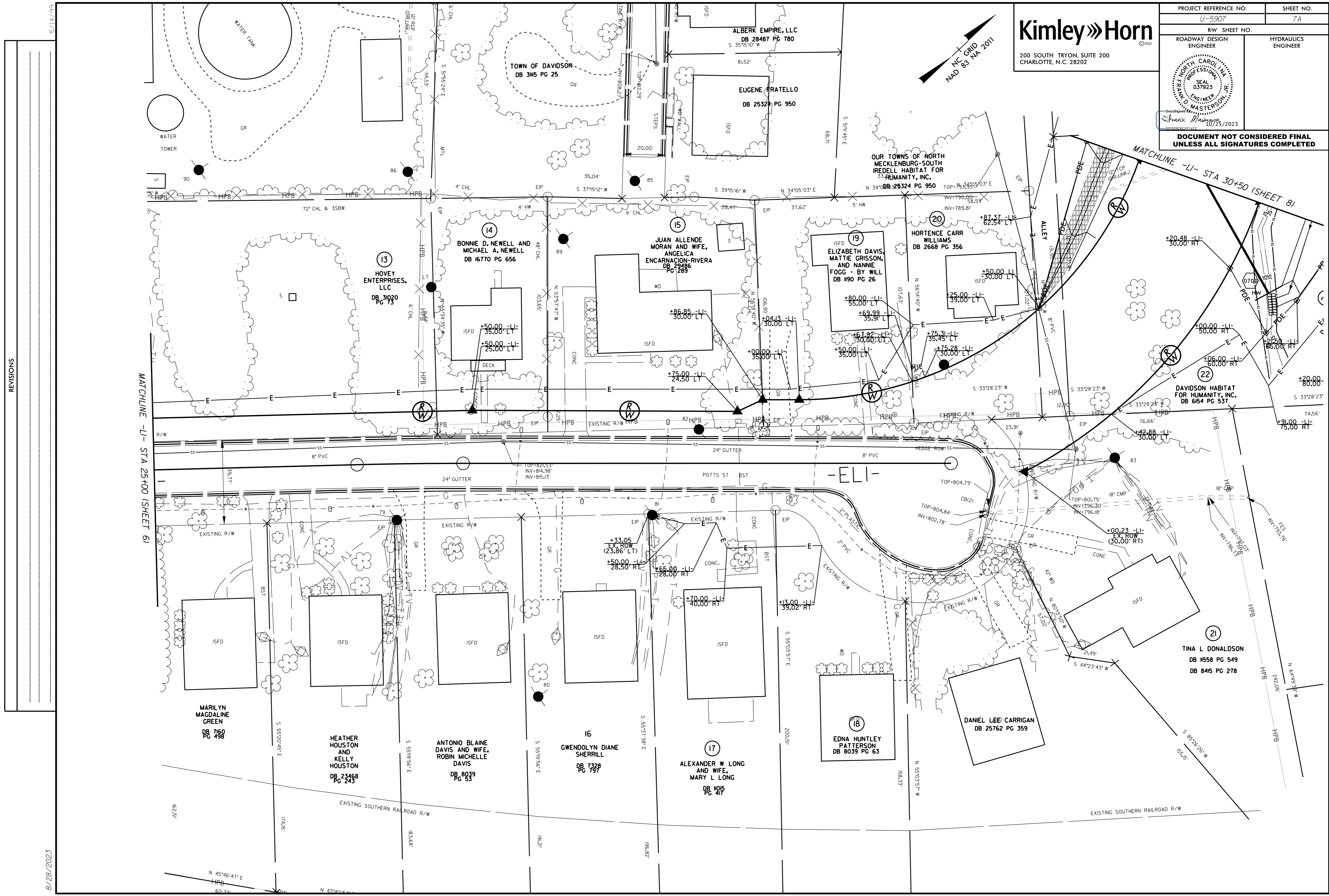
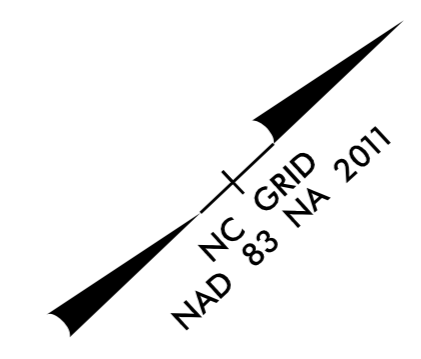


PROJECT REFERENCE NO. U-5907	SHEET NO. 7A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



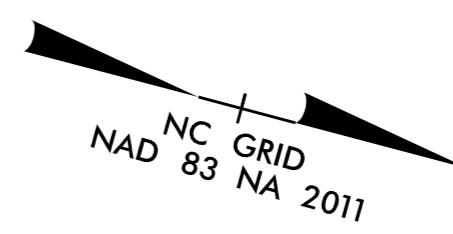
REVISIONS

MATCHLINE -| - STA 25+00 (SHEET 6)

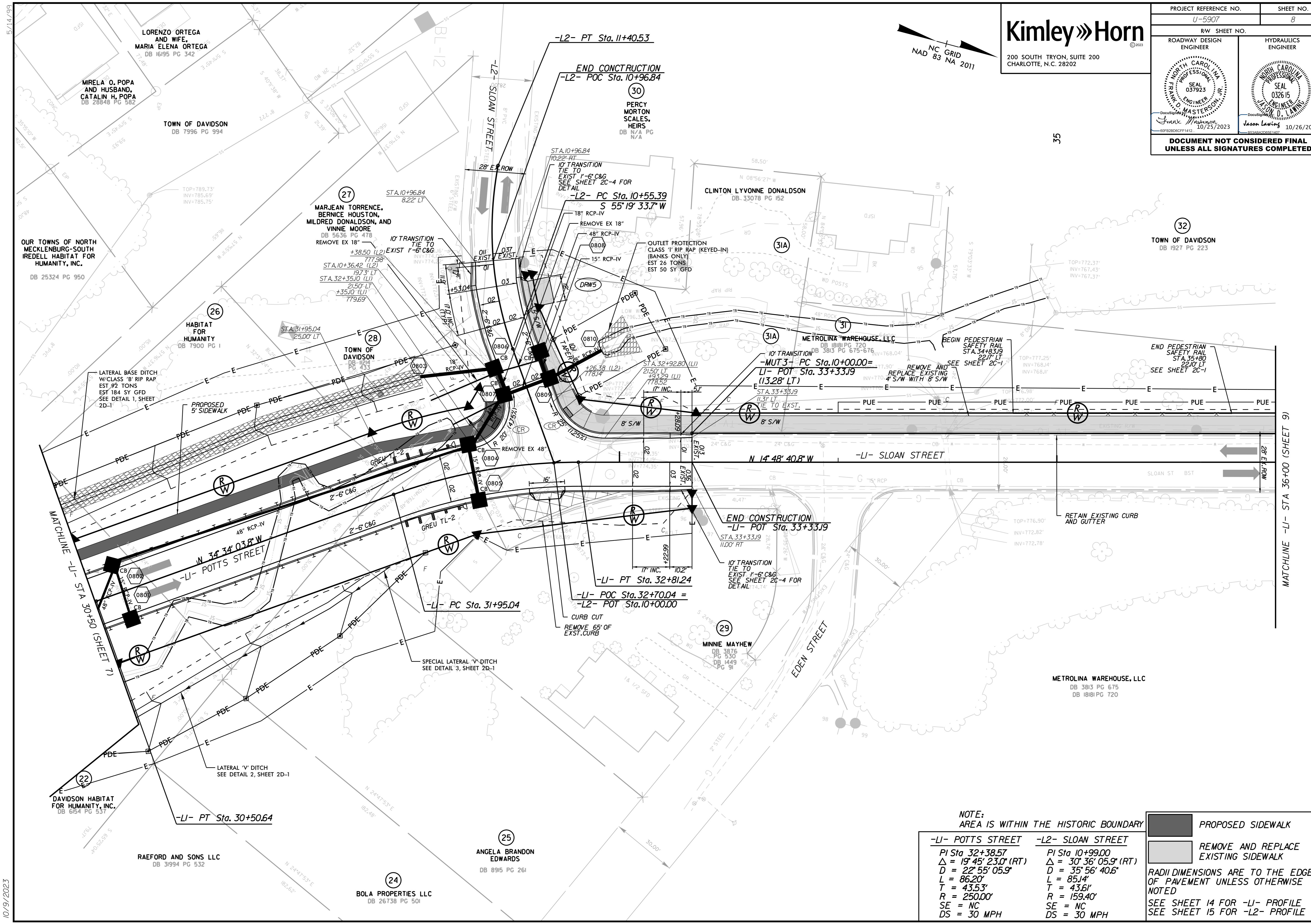
MATCHLINE -| - STA 30+50 (SHEET 8)

5/14/19

8/28/2023



PROJECT REFERENCE NO. U-5907	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
10/25/2023	10/26/2023
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



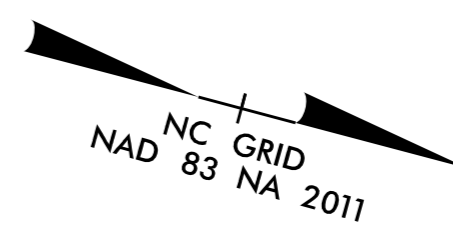
NOTE:
AREA IS WITHIN THE HISTORIC BOUNDARY

	PROPOSED SIDEWALK
	REMOVE AND REPLACE EXISTING SIDEWALK

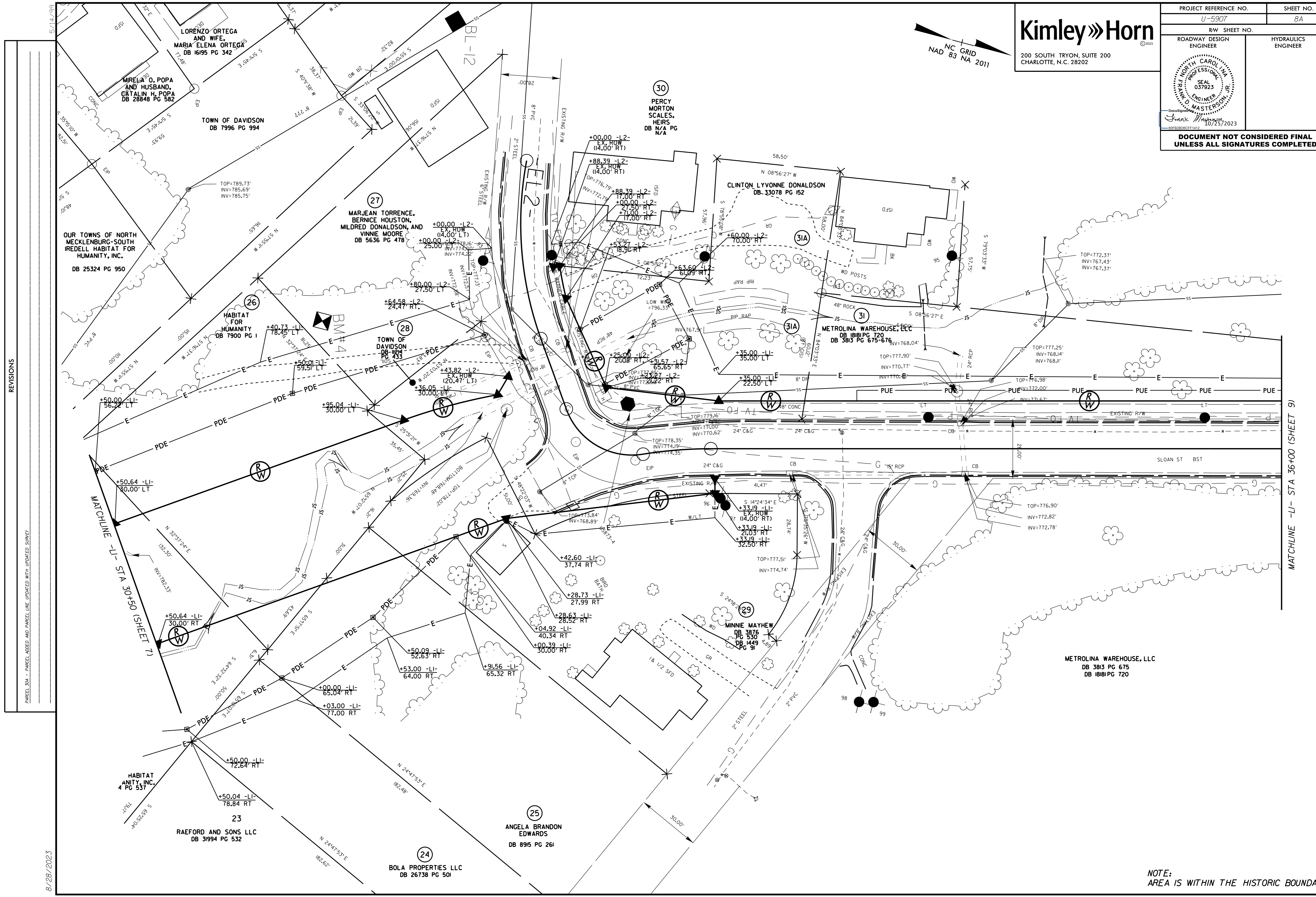
-L1- POTTS STREET	-L2- SLOAN STREET
PI Sta 32+38.57	PI Sta 10+99.00
$\Delta = 19^{\circ} 45' 23.0''$ (RT)	$\Delta = 30^{\circ} 36' 05.9''$ (RT)
D = 22' 55' 05.9"	D = 35' 56' 40.6"
L = 86.20'	L = 85.14'
T = 43.53'	T = 43.61'
R = 250.00'	R = 159.40'
SE = NC	SE = NC
DS = 30 MPH	DS = 30 MPH

RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
SEE SHEET 14 FOR -L1- PROFILE
SEE SHEET 15 FOR -L2- PROFILE

10/9/2023



PROJECT REFERENCE NO. U-5907		SHEET NO. 8A	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



REVISIONS

PARCEL 30A - PARCEL ADDED AND PARCEL LINE UPDATED WITH UPDATED SURVEY

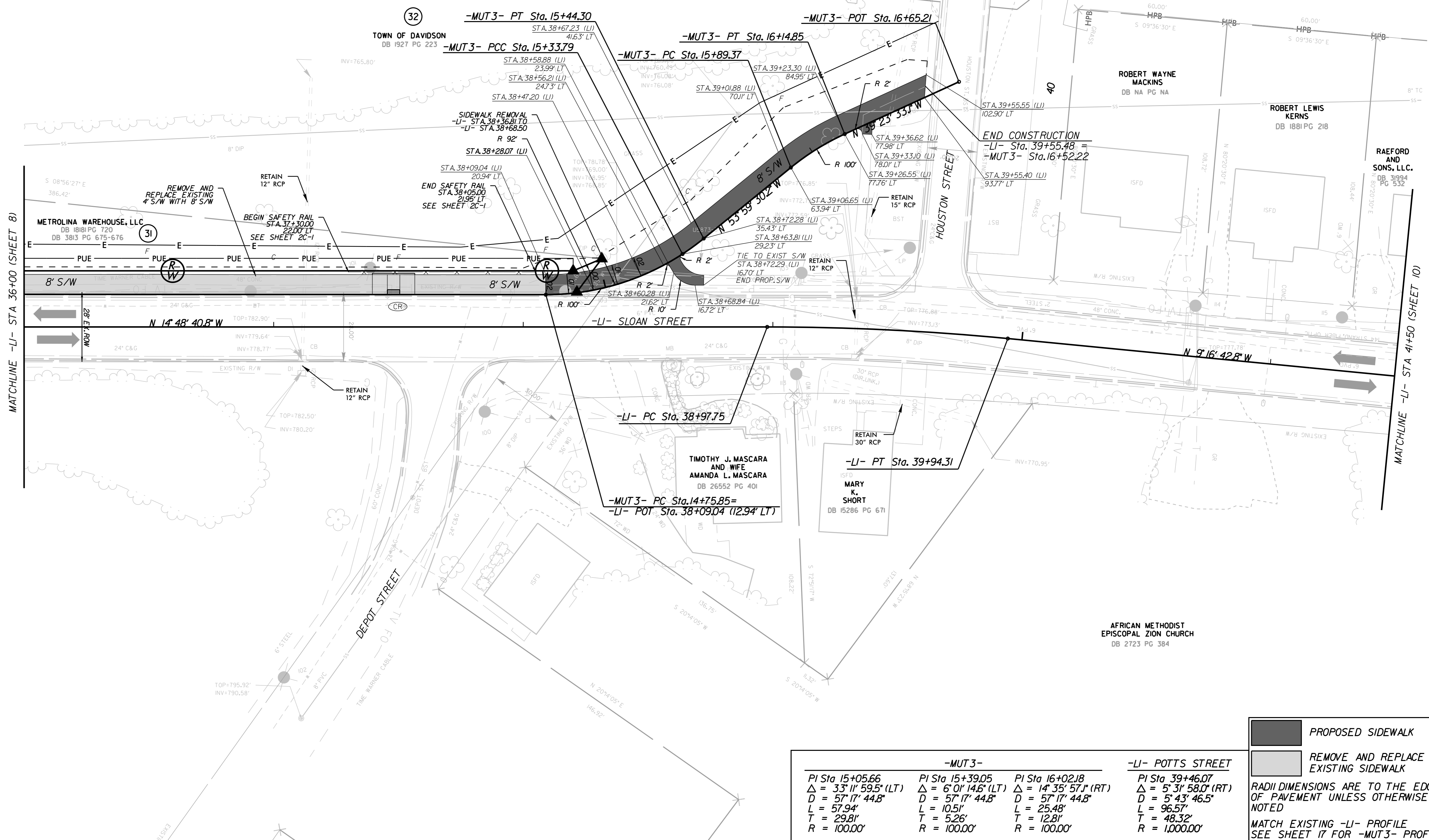
8/28/2023

MATCHLINE - LI - STA 30+50 (SHEET 7)

MATCHLINE - LI - STA 36+00 (SHEET 9)

NOTE:
AREA IS WITHIN THE HISTORIC BOUNDARY

PROJECT REFERENCE NO. U-5907		SHEET NO. 9	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 037923	
FRANK W. MASTERS, III 10/23/2023		JASON LAWING 10/26/2023	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



MATCHLINE -LI- STA 36+00 (SHEET 8)

MATCHLINE -LI- STA 41+50 (SHEET 10)

PROPOSED SIDEWALK

REMOVE AND REPLACE EXISTING SIDEWALK

RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

MATCH EXISTING -LI- PROFILE SEE SHEET 17 FOR -MUT3- PROFILE

-MUT3-			-LI- POTS STREET
PI Sta 15+05.66	PI Sta 15+39.05	PI Sta 16+02.18	PI Sta 39+46.07
$\Delta = 33' 11'' 59.5''$ (LT)	$\Delta = 6' 01' 14.6''$ (LT)	$\Delta = 14' 35' 57.1''$ (RT)	$\Delta = 5' 31' 58.0''$ (RT)
D = 57' 17' 44.8"	D = 57' 17' 44.8"	D = 57' 17' 44.8"	D = 5' 43' 46.5"
L = 57.94'	L = 10.51'	L = 25.48'	L = 96.57'
T = 29.81'	T = 5.26'	T = 12.81'	T = 48.32'
R = 100.00'	R = 100.00'	R = 100.00'	R = 1,000.00'

5/14/19

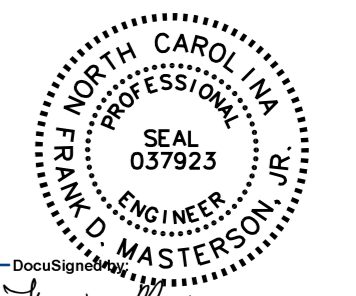
REVISIONS

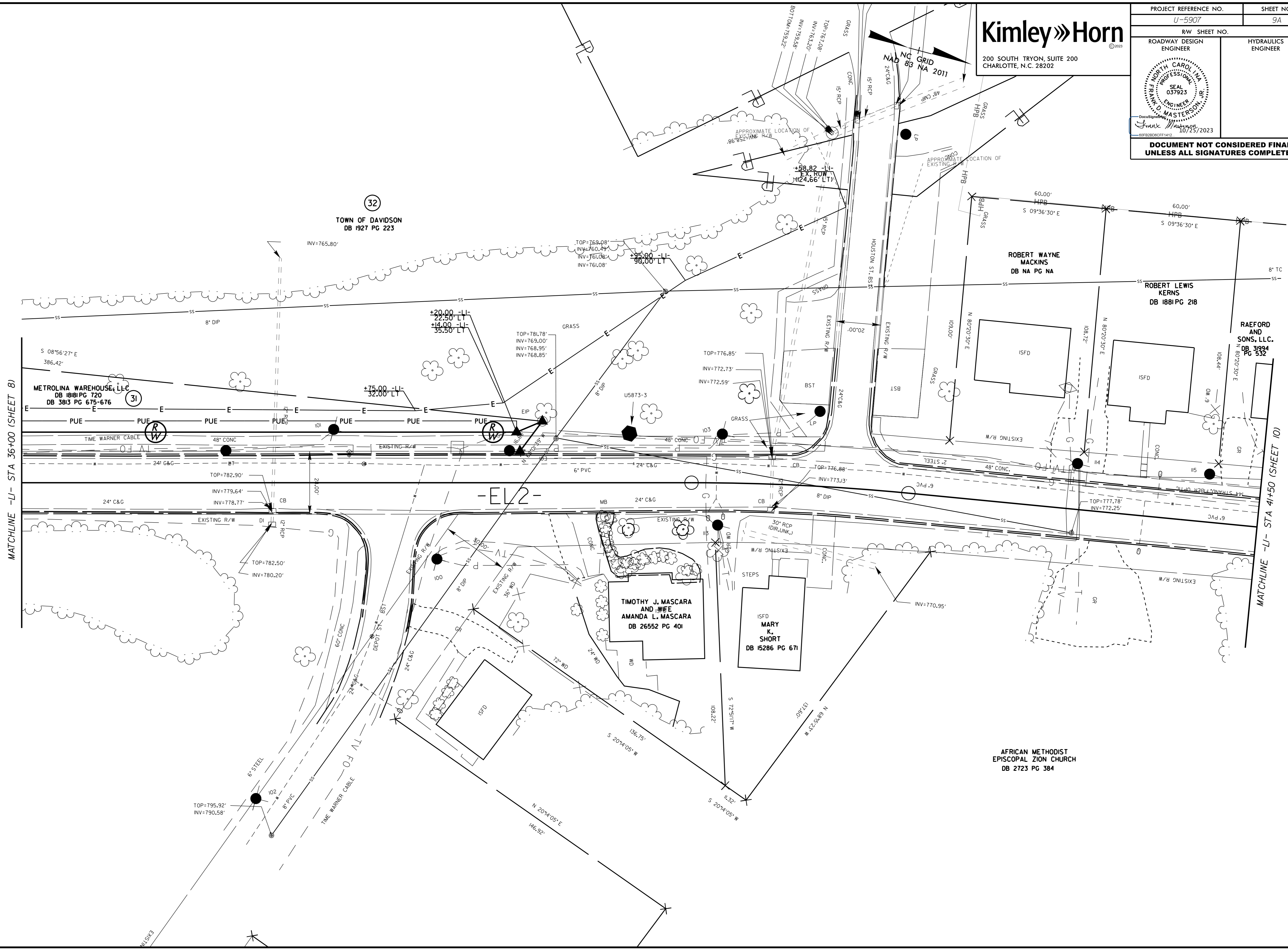
ROW REV. - 10/11/21 - UPDATED PARCEL 32 WITH REVISED EASEMENTS.

