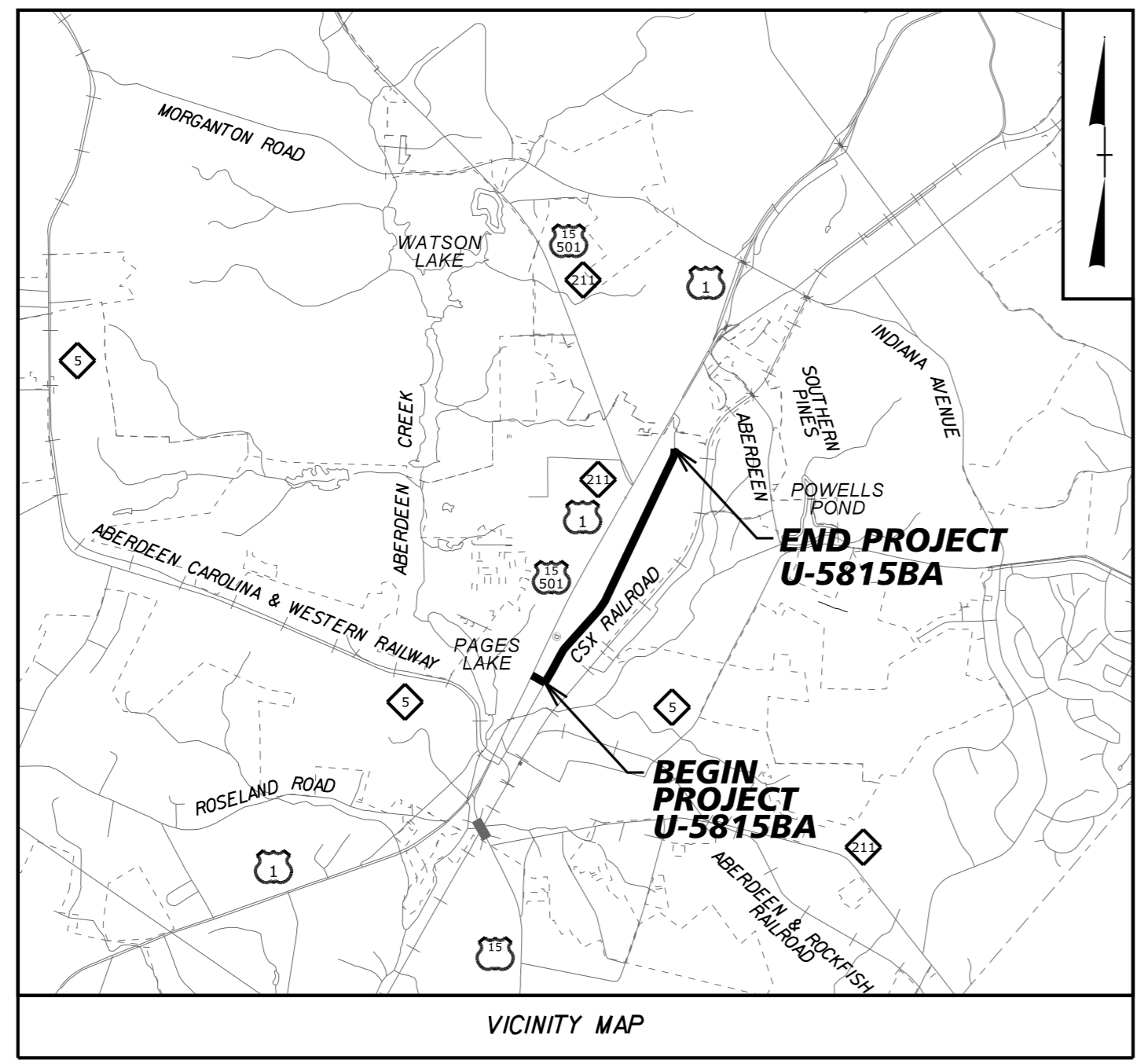


See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Plan Sheet Symbols

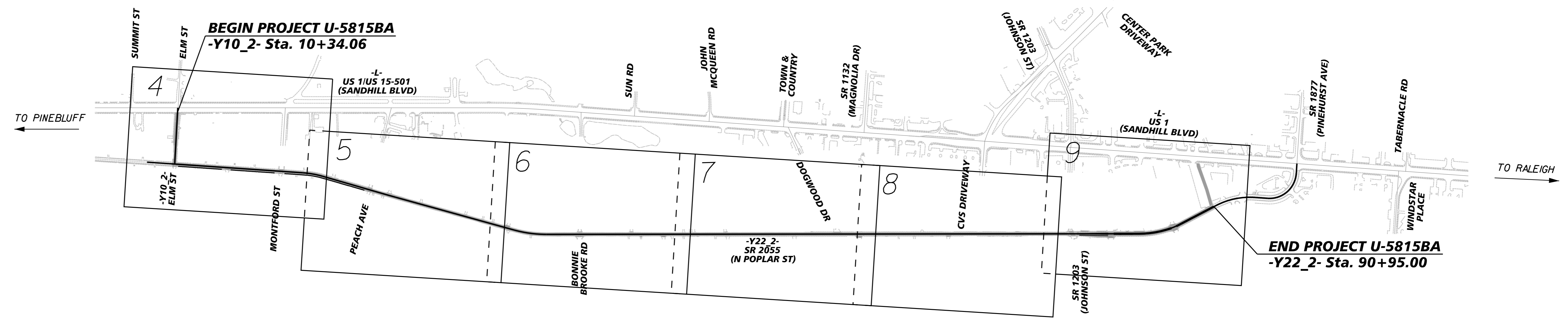
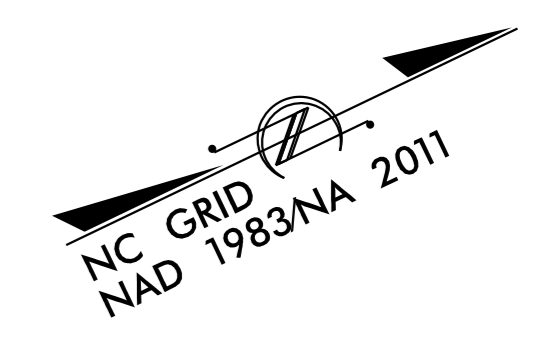
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
MOORE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5815BA	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
54041.1.4		P.E. (U-5815BA)	
54041.3.5		CONST. (U-5815BA)	

TIP PROJECT: U-5815BA

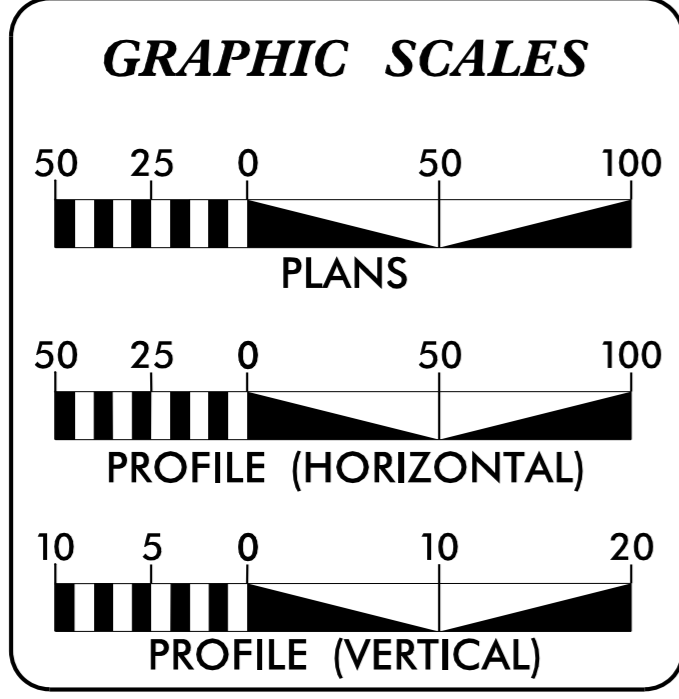


LOCATION: SR 2055 (N POPLAR ST) FROM ELM ST IN ABERDEEN TO 500' NORTH OF BLUES CROSSING LN IN SOUTHERN PINES.
TYPE OF WORK: PAVING AND UTILITY CONSTRUCTION



NCDOT CONTACT: TRAVIS MORGAN, P.E.
DIVISION 8, UTILITY ENGINEER
(910) 773-8030

CONTRACT: C204737



PROJECT LENGTH
LENGTH ROADWAY
TIP PROJECT U-5815BA = 1.453 MILES
TOTAL LENGTH
TIP PROJECT U-5815BA = 1.453 MILES

PLANS PREPARED FOR THE NCDOT BY: **Kimley »Horn**

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: _____

LETTING DATE: May 17, 2022

MATTHEW WEST, PE
PROJECT ENGINEER

SEAN KANE, PE
PROJECT DESIGN ENGINEER

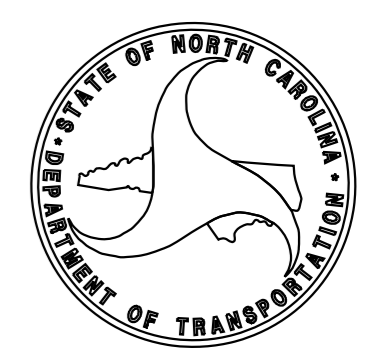
HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER
3/21/2022

MATTHEW WEST, PE
029876
SEAL

SIGNATURE: _____ P.E.



INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
I	TITLE SHEET
IA	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS
IB	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-2	TYPICAL SECTIONS, PAVEMENT SCHEDULE, AND MISCELLANEOUS DETAILS
4 THRU 9	PLAN SHEETS AND EROSION CONTROL PLANS
RWO2C-1 THRU RWO2C-4	SURVEY CONTROL SHEETS
EC-1	EROSION CONTROL TITLE SHEET
PMP-1	PAVEMENT MARKING PLANS
TMP-1 THRU TMP-1B	TRAFFIC MANAGEMENT PLANS
UC-1 THRU UC-14	UTILITY CONSTRUCTION PLANS

GENERAL NOTES

GENERAL NOTES:

2018 SPECIFICATIONS EFFECTIVE: 01-16-2018 REVISED:

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS, WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

LIST OF 2018 ROADWAY STANDARD DRAWINGS

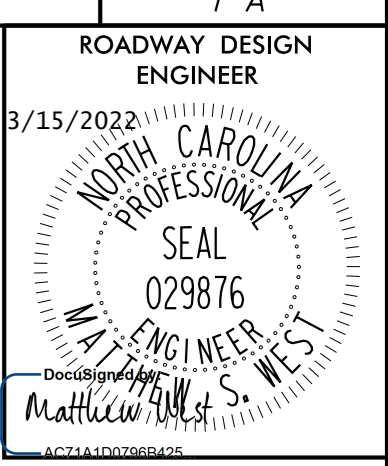
2018 ROADWAY ENGLISH STANDARD DRAWINGS EFF. 01-16-2018 REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N.C. Department of Transportation - Raleigh, N.C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
846.01	Concrete Curb, Gutter and Curb & Gutter
848.02	Driveway Turnout - Radius Type
848.06	Curb Ramp - Existing Curb & Gutter

PROJECT NOTES

1. EXISTING PAVEMENT MARKING TO BE SURVEYED BY CONTRACTOR AND REPLACED IN THE EXISTING CONDITION.



REVISIONS

3/15/2022

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

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Computed Property Corner	----->
Property Monument	□ EDM
Parcel/Sequence Number	(123)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- WLB
Proposed Wetland Boundary	----- WLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
Existing Historic Property Boundary	----- HPB
Known Contamination Area: Soil	☠ -S- ☠
Potential Contamination Area: Soil	?? -S- ??
Known Contamination Area: Water	☠ -W- ☠
Potential Contamination Area: Water	?? -W- ??
Contaminated Site: Known or Potential	☠ ?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□ †
Building	□
School	□
Church	□
Dam	□

