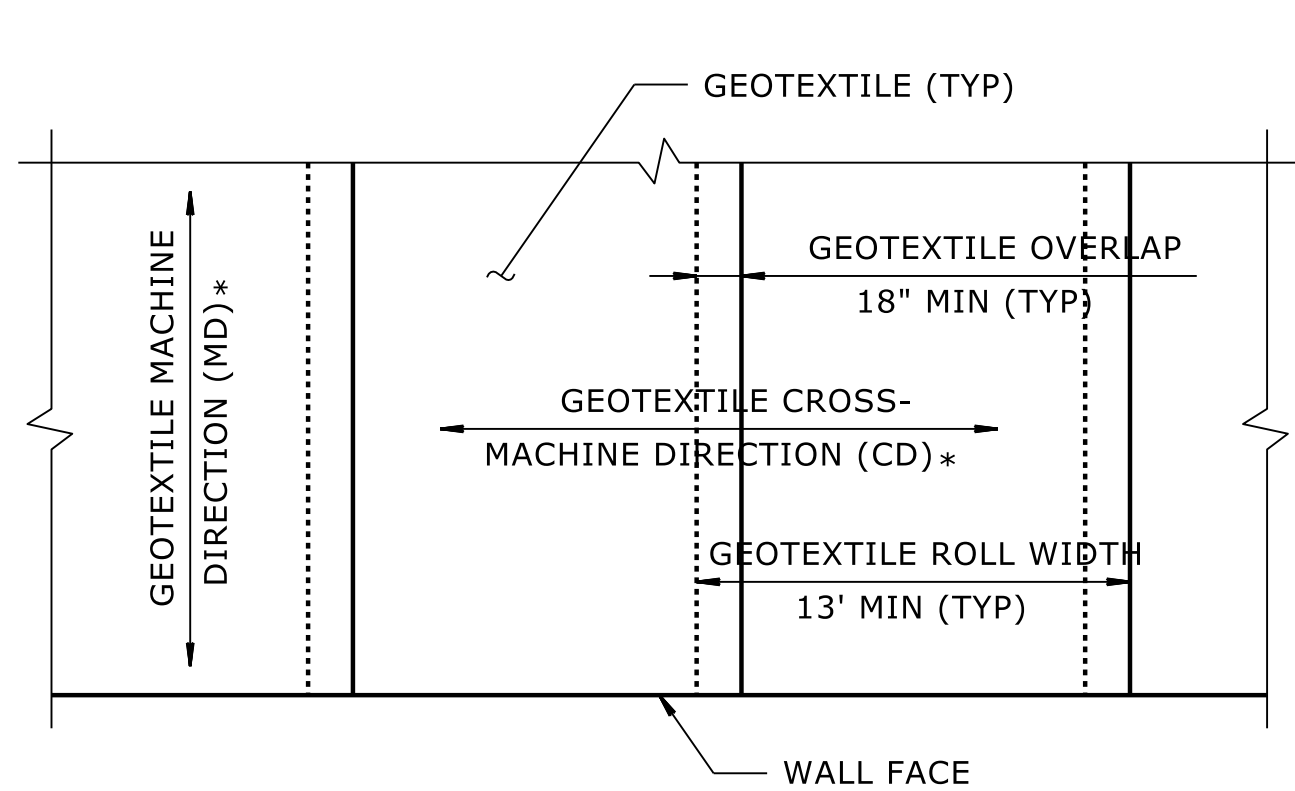
