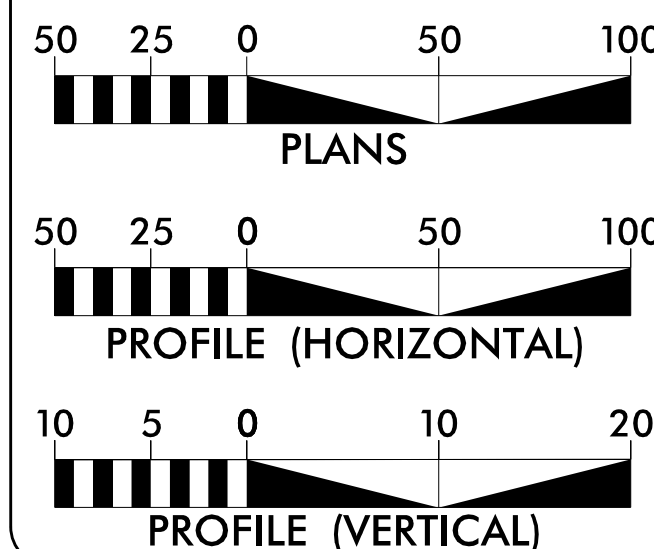


**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



2045 ADT = 41,679 VPD
K = 9%
D = 55%
T = 9% *
V = 50/60 MPH
* (TTST 5% + DUAL 4%)
FUNC. CLASS. =
PRINCIPAL ARTERIAL
STATEWIDE TIER

LENGTH ROADWAY TIP PROJECT U-5975A – WBS 45963.3.2	= 2.367 mi.
TOTAL LENGTH TIP PROJECT U-5975A – WBS 45963.3.2	= 2.367 mi.



INDEX OF SHEETS

SHEET NUMBER

SHEET

1

TITLE SHEET

1A

INDEX OF SHEETS, STANDARDS AND GENERAL NOTES

1B

CONVENTIONAL SYMBOLS

3P-1

PARCEL INDEX SHEETS

RW01

SURVEY CONTROL TITLE SHEET

RW02C-1 THRU RW02C-8

SURVEY CONTROL SHEETS

RW02D-1

PROPOSED ALIGNMENT CONTROL SHEET

RW03E-1 THRU RW03E-3

RIGHT OF WAY CONTROL SHEETS

RW04 THRU RW15

RIGHT OF WAY PLANS

TMP-1 THRU TMP-1A

TRAFFIC MANAGEMENT PLANS

EC-1 THRU EC-15

EROSION CONTROL PLANS

2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.

TITLE

DIVISION 2 - EARTHWORK

200.03 Method of Clearing - Method III

EFF. 01-2024
REV.

GENERAL NOTES:

2024 SPECIFICATIONS
EFFECTIVE: 01-2024
REVISED:

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III. WHERE PUE EXISTS BEYOND THE LIMITS OF METHOD III, CLEARING WILL EXTEND TO THE OUTMOST LIMITS OF THE PUE.

SAFETY CLEARING:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE AREAS IN THE PLANS DESIGNATED SAFETY CLEARING. THE LIMITS ARE AS SHOWN AND THE CLEARING AND GRUBBING IS CONSIDERED A PART OF THE LUMP SUM ITEM FOR "CLEARING AND GRUBBING".

PARCEL SPECIFIC REQUIREMENTS:

CONFIRM WITH OWNERS OF PARCEL 2 AND PARCEL 67 THAT WATER SUPPLY HAS BEEN SHUT OFF FROM IRRIGATION SYSTEM AND OWNER OF PARCEL 51 THAT WATER HAS BEEN SHUT OFF FROM WATER SPIGOT BEFORE PERFORMING ANY ACTIVITIES THAT WOULD IMPACT IRRIGATION SYSTEM OR SPIGOT.

PARCELS 41, 42, 44, 45, 46 & 69 HAVE SEPTIC SYSTEMS. CHECK WITH OWNER TO DETERMINE IF SEPTIC SYSTEM HAS BEEN RELOCATED. IF SEPTIC SYSTEM HAS NOT BEEN RELOCATED AND IS IMPACTED DURING GRADING ACTIVITIES, COORDINATE WITH OWNER (OWNERS HAVE BEEN COMPENSATED FOR SEPTIC SYSTEM REPAIR).

PARCELS 15, 40, 59, 71, & 75 HAVE SIGNS INSIDE THE RIGHT OF WAY. IF SIGNS REMAIN, THEY SHALL BE REMOVED.

PROJECT REFERENCE NO.	SHEET NO.
U-5975A	1A

ROADWAY DESIGN
ENGINEER
NORTH CAROLINA
PROFESSIONAL
SEAL
20204
AMAD JBRATIM
5/29/2026

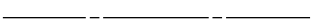
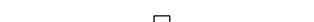
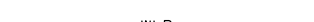
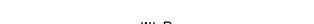
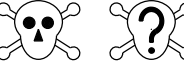

STEWART

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

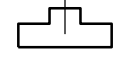
CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

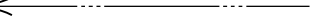
BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin (EIP)	
Computed Property Corner	
Existing Concrete Monument (ECM)	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

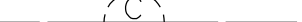
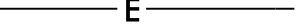
HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

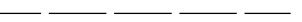
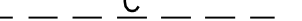
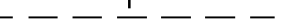
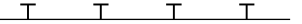
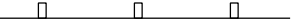
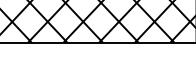
RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

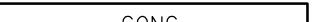
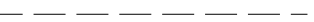
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent Easement Monument (Rebar and Cap)	
Existing C/A Monument	
Proposed C/A Monument (Rebar and Cap)	
Proposed C/A Monument (Concrete)	
Existing Right of Way Line	
Proposed Right of Way Line	
Existing Control of Access Line	
Proposed Control of Access Line	
Proposed ROW and CA Line	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage/Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
VEGETATION:	
Single Tree	
Single Shrub	
Hedge	

Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

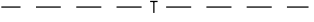
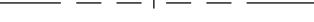
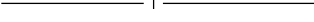
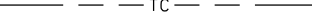
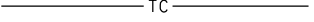
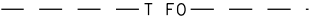
MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

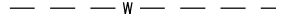
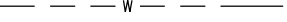
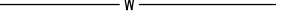
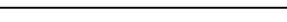
* SUE – Subsurface Utility Engineering
LOS – Level of Service – A,B,C or D (Accuracy)

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line Test Hole (SUE – LOS A)*	
U/G Power Line (SUE – LOS B)*	
U/G Power Line (SUE – LOS C)*	
U/G Power Line (SUE – LOS D)*	

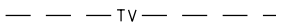
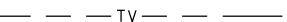
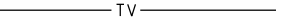
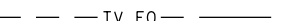
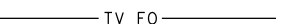
TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Test Hole (SUE – LOS A)*	
U/G Telephone Cable (SUE – LOS B)*	
U/G Telephone Cable (SUE – LOS C)*	
U/G Telephone Cable (SUE – LOS D)*	
U/G Telephone Conduit (SUE – LOS B)*	
U/G Telephone Conduit (SUE – LOS C)*	
U/G Telephone Conduit (SUE – LOS D)*	
U/G Fiber Optics Cable (SUE – LOS B)*	
U/G Fiber Optics Cable (SUE – LOS C)*	
U/G Fiber Optics Cable (SUE – LOS D)*	

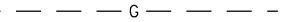
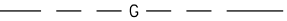
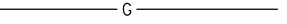
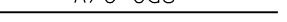
WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line Test Hole (SUE – LOS A)*	
U/G Water Line (SUE – LOS B)*	
U/G Water Line (SUE – LOS C)*	
U/G Water Line (SUE – LOS D)*	
Above Ground Water Line	

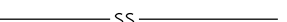
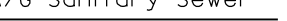
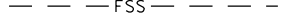
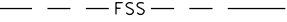
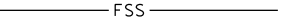
TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Test Hole (SUE – LOS A)*	
U/G TV Cable (SUE – LOS B)*	
U/G TV Cable (SUE – LOS C)*	
U/G TV Cable (SUE – LOS D)*	
U/G Fiber Optic Cable (SUE – LOS B)*	
U/G Fiber Optic Cable (SUE – LOS C)*	
U/G Fiber Optic Cable (SUE – LOS D)*	

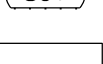
GAS:

Gas Valve	
Gas Meter	
U/G Gas Line Test Hole (SUE – LOS A)*	
U/G Gas Line (SUE – LOS B)*	
U/G Gas Line (SUE – LOS C)*	
U/G Gas Line (SUE – LOS D)*	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Force Main Line Test Hole (SUE – LOS A)*	
SS Force Main Line (SUE – LOS B)*	
SS Force Main Line (SUE – LOS C)*	
SS Force Main Line (SUE – LOS D)*	

MISCELLANEOUS:

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

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4	DAVID T. BOND & BELINDA J. BOND
2	4	HMS INVESTMENT PARTNERS, LLC.
3	4	JASON EDWARD WATKINS
4	4, 5, 14	JASON E. WATKINS
5	4, 5, 15	DONALD T. OLDFHAM
6	5, 14	BALD EAGLE PROPERTIES, LLC.
7	5, 6	TCC VANDERBUILT, LLC.
8	5	J. HARVEY BOULDIN
9	5	TCC VANDERBUILT, LLC.
10	5,6	GARY W. COLE & KATHY T. COLE
11	6	REGINALD BURGESS
12	6	DANIEL NELLIGAN & ROSEMARIE NELLIGAN
13	6	CARLOS RUBEN LLAMAS
14	6	CARLOS RUBEN LLAMAS
15	6, 7	WON NAM HONG
16	6	GARY W. COLE & KATHY T. COLE
17	6	W.F. STEWART & PEGGY STEWART
18	6	GARY W. COLE & KATHY T. COLE
19	6, 7	JEFFERSON DAVIS HIGHWAY PROPERTIES, LLC.
20	7	JT PROPERTIES OF NC, LLC.
21	7	ADORACION ERMITANIO TAMAYAO & JOSE MEDARDO OLIVAR
22	7, 8	MARTIN PINEDA CARRANZA
23	7	REMOVED
24	7	REMOVED
25	7	GENEVIEVE H. HUGHES
26	7	JOHN W. PAYNE & TERESA T. PAYNE
27	7	CHARLES W. GUIN & PRISCILLA FAYE GUIN
28	7	LINDA FAYE COLE
29	7	LINDA C. COLE
30	7, 8	WILLIAM MICHAEL JOHNSON
31	8	WAYMON L. COLE & LINDA C. COLE
32	8	WILLIAM C. COLE, JR.
33	8	AP WIRELESS INVESTMENTS, LLC. 30' ACCESS & UTILITY EASEMENT
34	8	KARAS AUTO SALES, INC.
35	8	RICHARD L. MAY & JO T. MAY
36	8	HAWKINS REALTY, INC.
37	8, 9	YOW INVESTMENT & FORESTLAND PROPERTIES
38	9	NANCY JAUREGUI
39	9	MICHAEL A. SHEFFIELD
40	9	DINAH SIMMONS VENABLE & SHANE RAY VENABLE
41	9	CHRISTOPHER J. HICKMAN & ALLISON M. HICKMAN
42	9	JORGE O. ACOSTA & LAURA ACOSTA
43	9	HAMADALLA A. GHANAYEM & JHG REAL ESTATE, LLC.
44	9	KATHY L. COLLINS
45	9	GERALD F. COX & TAMMY COX GUNTER
46	9	ROBERT HIGBEE
47	9, 10	CONNIE DONATHAN
48	9	RAINA DOREEN HOLDER
49	9, 10	YOW PROPERTY ASSOCIATES, LLC.
50	10	JEFFERY L. YOW & CHARLES R. YOW, JR.
51	10	DALE'S GREENHOUSE AND GARDEN CENTER, LLC.
52	10, 11	GARY W. COLE
53	10	STANLEY WARREN HALES & KIMBERLY B. HALES
54	10	JT PROPERTIES OF NC LLC
55	10, 11	ROGER W. MURCHISON, SR.
56	11	JT PROPERTIES OF NC LLC
57	11	CHARLES ROBERT YOW, JR. & JEFFERY L. YOW
58	11, 12	CHATLEE PROPERTIES, LLC.

[illegible]

PROJ. REFERENCE NO.	SHEET NO.
U-5975A	3P-1

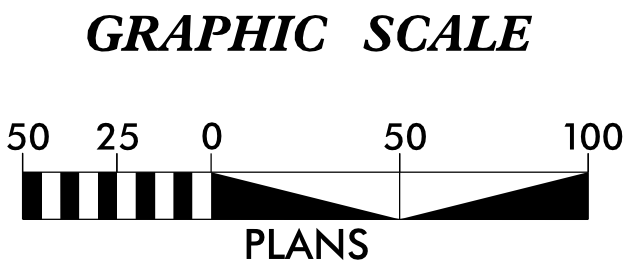
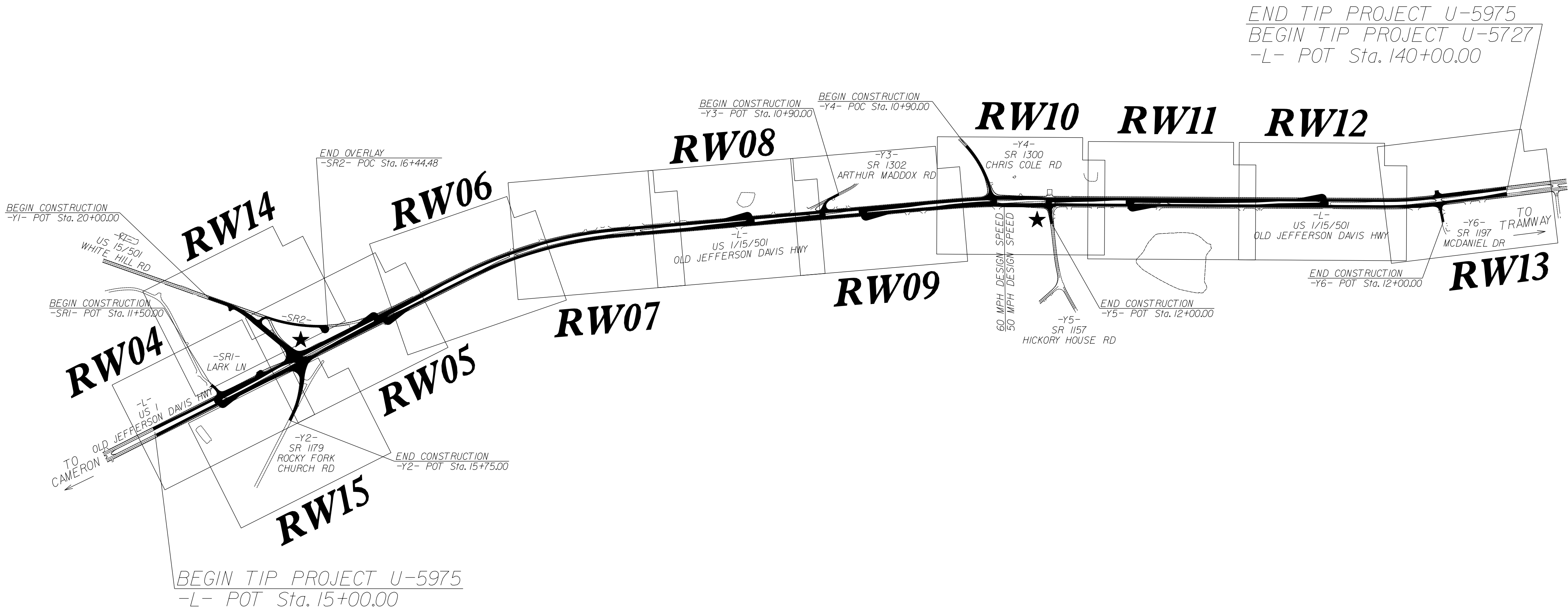
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U5975	RW01	25

TIP PROJECT: U5975

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

LEE COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "U5727-99" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 612976.972(ft) EASTING: 1934549.863(ft) ELEVATION: 502.997(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99985978366 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U5727-99" TO -L- STATION 145+00 IS S 41°21'53" W 153.19' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

McKIM & CREED

1730 VARSITY DRIVE
RALEIGH, NC 27606
(P) 919-233-8091

2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: 12/16/2022	LETTING DATE: 08/19/2025

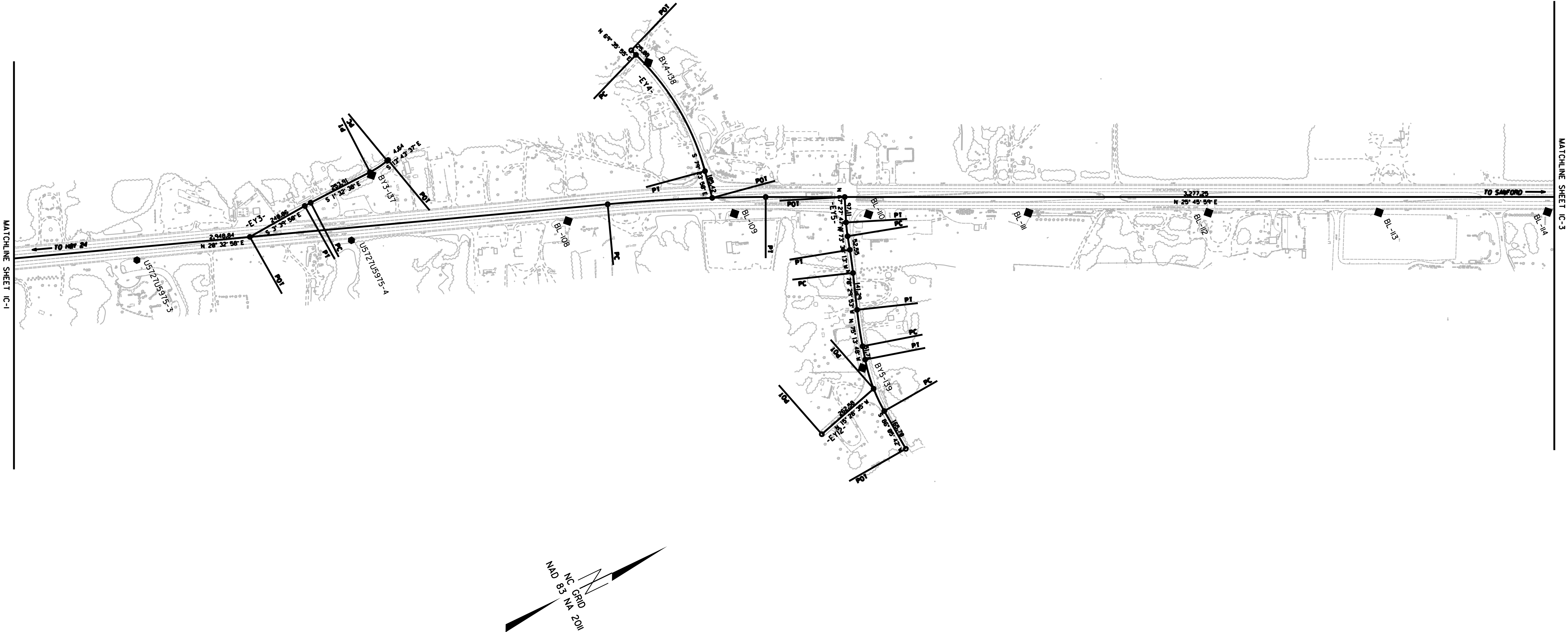
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Richard Mitchell
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SIGNATURE:

03/02/2023
Date:

