

INDEX OF SHEETS

SHEET NO.	DESCRIPTION OF SHEETS	SHEET SUB-TOTALS
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2	QUANTITY SHEET	1
3-3A	TYPICAL SECTION SHEETS	2
4	RIGHT OF WAY DATA SHEET	1
5	REFERENCE SHEETS	1
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EC1 - EC4	EROSION CONTROL SHEETS	4
X1-X3	CROSS SECTION SHEETS	3
TOTAL		17

CHESTERFIELD COUNTY

PROPOSED PLANS FOR CHESTERFIELD COUNTY ELIZABETH STREET FROM: RD. S-134 (ARANT RD.) TO: TERMINI

ELIZABETH STREET
FROM STA. 10+11.00 TO STA. 27+65.11

END
BEGIN



TOWN OF PAGELAND

LAYOUT

SCALE 1 INCH = 1320 FEET

NET LENGTH OF ROADWAY	0.332	MILES
NET LENGTH OF BRIDGES		MILES
NET LENGTH OF PROJECT	0.332	MILES
LENGTH OF EXCEPTIONS		MILES
GROSS LENGTH OF PROJECT	0.332	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.

Johnson, Mirmiran & Thompson (JML)

ENVIRONMENTAL PERMIT INFORMATION			
USACE PERMIT	___YES	<input checked="" type="checkbox"/> NO	
NEPA DOCUMENT	___YES	<input checked="" type="checkbox"/> NO	
401 CERTIFICATION	___YES	<input checked="" type="checkbox"/> NO	
OCRM CAP	___YES	<input checked="" type="checkbox"/> NO	
NAVIGABLE WATERS	___SC	___USCG	___USACE <input checked="" type="checkbox"/> N/A

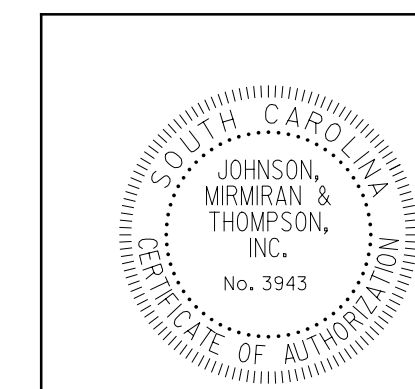
3 DAYS BEFORE DIGGING IN
SOUTH CAROLINA
CALL 811
SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT?
YES / NO

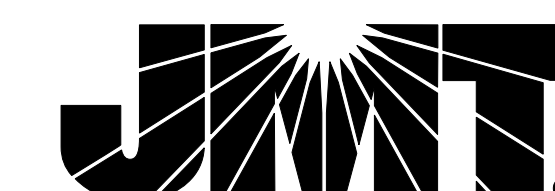
TRAFFIC DATA
N/A ADT _____
ADT _____
TRUCKS _____%

NPDES PERMIT INFORMATION	
NPDES Disturbed Area = <u>0.800</u> Acre(s)	
Approximate Location of Roadway is	
Begin	
Latitude	<u>34°46'20.43"</u>
Longitude	<u>80°24'37.18"</u>
End	
Latitude	<u>34°46'26.98"</u>
Longitude	<u>80°24'17.59"</u>
Hydraulic and NPDES Design provided by: <u>Johnson, Mirmiran & Thompson</u> Designs may be obtained from the	

Hydraulic Design Reference for these plans is the:
2009
Edition of SCDOT's "Requirements for Hydraulic Design Studies"



PLANS PREPARED BY: 3600 FOREST DRIVE
SUITE 102
COLUMBIA, SC 29204
(803) 626-1747



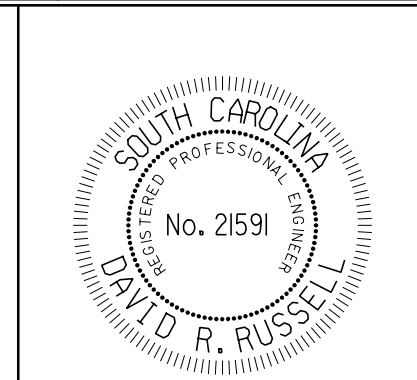
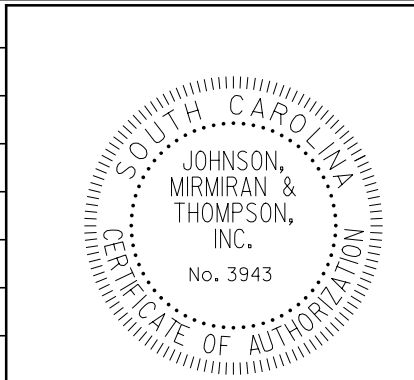
CHESTERFIELD COUNTY SUMMARY OF ESTIMATED QUANTITIES

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID		NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-002			2

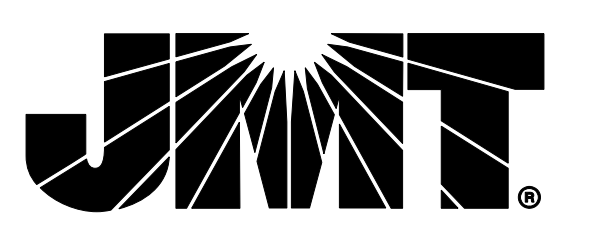
ELIZABETH ST.

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT	ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
				1031000	MOBILIZATION	1.000	L.S.
				1071000	TRAFFIC CONTROL	1.000	L.S.
				2011000	CLEARING AND GRUBBING WITHIN RIGHT OF WAY	1.000	L.S.
				2023000	REMOVAL AND DISPOSAL OF EXISTING PAVEMENT	19.000	SY
				2031000	UNCLASSIFIED EXCAVATION	1298.000	CY
				2033000	BORROW EXCAVATION	76.000	CY
				3051200	MACADAM BASE COURSE (6" UNIFORM)	5580.000	SY
				3063306	CEMENT MODIFIED RECYCLED BASE (6" UNIFORM)	5580.000	SY
				3069900	MAINTENANCE STONE	100.000	TON
				4010005	PRIME COAT	1507.000	TON
				4030340	HOT MIX ASPHALT SURFACE COURSE TYPE C	415.000	GAL.
				4037220	DRIVEWAY PAVING -SURFACE TYPE C	70.000	TON
				6021120	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	96.000	SF
				6250025	24" WH SLD.LINE-PVT.EDGE-F.D.PNT	30.000	LF
				6271005	4" WH BRKLINE.THERMO-90 MIL	100.000	LF
				6510105	FLAT SHEET TYPE III, FIXED SIZE	18.000	SF
				6531210	U-SEC. POST FOR SIGN SUPP. 3P	24.000	LF
				7141112	15" RC PIPE CUL.-CLASS III	256.000	LF
				7141113	18" RC PIPE CUL.-CLASS III	84.000	LF
				7141114	24" RC PIPE CUL.-CLASS III	52.000	LF
				7192240	36" X 36" JUNCTION BOX	1.000	EA
				8041010	RIPRAP CLASS "A" DITCH CHECK RIPRAP	160.000	TON
				8041020	RIPRAP CLASS "B"	24.000	TON
				8042800	GEO/TEX. FOR EROSION CONTROL UNDER RIPRAP (CLASS 2)	30.000	SY
				8071000	RESET FENCE	30.000	LF
				8100001	PERMANENT VEGATATION	4.177	MSY
				8103100	TEMPORARY VEGATATION	2.090	MSY
				8151150	TEMP. EROSION CONTROL BLANKET	1240.000	SY
				8152007	SEDIMENT TUBES FOR DITCH CHECKS	40.000	LF
				8153000	SILT FENCE	3310.000	LF
				8153090	REPLACE/REPAIR SILT FENCE	331.000	LF
				8154050	REM./SILT RETAIN BY SILT FENCE	828.000	LF
				8156490	STABILIZED CONSTRUCTION ENTRANCE	550.000	SY

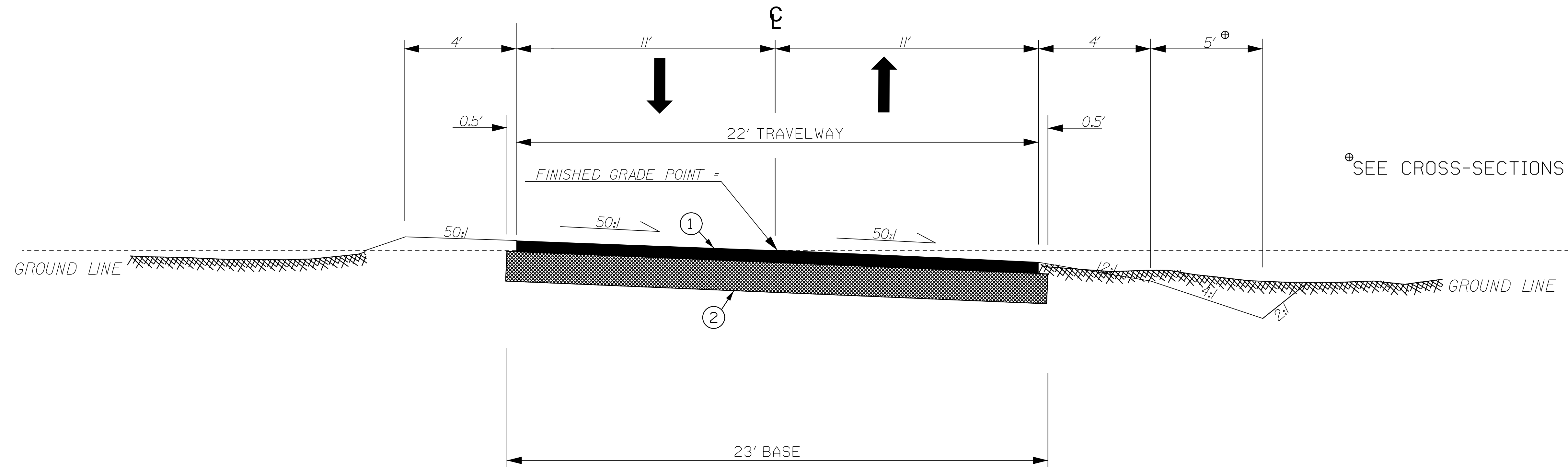
KMarpe
Projects\2021\21-04464-002\JMT\Highway and Civil\2D Drawing\OPENRD_ELIZABETH_OS.DGN
5/10/2023