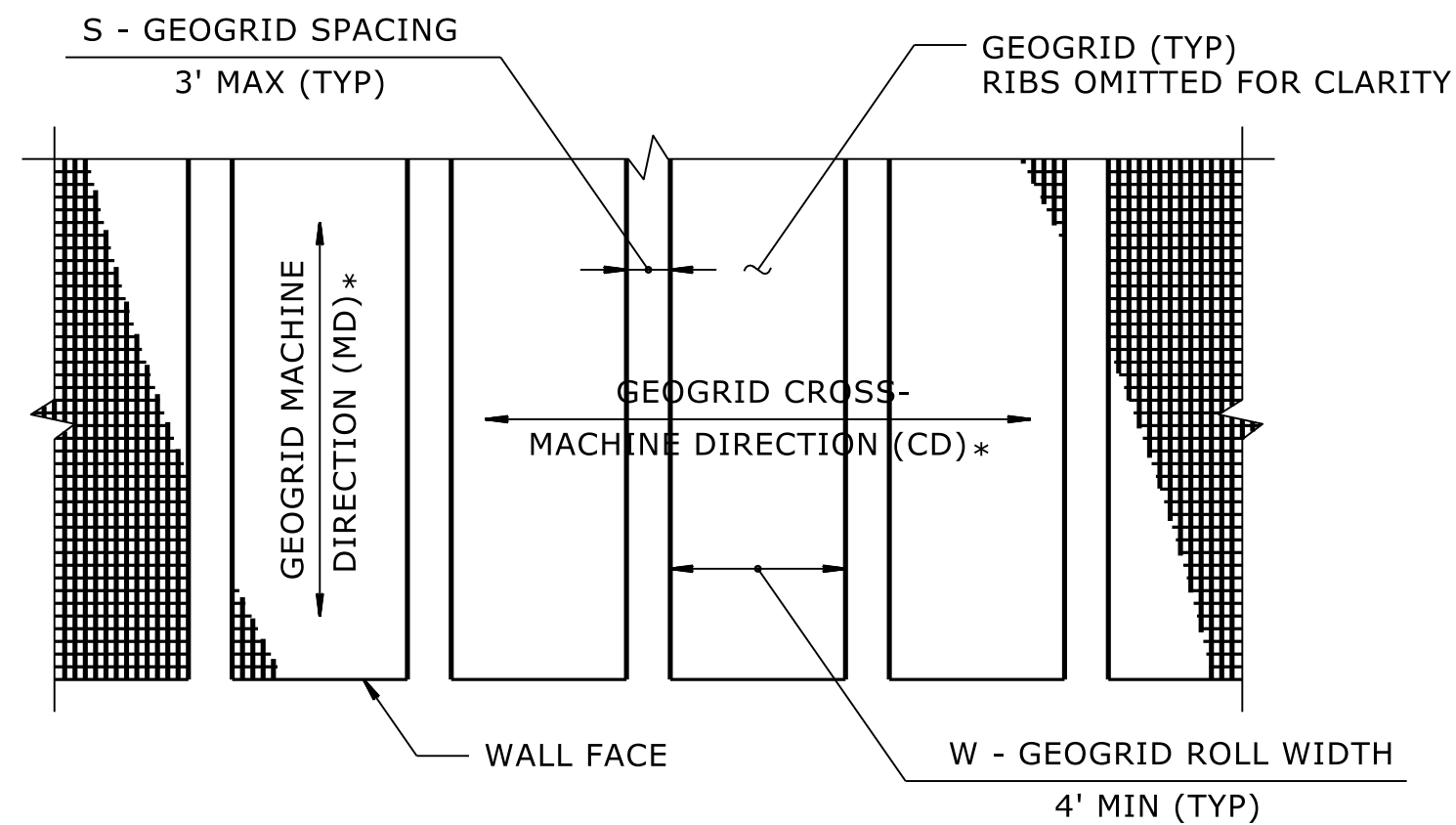




