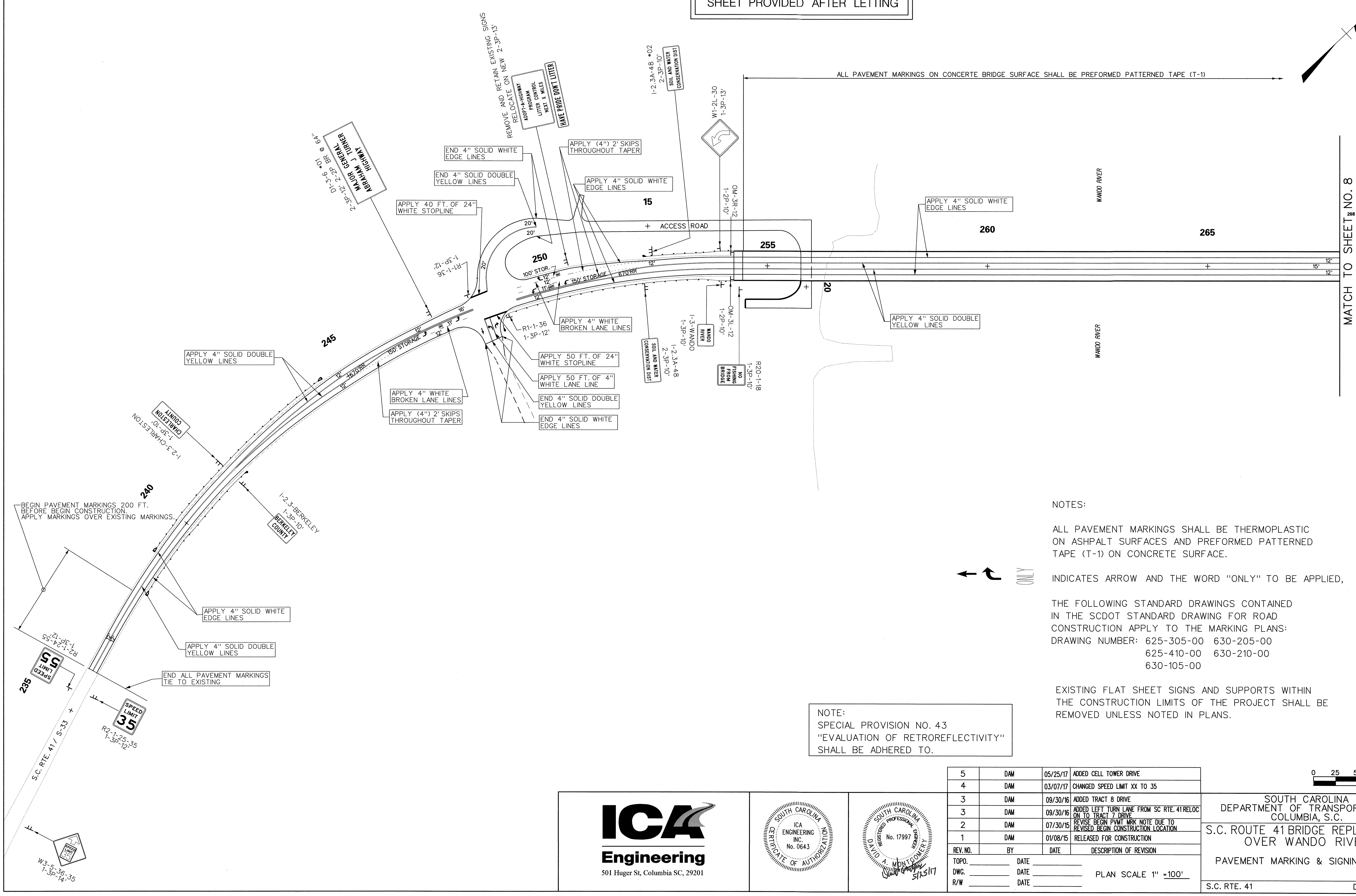
S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

TRAFFIC CONTROL PLANS
STAGE 2

S.C. RTE. 41 DWG. NO. TC11

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	PM1

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING



NOTES:

ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC ON ASHPALT SURFACES AND PREFORMED PATTERNED TAPE (T-1) ON CONCRETE SURFACE.

ONLY INDICATES ARROW AND THE WORD "ONLY" TO BE APPLIED,

THE FOLLOWING STANDARD DRAWINGS CONTAINED IN THE SCDOT STANDARD DRAWING FOR ROAD CONSTRUCTION APPLY TO THE MARKING PLANS:
DRAWING NUMBER: 625-305-00 630-205-00
625-410-00 630-210-00
630-105-00

EXISTING FLAT SHEET SIGNS AND SUPPORTS WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT SHALL BE REMOVED UNLESS NOTED IN PLANS.

NOTE:
SPECIAL PROVISION NO. 43
"EVALUATION OF RETROREFLECTIVITY"
SHALL BE ADHERED TO.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5	DAM	05/25/17	ADDED CELL TOWER DRIVE
4	DAM	03/07/17	CHANGED SPEED LIMIT XX TO 35
3	DAM	09/30/16	ADDED TRACT 8 DRIVE
3	DAM	09/30/16	ADDED LEFT TURN LANE FROM SC RTE. 41 RELOC ON TO TRACT 7 DRIVE
2	DAM	07/30/15	REVISE BEGIN PVMT MRK NOTE DUE TO REVISED BEGIN CONSTRUCTION LOCATION
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ______ DATE ______
DWG. ______ DATE ______
R/W ______ DATE ______

PLAN SCALE 1" =100'

0 25 50 100

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
5/25/17

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

PAVEMENT MARKING & SIGNING PLANS

S.C. RTE. 41 DWG. NO. PM1

5/25/2017
L:\1315001 - SC 41 over Wando River\Pavt Mk._\Sht_PM01.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	PM2

NOTE:
SPECIAL PROVISION NO. 43
"EVALUATION OF RETROREFLECTIVITY"
SHALL BE ASHERED TO.

NOTES:

ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC ON ASHPALT SURFACES AND PREFORMED PATTERNED TAPE (T-1) ON CONCRETE SURFACE.

INDICATES ARROW AND THE WORD "ONLY" TO BE APPLIED.

THE FOLLOWING STANDARD DRAWINGS CONTAINED IN THE SCDOT STANDARD DRAWING FOR ROAD CONSTRUCTION APPLY TO THE MARKING PLANS:
DRAWING NUMBER: 625-305-00 630-205-00
625-410-00 630-210-00
630-105-00

EXISTING FLAT SHEET SIGNS AND SUPPORTS WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT SHALL BE REMOVED UNLESS NOTED IN PLANS.

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — DAVID A. MONTGOMERY No. 17997 — 3/17/17

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3	DAM	03/17/17	ADDED SPEED LIMIT SIGN ON SC 41SB CHANGED SPEED LIMIT XX TO 35
2	DAM	09/30/16	ADDED TRACT 10 DRIVE
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ______ DATE ______
DWG. ______ DATE ______
R/W ______ DATE ______

PLAN SCALE 1" = 100'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

PAVEMENT MARKING & SIGNING PLANS

S.C. RTE. 41 DWG. NO. PM2

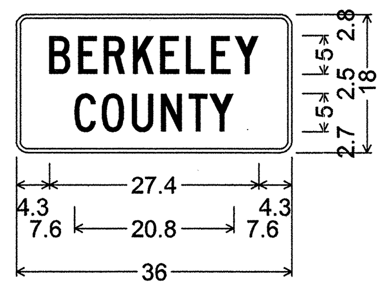
3/17/2017
L:\1315001 - SC 41 over Wando River\Pavt Mk_\Sht_PM02.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	PM3

Project ID: 0032098 Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Sign No.: I-2.3-BERKELEY Reflec. Type: TYPE III
Number of Signs: 1 Refers to sheet(s): PM1

SCDOT

SIGN SIZE 3' x 1.5' = 4.5 SF



I-2.3;
1.5" Radius, 0.5" Border, White on Green;
[BERKELEY] C;
[COUNTY] C;
Table of distances between letter and object lefts.

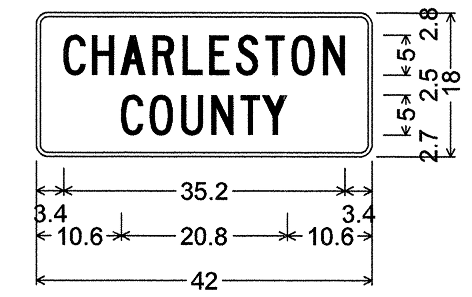
4.3	B 3.8	E 3.3	R 3.8	K 3.6	E 3.4	L 3.3	E 3.1	Y 3.1	4.3

7.6	C 3.6	O 3.9	U 3.8	N 3.6	T 2.8	Y 3.1	7.6

Project ID: 0032098 Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Sign No.: I-2.3-CHARLESTON Reflec. Type: TYPE III
Number of Signs: 1 Refers to sheet(s): PM1

SCDOT

SIGN SIZE 3.5' x 1.5' = 5.25 SF



I-2.3;
1.5" Radius, 0.5" Border, White on Green;
[CHARLESTON] C;
[COUNTY] C;
Table of distances between letter and object lefts.