PLANS PREPARED BY: 3600 FOREST DRIVE
SUITE 102
COLUMBIA, SC 29204
(803) 626-1747



TYPICAL SECTION OF IMPROVEMENT CHESTERFIELD COUNTY



SEE CROSS-SECTIONS

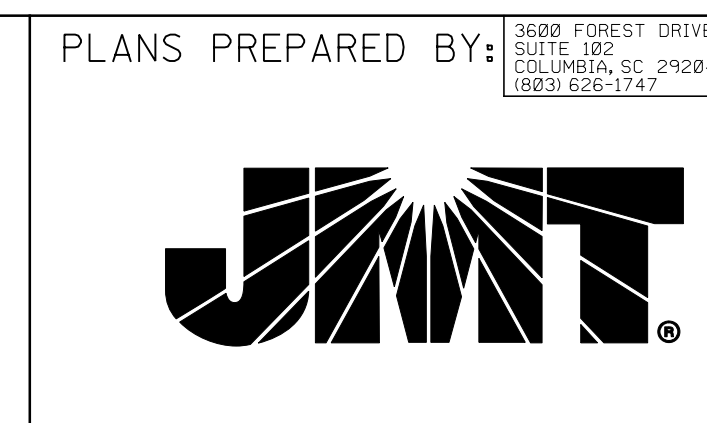
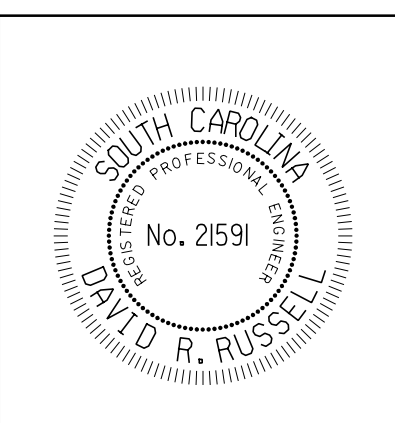
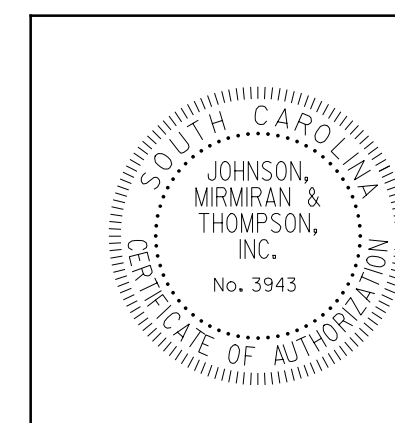
USE THIS SECTION ON ELIZABETH STREET
STA. 10+11.00 TO STA. 24+00.00

- ① HOT MIX ASPHALT SURFACE COURSE TYPE C 175 PSY
- ② *ALT. NO. 1 CEMENT MODIFIED RECYLCED BASE (6" UNIFORM)
ALT. NO. 2 MACADAM BASE (6" UNIFORM)

*NOTE: IF CEMENT MODIFIED RECYLCED BASE IS USED ADD A LEVELING LIFT OF ASPHALT SURFACE COURSE TYPE E @ 45 PSY

Road group designation for this FAS Rural Route or State "C" Road per EDM PC-3 is
Group 1

DETERMINATION OF SOIL CEMENT	
MOISTURE-DENSITY RELATIONS OF SOIL-CEMENT MIXTURES (AASHTO T-134)	
PERCENTAGE OF CEMENT USED	4 %
OPTIMUM MOISTURE CONTENT	9.8 %
METHOD OF MAKING, CURING AND TESTING OF SOIL-CEMENT COMPRESSION SPECIMENS (SC-T-38)	
MAXIMUM DRY DENSITY	124.7 per cubic foot
SOIL CEMENT APPLICATION RATE AT 4 % AT 175 lbs/sq.yd AT 6 in DEPTH	

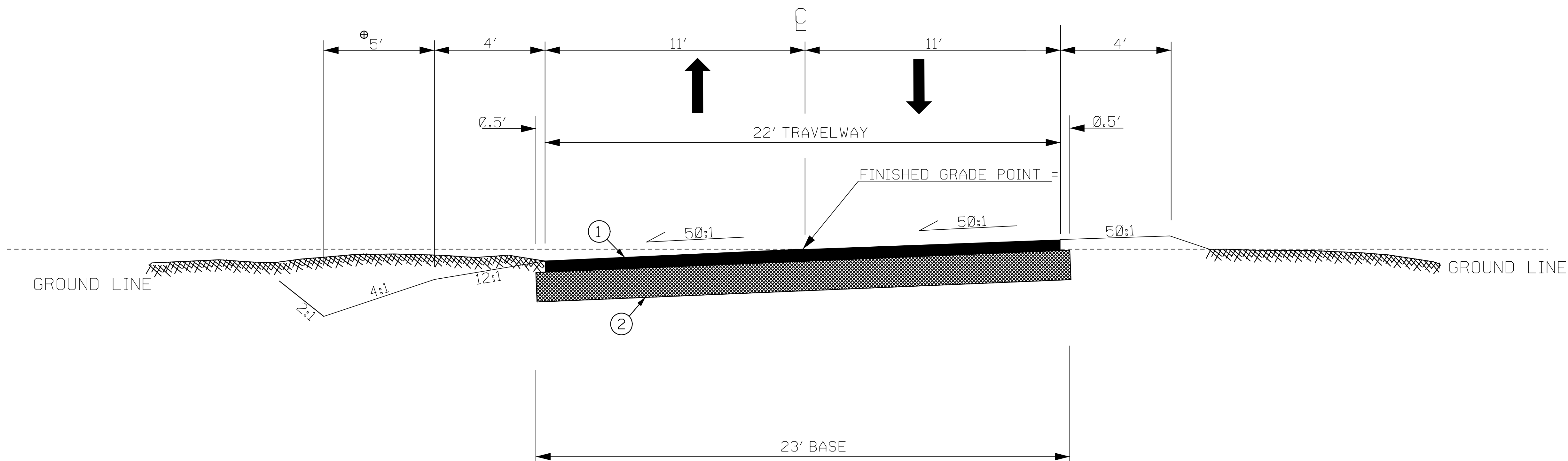


MPH	ELIZABETH ST. DESIGN SPEED	
	FROM STA.	TO STA.
30	10+11.00	24+00.00
EXCEPTIONS TO DESIGN SPEED		

ROAD DESIGN	CHESTERFIELD	COUNTY
TYPICAL SECTION		
SCALE 1"V=NTS SCALE 1"=NTS RTE./RD.		

TYPICAL SECTION OF IMPROVEMENT CHESTERFIELD COUNTY

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464	ELIZABETH STREET	3A



SEE CROSS-SECTIONS [⊕]

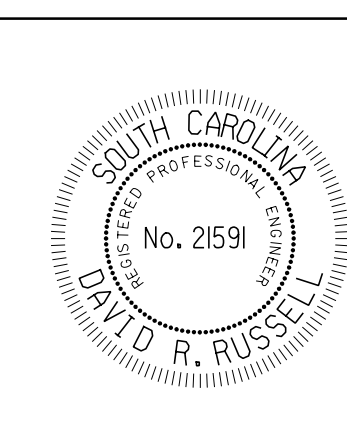
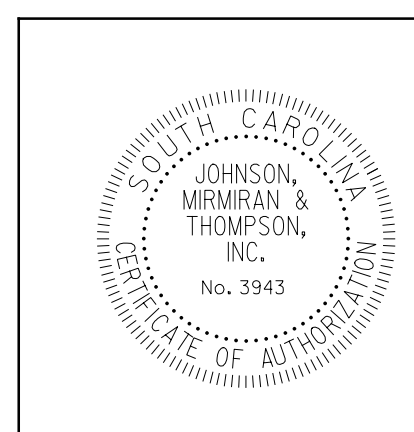
USE THIS SECTION ON ELIZABETH STREET
STA. 24+00.00 TO STA. 27+65.11

- ① HOT MIX ASPHALT SURFACE COURSE TYPE C 175 PSY
- ② *ALT. NO. 1 CEMENT MODIFIED RECYLCED BASE (6" UNIFORM)
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for this FAS Rural Route
or State "C" Road
per EDM PC-3 is
Group 1

DETERMINATION OF SOIL CEMENT	
MOISTURE-DENSITY RELATIONS OF SOIL-CEMENT MIXTURES (AASHTO T-134)	
PERCENTAGE OF CEMENT USED	4 %
OPTIMUM MOISTURE CONTENT	9.8 %
METHOD OF MAKING, CURING AND TESTING OF SOIL-CEMENT COMPRESSION SPECIMENS (SC-T-38)	
MAXIMUM DRY DENSITY	124.7 per cubic foot
SOIL CEMENT APPLICATION RATE AT 4 % AT 175 lbs/sq.yd AT 6 in DEPTH	



PLANS PREPARED BY:



MPH	ELIZABETH ST. DESIGN SPEED	
	FROM STA.	TO STA.
30	24+00.00	27+65.11
EXCEPTIONS TO DESIGN SPEED		

ROAD DESIGN CHESTERFIELD COUNTY

TYPICAL SECTION

SCALE 1"V=NTS SCALE 1"=NTS RTE./RD.

CHESTERFIELD COUNTY RIGHT-OF-WAY DATA SHEET

FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464		4

ELIZABETH STREET

TRACT NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES	OBTAIN ^A			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
				OUTFALL DITCH ACRES	LEFT	RIGHT										
1	RUSSELL CHAPMAN & TONYA CHAPMAN	020-000-000-130	0.52													
2	JUAN T. PERALTA	020-000-000-131	0.46													
3	RICHARD F. MILLER & DOROTHY J. MILLER	020-000-000-132	0.46													
4	BRIANNA LOWDER & MASON LOWDER	020-000-000-133	0.46													
5	JEREMY D. DUNLAP & SHAKIKA L. DUNLAP	020-000-000-134	0.46													
6	TAYAH HANCOCK	020-000-000-135	0.46													
7	CARMEN HERNANDEZ & MARIA HERNANDEZ	020-008-001-018	0.46													
8	JLJ SERVICES LLC	020-008-001-017	0.46													
9	TWANNA BLAKENEY	020-008-001-016	0.46													
10	TWANNA BLAKENEY	020-008-001-015	0.46													
11	MARQUITA BLAKENEY	020-008-001-014	0.46													
12	PAULETTE LANEY & ROGER LANEY	020-008-001-013	0.46													
13	ROGER LANEY BLAKENEY & PAULETTE LANEY	020-008-001-012	0.46													
15	CHUCKY ROBINSON & REGINA ROBINSON	031-001-009-006	0.92													
16	RALPHEAS D. BLAKENEY & TIA J. RATLIFF	031-001-009-005	0.46													
17	DAMIAN JAMAAL RATLIFF	031-001-009-004	1.12													
18	RALPHEAS D. BLAKENEY & TIA J. RATLIFF	031-001-009-008	1.51													
19	RALPHEAS D. BLAKENEY & TIA J. RATLIFF	031-001-009-003	0.60													
20	MONICA BLAKENEY & MARTY BLAKENEY	031-001-009-007	0.61													
21	JERAN MILLER	031-001-009-002	0.58													
22	KIRKLEY W. O'NEIL & PAULA V. O'NEIL	031-001-009-001	0.95													
23	DALTON KYLE PRICE & LUISA R. PRICE	020-008-001-009	0.64													
24	DALTON KYLE PRICE & LUISA R. PRICE	020-008-001-009	0.65													
25	SYDELLE L. BROWN	020-008-001-008	0.70													
26	ADRIAN JOCK WILLIAMS & PATRA WILLIAMS	020-008-001-007	0.66													
27	CASTILLO JUAN ALEJANDRO & MERCEDES ALEJANDRO	020-008-001-006	0.667													
28	JLJ SERVICES LLC	020-008-001-005	0.67													
29	TRIONDA S. MUNGO	020-008-001-004	0.46													
30	JESSICA MCBRIDE	020-000-000-129	0.46													
31	CAROLYN CREDLE	020-000-000-128	0.46													
32	MICHELLE BALLARD	020-000-000-127	0.46													
33	DAVID MARTINEZ	020-000-000-126	0.55								YES					

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 RURAL 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.