GEOTEXTILE PLACEMENT

(100% COVERAGE MIN FOR
GEOTEXTILE REINFORCEMENT)

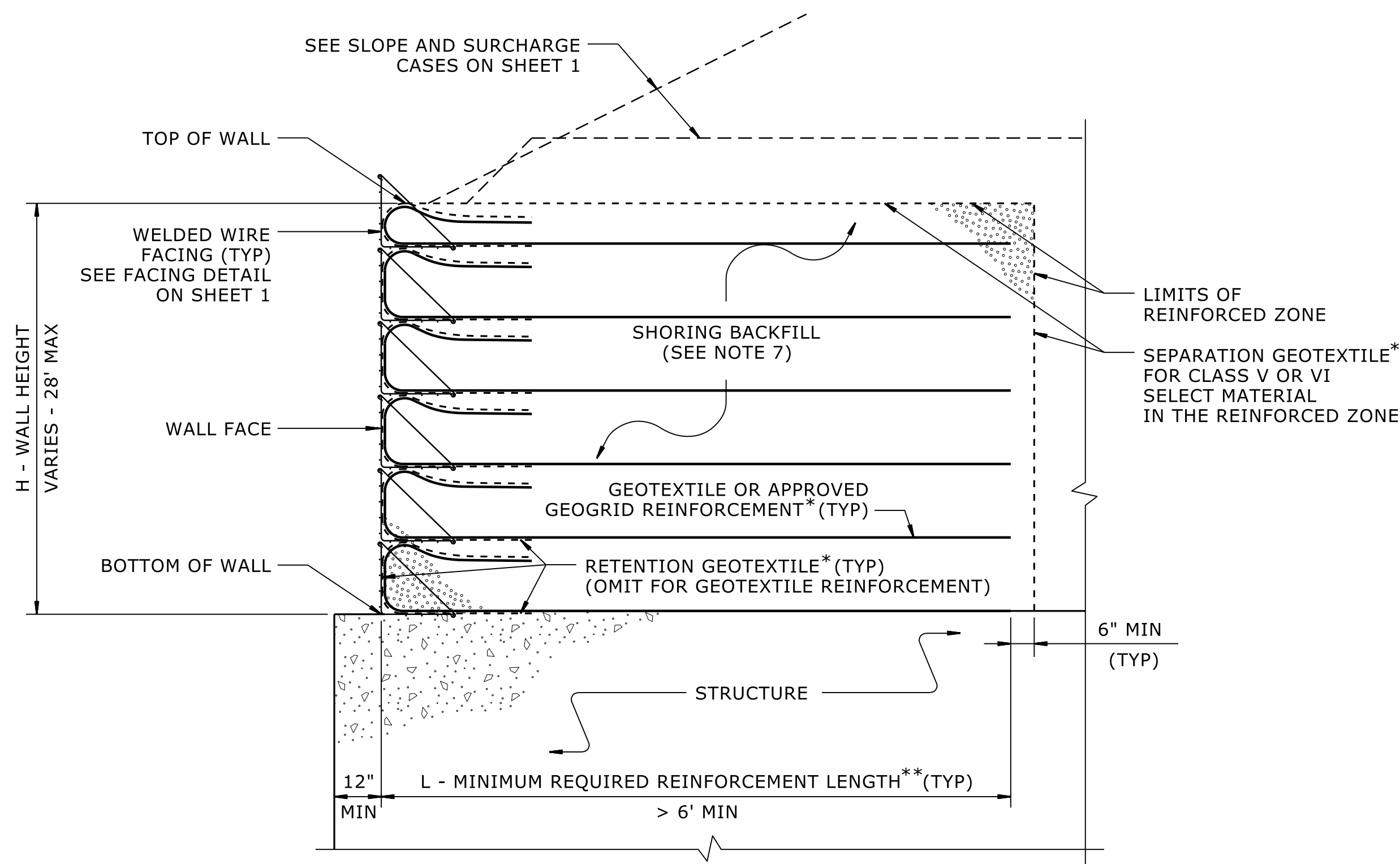


GEOGRID PLACEMENT

(80% COVERAGE MIN FOR
GEOGRID REINFORCEMENT -
 $\frac{W}{W+S} \times 100 \geq 80\%$,
SEE NOTE 11)

GEOSYNTHETIC PLACEMENT DETAILS

(PLAN VIEW)
*SEE NOTE 12.



TEMPORARY WALL ON STRUCTURE DETAIL

*SEE GEOSYNTHETIC PLACEMENT DETAILS.
**SEE REINFORCEMENT TABLES ON SHEET 3.

NOTES:

1. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALLS AS NOTED IN THE PLANS.
2. FOR STANDARD TEMPORARY WALLS, SEE STANDARD SHORING PROVISION.
3. STANDARD TEMPORARY WALLS ARE BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:
UNIT WEIGHT, $\gamma = 120$ PCF
FRICTION ANGLE, $\phi = 30$ DEGREES
COHESION, $c = 0$ PSF
4. DO NOT USE STANDARD TEMPORARY WALLS IF ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE.
5. DO NOT USE STANDARD TEMPORARY WALLS WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS BELOW TEMPORARY WALLS.
6. USE GROUNDWATER ELEVATION NOTED IN THE PLANS. IF NO GROUNDWATER ELEVATION IS SHOWN IN THE PLANS, ASSUME GROUNDWATER DEPTH IS LESS THAN 7' BELOW BOTTOM OF REINFORCED ZONE. DO NOT USE STANDARD TEMPORARY WALLS IF GROUNDWATER OR FLOOD ELEVATION IS ABOVE BOTTOM OF REINFORCED ZONE.
7. DO NOT USE A-2-4 SOIL FOR STANDARD TEMPORARY WALLS AROUND CULVERTS OR IN THE REINFORCED ZONE OF STANDARD TEMPORARY WALLS FOR SLOPE CASES. DO NOT USE CLASS VI SELECT MATERIAL IN THE REINFORCED ZONE OF STANDARD TEMPORARY WALLS WITH GEOTEXTILE REINFORCEMENT.
8. WALL EMBEDMENT IS NOT REQUIRED FOR STANDARD TEMPORARY WALLS ON STRUCTURES OR ROCK AS DETERMINED BY THE ENGINEER.
9. DO NOT USE MORE THAN 4 DIFFERENT REINFORCEMENT STRENGTHS FOR EACH STANDARD TEMPORARY WALL.
10. GEOGRIDS FOR GEOGRID REINFORCEMENT ARE APPROVED FOR SHORT TERM DESIGN STRENGTHS (3-YEAR DESIGN LIFE) IN THE MD AND CD BASED ON MATERIAL TYPE. THE LIST OF APPROVED GEOGRIDS WITH DESIGN STRENGTHS IS AVAILABLE FROM: connect.ncdot.gov/resources/Geological/Pages/Products.aspx. DEFINE MATERIAL TYPE FROM THE WEBSITE ABOVE FOR SHORING BACKFILL AS FOLLOWS:

MATERIAL TYPE	SHORING BACKFILL
BORROW	A-2-4 SOIL
FINE AGGREGATE	CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL
COARSE AGGREGATE	CLASS V OR VI SELECT MATERIAL

11. FOR GEOGRID REINFORCEMENT WITH LESS THAN 100% COVERAGE, STAGGER REINFORCEMENT SO GEOGRIDS ARE CENTERED OVER GAPS IN THE REINFORCEMENT LAYER BELOW.
12. AT THE CONTRACTOR'S OPTION, REINFORCEMENT MAY BE INSTALLED WITH THE MD PARALLEL TO THE WALL FACE IF BOTH OF THE FOLLOWING CONDITIONS OCCUR:
- W (REINFORCEMENT ROLL WIDTH) > (MINIMUM REQUIRED REINFORCEMENT LENGTH) + 4.5' AND
- REINFORCEMENT STRENGTH IN CD > MINIMUM REQUIRED REINFORCEMENT STRENGTH IN MD.
13. SUBMIT A "STANDARD TEMPORARY WALL SELECTION FORM" AT LEAST 7 DAYS BEFORE STARTING TEMPORARY WALL CONSTRUCTION. STANDARD SHORING SELECTION FORMS ARE AVAILABLE FROM: connect.ncdot.gov/resources/Geological/Pages/Geotech_Forms_Details.aspx
14. DO NOT PLACE SHORING BACKFILL OR REINFORCEMENT UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.
15. FOR STANDARD TEMPORARY WALLS WITH PILE FOUNDATIONS IN THE REINFORCED ZONE, DRIVE PILES THROUGH REINFORCEMENT AFTER CONSTRUCTING TEMPORARY WALLS.
16. DO NOT SPLICE OR OVERLAP REINFORCEMENT SO SEAMS ARE PARALLEL TO THE WALL FACE.
17. CONTACT THE ENGINEER WHEN EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, PAVEMENTS, PIPES, INLETS OR UTILITIES WILL INTERFERE WITH REINFORCEMENT.
18. FOR STANDARD TEMPORARY WALLS WITH INTERIOR ANGLES LESS THAN 90 DEGREES, WRAP GEOSYNTHETICS AT ACUTE CORNERS AS DIRECTED BY THE ENGINEER.
19. FOR STANDARD TEMPORARY WALLS WITH TOP OF WALL WITHIN 5' OF FINISHED GRADE, REMOVE TOP FACING AND INCORPORATE TOP REINFORCEMENT LAYER INTO FILL WHEN PLACING FILL IN FRONT OF WALL.

SLOPE OR SURCHARGE CASE	GROUNDWATER DEPTH BELOW BOTTOM OF REINFORCED ZONE (SEE NOTE 6 ON SHEET 2) (FT)	SHORING BACKFILL TYPE IN THE REINFORCED ZONE (SEE NOTE 7 ON SHEET 2)	H - WALL HEIGHT (FT)																											
			< 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
SLOPE CASE	> 0	CLASS II, TYPE 1, CLASS III, CLASS V OR CLASS VI SELECT MATERIAL	6	6	7	8	9	11	12	13	13	14	15	16	17	18	19	20	21	22	23	24	24	25	26	27	27			
SURCHARGE CASE	> 0 TO 7 FOR H < 20' > 0 TO 10 FOR H > 20'	ALL SHORING BACKFILL TYPES	6	7	7	8	8	9	9	10	11	11	12	12	13	14	14	15	16	17	17	18	19	19	20	21	22			
	> 7 FOR H < 20' > 10 FOR H > 20'	A-2-4 SOIL	6	6	7	8	8	9	9	10	11	11	12	12	13	14	14	15	16	16	17	18	18	19	20	20	21			
		CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL	6	6	7	7	8	8	9	10	10	11	11	12	12	13	14	15	15	16	16	17	17	18	18	19	20			
		CLASS V OR CLASS VI SELECT MATERIAL	6	6	7	7	7	8	8	9	9	10	10	11	12	13	13	14	14	15	15	16	17	17	18	19	19			