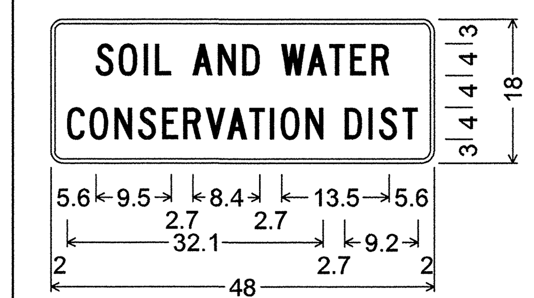
3.4	C 3.6	H 3.6	A 3.9	R 3.8	L 3.4	E 3.3	S 3.6	T 3.3	O 4.0	N 2.7	3.4

10.6	C 3.6	O 3.9	U 3.8	N 3.6	T 2.8	Y 3.1	10.6

Project ID: 0032098 Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Sign No.: I-2.3A-48 Reflec. Type: TYPE III
Number of Signs: 2 Refers to sheet(s): PM1

SCDOT

SIGN SIZE 4.0' x 1.5' = 6.0 SF



I-2.3A-48;
1.5" Radius, 0.5" Border, White on Green;
[SOIL] C; [AND] C;
[WATER] C;
[CONSERVATION] C 95% spacing;
[DIST] C 95% spacing;
Table of distances between letter and object lefts.

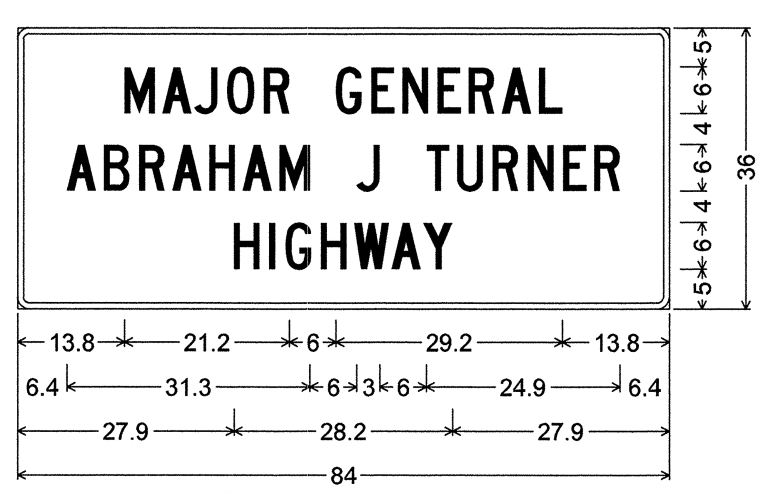
5.6	S 2.9	O 3.2	I 1.4	L 4.7	A 3.1	N 3.1	D 4.9	W 3.2	A 2.7	T 2.7	E 2.7	R 2.2	5.6

2.0	C 2.9	O 3.1	N 3.0	S 2.9	E 2.7	R 2.8	V 2.7	A 2.7	T 2.6	I 1.4	O 3.1	N 4.9	D 3.0	I 1.3	S 2.9	T 2.0	2.0

Project ID: 0032098 Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Sign No.: D1-3-6 *1 Reflec. Type: TYPE III
Number of Signs: 1 Refers to sheet(s): PM1

SCDOT

SIGN SIZE 7.0' x 3.0' = 21.0 SF



1.5" Radius, 0.8" Border, White on Green;
[MAJOR GENERAL] C; [ABRAHAM J TURNER] C;
[HIGHWAY] C;
Table of distances between letter and object lefts.

13.8	M 4.9	A 4.1	J 4.2	O 4.8	R 9.2	G 4.6	E 4.0	N 4.6	E 4.0	R 4.3	A 4.7	L 3.0	13.8

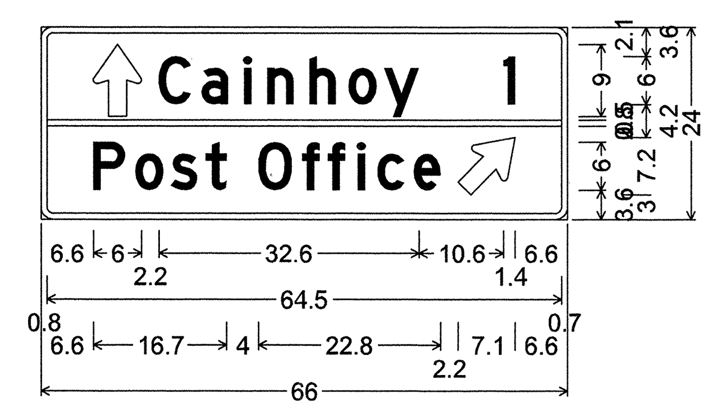
6.4	A 4.7	B 4.6	R 4.3	A 4.7	H 4.3	A 4.8	M 9.9	J 9.0	T 4.0	U 4.5	R 4.6	N 4.5	E 4.0	R 3.3	6.4

27.9	H 4.6	I 2.1	G 4.5	H 4.3	W 4.8	A 4.1	Y 3.8	27.9

Project ID: 0032098 Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Sign No.: D1-2-6 *1 Reflec. Type: TYPE III
Number of Signs: 1 Refers to sheet(s): PM2

SCDOT

SIGN SIZE 5.5' x 2.0' = 11.0 SF



1.5" Radius, 0.8" Border, White on Green;
Standard Arrow Custom 9.0" X 6.0" 90°;
[Cainhoy] D; [1] D; [Post] D; [Office] D;
Standard Arrow Custom 9.0" X 6.0" 45°;
Table of distances between letter and object lefts.

6.6	⇧ 8.2	C 5.4	a 5.3	i 2.8	n 5.3	h 5.0	o 4.4	y 15.0	1 1.4	6.6

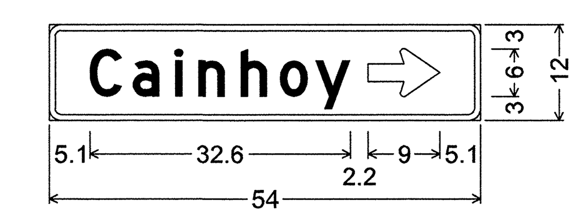
0.8	— 64.4	0.8

6.6	P 5.2	o 4.5	s 4.3	t 6.7	O 5.5	f 3.2	f 3.7	i 2.5	c 4.5	e 5.6	⬀ 7.1	6.6

Project ID: 0032098 Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Sign No.: D1-1-6 *1 Reflec. Type: TYPE III
Number of Signs: 1 Refers to sheet(s): PM2

SCDOT

SIGN SIZE 4.5' x 1.0' = 4.0 SF



1.5" Radius, 0.8" Border, White on Green;
[Cainhoy] D;
Standard Arrow Custom 9.0" X 6.0" 0°;
Table of distances between letter and object lefts.

5.1	C 5.4	a 5.3	i 2.9	n 5.3	h 4.9	o 4.5	y 6.5	⇨ 9.0	5.1

0 10 20 40

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________ PLAN SCALE 1" = ______
R/W ________ DATE ________

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

S.C. RTE. 41 DWG. NO. PM3

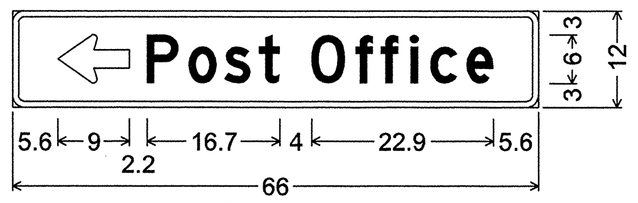
1/8/2015
L:\1315001 - SC 41 over Wando River\Povt Mk.\Sht_PM03_PM04.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	PM4

Project ID: 0032098
Sign No.: D1-1-6 *2
Number of Signs: 1
Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Reflec. Type: TYPE III
Refers to sheet(s): PM2

SCDOT

SIGN SIZE 5.5' x 1.0' = 5.5 SF



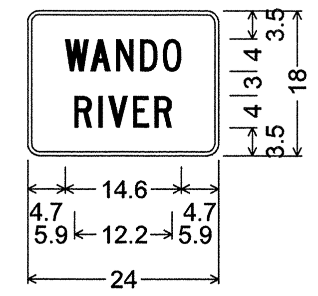
1.5" Radius, 0.8" Border, White on Green;
Standard Arrow Custom 9.0" X 6.0" 180°;
[Post] D; [Office] D;
Table of distances between letter and object lefts.

	⇦	P	o	s	t	O	f	f	i	c	e	
5.6	11.2	5.3	4.5	4.3	6.6	5.5	3.2	3.8	2.5	4.5	3.4	5.6

Project ID: 0032098
Sign No.: I-3-WANDO
Number of Signs: 1
Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Reflec. Type: TYPE III
Refers to sheet(s): PM2

SCDOT

SIGN SIZE 2.0' x 1.5' = 3.0 SF



I-3;
1.5" Radius, 0.5" Border, White on Green;
[WANDO] C;
[RIVER] C;
Table of distances between letter and object lefts.