REVISIONS					
DATE	TRACT NO.	REMARKS	DATE	TRACT NO.	REMARKS

K:\Marpe\Projects\2021\21-04464-002\JMT\Highway and Civil\2D Drawing\OPENRD_ELIZABETH_RW.dgn 5/9/2023

Chain ELIZABETH contains:
200 CUR ELIZABETH1 CUR ELIZABETH2 201

Beginning chain ELIZABETH description

Point 200 N 1,069,870.4303 E 2,177,084.8687 Sta 10+00.00

Course from 200 to PC ELIZABETH1 N 50° 57' 08.81" E Dist 4.0465

Curve Data
x-----x

Curve ELIZABETH1
P.I. Station = 10+42.85 N 1,069,897.4244 E 2,177,118.1471
Delta = 17° 38' 43.66" (RT)
Degree = 22° 55' 05.92"
Tangent = 38.8036
Length = 76.9929
Radius = 250.0000
External = 2.9935
Long Chord = 76.6889
Mid. Ord. = 2.9581
P.C. Station = 10+04.05 N 1,069,872.9794 E 2,177,088.0113
P.T. Station = 10+81.04 N 1,069,911.5842 E 2,177,154.2749
C.C. = N 1,069,678.8236 E 2,177,245.5026
Back = N 50° 57' 08.81" E
Ahead = N 68° 35' 52.47" E
Chord Bear = N 59° 46' 30.64" E

Course from PT ELIZABETH1 to PC ELIZABETH2 N 68° 35' 52.47" E Dist 1,176.4950

Curve Data
x-----x

Curve ELIZABETH2
P.I. Station = 22+60.75 N 1,070,342.0750 E 2,178,252.6400
Delta = 1° 05' 07.14" (LT)
Degree = 16° 51' 06.12"
Tangent = 3.2203
Length = 6.4404
Radius = 340.0000
External = 0.0153
Long Chord = 6.4403
Mid. Ord. = 0.0152
P.C. Station = 22+57.53 N 1,070,340.8999 E 2,178,249.6417
P.T. Station = 22+63.97 N 1,070,343.3067 E 2,178,255.6154
C.C. = N 1,070,657.4543 E 2,178,125.5721
Back = N 68° 35' 52.47" E
Ahead = N 67° 30' 45.33" E
Chord Bear = N 68° 03' 18.90" E

Course from PT ELIZABETH2 to 201 N 67° 30' 45.33" E Dist 501.1312

Point 201 N 1,070,534.9796 E 2,178,718.6424 Sta 27+65.11

Ending chain ELIZABETH description

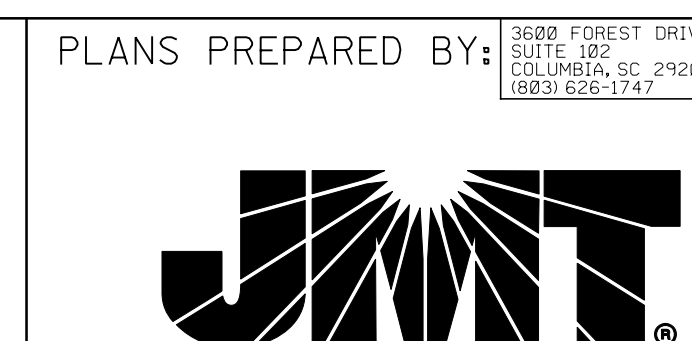
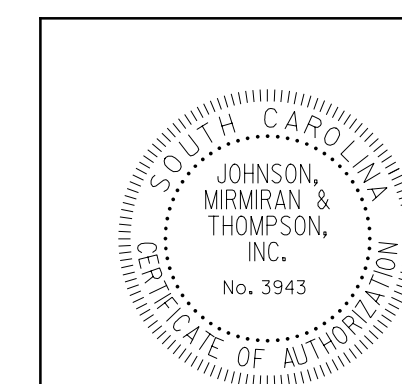
SURVEY GROUP:
ROAD/ROUTE: ELIZABETH STREET
PIN / PRJ ID: 21-04464-002
CHARGE CODE:
COUNTY: CHESTERFIELD

ALIGNMENT	NORTHING	EASTING	ELEV	DESC
1	1070531.663	2178646.703	637.073	PSC
1B	1070531.611	2178646.68	637.01	PSC
1C	1070531.621	2178646.71	636.95	PSC
1 E	1070531.680	2178646.70	637.04	PSC
2	1070295.68	2178186.28	640.35	PSC
2 E	1070295.713	2178186.27	640.38	PSC
3	1070103.373	2177592.27	622.47	PSC
3B	1070103.35	2177592.22	622.44	PSC
3C	1070103.316	2177592.26	622.45	PSC
3 E	1070103.38	2177592.28	622.47	PSC
4	1069828.071	2177091.46	621.73	PSC
4B	1069828.032	2177091.45	621.66	PSC
4C	1069828.039	2177091.43	621.63	PSC
4 E	1069828.065	2177091.45	621.75	PSC
50	1068254.091	2178285.71	665.73	PSC
50 E	1068254.063	2178285.74	665.73	PSC

CURVE DATA

CURVE ELIZABETH1
PI 10+42.85
N 1,069,897.4244
E 2,177,118.1471
~ 17° 38' 44" (RT)
D 22° 55' 06"
R 250.00
Lc 76.99
T 38.80
Superelevation = Remove Crown

CURVE ELIZABETH2
PI 22+60.75
N 1,070,342.0750
E 2,178,252.6400
~ 1° 05' 07" (LT)
D 16° 51' 06"
R 340.00
Lc 6.44
T 3.22
Superelevation = Remove Crown



CHESTERFIELD COUNTY
REFERENCE DATA

PID #020-000-000-134
JEREMY D DUNLAP &
SHAKIRA L DUNLAP
DEED BOOK 528 PAGE 730
PLAT BOOK 28 PAGE 197
LOT 5

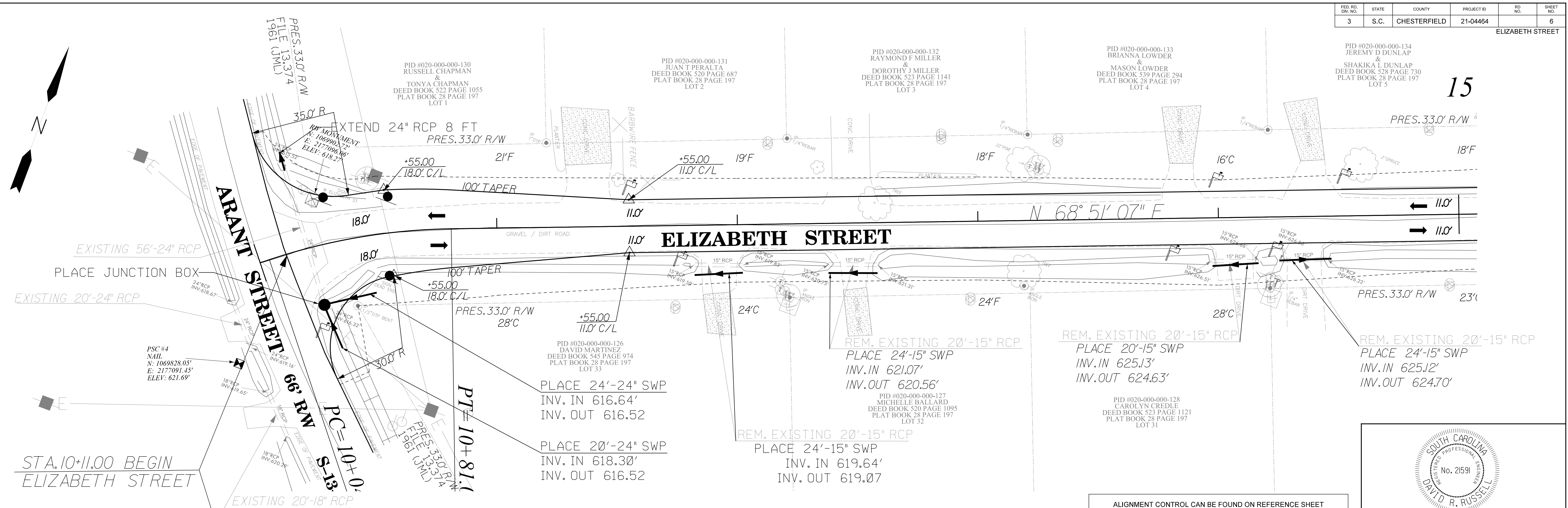
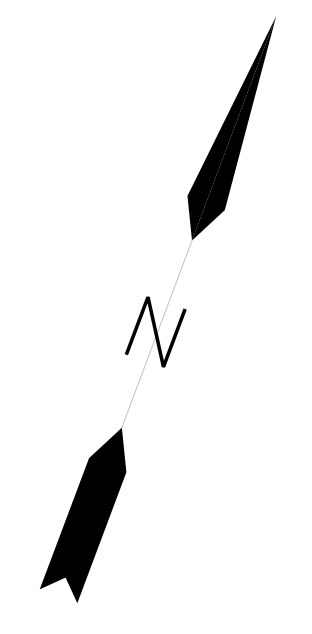
PID #020-000-000-133
BRIANNA LOWDER &
MASON LOWDER
DEED BOOK 539 PAGE 294
PLAT BOOK 28 PAGE 197
LOT 4

PID #020-000-000-132
RAYMOND F MILLER &
DOROTHY J MILLER
DEED BOOK 523 PAGE 1141
PLAT BOOK 28 PAGE 197
LOT 3

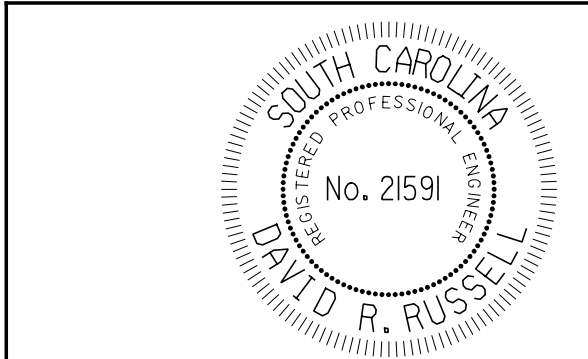
PID #020-000-000-131
JUAN T PERALTA
DEED BOOK 520 PAGE 687
PLAT BOOK 28 PAGE 197
LOT 2

PID #020-000-000-130
RUSSELL CHAPMAN &
TONYA CHAPMAN
DEED BOOK 522 PAGE 1055
PLAT BOOK 28 PAGE 197
LOT 1

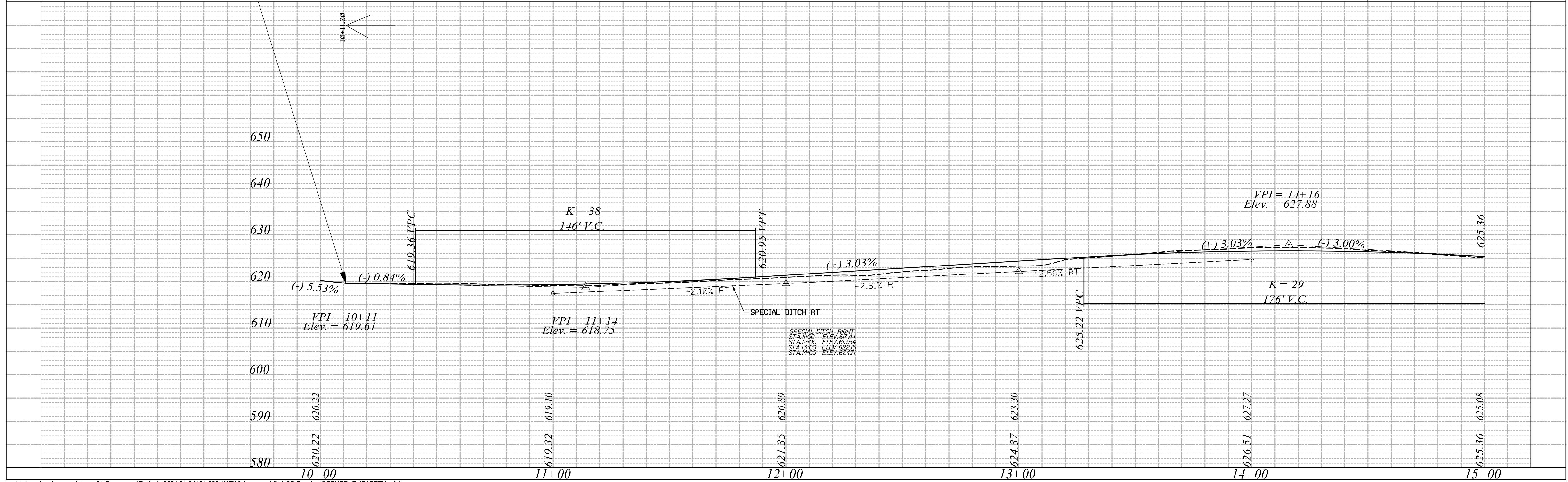
PRES. 33.0' R/W
FILE 13-374
1961 (JML)