L - MINIMUM REQUIRED REINFORCEMENT LENGTH (FT)
(FOR ALL REINFORCEMENT TYPES)

WALL HEIGHT (H) + WALL EMBEDMENT (FT)	NUMBER OF REINFORCEMENT LAYERS*
2.5 - 4	3
4 - 5.5	4
5.5 - 7	5
7 - 8.5	6
8.5 - 10	7
10 - 11.5	8
11.5 - 13	9
13 - 14.5	10
14.5 - 16	11
16 - 17.5	12
17.5 - 19	13
19 - 20.5	14
20.5 - 22	15
22 - 23.5	16
23.5 - 25	17
25 - 26.5	18
26.5 - 28	19
28 - 29.5	20

*BASED ON VERTICAL REINFORCEMENT SPACING SHOWN ON SHEET 1.

REINFORCEMENT LAYER NUMBER *	SHORING BACKFILL TYPE IN THE REINFORCED ZONE (SEE NOTE 7 ON SHEET 2)				
	SLOPE CASE		SURCHARGE CASE		
	CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL	CLASS V SELECT MATERIAL	A-2-4 SOIL	CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL	CLASS V SELECT MATERIAL
1	2400	2400	2400	2400	2400
2	2400	2400	2400	2400	2400
3	2400	2400	2400	2400	2400
4	2400	2400	2500	2400	2400
5	2500	2400	3000	2400	2400
6	3000	2400	3500	2800	2400
7	3500	2700	4000	3200	2600
8	4000	3100	4500	3600	2900
9	4500	3500	5000	4000	3200
10	5000	3900	5500	4400	3500
11	5500	4300	6000	4800	3800
12	6000	4700	6500	5200	4100
13	6500	5100	7000	5600	4400
14	7000	5400	7500	6000	4700
15	7500	5800	8000	6400	5000
16	8000	6200	8500	6800	5300
17	8500	6600	9000	7200	5600
18	9000	7000	9500	7600	5900
19	9500	7400	10000	8000	6200
20	10000	7800	10500	8400	6500

GEOTEXTILE REINFORCEMENT
ULTIMATE TENSILE STRENGTH (LB/FT)

MINIMUM REQUIRED REINFORCEMENT STRENGTH IN MD

(SEE NOTE 9 ON SHEET 2.)
*SEE PARTIAL ELEVATION ON SHEET 1 FOR REINFORCEMENT LAYER NUMBERING.

REINFORCEMENT LAYER NUMBER *	SHORING BACKFILL TYPE IN THE REINFORCED ZONE (SEE NOTE 7 ON SHEET 2)				
	SLOPE CASE		SURCHARGE CASE		
	CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL	CLASS V OR CLASS VI SELECT MATERIAL	A-2-4 SOIL	CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL	CLASS V OR CLASS VI SELECT MATERIAL
1	240	200	340	290	240
2	380	310	520	430	350
3	530	420	700	570	460
4	690	550	870	720	570
5	860	690	1050	860	680
6	1030	830	1220	1000	790
7	1200	970	1400	1150	900
8	1370	1110	1580	1290	1010
9	1550	1240	1750	1430	1120
10	1720	1380	1930	1580	1230
11	1890	1520	2100	1720	1340
12	2060	1660	2280	1860	1450
13	2240	1800	2450	2010	1560
14	2410	1940	2630	2150	1670
15	2580	2080	2800	2290	1780
16	2750	2220	2980	2440	1890
17	2930	2360	3160	2580	2000
18	3100	2500	3330	2720	2110
19	3270	2640	3510	2860	2220
20	3440	2780	3690	3000	2330

GEOGRID REINFORCEMENT
SHORT-TERM DESIGN STRENGTH (LB/FT)

(SEE NOTE 10 ON SHEET 2.)