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	----- JS
Buffer Zone 1	----- BZ 1
Buffer Zone 2	----- BZ 2
Flow Arrow	←
Disappearing Stream	----->
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	----- RW
New Right of Way Line with Pin and Cap	----- RW ▲
New Right of Way Line with Concrete or Granite RW Marker	----- RW ●
New Control of Access Line with Concrete C/A Marker	----- CA
Existing Control of Access	----- CA
New Control of Access	----- CA
Existing Easement Line	----- E
New Temporary Construction Easement	----- E
New Temporary Drainage Easement	----- TDE
New Permanent Drainage Easement	----- PDE
New Permanent Drainage / Utility Easement	----- DUE
New Permanent Utility Easement	----- PUE
New Temporary Utility Easement	----- TUE
New Aerial Utility Easement	----- AUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	----- CR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	⊗

VEGETATION:

Single Tree	☼
Single Shrub	☼

Note: Not to Scale *S.U.E. = Subsurface Utility Engineering

Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	----- Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	----- CONC
Bridge Wing Wall, Head Wall and End Wall	----- CONC WW
MINOR:	
Head and End Wall	----- CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊙
Storm Sewer	----- S

UTILITIES:

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 LOS B (S.U.E.*)	----- P
U/G Power Line LOS C (S.U.E.*)	----- P
U/G Power Line LOS D (S.U.E.*)	----- P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊙
Telephone Pedestal	□
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	○
U/G Telephone Cable LOS B (S.U.E.*)	----- T
U/G Telephone Cable LOS C (S.U.E.*)	----- T
U/G Telephone Cable LOS D (S.U.E.*)	----- T
U/G Telephone Conduit LOS B (S.U.E.*)	----- TC
U/G Telephone Conduit LOS C (S.U.E.*)	----- TC
U/G Telephone Conduit LOS D (S.U.E.*)	----- TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS C (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS D (S.U.E.*)	----- T FO

WATER:

Water Manhole	⊙
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	----- A/G Water

TV:

TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	○
U/G TV Cable LOS B (S.U.E.*)	----- TV
U/G TV Cable LOS C (S.U.E.*)	----- TV
U/G TV Cable LOS D (S.U.E.*)	----- TV
U/G Fiber Optic Cable LOS B (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS C (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS D (S.U.E.*)	----- TV FO

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	----- G
U/G Gas Line LOS C (S.U.E.*)	----- G
U/G Gas Line LOS D (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊙
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS
SS Forced Main Line LOS D (S.U.E.*)	----- FSS

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	----- ?U/L
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊠ UST
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

REVISIONS

3/15/2022

5/14/99

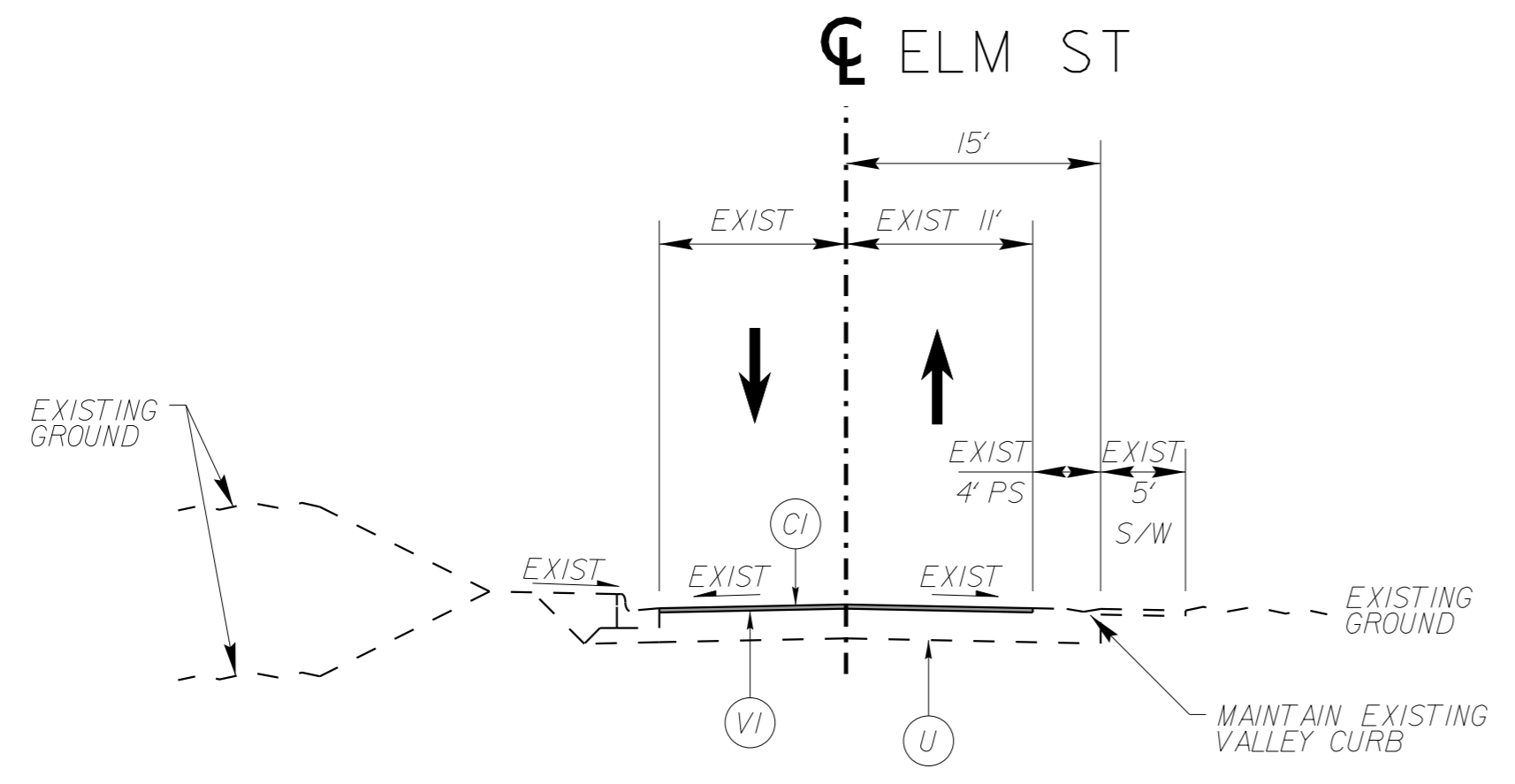
REVISIONS

Kimley Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

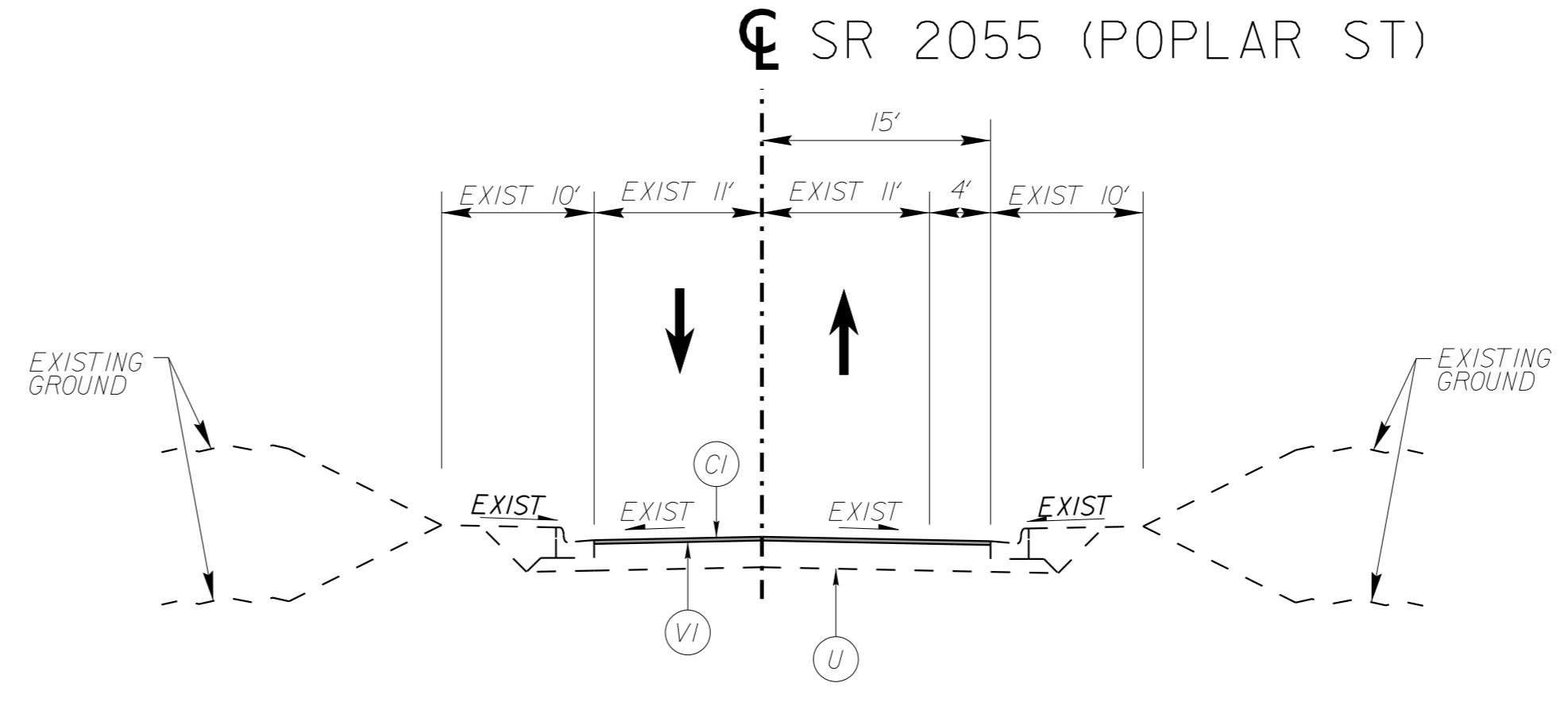
RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO. U-5815BA	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER	
3/15/2022	
NORTH CAROLINA PROFESSIONAL SEAL 029876	
MATTHEW S. WEST	