8/28/2023

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5907		SHEET NO. 9A	
RW SHEET NO. ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DocuSign Frank D. Masters 10/25/2023 60F826C6FF1412			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



MATCHLINE -LI- STA 36+00 (SHEET 8)

MATCHLINE -LI- STA 41+50 (SHEET 10)

32
TOWN OF DAVIDSON
DB 1927 PG 223

31
METROLINA WAREHOUSE, LLC
DB 1818 PG 720
DB 3813 PG 675-676

TIMOTHY J. MASCARA
AND WIFE
AMANDA L. MASCARA
DB 26552 PG 401

MARY
K.
SHORT
DB 15286 PG 671

AFRICAN METHODIST
EPISCOPAL ZION CHURCH
DB 2723 PG 384

ROBERT WAYNE
MACKINS
DB NA PG NA

ROBERT LEWIS
KERNS
DB 1881 PG 218

RAEFORD
AND
SONS, LLC.
DB 31994
PG 532

-EL2-

5/14/19

10/12/2023

Griffith Street	2023 PHV AM (PM)
73 (18)	73 (18)
353 (427)	353 (427)
4 (34)	4 (34)
Sloan Street	2023 PHV AM (PM)
585 (190)	585 (190)
406 (504)	406 (504)
214 (193)	214 (193)

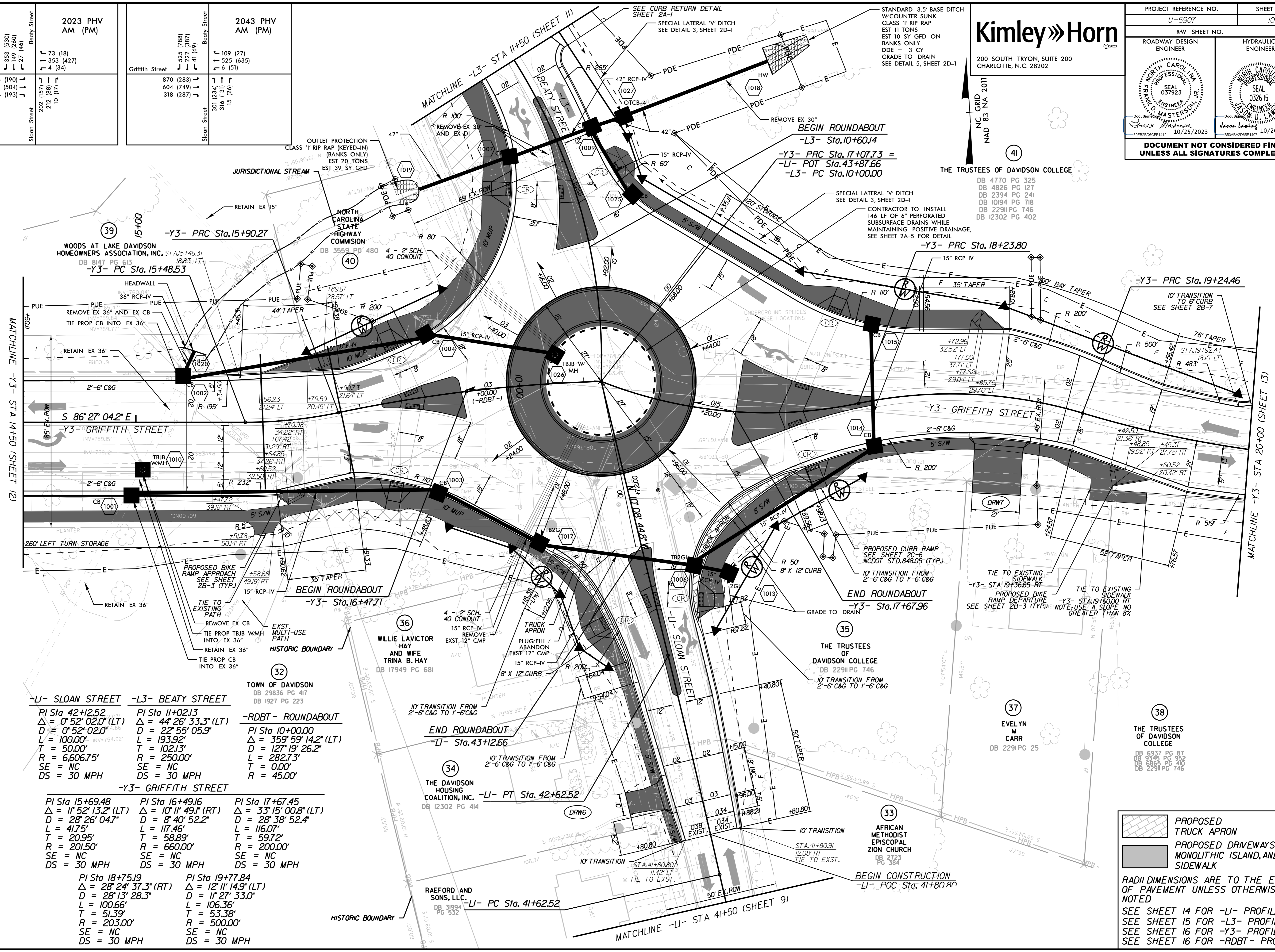
Griffith Street	2043 PHV AM (PM)
109 (27)	109 (27)
525 (635)	525 (635)
6 (51)	6 (51)
Sloan Street	2043 PHV AM (PM)
870 (283)	870 (283)
604 (749)	604 (749)
318 (287)	318 (287)

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5907	SHEET NO. 10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
10/25/2023	10/26/2023

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



<p>-LI- SLOAN STREET</p> <p>PI Sta 42+12.52 $\Delta = 0^\circ 52' 02.0''$ (LT) $D = 100.00'$ $L = 100.00'$ $T = 50.00'$ $R = 6606.75'$ $SE = NC$ $DS = 30$ MPH</p>	<p>-L3- BEAUTY STREET</p> <p>PI Sta 11+02.13 $\Delta = 44^\circ 26' 33.3''$ (LT) $D = 22^\circ 55' 05.9''$ $L = 193.92'$ $T = 102.13'$ $R = 250.00'$ $SE = NC$ $DS = 30$ MPH</p>	<p>-RDBT- ROUNDABOUT</p> <p>PI Sta 10+00.00 $\Delta = 359^\circ 59' 14.2''$ (LT) $D = 127^\circ 19' 26.2''$ $L = 282.73'$ $T = 0.00'$ $R = 45.00'$</p>						
<p>-Y3- GRIFFITH STREET</p> <table border="0"> <tr> <td> <p>PI Sta 15+69.48 $\Delta = 11^\circ 52' 13.2''$ (LT) $D = 28^\circ 26' 04.7''$ $L = 41.75'$ $T = 20.95'$ $R = 201.50'$ $SE = NC$ $DS = 30$ MPH</p> </td> <td> <p>PI Sta 16+49.16 $\Delta = 10^\circ 11' 49.1''$ (RT) $D = 8^\circ 40' 52.2''$ $L = 117.46'$ $T = 58.89'$ $R = 660.00'$ $SE = NC$ $DS = 30$ MPH</p> </td> <td> <p>PI Sta 17+67.45 $\Delta = 33^\circ 15' 00.8''$ (LT) $D = 28^\circ 38' 52.4''$ $L = 116.07'$ $T = 59.72'$ $R = 200.00'$ $SE = NC$ $DS = 30$ MPH</p> </td> </tr> <tr> <td> <p>PI Sta 18+75.19 $\Delta = 28^\circ 24' 37.3''$ (RT) $D = 28^\circ 13' 28.3''$ $L = 100.66'$ $T = 51.39'$ $R = 203.00'$ $SE = NC$ $DS = 30$ MPH</p> </td> <td> <p>PI Sta 19+77.84 $\Delta = 12^\circ 11' 14.9''$ (LT) $D = 11^\circ 27' 33.0''$ $L = 106.36'$ $T = 53.38'$ $R = 500.00'$ $SE = NC$ $DS = 30$ MPH</p> </td> <td></td> </tr> </table>			<p>PI Sta 15+69.48 $\Delta = 11^\circ 52' 13.2''$ (LT) $D = 28^\circ 26' 04.7''$ $L = 41.75'$ $T = 20.95'$ $R = 201.50'$ $SE = NC$ $DS = 30$ MPH</p>	<p>PI Sta 16+49.16 $\Delta = 10^\circ 11' 49.1''$ (RT) $D = 8^\circ 40' 52.2''$ $L = 117.46'$ $T = 58.89'$ $R = 660.00'$ $SE = NC$ $DS = 30$ MPH</p>	<p>PI Sta 17+67.45 $\Delta = 33^\circ 15' 00.8''$ (LT) $D = 28^\circ 38' 52.4''$ $L = 116.07'$ $T = 59.72'$ $R = 200.00'$ $SE = NC$ $DS = 30$ MPH</p>	<p>PI Sta 18+75.19 $\Delta = 28^\circ 24' 37.3''$ (RT) $D = 28^\circ 13' 28.3''$ $L = 100.66'$ $T = 51.39'$ $R = 203.00'$ $SE = NC$ $DS = 30$ MPH</p>	<p>PI Sta 19+77.84 $\Delta = 12^\circ 11' 14.9''$ (LT) $D = 11^\circ 27' 33.0''$ $L = 106.36'$ $T = 53.38'$ $R = 500.00'$ $SE = NC$ $DS = 30$ MPH</p>	
<p>PI Sta 15+69.48 $\Delta = 11^\circ 52' 13.2''$ (LT) $D = 28^\circ 26' 04.7''$ $L = 41.75'$ $T = 20.95'$ $R = 201.50'$ $SE = NC$ $DS = 30$ MPH</p>	<p>PI Sta 16+49.16 $\Delta = 10^\circ 11' 49.1''$ (RT) $D = 8^\circ 40' 52.2''$ $L = 117.46'$ $T = 58.89'$ $R = 660.00'$ $SE = NC$ $DS = 30$ MPH</p>	<p>PI Sta 17+67.45 $\Delta = 33^\circ 15' 00.8''$ (LT) $D = 28^\circ 38' 52.4''$ $L = 116.07'$ $T = 59.72'$ $R = 200.00'$ $SE = NC$ $DS = 30$ MPH</p>						
<p>PI Sta 18+75.19 $\Delta = 28^\circ 24' 37.3''$ (RT) $D = 28^\circ 13' 28.3''$ $L = 100.66'$ $T = 51.39'$ $R = 203.00'$ $SE = NC$ $DS = 30$ MPH</p>	<p>PI Sta 19+77.84 $\Delta = 12^\circ 11' 14.9''$ (LT) $D = 11^\circ 27' 33.0''$ $L = 106.36'$ $T = 53.38'$ $R = 500.00'$ $SE = NC$ $DS = 30$ MPH</p>							