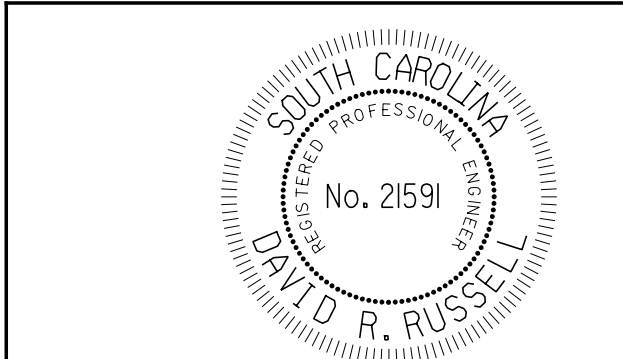
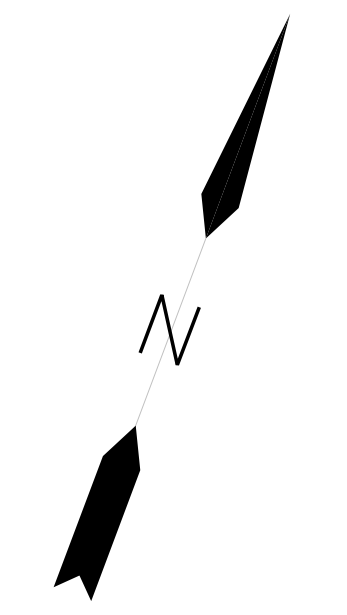
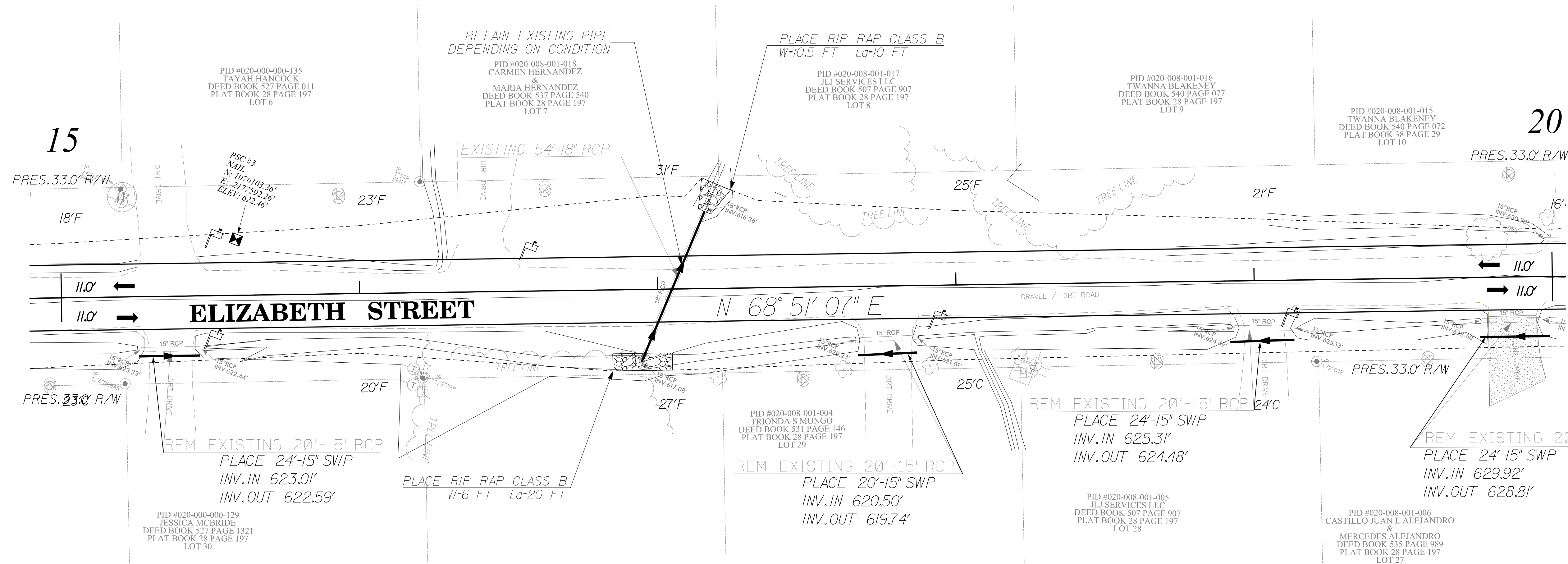


STA. 10+11.00 BEGIN
ELIZABETH STREET



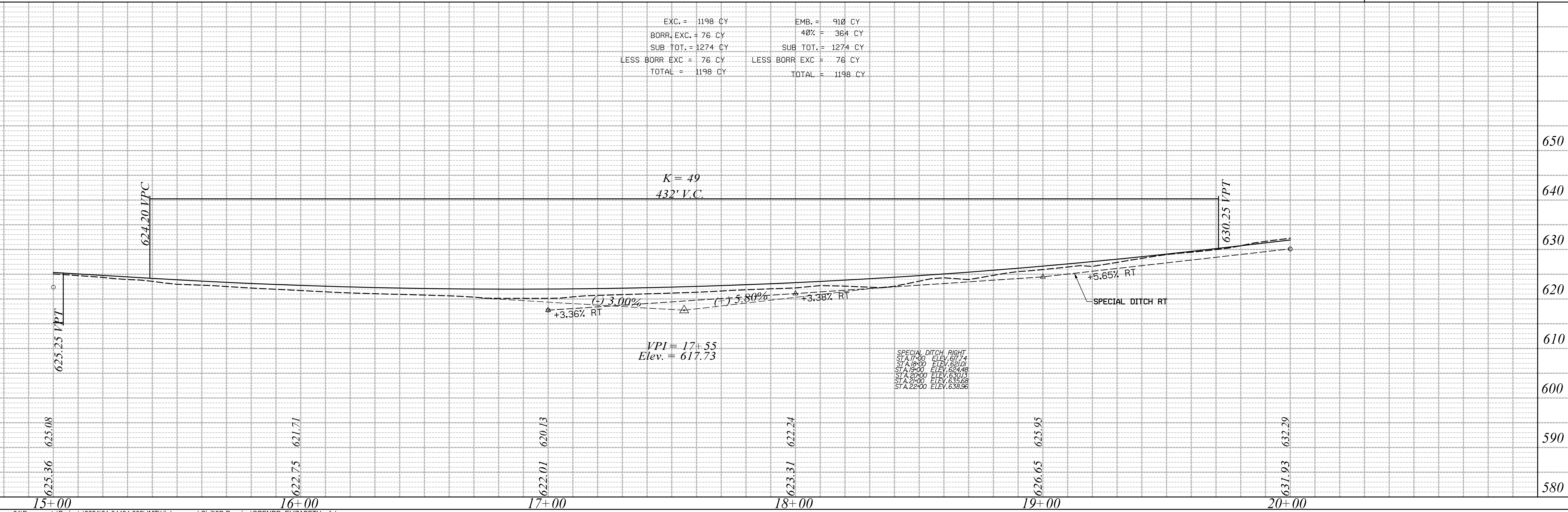
ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

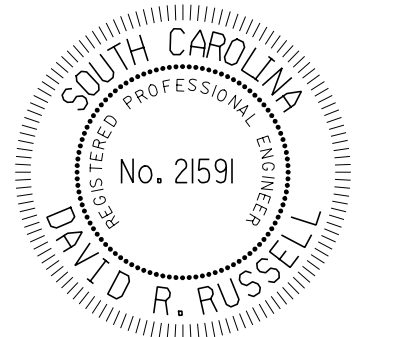
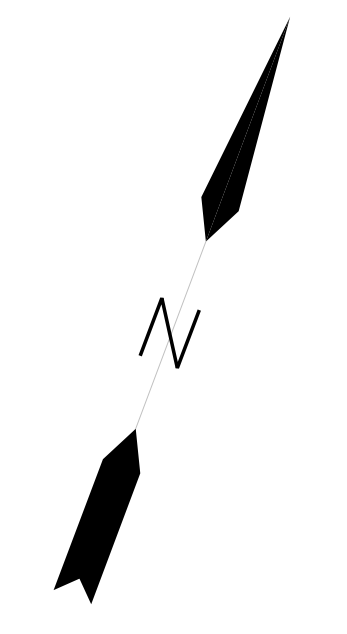
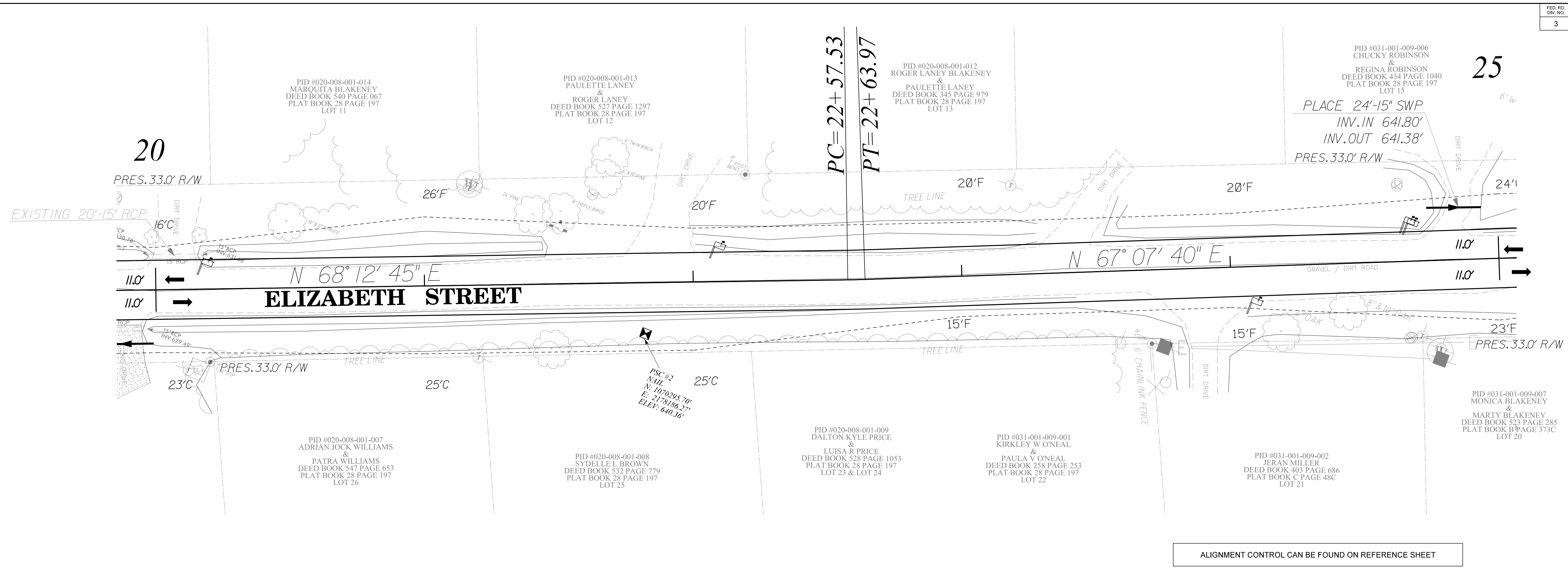




