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COMPUTED BY: NGD	DATE: 5/23/25	PROJECT NO.	SHEET NO.
CHECKED BY: JDL	DATE: 5/23/25	U-6105	3D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

| LINE & STATION / SIZE / THICKNESS OR GAUGE | OFFSET | STRUCTURE NUMBER FROM | STRUCTURE NUMBER TO | TOP ELEVATION FT. | INVERT ELEVATION FT. | INVERT ELEVATION FT. | MINIMUM REQUIRED SLOPE % | Drainage Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) 12 | 15 | 18 | 24 | 30 | 36 | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | DO NOT USE PVC | DO NOT USE PP PIPE | R. C. PIPE CLASS IV 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | | R. C. PIPE CLASS V 12 | 15 | 18 | 24 | 30 | | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY | REINFORCED ENDWALLS CY | DRAINAGE STRUCTURE MASONRY CY | QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH | A: 5' THRU 10' LIN. FT. | B: 10' AND ABOVE LIN. FT. | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E | F | G | | CONCRETE TRANSITIONAL SECTION D.I. STD. 852.06 | D.I. STD. 852.04 OR STD. 852.06 | C.B. STD. 852.05 | OPEN THROAT C.B. STD. 840.04 OR STD. 840.05 | CONCRETE BRIDGE APPROACH D.I. STD. 840.13 | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATES STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26 | G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27 | G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29 | G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | DRIVEWAY D.I. STD. 840.30 | FRAME W/ GRATE FOR DRIVEWAY STD. 840.30 | J.B. STD. 840.31 OR STD. 840.32 | ANGLED VANE GRATES AND FRAMES STD. 840.33 | T.B.J.B. STD. 840.34 | T.B.D.I. STD. 840.35 | M.H. STD. 840.51, STD. 840.52, OR STD. 840.53 | M.H. FRAME AND COVER STD. 840.54 | 15" C.S. ELBOW | CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---|---

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COMPUTED BY:	NGD	DATE:	5/23/25
CHECKED BY:	JDL	DATE:	5/23/25

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-6105	3D-2

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54 INCHES & OVER)

| LINE & STATION / SIZE / THICKNESS OR GAUGE | OFFSET | STRUCTURE NUMBER FROM | STRUCTURE NUMBER TO | TOP ELEVATION FT. | INVERT ELEVATION FT. | INVERT ELEVATION FT. | MINIMUM REQUIRED SLOPE % | R. C. PIPE CLASS IV 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | | STRUCTURAL PLATE PIPE 60 | 66 | 72 | | | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY | REINFORCED ENDWALLS CY | DRAINAGE STRUCTURE MASONRY CY | QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH | A: 5' THRU 10' LIN. FT. | B: 10' AND ABOVE LIN. FT. | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E | F | G | | CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06 | C.B. STD. 852.05 | OPEN THROAT C.B. STD. 840.04 OR STD. 840.05 | CONCRETE BRIDGE APPROACH D.I. STD. 840.13 | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATES STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26 | G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27 | G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28 | G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20 | G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20 | G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22 | G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22 | G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29 | G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | DRIVEWAY D.I. STD. 840.30 | FRAME W/ GRATE FOR DRIVEWAY STD. 840.30 | J.B. STD. 840.31 OR STD. 840.32 | ANGLED VANE GRATES AND FRAMES STD. 840.33 | T.B.J.B. STD. 840.34 | T.B.D.I. STD. 840.35 | T.B.D.I. FOR STEEL GRATES STD. 840.36 | STEEL FRAME WITH TWO GRATES STD. 840.37 | TEMP STEEL PLATE COVER MASONRY DRAINAGE | SPRING BOX STD. 840.41 | M.H. STD. 840.51, STD. 840.52, OR STD. 840.53 | M.H. FRAME AND COVER STD. 840.54 | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---|---

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COMPUTED BY: Paul Weaver	DATE: 11/08/2023
CHECKED BY: Michael Ulmer	DATE: 03/14/2024

PROJECT REFERENCE NO.	SHEET NO.
U-6105	3G-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GEOTECHNICAL SUMMARY

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT	Drain Type* UD/BD/SD	LF
–L–	10+50	12+75	RT	SD	600
–L–	27+98	28+47	CL	SD	151
CONTINGENCY				SD	300
				TOTAL LF	1051
				SAY	1051

*UD = Underdrain
*BD = Blind Drain
*SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE / STABILIZATION

LINE	Station	Station	Aggregate Type* ASU /AST	Aggregate Thickness INCHES	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
–L–	28+90	34+25	ASU	12	840	1680	2590		
–Y3–	10+25	11+40	ASU	12	120	240	360		
–Y4–	10+18	10+85	ASU	12	70	140	210		
–L–	10+25	26+50	ASU	12			7100		
–G1–	10+00	11+02.39					316		
–G1–	11+83.39	13+00					168		
–G2–	10+05	14+12.77					589		
CONTINGENCY					200	400	600		
CONTINGENCY			AST	3				500	
			TOTAL CY/TONS/SY		1230	2460**	11933**	500	
				SAY	1230	2460**	11933**	500	

*ASU = Aggregate Subgrade
*AST = Aggregate Stabilization
**Total tons of "Geotextile for Class IV Subgrade Stabilization" and total square yards of "Geotextile for Soil Stabilization" are only the estimated quantities for ASU/AST and may only represent a portion of the geotextile quantity shown in the Item Sheets of the Proposal.

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-6105	3P-1

REVISIONS

PARCEL INDEX SHEET

PARCEL NO.	SHEET NO.	PROPERTY OWNERS NAMES
1	4,5	KAY DWYER COOKE
3	5	MECKLENBURG COUNTY
4	5,6	WILLIAM KENNEDY
5	5,6	MV2 INVESTMENTS LLC
6	5,6	LEONARD CHANDLER & WIFE LOIS STEFAN RATHMANN & WIFE KERRY
8	6	OUR TOWNS OF NORTH MECKLENBURG-SOUTH IREDELL HABITAT FOR HUMANITY, INC
9	6	KERRY RATHMANN & SPOUSE STEFAN
10	6	HYDE PARK III LLC
11	6	HMS WORLDWIDE PROPERTIES LLC
12	6	SWEET MAGNOLIA
13	6	JAMES MUMBY & DAVID CROCKETT
14	6	CHRISTINE A. MASON