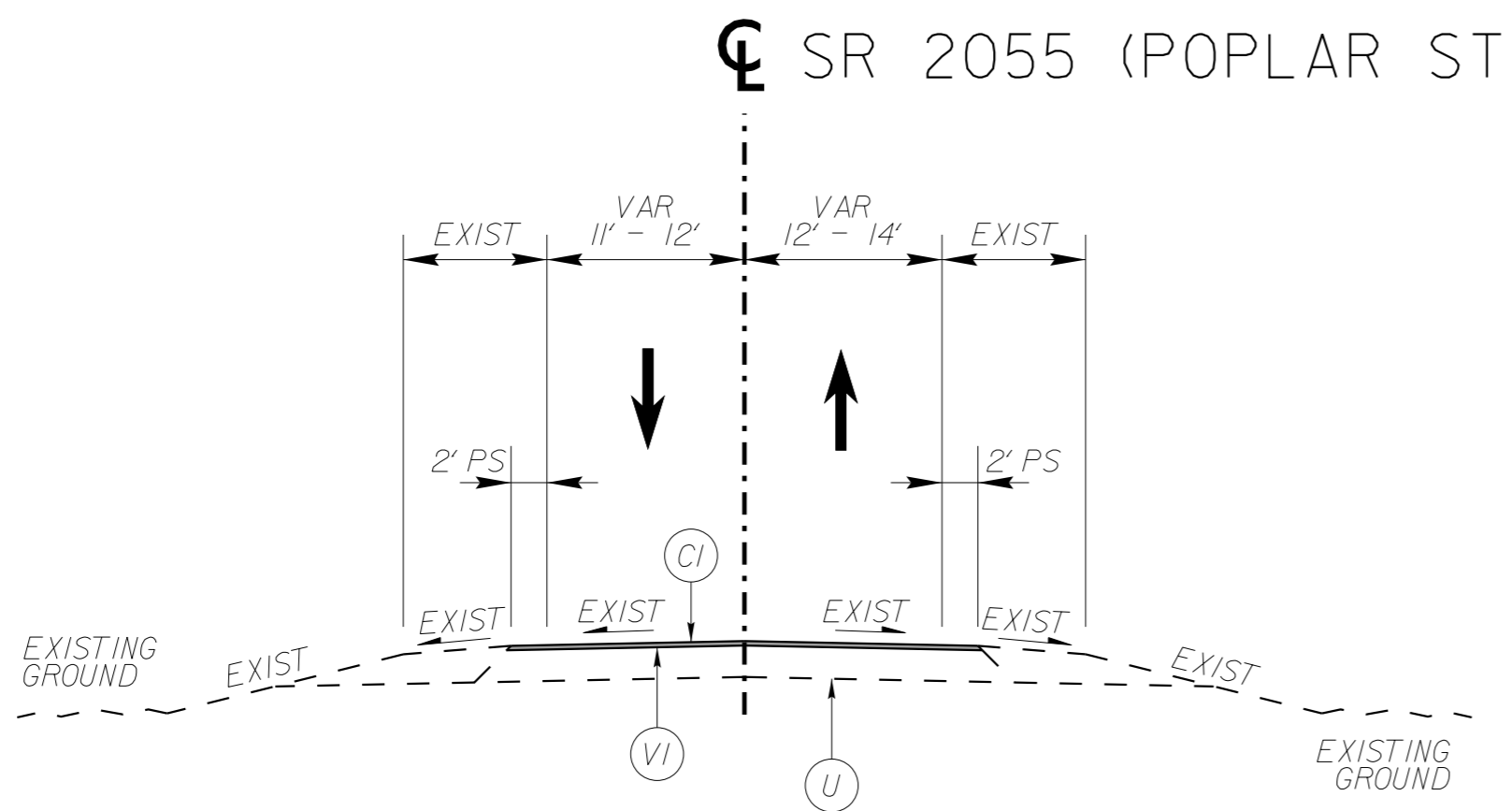


TYPICAL SECTION NO. 1
-Y10_2- STA 10+34.06 TO 12+73.23

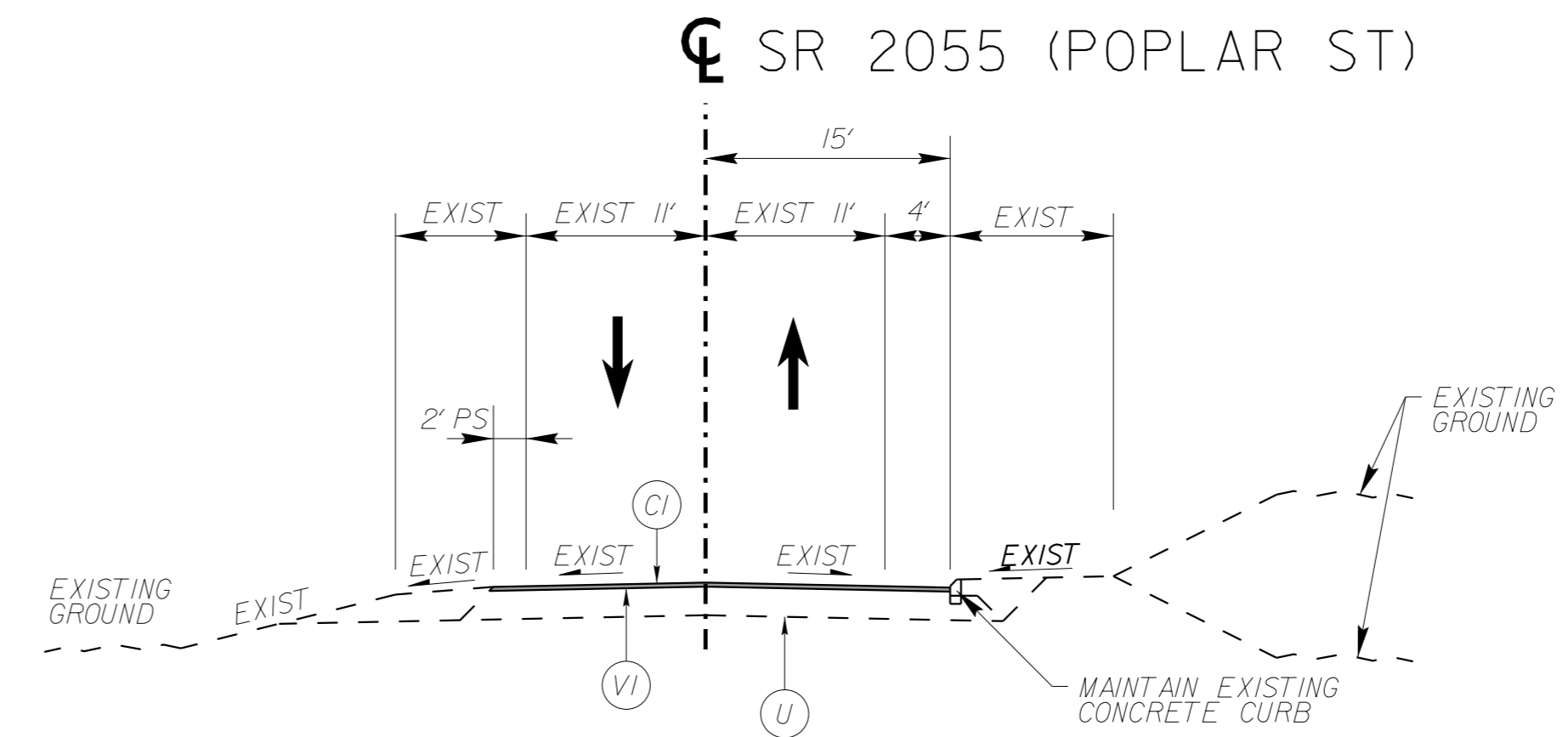
NOTE: CONTRACTOR TO REMOVE AND REPLACE EXISTING ASPHALT SWALE AS NECESSARY TO INSTALL PROPOSED WATERLINE. ASPHALT SWALE TO BE RECONSTRUCTED TO ORIGINAL CONDITION PROVIDING POSITIVE DRAINAGE, OR AS DIRECTED BY THE ENGINEER.



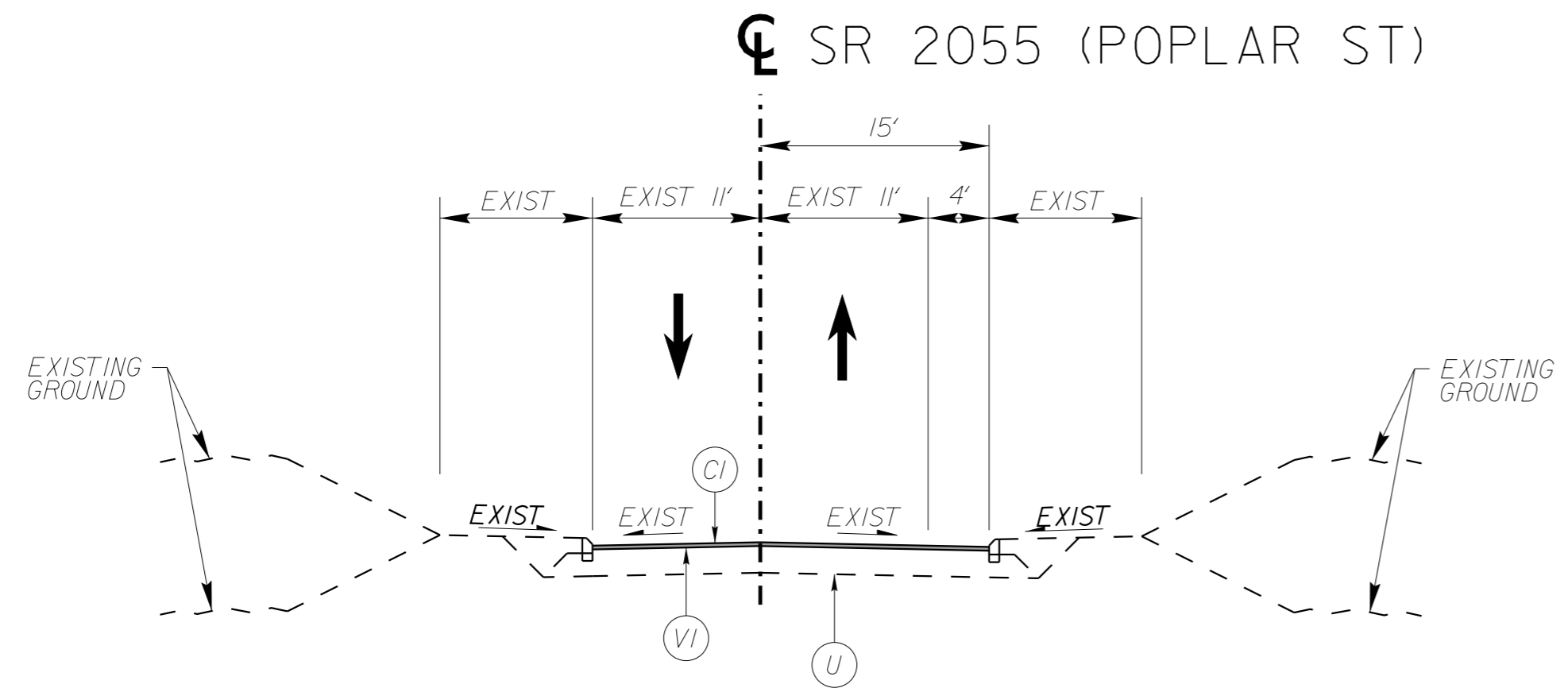
TYPICAL SECTION NO. 2
-Y22_2- STA 14+21.44 TO 26+75.00