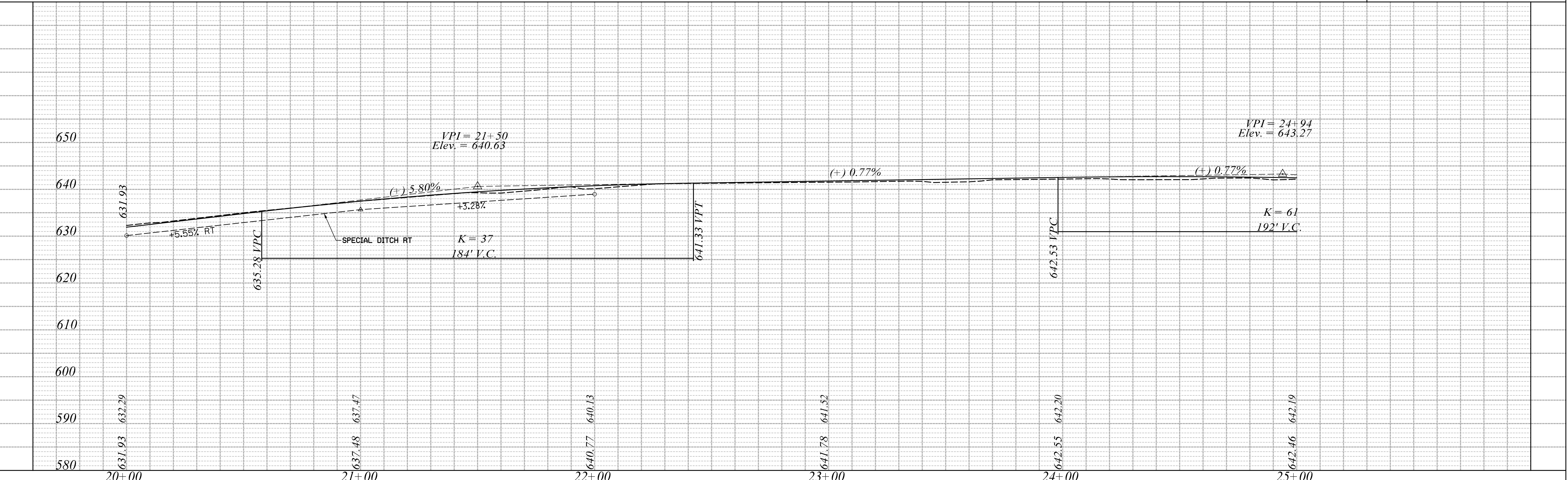
ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

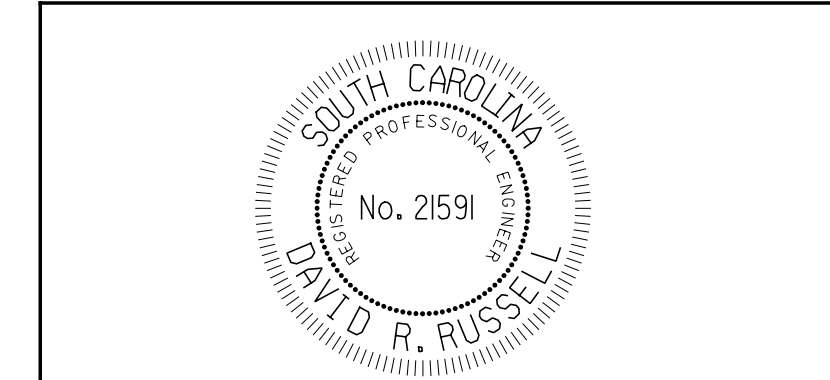
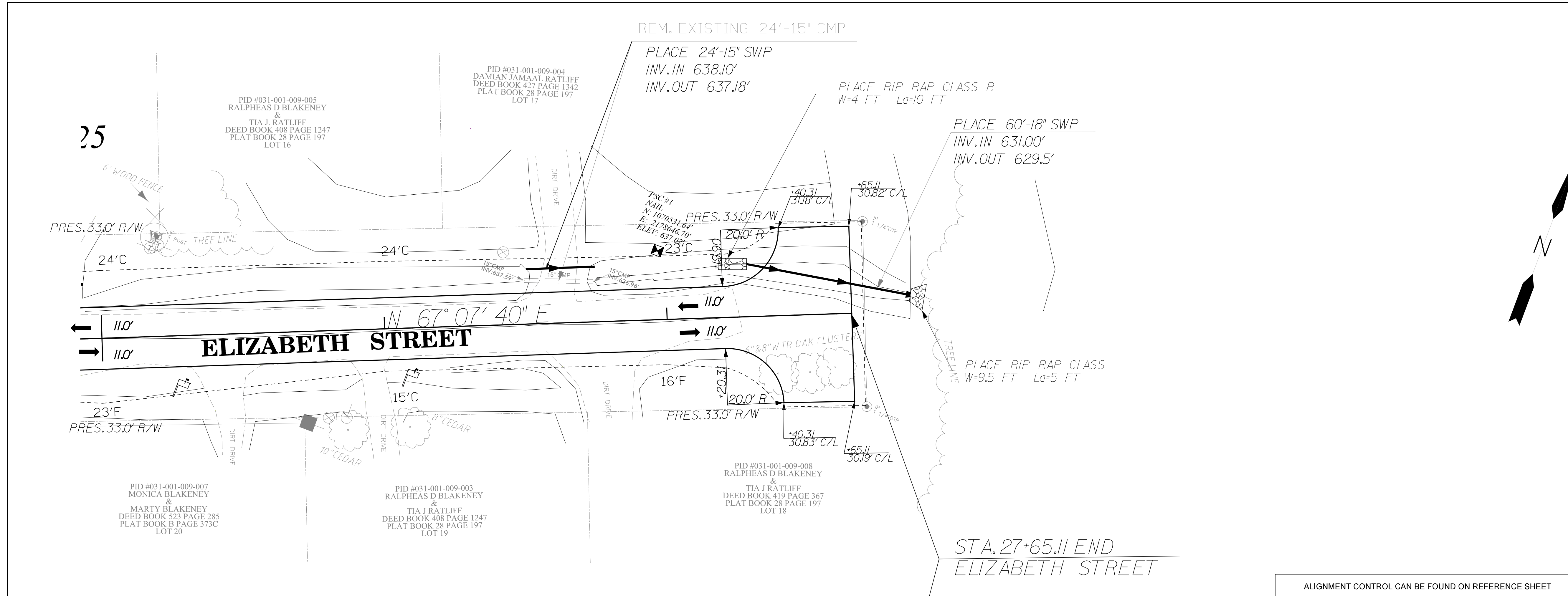
EXC. = 1198 CY	EMB. = 910 CY
BORR. EXC. = 76 CY	40% = 364 CY
SUB TOT. = 1274 CY	SUB TOT. = 1274 CY
LESS BORR EXC = 76 CY	LESS BORR EXC = 76 CY
TOTAL = 1198 CY	TOTAL = 1198 CY