	W	A	N	D	O	
4.7	3.2	3.2	3.0	2.9	2.3	4.7

	R	I	V	E	R	
5.9	3.0	1.2	3.2	2.6	2.2	5.9

Project ID: 0032098
Sign No.: D2-1-8 *1
Number of Signs: 1
Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Reflec. Type: TYPE III
Refers to sheet(s): PM2

SCDOT

SIGN SIZE 8' x 1.33' = 10.67 SF

Project ID: 0032098
Sign No.: D2-1-8 *1
Number of Signs: 1
Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Reflec. Type: TYPE III
Refers to sheet(s): PM2

SCDOT

SIGN SIZE 8' x 1.33' = 10.67 SF

Project ID: 0032098
Sign No.: D2-1-8 *1
Number of Signs: 1
Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Reflec. Type: TYPE III
Refers to sheet(s): PM2

SCDOT

SIGN SIZE 8' x 1.33' = 10.67 SF

Project ID: 0032098
Sign No.: D2-1-8 *1
Number of Signs: 1
Project: S.C. RTE. 41 BRIDGE REPLACEMENT
Reflec. Type: TYPE III
Refers to sheet(s): PM2

SCDOT

SIGN SIZE 8' x 1.33' = 10.67 SF

0 10 20 40

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ______ DATE ______
DWG. ______ DATE ______
R/W ______ DATE ______
PLAN SCALE 1" = ______

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

S.C. RTE. 41 DWG. NO. PM4

1/8/2015
L:\1315001 - SC 41 over Wando River\Pavt Mk_\Sht_PM03_PM04.dgn

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKLEY CHARLESTON	0032098	S.C. 41	TS1

SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT, AND BASE - MOUNTED 332 A CABINET.

EXT. ▭
PROP. ■

3 MODEL 222, (2)-CHANNEL VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. P PROP. P W/ACT. & SIGN

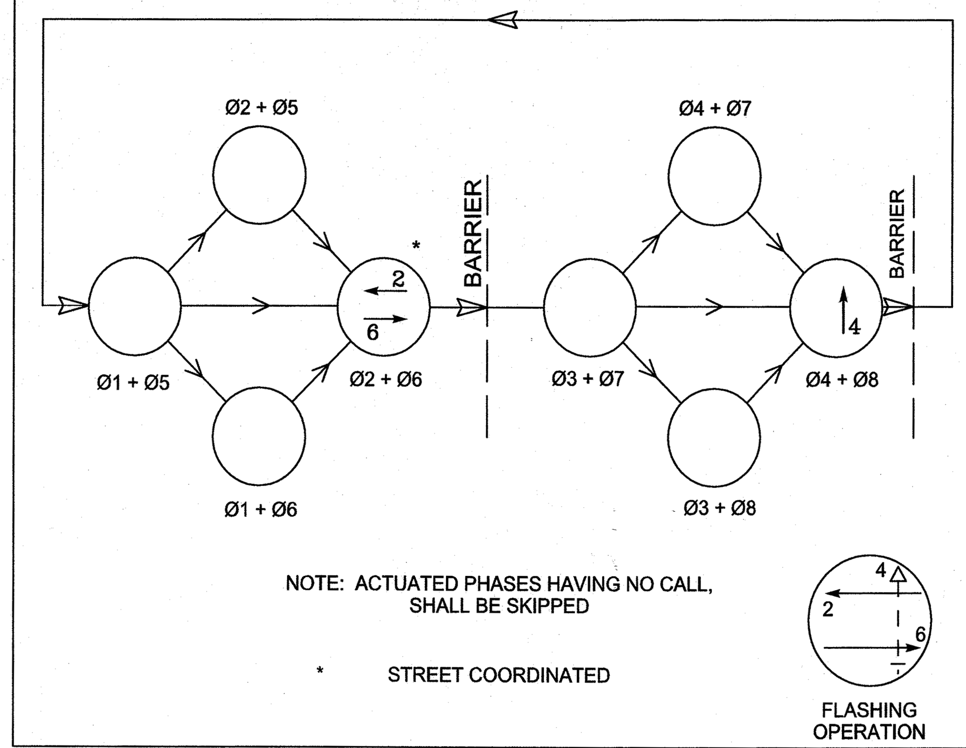
VEHICLE SIGNALS: EXT. ○—▷ PROP. ○—▶

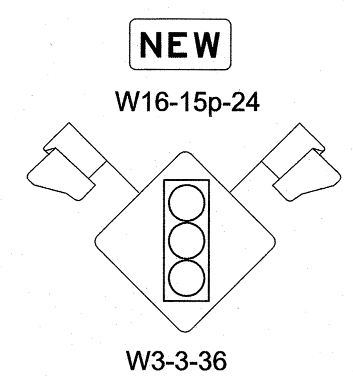
HEAD NUMBER		2		4		6				
LENS		R Y G		R Y G		R Y G				
PHASE		2		4		6				
SIZE		12"		12"		12"				
QUANTITY		2		2		2				

OLA OLC
OLB OLD

METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING





INSTALL APPROXIMATELY 300' FROM STOP BAR ON ALL THREE APPROACHES TO THE INTERSECTION. REMOVE W16-15p-24 SIGNS AND FLAGS AFTER SIGNAL HAS BEEN IN OPERATION FOR 2 MONTHS.

NOTES:

1. ALL HARDWARES ASSOCIATED WITH SIGNAL INSTALLATION SHALL BE PLACED WITHIN THE NEW AND EXISTING R/W.
2. ALL SIGNAL HEAD LENSES SHALL BE LEDs.
3. FURNISH BACKPLATE W/RETROREFLECTIVE BORDERS FOR TRAFFIC SIGNALS.
4. COORDINATE WITH EXISTING UTILITIES FOR PLACEMENT OF CONDUIT AND POLE FOUNDATIONS.
5. PEDESTRIAN PUSH BUTTON LIGHTS SHALL REMAIN ILLUMINATED UNTIL THE PEDESTRIAN GREEN OR WALK SIGNAL INDICATION IS DISPLAYED.
6. BEFORE THE CONSTRUCTION OF THE SIGNAL A SEPARATE SIGNAL PRECONSTRUCTION MEETING SHALL BE HELD WITH THE DOT SIGNAL SHOP.

SIGNAL DISPLAY SEQUENCE CHART

G-GREEN
Y-YELLOW

G-G, ARROW
Y-Y, ARROW
W-WALK **
DW-DON'T WALK

PHASE ON (A)	NON-CONFLICTION PHASE (B)	CONFLICTING PHASE *
1	5, 6, 6P	2,3,4,7, 8, 2P, 4P, 8P
2	5, 6, 2P, 6P	1,3, 4, 7, 8, 4P, 8P
3	7, 8, 8P	1,2, 4, 5, 6, 2P, 4P, 6P
4	7, 8, 4P, 8P	1,2, 3, 5, 6, 2P, 6P
5	1, 2, 2P	3,4, 6, 7, 8, 4P, 6P, 8P
6	1, 2, 2P, 6P	3,4, 5, 7, 8, 4P, 8P
7	3, 4, 4P,	1,2, 5, 6, 8, 2P, 6P
8	3, 4, 4P, 8P	1,2, 5, 6, 7, 2P, 6P

'C' = COORDINATE Ø2 ; Ø6

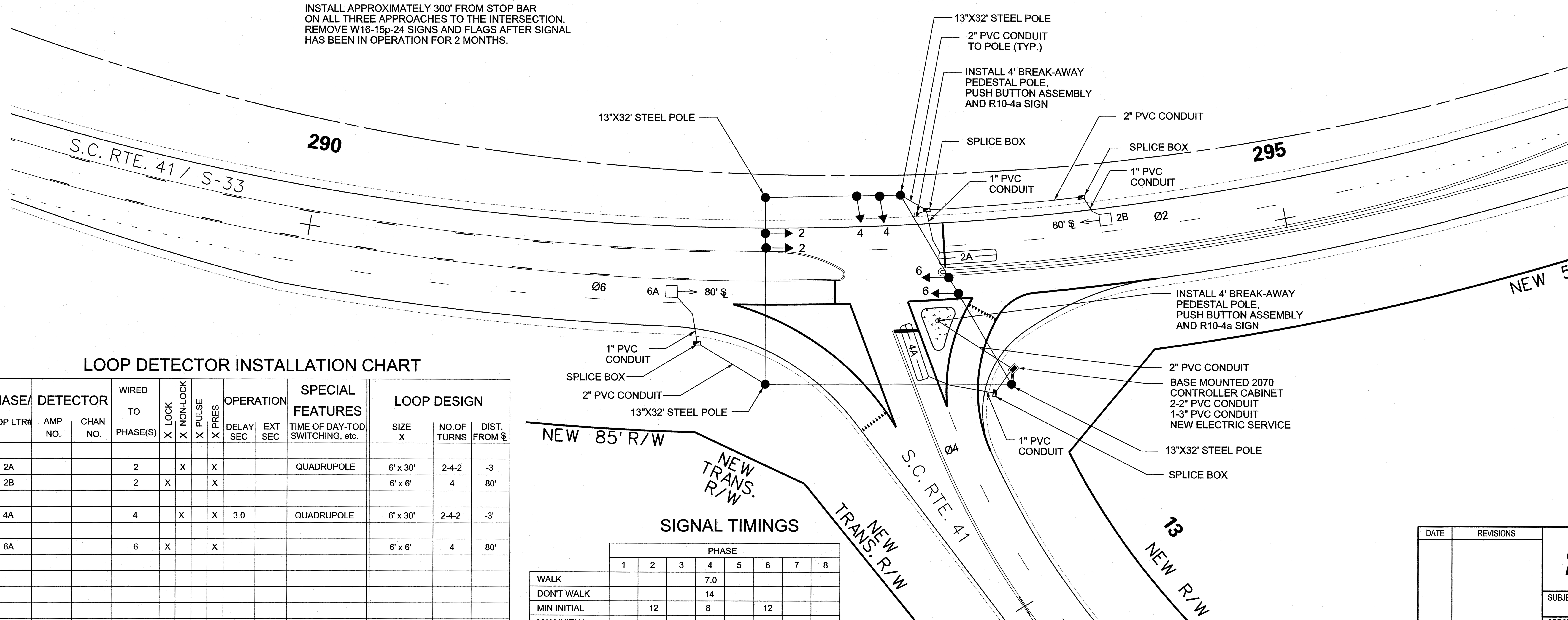
NOTE A: ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE OMITTED.
NOTE B: WHEN ONE PHASE IS ON ALONE, ANY/NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL (SEE CHART).
* CONFLICTING PHASES REQUIRE A CLEARANCE INTERVAL.