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

REVISIONS



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

6/2/99

REVISIONS

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Created At 9/6/2017

PROJECT REFERENCE NO.	SHEET NO.
U-5727U-5975	RW2C-6
Location and Surveys	

SURVEY CONTROL SHEET U-5975 /U-5727

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
101		BL - 101	600402.3340	1930994.5480	430.03
102		BL - 102	601163.1520	1930958.4470	439.90
103		BL - 103	602043.9320	1930939.9450	478.90
104		BL - 104	602956.4580	1930927.5800	476.33
105		BL - 105	603890.3310	1930910.8440	471.07
106		BL - 106	604715.4310	1931027.4320	470.05
107		BL - 107	605504.9370	1931313.7430	473.89
3		U5727U5875-3	606127.8046	1931660.6178	471.19
4		U5727U5875-4	606896.5162	1931947.9426	459.69
108		BL - 108	607671.0000	1932240.0700	463.90
109		BL - 109	608254.5900	1932490.5400	475.52
110		BL - 110	608713.1590	1932714.9530	477.83
111		BL - 111	609264.6670	1932974.4940	479.94
112		BL - 112	609882.2270	1933272.5590	480.37
113		BL - 113	610467.0480	1933553.7560	485.29
114		BL - 114	611046.9020	1933831.3870	487.43
5		U5727U5875-5	611666.8824	1934102.7290	490.04
115		BL - 115	612331.8700	1934330.0890	495.96
99		U5727U5795-99	612976.9720	1934549.8630	503.00
116		BL - 116	613539.8870	1934749.4900	495.51
117		BL - 117	614110.0450	1934792.4780	497.30
118		BL - 118	614640.1290	1935006.1670	499.37
119		BL - 119	615143.9450	1935272.3440	499.75
120		BL - 120	615648.4430	1935529.5140	501.18
121		BL - 121	616241.0860	1935809.2500	492.21
122		BL - 122	616833.1760	1935922.5540	486.31
123		BL - 123	617527.3220	1935925.6440	483.50
124		BL - 124	618279.1850	1935942.1790	479.70
125		BL - 125	618963.0740	1936082.6640	465.87
126		BL - 126	619668.3880	1936369.9700	442.61
127		BL - 127	620357.5910	1936813.1640	415.93

BY	POINT	DESC.	NORTH	EAST	ELEVATION
128		BY - 128	600763.2870	1929723.3990	416.59
129		BY - 129	601084.5110	1929928.4560	422.89
130		BY - 130	601144.8770	1930553.6080	430.90
E0102		BL - 102	601163.1520	1930958.4470	439.90

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
131		BY1 - 131	600945.4830	1929645.3090	423.20
132		BY1 - 132	601242.8780	1929940.1290	427.82
133		BY1 - 133	601567.3530	1930260.1130	437.18
134		BY1 - 134	601779.0550	1930631.2560	461.61
E0103		BL - 103	602043.9320	1930939.9450	478.90

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
202		BL - 103	602043.9320	1930939.9450	478.90
135		BY2 - 135	601717.3790	1931459.6450	462.76
136		BY2 - 136	601200.1380	1931859.1260	460.90

BY3	POINT	DESC.	NORTH	EAST	ELEVATION
137		BY3 - 137	607073.9760	1931756.8760	463.53
203		U5727U5975-4	606896.5162	1931947.9426	459.69

BY4	POINT	DESC.	NORTH	EAST	ELEVATION
138		BY4 - 138	608209.2860	1931828.5620	488.44
204		BL - 109	608254.5900	1932490.5400	475.52

BY5	POINT	DESC.	NORTH	EAST	ELEVATION
205		BL - 110	608713.1590	1932714.9530	477.83
139		BY5 - 139	608438.7720	1933232.3460	461.98

BY6	POINT	DESC.	NORTH	EAST	ELEVATION
206		U5727U5975-5	611666.8824	1934102.7290	490.04
140		BY6 - 140	611774.8720	1934518.2610	488.03

BY7	POINT	DESC.	NORTH	EAST	ELEVATION
141		BY7 - 141	613803.3560	1933875.4810	496.79
142		BY7 - 142	613884.7350	1934217.6090	486.69
143		BY7 - 143	613970.2490	1934544.8910	487.30
207		BL - 117	614110.0450	1934792.4780	497.30

BY8	POINT	DESC.	NORTH	EAST	ELEVATION
208		BL - 117	614110.0450	1934792.4780	497.30
144		BY8 - 144	614282.2470	1935530.7880	498.13
145		BY8 - 145	614452.9850	1936314.2170	494.71
146		BY8 - 146	614510.5540	1937154.4960	484.34
147		BY8 - 147	614468.8430	1937967.5790	472.51
148		BY8 - 148	614415.7230	1938782.7710	465.10
149		BY8 - 149	614360.7530	1939650.7070	475.14

BY9	POINT	DESC.	NORTH	EAST	ELEVATION
150		BY9 - 150	616178.7430	1934742.1730	493.89
151		BY9 - 151	615874.9600	1935076.2280	496.61
209		BL - 120	615648.4430	1935529.5140	501.18

BY10	POINT	DESC.	NORTH	EAST	ELEVATION
210		BL - 122	616833.1760	1935922.5540	486.31
152		BY10 - 152	616816.1970	1936141.3270	490.87
153		BY10 - 153	617438.5510	1936578.0900	488.17

BY11	POINT	DESC.	NORTH	EAST	ELEVATION
211		BL - 120	615648.4430	1935529.5140	501.18
154		BY11 - 154	615391.2930	1935809.8420	502.33
155		BY11 - 155	615134.6880	1936168.1120	491.50
156		BY11 - 156	615204.0120	1936722.2430	486.46
157		BY11 - 157	615252.4520	1937153.4490	483.93
158		BY11 - 158	615170.2230	1937709.7400	477.94
159		BY11 - 159	614870.0590	1938372.9890	470.72
212		BY8 - 148	614415.7230	1938782.7710	465.10

.....
BM1 ELEVATION = 434.84
N 600538 E 1931146
BL STATION 6+29.00 157 RIGHT
BENCHTIE IN 12" GUM
.....
BM2 ELEVATION = 469.79
N 604424 E 1930955
BL STATION 45+24.00 31 LEFT
BENCHTIE IN 26" OAK
.....
BM3 ELEVATION = 460.97
N 607473 E 1932035
BL STATION 77+66.00 122 LEFT
BENCHTIE IN 26" SYCAMORE
.....
BM4 ELEVATION = 486.80
N 610270 E 1933301
BL STATION 108+26.00 142 LEFT
BENCHTIE IN 10" OAK
.....
BM5 ELEVATION = 494.01
N 613659 E 1934614
BL STATION 145+24.00 144 LEFT
BENCHTIE IN 10" OAK
.....
BM6 ELEVATION = 483.13
N 617200 E 1936067
BL STATION 183+19.00 142 RIGHT
BENCHTIE IN 9" OAK
.....
BM7 ELEVATION = 431.34
N 620016 E 1936527
BL STATION 212+35.00 56 LEFT
BENCHTIE IN 14" OAK
.....
BM8 ELEVATION = 496.13
N 614364 E 1935703
BY8 STATION 14+44.00 43 LEFT
BENCHTIE IN 8" MAPLE
.....
BM9 ELEVATION = 464.67
N 614465 E 1938375
BY8 STATION 41+23.00 22 LEFT
BENCHTIE IN 11" OAK
.....

NOTES:

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SURVEY CONTROL SHEET U-5975 /U-5727

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	600047.132	1931053.113	N 01°16'51.2" W	3609.06					
LINE									
PC	603655.290	1930972.437	N 09°38'03.3" E	1439.10	21°49'48.9"(RT)	01°30'28.0"	1447.84	732.80	3800.00
CURVE									
PT	605074.088	1931213.281	N 20°32'57.7" E	2948.84					
LINE									
PC	607835.290	1932248.365	N 23°09'28.4" E	602.57	05°13'01.4"(RT)	00°51'55.8"	602.78	301.60	6620.00
CURVE									
PT	608389.312	1932485.337	N 25°45'59.1" E	3277.25					
LINE									
PC	611340.718	1933909.970	N 22°06'48.2" E	458.74	07°18'21.9"(LT)	01°35'29.6"	459.05	229.84	3600.00
CURVE									
PT	611765.717	1934082.660	N 18°27'37.2" E	1863.73					
LINE									
PC	613533.543	1934672.806	N 18°15'58.5" E	63.18	00°23'17.5"(LT)	00°36'52.0"	63.18	31.59	9325.00
CURVE									
PT	613593.539	1934692.608	N 18°04'19.7" E	128.04					
LINE									
PC	613715.266	1934732.329	N 23°10'24.3" E	1490.24	10°12'09.1"(RT)	00°41'01.4"	1492.21	748.08	8380.00
CURVE									
PT	615085.267	1935318.759	N 28°16'28.8" E	749.48					
LINE									
PC	615745.323	1935673.787	N 13°41'22.1" E	1311.98	29°10'13.4"(LT)	02°11'58.0"	1326.26	677.83	2605.00
CURVE									
PT	617020.032	1935984.279	N 00°53'44.6" W	655.53					
LINE									
PC	617675.482	1935974.031	N 00°58'43.9" W	129.11	00°09'58.4"(LT)	00°07'43.5"	129.11	64.55	44500.00
CURVE									
PT	617804.573	1935971.826	N 16°54'12.8" E	2316.42	35°55'51.7"(RT)	01°31'33.1"	2354.82	1217.58	3755.00
CURVE									
PT	620020.911	1936645.351	N 34°52'08.6" E	614.06					
LINE									
POT	620524.723	1936996.410							

EY POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	600698.069	1929721.999	N 10°24'22.6" E	9.46					
LINE									
PC	600707.378	1929723.709	N 18°05'20.4" E	187.16	15°21'55.8"(RT)	08°11'06.4"	187.72	94.43	700.00
CURVE									
PT	600885.290	1929781.822	N 25°46'18.3" E	8.97					
LINE									
PC	600893.369	1929785.723	N 37°15'32.4" E	119.49	22°58'28.2"(RT)	19°05'54.9"	120.29	60.97	300.00
CURVE									
PT	600988.472	1929858.064	N 48°44'46.5" E	113.42					
LINE									
PC	601063.259	1929943.331	N 62°56'37.5" E	98.11	28°23'42.0"(RT)	28°38'52.4"	99.12	50.60	200.00
CURVE									
PT	601107.884	1930030.701	N 77°08'28.5" E	21.71					
LINE									
PC	601112.715	1930051.866	N 83°08'49.0" E	104.84	12°00'40.9"(RT)	11°26'10.6"	105.03	52.71	501.00
CURVE									
PT	601125.225	1930155.953	N 89°09'09.5" E	582.16					
LINE									
PC	601133.834	1930738.053	N 76°10'45.7" E	78.57	25°56'47.4"(LT)	32°44'25.6"	79.25	40.32	175.00
CURVE									
PT	601152.604	1930814.352	N 63°12'22.0" E	96.84					
LINE									
PC	601196.259	1930900.796	N 75°04'36.0" E	82.28	23°44'27.9"(RT)	28°38'52.4"	82.87	42.04	200.00
CURVE									
PT	601217.448	1930980.301	N 86°56'49.9" E	46.65					
LINE									
POT	601219.933	1931026.890							

EY1 POINT	N	E	BEARING	DIST
POT	600787.341	1929456.330		
LINE			N 44°48'52.1" E	1184.25
POT	601627.437	1930291.002		

EY2 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	601148.572	1931873.462	N 37°23'33.7" W	689.64					
LINE									
PC	601696.484	1931454.663	N 50°36'09.2" W	411.33	26°25'11.0"(LT)	06°21'58.3"	415.00	211.26	900.00
CURVE									
PT	601957.555	1931136.800	N 63°48'44.7" W	142.43					
LINE									
POT	602020.410	1931008.992							

EY3 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	607155.370	1931733.079	S 13°43'37.1" E	4.64					
LINE									
PC	607150.866	1931734.179	S 07°38'07.5" E	78.53	12°10'59.2"(RT)	15°29'07.2"	78.68	39.49	370.00
CURVE									
PT	607073.036	1931744.613	S 01°32'37.9" E	253.91					
LINE									
PC	606819.223	1931751.454	S 02°36'14.0" E	25.90	02°07'12.2"(LT)	08°11'06.4"	25.90	12.95	700.00
CURVE									
PT	606793.350	1931752.630	S 03°39'50.1" E	240.06					
LINE									
POT	606553.784	1931767.971							

EY4 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	608171.201	1931759.092	N 69°35'55.3" E	25.08					
LINE									
PC	608179.942	1931782.595	N 85°06'02.5" E	515.30	31°00'14.4"(RT)	05°56'36.8"	521.64	267.38	964.00
CURVE									
PT	608223.951	1932296.013	S 79°23'50.3" E	105.42					
LINE									
POT	608204.554	1932399.634							

EY5 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	608452.744	1933581.670	S 86°05'42.5" W	165.70					
LINE									
PC	608441.460	1933416.356	N 84°34'02.8" W	209.30	18°40'29.5"(RT)	08°52'59.0"	210.23	106.06	645.00
CURVE									
PT	608461.275	1933207.995	N 75°13'48.0" W	51.71					
LINE									
PC	608474.458	1933157.993	N 72°51'50.4" W	140.36	04°43'55.3"(RT)	03°22'13.2"	140.40	70.22	1700.00
CURVE									
PT	608515.815	1933023.862	N 70°29'52.7" W	141.29					
LINE									
PC	608562.984	1932890.676	N 72°00'02.8" W	89.17	03°00'20.2"(LT)	03°22'13.2"	89.18	44.60	1700.00
CURVE									
PT	608590.537	1932805.872	N 73°30'12.9" W	52.55					
LINE									
PC	608605.458	1932755.488	N 70°29'00.1" W	52.69	06°02'25.8"(RT)	11°27'33.0"	52.71	26.38	500.00
CURVE									
PT	608623.060	1932705.826	N 67°27'47.2" W	97.11					
LINE									
POT	608660.280	1932616.133							

EY6 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	611806.076	1934096.133	S 76°18'53.9" E	238.61					
LINE									
PC	611749.625	1934327.970	N 85°43'53.1" E	114.05	35°54'26.1"(LT)	30°58'14.5"	115.94	59.94	185.00
CURVE									
PT	611758.114	1934441.705	N 67°46'40.0" E	56.01					
LINE									
PC	611779.297	1934493.557	N 63°55'33.7" E	201.53	07°42'12.7"(LT)	03°49'11.0"	201.68	100.99	1500.00
CURVE									
PT	611867.874	1934674.573							

EY7 POINT	N	E	BEARING	DIST
POT	612804.619	1934429.472		
LINE			S 71°24'06.7" E	251.92
POT	612724.276	1934668.232		

EY8 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	613776.776	1933698.295	N 76°58'55.6" E	36.54					
LINE									
PC	613785.006	1933733.895	N 76°16'31.8" E	123.32	01°24'47.5"(LT)	01°08'45.3"	123.32	61.67	5000.00
CURVE									
PT	613814.265	1933853.696	N 75°34'08.1" E	1037.00					
LINE									
POT	614072.700	1934857.974							

EY9 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	614305.704	1940160.609	N 86°22'44.1" W	2423.02					
LINE									
PC	614458.737	1937742.422	N 86°30'17.5" W	21.98	00°15'06.9"(LT)	01°08'45.3"	21.98	10.99	5000.00
CURVE									
PT	614460.077	1937720.479	N 86°37'51.0" W	298.41					
LINE									
PC	614477.615	1937422.586	S 85°29'43.7" W	1506.89	15°44'50.5"(LT)	01°02'30.3"	1511.64	760.61	5500.00
CURVE									
PT	614359.267	1935920.355	S 77°37'18.5" W	94.49					
LINE									
PC	614339.011	1935828.058	S 77°37'18.5" W	0.00	00°00'00.2"(RT)	11°27'33.0"	0.00	0.00	500.00
CURVE									
PT	614339.011	1935828.058	S 76°25'57.9" W	20.75	02°22'41.4"(LT)	11°27'34.9"	20.75	10.38	499.98
CURVE									
PT	614334.143	1935807.886	S 75°14'37.2" W	275.77					
LINE									
PC	614263.902	1935541.212	S 74°34'35.2" W	116.45	01°20'03.9"(LT)	01°08'45.3"	116.45	58.23	5000.00
CURVE									
PT	614232.933	1935428.958	S 73°54'33.3" W	596.23					
LINE									

6/2/99

REVISIONS

6/2/99

SURVEY CONTROL SHEET U-5975 /U-5727

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-5727U-5975	RW2C-8
Location and Surveys	

EY14				
POINT	N	E	BEARING	DIST
POT	613250.984	1934892.749		
LINE			N 71°11'14.0" W	298.10
POT	613347.115	1934610.571		

EY15				
POINT	N	E	BEARING	DIST
POT	613912.382	1935383.708		
LINE			N 15°17'35.8" W	295.48
POT	614197.399	1935305.772		

EY16				
POINT	N	E	BEARING	DIST
POT	614048.540	1935885.689		
LINE			N 15°24'17.6" W	296.02
POT	614333.924	1935807.055		

EY17				
POINT	N	E	BEARING	DIST
POT	614160.997	1937717.095		
LINE			N 22°18'36.6" W	331.50
POT	614467.685	1937591.250		

EY18				
POINT	N	E	BEARING	DIST
POT	615994.079	1935323.870		
LINE			S 25°16'11.2" W	195.73
POT	615817.079	1935240.317		

EY19									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	616075.808	1935505.863							
LINE			S 67°06'49.5" E	70.10					
PC	616048.544	1935570.447							
CURVE			S 86°12'43.4" E	78.53	38°11'47.7"(L T)	47°44'47.3"	80.00	41.55	120.00
PCC	616043.357	1935648.801							
CURVE			N 47°25'15.4" E	77.89	54°32'14.7"(L T)	67°24'24.5"	80.91	43.81	85.00
PT	616096.056	1935706.154							
LINE			N 20°09'08.1" E	12.46					
PC	616107.755	1935710.447							
CURVE			N 16°52'48.5" E	319.64	06°32'39.1"(L T)	02°02'46.6"	319.81	160.08	2800.00
PT	616413.619	1935803.260							
LINE			N 13°36'28.9" E	2.62					
PC	616416.165	1935803.876							
CURVE			N 07°17'24.2" E	616.26	12°38'09.4"(L T)	02°02'46.6"	617.51	310.01	2800.00
PT	617027.442	1935882.075							
LINE			N 00°58'19.5" E	61.88					
PC	617089.311	1935883.124							
CURVE			N 00°06'21.5" W	82.78	02°09'22.0"(L T)	02°36'15.7"	82.79	41.40	2200.00
PT	617172.095	1935882.971							
LINE			N 01°11'02.5" W	600.35					
PC	617772.320	1935870.566							
CURVE			N 02°57'59.7" E	564.55	08°18'04.5"(RT)	01°28'08.8"	565.05	283.02	3900.00
PT	618336.118	1935899.783							
LINE			N 07°07'02.0" E	3.36					
PC	618339.449	1935900.199							
CURVE			N 13°33'48.3" E	898.16	12°53'32.5"(RT)	01°25'56.6"	900.06	451.94	4000.00
PCC	619212.560	1936110.837							
CURVE			N 22°38'59.3" E	285.60	05°16'49.4"(RT)	01°50'53.7"	285.70	142.95	3100.00
PT	619476.129	1936220.819							
LINE			N 25°17'24.0" E	171.35					
PC	619631.058	1936294.021							
CURVE			N 18°27'32.0" E	154.63	13°39'44.0"(L T)	08°48'53.0"	154.99	77.87	650.00
PT	619777.729	1936342.979							
LINE			N 11°37'40.0" E	21.29					
PC	619798.577	1936347.269							
CURVE			N 08°52'29.3" E	48.03	05°30'21.4"(L T)	11°27'33.0"	48.05	24.04	500.00
PT	619846.032	1936354.679							
LINE			N 06°07'18.6" E	320.92					
POT	620165.126	1936388.903							

EY20									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	617363.662	1936066.142							
LINE			N 00°39'36.6" W	498.71					
PC	617862.343	1936060.396							
CURVE			N 02°00'36.9" E	270.23	05°20'27.0"(RT)	01°58'32.6"	270.32	135.26	2900.00
PT	618132.402	1936069.875							
LINE			N 04°40'50.4" E	92.96					
PC	618225.052	1936077.461							
CURVE			N 09°32'09.6" E	433.36	09°42'38.5"(RT)	02°14'17.2"	433.88	217.46	2560.00
PT	618652.422	1936149.254							
LINE			N 14°23'28.8" E	114.52					
PC	618763.351	1936177.718							
CURVE			N 16°47'40.9" E	224.77	04°48'24.2"(RT)	02°08'16.4"	224.83	112.48	2680.00
PT	618978.531	1936242.663							
LINE			N 19°11'53.1" E	179.27					
PC	619147.836	1936301.615							
CURVE			N 22°07'08.7" E	254.79	05°50'31.2"(RT)	02°17'30.6"	254.91	127.56	2500.00
PT	619383.879	1936397.554							
LINE			N 25°02'24.3" E	38.60					
PC	619418.848	1936413.890							
CURVE			N 29°55'32.7" E	626.83	09°46'16.8"(RT)	01°33'25.0"	627.59	314.56	3680.00
PT	619962.108	1936726.603							
LINE			N 34°48'41.0" E	640.62					
POT	620488.076	1937092.315							