U-5760

2G-3

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NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION


GEOTECHNICAL
ENGINEERING UNIT

GEOTECHNICAL
ENGINEER

08/15/2025



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

STANDARD
DETAIL NO. 1801.02

GEOTECHNICAL STANDARD DETAIL FOR
TEMPORARY WALL (SHEET 3 OF 3)

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.

U-5760

SHEET NO.

3B-1

Kimley»Horn

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421 FAYETTEVILLE STREET, SUITE 600

RALEIGH, NC 27601

RIGHT-OF-WAY REV.

CONST. REV.

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT EXCAVATION	EMBANKMENT + 15%	BORROW	TOTAL WASTE
SECTION 1 (PHASE 0)					
-Y1- (LT/RT) 53+00.00 TO 75+00.00	1,630		101		1,529
SUBTOTAL	1,630		101		1,529
SECTION 2 (PHASE 0)					
-Y1- (LT/RT) 75+00.00 TO 97+22.00	1,482		70		1,412
SUBTOTAL	1,482		70		1,412
SECTION 3 (PHASE 1)					
-L- (LT/RT) 13+30.00 TO 26+55.01	9,305	600	305,327	296,022	600
-Y1- (RT) 51+00.00 TO 75+00.00	14,494		3,667		10,827
-Y1LPD- (LT/RT) 10+00.00 TO 15+75.27	93		80,689	80,596	
-Y1RPD- (LT/RT) 10+00.00 TO 22+53.88	34,824		20,862		13,962
SUBTOTAL	58,716	600	410,545	376,618	25,389
SECTION 4 (PHASE 1)					
-Y1- (RT) 75+00.00 TO 97+22.00	1,986		2,790	804	
SUBTOTAL	1,986		2,790	804	
SECTION 5 (PHASE 1)					
-Y1- (LT) 41+00.00 TO 75+00.00	9,201		12,474	3,273	
-Y1LPB- (LT/RT) 10+00.00 TO 16+99.41	39,855		26		39,829
-Y1RPB- (LT/RT) 10+00.00 TO 24+00.00	22,208		6,546		15,662
-L- (LT/RT) 28+19.51 TO 40+00.00	850	1,650	73,079	72,229	1,650
-Y2- (LT/RT) 11+22.00 TO 13+28.41	250		583	333	
-Y2- (LT/RT) 13+83.42 TO 17+40.00	955		253		702
SUBTOTAL	73,319	1,650	92,961	75,835	57,843
SECTION 6 (PHASE 1)					
-Y1- (LT) 75+00.00 TO 97+22.00	8,637		3,119		5,518
SUBTOTAL	8,637		3,119		5,518
SECTION 7 (PHASE 1)					
-L- (LT/RT) 40+00.00 TO 41+00.00	399		10		389
SUBTOTAL	399		10		389
SECTION 8 (PHASE 1)					
-L- (RT) 41+00.00 TO 46+50.00	2,040		380		1,661
-DRW1- (LT/RT) 10+29.50 TO 11+30.00	822				822
SUBTOTAL	2,862		380		2,483
SECTION 9 (PHASE 1)					
-L- (LT) 59+00.00 TO 61+50.00	105		1,057	952	
SUBTOTAL	105		1,057	952	
SECTION 10 (PHASE 1)					
-Y4- (RT) 12+00.00 TO 18+03.16	1,180		144		1,036
SUBTOTAL	1,180		144		1,036
SECTION 11 (PHASE 1)					
-L- (LT) 61+50.00 TO 86+00.00	2,066		4,648	2,582	
-DRW2- (LT/RT) 10+20.00 TO 10+70.50			51	51	
SUBTOTAL	2,066		4,699	2,633	
SECTION 12 (PHASE 1)					
-Y7- (LT/RT) 12+50.00 TO 13+66.27	34		63	29	
SUBTOTAL	34		63	29	