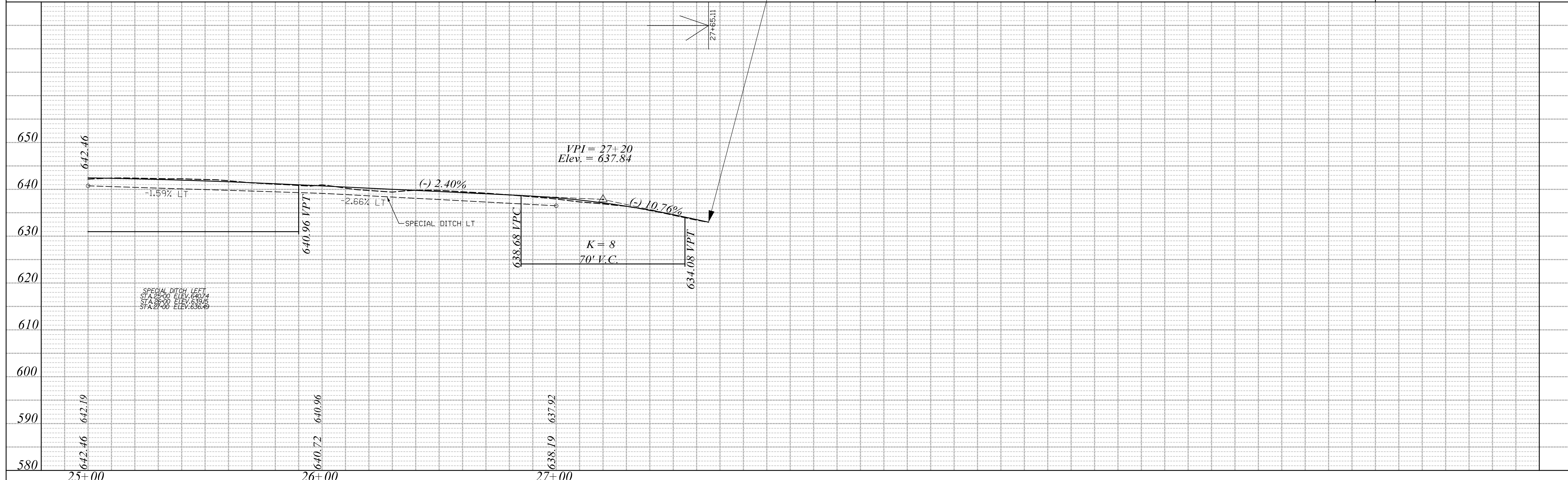


ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET



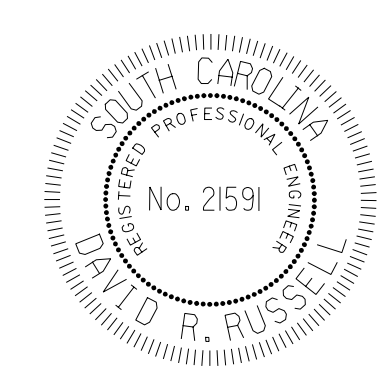
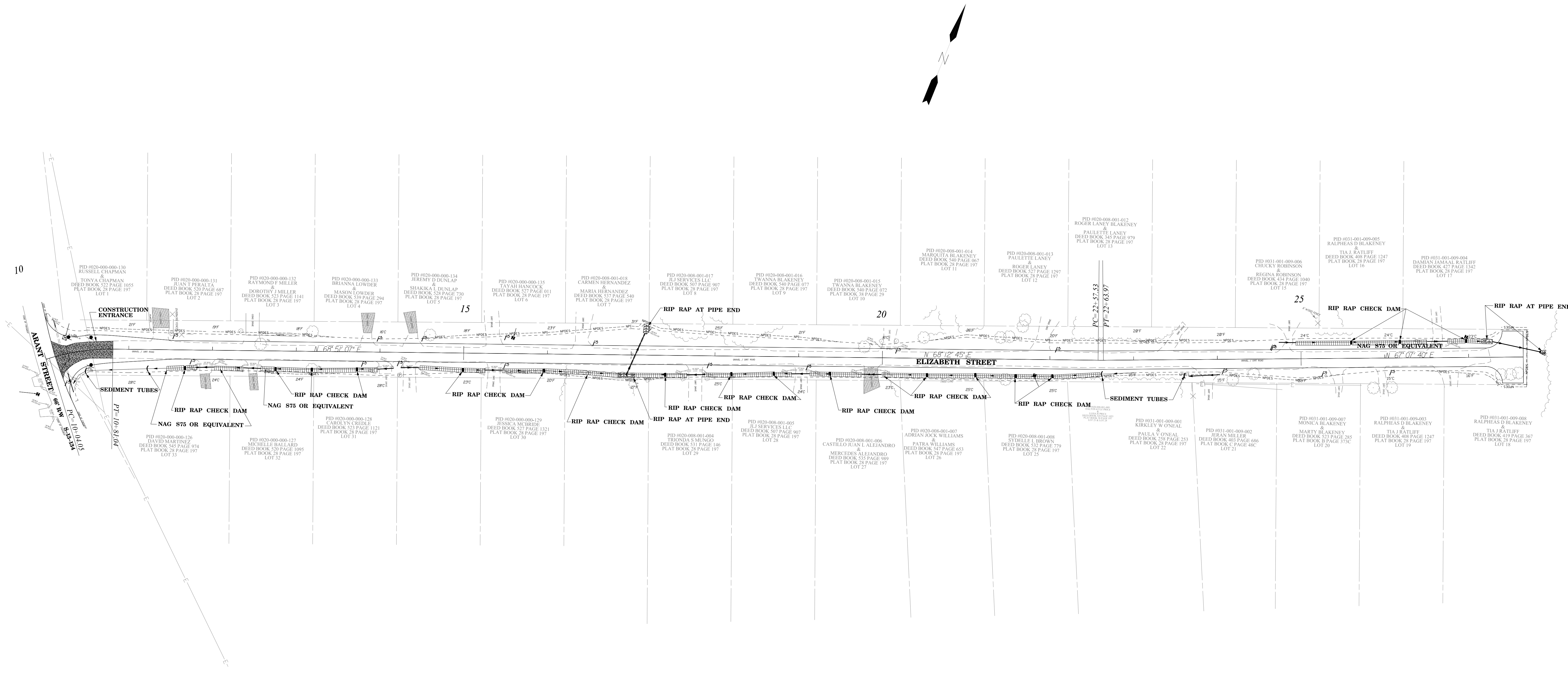
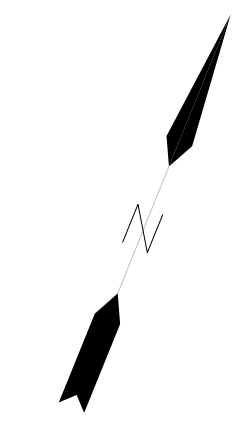


ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET



FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-002		EC-1

ELIZABETH STREET



4			
3			
2			
1			
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
TOPO.		DATE	
DGN.		DATE	RPG
R/W		DATE	

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
COLUMBIA, S.C.

*EROSION & SEDIMENTATION
CONTROL PLAN*

SCALE: 1" = 20' ROAD: ELIZABETH STREET

EROSION AND SEDIMENTATION CONTROL DETAILS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-002		EC-3

ELIZABETH STREET

PLAN SYMBOL

SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 1 of 2

FEBRUARY 2014 DATE

NOT TO SCALE

SILT FENCE INSTALLATION

PLAN SYMBOL

—SF —SF —

FLAT-BOTTOM TRENCH DETAIL

V-SHAPED TRENCH DETAIL

SILT FENCE - GENERAL NOTES

- Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
- Maximum sheet or overland flow path length to the silt fence shall be 100-feet.
- Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
- Silt fence joints, when necessary, shall be completed by one of the following options:
 - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap;
 - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties; or,
 - Overlap entire width of each silt fence roll from one support post to the next support post.
- Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
- Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
- Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 2

FEBRUARY 2014 DATE

NOT TO SCALE

SEDIMENT TUBE INSTALLATION

PLAN SYMBOL

SLOPE	MAX. SEDIMENT TUBE SPACING
LESS THAN 2%	150- FEET
2%	100- FEET
3%	75- FEET
4%	50- FEET
5%	40- FEET
6%	30- FEET
GREATER THAN 6%	25- FEET

South Carolina Department of Health and Environmental Control

SEDIMENT TUBES

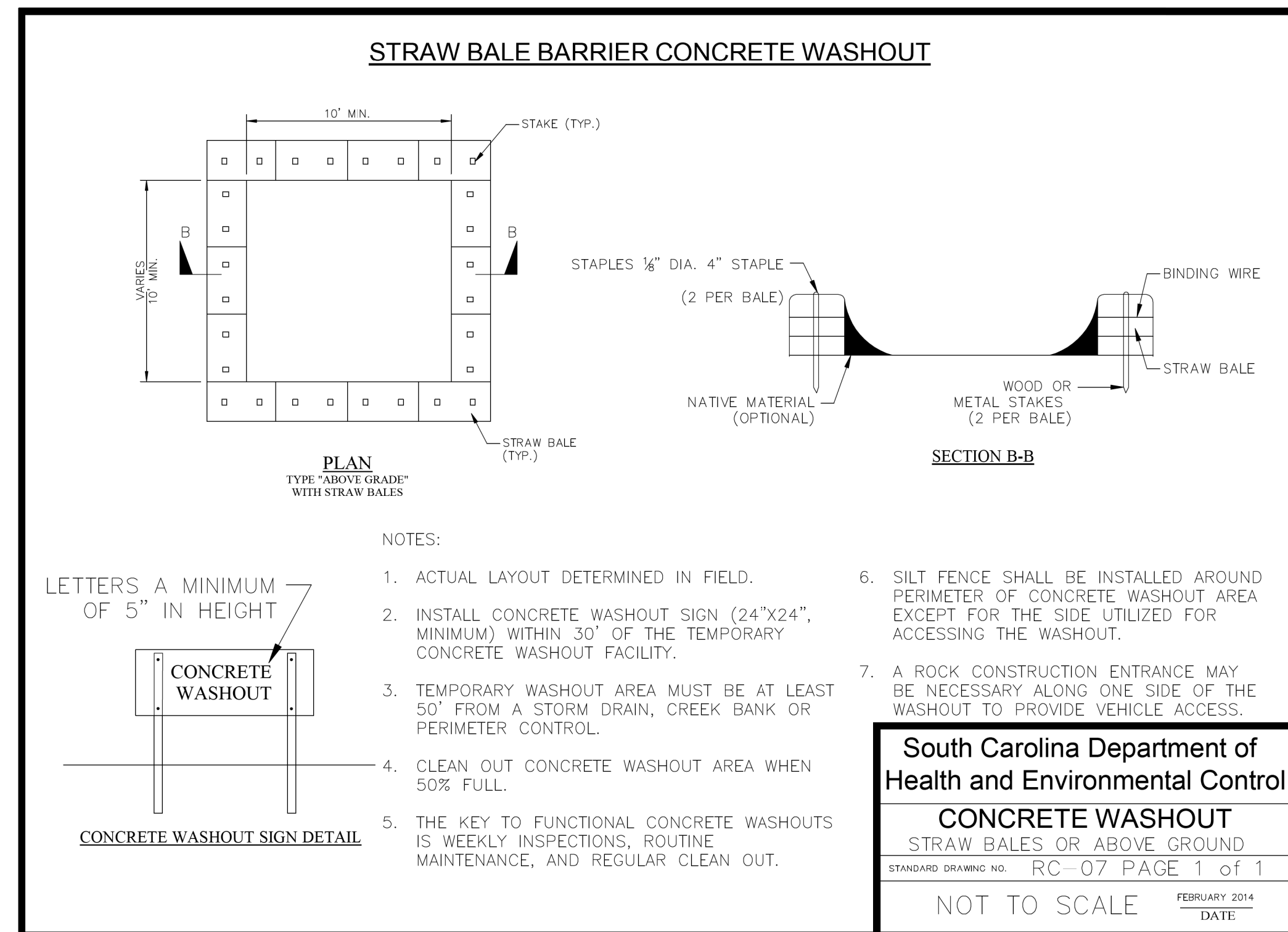
STANDARD DRAWING NO. SC-05 PAGE 1 of 2

FEBRUARY 2014 DATE

NOT TO SCALE

EROSION AND SEDIMENTATION CONTROL DETAILS

FED. RD. DIV. NO	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-002	ELIZABETH STREET	EC-4