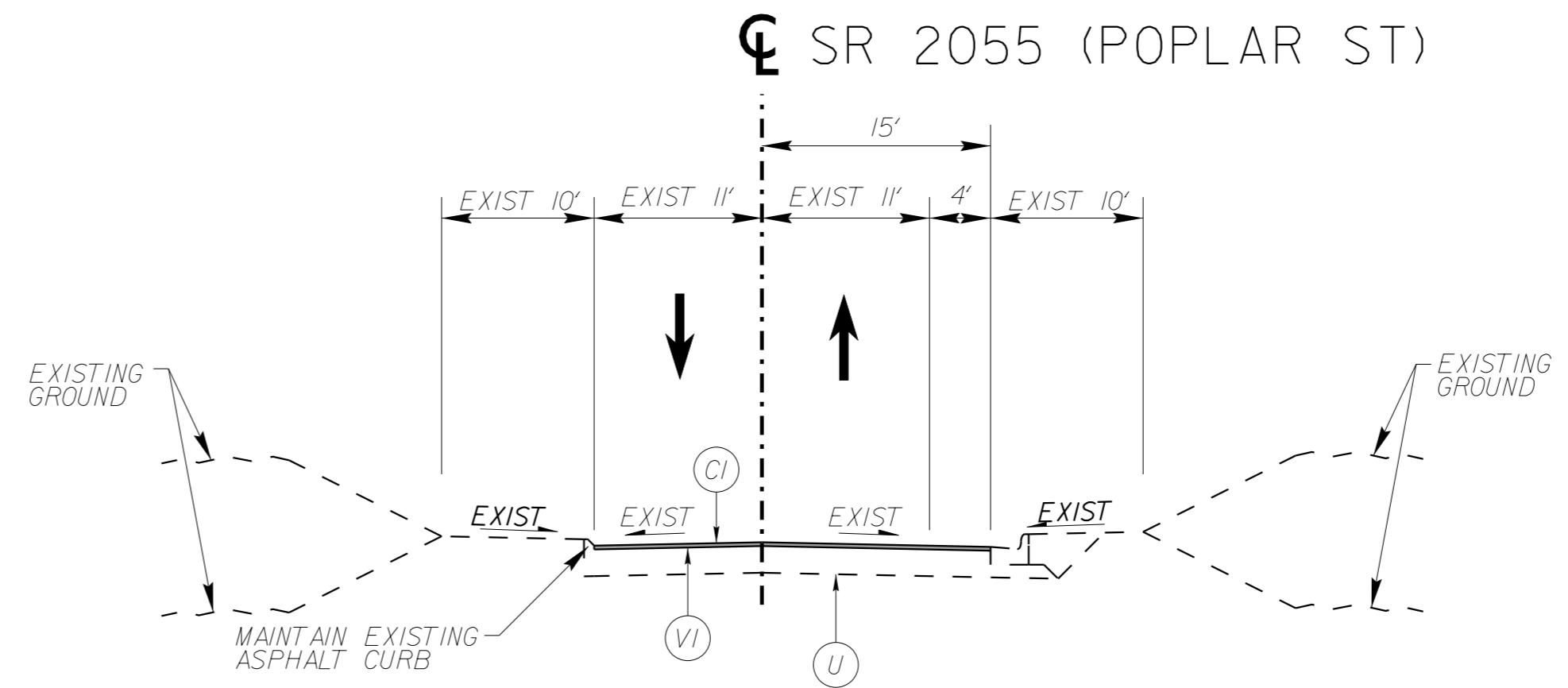
TYPICAL SECTION NO. 3
-Y22_2- STA 26+75.00 TO 54+10.00



TYPICAL SECTION NO. 4
-Y22_2- STA 54+10.00 TO 62+30.00



TYPICAL SECTION NO. 5
-Y22_2- STA 62+30.00 TO 79+75.00



TYPICAL SECTION NO. 6
-Y22_2- STA 79+75.00 TO 90+95.00


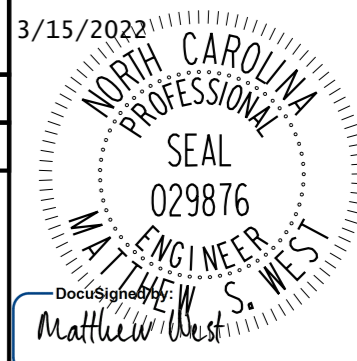
PAVEMENT SCHEDULE	
C1	PROPOSED APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROPOSED APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROPOSED APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROPOSED APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R1	PROPOSED 2'-6" CONCRETE CURB & GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	PROPOSED 15" MILLING

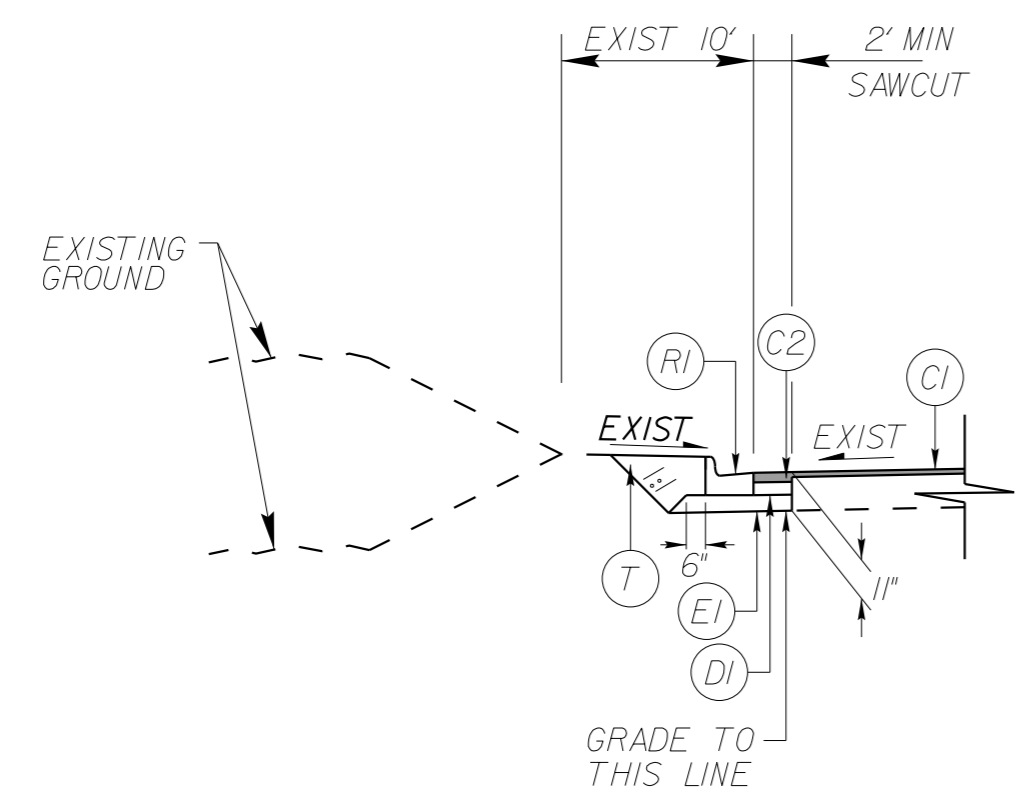
- PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE INDICATED
- ① REPLACE IN PLACE NEW CURB DUE TO DRAINAGE, WATER, AND SANITARY SEWER INSTALLATION.
 - ② SEE PLANS FOR DETAILS OF VARIATIONS TO TYPICAL SECTION WIDTHS DUE TO TURN LANES, ETC.

3/15/2022

5/14/99

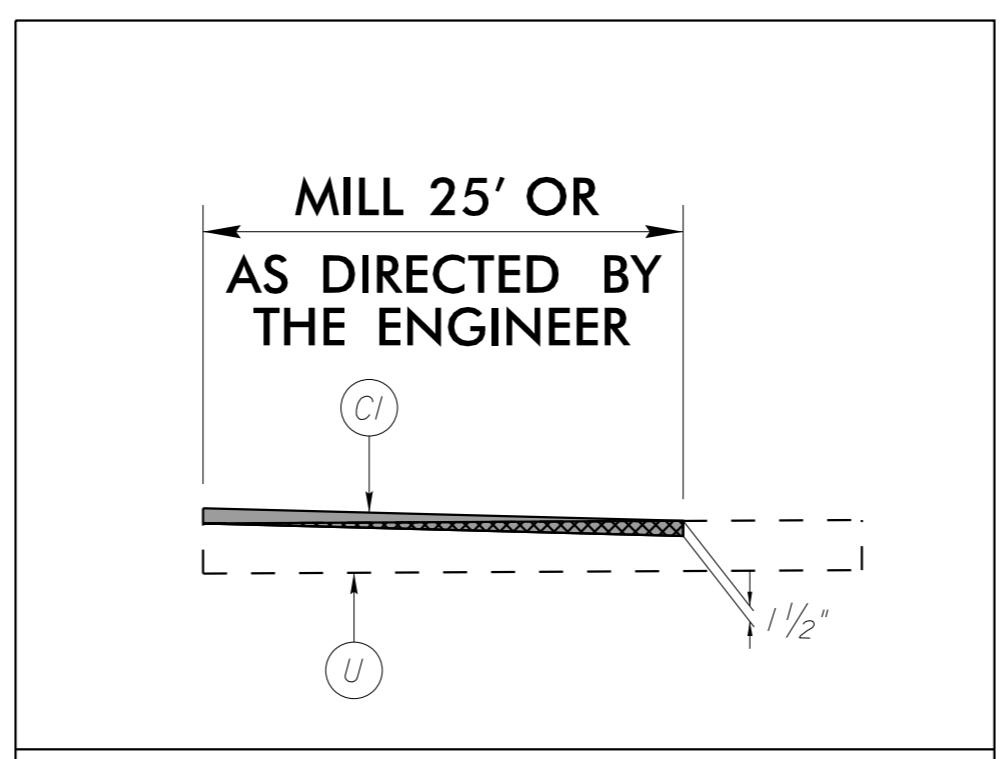
REVISIONS

 <p>421 FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601</p> <p>RIGHT-OF-WAY REV. CONST. REV.</p>	PROJECT REFERENCE NO. U-5815BA	SHEET NO. 2A-2
	ROADWAY DESIGN ENGINEER 3/15/2022  NORTH CAROLINA PROFESSIONAL SEAL 029876 MATTHEW S. WEST, ENGINEER	



SAWCUT DETAIL NO. 1

-L- STA 82+82.36 TO 83+68.63 (RT)
 -Y22_2- STA 21+40.00 TO 22+70.00 (LT)
 -Y22_2- STA 22+84.00 TO 26+71.54 (RT)
 AND AS DIRECTED BY ENGINEER