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

REVISIONS

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Klauswender AT MC06852

PROPOSED ALIGNMENT CONTROL SHEET

L			
TYPE	STATION	NORTH	EAST
POT	10+00.00	600047.1316	1931053.1129
TS	45+11.65	603557.9065	1930974.6146
SC	46+71.65	603717.8842	1930972.1347
CS	59+93.78	605015.1001	1931192.3400
ST	61+53.78	605165.2979	1931247.4729
TS	89+45.20	607779.1043	1932227.3030
SC	90+65.20	607891.3405	1932269.7639
CS	95+47.99	608335.1241	1932459.5838
ST	96+67.99	608443.3496	1932511.4213
TS	127+95.21	611259.6466	1933870.8369
SC	129+75.21	611422.3918	1933947.7278
CS	132+54.27	611680.8548	1934052.7491
ST	134+34.27	611851.1069	1934111.1650
POT	152+07.97	613533.5431	1934672.8055

SR1			
TYPE	STATION	NORTH	EAST
PC	10+00.00	601133.8344	1930738.0529
PT	10+79.25	601152.6043	1930814.3518
PC	11+76.09	601196.2590	1930900.7962
PT	12+58.96	601217.4484	1930980.3014
POT	13+05.62	601219.9330	1931026.8900

SR2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	601805.6777	1930557.4021
PC	10+34.21	601836.6597	1930542.8902
PRC	11+06.85	601903.9893	1930554.2585
PT	17+00.00	602402.6392	1930867.1940

Y1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	600787.3409	1929456.3296
PC	21+77.67	601622.7715	1930286.3671
PT	24+69.71	601790.0112	1930523.9552
POT	30+05.40	602017.2350	1931009.0629

Y2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	602020.4104	1931008.9919
PC	11+42.43	601957.5552	1931136.8003
PT	15+57.43	601696.4837	1931454.6629
POT	22+47.07	601148.5723	1931873.4621

Y3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	607073.0359	1931744.6129
PC	11+63.37	606909.7298	1931749.0144
PT	13+45.89	606769.6779	1931848.9022

Y4			
TYPE	STATION	NORTH	EAST
POT	10+00.00	608171.2007	1931759.0915
PC	10+25.08	608179.9422	1931782.5950
PT	15+46.72	608223.9513	1932296.0128
POT	16+52.23	608204.5368	1932399.7261

Y5			
TYPE	STATION	NORTH	EAST
POT	10+00.00	608660.2802	1932616.1329
PC	10+97.11	608623.0602	1932705.8263
PT	11+49.82	608605.4579	1932755.4879
PC	12+02.37	608590.5370	1932805.8715
PT	12+91.55	608562.9838	1932890.6757
PC	14+32.84	608515.8146	1933023.8623
PT	15+73.24	608474.4583	1933157.9933
PC	16+24.95	608461.2752	1933207.9951
PT	18+35.18	608441.4599	1933416.3555
POT	20+00.88	608452.7440	1933581.6700

Y6			
TYPE	STATION	NORTH	EAST
POT	10+00.00	611806.0830	1934096.1058
PC	12+38.64	611749.6247	1934327.9704
PT	13+54.58	611758.1137	1934441.7054
PC	14+10.59	611779.2974	1934493.5569
PT	16+12.27	611867.8745	1934674.5732

PROJECT REFERENCE NO.

U5975

SHEET NO.

RW02D-1

Location and Surveys

MCKIM & CREED

1730 VARSITY DRIVE
RALEIGH, NC 27606
(P) 919-233-8061

SEAL
L-5060
RICHARD A. MITCHELL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, Richard A. Mitchell, PLS, certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

This 1st day of March, 2023.

DocuSigned by:
Richard A. Mitchell 3/1/2023
54817600584E49F...

Professional Land Surveyor L-5060

NOTES:

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

REVISIONS

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Klauswender AT MC06852

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.

U5975

SHEET NO.

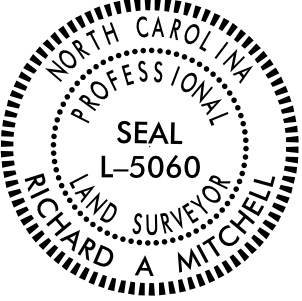
RW02E-1

Location and Surveys



MCKIM & CREED

1730 VARSITY DRIVE
RALEIGH, NC 27606
(P) 919-233-8091

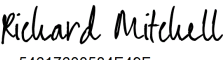


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, Richard A. Mitchell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 02/15/23 to 02/28/23, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 2nd day of March, 2023.

DocuSigned by:

03/02/2023

54617600584E49F...

Professional Land Surveyor L-5060

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	20+75.00	105.00	601124.2101	1931134.0565
L	20+75.00	82.86	601123.7153	1931111.9259
L	23+75.00	82.86	601423.6403	1931105.2198
L	23+75.00	105.00	601424.1352	1931127.3504
L	30+22.25	-66.77	602067.3811	1930941.1545
L	31+68.55	-67.25	602213.6315	1930937.4049
L	34+60.00	-105.00	602504.1698	1930893.1492
L	34+60.00	-68.21	602504.9923	1930929.9348
L	35+39.27	-105.00	602583.4176	1930891.3772
L	37+25.00	82.73	602773.3000	1931074.9087
L	37+25.00	105.00	602773.7978	1931097.1730
L	37+63.96	105.00	602812.7527	1931096.3020
L	37+75.00	-105.00	602819.0911	1930886.1078
L	37+75.00	-65.50	602819.9745	1930925.6002
L	38+08.56	105.00	602857.3325	1931095.3052
L	40+75.00	82.56	603123.2087	1931066.9108
L	40+75.00	105.00	603123.7104	1931089.3492
L	69+70.00	-78.26	605957.0535	1931460.6928
L	70+05.25	-78.21	605990.0378	1931473.1137
L	70+35.25	-78.20	606018.1234	1931483.6588
L	71+00.00	-105.00	606088.1664	1931481.2908
L	72+17.76	-105.00	606198.4304	1931522.6252
L	72+50.00	-77.97	606219.1346	1931559.2515
L	81+75.00	76.25	607031.1416	1932028.3518
L	81+75.00	105.00	607021.0512	1932055.2690
L	84+60.00	76.25	607298.0071	1932128.3909
L	84+60.00	105.00	607287.9167	1932155.3081
L	84+87.24	52.42	607331.8821	1932115.6389
L	105+73.72	62.05	609232.0523	1932961.0227
L	105+73.72	105.00	609213.3807	1932999.7047
L	108+50.00	105.00	609462.1956	1933119.8067
L	108+50.00	62.05	609480.8673	1933081.1247
L	108+78.72	52.42	609510.9114	1933084.9393
L	120+70.00	-105.00	610652.1832	1933461.0244
L	120+70.00	-81.95	610642.1643	1933481.7805
L	124+00.00	-105.00	610949.3726	1933604.4765
L	124+00.00	-81.95	610939.3536	1933625.2326

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
SR2	12+55.26	24.35	602000.5067	1930671.1556

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y1	26+96.29	92.22	601969.6318	1930690.0302
Y1	29+51.87	-60.85	602049.6312	1930934.7795

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 2/15/23 TO 2/28/23 .
4. ""*"" DENOTES POINT NOT SET DUE TO OBSTRUCTION.

REVISIONS

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Klauswender At MC06862

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	16+65.00	-81.14	600710.1517	1930957.1322
L	16+65.00	-95.00	600709.8418	1930943.2715
L	16+76.13	-115.30	600720.5122	1930922.7277
L	17+15.58	-115.30	600759.9585	1930921.8457
L	17+38.00	-92.31	600782.8837	1930944.3280
L	17+38.00	-81.14	600783.1335	1930955.5004
L	20+80.08	-86.71	601125.0012	1930942.2800
L	21+40.00	140.00	601189.9763	1931167.5948
L	22+58.38	-110.54	601302.7237	1930914.4754
L	22+58.38	-81.60	601303.3705	1930943.4044
L	22+70.00	130.00	601319.7202	1931154.6913
L	23+04.98	-149.44	601348.4407	1930874.5386
L	23+15.00	115.00	601364.3737	1931138.6891
L	23+41.65	-109.81	601385.9883	1930913.3379
L	23+77.50	-109.50	601421.8397	1930912.8481
L	23+78.65	-125.50	601422.6355	1930896.8263
L	23+97.00	-106.00	601441.4130	1930915.9114
L	23+98.15	-124.00	601442.1642	1930897.8901
L	24+19.00	-96.00	601463.6311	1930925.4171
L	24+45.00	115.00	601494.3412	1931135.7832
L	24+56.19	-81.14	601501.1479	1930939.4462
L	25+50.00	82.86	601598.5966	1931101.3079
L	25+50.00	105.00	601599.0914	1931123.4385
L	25+92.50	-88.50	601637.2554	1930929.0368
L	25+99.50	-81.14	601644.4182	1930936.2427
L	28+04.50	-81.14	601849.3669	1930931.6560
L	29+16.50	-95.00	601861.0541	1930917.5312
L	30+00.00	-120.00	602043.9494	1930888.4356
L	31+69.18	-95.00	602213.6463	1930909.6475
L	35+45.00	82.77	602593.3454	1931078.9673
L	35+71.52	109.21	602620.4482	1931104.8125
L	35+79.50	-105.00	602623.6399	1930890.4779
L	36+82.50	-132.00	602726.0106	1930861.1822
L	37+42.00	-123.50	602785.6858	1930868.3501
L	37+44.50	-134.00	602787.9504	1930857.7968
L	37+62.58	115.63	602811.6015	1931106.9600
L	37+64.00	-129.00	602807.5573	1930862.3596
L	37+69.00	-148.50	602812.1202	1930842.7527
L	37+83.50	-124.00	602827.1642	1930866.9225
L	37+88.50	-143.50	602831.7271	1930847.3156
L	38+03.95	135.67	602853.4093	1931126.0678
L	38+62.50	-107.00	602906.5245	1930882.1523
L	38+76.84	136.91	602926.3179	1931125.6793
L	39+46.85	109.31	602995.6837	1931096.5200
L	40+14.68	-99.51	603058.8332	1930886.2408
L	40+42.45	109.37	603091.2695	1931094.4449
L	40+46.83	105.00	603095.5432	1931089.9790
L	42+60.70	82.36	603308.8601	1931062.5634
L	43+60.00	134.00	603409.2874	1931111.9711
L	43+60.00	82.27	603408.1310	1931060.2527
L	43+96.50	-101.00	603440.5252	1930876.2140
L	44+26.00	82.23	603474.1138	1931058.7415
L	44+26.00	134.00	603475.2710	1931110.4958
L	44+53.00	-95.00	603497.3687	1930890.9470
L	44+88.50	82.18	603536.5969	1931057.2899
L	45+00.00	-61.83	603544.8749	1930913.0599
L	48+48.95	103.29	603890.6082	1931079.0436
L	48+81.05	-82.89	603931.4995	1930894.6178
L	48+95.00	135.00	603933.6147	1931112.9364
L	48+95.00	103.15	603935.3854	1931081.1367
L	49+13.11	-117.49	603966.2820	1930861.9213
L	49+30.84	158.96	603966.5937	1931138.9267
L	49+70.98	-121.83	604026.0868	1930861.6193
L	50+05.00	140.00	604039.1164	1931125.3204
L	50+08.96	-89.06	604062.3465	1930897.4100
L	50+49.00	-119.50	604106.0335	1930870.7895
L	50+53.86	-90.53	604108.2252	1930900.1067
L	50+60.00	130.00	604092.8961	1931120.1851
L	50+73.00	-124.00	604131.1067	1930868.7403
L	50+79.96	116.58	604113.4737	1931108.7762
L	50+87.10	-82.55	604141.2320	1930911.4600
L	50+92.09	144.92	604122.1667	1931138.1866
L	51+05.00	100.00	604139.4395	1931094.8731
L	51+20.00	130.00	604150.5664	1931126.3069
L	51+30.92	117.73	604162.4711	1931115.3321
L	51+60.00	-80.60	604214.9525	1930921.8962
L	51+60.00	84.51	604194.5730	1931085.7380
L	53+15.00	-105.00	604375.4980	1930920.4691
L	53+60.00	-125.00	604424.5364	1930908.5655
L	53+80.00	-83.16	604437.3502	1930953.3799
L	53+80.00	-125.00	604444.8539	1930912.2152
L	55+52.00	102.50	604568.0921	1931169.6910
L	55+70.50	121.00	604581.4384	1931191.7589
L	56+00.00	108.00	604612.2984	1931185.7234
L	56+00.00	97.55	604614.7503	1931175.5658
L	57+16.36	-74.05	604769.8474	1931038.2961
L	57+27.09	101.76	604733.5780	1931210.6616
L	57+30.00	156.50	604721.6923	1931264.1677
L	57+34.61	-122.74	604800.8363	1930996.3373
L	57+51.00	157.50	604740.8289	1931270.5637
L	57+58.15	100.65	604763.0065	1931217.7629
L	57+59.88	86.70	604768.4487	1931204.8061
L	57+61.50	-106.21	604822.9847	1931019.7653
L	57+61.50	-118.50	604826.3631	1931007.9444

PERMANENT EASEMANT CONTROL SHEET

ROW MARKER PERMANENT EASEMENT -E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	59+15.13	115.33	604904.5992	1931276.5575
L	59+20.00	146.71	604899.2416	1931307.8307
L	59+46.08	-98.00	605001.3756	1931083.9488
L	59+69.82	-120.62	605031.7800	1931070.4260
L	60+10.05	150.79	604979.8540	1931339.8248
L	60+27.76	-119.71	605087.7006	1931091.1216
L	60+43.34	120.47	605020.5771	1931322.2541
L	60+50.00	-97.02	605101.2865	1931120.1877
L	60+91.01	118.03	605065.4162	1931336.1563
L	61+00.00	130.50	605069.4019	1931350.9367
L	61+16.39	121.85	605087.6363	1931348.5088
L	61+30.07	104.58	605106.4296	1931337.0906
L	63+00.50	-99.26	605337.5215	1931206.0270
L	63+08.18	-94.74	605343.1313	1931212.9587
L	63+25.25	-94.95	605359.1881	1931218.7521
L	63+34.50	-99.61	605369.4801	1931217.6397
L	63+65.00	103.50	605326.7479	1931418.5284
L	63+65.00	76.72	605336.1475	1931393.4541
L	64+56.50	-100.25	605483.9440	1931259.8635
L	64+56.50	-110.50	605487.5429	1931250.2630
L	64+79.00	-109.00	605508.0847	1931259.5654
L	65+18.08	-78.74	605534.0514	1931301.6177
L	66+20.24	105.80	605564.9411	1931510.2762
L	66+40.61	76.65	605594.2505	1931490.1279
L	66+44.25	118.52	605582.9526	1931530.6161
L	66+65.43	103.33	605608.1222	1931523.8226
L	67+77.91	103.64	605713.3297	1931563.6001
L	67+97.00	116.00	605726.8721	1931581.8713
L	68+04.67	103.72	605738.3688	1931573.0670
L	68+89.19	-78.35	605881.4184	1931432.2493
L	69+25.00	-135.50	605935.0076	1931391.3040
L	69+44.48	-109.62	605944.1666	1931422.3729
L	69+45.00	-158.00	605961.6328	1931377.2560
L	69+62.00	-147.50	605973.8655	1931393.0551
L	70+33.44	-109.99	606027.5989	1931453.2534
L	71+15.76	-145.08	606116.9919	1931449.2962
L	71+23.29	102.76	606037.0434	1931684.0094
L	71+45.98	112.65	606054.8267	1931701.2278
*L	71+50.00	-200.00	606168.3313	1931409.8864
L	71+50.00	-142.62	606148.1887	1931463.6189
L	71+50.00	-105.00	606134.9849	1931498.8415
L	71+88.75	112.29	606094.9960	1931715.9026
*L	71+96.00	-200.00	606211.4043	1931426.0331
L	71+96.00	-105.00	606178.0580	1931514.9882
*L	71+96.00	-139.31	606190.1013	1931482.8613
L	72+11.34	102.50	606119.5820	1931714.6683
*L	72+34.14	-136.57	606224.8554	1931498.8171
L	72+77.04	-82.48	606246.0349	1931564.5165
L	73+03.22	-82.46	606270.5421	1931573.7327
L	73+03.22	-77.92	606268.9482	1931577.9845
L	76+26.59	101.25	606508.8518	1931859.2623
L	76+72.91	121.00	606545.2870	1931894.0129
L	77+05.31	102.04	606582.2847	1931887.6249
L	78+55.26	98.26	606724.0231	1931936.7242
L	79+00.42	76.30	606774.0155	1931932.0151
L	79+42.13	-77.71	606867.1345	1931802.4456
L	81+43.69	76.25	607001.8194	1932017.3599
L	82+18.60	150.43	607045.9326	1932113.1095
L	82+76.19	146.61	607101.1995	1932129.7526
L	82+89.88	130.98	607119.5015	1932119.9244
L	83+00.00	-90.00	607206.5453	1931916.5536
L	83+00.00	-77.75	607202.2440	1931928.0279
L	83+45.00	-100.00	607252.1921	1931922.9856
L	84+38.00	105.00	607267.3166	1932147.5858
L	88+95.00	-100.00	607767.1956	1932116.0435
L	89+75.00	-105.00	607843.9133	1932139.4686
L	89+75.00	-120.00	607849.1864	1932125.4260
L	90+30.00	-105.00	607895.7602	1932159.0361
*L	90+30.00	-120.00	607901.0889	1932145.0145
L	91+25.00	-103.64	607985.1696	1932195.1411
L	92+05.19	-107.77	608062.2894	1932221.7443
L	92+19.06	-114.03	608077.7064	1932221.3051
L	92+30.00	100.00	608006.1059	1932423.3047
L	92+30.00	74.02	608016.0461	1932399.3010
L	92+75.00	100.00	608046.9960	1932440.4008
L	92+75.00	73.92	608057.1371	1932416.3755
L	94+63.66	73.44	608228.1551	1932490.9209
L	94+93.53	-81.94	608320.1151	1932362.1637
L	95+16.00	98.00	608264.7893	1932534.8503
L	96+02.02	-102.92	608428.4007	1932389.9853
L	97+02.24	-81.35	608509.5597	1932453.0545
L	100+25.63	83.48	608729.1422	1932742.0724
L	100+29.11	-81.95	608804.1950	1932594.5999
L	100+42.39	-132.69	608838.2099	1932554.6834
L	100+44.62	-81.95	608818.1588	1932601.3401
L	100+56.89	-128.89	608849.6161	1932564.4033
L	102+18.00	78.00	608904.7701	1932820.7586
L	102+26.00	94.00	608905.0194	1932838.6455
L	102+40.00	62.05	608931.5173	1932815.9556
L	102+40.00	190.00	608875.8959	1932931.1864

6/2/99

REVISIONS

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P:\06462\1122\Automation\80-Drawings\Deliverables\U5975_1s-rw03e-3.dgn
Klauswender At MC06852

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.

U5975

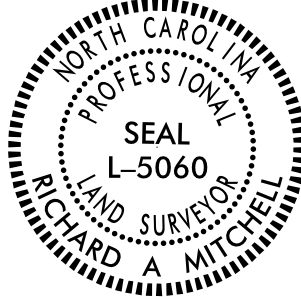
SHEET NO.

RW03E-3

Location and Surveys



1730 VARSITY DRIVE
RALEIGH, NC 27606
(P) 919-233-8051



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, Richard A. Mitchell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 02/15/23 to 02/28/23, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2023.

DocuSigned by

 3/1/2023

5481760058AE49F...