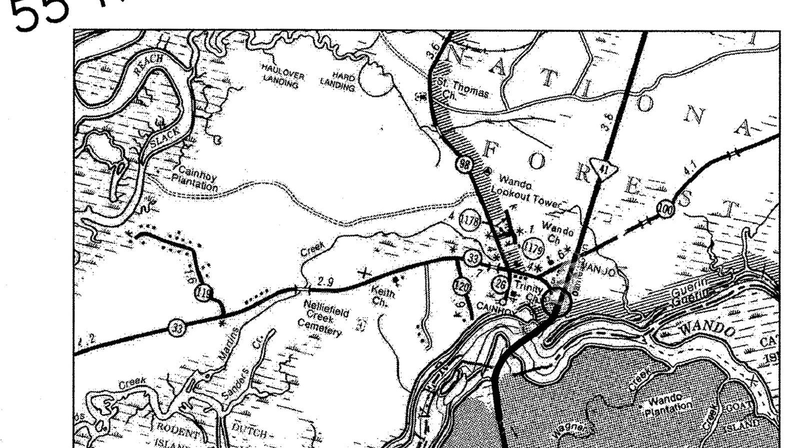
** WHEN CALLED, DISPLAY SOLID 'WALKING PERSON' AND TIMES OUT WALK TIMING; THEN DISPLAYS FLASHING 'UPRAISED HAND' AND TIMES WALK CLEARANCE (DON'T WALK TIMING), THEN DISPLAYS A SOLID 'UPRAISED HAND'.

SIGNAL DISPLAY SEQUENCE (PREFERENTIAL PHASING)

FLASH		SIGNAL HEAD NUMBER	Ø1—Ø5 R/W	CLEAR TO Ø1-Ø6	Ø2-Ø5	Ø2-Ø6	BARR.	Ø2—Ø6 R/W	CLEAR TO Ø1-Ø5			BARR.		BARRIER	Ø3—Ø7 R/W	CLEAR TO Ø3-Ø8	Ø4-Ø7	Ø4-Ø8	BARR.	Ø4—Ø8 R/W	CLEAR TO			BARR.	
-																									
Y		2						G				Y	R							R				R	R
-																									
R		4						R				R	R							G				Y	R
-																									
Y		6						G				Y	R							R				R	R

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING





ROUTE NUMBER	SC 41/S-33		SC 41	
APPROACH DIRECTION	NB	SB	WB	
SIGNAL DESIGN SPEED	35	35	35	
GRADE (%)	-0.3	-0.3	+0.7	

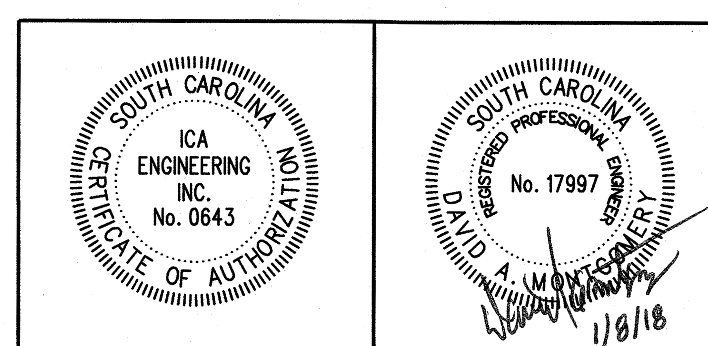
* ESTIMATED

LOOP DETECTOR INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	X LOCK	X NON-LOCK	X PULSE	X PRES	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD, SWITCHING, etc.	LOOP DESIGN SIZE X	NO.OF TURNS	DIST. FROM ℄
2A			2		X		X			QUADRUPOLE	6' x 30'	2-4-2	-3
2B			2	X			X				6' x 6'	4	80'
4A			4		X		X	3.0		QUADRUPOLE	6' x 30'	2-4-2	-3'
6A			6	X			X				6' x 6'	4	80'

SIGNAL TIMINGS

INTERVAL	PHASE 1	2	3	4	5	6	7	8
WALK				7.0				
DON'T WALK				14				
MIN INITIAL		12		8		12		
MAX INITIAL								
ADD/VEH								
VEH EXT		3.0		3.0		3.0		
TIM BFR REDUC								
TIME TO REDUC								
MIN GAP								
MAX LIMIT		70		30		70		
MAXIMUM 2								
YELLOW		3.7		3.6		3.7		
RED CLEAR		2.0		2.0		2.0		



ICA Engineering
501 Huger St, Columbia SC, 29201

DATE	REVISIONS
12/15/17	REVISED DETECTOR SETBACK AND TIMINGS FOR 35 MPH SPEED LIMIT
01/08/15	RELEASED FOR CONSTRUCTION

DESIGNED
DRAWN
CHECKED
REVIEWED
RECOMMENDED

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA, S.C.

SUBJECT TITLE: TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION: INTERSECTION OF S.C. RTE. 41 @ ROAD S-33

CITY

COUNTY: BERKELEY & CHARLESTON

APPROVED BY

DISTRICT # TRAFFIC ENGINEER

ENGINEER

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 30'		OF	TS1

1/8/2018
L:\1315001 - SC 41 over Wando River\Signal\Sht_TS1_Revised.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	EC1

EROSION CONTROL DATA SHEET

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

RECEIVING WATERS

OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS
240+70 SC-41	LT.	WANDO RIVER	ATLANTIC OCEAN
275+00 SC-41	LT.	WANDO RIVER	ATLANTIC OCEAN
281+35 SC-41	LT.	WANDO RIVER	ATLANTIC OCEAN
288+25 SC-41	LT.	WANDO RIVER	ATLANTIC OCEAN
15+00 SC-41 REL.	RT.	UNNAMED TRIBUTARY	WANDO RIVER

OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION	TO STATION	SOIL PARTICLE SIZE (COARSE / FINE)	ZONE
SC-41	240+02	258+00	FINE	LCP*
SC-41	274+00	283+00	COARSE	LCP*
SC-41	283+00	288+00	FINE	LCP*
SC-41	288+00	294+00	COARSE	LCP*
SC-41	294+00	300+60	FINE	LCP*
SC-41 REL.	10+28	14+89	COARSE	LCP*

*LOWER COASTAL PLAINS

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION	TO STATION	SIDE	DEPTH OF BLANKET (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	DITCH BOTTOM WIDTH (FT)	CLASS	CLASS A (MSY)	CLASS B (MSY)	CLASS C (MSY)
SC-41	252+50	254+50	LT.	FILL	2	-	-	A	0.289		
SC-41	252+50	254+50	RT.	FILL	2	-	-	A	0.289		
SC-41	275+30	276+00	LT.	FILL	2	-	-	A	0.074		
SC-41	275+30	278+00	RT.	FILL	2	-	-	A	0.285		
SC-41*	241+50	246+00	RT.	2.0'	VARIES	VARIES	-	A	0.728		
SC-41*	244+00	246+00	LT.	1.5'	4	2	4	A	0.310		
SC-41*	246+00	248+00	LT.	1.5'	4	2	2	A	0.265		
SC-41*	276+00	281+15	RT.	1.5'	4	2	4	A	0.797		
SC-41*	289+00	291+00	LT.	1.5'	4	2	-	A	0.221		
* SOD MAYBE SUBSTITUTED FOR APPLICATION OF TEMPORARY EROSION CONTROL BLANKET											
								TOTALS	3.258	0.000	0.000

SEDIMENT DAM

NOTE: NO INCISEMENT IS NEEDED IN ANY OF THE DITCHES

NO	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DEPTH OF SILT BASIN	SIDE SLOPE OF SILT BASIN	SPILLWAY WIDTH	SPILLWAY DEPTH	TOTAL HEIGHT TO SPILLWAY	SEDIMENT STORAGE VOLUME	RUNOFF STORAGE VOLUME	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH
1	246+00 SC-41	RT.	NOT DRAINED	100'	8'	1'	VERTICAL	11'	1'	1.9'	24 CY	89 CY	2'	1'	10'
2	249+00 SC-41	LT.	NOT DRAINED	-	-	-	-	12'	1'	1.5'	51 CY	137 CY	2'	1'	10'
3	OMITTED														
4	288+50 SC-41	RT.	NOT DRAINED	-	-	-	-	11'	1'	2.8'	7 CY	111 CY	2'	1'	10'
5	291+60 SC-41	LT.	NOT DRAINED	-	-	-	-	9'	1'	2.6'	27 CY	59 CY	2'	1'	10'
6	14+50 SC-41 REL.	LT.	NOT DRAINED	100'	10'	4'	VERTICAL	12'	1'	1.4'	17 CY	203 CY	2'	1'	10'

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION	TO STATION	SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
SC-41	241+50	250+50	RT.	17	150	102	
SC-41	244+00	248+00	LT.	19	150	57	
SC-41	276+00	281+15	RT.	14	150	56	
SC-41	288+50	292+00	RT.	17	150	51	
SC-41	289+00	300+00	LT.	22	150	176	
SC-41	294+00	300+00	RT.	19	150	76	
SC-41 REL.	11+00	14+50	LT.	25	150	75	
ACCESS	10+50	11+50	LT.	10	150	10	
ACCESS	11+50	12+50	LT.	10	150	10	
					GRAND TOTAL	613	

PERMANENT TURF REINFORCED MAT

ROAD / ROUTE	STATION	TO STATION	SIDE	DEPTH OF MAT (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)	TYPE 4 (MSY)
								TOTALS	0.000	0.000	0.000	0.000

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA
ICA ENGINEERING INC. No. 0643
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
12/16/16

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4	EJO	12/16/16	REVISED TRM / ECB DATA.
3	EJO	11/10/16	REV. SED. DAM NO.'S 1, 2, & 3, REV. PRM DATA.
2	EJO	09/30/16	REVISED SEDIMENT DAM NO.'S 1, 2, 4, 5, & 6
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

EROSION CONTROL DATA SHEET

S.C. RTE. 41 DWG. NO. EC1

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	EC2

GENERAL CONSTRUCTION NOTES (EROSION CONTROL PLANS)

SCDHEC STANDARD NOTES

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

   -WHERE STABILIZATION BY THE 14th DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

   -WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS. TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY CONSTRUCTED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.

7. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

8. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

9. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

10. A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

11. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

12. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

13. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WAHSING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.)

15. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
   -WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
   -WASTEWATER FROM WASHOUT OF WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
   -FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
   -SOAPS OR SOLVENTS USED IN VEHICE AND EQUIPMENT WASHING.

16. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

17. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

18. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE, THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

SEDIMENT & EROSION CONTROL CONSTRUCTION SEQUENCE

1. RECEIVE NPDES COVERAGE FROM SCDHEC-OCRM.

2. PRE-CONSTRUCTION MEETING (ON-SITE IF MORE THAN 10 ACRES DISTURBED AND NON-LINEAR).

3. NOTIFY SCDHEC-OCRM OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.

4. INSTALLATION OF CONSTRUCTION ENTRANCE(S).

5. CLEARING AND GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.

6. INSTALLATION OF PERIMETER CONTROLS (E.G. SILT FENCE).

7. CLEARING AND GRUBBING OF SITE OR DEMOLITION. (SEDIMENT AND EROSION CONTROL MEASURES FOR THESE AREA MUST ALREADY BE INSTALLED).

8. ROUGH GRADING

9. INSTALL STORM DRAINAGE SYSTEMS AS ALLOWED. INSTALL INLET PROTECTION, CLEAN OUT AS NECESSARY.

10. FINE GRADING, PAVING, ETC.

11. PERMANENT/FINAL STABILIZATION.

12. REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED. (IT IS RECOMMENDED THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES).

13. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDHEC-OCRM AS APPROPRIATE.

CONSTRUCTION SEQUENCE NOTES

IF NPDES COVERAGE IS BEING ISSUED AFTER LAND-DISTURBING ACTIVITIES HAVE ALREADY STARTED (E.G. IN RESPONSE TO A NOTICE TO COMPLY, NOTICE OF VIOLATION, OR ENFORCEMENT ACTION), THEN THE CONSTRUCTION SEQUENCE MUST SPECIFICALLY INDICATE THE ITEMS THAT HAVE ALREADY OCCURRED AND THE ITEMS THAT WILL BE OCCURING AFTER NPDES COVERAGE IS ISSUED.

IF FLOWS FROM OFFSITE AREAS WILL BE DIVERTED AROUND THE SITE AND THE ON-SITE STRUCTURES ARE NOT DESIGNED TO HANDLE FLOWS FROM OFFSITE AREAS, THE THE DIVERSIONS/PIPING FOR THE OFFSITE FLOWS MUST BE INSTALLED BEFORE LAND-DISTURBING ACTIVITIES BEGIN ON THE SITE. SEDIMENT AND EROSION CONTROL MEASURES FOR THE DISTURBED AREAS FOR THE DIVERSION/PIPING MUST BE INSTALLED BEFORE THOSE AREAS ARE DISTURBED AND SHOULD BE SHOWN ON THE PLANS.

MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.

CONSTRUCTION NOTES

1. CLEARING AND GRUBBING
THE CONTRACTOR WILL BE REQUIRED TO CLEAR ALL AREAS NECESSARY FOR THE CONSTRUCTION OF ANY SEDIMENT CONTROL STRUCTURES AND INSTALL THE SEDIMENT CONTROL STRUCTURES AND ALL OTHER PERIMETER EROSION CONTOL MEASURES PRIOR TO CLEARING AND GRUBBING ACTIVITIES.

2. SEEDING
SEEDING SHALL BE ACCOMPLISHED ACCORDING TO S.C.D.O.T. SUPPLEMENTAL TECHNICAL SPECIFICATION "SEEDING-SC-M-810 (APRIL 2011).

3. EROSION CONTROL MEAUSRES
ALL EROSION CONTROL MEASURES ON THIS PROJECT SHALL BE IMPLEMENTED AS DETAILED ON THE PLANS. SILT FENCE AND OTHER EROSION CONTROL FEATURES SHALL BE IN PLACE PRIOR TO GROUND DISTURBING ACTIVITY BEGINS. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING ALL STAGES OF CONSTRUCTION.

4. PERIMETER EROSION CONTROL DEVICES
SILT FENCE MAY BE PLACED AT LOCATIONS WHERE SEDIMENT LEAVES THE PROJECT LIMITS ESPECIALLY AT THE TOE OF FILL SLOPES THAT SLOPE AWAY FROM THE PROJECT. SILT FENCE SHALL NOT BE PLACED IN A POSITION SUCH THAT IT BLOCKS DRIVEWAYS OR POINTS OF ACCESS TO PROPERTY.

5. INTERIOR EROSION CONTROL DEVICES
INLET PROTECTION SHOULD BE PLACED WHEN PRACTICAL, AROUND NEW CATCH BASINS SO AS TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM. REFER TO THE PLAN SHEETS FOR PLACEMENT OF EROSION CONTROL MEASURES.

6. INSPECTION AND IMPLEMENTATION
ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED ACCORDING TO THE REQUIREMENTS OF THE NPDES GENERAL CONSTRUCTION PERMIT. STABILIZATION MEASURES SHALL BE IMPLEMENTED AS SOON AS PRACTICABLE WITHIN THE ALLOWABLE TIME FRAME STATED WITHIN THE NPDES GENERAL CONSTRUCTION PERMIT IN PORTIONS OF THE SITE WHERE ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.

7. SAFETY FENCE
THE CONTRACTOR SHALL INSTALL AND MAINTAIN A SAFETY FENCE TO MARK ALL JURISDICTIONAL BOUNDARIES WITHIN THE PROJECT CORRIDOR. THE FENCE AND FLAGGING SHALL BE PLACED PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. REFER TO SPECIAL PROVISION 65 IN CONSTRUCTION CONTRACT FOR ADDITIONAL DETAILS ON MATERIALS AND INSTALLATION. THE CONTRACTOR SHALL MAINTAIN SAFETY FENCE FOR THE DURATION OF THE PROJECT AS DETERMINED BY THE RESIDENT CONSTRUCTION ENGINEER.

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

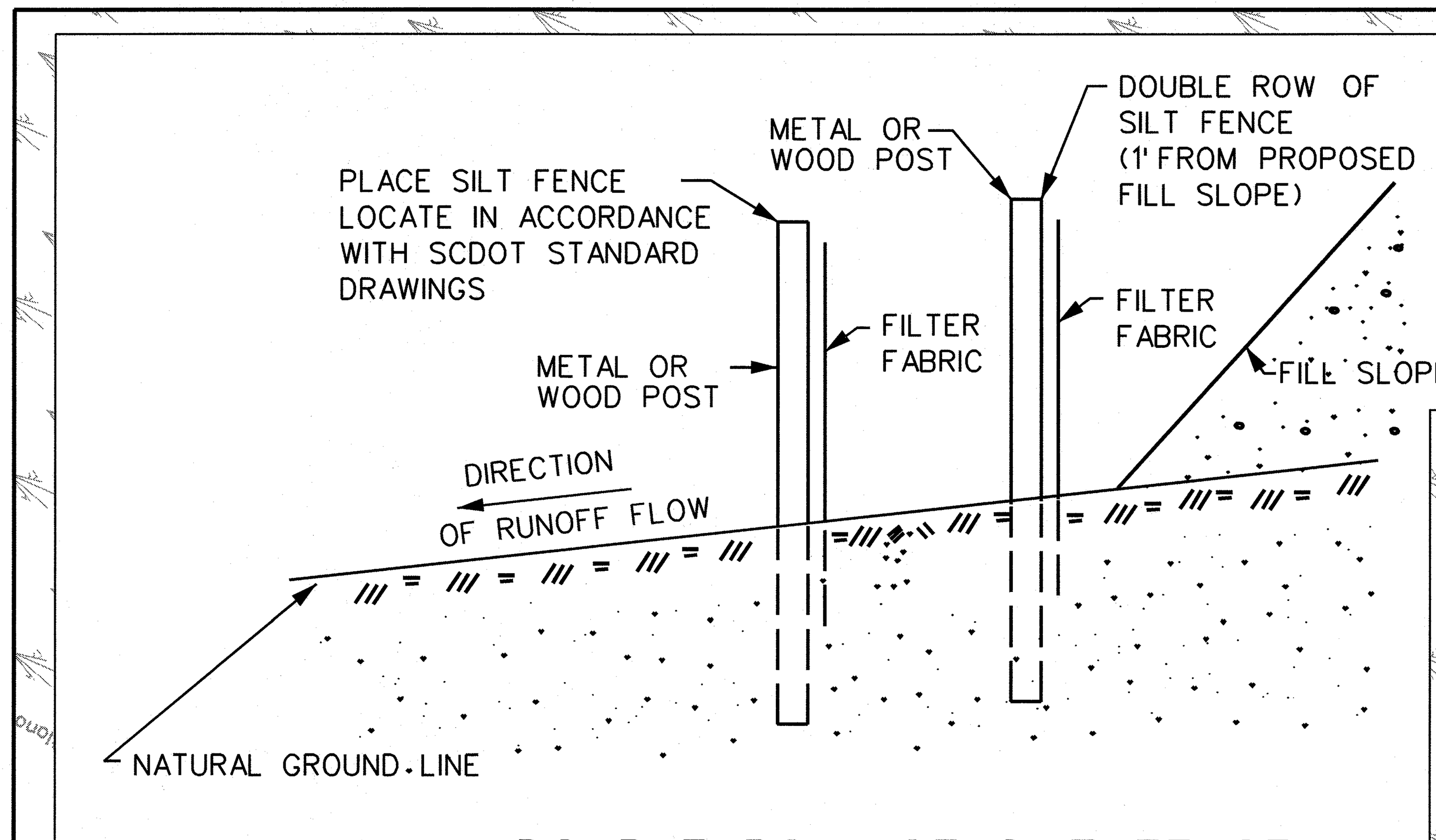
SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER

EROSION CONTROL NOTES

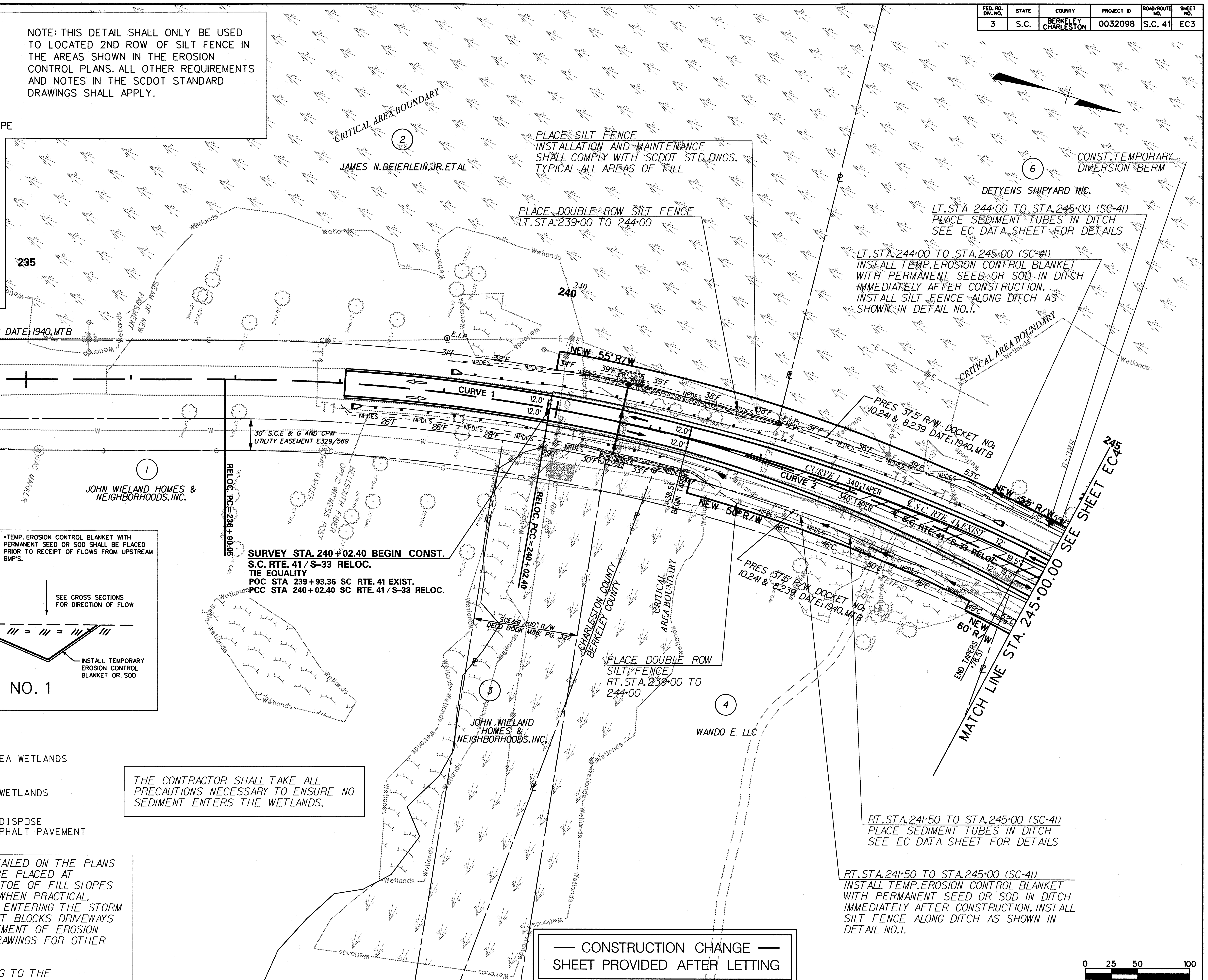
S.C. RTE. 41 DWG. NO. EC2

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	EC3



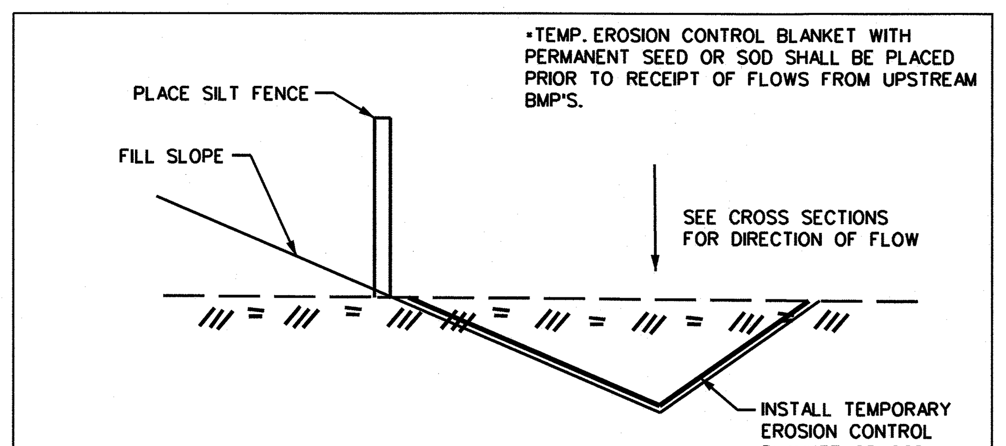
DOUBLE ROW OF SILT FENCE

NOTE: THIS DETAIL SHALL ONLY BE USED TO LOCATED 2ND ROW OF SILT FENCE IN THE AREAS SHOWN IN THE EROSION CONTROL PLANS. ALL OTHER REQUIREMENTS AND NOTES IN THE SCDOT STANDARD DRAWINGS SHALL APPLY.



LEGEND

- NPDES LINE
- LIMITS OF CONSTRUCTION
- PROPERTY LINE
- "V" DITCH
- F.B. DITCH
- STORM DRAIN
- DB TEMPORARY DIVERSION BERM
- INLET STRUCTURE FILTER
- SEDIMENT DAM
- SPECIAL DITCH CHECK
- CRITICAL AREA WETLANDS
- FRESHWATER WETLANDS
- REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT



DETAIL NO. 1

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO ENSURE NO SEDIMENT ENTERS THE WETLANDS.

EROSION CONTROL MEASURES ON THIS PROJECT SHALL BE IMPLEMENTED AS DETAILED ON THE PLANS AND THE SCDOT STANDARD DRAWINGS FOR EROSION CONTROL. SILT FENCE MAY BE PLACED AT LOCATIONS WHERE SEDIMENT LEAVES THE PROJECT LIMITS, ESPECIALLY AT THE TOE OF FILL SLOPES THAT SLOPE AWAY FROM THE PROJECT. INLET PROTECTION SHOULD BE PLACED WHEN PRACTICAL, AROUND EXISTING AND NEW CATCH BASINS SO AS TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM. SILT FENCE SHALL NOT BE PLACED IN A POSITION SUCH THAT IT BLOCKS DRIVEWAYS OR POINTS OF ACCESS TO PROPERTY. REFER TO THE PLAN SHEETS FOR PLACEMENT OF EROSION CONTROL MEASURES AND REFER TO THE SCDOT EROSION CONTROL STANDARD DRAWINGS FOR OTHER DETAILS ON OTHER EROSION CONTROL MEASURES.

ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED ACCORDING TO THE REQUIREMENTS OF THE NPDES GENERAL CONSTRUCTION PERMIT. STABILIZATION MEASURES SHALL BE IMPLEMENTED AS SOON AS PRACTICAL WITHIN THE ALLOWABLE TIME FRAME STATED WITHIN THE NPDES GENERAL CONSTRUCTION PERMIT IN PORTIONS OF THE SITE WHERE ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.

SILT FENCE AND OTHER EROSION CONTROL FEATURES SHALL BE IN PLACE PRIOR TO GROUND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING ALL STAGES OF CONSTRUCTION.