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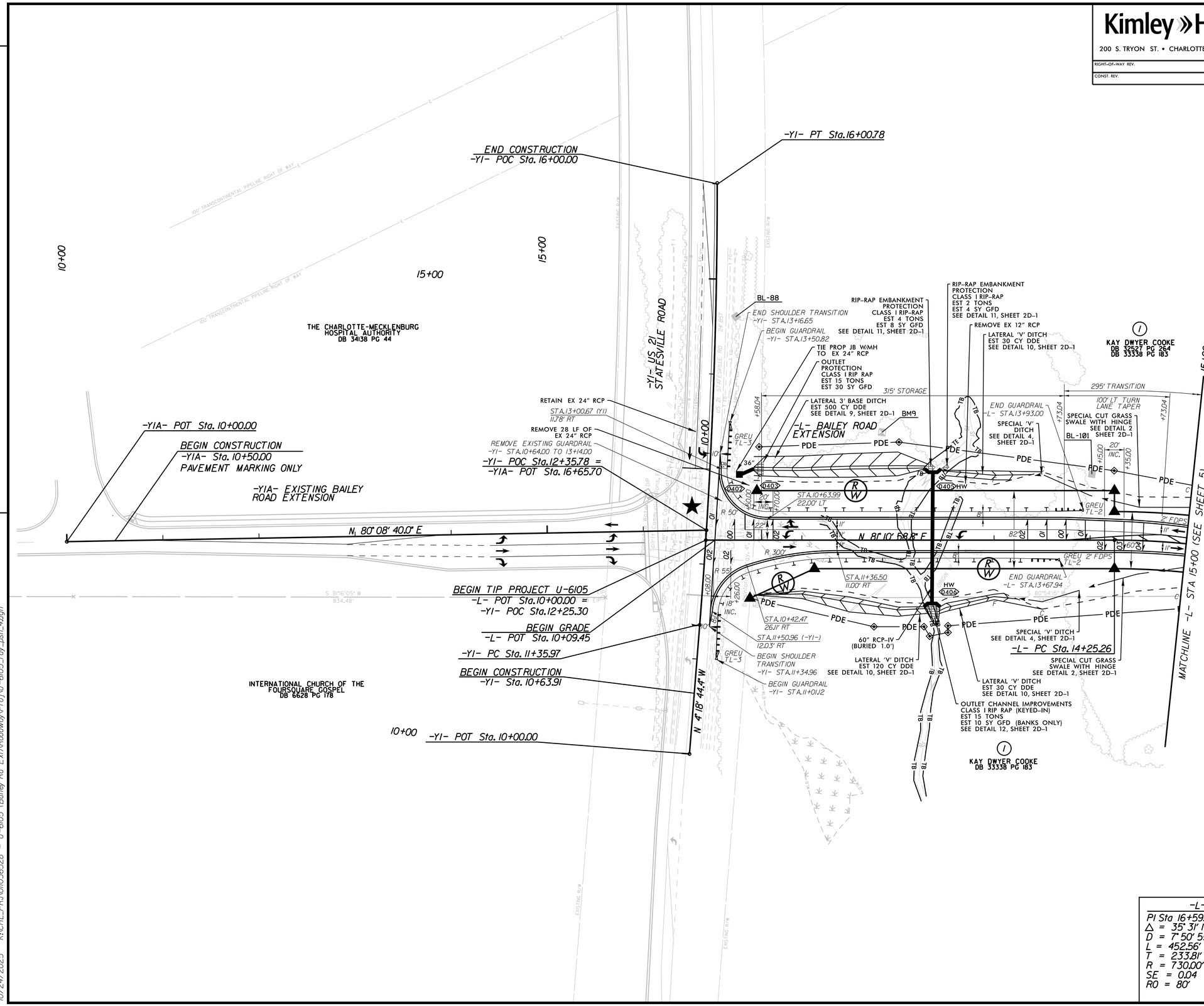
REVISIONS



-L-
PI Sta 16+59.07
Δ = 35° 31' 11.6" (RT)
D = 7° 50' 55.5"
L = 452.56'
T = 233.81'
R = 730.00'
SE = 0.04
RO = 80'

PROPOSED CONCRETE MONOLITHIC ISLANDS, APRON, DRIVEWAYS, AND SIDEWALK

REMOVAL OF EXISTING ASPHALT AND CONCRETE PAVEMENT

★ TRAFFIC SIGNAL

RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

SEE SHEET 2D-1 FOR DRAINAGE DETAILS

SEE SHEET 7 FOR -L- PROFILE

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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-6105	4
R/W SHEET NO.	

ROADWAY ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 036193 ENGINEER JASON D. LAWING — 11/25/2025

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 036193 ENGINEER JASON D. LAWING — 11/25/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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REVISIONS

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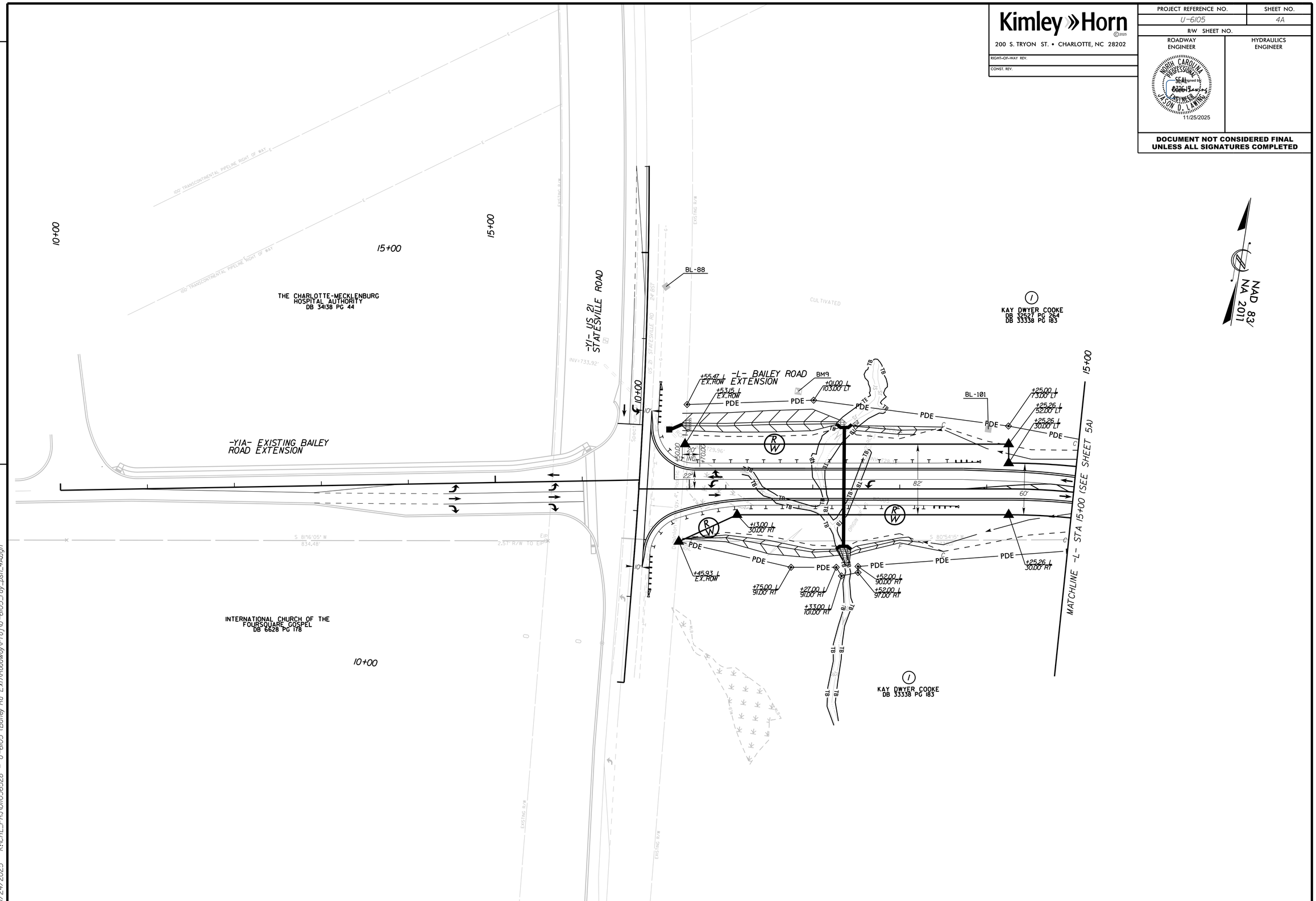
RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-6105	4A
R/W SHEET NO.	
ROADWAY ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 036473 ENGINEER JACON D. LEWIS
DocuSigned by: Jacon Lewis
11/25/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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REVISIONS