Professional Land Surveyor L-5060

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	127+95.00	-125.00	611313.7932	1933758.1729
L	128+11.61	104.80	611228.8720	1933972.3555
L	129+17.94	106.19	611325.3262	1934019.9219
L	130+35.25	86.72	611442.8875	1934051.6063
L	131+03.50	97.00	611503.4040	1934088.2461
L	131+03.73	-81.58	611571.3552	1933923.1033
L	131+04.32	87.92	611507.6290	1934080.1679
L	131+11.00	-118.50	611591.8638	1933891.5967
L	131+24.00	98.50	611522.3445	1934097.5675
L	131+24.00	88.49	611526.0877	1934088.2869
L	131+32.00	-118.00	611610.5069	1933899.6705
L	131+36.60	-81.58	611601.1345	1933935.1514
L	132+07.03	92.12	611604.0635	1934122.5875
L	132+08.00	148.00	611585.3077	1934175.2374
L	132+13.00	178.00	611579.6503	1934205.1591
L	132+32.50	178.00	611598.8316	1934212.2904
L	132+36.41	82.42	611635.6506	1934123.9980
L	132+36.52	93.88	611631.7999	1934134.7893
L	132+37.00	147.50	611613.7789	1934185.2914
L	132+52.39	94.98	611646.7239	1934141.4057
L	132+76.53	126.03	611659.6156	1934179.0165
L	133+54.99	-104.63	611809.5649	1933986.8582
L	133+54.99	-81.47	611802.1252	1934008.7898
L	133+67.90	128.41	611747.1026	1934211.7377
L	134+52.07	88.33	611840.0285	1934200.5853
L	137+00.00	-93.00	612132.6142	1934107.0942
L	137+15.98	81.74	612092.4435	1934277.9067
L	137+29.99	-81.89	612157.5461	1934127.1263

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
SR1	11+59.47	29.12	601162.7722	1930899.0852
SR1	11+62.03	-30.88	601217.4848	1930874.3249

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y1	24+78.33	85.36	601716.3644	1930567.9746
Y1	25+03.98	108.73	601706.0858	1930601.1061
Y1	25+52.09	107.66	601727.4583	1930644.2282
Y1	25+76.76	81.11	601761.9714	1930655.3035
Y1	28+02.85	74.11	601864.2085	1930857.0789
Y1	28+29.50	77.00	601872.8948	1930882.4359
Y1	28+95.00	-67.83	602031.8304	1930880.3199

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y2	13+67.29	-69.04	601886.7679	1931368.9943
Y2	14+14.41	-65.34	601850.1430	1931404.1507
Y2	15+87.42	-54.44	601705.7134	1931516.1318
Y2	16+13.62	-29.19	601669.5622	1931511.9791

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y3	11+90.00	-28.00	606888.8597	1931779.4702
Y3	11+93.23	33.56	606872.7907	1931719.9506
*Y3	11+95.50	68.00	606862.0556	1931687.0919
Y3	12+09.50	71.00	606841.7102	1931689.8466
Y3	12+13.48	40.11	606846.8887	1931720.7735

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y4	10+93.80	-30.17	608230.5399	1931839.3335
Y4	10+99.50	-59.50	608260.3700	1931836.9036
Y4	11+16.50	-74.50	608279.6762	1931850.4244
Y4	11+16.50	-56.00	608261.8039	1931855.2025
Y4	11+35.00	-74.00	608284.1530	1931869.8460
Y4	11+35.00	-57.50	608268.1340	1931873.8008
Y4	11+50.00	29.84	608186.7141	1931908.8734
Y4	11+50.01	-55.40	608269.7824	1931889.7441
Y4	11+50.01	-30.16	608245.1844	1931895.4120
Y4	12+43.50	-48.00	608279.9374	1931987.9616
Y4	14+02.00	-65.50	608305.2820	1932154.5918
Y4	14+05.00	-52.00	608291.6749	1932157.2800
*Y4	14+20.00	-70.50	608309.4242	1932174.0636
Y4	14+24.00	-54.00	608292.7128	1932177.3971
Y4	14+30.00	45.00	608193.5299	1932177.3922
Y4	15+09.93	45.75	608184.7724	1932253.0376
Y4	15+17.35	57.08	608172.5146	1932258.2827
Y4	15+22.50	-61.50	608288.8230	1932281.9486
Y4	15+26.50	-78.50	608304.9084	1932288.9249
Y4	15+55.60	-71.49	608292.5894	1932317.9022

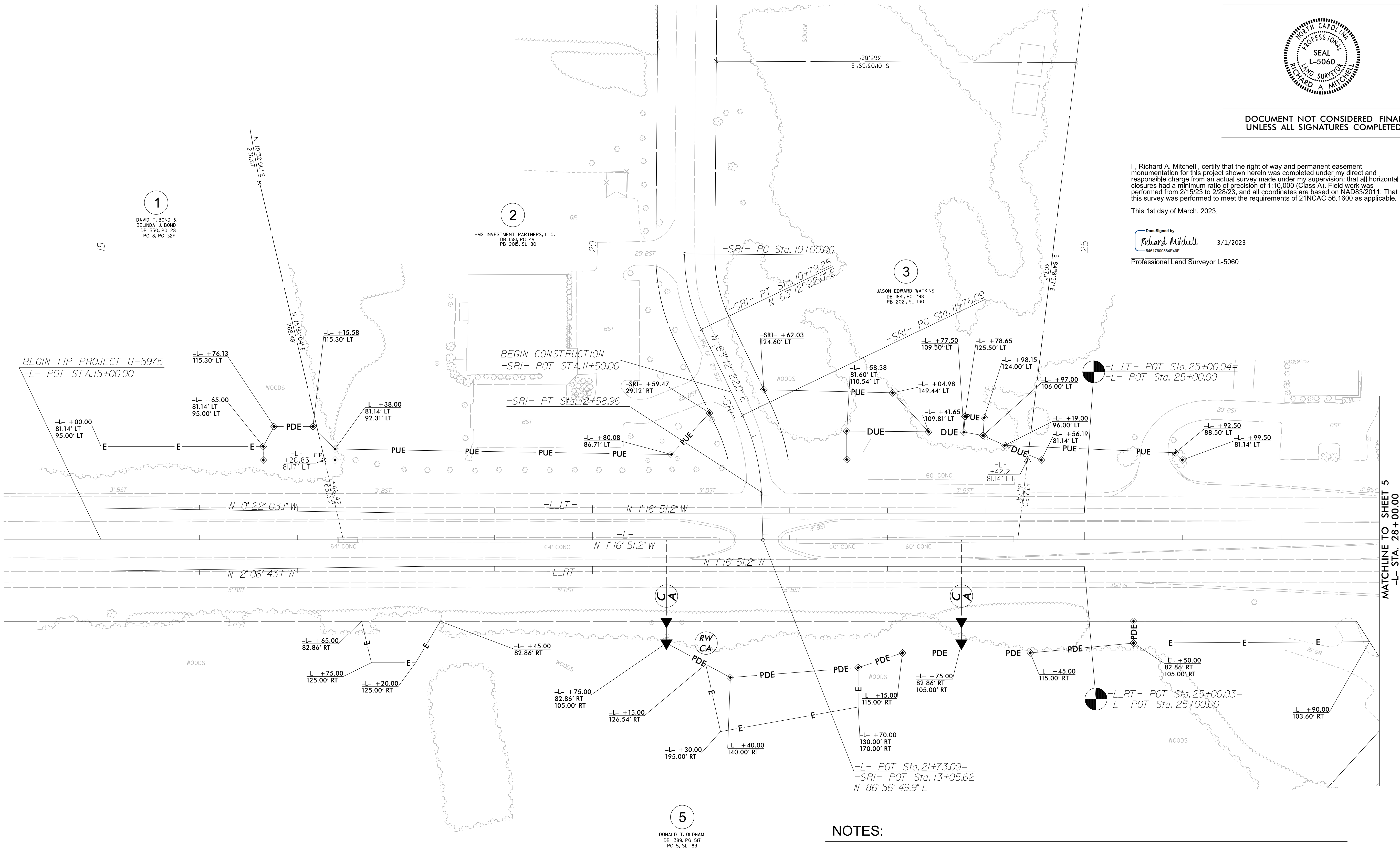
ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y5	10+85.44	64.25	608568.1874	1932670.4208
Y5	11+15.59	-74.02	608685.6583	1932748.8475
Y5	11+84.60	-34.80	608628.9526	1932798.7116

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y6	11+02.38	-30.05	611811.0590	1934202.6887

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 02/15/23 TO 02/28/23 .
4. "*" DENOTES POINT NOT SET DUE TO OBSTRUCTION.

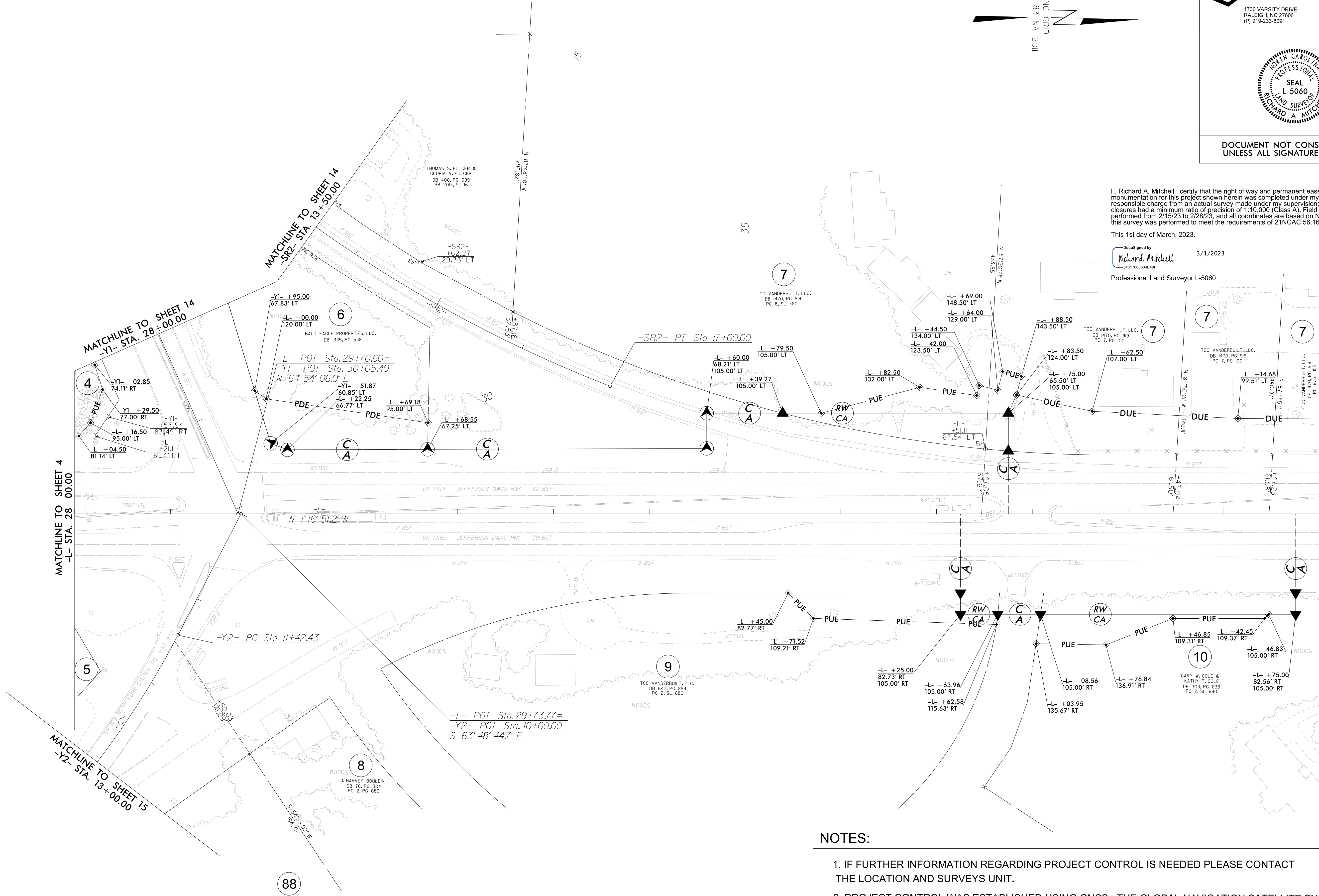
REVISIONS



NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 2/15/23 TO 2/28/15 .

REVISIONS



I, Richard A. Mitchell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 2/15/23 to 2/28/23, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

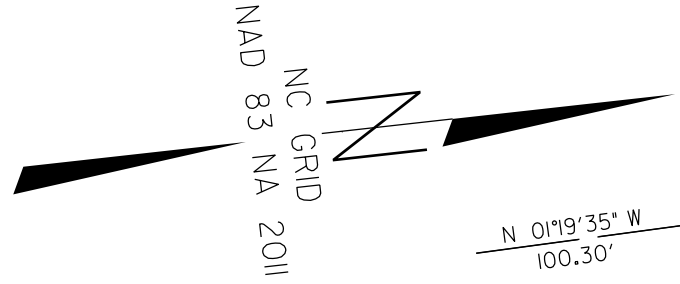
This 1st day of March, 2023.

DocuSigned by:
Richard Mitchell
3/1/2023
Professional Land Surveyor L-5060

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 2/15/23 TO 2/28/23 .

REVISIONS



MATCHLINE TO SHEET 5
-L- STA. 41+00.00

MATCHLINE TO SHEET 7
-L- STA. 52+00.00

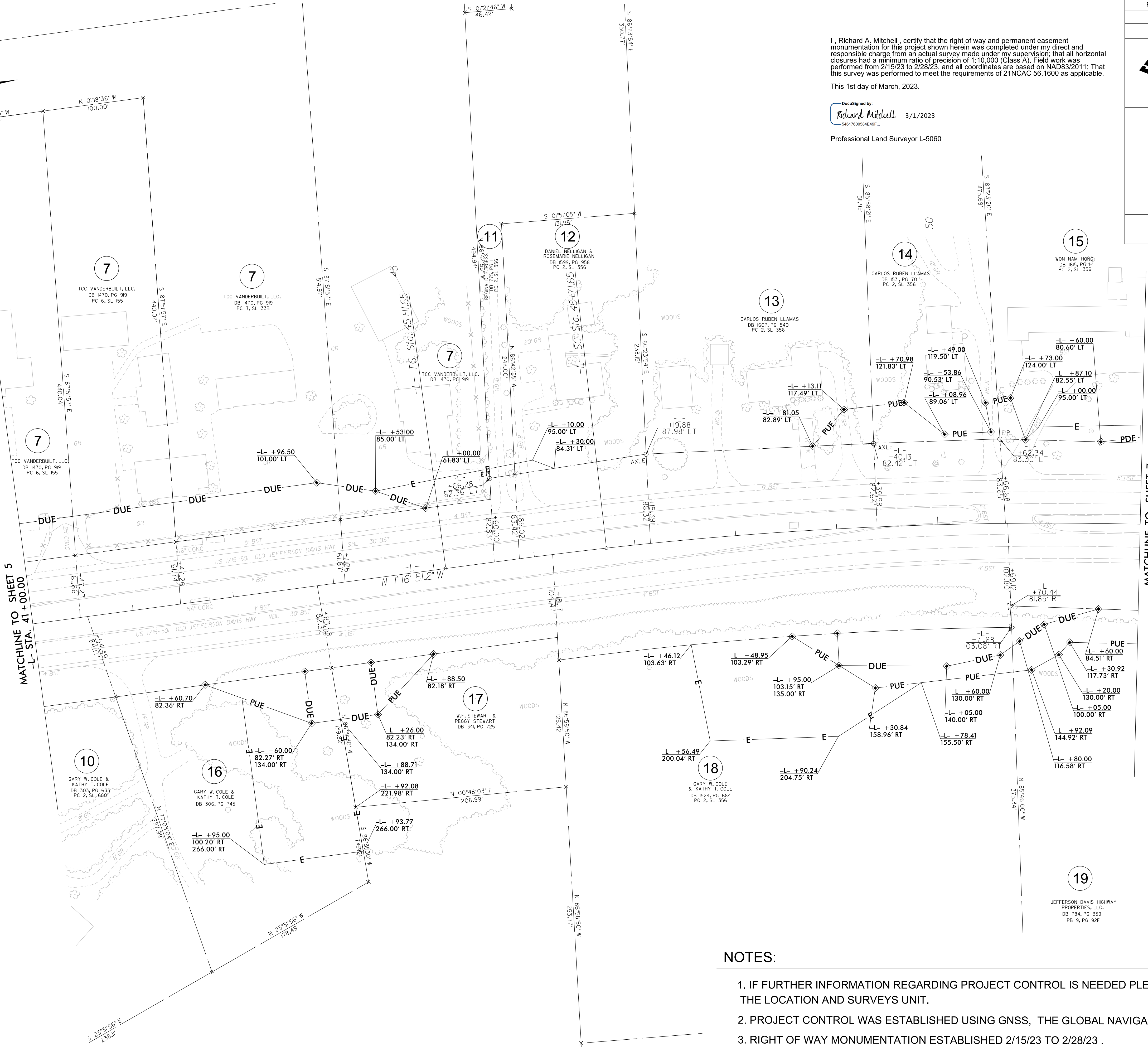
I, Richard A. Mitchell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 2/15/23 to 2/28/23, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2023.

DocuSigned by:
Richard A. Mitchell 3/1/2023
54817600594E49F...

Professional Land Surveyor L-5060

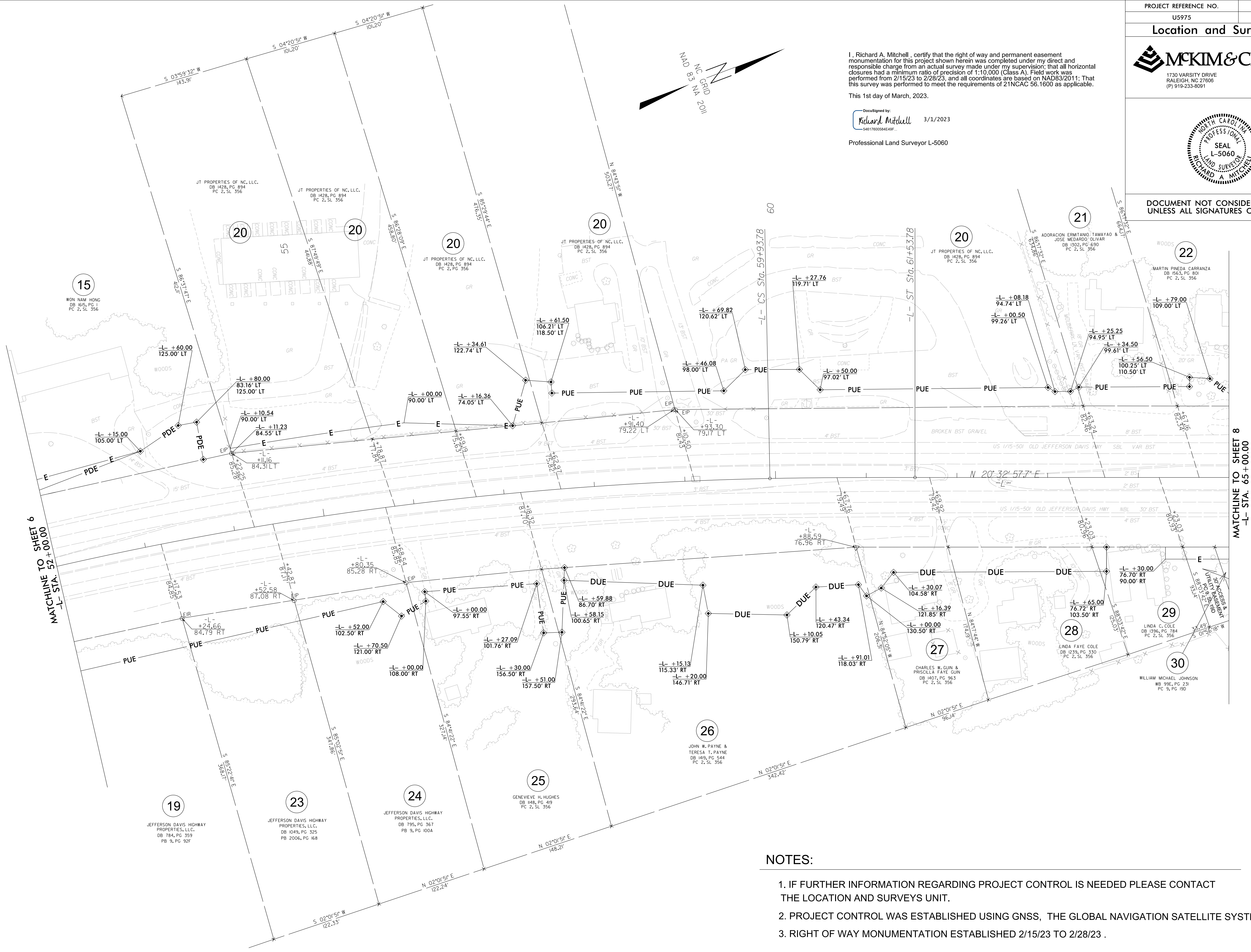
PROJECT REFERENCE NO.	SHEET NO.
U5975	RW06
Location and Surveys	
 1730 VARSITY DRIVE RALEIGH, NC 27606 (P) 919-233-8091	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 2/15/23 TO 2/28/23 .