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT EXCAVATION	EMBANKMENT + 15%	BORROW	TOTAL WASTE
SECTION 13 (PHASE 1)					
-L- (LT) 86+00.00 TO 91+00.00	191		1,547	1,356	
SUBTOTAL	191		1,547	1,356	
SECTION 14 (PHASE 1)					
-L- (LT) 91+00.00 TO 96+50.00	158		5,172	5,014	
SUBTOTAL	158		5,172	5,014	
SECTION 15 (PHASE 1)					
-L- (RT) 96+50.00 TO 120+71.00	1,179		8,681	7,502	
-Y8- (LT/RT) 14+03.52 TO 16+50.00	9		1,017	1,008	
SUBTOTAL	1,188		9,698	8,510	
SECTION 16 (PHASE 2)					
-L- (LT) 41+00.00 TO 46+00.00	1,101		1,456	355	
-L- (LT/RT) 46+00.00 TO 59+00.00	12,291		7,799		4,492
-L- (RT) 59+00.00 TO 61+50.00	76		484	408	
-Y3- (LT/RT) 10+50.00 TO 14+78.61	104		2,913	2,809	
-Y3- (LT/RT) 15+33.63 TO 17+50.00	15		1,329	1,314	
SUBTOTAL	13,587		13,982	4,886	4,492
SECTION 17 (PHASE 2)					
-Y4- (LT) 12+00.00 TO 17+50.00	177		56		121
SUBTOTAL	177		56		121
SECTION 18 (PHASE 2)					
-Y4- (LT/RT) 19+04.18 TO 24+55.00	200		691	491	
SUBTOTAL	200		691	491	
SECTION 19 (PHASE 2)					
-DRW3- (LT/RT) 10+31.43 TO 10+67.00	3		70	67	
-DRW4- (LT/RT) 10+30.72 TO 10+80.00	4		109	105	
SUBTOTAL	7		179	172	
SECTION 20 (PHASE 2)					
-L- (RT) 61+50.00 TO 86+00.00	591		4,474	3,883	
SUBTOTAL	591		4,474	3,883	
SECTION 21 (PHASE 2)					
-Y7- (LT/RT) 14+47.04 TO 16+70.00	98		353	255	
SUBTOTAL	98		353	255	
SECTION 22 (PHASE 2)					
-L- (RT) 86+00.00 TO 91+00.00	679		1,628	949	
SUBTOTAL	679		1,628	949	
SECTION 23 (PHASE 2)					
-L- (RT) 91+00.00 TO 96+50.00	538		2,045	1,507	
SUBTOTAL	538		2,045	1,507	

NOTE: EARTHWORK QUANTITES ARE CALCULATED BY THE ROADWAY DESIGNER. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

REVISIONS

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT EXCAVATION	EMBANKMENT + 15%	BORROW	TOTAL WASTE
SECTION 24 (PHASE 2)					
-L- (LT) 96+50.00 TO 120+71.00	631		7,458	6,827	
-DRWS- (LT/RT) 10+20.00 TO 10+58.50	25		6		19
SUBTOTAL	656		7,464	6,827	19
SECTION 25 (PHASE 2)					
-Y8- (LT/RT) 11+75.00 TO 13+27.52	14		113	99	
SUBTOTAL	14		113	99	
SECTION 26 (PHASE 3)					
-L- (MED) 40+00.00 TO 46+00.00	108		190	82	
SUBTOTAL	108		190	82	
SECTION 27 (PHASE 3)					
-L- (MED) 64+50.00 TO 81+00.00	206		642	436	
SUBTOTAL	206		642	436	
SECTION 28 (PHASE 3)					
-L- (MED) 91+50.00 TO 102+00.00	101		368	267	
SUBTOTAL	101		368	267	
SECTION 29 (PHASE 3)					
-L- (MED) 112+50.00 TO 117+50.00	59		196	137	
SUBTOTAL	59		196	137	
TOTAL	171,079	2,250	565,793	492,694	100,231
MATERIAL FOR SHOULDER CONSTRUCTION			2,875	2,875	
LOSS DUE TO CLEARING & GRUBBING	-4,500			4,500	
ADDITIONAL UNDERCUT FROM GEOTECH RECS		1,000	1,150	1,150	1,000
SELECT GRANULAR MATERIAL IN LIEU OF BORROW			-3,737	-3,737	
WASTE IN LIEU OF BORROW				-94,690	-94,690
GRADE POINT EXCAVATION		1,800			
UNSUITABLE MATERIAL					
PROJECT TOTAL	166,579	5,050	566,081	402,792	6,541
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				20,140	
GRAND TOTAL	166,579	5,050	566,081	422,932	6,541
SAY	166,600	5,100		423,000	
EST. DDE= 820 CUBIC YARDS					
EST. SHALLOW UNDERCUT= 750 CUBIC YARDS					
CLASS IV SUBGRADE STABILIZATION= 1,500 TONS					
*ACCEPTABLE UNCLASSIFIED EXCAVATION NOT TO BE USED IN TOP 3FT OF EMBANKMENT OR BACKFILL= 8,950 CUBIC YARDS					
*-L- STA 40+00 TO 43+75 (LT/RT), -Y1- STA 96+25 TO 97+00 (RT), -Y1LPB- STA 14+50 TO 16+00 (LT/RT), -Y1RPD- STA 18+50 TO 19+75 (LT/RT)					
*-Y1RPD- STA 19+75 TO 21+25 (LT)					

PROJECT REFERENCE NO.