-L-
PI Sta 16+59.07
△ = 35° 31' 11.6" (RT)
D = 7° 50' 55.5"
L = 452.56'
T = 233.81'
R = 730.00'
SE = 0.04
RO = 80'

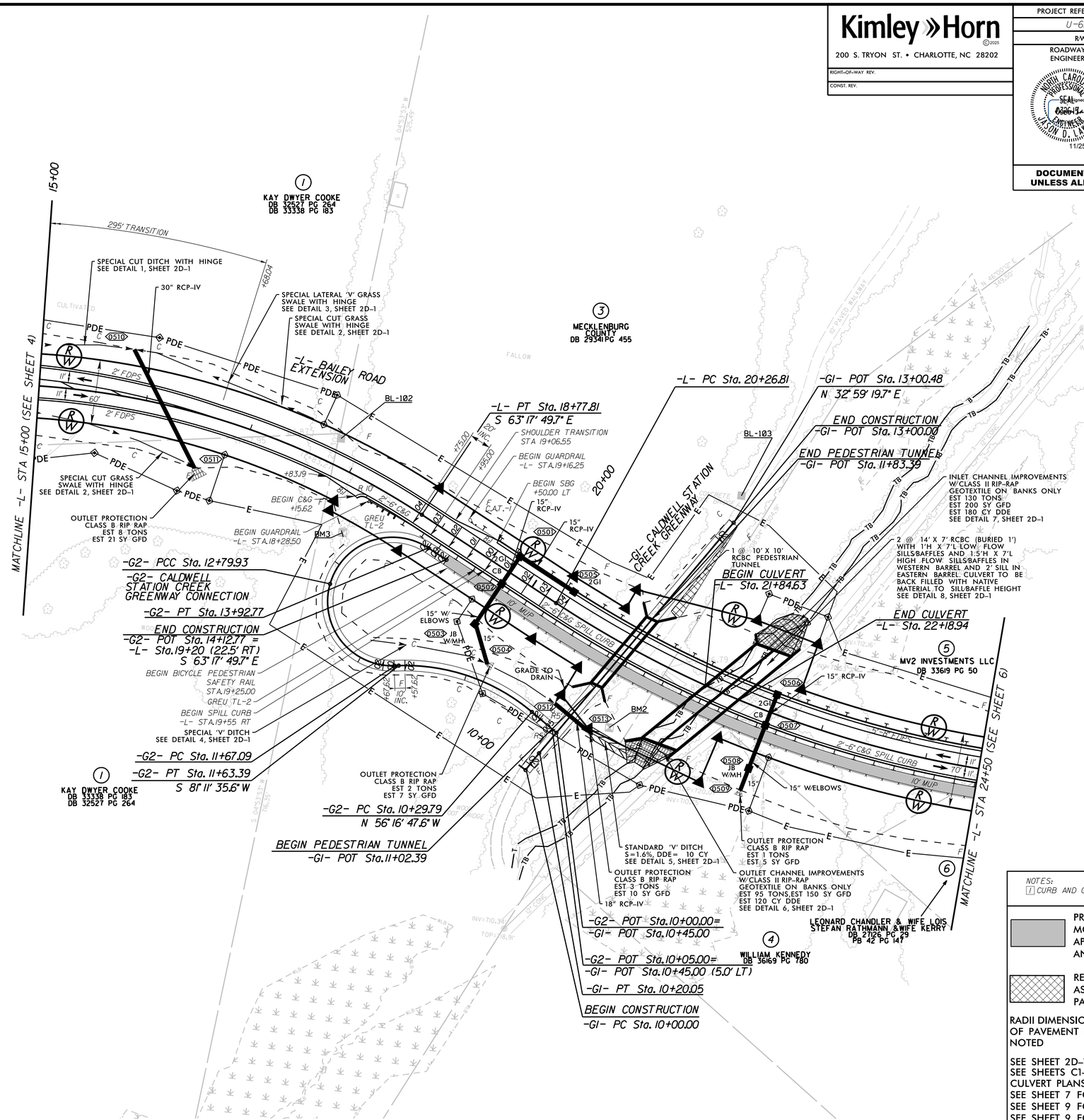
-L-
PI Sta 23+25.18
△ = 32° 54' 56.4" (LT)
D = 5° 40' 22.3"
L = 580.23'
T = 298.37'
R = 1,010.00'
SE = 0.04
RO = 80'

-G1-
PI Sta 10+10.03
△ = 2° 33' 11.1" (RT)
D = 12° 43' 56.6"
L = 20.05'
T = 10.03'
R = 450.00'
SE = 0.02

-G2-
PI Sta 10+99.84
△ = 42° 31' 36.8" (LT)
D = 31° 49' 51.6"
L = 133.60'
T = 70.05'
R = 180.00'
SE = 0.02
RO = 20'

-G2-
PI Sta 12+49.31
△ = 107° 45' 17.4" (RT)
D = 95° 29' 34.7"
L = 112.84'
T = 82.21'
R = 60.00'
SE = 0.02

-G2-
PI Sta 13+62.15
△ = 107° 45' 17.4" (RT)
D = 95° 29' 34.7"
L = 112.84'
T = 82.21'
R = 60.00'
SE = 0.02
RO = 20'



NOTES:
1. CURB AND GUTTER END TREATMENT

PROPOSED CONCRETE MONOLITHIC ISLANDS, APRON, DRIVEWAYS, AND SIDEWALK

REMOVAL OF EXISTING ASPHALT AND CONCRETE PAVEMENT

RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

SEE SHEET 2D-1 FOR DRAINAGE DETAILS
SEE SHEETS C1-1 THRU C2-8 FOR CULVERT PLANS
SEE SHEET 7 FOR -L- PROFILE
SEE SHEET 9 FOR -G1- PROFILE
SEE SHEET 9 FOR -G2- PROFILE

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RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-6105	5
R/W SHEET NO.	