PROPOSED TRUCK APRON

PROPOSED DRIVEWAYS, MONOLITHIC ISLAND, AND SIDEWALK

RADIi DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

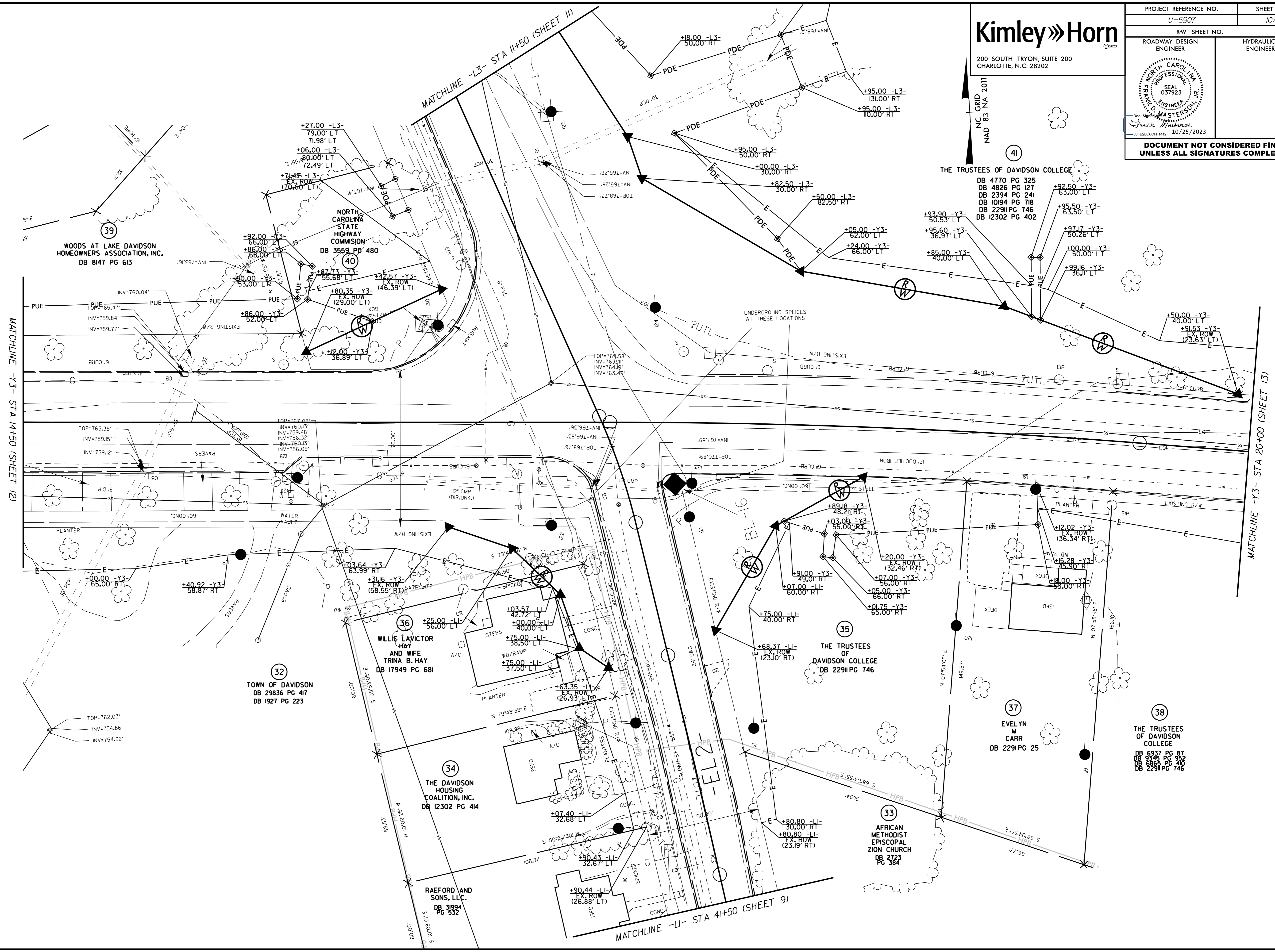
SEE SHEET 14 FOR -LI- PROFILE
 SEE SHEET 15 FOR -L3- PROFILE
 SEE SHEET 16 FOR -Y3- PROFILE
 SEE SHEET 16 FOR -RDBT- PROFILE

5/14/19

REVISIONS

ROW REV. - 10/11/21 - UPDATED PARCEL 32 WITH REVISED EASEMENTS.

8/28/2023



Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

NC GRID 2011
NAD 83 NA 2011

PROJECT REFERENCE NO. U-5907	SHEET NO. 10A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -Y3- STA 14+50 (SHEET 12)

MATCHLINE -L3- STA 11+50 (SHEET 11)

MATCHLINE -L1- STA 41+50 (SHEET 9)

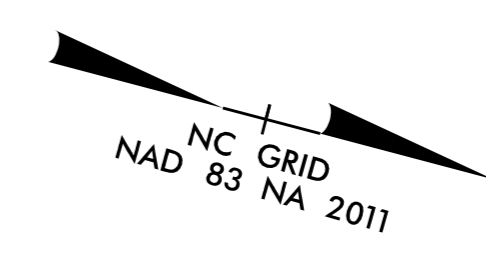
MATCHLINE -Y3- STA 20+00 (SHEET 13)

5/14/1999

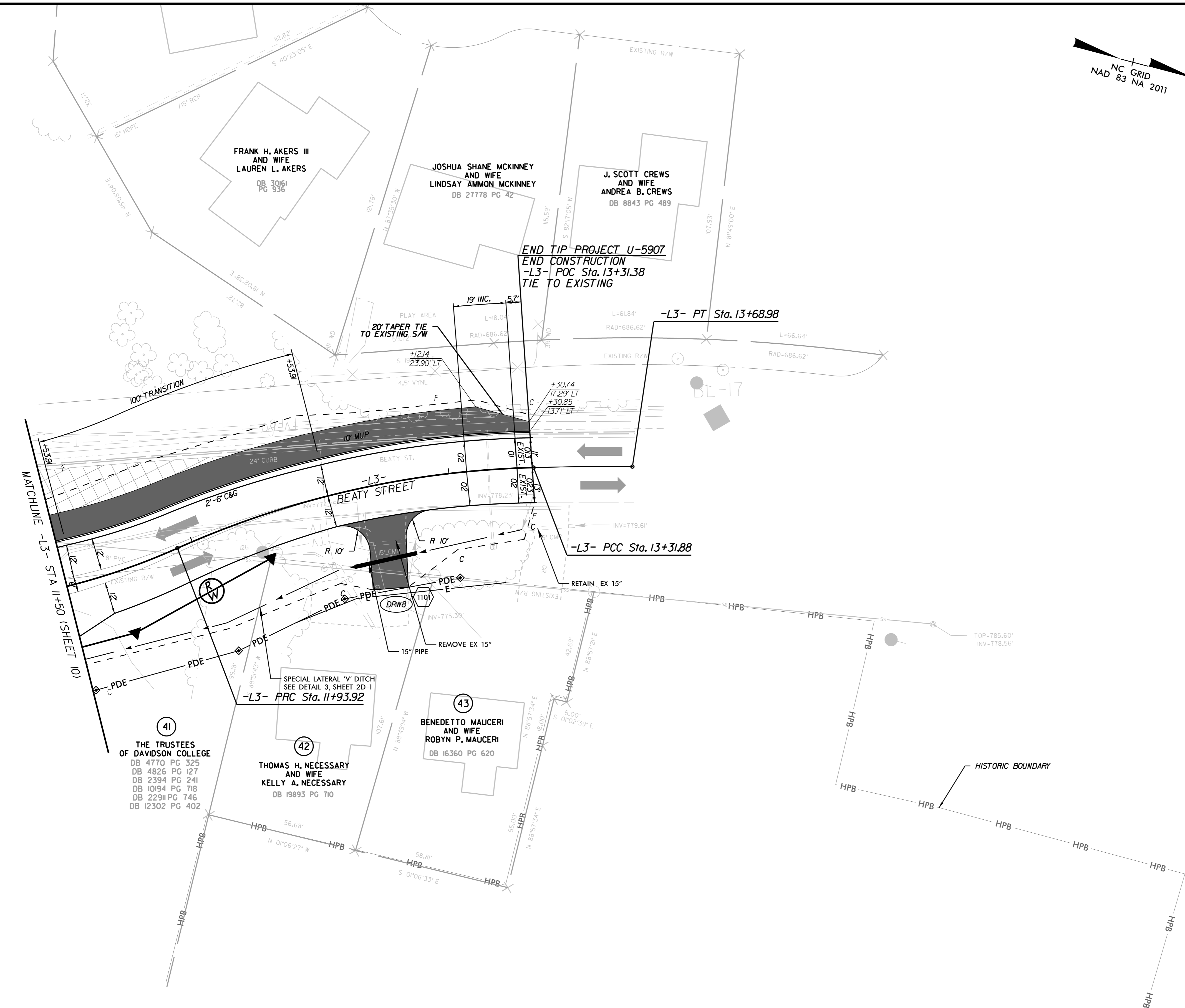
10/9/2023

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202



PROJECT REFERENCE NO. U-5907	SHEET NO. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DocuSigned by: Frank Masterson 10/25/2023	DocuSigned by: Jason Lawing 10/26/2023
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**END TIP PROJECT U-5907
END CONSTRUCTION
-L3- POC Sta. 13+31.38
TIE TO EXISTING**

-L3- PT Sta. 13+68.98

-L3- PCC Sta. 13+31.88

-L3- PRC Sta. 11+93.92

MATCHLINE -L3- STA 11+50 (SHEET 10)

41
THE TRUSTEES
OF DAVIDSON COLLEGE
DB 4770 PG 325
DB 4826 PG 127
DB 2394 PG 241
DB 10194 PG 718
DB 22911 PG 746
DB 12302 PG 402

42
THOMAS H. NECESSARY
AND WIFE
KELLY A. NECESSARY
DB 19893 PG 710

43
BENEDETTO MAUCERI
AND WIFE
ROBYN P. MAUCERI
DB 16360 PG 620

FRANK H. AKERS III
AND WIFE
LAUREN L. AKERS
DB 30161
PG 936

JOSHUA SHANE MCKINNEY
AND WIFE
LINDSAY AMMON MCKINNEY
DB 27778 PG 42

J. SCOTT CREWS
AND WIFE
ANDREA B. CREWS
DB 8843 PG 489

-L3- BEATY STREET

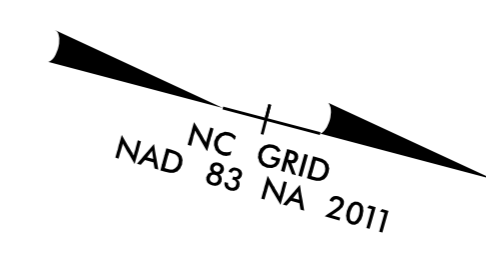
PI Sta 12+63.81	PI Sta 13+50.43
$\Delta = 22^\circ 35' 05.0''$ (RT)	$\Delta = 1^\circ 46' 17.6''$ (RT)
D = 16' 22' 12.8"	D = 4' 46' 32.3"
L = 137.96'	L = 37.10'
T = 69.89'	T = 18.55'
R = 350.00'	R = 1,99.75'
SE = NC	SE = NC
DS = 30 MPH	DS = 30 MPH