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID ... 12/16/16

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4	EJO	12/16/16	REVISED DETAIL NO. 1 AND DITCH MATTING NOTES
3	EJO	11/10/16	REVISED SEDIMENT DAM NO. 1
2	EJO	09/30/16	REVISED SEDIMENT DAM NO. 1 AND NO. 2
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ______ DATE ______
DWG. ______ DATE ______
R/W ______ DATE ______

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT OVER WANDO RIVER
EROSION CONTROL PLANS
S.C. ROUTE 41
STA. 231+00.00 TO STA. 245+00.00

S.C. RTE. 41 DWG. NO. EC3

12/16/2016
L:\1315001 - SC 41 over Wando River\Erosion Control\ShtEC03.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	EC4

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

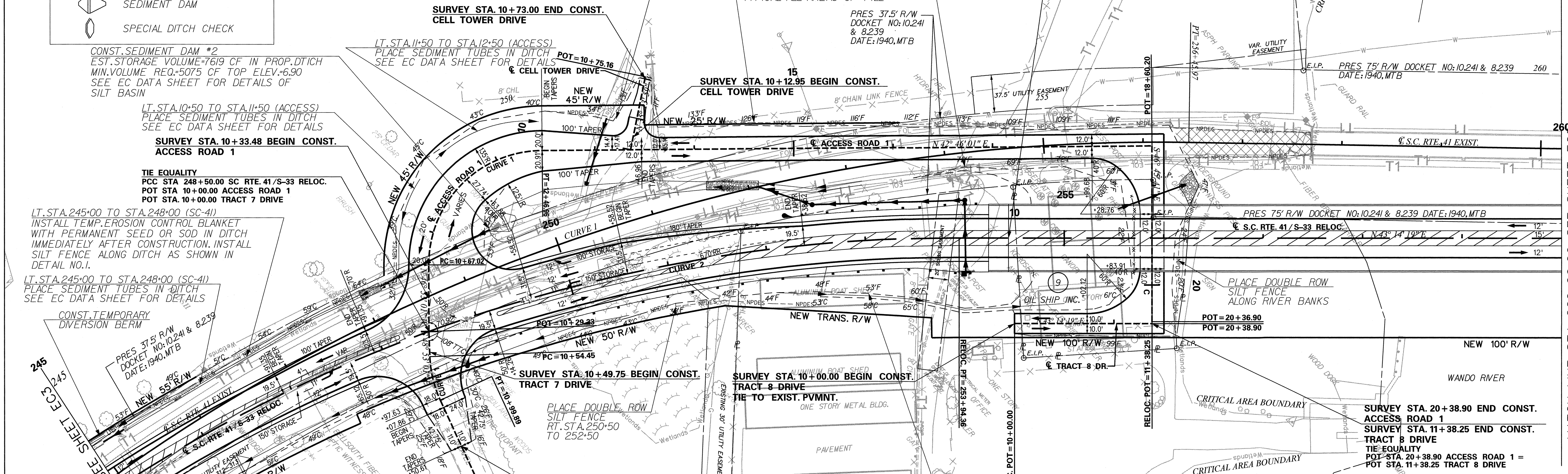
LEGEND

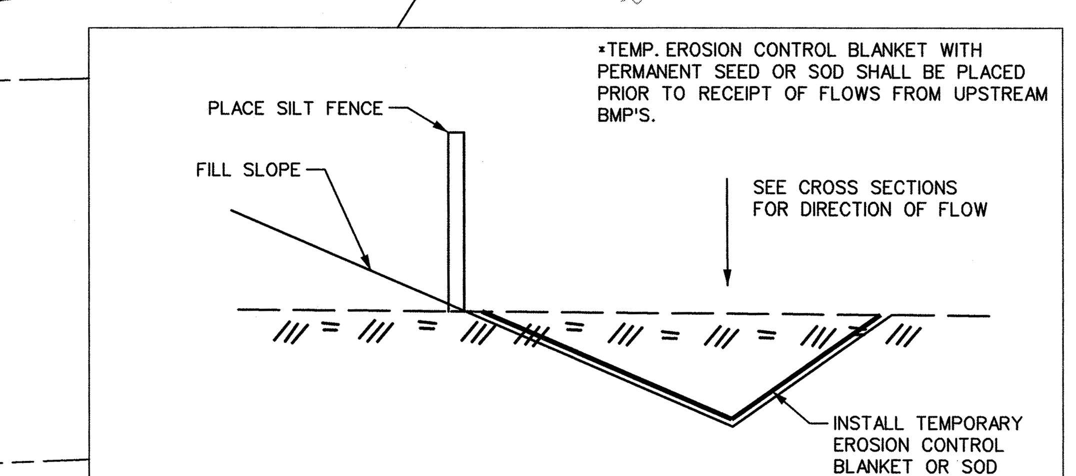
- NPDES LINE
- LIMITS OF CONSTRUCTION
- PROPERTY LINE
- "V" DITCH
- F.B.DITCH
- STORM DRAIN
- DB TEMPORARY DIVERSION BERM
- INLET STRUCTURE FILTER
- SEDIMENT DAM
- SPECIAL DITCH CHECK

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO ENSURE NO SEDIMENT ENTERS THE WETLANDS OR RIVER.

PLACE INLET STRUCTURE FILTER TYPE F (NON-WEIGHTED) AT ALL TYPE 17 CATCH BASINS BEFORE ROADWAY BASE IS PLACED.

PLACE INLET STRUCTURE FILTER TYPE F (WEIGHTED) AT ALL TYPE 17 CATCH BASINS AFTER ROADWAY BASE IS PLACED.





DETAIL NO. 1

CRITICAL AREA WETLANDS

FRESHWATER WETLANDS

REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 5/25/17

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5	DAM	05/25/17	ADDED CELL TOWER DRIVE
4	EJO	12/16/16	REVISED DETAIL NO. 1 AND DITCH MATTING NOTES
3	EJO	11/10/16	REVISED SEDIMENT DAM NO. 1
2	EJO	09/30/16	REVISED SEDIMENT DAM NO. 2
2	DAM	09/30/16	ADDED LEFT TURN LANE FROM SC RTE. 41 RELOC ON TO TRACT 7 DRIVE. ADDED TRACT 8 DRIVE
2	DAM	09/30/16	REVISE NEW R/W TRACT 7 & 8
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

0 25 50 100

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER
EROSION CONTROL PLANS
S.C. ROUTE 41
STA. 245+00.00 TO STA. 260+00.00

S.C. RTE. 41 DWG. NO. EC4

5/25/2017
L:\1315001 - SC 41 over Wando River\Erosion Control\ShEC04.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	EC5

LEGEND

- NPDES LINE
- LIMITS OF CONSTRUCTION
- PROPERTY LINE
- "V" DITCH
- F.B.DITCH
- STORM DRAIN
- DB TEMPORARY DIVERSION BERM
- INLET STRUCTURE FILTER
- SEDIMENT DAM
- SPECIAL DITCH CHECK

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO ENSURE NO SEDIMENT ENTERS THE WETLANDS OR RIVER.

CRITICAL AREA WETLANDS

FRESHWATER WETLANDS

REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ________ DATE ________
DWG. ________ DATE ________
R/W ________ DATE ________

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER
EROSION CONTROL PLANS
S.C. ROUTE 41
STA. 260+00.00 TO STA. 275+00.00

S.C. RTE. 41 DWG. NO. EC5

1/8/2015
L:\1315001 - SC 41 over Wando River\Erosion Control\ShtEC05.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	EC6

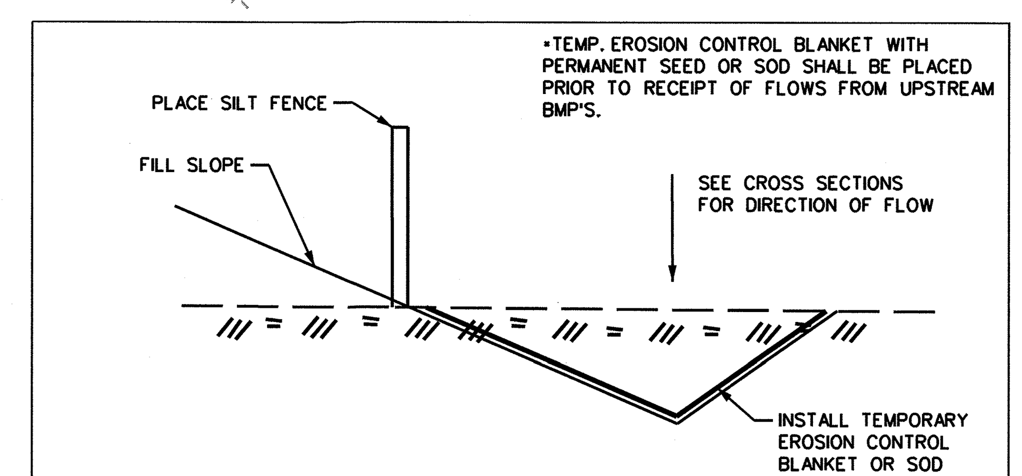
THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO ENSURE NO SEDIMENT ENTERS THE WETLANDS OR RIVER.

PLACE INLET STRUCTURE FILTER TYPE F (NON-WEIGHTED) AT ALL TYPE 17 CATCH BASINS BEFORE ROADWAY BASE IS PLACED.

PLACE INLET STRUCTURE FILTER TYPE F (WEIGHTED) AT ALL TYPE 17 CATCH BASINS AFTER ROADWAY BASE IS PLACED.