ROADWAY ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 036193 ENGINEER JASON D. LAWSON — 11/25/2025
HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 036193 ENGINEER JASON D. LAWSON — 11/25/2025

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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-6105	5A
R/W SHEET NO.	
ROADWAY ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 036193 ENGINEER JASON D. LAWSON
DocuSigned by: 8B6F3A4A0A0A4A0...
11/25/2025

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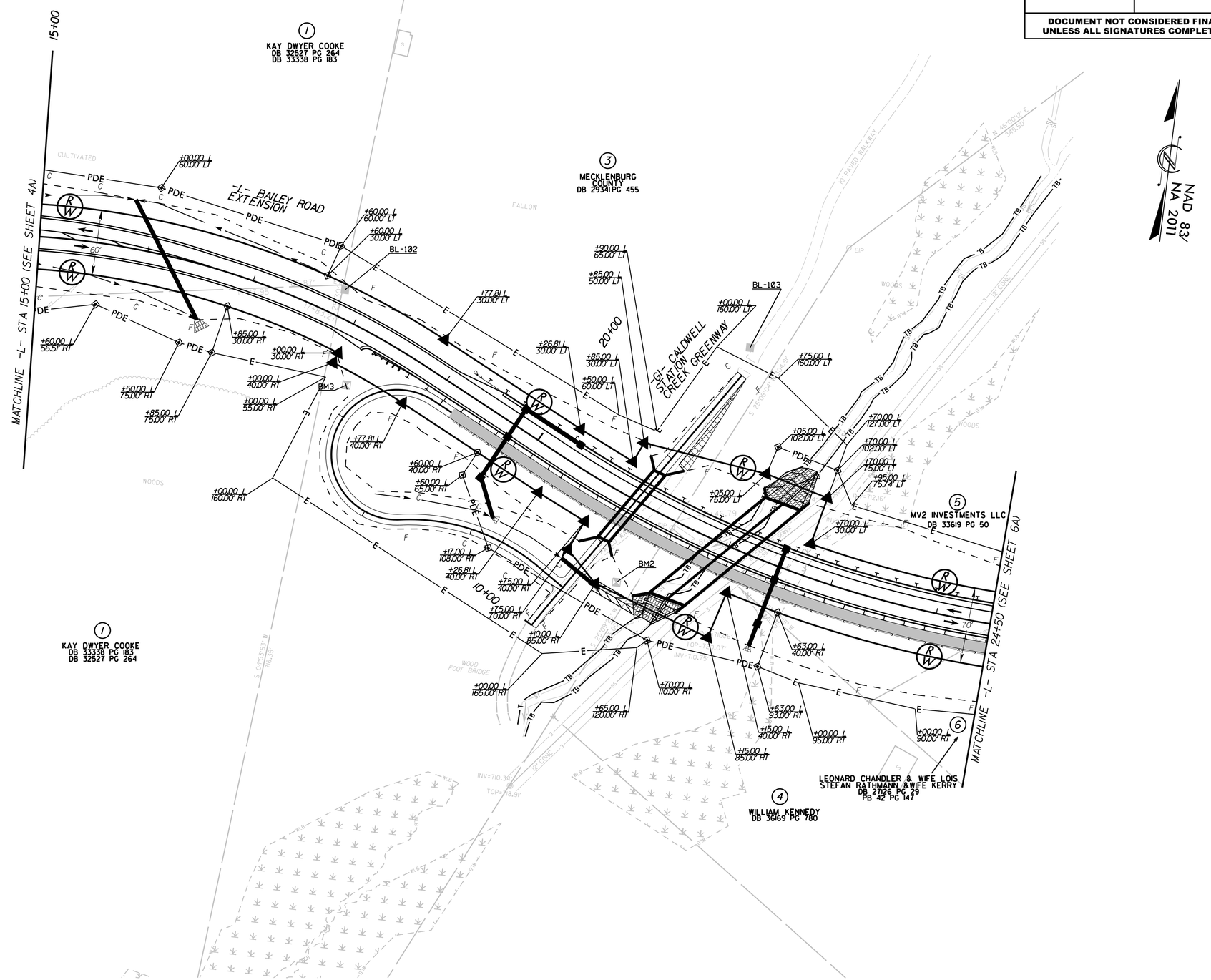

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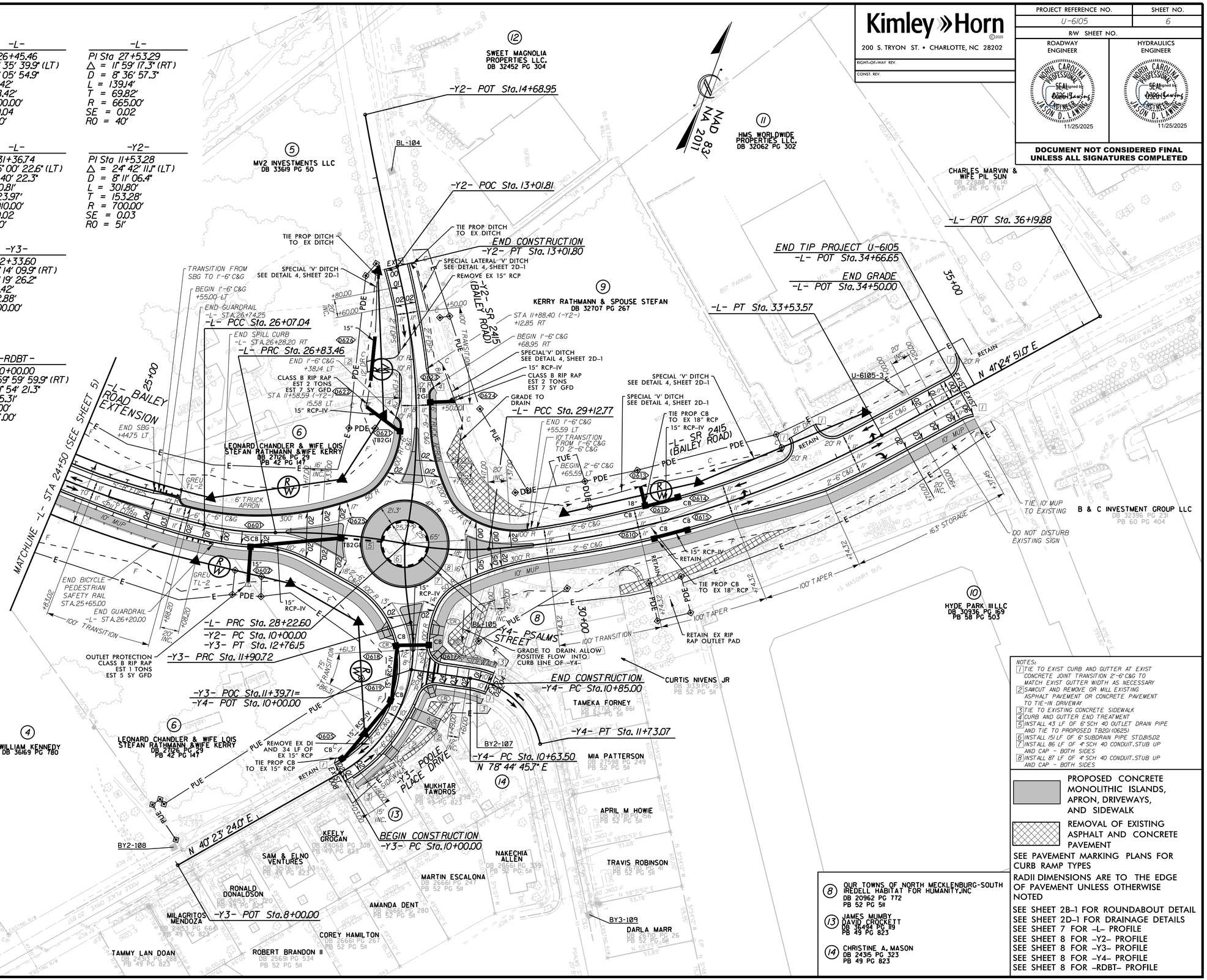
REVISIONS