REVISIONS



I, Richard A. Mitchell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 2/15/23 to 2/28/23, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2023.

DocuSigned by:
Richard A. Mitchell
3/1/2023

Professional Land Surveyor L-5060

PROJECT REFERENCE NO.	SHEET NO.
U5975	RW07
Location and Surveys	
 1730 VARSITY DRIVE RALEIGH, NC 27606 (P) 919-233-8091	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

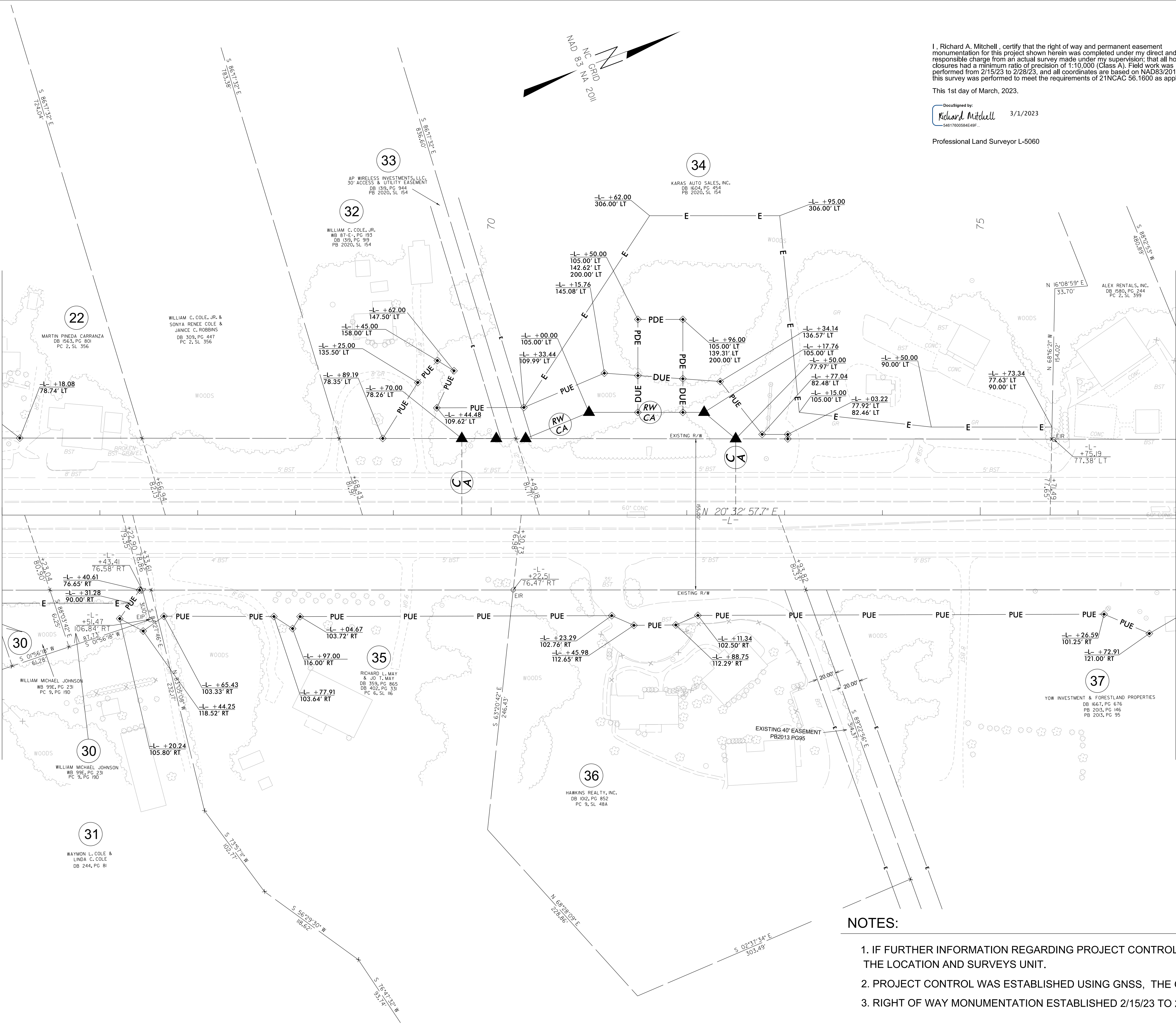
NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 2/15/23 TO 2/28/23 .

REVISIONS

MATCHLINE TO SHEET 7
-L- STA. 65+00.00

MATCHLINE TO SHEET 9
-L- STA. 77+00.00



I, Richard A. Mitchell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 2/15/23 to 2/28/23, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2023.

DocuSigned by:
Richard A. Mitchell 3/1/2023
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Professional Land Surveyor L-5060

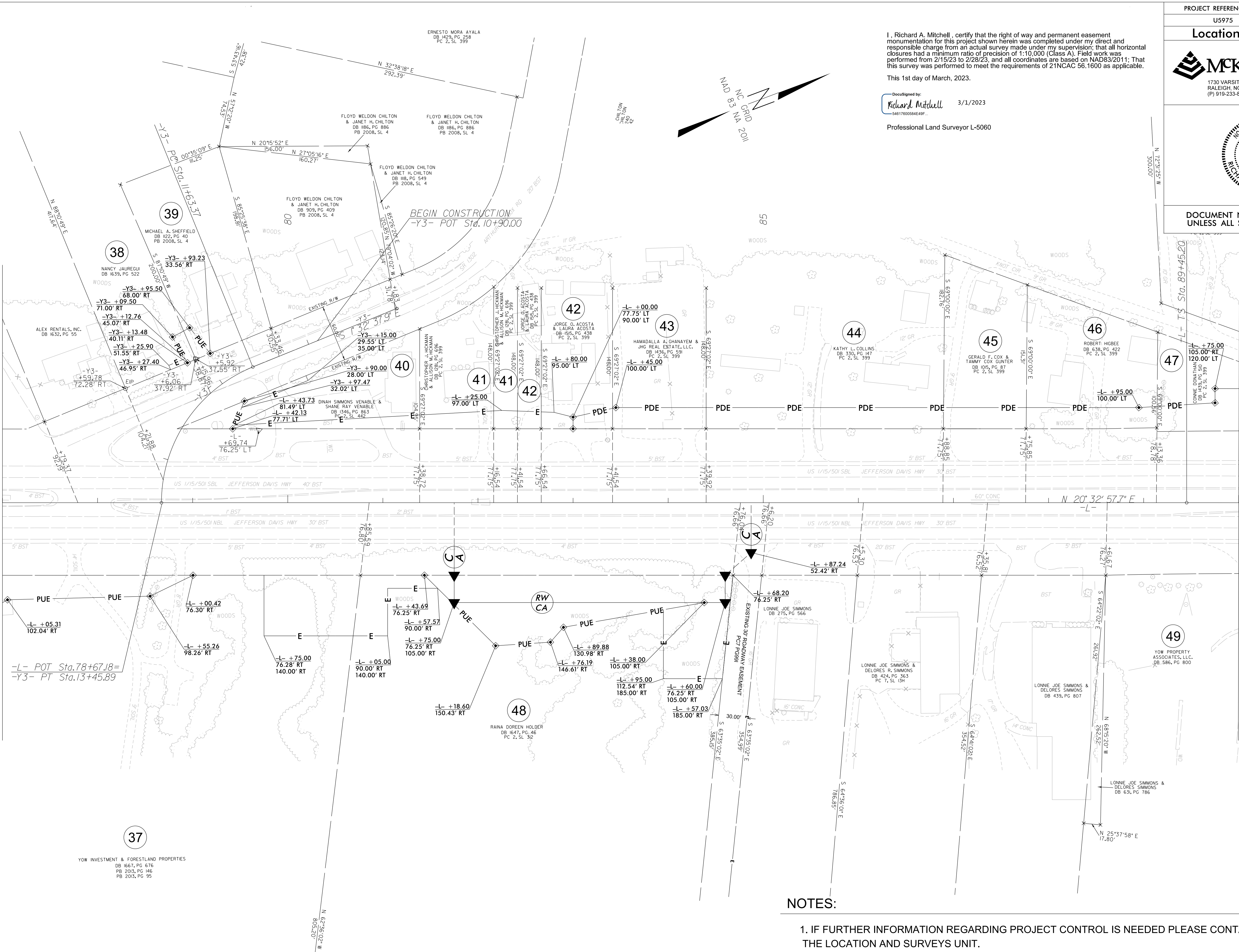
PROJECT REFERENCE NO.	SHEET NO.
U5975	RW08
Location and Surveys	
 1730 VARSITY DRIVE RALEIGH, NC 27608 (P) 919-233-8051	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 2/15/23 TO 2/28/23 .

REVISIONS

MATCHLINE TO SHEET 8
-L- STA. 77+00.00



I, Richard A. Mitchell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 2/15/23 to 2/28/23, and all coordinates are based on NAD83(2011); That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

DocuSigned by:
Richard Mitchell 3/1/2023
54817800584E49F...
Professional Land Surveyor L-5060

PROJECT REFERENCE NO.	SHEET NO.
U5975	RW09
Location and Surveys	
 1730 VARSITY DRIVE RALEIGH, NC 27608 (P) 919-233-8091	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTES:

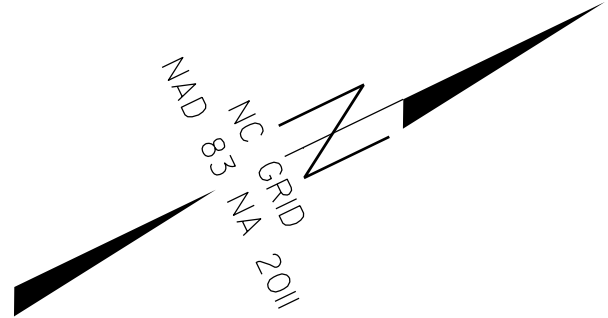
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 2/15/23 TO 2/28/23 .



PROJECT REFERENCE NO.	SHEET NO.
U5975	RW10
Location and Surveys	
 McKIM & CREED 1730 VARSITY DRIVE RALEIGH, NC 27606 (P) 919-233-8891	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 2/15/23 TO 2/28/23 .

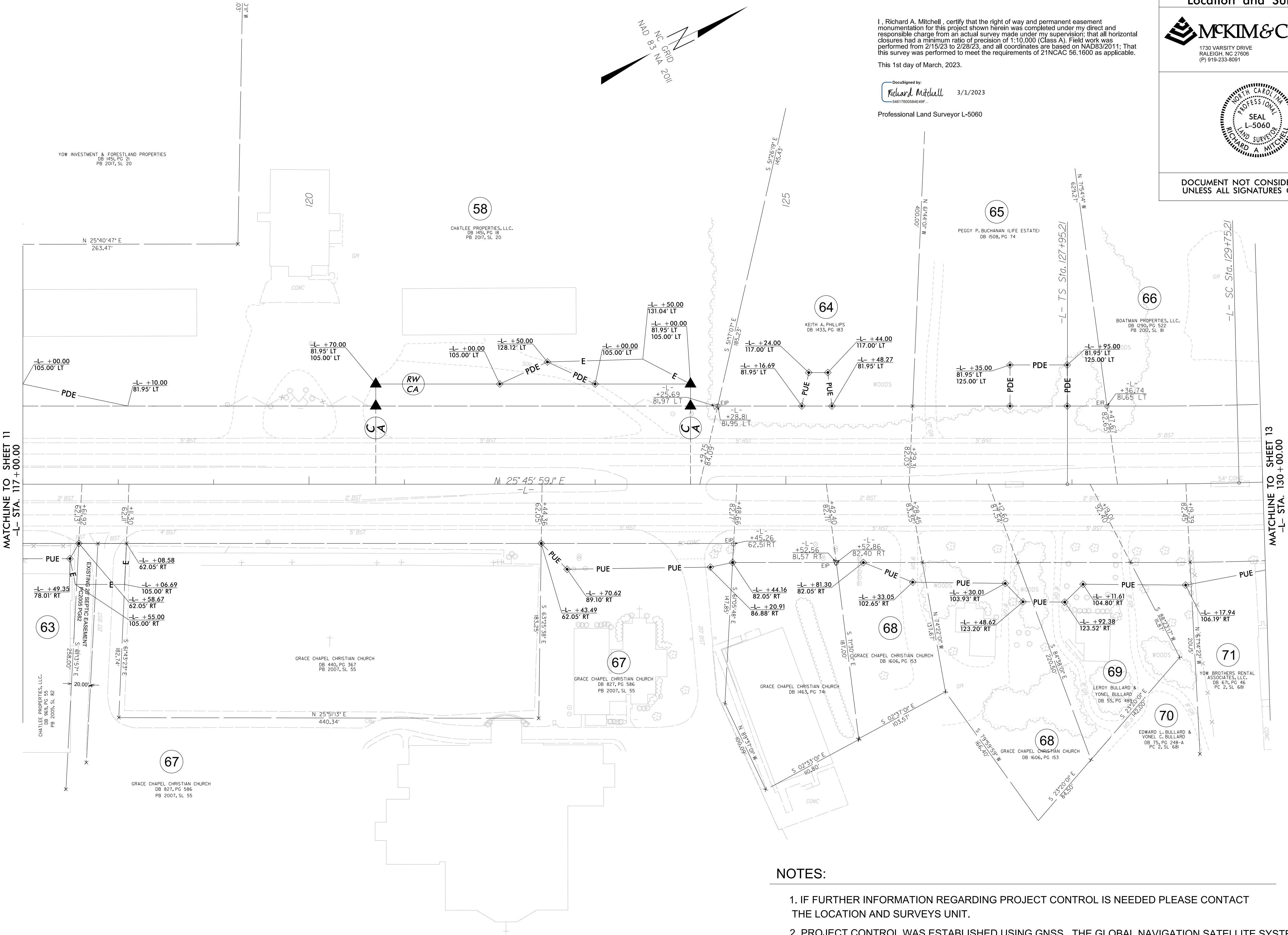
REVIEWS



This 2nd day of March, 2023.

Professional Land Surveyor L-5060

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 2/15/23 TO 2/28/23 .

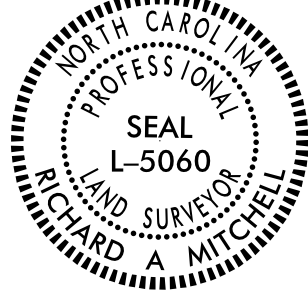


I, Richard A. Mitchell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 2/15/23 to 2/28/23, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2023.

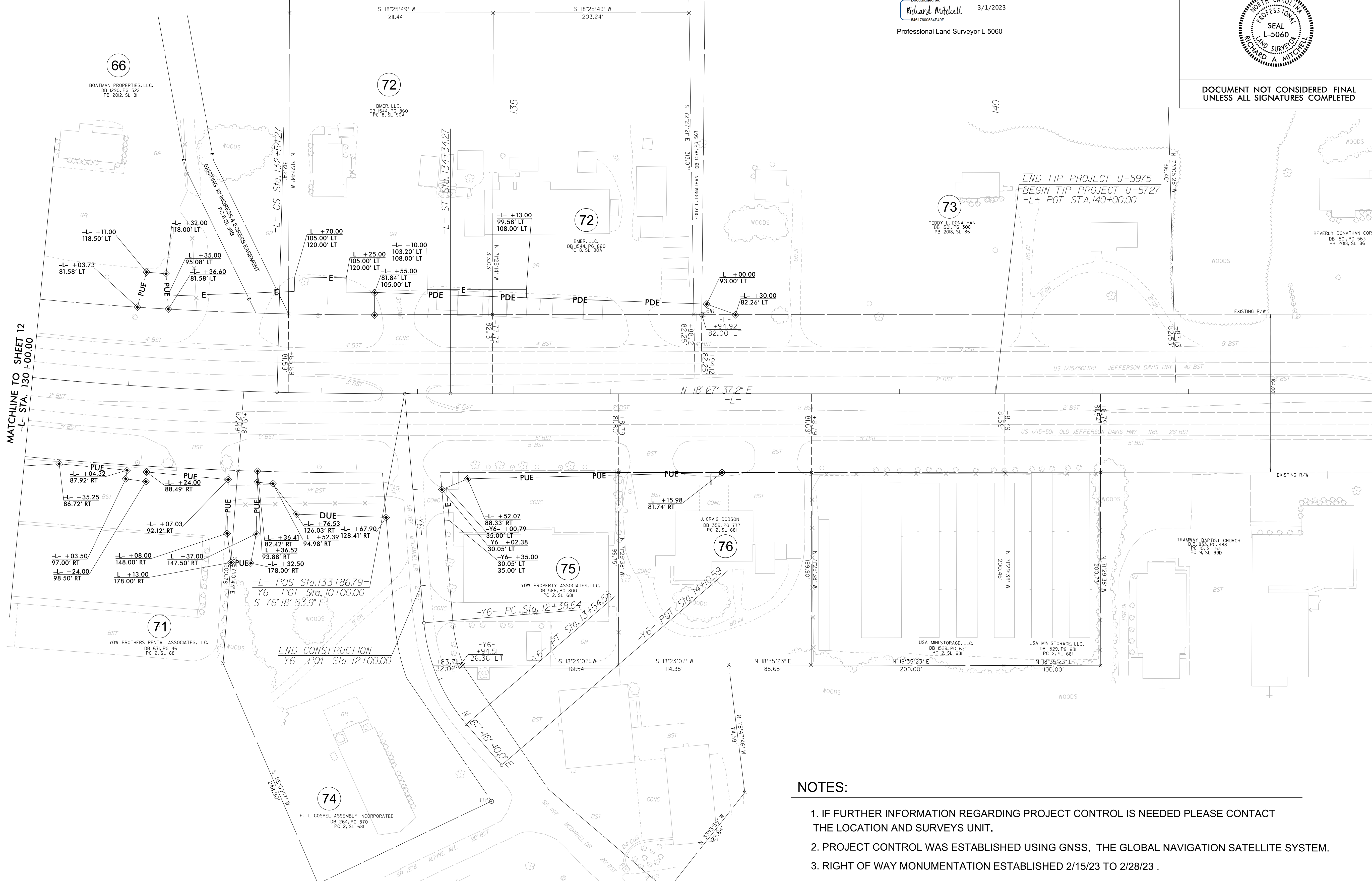
DocuSigned by:
Richard Mitchell
3/1/2023
5481780554E48F

Professional Land Surveyor L-5060

PROJECT REFERENCE NO.	SHEET NO.
U5975	RW12
Location and Surveys	
 1730 VARSITY DRIVE RALEIGH, NC 27606 (P) 919-233-8881	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

- NOTES:
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 - PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 - RIGHT OF WAY MONUMENTATION ESTABLISHED 2/15/23 TO 2/28/23 .