**PROPOSED DRIVEWAYS,
MONOLITHIC ISLAND,
AND SIDEWALK**

**RADI DIMENSIONS ARE TO THE EDGE
OF PAVEMENT UNLESS OTHERWISE
NOTED**

SEE SHEET 15 FOR -L3- PROFILE

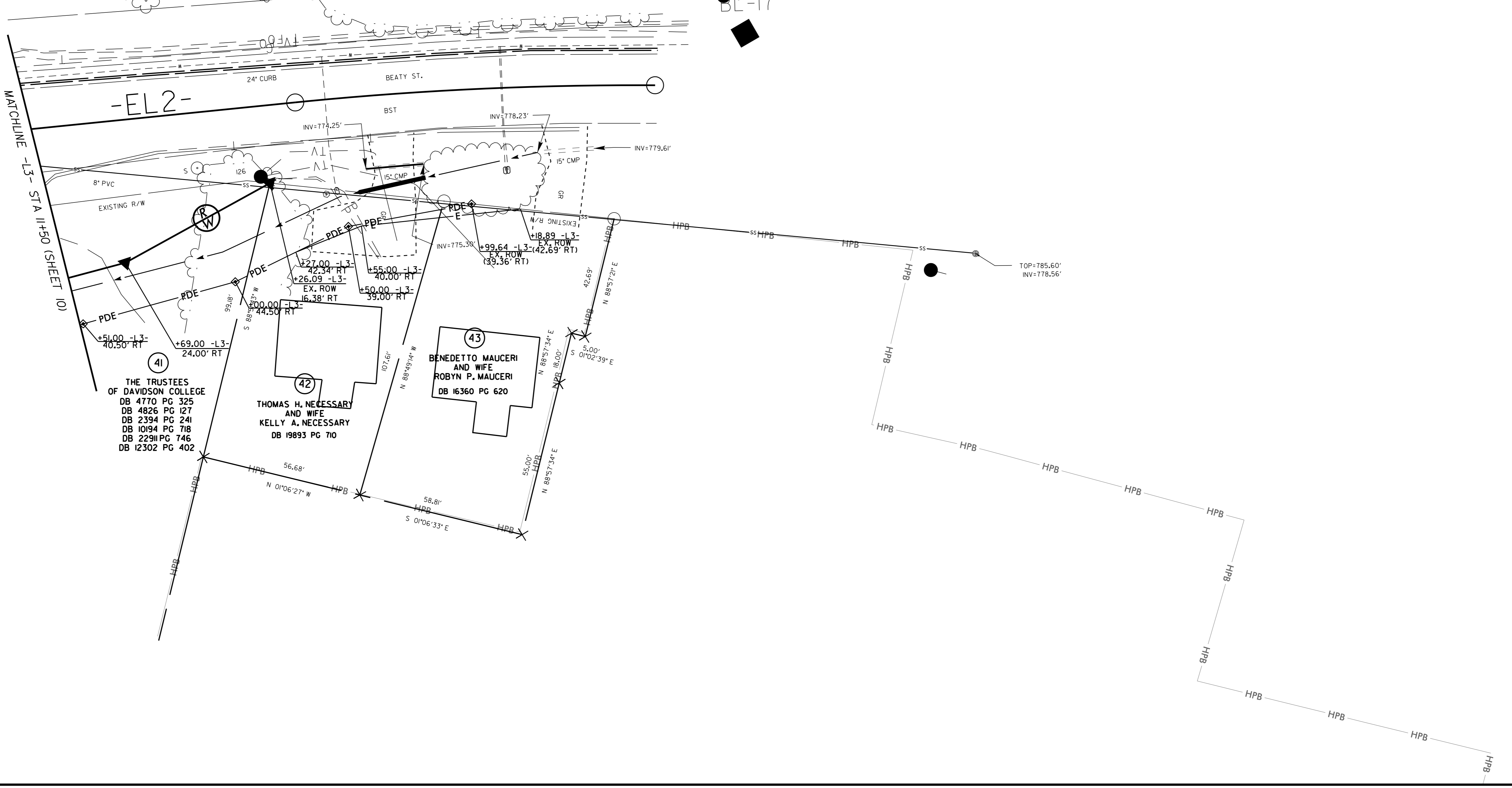
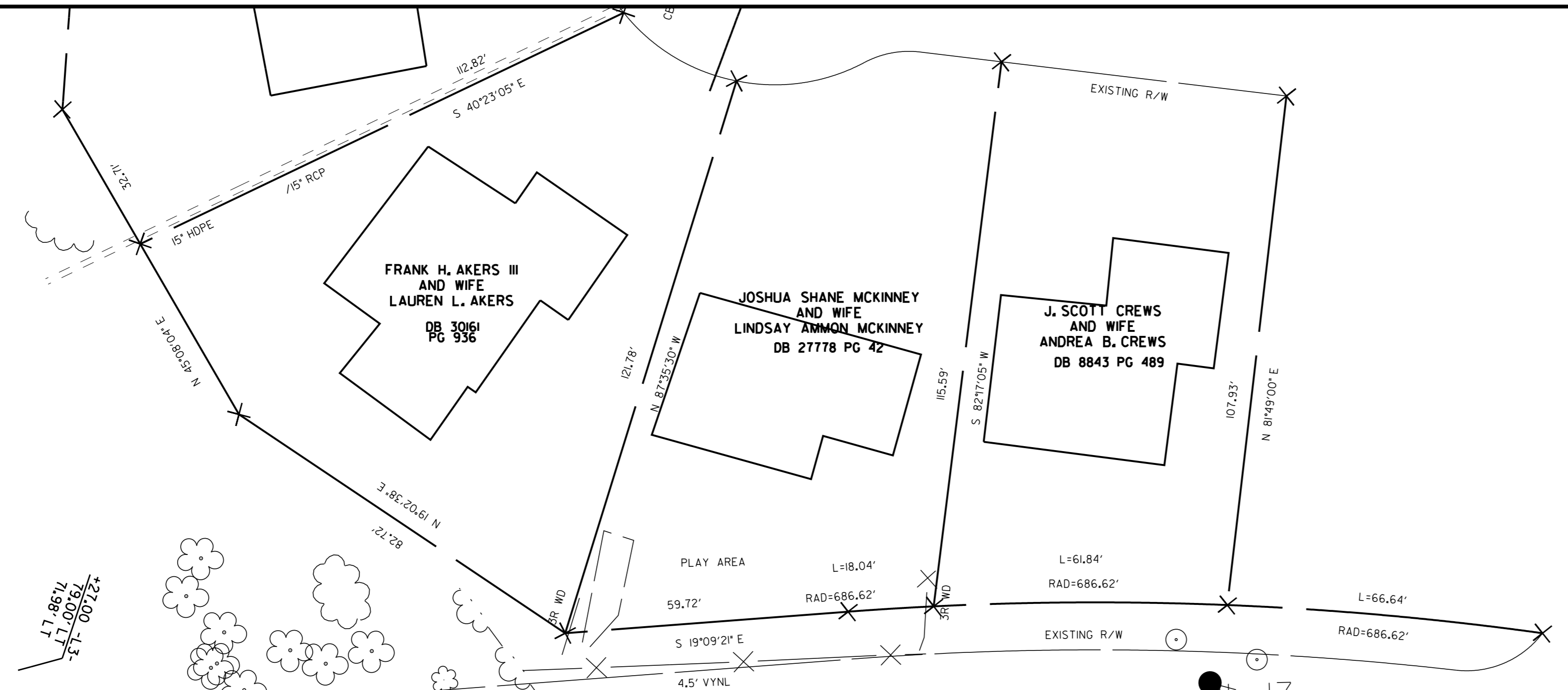
5/14/2023



Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. <i>U-5907</i>	SHEET NO. <i>11A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

MATCHLINE -L3- STA 11+50 (SHEET 10)

(41)
THE TRUSTEES OF DAVIDSON COLLEGE
DB 4770 PG 325
DB 4826 PG 127
DB 2394 PG 241
DB 10194 PG 718
DB 22911 PG 746
DB 12302 PG 402

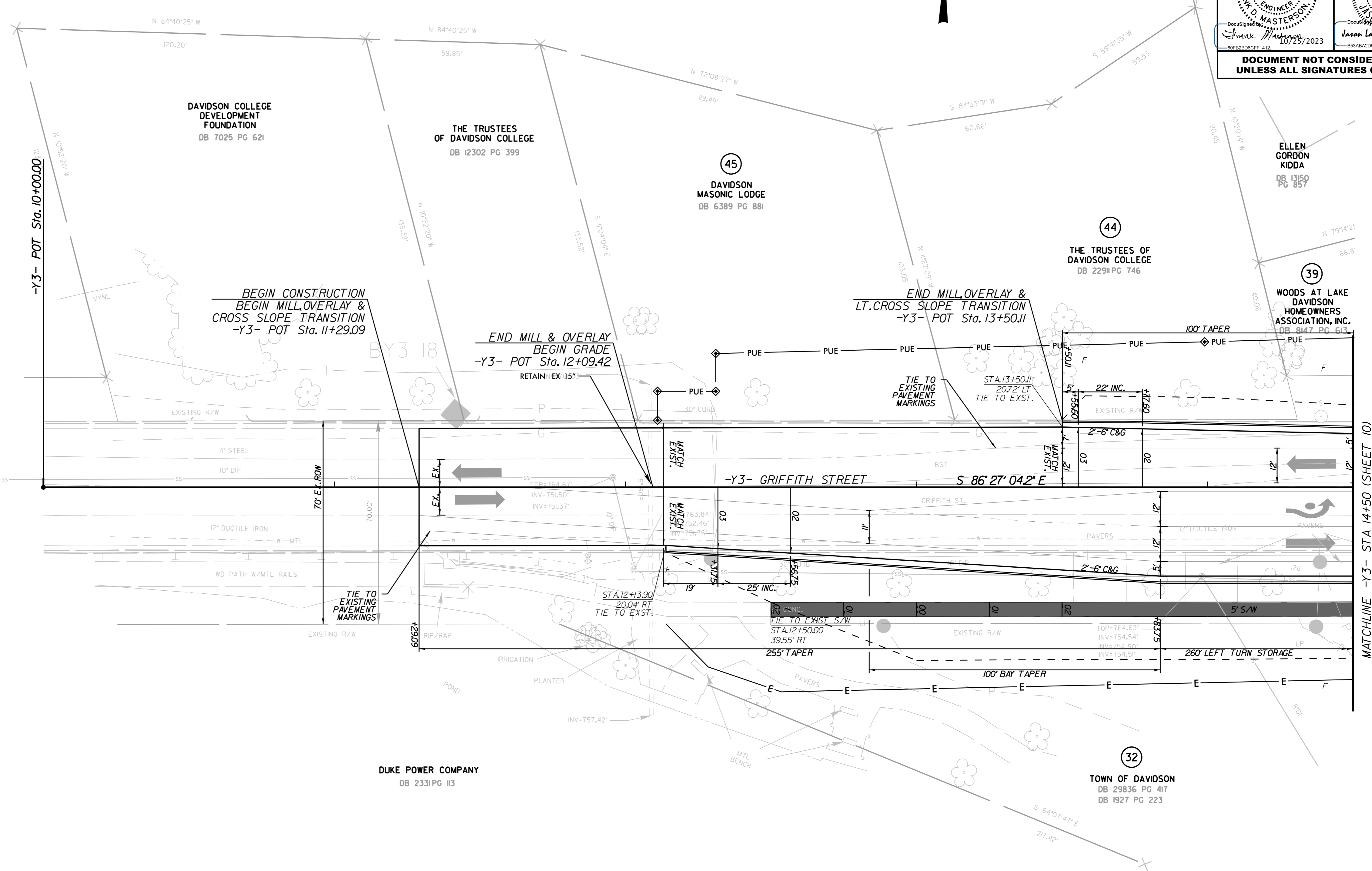
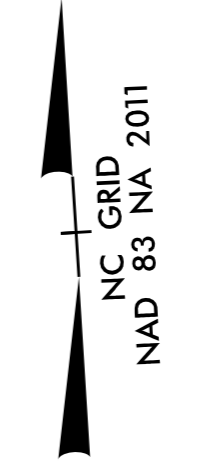
(42)
THOMAS H. NECESSARY AND WIFE
KELLY A. NECESSARY
DB 19893 PG 710

(43)
BENEDETTO MAUCERI AND WIFE
ROBYN P. MAUCERI
DB 16360 PG 620

8/28/2023

5/14/2023

PROJECT REFERENCE NO.		SHEET NO.	
U-5907		12	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



TOP=763.69'
INV=750.80'

DUKE POWER COMPANY
DB 2331 PG #3

32
TOWN OF DAVIDSON
DB 29836 PG 417
DB 1927 PG 223

PROPOSED DRIVEWAYS, MONOLITHIC ISLAND, AND SIDEWALK
RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
SEE SHEET 16 FOR -Y3- PROFILE

10/9/2023

5/14/99

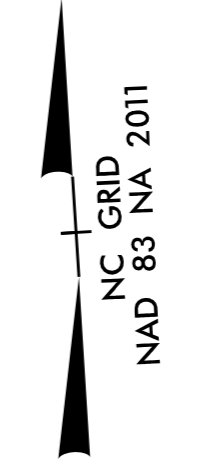
REVISIONS

ROW REV. - 10/11/21 - UPDATED PARCEL 32 WITH REVISED EASEMENTS.