-L-	-L-	-L-
PI Sta 23+25.18	PI Sta 26+45.46	PI Sta 27+53.29
△ = 32° 54' 56.4" (LT)	△ = 14° 35' 39.9" (LT)	△ = 11° 59' 17.3" (RT)
D = 5° 40' 22.3"	D = 19° 05' 54.9"	D = 8° 36' 57.3"
L = 580.23'	L = 76.42'	L = 139.14'
T = 298.37'	T = 38.42'	T = 69.82'
R = 1,010.00'	R = 300.00'	R = 665.00'
SE = 0.04	SE = 0.04	SE = 0.02
RO = 80'	RO = 80'	RO = 40'

-L-	-L-	-Y2-
PI Sta 28+67.93	PI Sta 31+36.74	PI Sta 11+53.28
△ = 14° 45' 37.8" (LT)	△ = 25° 00' 22.6" (LT)	△ = 24° 42' 11.1" (LT)
D = 16° 22' 12.8"	D = 5° 40' 22.3"	D = 8° 11' 06.4"
L = 90.17'	L = 440.81'	L = 301.80'
T = 45.33'	T = 223.97'	T = 153.28'
R = 350.00'	R = 1,010.00'	R = 700.00'
SE = 0.02	SE = 0.02	SE = 0.03
RO = 30'	RO = 40'	RO = 51'

-Y3-	-Y3-
PI Sta 11+09.54	PI Sta 12+33.60
△ = 70° 30' 02.6" (LT)	△ = 12° 14' 09.9" (RT)
D = 36° 57' 54.1"	D = 14° 19' 26.2"
L = 190.72'	L = 85.42'
T = 109.54'	T = 42.88'
R = 155.00'	R = 400.00'
SE = 0.02	
RO = 30'	

-Y4-	-RDBT-
PI Sta 11+26.23	PI Sta 10+00.00
△ = 69° 45' 21.4" (RT)	△ = 359° 59' 59.9" (RT)
D = 63° 39' 43.1"	D = 12° 54' 21.3"
L = 109.57'	L = 295.31'
T = 62.73'	T = 0.00'
R = 90.00'	R = 47.00'



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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-6105	6
R/W SHEET NO.	

ROADWAY ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 036193 ENGINEER JASON D. LAWSON
11/25/2025

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 036193 ENGINEER JASON D. LAWSON
11/25/2025

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NOTES:
1. TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
2. SAWCUT AND REMOVE OR MILL EXISTING ASPHALT PAVEMENT OR CONCRETE PAVEMENT TO TIE-IN DRIVEWAY
3. TIE TO EXISTING CONCRETE SIDEWALK
4. CURB AND GUTTER END TREATMENT
5. INSTALL 43 LF OF 6" SCH 40 OUTLET DRAIN PIPE AND TIE TO PROPOSED TB2G1 (0625)
6. INSTALL 151 LF OF 6" SUBDRAIN PIPE STD.815.02
7. INSTALL 86 LF OF 4" SCH 40 CONDUIT. STUB UP AND CAP - BOTH SIDES
8. INSTALL 87 LF OF 4" SCH 40 CONDUIT. STUB UP AND CAP - BOTH SIDES

PROPOSED CONCRETE MONOLITHIC ISLANDS, APRON, DRIVEWAYS, AND SIDEWALK

REMOVAL OF EXISTING ASPHALT AND CONCRETE PAVEMENT

SEE PAVEMENT MARKING PLANS FOR CURB RAMP TYPES

RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

SEE SHEET 2B-1 FOR ROUNDABOUT DETAIL
SEE SHEET 2D-1 FOR DRAINAGE DETAILS
SEE SHEET 7 FOR -L- PROFILE
SEE SHEET 8 FOR -Y2- PROFILE
SEE SHEET 8 FOR -Y3- PROFILE
SEE SHEET 8 FOR -Y4- PROFILE
SEE SHEET 8 FOR -RDBT- PROFILE

(8) OUR TOWNS OF NORTH MECKLENBURG-SOUTH IREDELL HABITAT FOR HUMANITY,INC DB 20962 PG 772 PB 52 PG 511

(13) JAMES MUMBY DAVID CROCKETT DB 26494 PG 89 PB 49 PG 823

(14) CHRISTINE A. MASON DB 24315 PG 323 PB 49 PG 823

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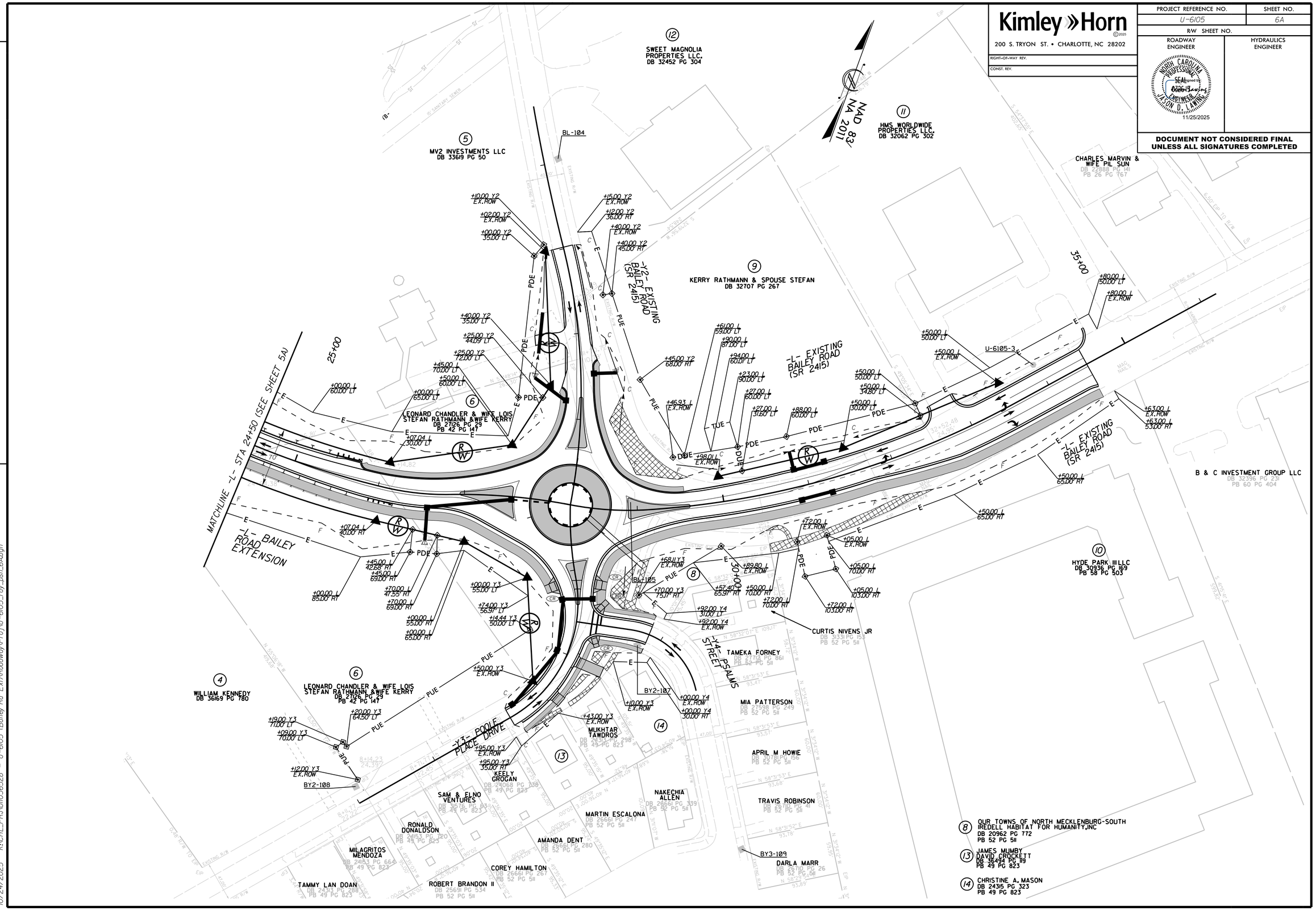
REVISIONS



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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-6105	6A
R/W SHEET NO.	
ROADWAY ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036647 LAVON D. LAWSON

DocuSigned by: LAVON D. LAWSON, P.E. 11/25/2025

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RIGHT-OF-WAY REV.