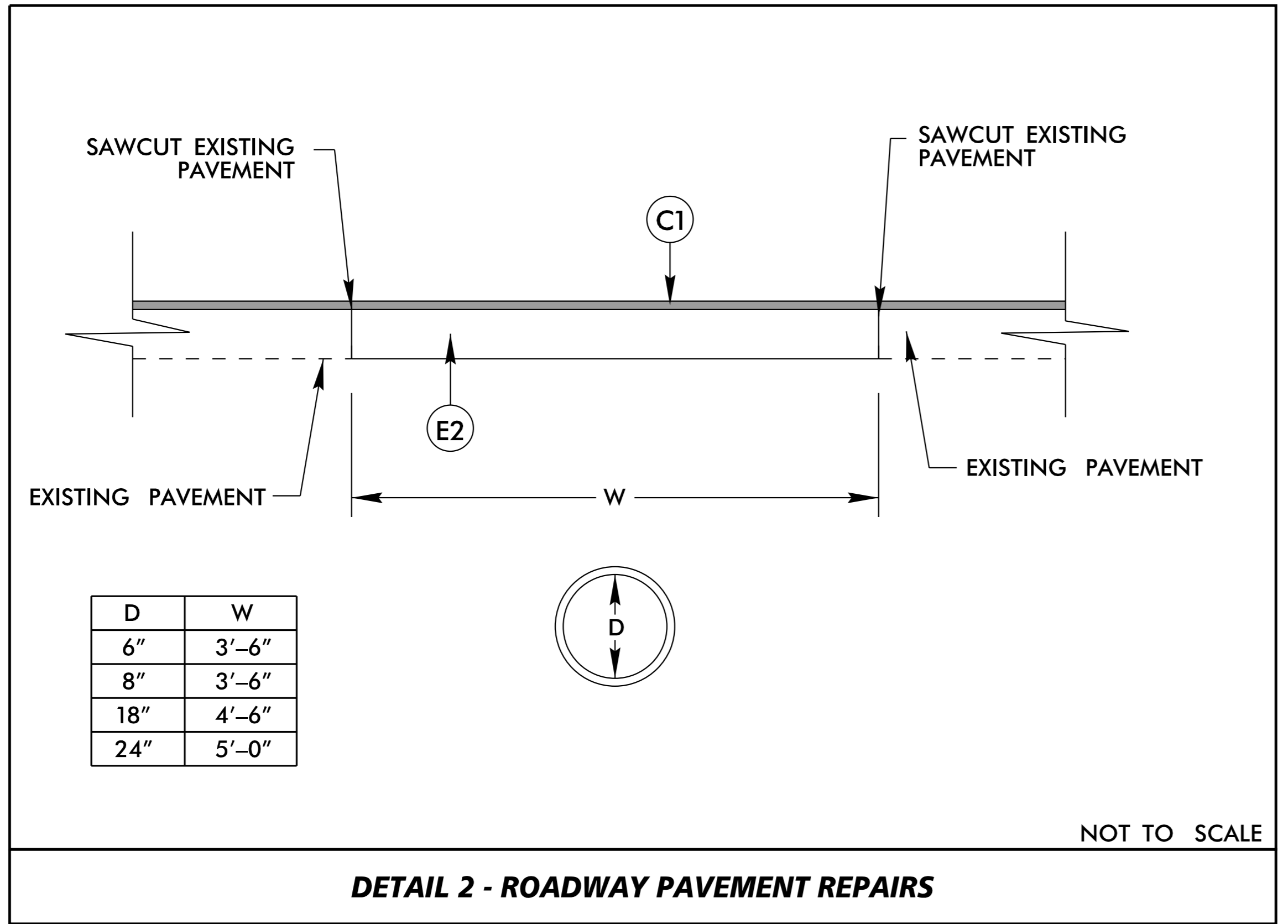
INCIDENTAL MILLING TIE-IN DETAIL

- REPLACE IN PLACE NEW CURB DUE TO DRAINAGE, WATER, AND SANITARY SEWER INSTALLATION.
- INSTALL PAVEMENT REPAIR (E2) FLUSH WITH EXISTING PAVEMENT FOLLOWING PIPE INSTALLATION. FINAL MILL & OVERLAY (C1) TO REMOVE TOP 1.5" OF PAVEMENT REPAIR (E2). FINAL SECTION TO BE 1.5" S9.5C AND 8.5" B25.0C.

PAVEMENT SCHEDULE

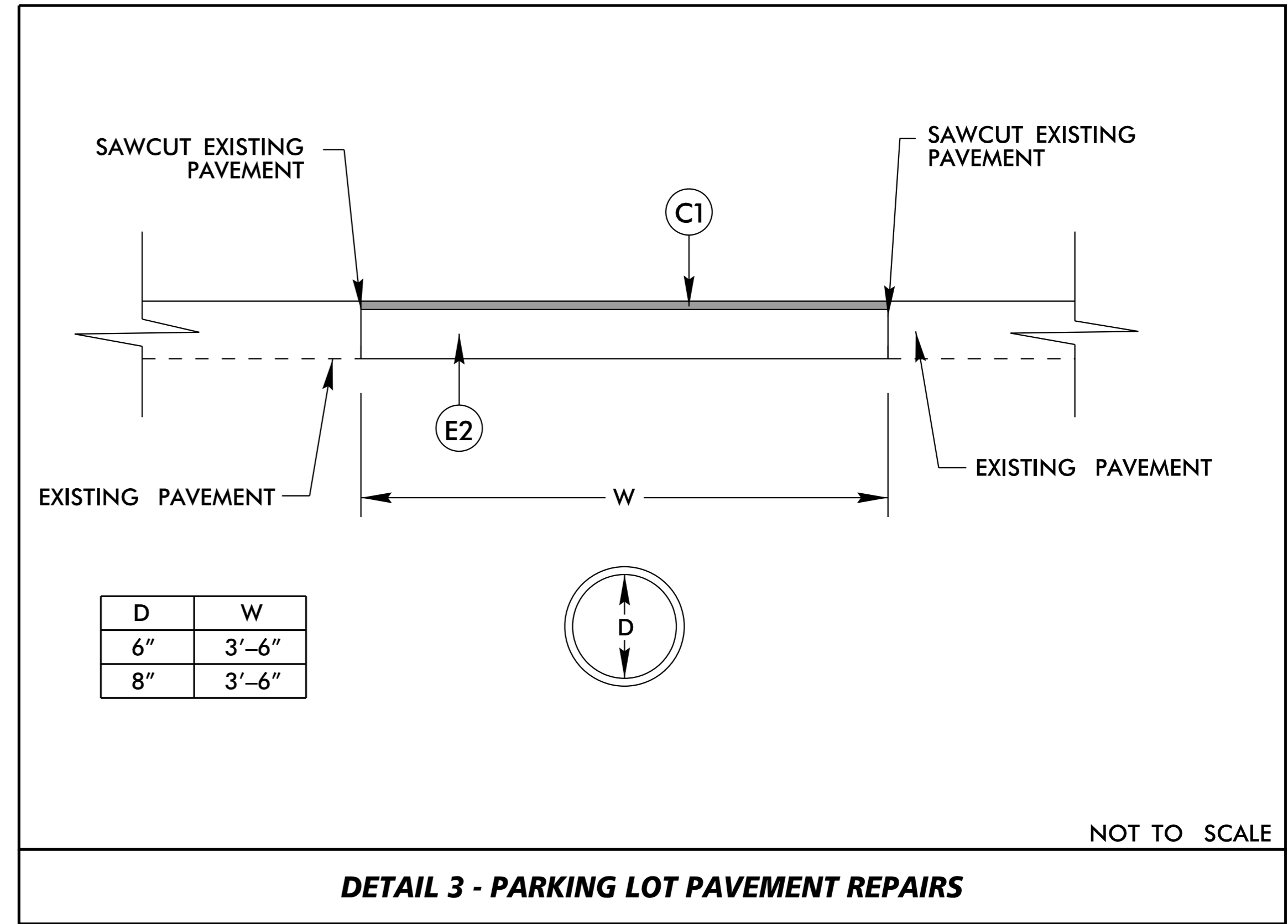
C1	1.5" S9.5C
C2	3" S9.5C
DI	4" 119.0C
E1	4" TYPE B25.0C
E2	10" TYPE B25.0C
RI	2'-6" CONCRETE CURB & GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
VI	1.5" MILLING

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE INDICATED



DETAIL 2 - ROADWAY PAVEMENT REPAIRS

MAKE ROADWAY PAVEMENT REPAIRS WITHIN 3 DAYS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



DETAIL 3 - PARKING LOT PAVEMENT REPAIRS

MAKE PARKING LOT PAVEMENT REPAIRS WITHIN 3 DAYS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

3/15/2022

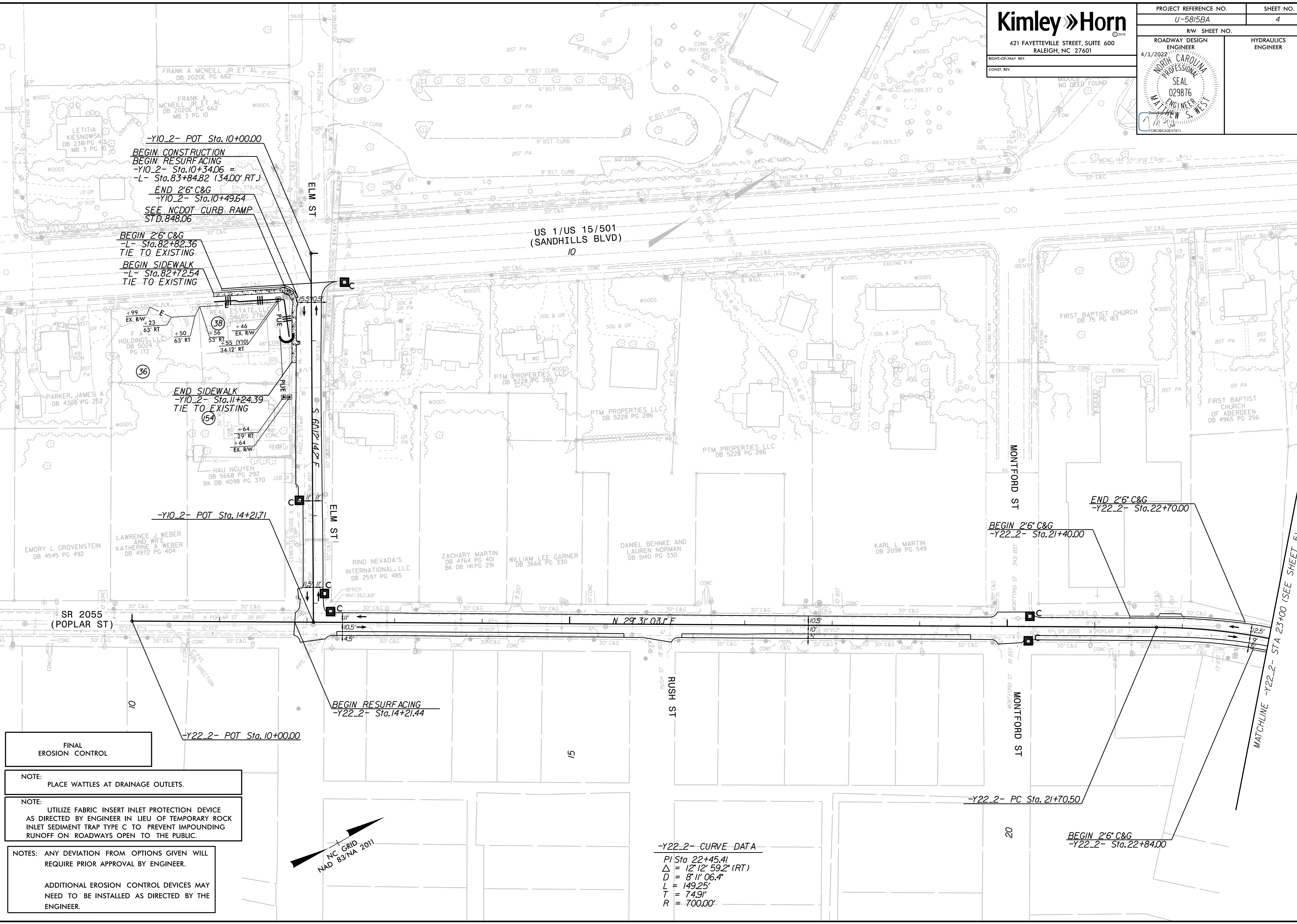
Kimley Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO. U-5815BA	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 4/1/2022	HYDRAULICS ENGINEER

REVISIONS



-Y10_2- POT Sta.10+00.00
 BEGIN CONSTRUCTION
 BEGIN RESURFACING
 -Y10_2- Sta.10+34.06 =
 -L- Sta.83+84.82 (34.00' RT.)
 END 2'6" C&G
 -Y10_2- Sta.10+49.64
 SEE NCDOT CURB RAMP
 STD.848.06

BEGIN 2'6" C&G
 -L- Sta.82+82.36
 TIE TO EXISTING
 BEGIN SIDEWALK
 -L- Sta.82+72.54
 TIE TO EXISTING

END SIDEWALK
 -Y10_2- Sta.11+24.39
 TIE TO EXISTING

-Y10_2- POT Sta.14+21.71

BEGIN RESURFACING
 -Y22_2- Sta.14+21.44

-Y22_2- POT Sta.10+00.00

END 2'6" C&G
 -Y22_2- Sta.22+70.00

BEGIN 2'6" C&G
 -Y22_2- Sta.21+40.00

-Y22_2- PC Sta.21+70.50

BEGIN 2'6" C&G
 -Y22_2- Sta.22+84.00

-Y22_2- CURVE DATA
 PI Sta 22+45.41
 $\Delta = 12'12" 59.2" (RT)$
 $D = 8'11" 06.4"$
 $L = 149.25'$
 $T = 74.9'$
 $R = 700.00'$

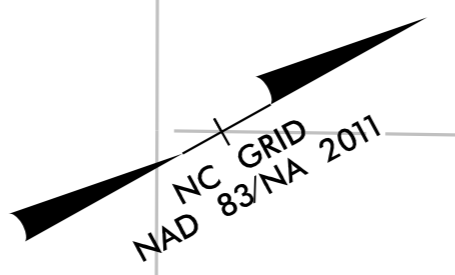
FINAL
EROSION CONTROL

NOTE:
PLACE WATTLES AT DRAINAGE OUTLETS.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF TEMPORARY ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.