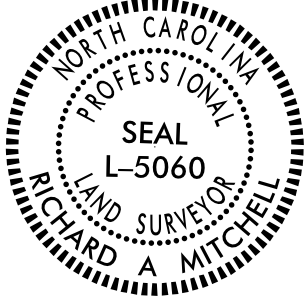
REVISIONS



I, Richard A. Mitchell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 2/15/28 to 2/28/23, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

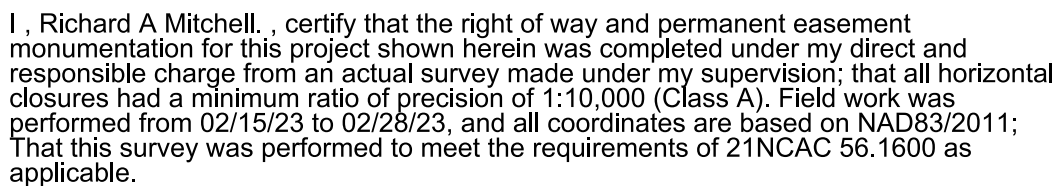
This 1st day of March, 2023.

DocuSigned by:
Richard Mitchell
3/1/2023
54617800584E40F...
Professional Land Surveyor L-5060

PROJECT REFERENCE NO.		SHEET NO.	
U5975		RW13	
Location and Surveys			
 1730 VARSITY DRIVE RALEIGH, NC 27606 (P) 919-233-8091			
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 2/15/23 TO 2/28/23 .



DocuSigned by:
Richard Mitchell 3/1/2023

Professional Land Surveyor L-5060

PROJECT REFERENCE NO.	SHEET NO.
U5975	RW14
Location and Surveys	
 McKIM & CREED	
1730 VARSITY DRIVE RALEIGH, NC 27606 (P) 919-233-8091	
	
THIS DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

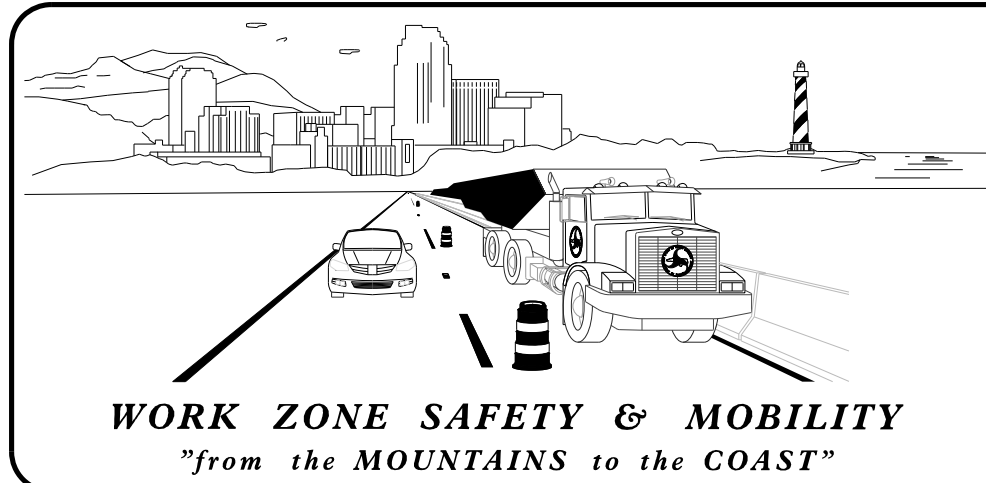
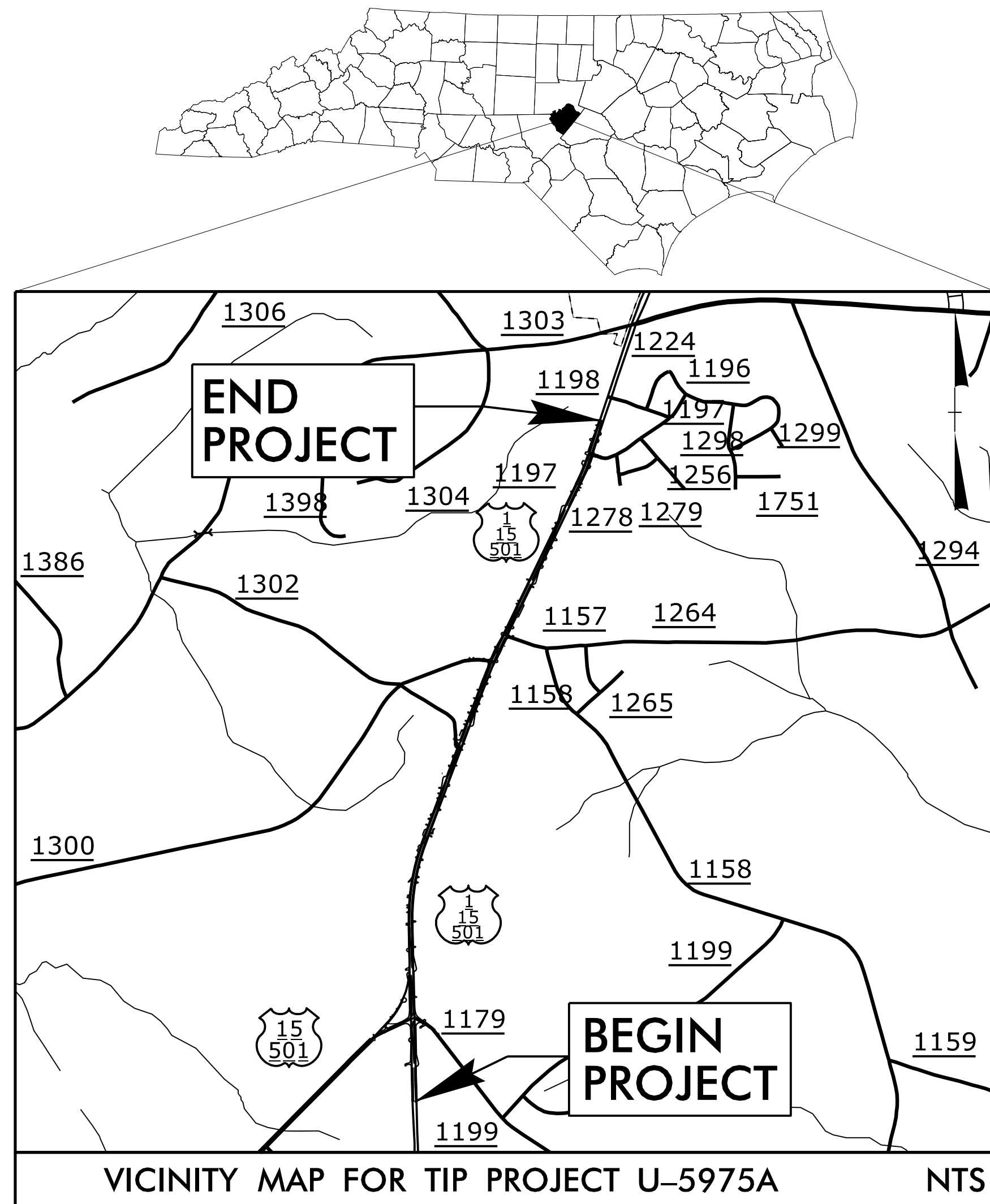
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

LEE COUNTY

LOCATION: US 1 /15 /501 FROM US 15 /501 (WHITE HILL RD)
/SR 1179 (ROCKY FORK CHURCH RD) TO SOUTH
OF SR 1198 (BRYAN RD)

TYPE OF WORK: CLEARING AND GRUBBING, EROSION CONTROL

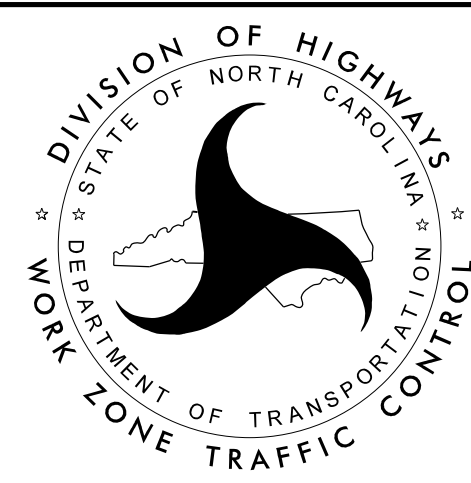


AMJAD IBRAHIM, PE
PROJECT ENGINEER

AIMAN CHIKHI, EI
PROJECT DESIGNER

JERRY PAGE, PE
DIVISION 8 PROJECT MANAGER

JEFFREY STRODER, PE
DIVISION 8 PROJECT ENGINEER



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS, LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND PHASING
TMP-1A	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES, MANAGEMENT STRATEGIES, AND LOCAL NOTES)

REV. JANUARY 2024

ROADWAY STANDARD DRAWINGS

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

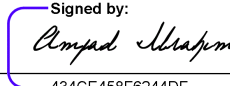
STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGERS
1180.01	SKINNY DRUMS

PHASING

- STEP 1. USING RSD 1101.02 SHEETS 1 AND 2 OF 19 INSTALL THE WORK ADVANCE WARNING SIGNS. SEE ROADWAY STANDARD DRAWING D) 1101.01 SHEET 3 OF 3.
- STEP 2. WORKING AWAY FROM TRAFFIC AND USING RSD 1101.02 AND 1101.04 AS NEEDED, COMPLETE THE CLEARING AND GRUBBING.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



APPROVED:  434CE458F9244CF
DATE: 5/29/2026

SEAL



SHEET NO.

TMP-1

TIP PROJECT: U-5975A - WBS 45963.3.2

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
U-5975A	TMP - 1A

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE

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

MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED STRATEGIES:

TRAFFIC MANAGEMENT STRATEGIES:

FULL ROADWAY CLOSURES
LANE SHIFTS OR CLOSURES
SHOULDER CLOSURES
ONE-LANE, TWO WAY OPERATION (FLAGGING)
NIGHT WORK
WEEKEND WORK
WORK HOUR RESTRICTIONS FOR PEAK TRAVEL
OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES

WORK ZONE SAFETY & MOBILITY STRATEGIES:

SPEED LIMIT REDUCTION
TEMPORARY TRAFFIC SIGNALS
PRESENCE LIGHTING

LOCAL NOTES

- NOTIFY THE ENGINEER AT LEAST 30 DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.
- NOTIFY THE LEE COUNTY SCHOOLS TRANSPORTATION DIRECTOR 30 DAYS PRIOR TO ROAD CLOSURE.
- NOTIFY THE LEE COUNTY EMERGENCY MANAGEMENT SERVICES DIRECTOR 30 DAYS PRIOR TO ROAD CLOSURE.
- REFERENCE UTILITY CONSTRUCTION PLANS FOR WATER DESIGN.
- ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE PROJECT LIMITS MUST BE MAINTAINED AT ALL TIMES.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME

US-1/15-501 (JEFFERSON DAVIS HIGHWAY)

DAY AND TIME RESTRICTIONS

MONDAY THRU FRIDAY 6-9AM AND 4-7PM

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

US-1/15-501 (JEFFERSON DAVIS HIGHWAY)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

LANE AND SHOULDER CLOSURE REQUIREMENTS (CONTD.)

- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

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

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

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

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

P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

Q) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

R) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

S) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

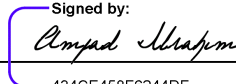
PAVEMENT MARKINGS AND MARKERS

T) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.



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434 Fayetteville St,
Suite 1400
Raleigh, NC 27601
T 919.380.8750
www.stewartinc.com

STEWART

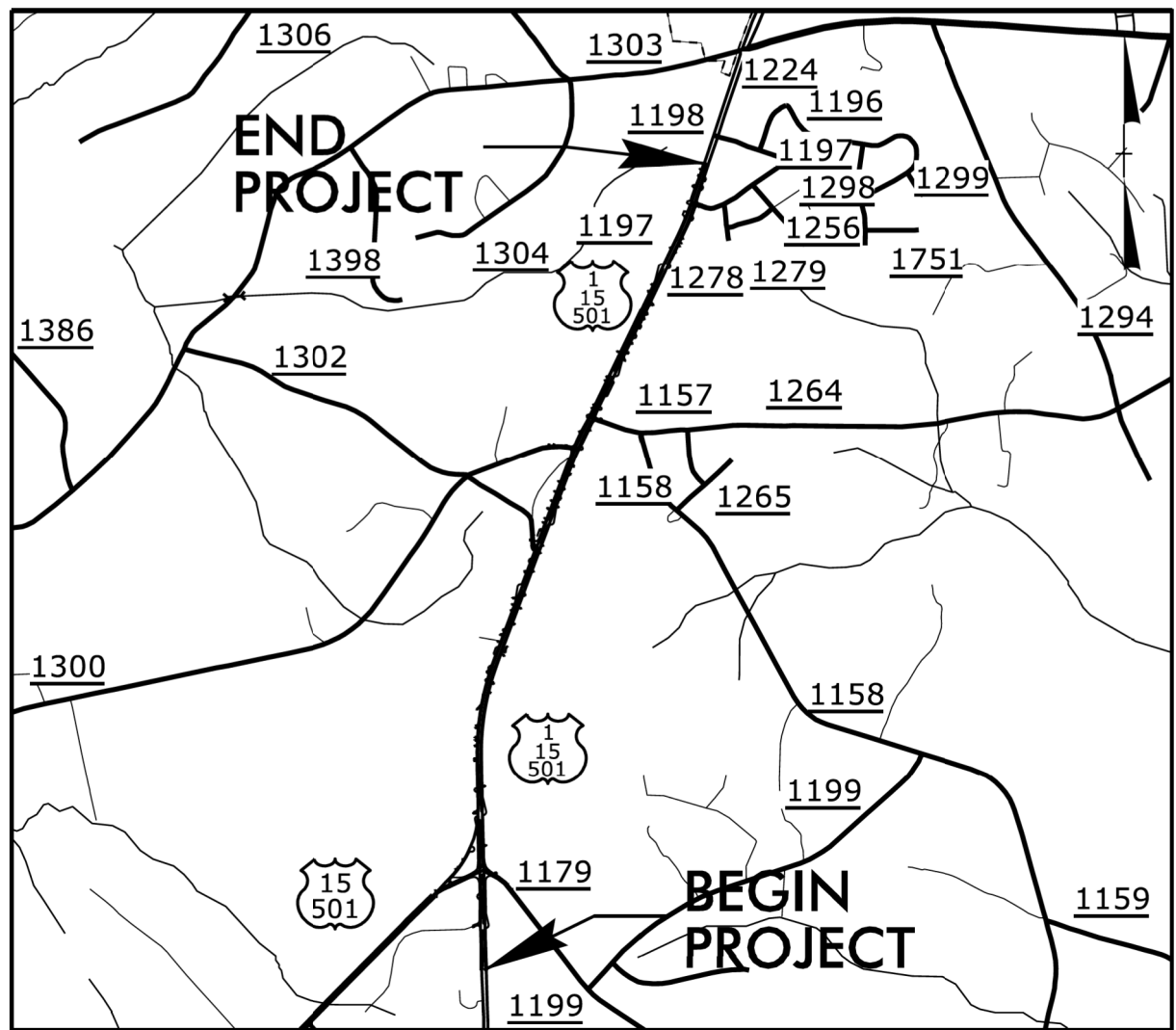
APPROVED: 
DATE: 5/29/2026
SEAL
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TRANSPORTATION
OPERATIONS
PLAN

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5975A	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45963.1.1	N/A	PE	

TIP PROJECT: U-5975A

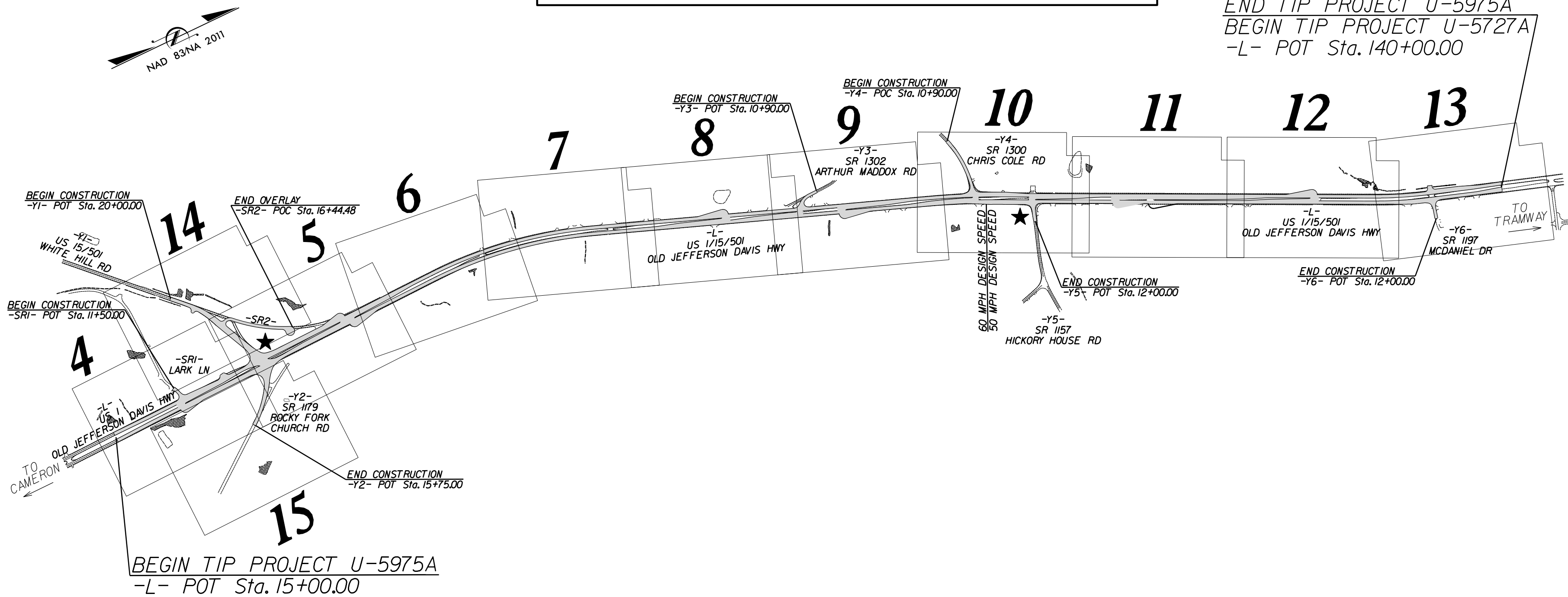


VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
LEE COUNTY

LOCATION: US 1 / 15 / 501 FROM US 15-501 (WHITE HILL RD)
/ SR 1179 (ROCKY FORK CHURCH RD) TO SOUTH
OF SR 1198 (BRYAN DR)
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND SIGNALS

EARLY START CLEARING AND GRUBBING
EROSION CONTROL PLANS



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

GRAPHIC SCALE



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



940 Main Campus Drive, Suite 500
Raleigh, NC 27606
NC License No. C-3705



Prepared in the Office of:

VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

Designed by:

ERIC BERGER, PE
NAME

4036

LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

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

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
U-5975A	EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	
1630.04	Stilling Basin	
1630.05	Temporary Diversion	
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	

Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	
1635.02	Rock Pipe Inlet Sediment Trap Type B	
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	
	Silt Fence Coir Fiber Wattle Break	
1636.03	Excelsior Wattle Barrier	
1636.03	Coir Fiber Wattle Barrier	

PROJECT REFERENCE NO.	SHEET NO.
U-5975A	EC-03
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

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

NAD 83/NA 2011

-YI- POT
-SR2- P
BEGIN OV
N 25°05'

BEGIN TIP PROJECT U-5975A
-L- POT STA.15+00.00

59 x 29 x 3
1.5 inch Skimmer
with 1.250 inch
Orifice Diameter
7 ft. weir
ID 4.2

BEGIN CONSTRUCTION
-SRI- POT STA. 11+50.00
-SRI- PT Sta. 12+58.96

-SRI- PC Sta. 10+00.00
-SRI- PT Sta. 10+79.25
N 63°12' 22.0" E

ASON EDWARD WATKINS
DB 164L PG 798
PB 202L SL 130

-SRI- PC Sta. 11+76.09



-L-LT- POT Sta. 25+00.04=

-L- POT Sta. 25+00.00



-L-RT- POT Sta. 25+00.03
-L- POT Sta. 25+00.00

$$\frac{-L - POT \text{ Sta. } 21+73.09 = -SRI - POT \text{ Sta. } 13+05.62}{N \ 86^{\circ} 56' 49.9'' E}$$