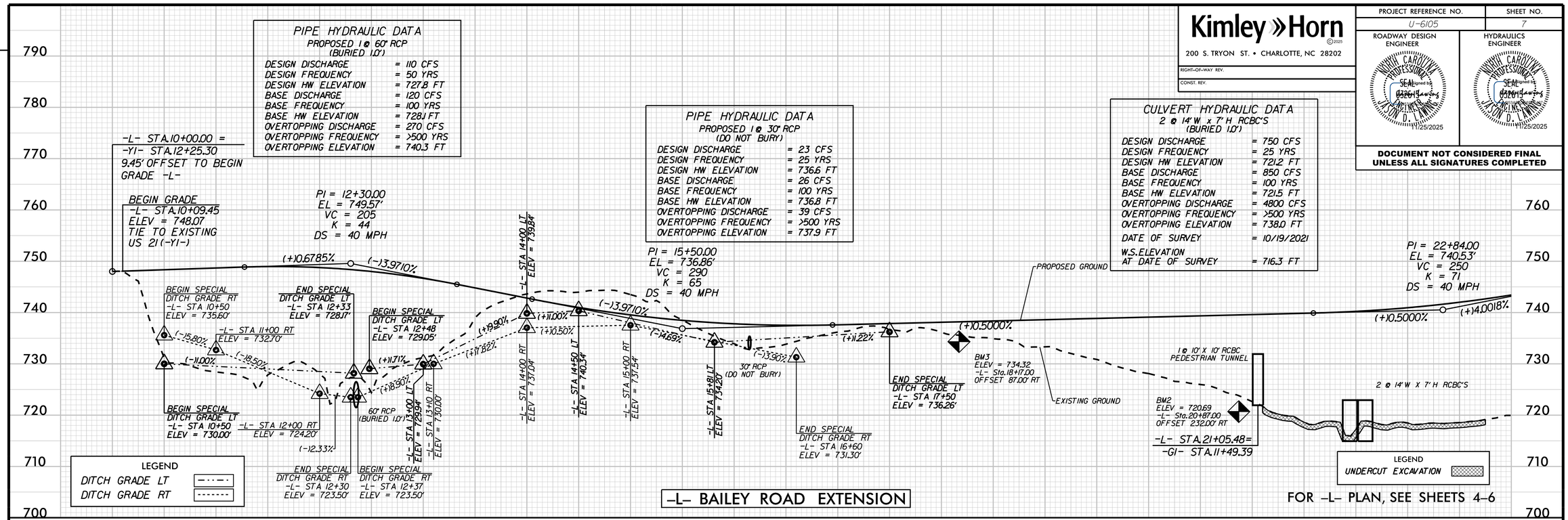
CONST. REV.

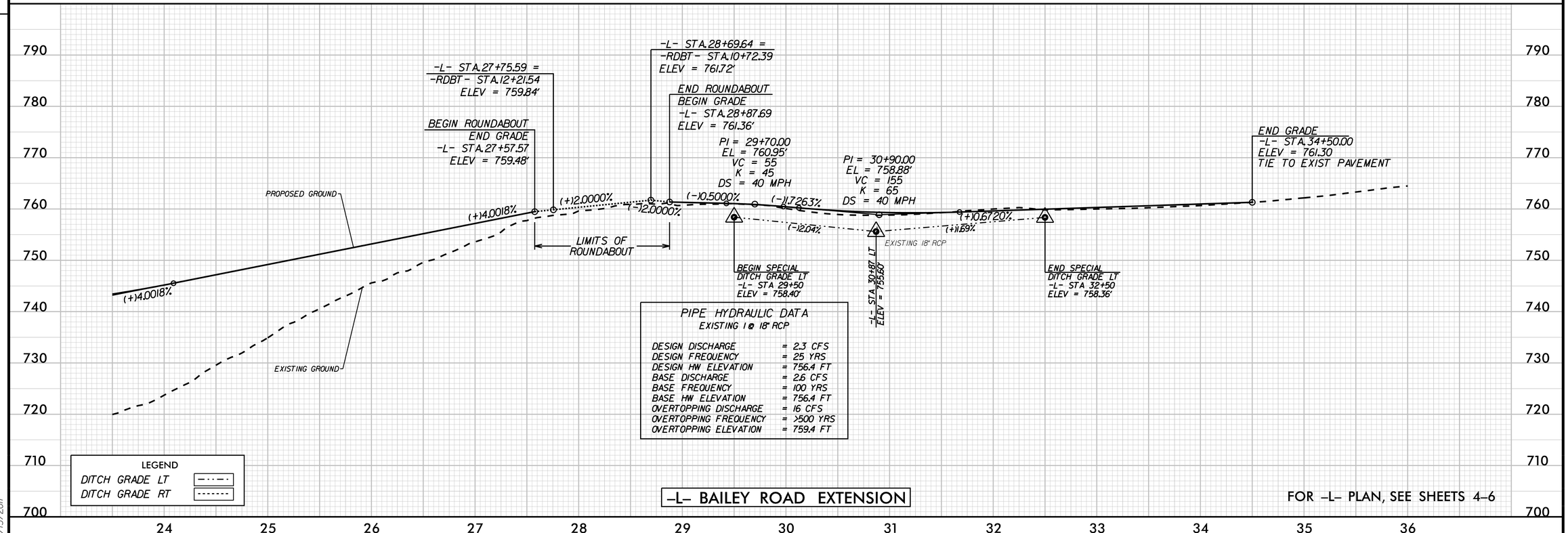
PROJECT REFERENCE NO.	SHEET NO.
U-6105	7

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 032615 ENGINEER — DOCUSIGNED BY: 11/25/2025

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 032615 ENGINEER — DOCUSIGNED BY: 11/25/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED





11/13/2017

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REVISIONS

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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-6105	8

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 036194 ENGINEER JOHN D. LANING — Docusigned by: 1/25/2025

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 036194 ENGINEER JOHN D. LANING — Docusigned by: 1/25/2025