5/14/2022

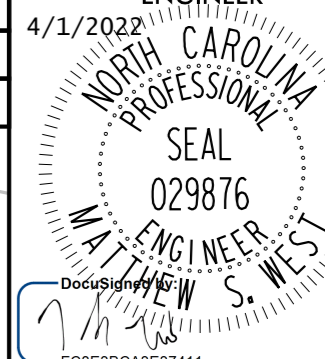
4/1/2022

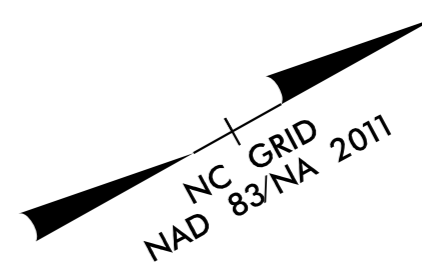
MATCHLINE -Y22_2- STA 23+00 (SEE SHEET 5)

5/14/2022

Kimley»Horn
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NC 27601

RIGHT-OF-WAY REV.
 CONST. REV.

PROJECT REFERENCE NO. U-5815BA	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 4/1/2022	HYDRAULICS ENGINEER
	



REVISIONS

FINAL EROSION CONTROL

NOTE: PLACE WATTLES AT DRAINAGE OUTLETS.

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF TEMPORARY ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

-Y22_2- CURVE DATA

<i>PI Sta 22+45.41</i>	<i>PI Sta 28+07.01</i>
$\Delta = 12^{\circ} 12' 59.2''$ (RT)	$\Delta = 0^{\circ} 40' 29.8''$ (LT)
<i>D = 8' 11' 06.4''</i>	<i>D = 0' 24' 33.3''</i>
<i>L = 149.25'</i>	<i>L = 164.92'</i>
<i>T = 74.9'</i>	<i>T = 82.46'</i>
<i>R = 700.00'</i>	<i>R = 14,000.00'</i>

4/1/2022

5/14/22

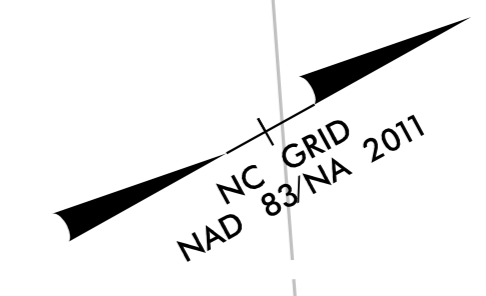
JB INVESTMENTS LLC
DB 4951 PG 574
BK DB 2872 PG 218
MB 3 PG 26

WEBB INVESTMENT
PROPERTIES, LLC
DB 4223 PG 591
MB 3 PG 26

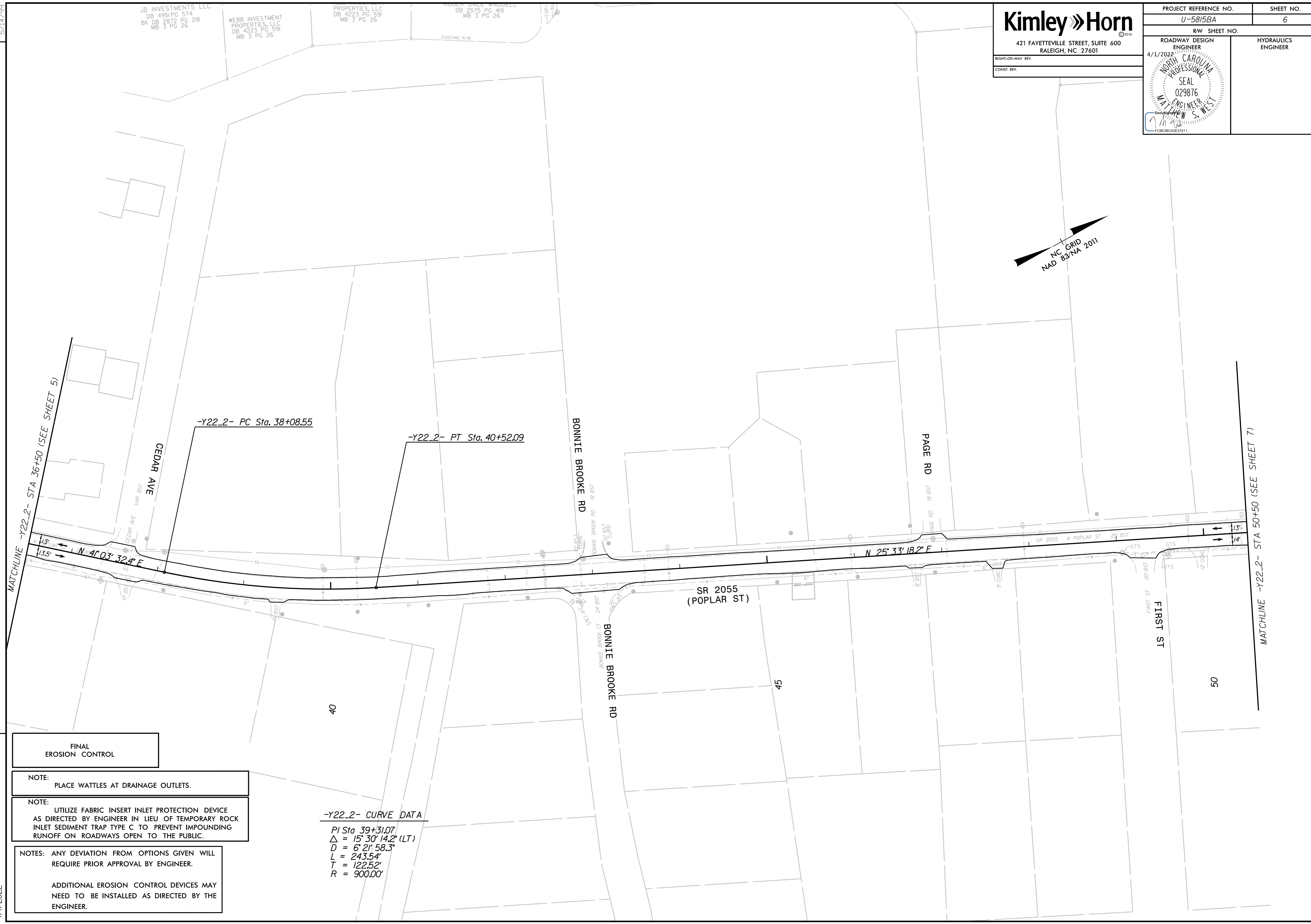
PROPERTIES, LLC
DB 4223 PG 591
MB 3 PG 26

ROOFTOP DRAINAGE
DB 2575 PG 419
MB 3 PG 26

PROJECT REFERENCE NO. U-5815BA		SHEET NO. 6
RW SHEET NO.		
ROADWAY DESIGN ENGINEER 4/1/2022		HYDRAULICS ENGINEER
421 FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601 RIGHT-OF-WAY REV. CONST. REV.		



REVISIONS



FINAL EROSION CONTROL

NOTE: PLACE WATTLES AT DRAINAGE OUTLETS.

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF TEMPORARY ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

-Y22.2- CURVE DATA
 PI Sta 39+31.07
 Δ = 15° 30' 14.2" (LT)
 D = 6' 21" 58.3"
 L = 243.54'
 T = 122.52'
 R = 900.00'

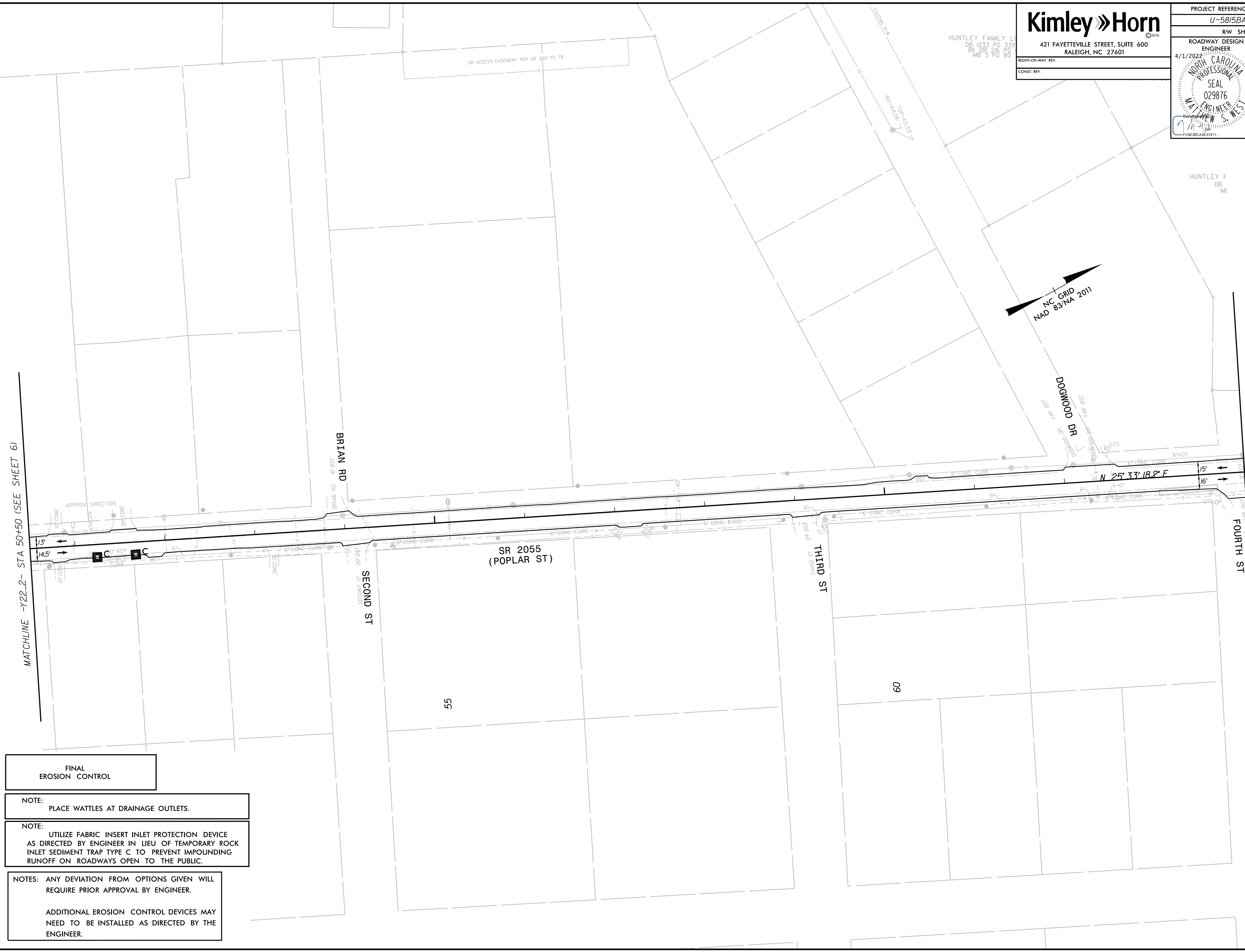
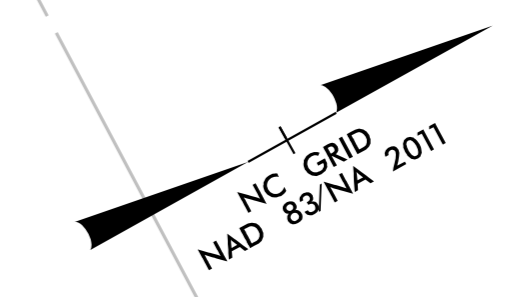
4/1/2022

PROJECT REFERENCE NO. <i>U-5815BA</i>	SHEET NO. 7
RW SHEET NO. 4/1/2022	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HUNTLEY FAMILY LI
DB 1233 PG 339
BK DB 26 PG
MB 3 PG 80

RIGHT-OF-WAY REV.
CONST. REV.