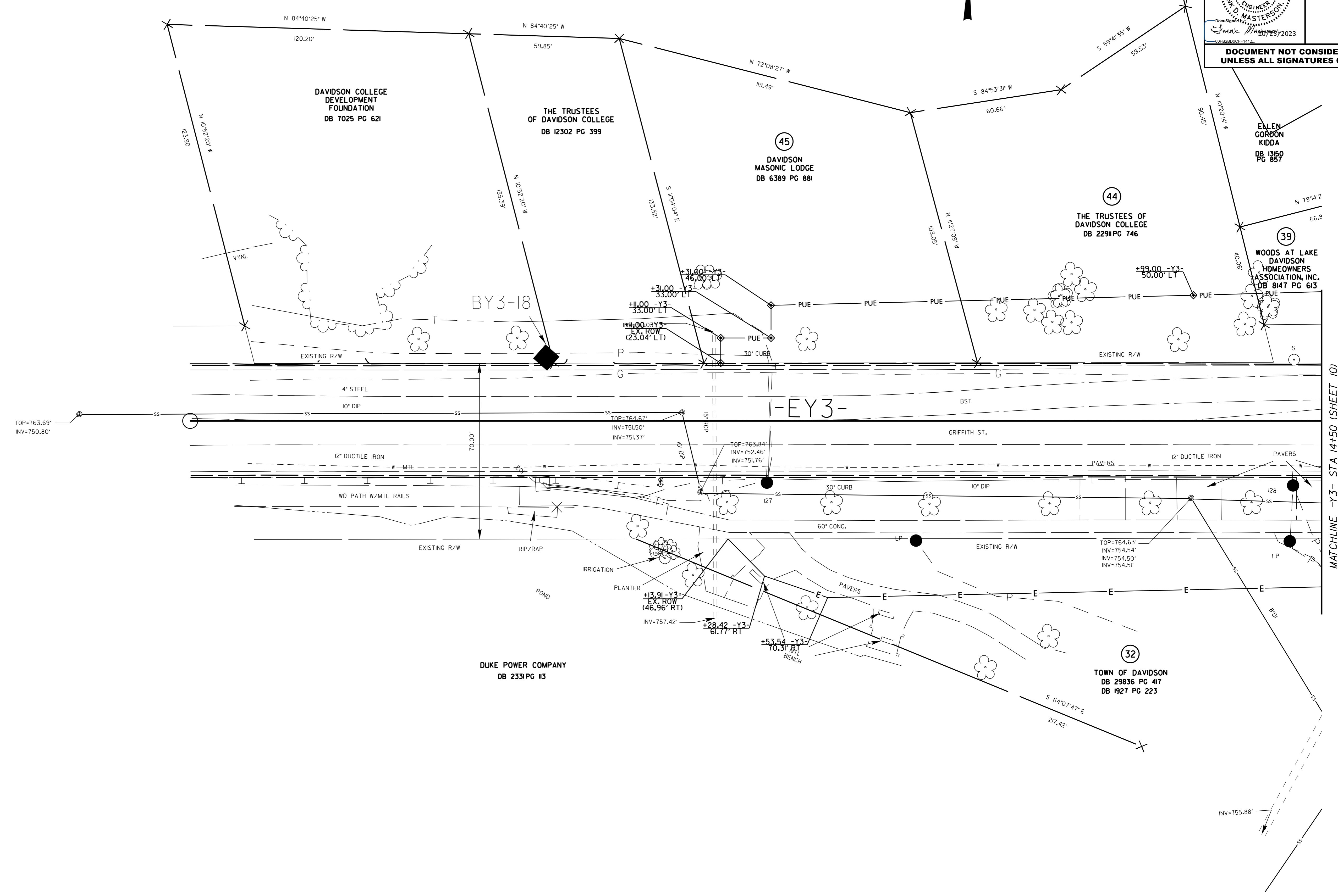
8/28/2023

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

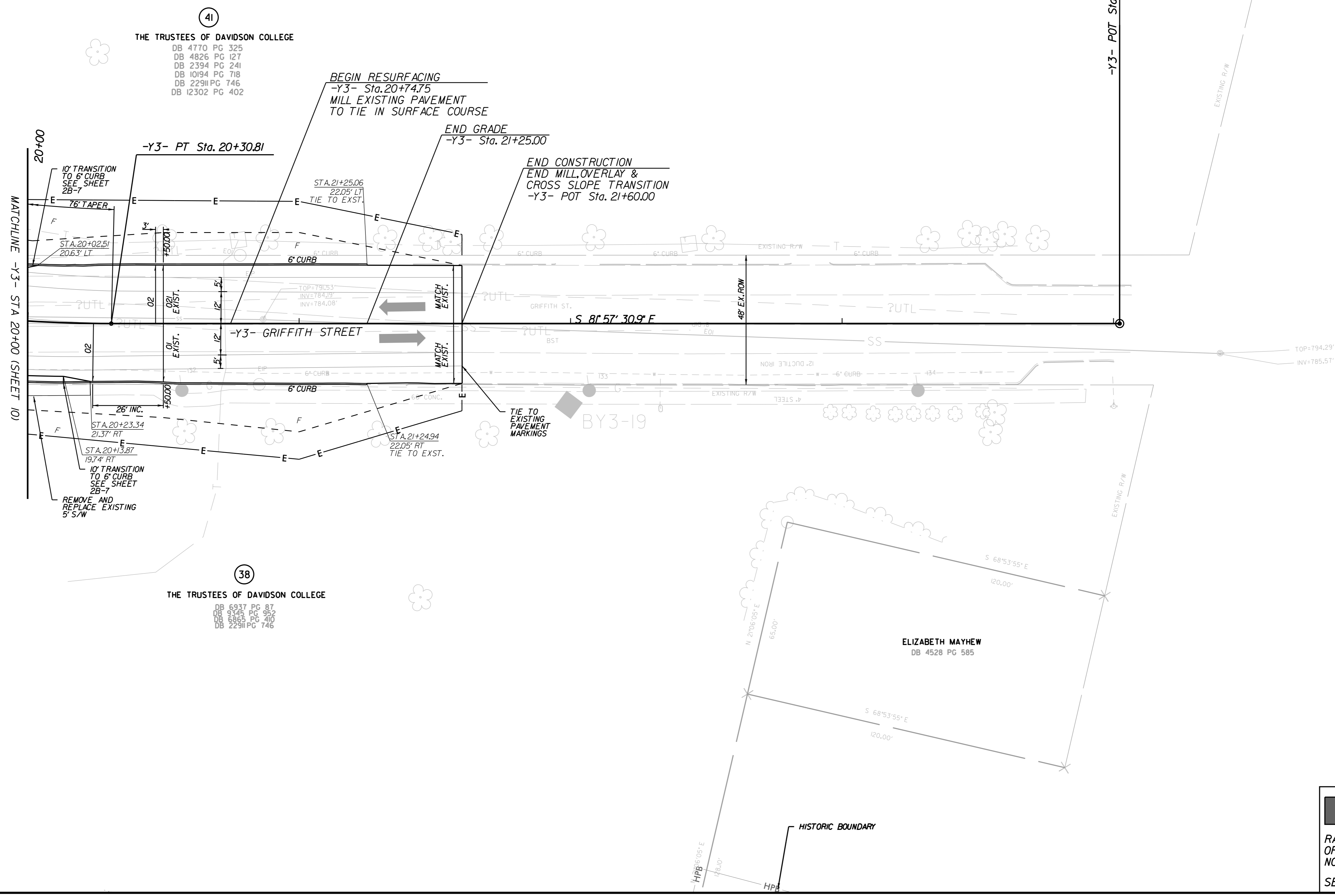


PROJECT REFERENCE NO.		SHEET NO.	
U-5907		12A	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



MATCHLINE -Y3- STA 14+50 (SHEET 10)

PROJECT REFERENCE NO. U-5907	SHEET NO. 13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 Frank W. Heston 10/25/2023	 Jason Lewis 10/26/2023
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PROPOSED DRIVEWAYS, MONOLITHIC ISLAND, AND SIDEWALK

RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

SEE SHEET 16 FOR -Y3- PROFILE

5/14/99

PROJECT REFERENCE NO. U-5907		SHEET NO. 13A	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

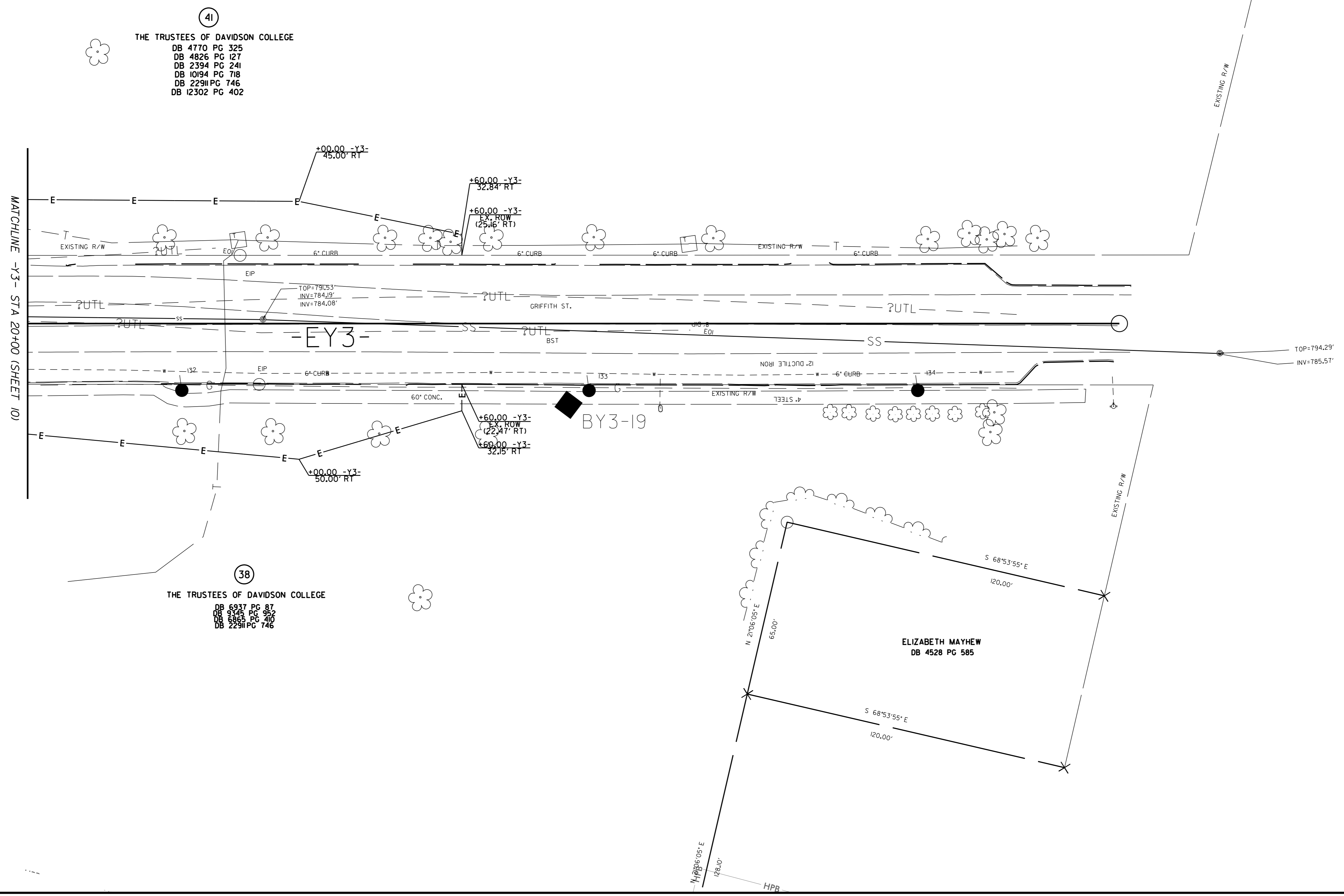
Kimley»Horn
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

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DocuSign Envelope ID: 04F20202CFE1412
Frank M. Johnson
10/25/2023

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

REVISIONS



8/28/2023

5/14/1999

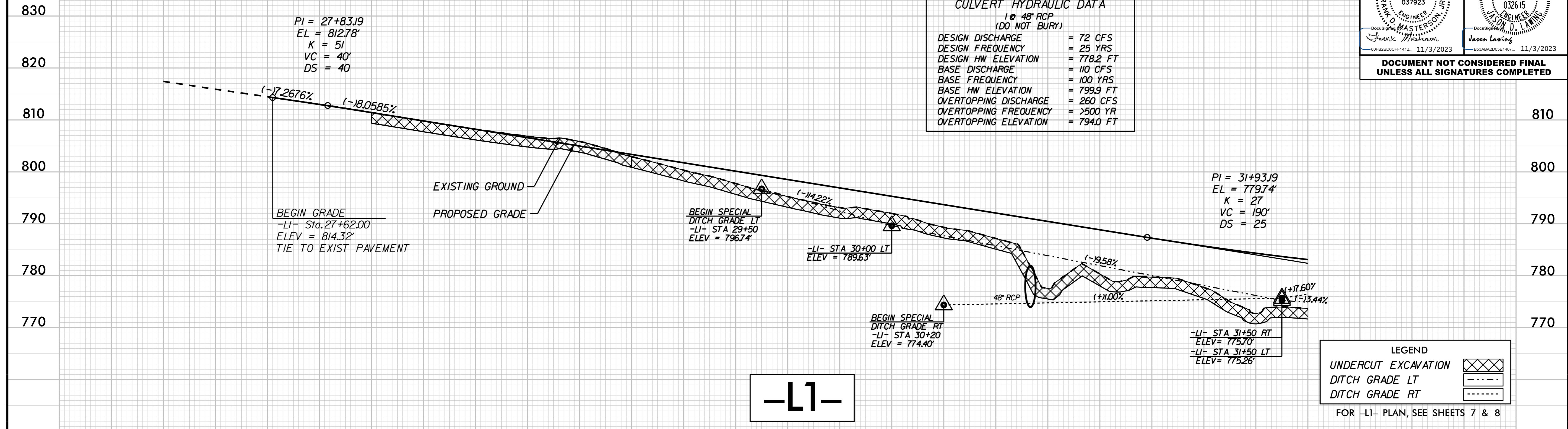
Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5907	SHEET NO. 14
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
11/3/2023	11/3/2023