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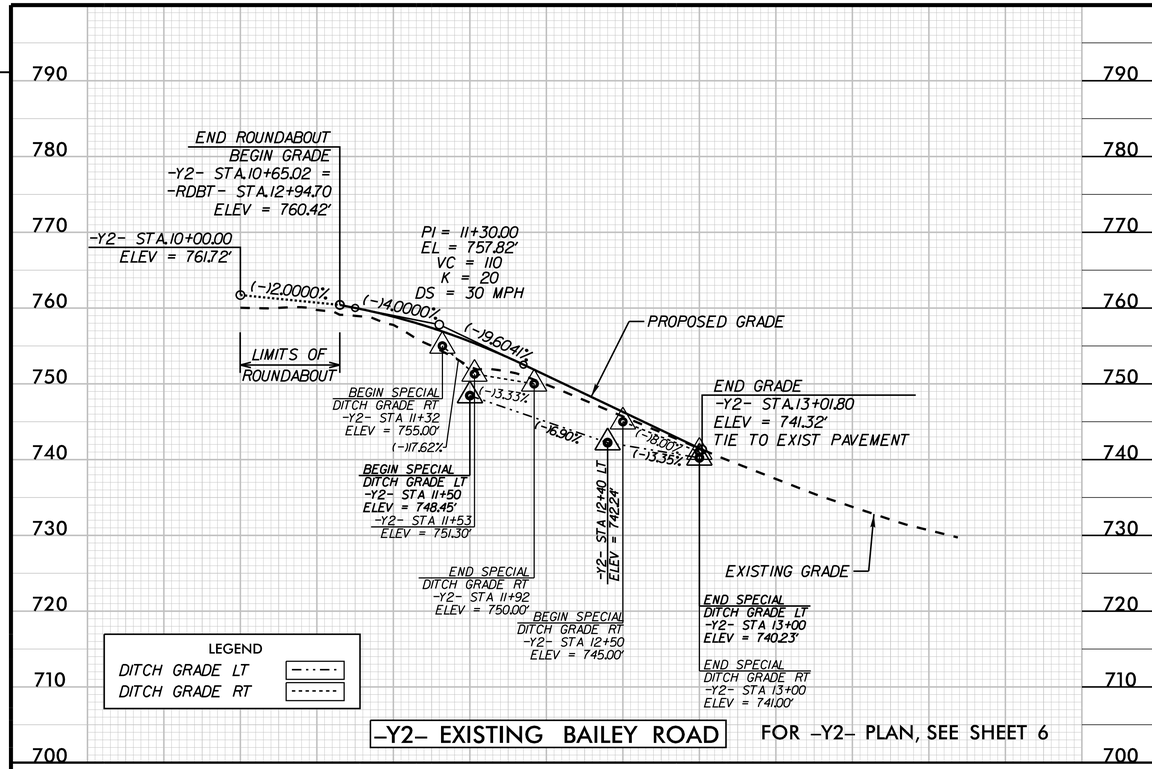
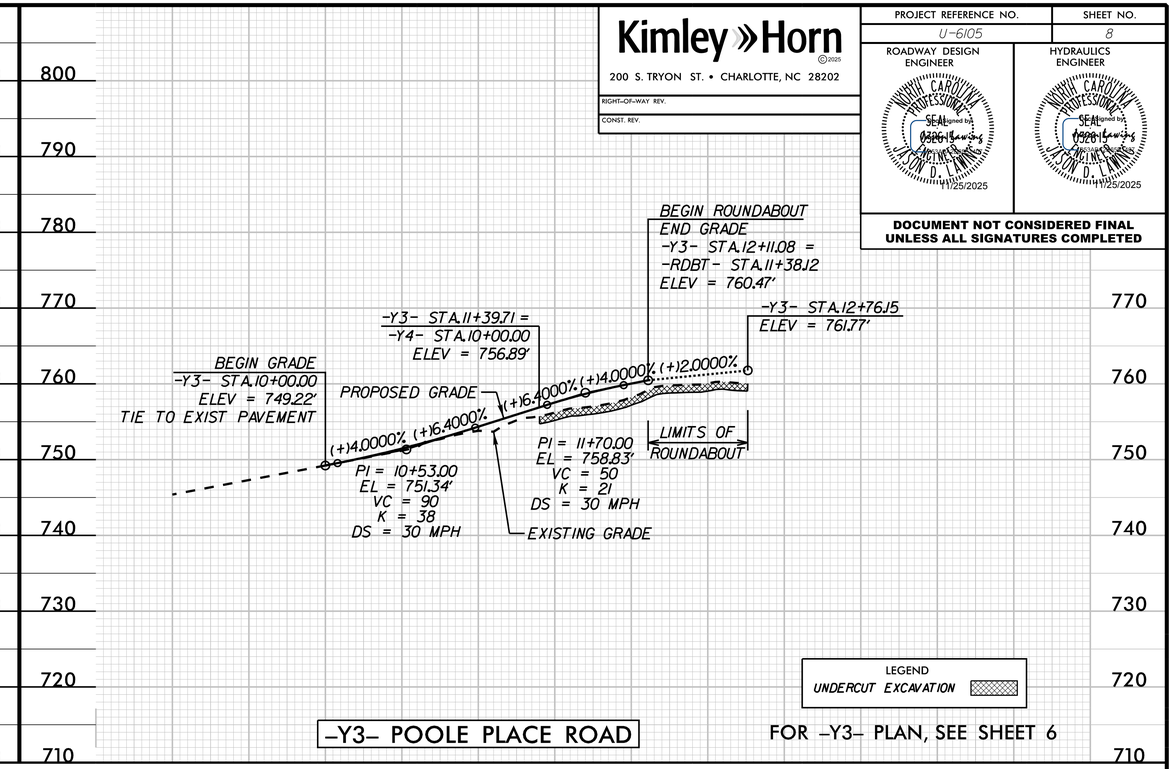