104 x 52 x 3
2 inch Skimmer
with 2.000 inch
Orifice Diameter
21 ft. weir
ID 4.1

MATCHLINE TO SHEET 5
 -L- STA. 28+00.00

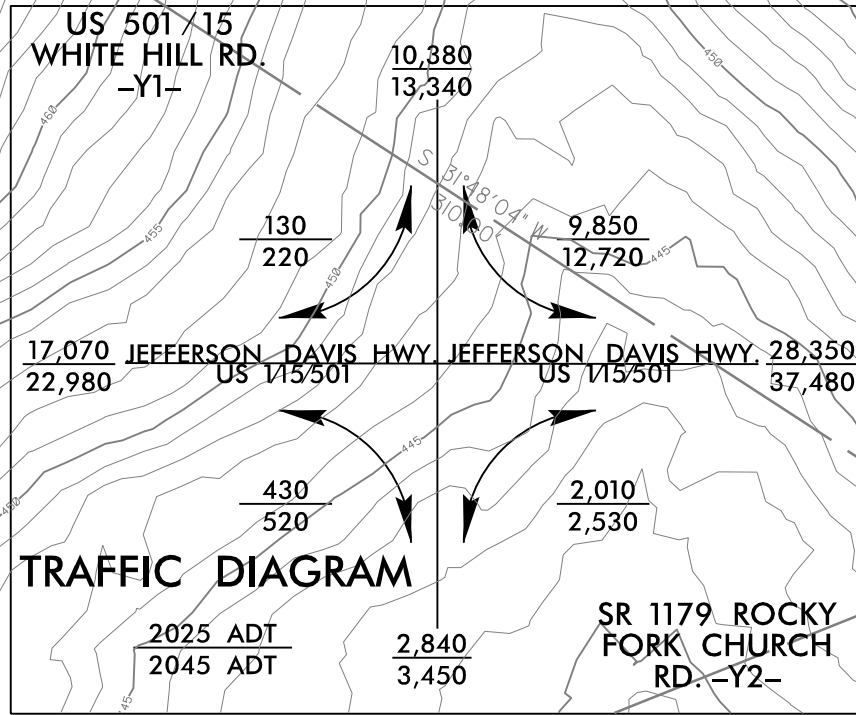
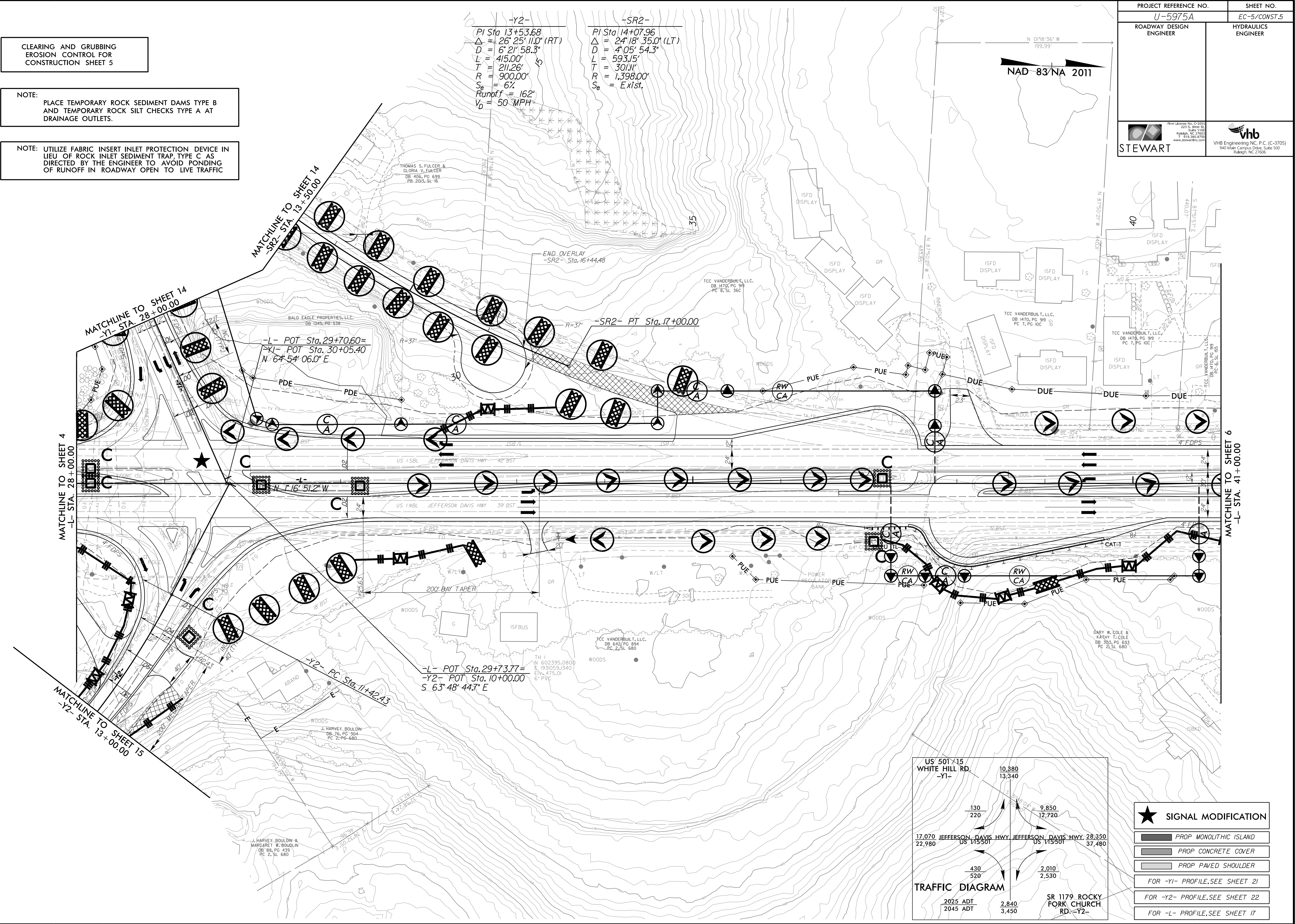
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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

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

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN
LIEU OF ROCK INLET SEDIMENT TRAP, TYPE C AS
DIRECTED BY THE ENGINEER TO AVOID PONDING
OF RUNOFF IN ROADWAY OPEN TO LIVE TRAFFIC



- ★ SIGNAL MODIFICATION
- PROP MONOLITHIC ISLAND
 - PROP CONCRETE COVER
 - PROP PAVED SHOULDER
 - FOR -Y1- PROFILE, SEE SHEET 21
 - FOR -Y2- PROFILE, SEE SHEET 22
 - FOR -L- PROFILE, SEE SHEET 17

PROJECT REFERENCE NO.		SHEET NO.	
U-5975A		EC-5/CONST.5	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 STEWART		 VHB	
Firm License No. C-1101 223 S. West St. Raleigh, NC 27603 T 919.336.9799 www.stewartinc.com		VHB Engineering NC, P.C. (C-3705) 940 Mart Campus Drive, Suite 500 Raleigh, NC 27606	

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

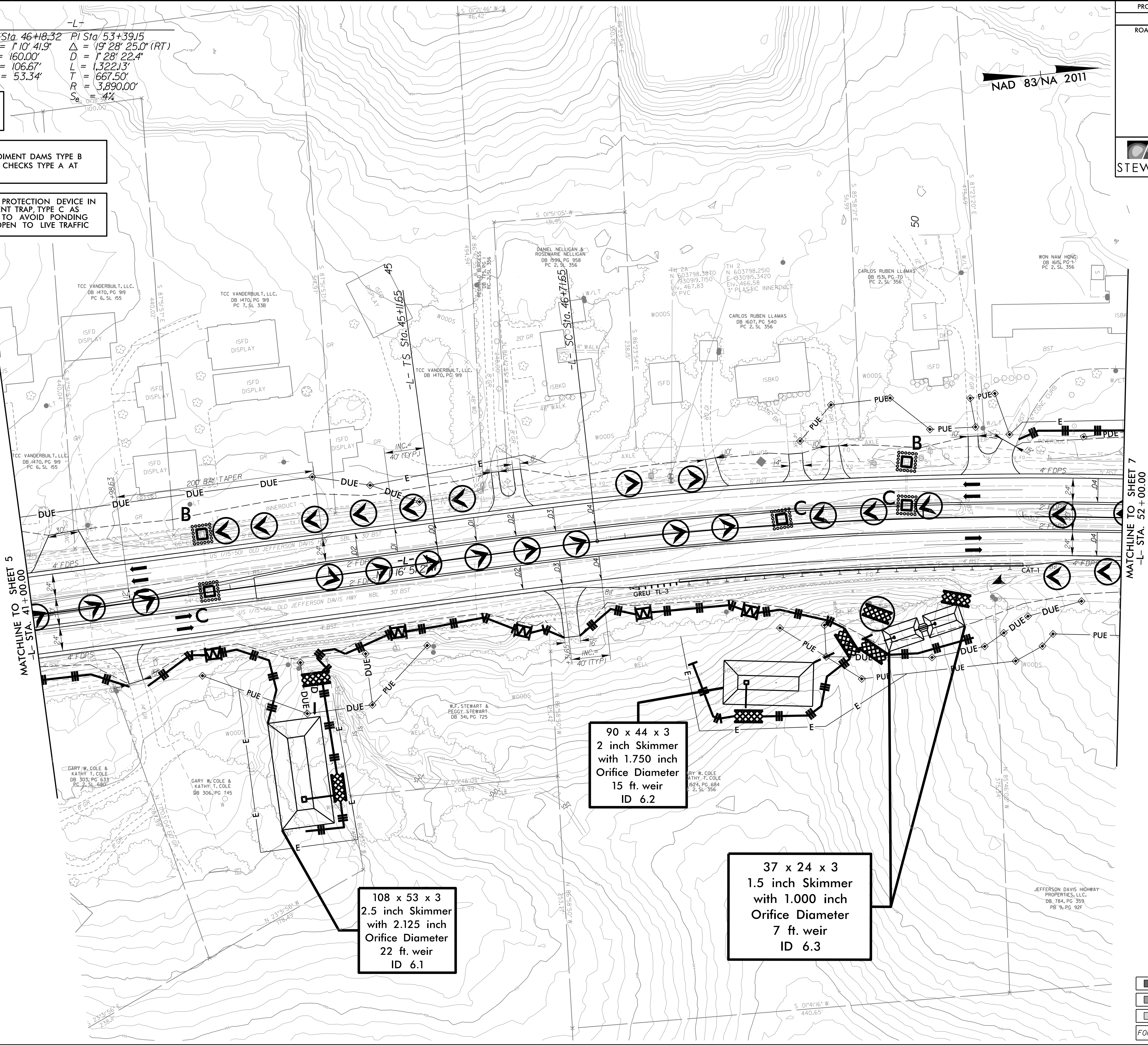
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE B
AND TEMPORARY ROCK SILT CHECKS TYPE A AT
DRAINAGE OUTLETS.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN
LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS
DIRECTED BY THE ENGINEER TO AVOID PONDING
OF RUNOFF IN ROADWAY OPEN TO LIVE TRAFFIC

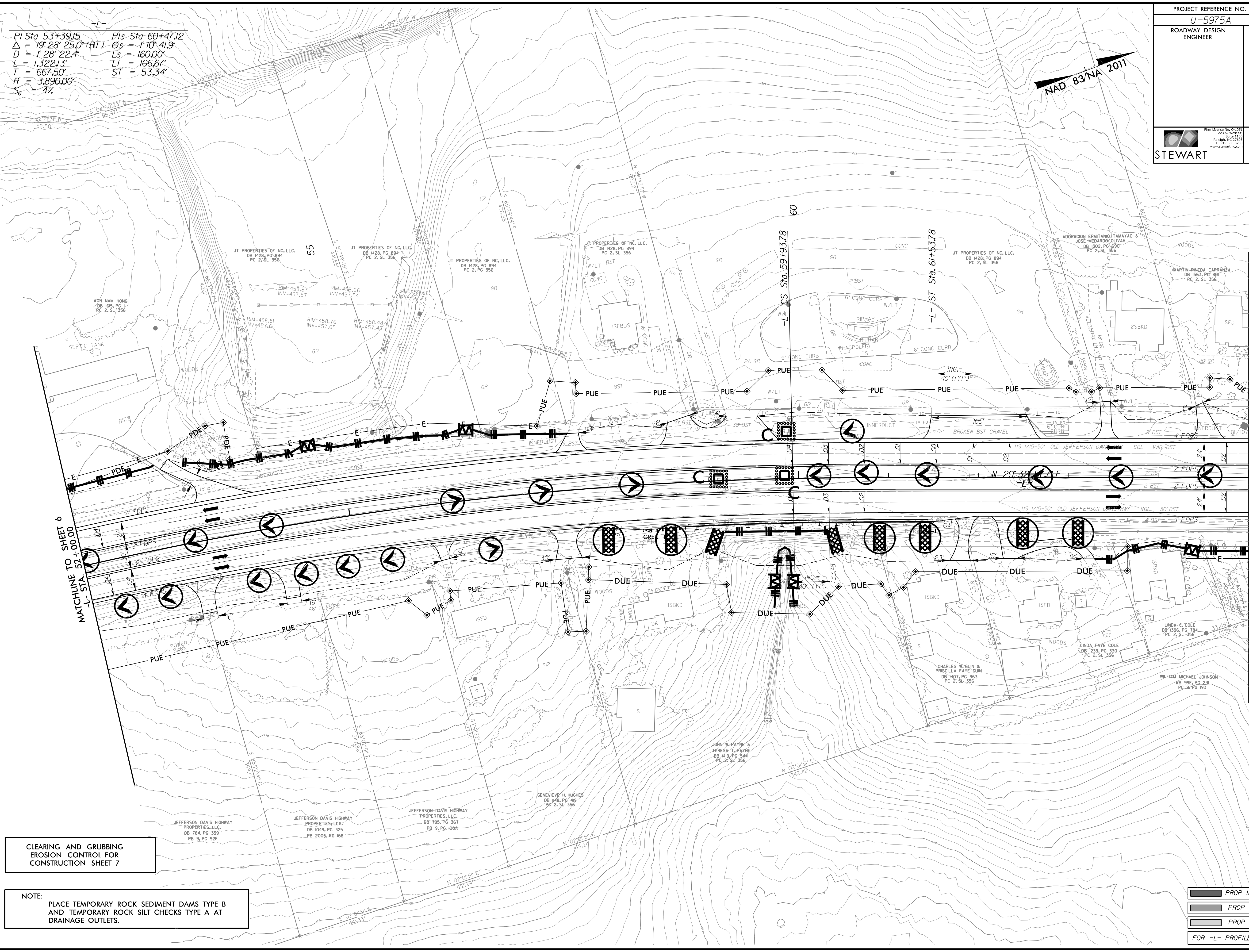
-L-
PI Sta 46+18.32 PI Sta 53+39.15
Δ = 19° 28' 25.0" (RT)
Ls = 160.00' L = 1,322.13'
LT = 106.67' T = 667.50'
ST = 53.34' R = 3,890.00'
Se = 4%

NAD 83/NA 2011

PROJECT REFERENCE NO.		SHEET NO.	
U-5975A		EC-6/CONST.6	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 STEWART		 VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606	



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PROJECT REFERENCE NO.		SHEET NO.
U-5975A		EC-7/CONST.7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
 STEWART		 VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606

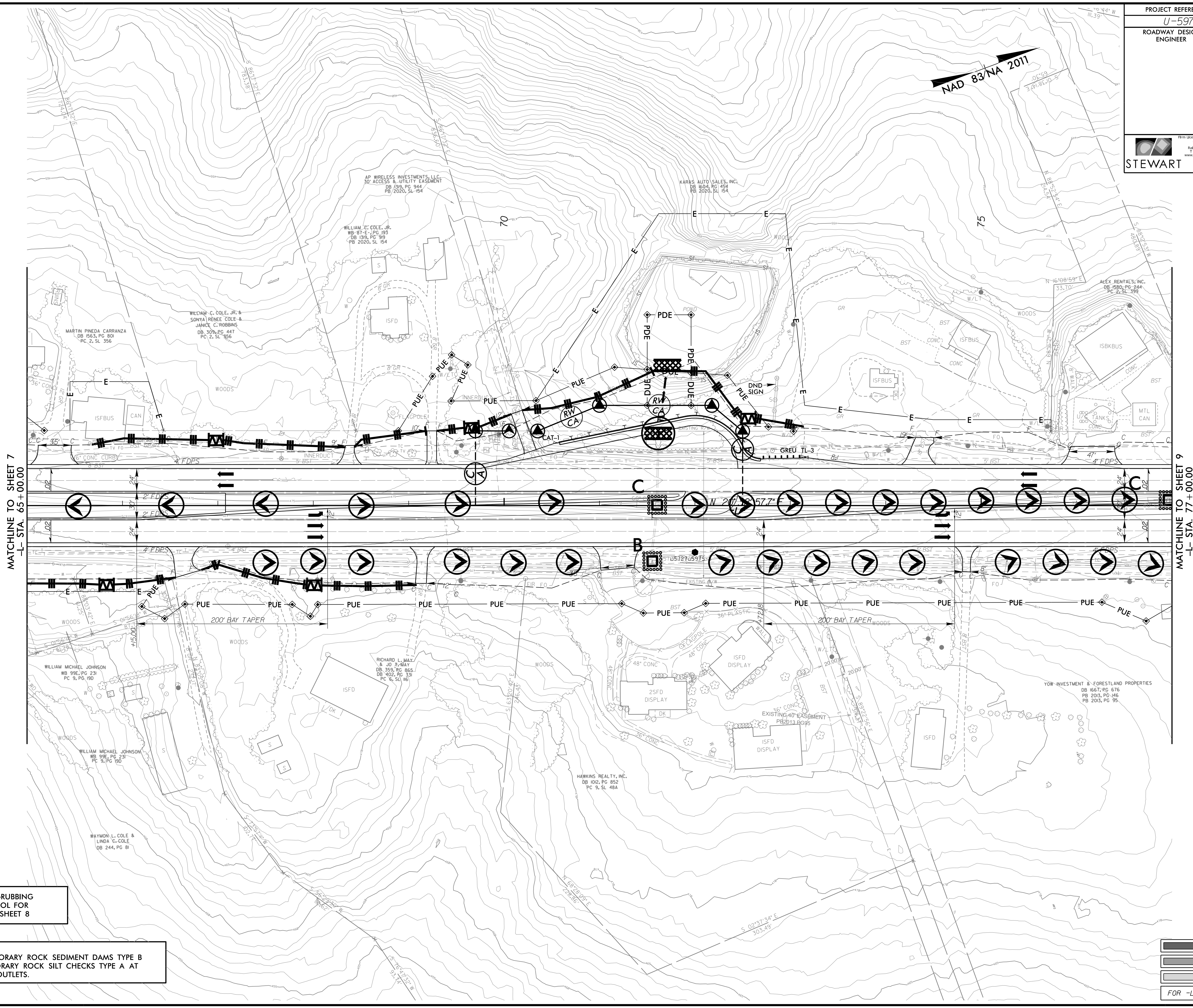
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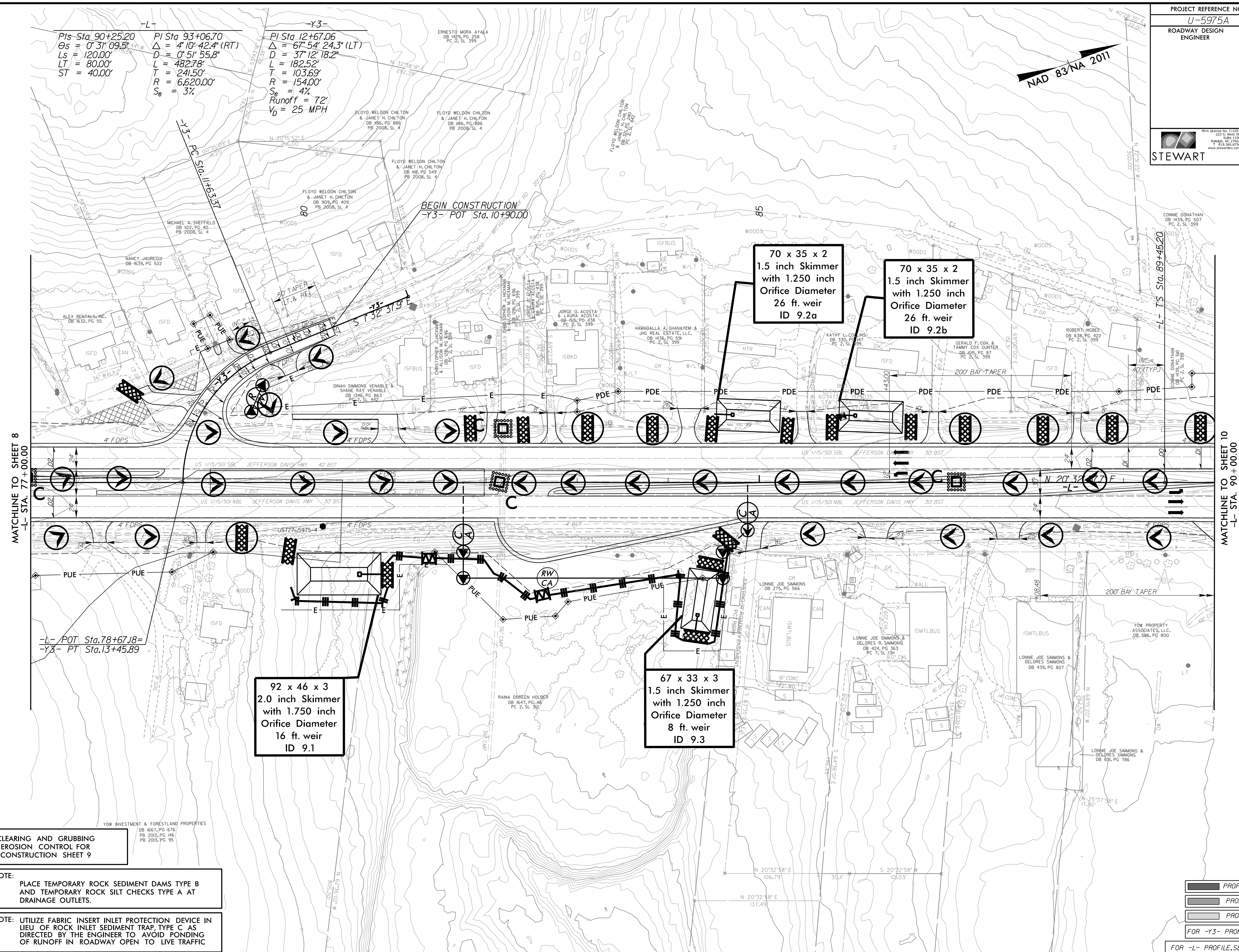
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