South Carolina Department of Health and Environmental Control

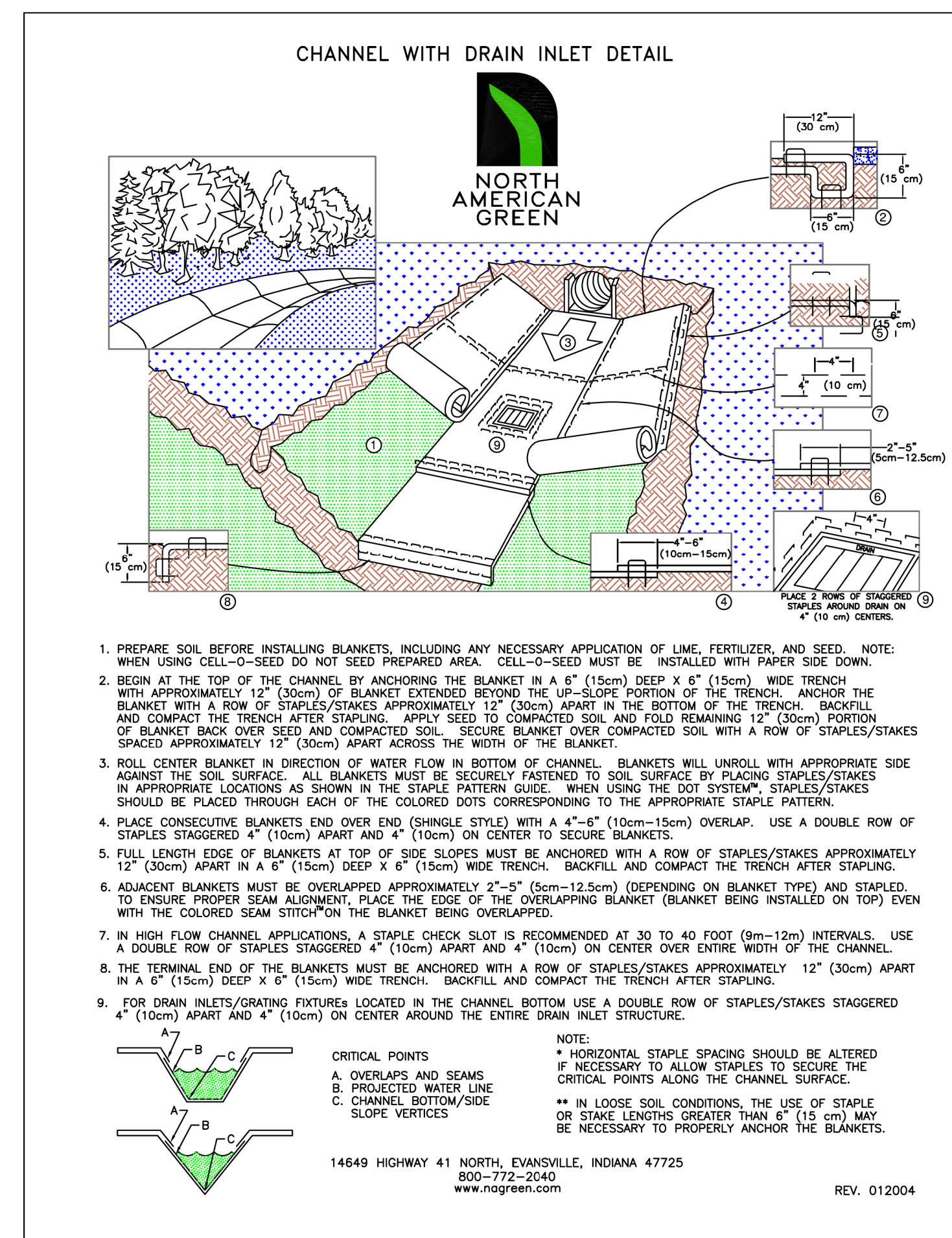
CONCRETE WASHOUT

STRAW BALES OR ABOVE GROUND

STANDARD DRAWING NO. RC-07 PAGE 1 of 1

FEBRUARY 2014 DATE

NOT TO SCALE



Permanent Seeding - Upstate

Species	Lbs/Ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bahia Grass (Alone)	40												
Bahia Grass (Mix)	30												
Bermuda Grass (hulled) (Alone)	8-12												
Bermuda Grass (hulled) (Mix)	4-6												
Fescue Tall (KY31) Alone	40												
Fescue Tall (KY31) mix	20												
Sericea Lespedeza (Scarified) Alone or Mix (inoculate with EL Inoculant)	40												
Ladino Clover (mix only) Inoculate with AB Inoculant	2												

For Steep Slopes/Cut Slopes

Weeping Lovegrass (Alone)	4												
Weeping Lovegrass (Mix)	2												
Crownvetch (Mix) (Inoculate with Type M Inoculant)	8-10												

NOTE: PER SC-DHEC PERMANENT SEEDING RATE TABLE FOR UPSTATE, NO PERMANENT SEEDING IS RECOMMENDED BETWEEN MID-DECEMBER AND MID-APRIL.

Temporary Seeding - Upstate

Species	Lbs/Ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Browntop Millet (Alone)	40												
Browntop Millet (Mix)	10												
Rye Grain (Alone)	56												
Rye Grain (Mix)	10												
Rye Grass (Alone)	50												
Rye Grass (Mix)	8												

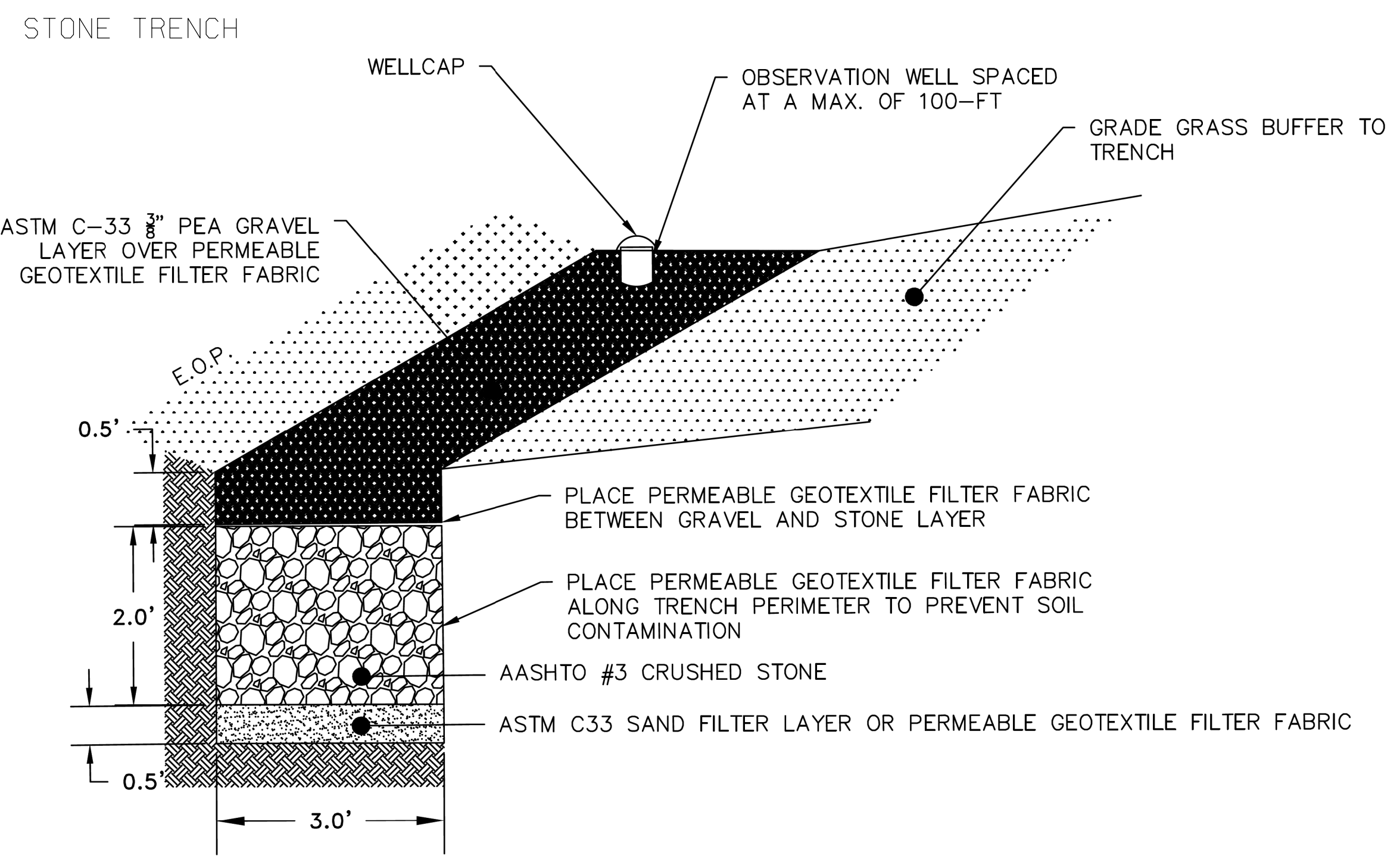
For Steep Slopes/Cut Slopes

Weeping Lovegrass (Alone)	4												
Weeping Lovegrass (Mix)	2												

PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL MINIMUM TAILWATER CONDITION:		PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL MAXIMUM TAILWATER CONDITION:	
PIPE INSIDE DIAMETER (D _i) (FT)	MAX PIPE SLOPE	OUTLET PROTECTION DIMENSIONS (3D _o (FT), L _o (FT), W (FT))	RIPRAP DEPTH (d) (FT)
1.5	≤ 1%	6, 10, 12	A, 1.5
1.5	2%	6, 14, 16	A, 1.5
1.5	5%	6, 19, 21	B, 2.7
2.0	≤ 1%	8, 14, 17	A, 1.5
2.0	2%	8, 19, 22	B, 2.7
2.0	5%	8, 26, 29	B, 2.7
2.5	≤ 1%	10, 18, 21	A, 1.5
2.5	2%	10, 25, 28	B, 2.7
2.5	5%	10, 34, 37	C, 3.6
3.0	≤ 1%	12, 24, 28	B, 2.7
3.0	2%	12, 32, 36	B, 2.7
3.0	5%	12, 42, 46	C, 3.6
3.5	≤ 1%	14, 28, 33	B, 2.7
3.5	2%	14, 37, 42	C, 3.6
3.5	5%	14, 48, 53	C, 3.6
4.0	≤ 1%	16, 33, 38	B, 2.7
4.0	2%	16, 43, 48	C, 3.6

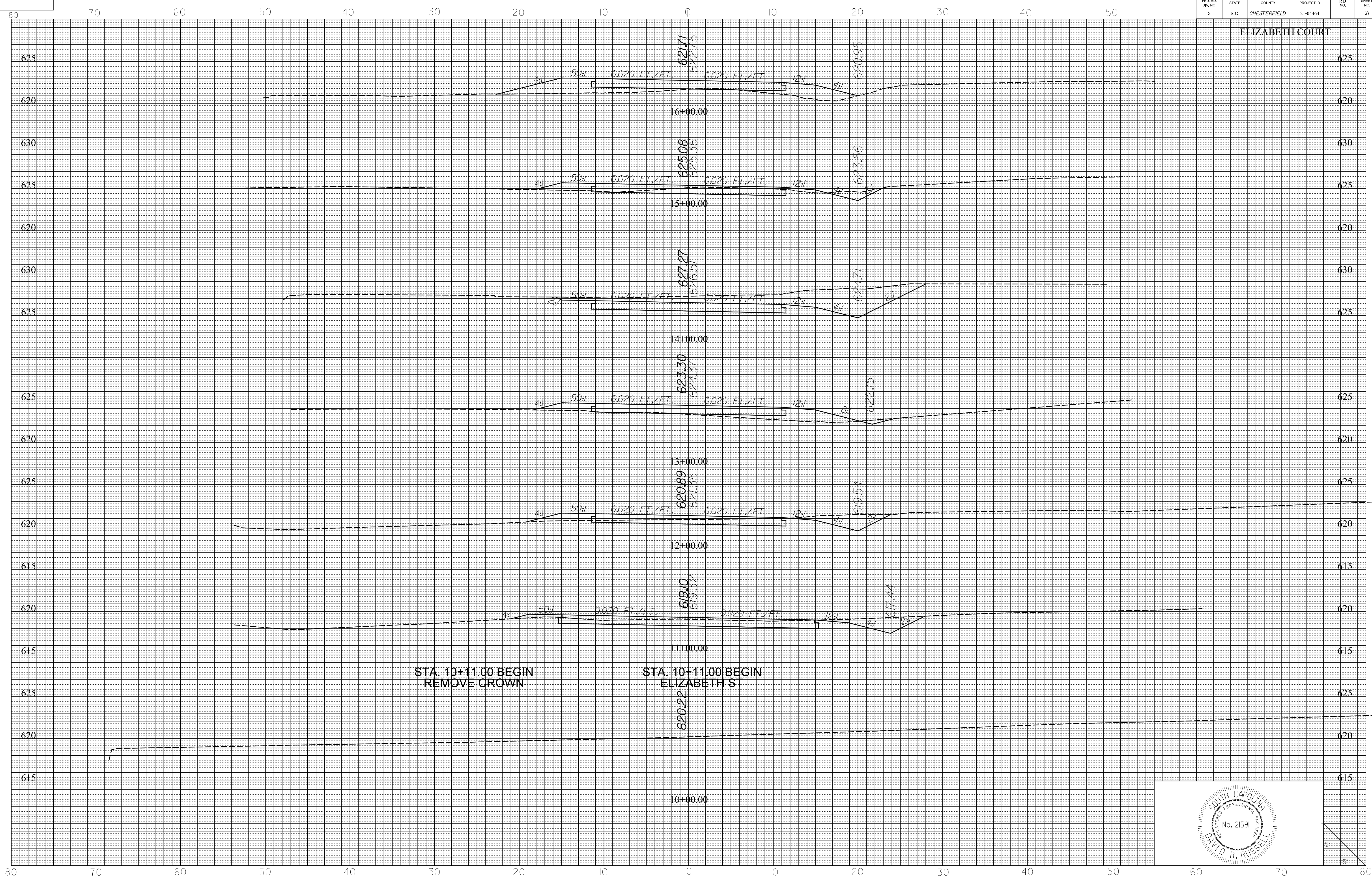
NOTES:

- THESE TABLES ARE ONLY APPLICABLE FOR THE PIPE SIZES AND MAXIMUM PIPE SLOPES LISTED.
- LARGER PIPES OR GREATER SLOPES REQUIRE ALTERNATIVE OUTLET PROTECTION DESIGN.
- WHEN PLANS SPECIFY LARGER OR DIFFERENT OUTLET PROTECTION THAN SHOWN IN TABLES, INSTALL OUTLET PROTECTION PER THE PLANS.
- SEE DRAWING # 804-305-02 FOR MORE INFORMATION ON OUTLET PROTECTION DIMENSIONS.