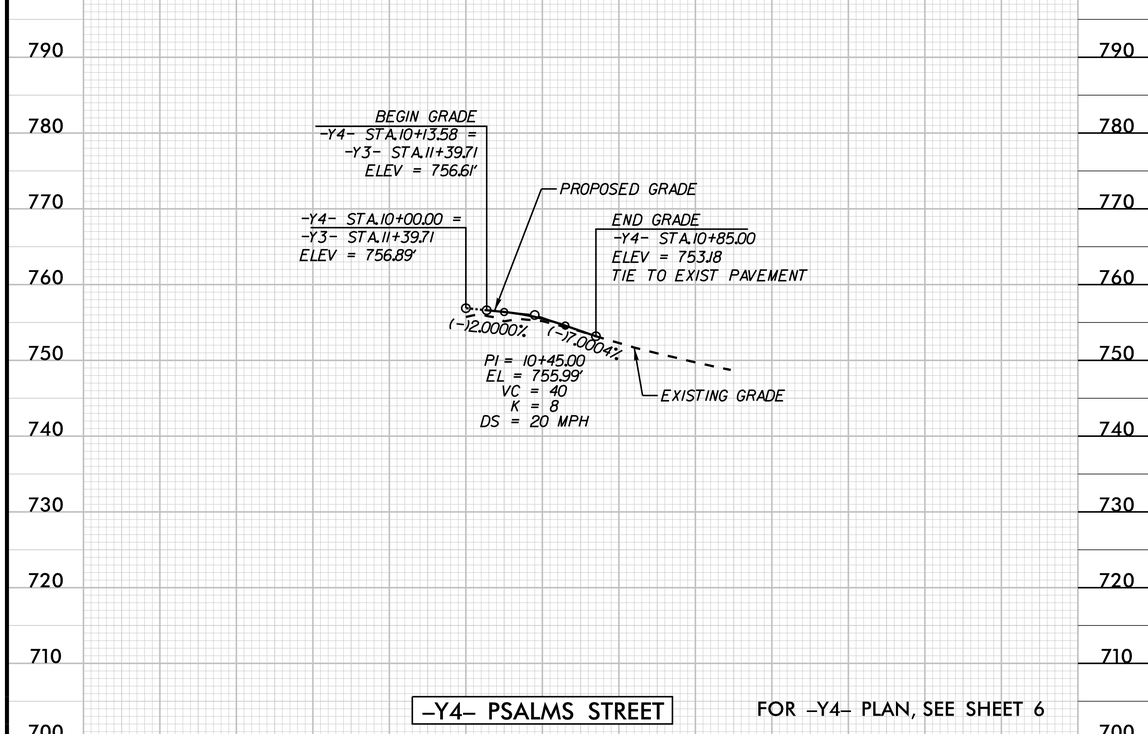
-Y2- EXISTING BAILEY ROAD

FOR -Y2- PLAN, SEE SHEET 6



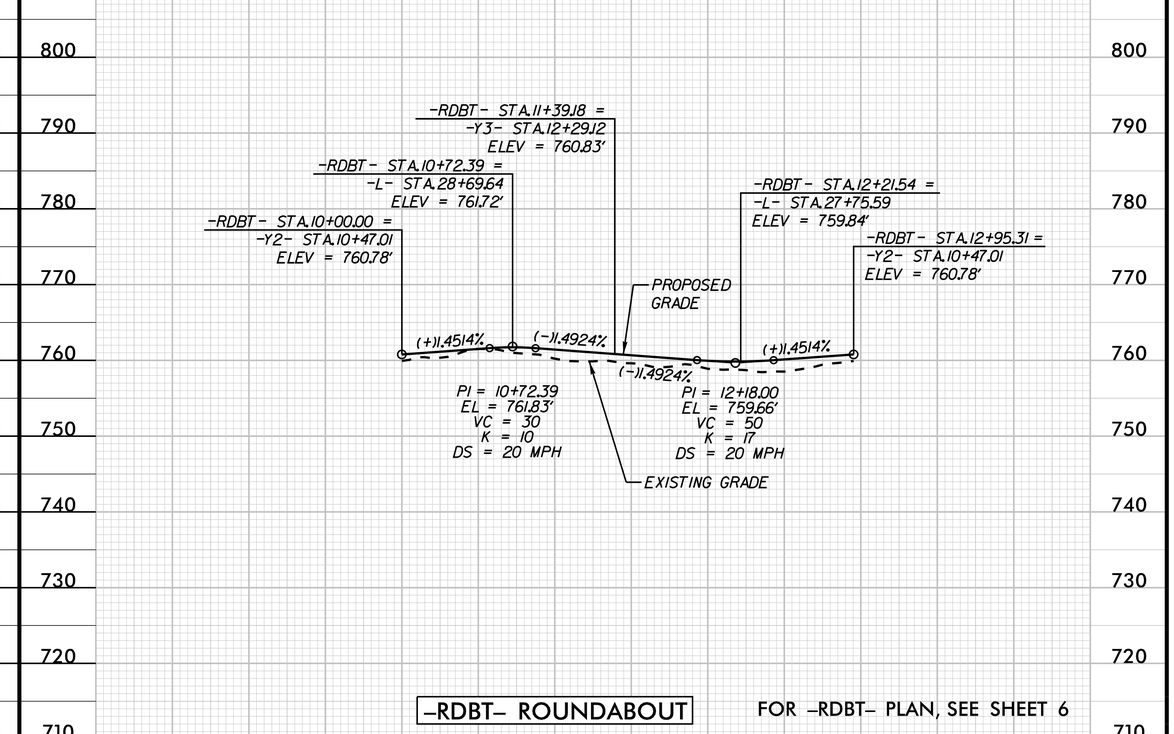
-Y3- POOLE PLACE ROAD

FOR -Y3- PLAN, SEE SHEET 6



-Y4- PSALMS STREET

FOR -Y4- PLAN, SEE SHEET 6



-RDBT- ROUNDABOUT

FOR -RDBT- PLAN, SEE SHEET 6

11/13/2017

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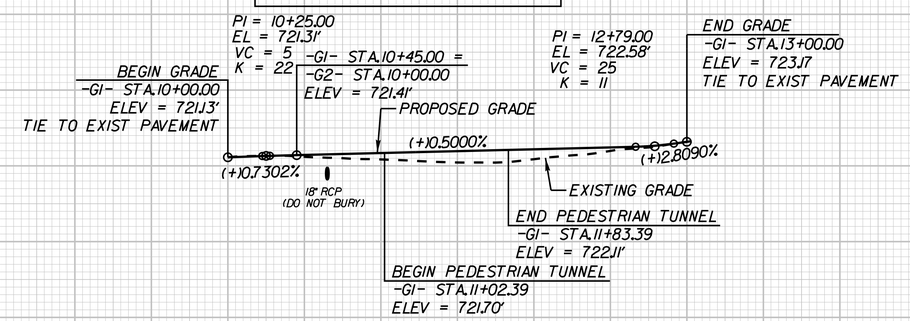
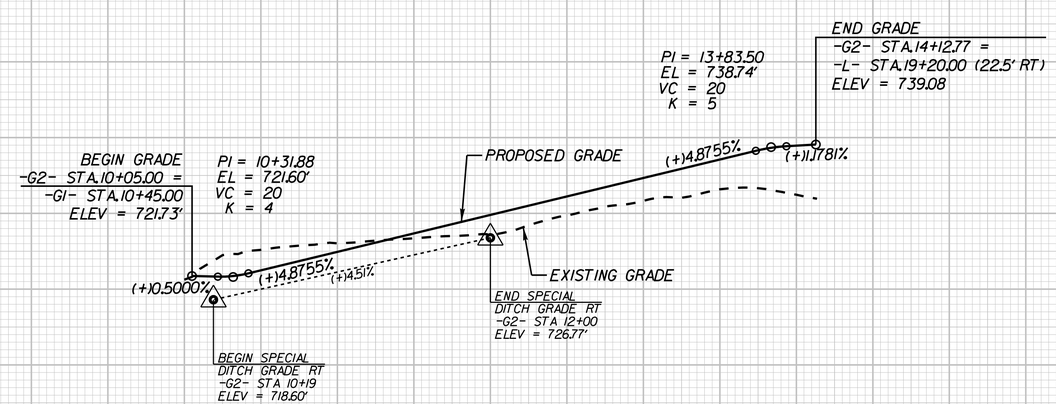
REVISIONS

PIPE HYDRAULIC DATA PROPOSED 1 @ 18" RCP (DO NOT BURY)	
DESIGN DISCHARGE	= 31 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 719.5 FT
BASE DISCHARGE	= 35 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 719.6 FT
OVERTOPPING DISCHARGE	= 14 CFS
OVERTOPPING FREQUENCY	= >500 YRS
OVERTOPPING ELEVATION	= 721.5 FT



-G1- CALDWELL STATION CREEK GREENWAY

FOR -G1- PLAN, SEE SHEET 5



LEGEND

DITCH GRADE LT	
DITCH GRADE RT	

-G2- CALDWELL STATION CREEK GREENWAY CONNECTION

FOR -G2- PLAN, SEE SHEET 5

11/13/2017

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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-6105	9

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 0326 ENGINEER ALVIN D. LAWSON
Signature by SEAL 0326 Lawson
11/29/2025

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 0326 ENGINEER ALVIN D. LAWSON
Signature by SEAL 0326 Lawson
11/29/2025

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