HUNTLEY F
DB
ME



REVISIONS

MATCHLINE -Y22-2- STA 50+50 (SEE SHEET 6)

MATCHLINE -Y22-2- STA 64+00 (SEE SHEET 8)

FINAL
EROSION CONTROL

NOTE:
PLACE WATTLES AT DRAINAGE OUTLETS.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF TEMPORARY ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

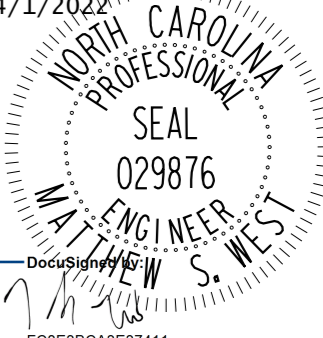
NOTES:
ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

5/14/99

4/1/2022

Kimley»Horn
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NC 27601

PROJECT REFERENCE NO. U-5815BA	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 4/1/2022	HYDRAULICS ENGINEER
	

REVISIONS



FINAL EROSION CONTROL

NOTE: PLACE WATTLES AT DRAINAGE OUTLETS.

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF TEMPORARY ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

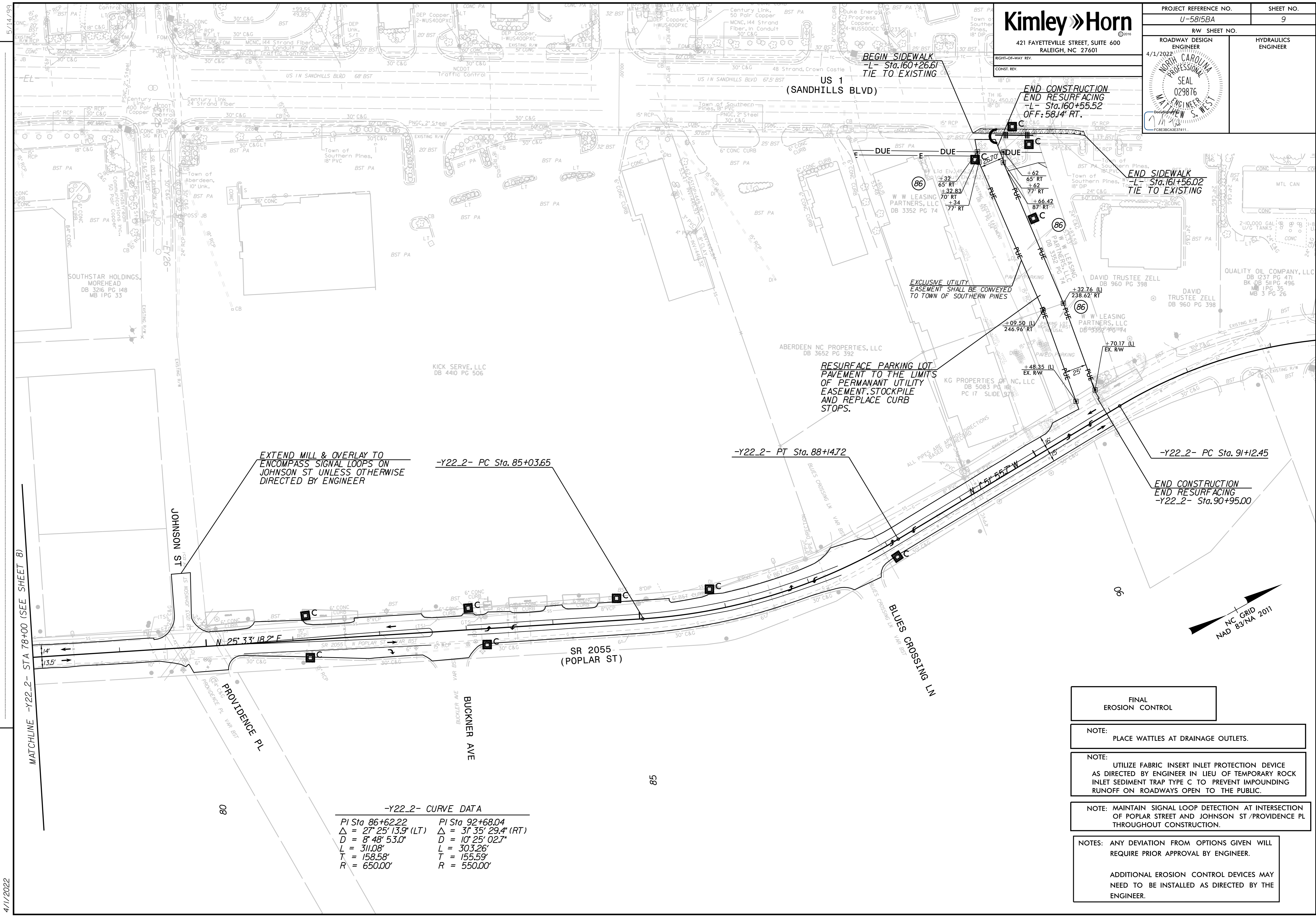
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

4/1/2022

PROJECT REFERENCE NO. U-5815BA	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 4/1/2022	HYDRAULICS ENGINEER

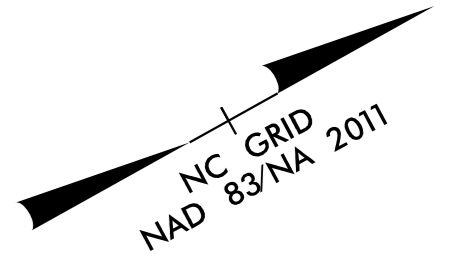
REVISIONS



-Y22_2- CURVE DATA

PI Sta 86+62.22	PI Sta 92+68.04
Δ = 27° 25' 13.9" (LT)	Δ = 31° 35' 29.4" (RT)
D = 8° 48' 53.0"	D = 10° 25' 02.7"
L = 311.08'	L = 303.26'
T = 158.58'	T = 155.59'
R = 650.00'	R = 550.00'

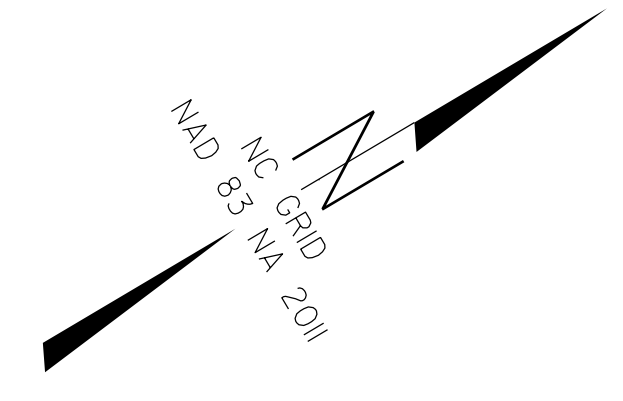
- FINAL EROSION CONTROL**
- NOTE: PLACE WATTLES AT DRAINAGE OUTLETS.
- NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF TEMPORARY ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.
- NOTE: MAINTAIN SIGNAL LOOP DETECTION AT INTERSECTION OF POPLAR STREET AND JOHNSON ST / PROVIDENCE PL THROUGHOUT CONSTRUCTION.
- NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
- ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.



4/1/2022

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



PROJECT REFERENCE NO.	SHEET NO.
N POPLAR ST	RW02C-1
Location and Surveys	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY28 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	503343.497	1871955.266	N 29°26'45.2" E	3183.35					
LINE									
PC	506115.621	1873520.204	N 35°39'31.0" E	161.79	12°25'31.5"(RT)	07°40'14.6"	161.99	81.37	747.50
CURVE	506247.075	1873614.519	N 41°52'16.8" E	482.16					
PT									
LINE									
PC	506606.116	1873936.344	N 41°26'11.2" E	233.26	00°52'11.1"(LT)	00°22'22.3"	233.27	116.64	15366.71
CURVE	506780.992	1874090.716	N 41°00'05.7" E	770.72					
PT									
LINE									
PC	507362.647	1874596.369	N 33°16'32.5" E	228.09	15°27'06.3"(LT)	06°45'27.8"	228.65	115.09	848.35
CURVE	507553.342	1874721.516	N 25°32'59.3" E	4452.76					
PT									
LINE									
PC	511570.666	1876641.971	N 11°48'45.4" E	315.83	27°28'27.8"(LT)	08°37'26.6"	318.58	162.57	665.00
CURVE	511879.811	1876706.626	N 01°55'28.5" W	298.00					
PT									
LINE									
PC	512177.643	1876696.618	N 13°54'02.6" E	289.07	31°39'02.2"(RT)	10°49'35.8"	292.34	150.23	530.00
CURVE	512458.245	1876766.063	N 29°43'33.7" E	99.79					
PT									
LINE									
PC	512544.905	1876815.545	N 14°35'04.5" W	279.42	88°37'16.4"(LT)	28°57'18.1"	306.07	195.24	200.00
CURVE	512815.320	1876745.185	N 58°53'42.7" W	67.86					
PT									
LINE									
PC	512850.376	1876687.083	N 60°11'22.9" W	22.59	02°35'20.3"(LT)	11°28'42.0"	22.56	11.30	500.00
CURVE	512861.607	1876667.481	N 61°29'03.0" W	116.40					
PT									
LINE									
PC	512917.177	1876565.202	N 60°51'36.7" W	54.45	01°14'52.6"(RT)	02°17'31.1"	54.45	27.23	2500.00
CURVE	512943.691	1876517.642	N 60°14'10.4" W	352.78					
PT									
LINE									
POT	513118.021	1876211.400							

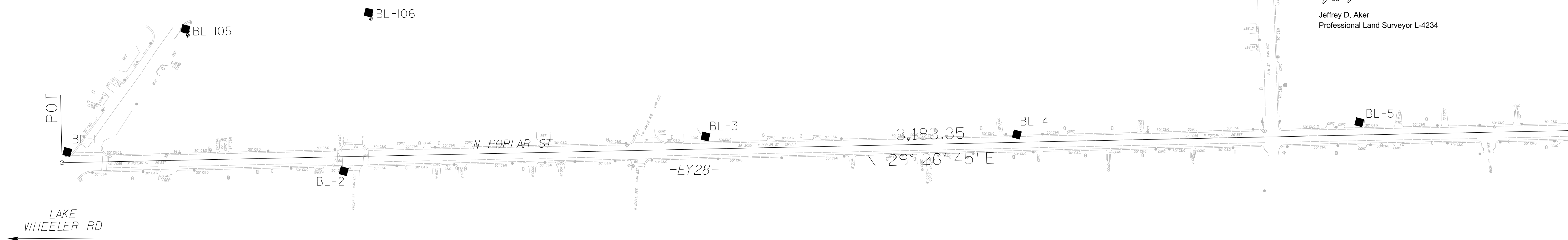
I, Jeffrey D. Aker, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
 Type of GPS field procedure: RTN
 Dates of survey: 3/07/19-8/13/19
 Datum/Epoch: NAD 1983/NA 2011
 Published/Fixed-control use: N/A
 Localized around: WICKS
 Northing: 510807.837
 Easting: 1875435.501
 Combined grid factor: 0.99985820
 Geoid model: G18US
 Units: USFT

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 3/7/19 to 8/13/19, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of February, 2022.