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

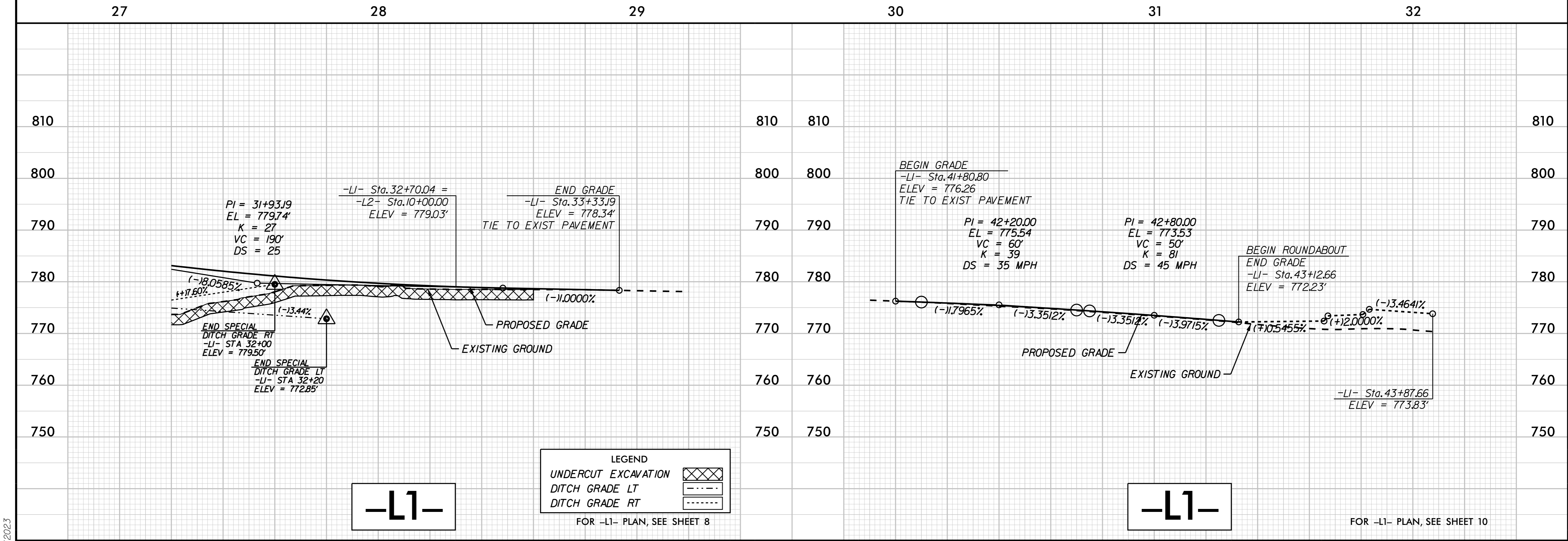
CULVERT HYDRAULIC DATA	
1 @ 48" RCP (DO NOT BURY)	
DESIGN DISCHARGE	= 72 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 778.2 FT
BASE DISCHARGE	= 110 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 799.9 FT
OVERTOPPING DISCHARGE	= 260 CFS
OVERTOPPING FREQUENCY	= >500 YR
OVERTOPPING ELEVATION	= 794.0 FT



-L1-

LEGEND	
UNDERCUT EXCAVATION	
DITCH GRADE LT	
DITCH GRADE RT	

FOR -L1- PLAN, SEE SHEETS 7 & 8



-L1-

LEGEND	
UNDERCUT EXCAVATION	
DITCH GRADE LT	
DITCH GRADE RT	

FOR -L1- PLAN, SEE SHEET 8

-L1-

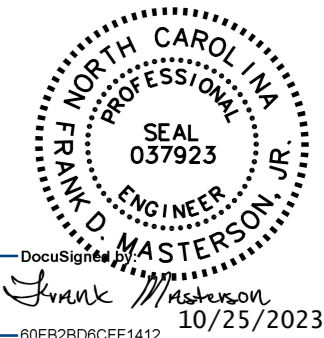
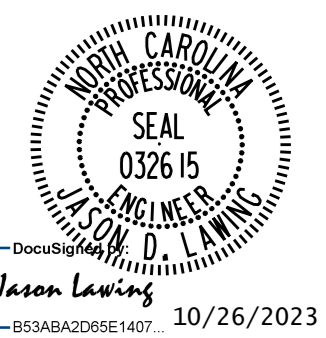
FOR -L1- PLAN, SEE SHEET 10

11/3/2023

5/14/99

Kimley»Horn

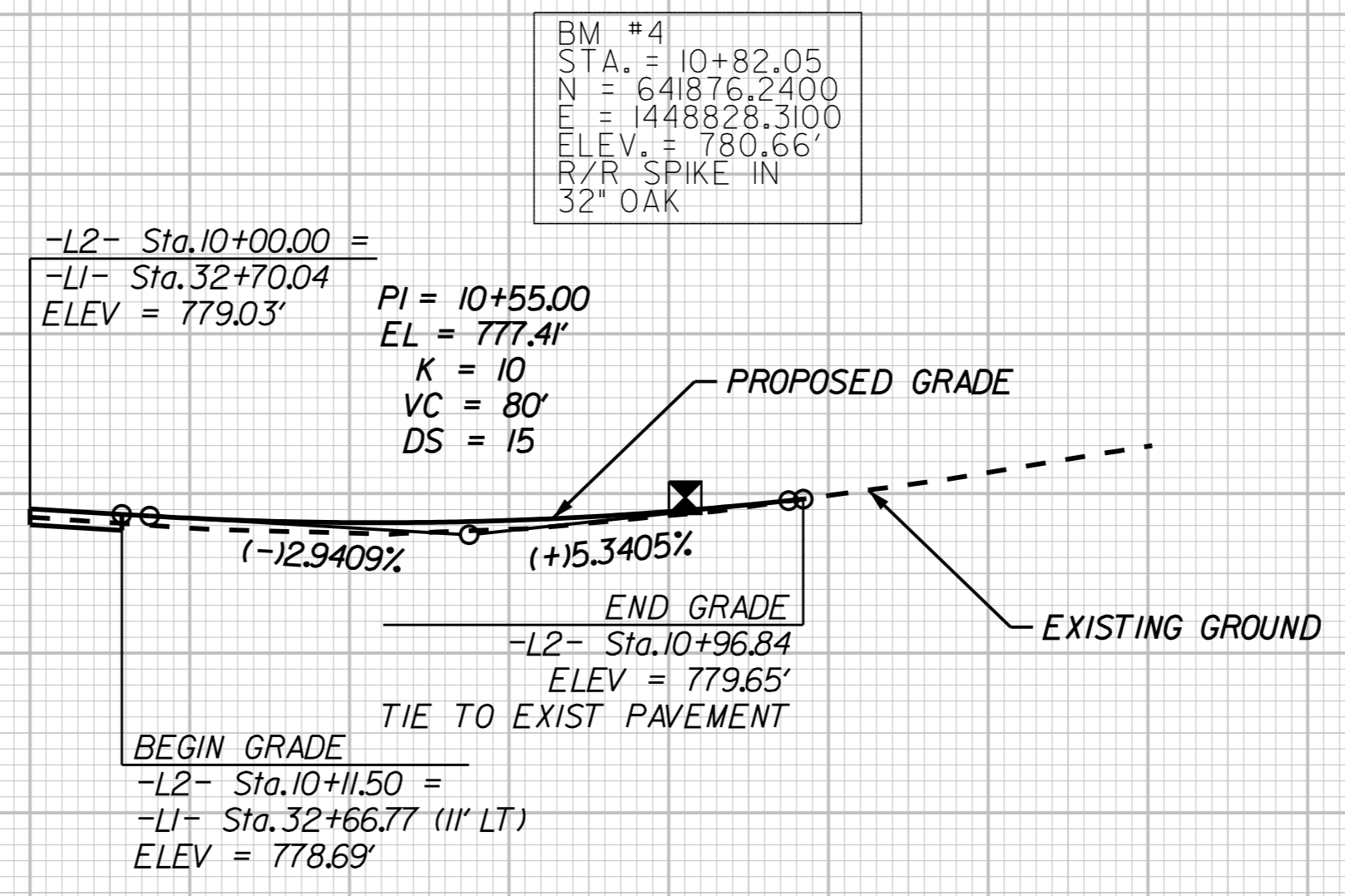
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. <i>U-5907</i>	SHEET NO. <i>15</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
DocuSign Frank D. Masters 10/25/2023	DocuSign Jason Lewis 10/26/2023