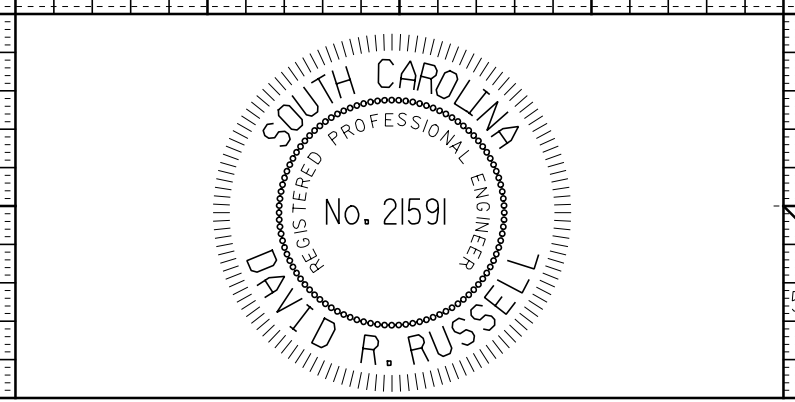


FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	R.D. NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464		XI

ELIZABETH COURT

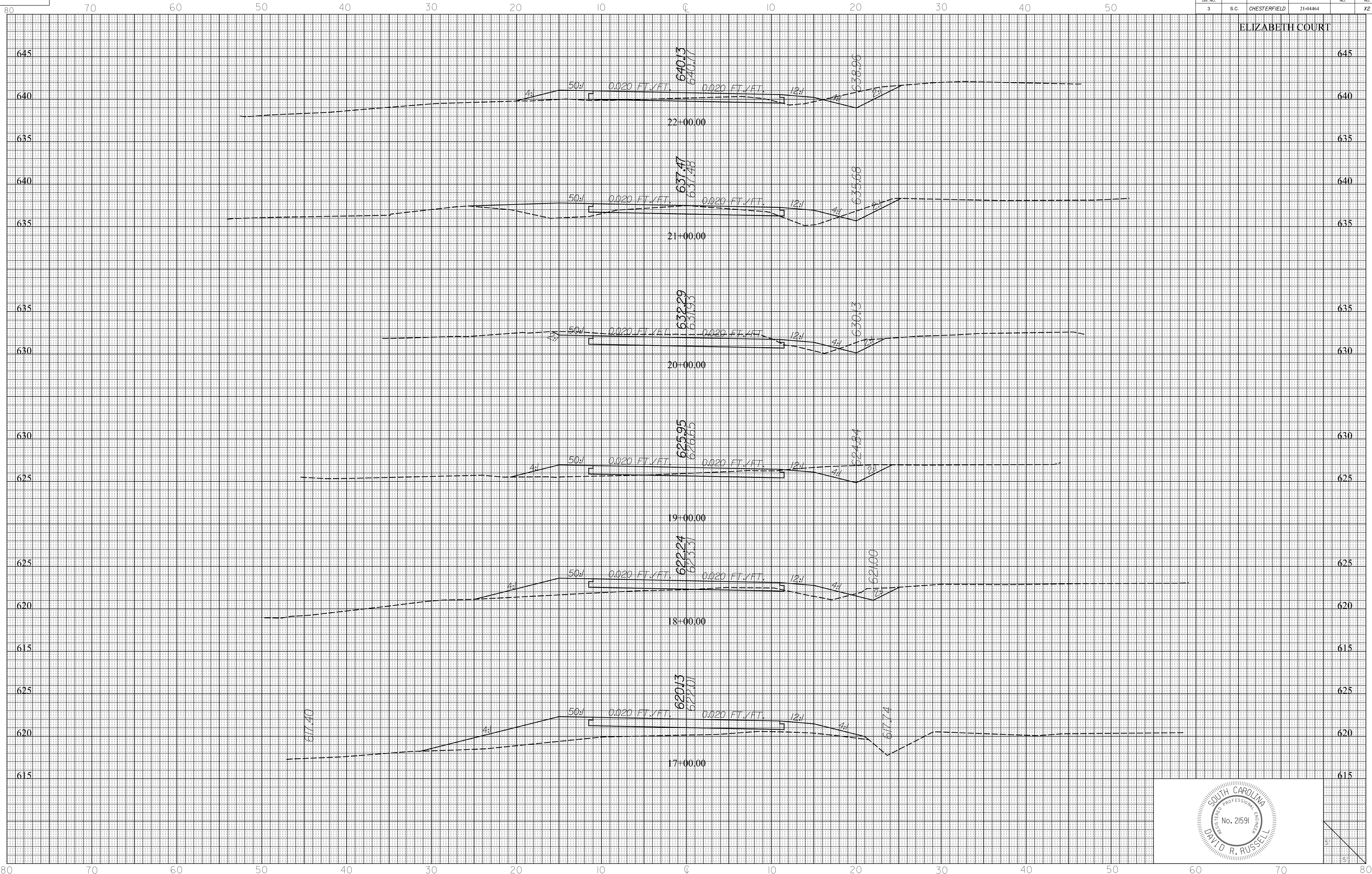


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 5/9/2023

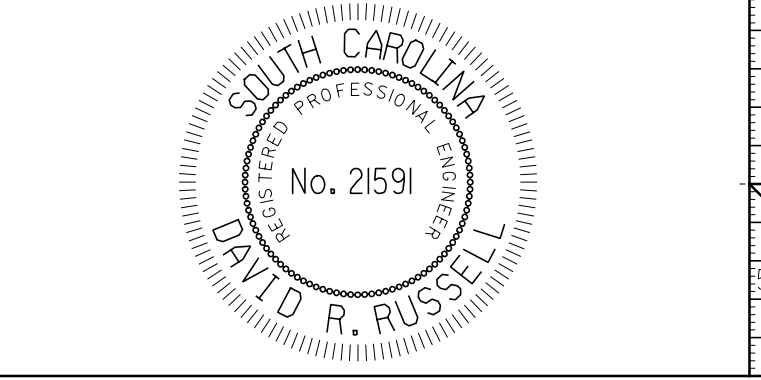


FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	R/D NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464		X2

ELIZABETH COURT



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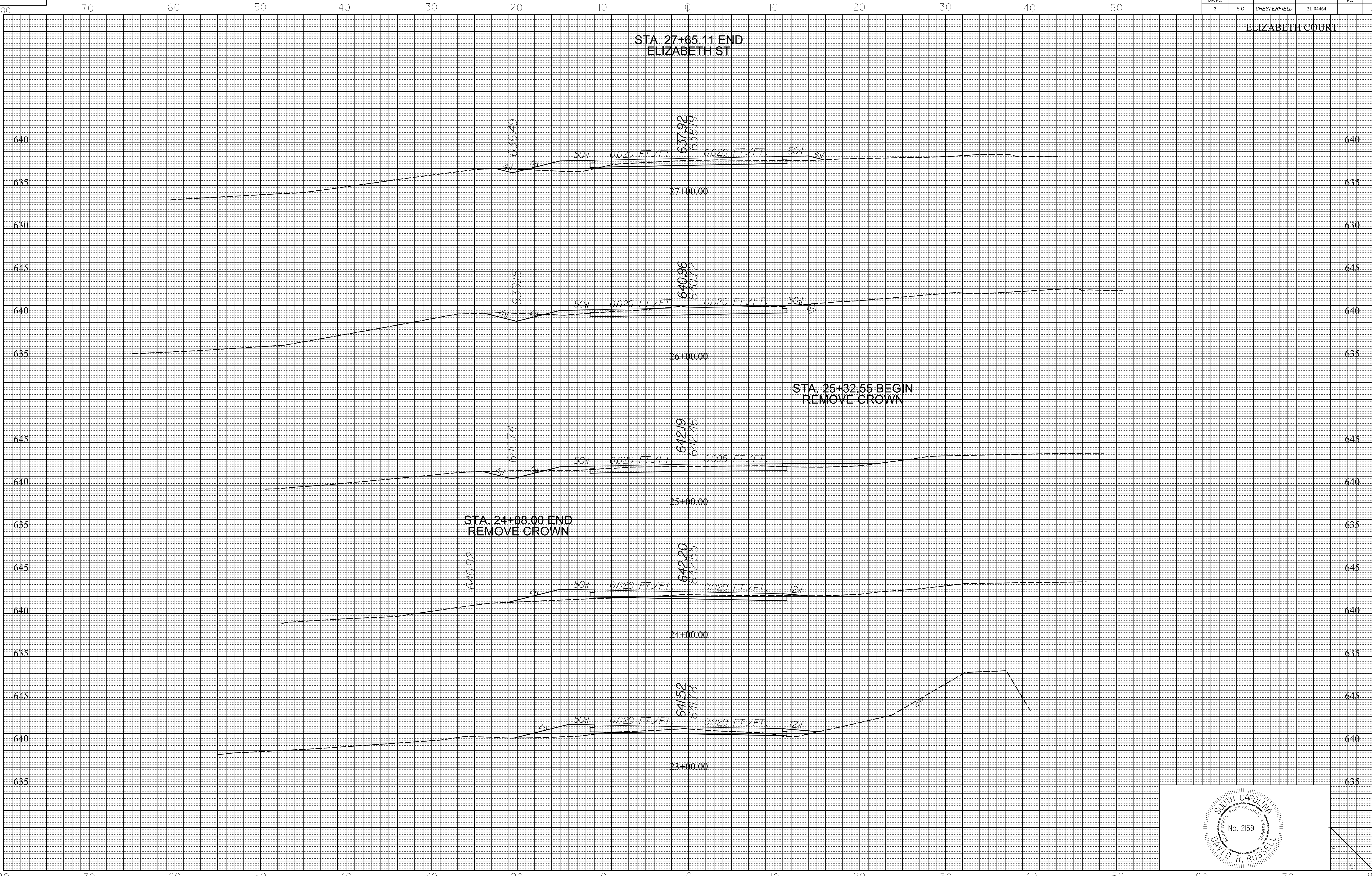


5' 15'

FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	RD NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464		X3

ELIZABETH COURT

STA. 27+65.11 END
ELIZABETH ST



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5/9/2023