LEGEND

--- NPDES ---	NPDES LINE
— — —	LIMITS OF CONSTRUCTION
———	PROPERTY LINE
	"V" DITCH
	F.B. DITCH
	STORM DRAIN
DB	TEMPORARY DIVERSION BERM
	INLET STRUCTURE FILTER
	SEDIMENT DAM
	SPECIAL DITCH CHECK
Wetlands	CRITICAL AREA WETLANDS
Wetlands	FRESHWATER WETLANDS
	REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT



DETAIL NO. 1

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 12/16/16

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5	EJO	12/16/16	REVISED DETAIL NO. 1 AND DITCH MATTING NOTES
4	EJO	11/10/16	REMOVED SEDIMENT DAM NO. 3, REV. EC DESIGN
3	DAM	09/30/16	ADDED TRACT 10 DRIVE
2	EJO	09/30/16	REVISED SEDIMENT DAM NO. 4
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ______ DATE ______
DWG. ______ DATE ______
R/W ______ DATE ______

PLAN SCALE 1" = 50'

0 25 50 100

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER

S.C. ROUTE 41
STA. 275+00.00 TO STA. 290+00.00

S.C. RTE. 41 DWG. NO. EC6

12/16/2016
L:\1315001 - SC 41 over Wando River\Erosion Control\ShtEC06.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	EC7

ICA Engineering
501 Huger St, Columbia SC, 29201

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 12/16/16

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3	EJO	12/16/16	ADDED DETAIL NO. 1 AND REV. DITCH MATTING
2	EJO	09/30/16	REVISED SEDIMENT DAM NO. 5 AND NO. 6
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

TOPO. ______ DATE ______
DWG. ______ DATE ______
R/W ______ DATE ______

PLAN SCALE 1" = 50'

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER WANDO RIVER
EROSION CONTROL PLANS
S.C. ROUTE 41
STA. 290+00.00 TO STA. 300+60.00

S.C. RTE. 41 — DWG. NO. EC7

12/16/2016
L:\1315001 - SC 41 over Wando River\Erosion Control\ShtEC07.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X1

S.C. RTE. 41 / S-33 RELOC.

S.C. ROUTE 41 BRIDGE REPLACEMENT
OVER THE WANDO RIVER

SHEET NUMBER	INDEX OF SHEETS DESCRIPTION	SHEET SUBTOTALS
X1-X39	S.C. RTE. 41 / S-33	39
X40-X42	S.C. ROUTE 41 N RELOC	3
X43-X46	ACCESS ROAD 1	4
X47-X48	TRACT 7 DRIVE	2
X49	TRACT 12 DRIVE	1
	TOTAL SHEETS	49

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER DAVID A. MONTGOMERY No. 17997 1/8/15

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FXX1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X2

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015 L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X3

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY

1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X4

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X5

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

5'

5'

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FXX1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X6

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X7

S.C. RTE. 41 / S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X8

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FXX1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X9

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X10

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FXX1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X11

S.C. RTE. 41 / S-33 RELOC.

END BRIDGE STA. 275+52.00

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/16

1/8/2015
L:\1315001- SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X12

S.C. RTE. 41 / S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER DAVID A. MONTGOMERY No. 17997

1/6/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X13

S.C. RTE. 41 / S–33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
1	DAM	8/28/14	REVISED NEW R/W TRACT 7 & 8

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
ICA ENGINEERING INC.
No. 0643

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X14

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X15

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
1	DAM	8/28/14	REVISED NEW R/W TRACT 7 & 8

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

1/8/2015
L:\1315001 - SC 41 over Wondo River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X16

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER DAVID A. MONTGOMERY No. 17997

1/8/15

1/8/2015
L:\1315001- SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X17

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X18

S.C. RTE. 41 / S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

1/8/2015
L:\1315001- SC 41 over Wando River\X-Sect1\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X19

S.C. RTE. 41 / S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
ICA ENGINEERING INC.
No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X20

S.C. RTE. 41 / S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X21

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FXX1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X22

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY

1/8/15

1/8/2015
L:\1315001- SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X23

S.C. RTE. 41/S-33 RELOC.

3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA
ICA ENGINEERING INC.
No. 0643
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X24

S.C. RTE. 41/S-33 RELOC.

3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
ICA ENGINEERING INC.
No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X25

S.C. RTE. 41 / S–33 RELOC.

3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X26

S.C. RTE. 41/S-33 RELOC.

3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015 L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X27

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY

1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X28

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015 L:\1315001 - SC 41 over Wondo River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X29

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY

1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X30

S.C. RTE. 41 / S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2	DAM	01/08/15	RELEASE FOR CONSTRUCTION
1	DAM	08/28/14	REMOVED ROW TRACT 11

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY

1/8/15

1/8/2015 L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X31

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	08/28/14	REVISED DITCH LT. SIDE

SOUTH CAROLINA
ICA ENGINEERING INC.
No. 0643
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
1/8/15

1/8/2015 L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X32

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	08/28/14	REVISED DITCH LT. SIDE

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY

1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X33

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	08/28/14	REVISED DITCH LT. SIDE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/6/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X34

S.C. RTE. 41 / S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	08/28/14	REVISED DITCH LT. SIDE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X35

S.C. RTE. 41/S-33 RELOC.

298+50.00

298+00.00

297+50.00

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	DAM	11/02/17	REV. PROFILE STA 298+75 TO STA 300+60
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	08/28/14	REVISED DITCH LT. SIDE

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY

11/2/17

5'
5'

11/2/2017
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X36

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	DAM	11/02/17	REV. PROFILE STA 298+75 TO STA 300+60
2	DAM	01/08/15	RELEASED FOR CONSTRUCTION
1	DAM	08/28/14	REVISED DITCH LT. SIDE

11/2/2017
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X37

S.C. RTE. 41 / S–33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2	DAM	11/02/17	REV. PROFILE STA 298+75 TO STA 300+60
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA
ICA ENGINEERING INC.
No. 0643
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
11/2/17

11/2/2017
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X1-X37_SC41_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X38

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
ICA ENGINEERING INC.
No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
1/8/15

5'
5'

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X38-X39_SC41_crosslines_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X39

S.C. RTE. 41/S-33 RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect1\FX\X38-X39_SC41_crosslines_FX.dgn

FED. RD. DIV. NO. | STATE | COUNTY | PROJECT ID | ROAD/ROUTE NO. | SHEET NO.
3 | S.C. | BERKELEY CHARLESTON | 0032098 | S.C. 41 | X40
S.C. RTE. 41 N RELOC.
NEW R/W
PRES. R/W
0.040 FT./FT.
0.026 FT./FT.
0 FT./FT.
8.17
6.50
4.10
12+50.00
8.47
6.58
4.25
12+00.00
8.80
6.52
4.40
11+50.00
BEGIN MAX S.E.
STA.11+27.42
8.96
6.79
4.65
11+00.00
BEGIN S.E.LT.& RT.
STA.10+50.00
8.93
7.09
MATCH LINE INTERSECTION
10+50.00
SURVEY STA. 10+28.94 BEGIN CONST.
S.C. ROUTE 41 N RELOC.
1 | DAM | 01/08/15 | RELEASED FOR CONSTRUCTION
REV. NO. | BY | DATE | DESCRIPTION OF REVISION
SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY
1/8/2015
L:\1315001 - SC 41 over Wondo River\X-Sect\FX\X40-X42_SC41REV_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X41

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X40-X42_SC41REV_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X42

S.C. RTE. 41 N RELOC.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA
ICA ENGINEERING INC. No. 0643
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X40-X42_SC41REV_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X43

ACCESS ROAD 1

SURVEY STA. 10+33.48 BEGIN CONST.
ACCESS ROAD 1

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X43-X45_ACCESS1_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X44

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X43-X45_ACCESS1_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X45

ACCESS ROAD 1

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA ICA ENGINEERING INC. No. 0643 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015
L:\1315001 - SC 41 over Wondo River\X-Sect\FX\X43-X45_ACCESS1_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X46

ACCESS ROAD 1

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 1/8/15

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X46_ACCESS1_crosslines_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X47

TRACT 7 DRIVE

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2	DAM	03/24/17	REVISED TRACT 7 DRIVE PROFILE
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA
ICA ENGINEERING INC. No. 0643
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 17997
DAVID A. MONTGOMERY
5/24/17

3/24/2017
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X47_TRACT 7_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X48

TRACT 7 DRIVE

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
ICA ENGINEERING INC.
No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
DAVID A. MONTGOMERY
No. 17997
1/8/15

1/8/2015
L:\1315001 - SC 41 over Wondo River\X-Sect\FX\X48_TRACT 7_crosslines_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X49

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	01/08/15	RELEASED FOR CONSTRUCTION

1/8/2015
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X49_ACCESS2_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X50

TRACT 10 DRIVE

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	09/30/16	ADDED TRACT 10 CROSS SECTIONS

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY 9/30/16

9/30/2016
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X50_TRACT10_FX.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	BERKELEY CHARLESTON	0032098	S.C. 41	X51

CELL TOWER DRIVE

— CONSTRUCTION CHANGE —
SHEET PROVIDED AFTER LETTING

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	DAM	05/25/17	ADDED CELL TOWER DRIVE X-SECTIONS

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ICA ENGINEERING INC. No. 0643

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17997 DAVID A. MONTGOMERY

5/25/17

5'
5'

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

5/25/2017
L:\1315001 - SC 41 over Wando River\X-Sect\FX\X51_Cell Tower Drive_FX.dgn