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

810
800
790
780
770
760
750

790
780
770
760
750

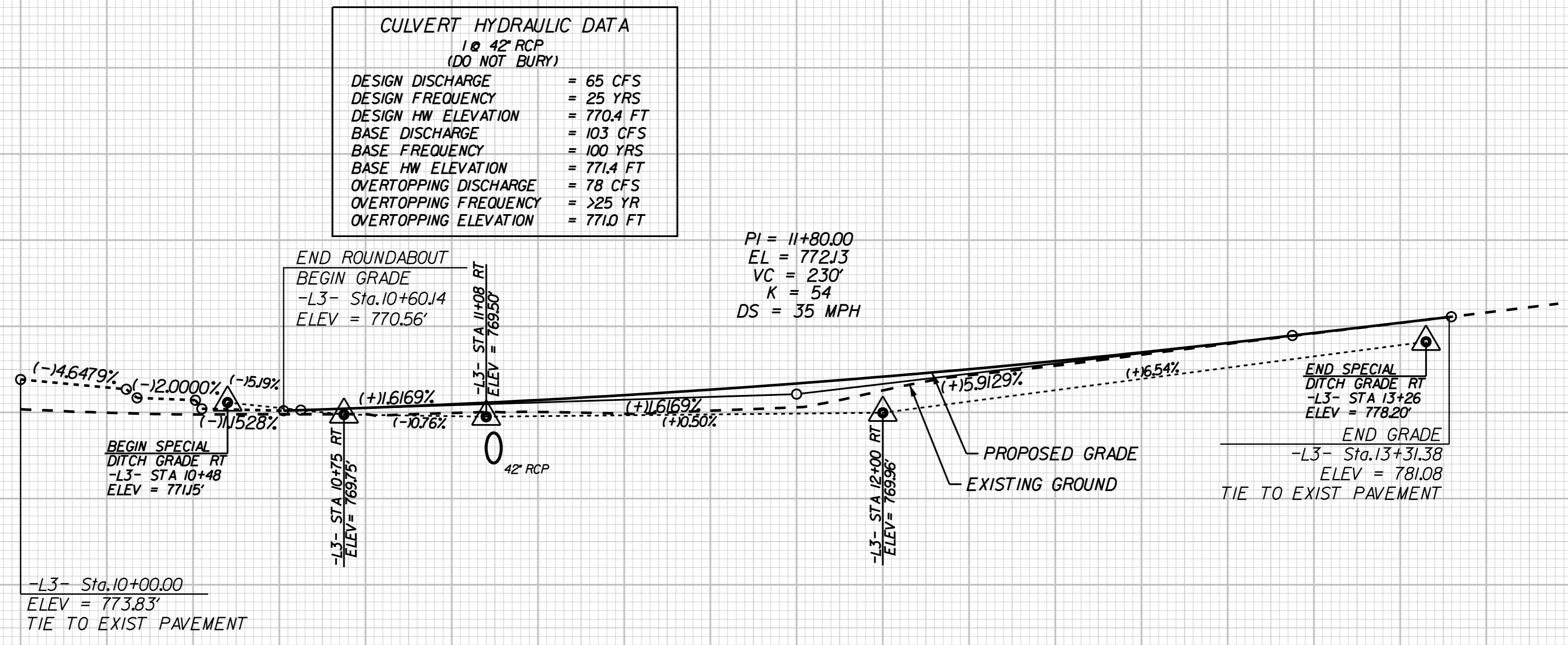


FOR -L2- PLAN, SEE SHEETS 8

10 11

800
790
780
770
760
750
740

800
790
780
770
760
750
740



LEGEND

DITCH GRADE RT

FOR -L3- PLAN, SEE SHEET 10 & 11

10 11 12 13

10/9/2023

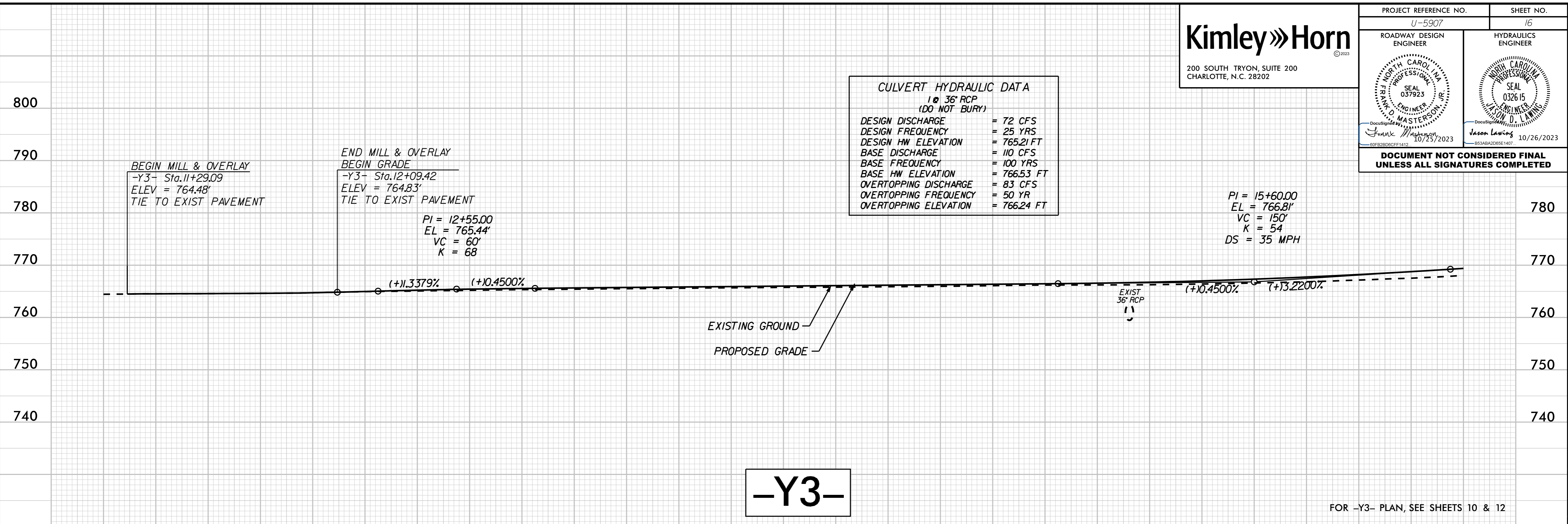
5/14/2023



200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5907	SHEET NO. 16
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
10/25/2023	10/26/2023
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CULVERT HYDRAULIC DATA	
1 @ 36" RCP (DO NOT BURY)	
DESIGN DISCHARGE	= 72 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 765.21 FT
BASE DISCHARGE	= 110 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 766.53 FT
OVERTOPPING DISCHARGE	= 83 CFS
OVERTOPPING FREQUENCY	= 50 YR
OVERTOPPING ELEVATION	= 766.24 FT



-Y3-

FOR -Y3- PLAN, SEE SHEETS 10 & 12

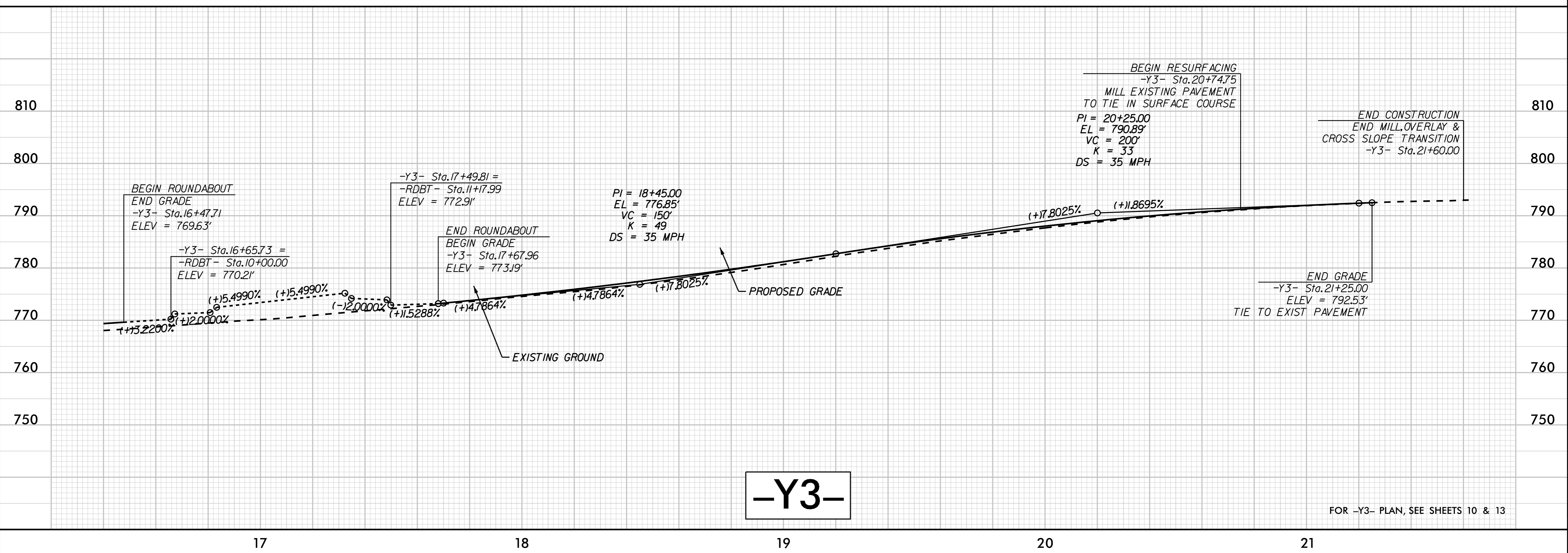
12

13

14

15

16



-Y3-

FOR -Y3- PLAN, SEE SHEETS 10 & 13

17

18

19

20

21

10/9/2023

5/14/2023

Kimley»Horn
 200 SOUTH TRYON, SUITE 200
 CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5907	SHEET NO. 17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

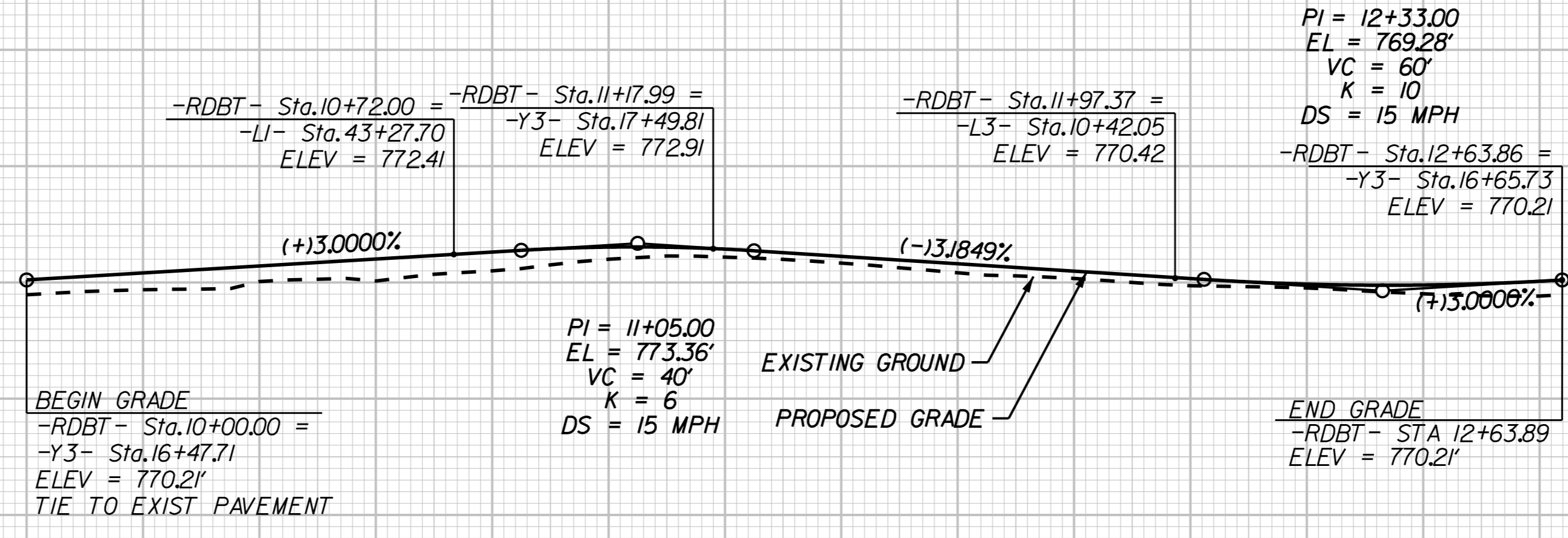
FRANK D. MASTERS
 PROFESSIONAL ENGINEER
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JASON LAWING
 PROFESSIONAL ENGINEER
 SEAL 032615
 STATE OF NORTH CAROLINA

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 UNLESS ALL SIGNATURES COMPLETED

800
790
780
770
760
750
740

780
770
760
750
740



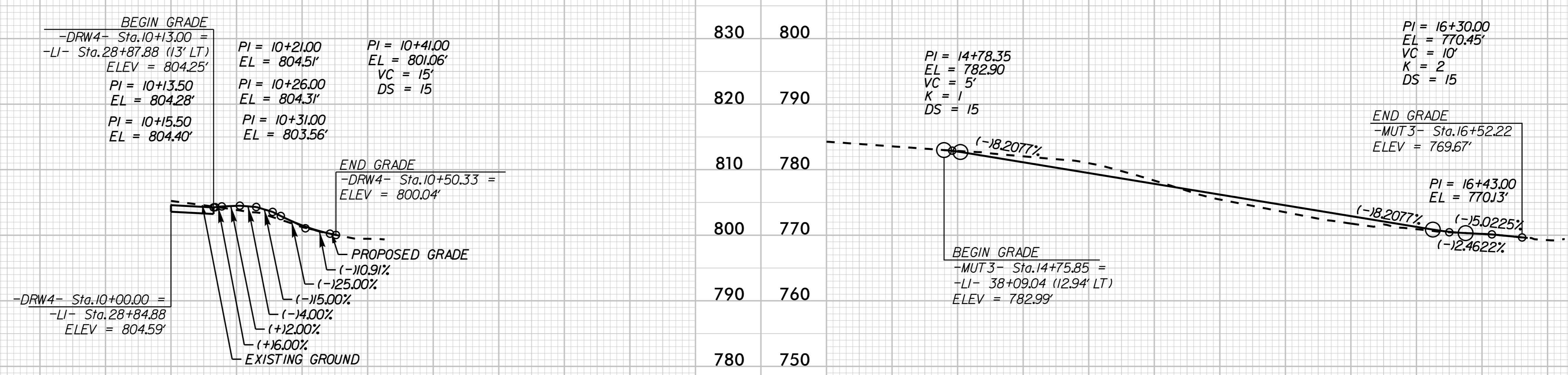
-RDBT-

FOR -RDBT- PLAN, SEE SHEET 10

10 11 12 13

840
830
820
810
800
790
780

840 810
830 800
820 790
810 780
800 770
790 760
780 750



-DRW4-

-MUT3-

FOR -DW4- PLAN, SEE SHEET 7

FOR -MUT3- PLAN, SEE SHEET 9

10 11 15 16

10/9/2023