 Jeffrey D. Aker
 Professional Land Surveyor L-4234



BY28 POINT	DESC.	NORTH	EAST	ELEVATION
106	BL - 106	503967.4370	1872005.1310	332.16
105	BL - 105	503663.1230	1871859.7490	332.48
1	BL - 1	503361.7940	1871943.1200	332.83
2	BL - 2	503779.9210	1872232.0060	330.96
3	BL - 3	504382.7710	1872515.6430	329.65
4	BL - 4	504875.6910	1872803.6600	342.86
5	BL - 5	505427.1510	1873104.4650	372.72
6	BL - 6	506004.4300	1873440.2130	395.22
7	BL - 7	506503.6870	1873824.7900	418.21
8	BL - 8	506908.0400	1874181.4080	412.51
9	BL - 9	507335.1020	1874597.5470	406.77
10	BL - 10	507880.5460	1874859.2600	401.11
11	BL - 11	508420.7940	1875119.0850	409.03
12	BL - 12	508957.8760	1875376.0140	412.91
13	BL - 13	509498.8860	1875632.1260	422.24
14	BL - 14	510077.3930	1875908.8270	433.05
15	BL - 15	510616.0350	1876167.6730	447.13
16	BL - 16	511131.3230	1876411.0460	446.77
17	BL - 17	511603.6410	1876679.1910	450.55
18	BL - 18	512075.9670	1876681.9940	461.22
145	BY6 - 145	512387.4730	1876766.7100	468.73
144	BY6 - 144	512694.8040	1876866.5330	472.85

NOTES:

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

REVISIONS

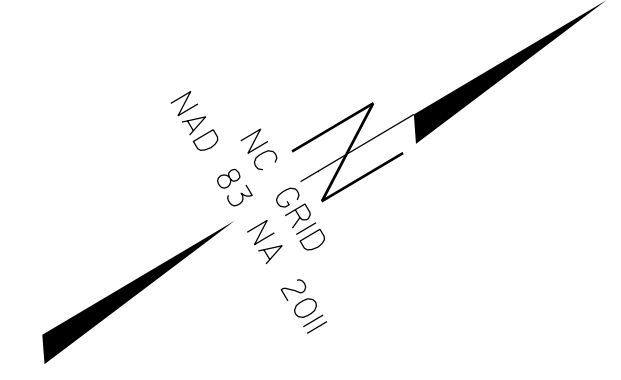
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MATCHLINE RW02C-2

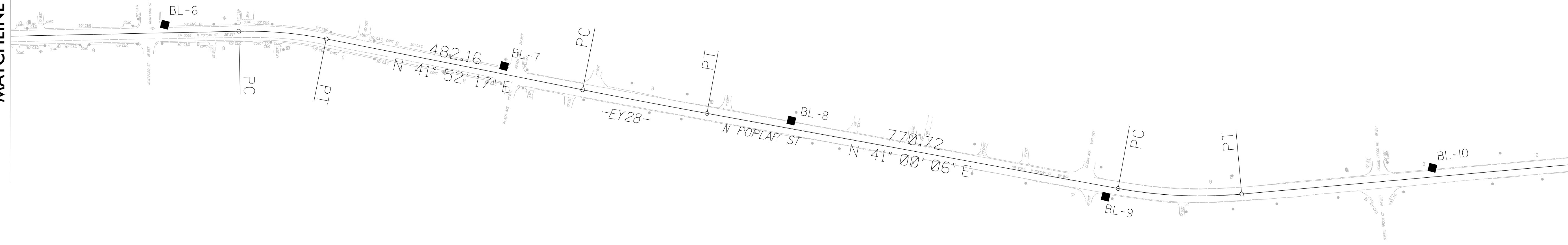
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. N POPLAR ST	SHEET NO. RW02C-2
Location and Surveys	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE RW02C-1



MATCHLINE RW02C-3

REVISIONS



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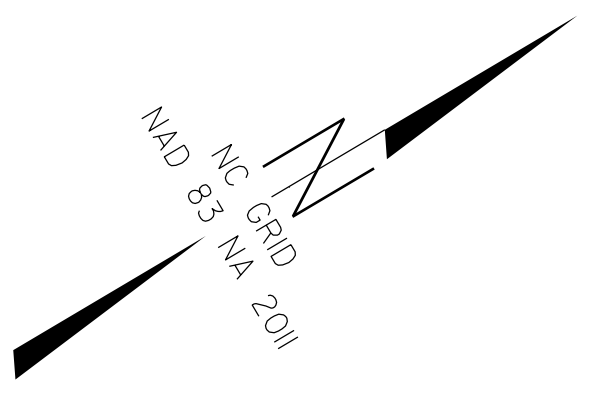
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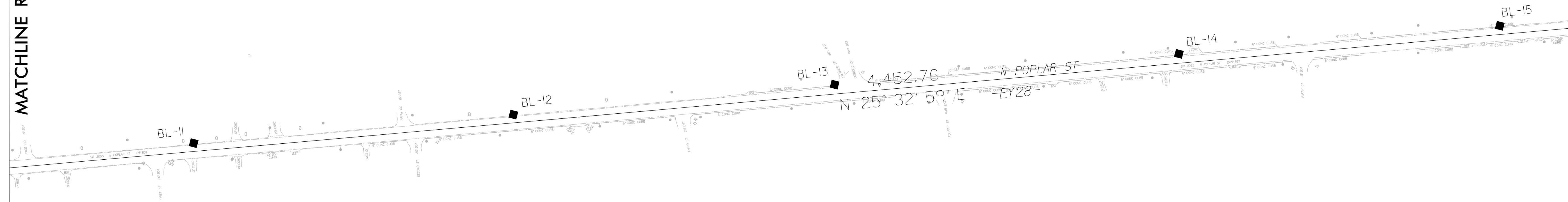
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
N POPLAR ST	RW02C-3
Location and Surveys	
	
	
2/17/2022 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE RW02C-2



MATCHLINE RW02C-4

REVISIONS

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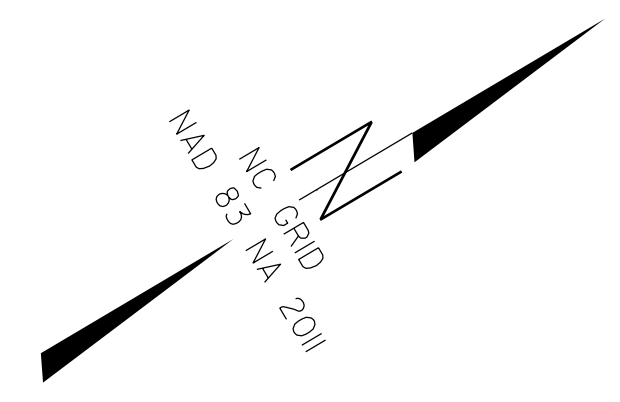
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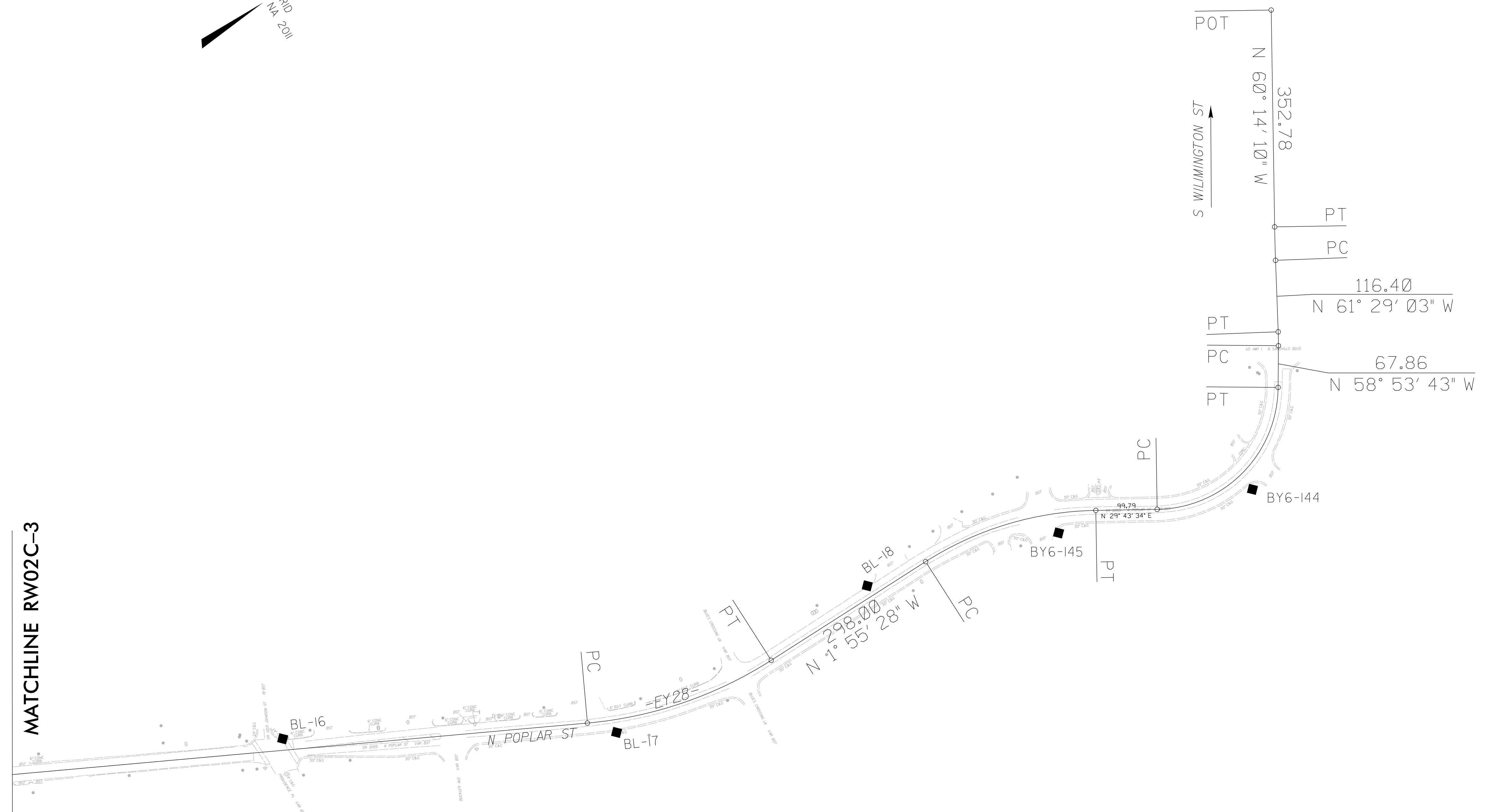
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. N POPLAR ST	SHEET NO. RW02C-4
Location and Surveys	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE RW02C-3



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 MCKIM & CREED.

REVISIONS

17-FEB-2022 16:14
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