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



PROJECT REFERENCE NO.		SHEET NO.
U-5975A		EC-8/CONST.B
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
 STEWART		 VHB VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606

- PROP MONOLITHIC ISLAND
 - PROP CONCRETE COVER
 - PROP PAVED SHOULDER
- FOR -L- PROFILE, SEE SHEET 18

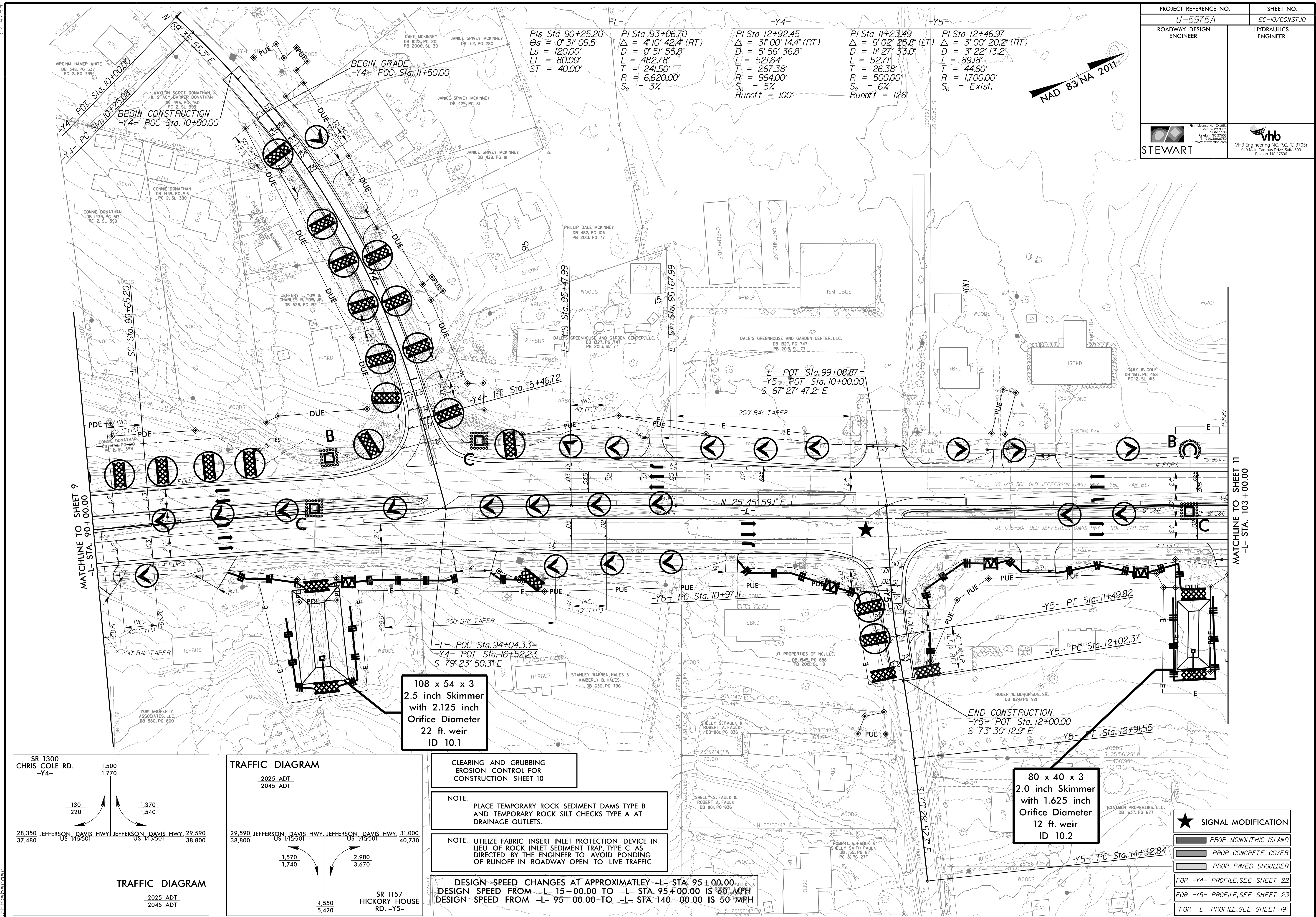


CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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

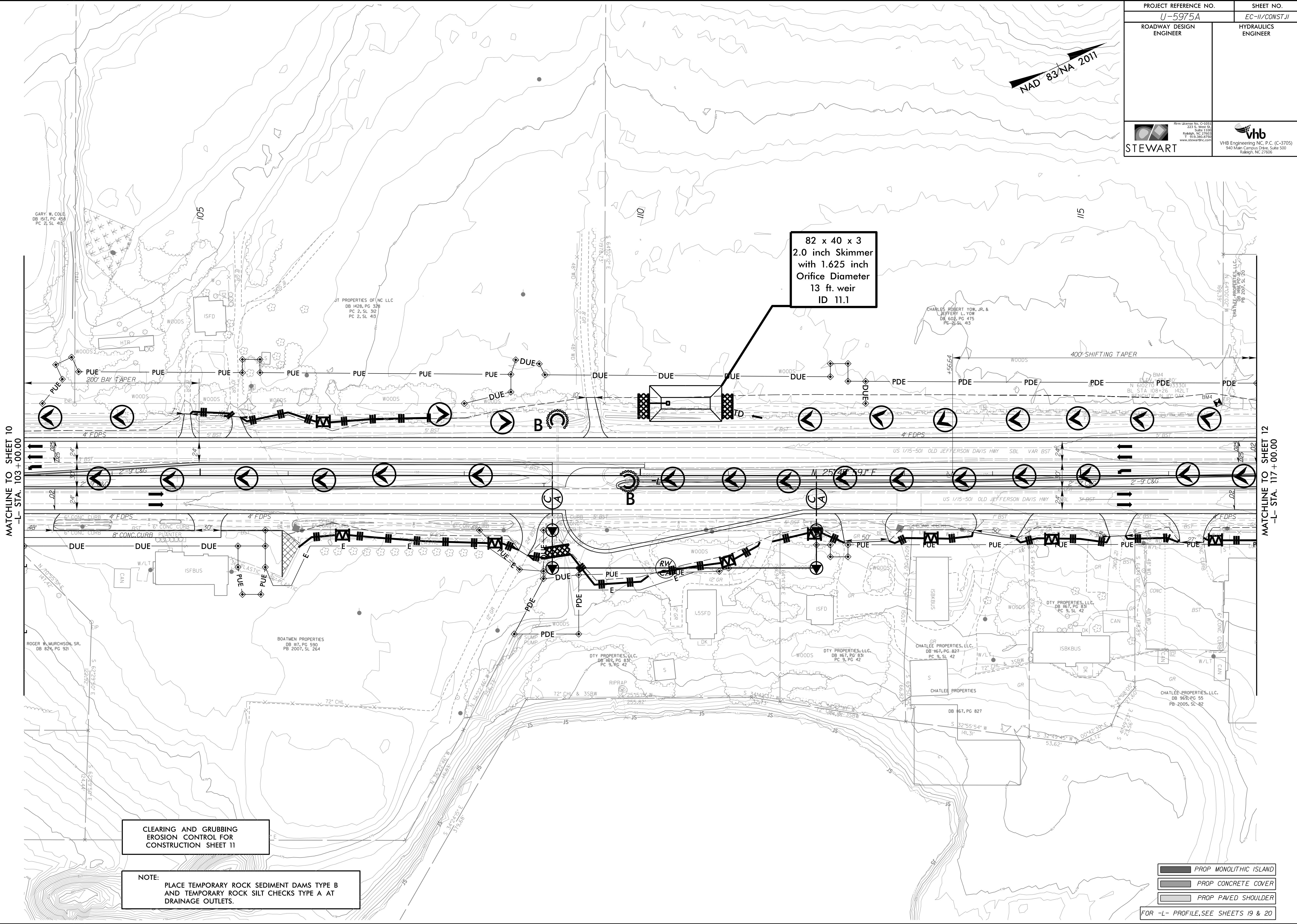
NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE C AS DIRECTED BY THE ENGINEER TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO LIVE TRAFFIC

☐ PROP MONOLITHIC ISLAND
☐ PROP CONCRETE COVER
☐ PROP PAVED SHOULDER
 FOR -Y3- PROFILE, SEE SHEET 22
 OR -L- PROFILE, SEE SHEETS 18 & 19



5/14/99

9/17/2026 UJ5975_Hyd_psh11_CG.dgn
JSE:barbar



PROJECT REFERENCE NO.		SHEET NO.
U-5975A		EC-II/CONST.II
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
 STEWART		 VHB
Firm License No. C-1513 223 S. West St. Raleigh, NC 27603 T: 919.386.9599 www.stewartinc.com		VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606

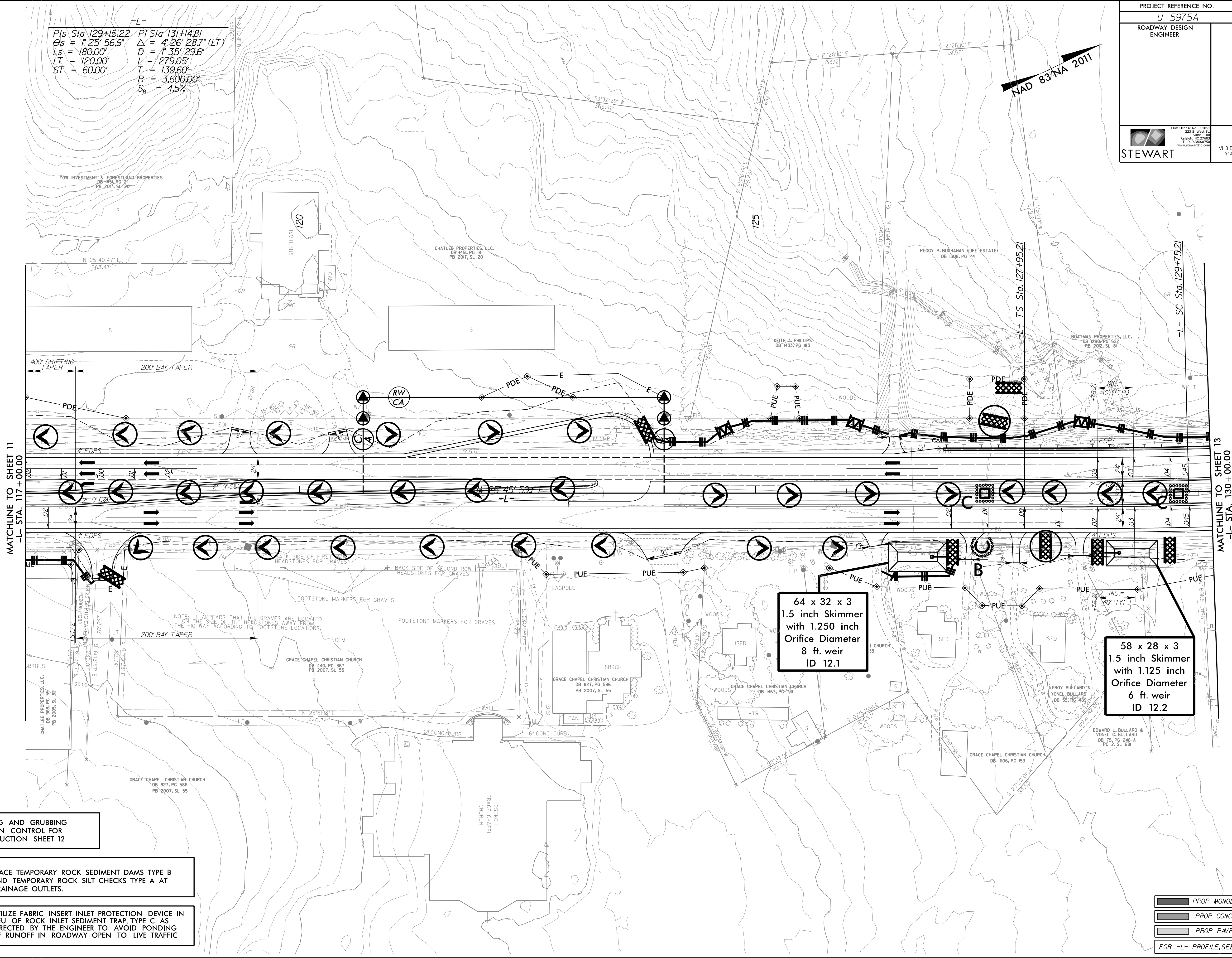
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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

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

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN
LIEU OF ROCK INLET SEDIMENT TRAP, TYPE C AS
DIRECTED BY THE ENGINEER TO AVOID PONDING
OF RUNOFF IN ROADWAY OPEN TO LIVE TRAFFIC



-L-
PI Sta 129+15.22
 $\theta_s = 1^\circ 25' 56.6''$
 $L_s = 180.00'$
 $LT = 120.00'$
 $ST = 60.00'$
PI Sta 131+14.81
 $\Delta = 4^\circ 26' 28.7''$ (LT)
 $D = 1^\circ 35' 29.6''$
 $L = 279.05'$
 $T = 139.60'$
 $R = 3,600.00'$
 $S_e = 4.5\%$

64 x 32 x 3
1.5 inch Skimmer
with 1.250 inch
Orifice Diameter
8 ft. weir
ID 12.1

58 x 28 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 12.2

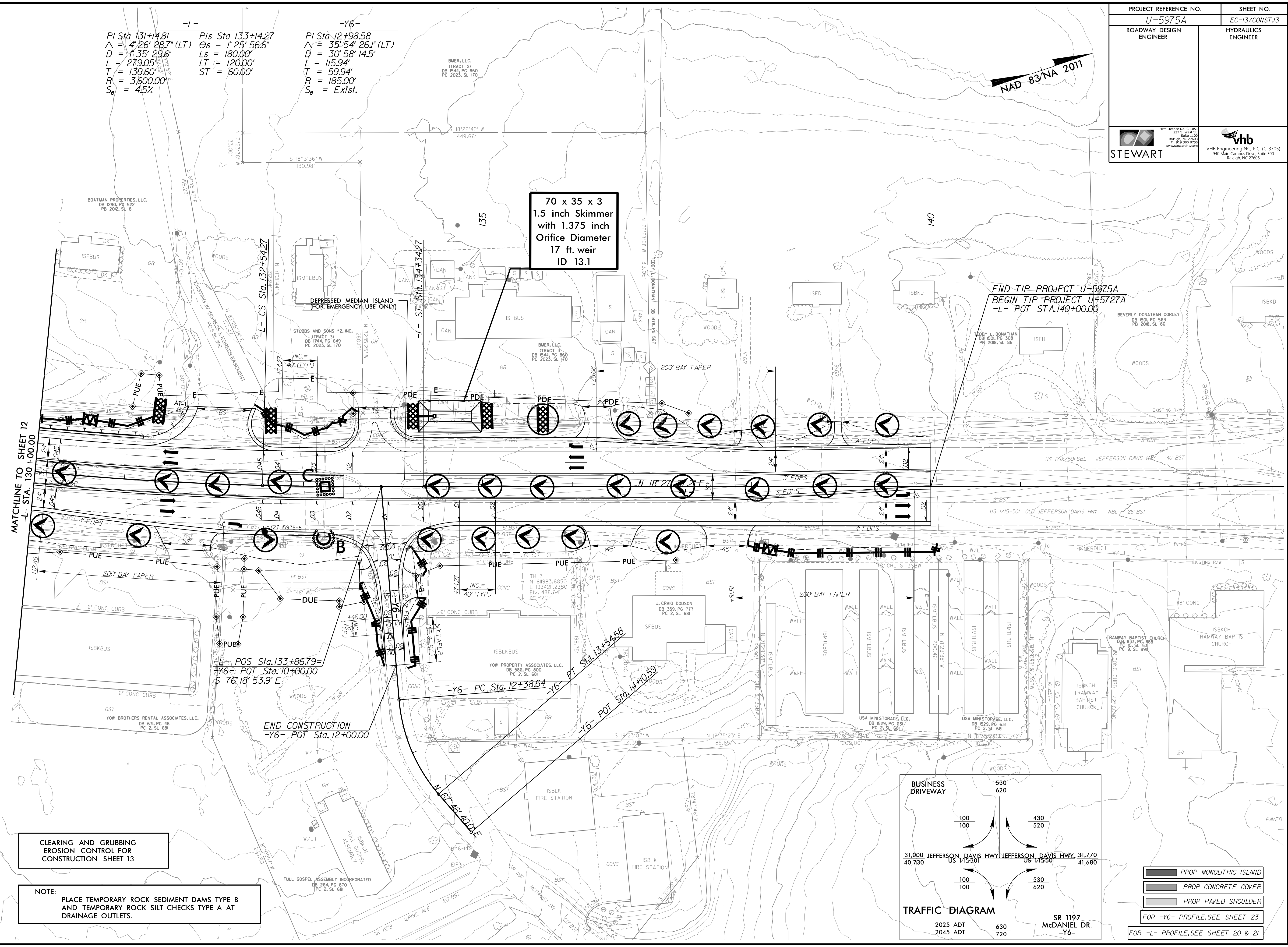
PROPOSED MONOLITHIC ISLAND
PROPOSED CONCRETE COVER
PROPOSED PAVED SHOULDER
FOR -L- PROFILE, SEE SHEET 20

PROJECT REFERENCE NO. U-5975A		SHEET NO. EC-12/CONST-12	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 STEWART		 VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606	

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PROJECT REFERENCE NO. U-5975A		SHEET NO. EC-13/CONST J3	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 STEWART		 VHB VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606	



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PROJECT REFERENCE NO.		SHEET NO.
U-5975A		EC-15/CONST.15
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
 STEWART		 vhb VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606

NAD 83/NA 2011