U-5760

SHEET NO.

3B-2

Kimley»Horn

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421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.

CONST. REV.

NOTE: EARTHWORK QUANTITES ARE CALCULATED BY THE ROADWAY DESIGNER. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

COMPUTED BY: OIN DATE: 8/27/2025

CHECKED BY: EJJ DATE:

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

GUARDRAIL SUMMARY

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL

G = GATING IMPACT
ATTENUATOR TL-3 or TL-2
NG = NON-GATING IMPACT
ATTENUATOR TL-3 or TL-2

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH (L.F.)				WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH (L.F.)		W		ANCHORS										IMPACT ATTENUATOR		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL (L.F.)			TERMINAL END SECTION (EA.)	REMARKS
				STRAIGHT 6 FT. POSTS	STRAIGHT 8 FT. POSTS	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	Type III	B-77	GREU, TL-3	GREU, TL-2	CAT-1	AT-1	Type III SC	B-77 SC	IA-MASH TL-3	G	NG	REMOVE EXISTING GUARDRAIL		REMOVE & RESET EXISTING GUARDRAIL				
-L-	14+23	26+55	LT	1256		50		26+55	15+00							1																	
-L-	14+23	14+67	LT													1		1										66					
-L-	23+83	26+55	RT	260				26+55				50		1		1		1															
-L-	28+20	31+38	LT	319				28+20				50		1		1																	
-L-	28+20	31+21	RT	301				28+20	31+00				6.25		1	1				1													
-L-	51+69	53+68	LT	161		71		53+23	52+00			6.25	6.25							1		1											
-L-	89+13	91+65	RT	257				90+65	91+13			50	6.25						1														
-L-	90+23	92+94	LT	270				91+19	90+77			50	6.25	1					1														
-L-	93+19	97+13	LT	380		41		97+00	93+25			6.25	6.25						1		1												
-L-	96+50	100+32	RT	367				98+00	100+10			50	6.25	1					1														
-Y1-	41+24	45+95	LT	475				42+85		14	14	50		1					1														
-Y1-	51+41	56+55	RT	310				54+50		14	14	50		1					1														
-Y1-	53+35	56+34	LT		171					6	6		15		1				1							203							
-Y1-	53+35	56+34	RT		171					6	6		15		1				1							129					8 FT GUARDRAIL POSTS		
-Y1-	53+35	90+85	RT																							129							
-Y1-	53+35	97+22	LT																									3750					
-Y1-	53+35	61+40	RT																									4388					
-Y1-	54+12	56+80	LT	54				54+70	54+17				6.25																				
-Y1-	56+39	97+22	LT		4089					6	6		15		1				1							213							
-Y1-	56+39	90+85	RT		3451					6	6		15		1				1												8 FT GUARDRAIL POSTS		
-Y1-	56+55	56+96	RT	42				56+51	56+82				6.25						1														
-Y1-	56+80	64+33	LT	755				62+75	56+76	12	12	50		1				1	1														
-Y1-	57+82	68+85	LT																														
-Y1-	65+15	67+67	RT																														
-Y1-	75+38	81+06	RT	569				77+50	81+50			50	6.25	1					1		1										1106		
-Y1-	76+95	82+97	RT																												256		
-Y1-	79+69	81+88	LT	219				80+00		12	12	50	6.25	1					1		1										603		
-Y1-	88+68	90+85	RT	218				90+80		14	14	50		1					1														
-Y1-	89+90	90+85	RT																												95		
-Y1-	90+39	95+87	LT																												554		
-Y1-	90+81	95+12	LT	434				94+00	91+00	14	14	50	6.25	1					1		1										126		
-Y1-	94+63	95+87	LT																														
			SUBTOTAL	6644	7882	162										4	8	12		11	2						674	11749					
	LESS ANCHOR DEDUCTIONS																																
	Type III	4 @ 18.75'	=	75.00																													
	B-77	8 @ 22.875'	=	91.50	91.50																												
	GREU, TL-3	12 @ 50'	=	600.00																													
	CAT-1	11 @ 6.25'	=	68.75																													
	AT-1	2 @ 6.25'	=	12.50																													
			TOTAL	5796	7790	162																											
			SAY	5800	7800	175										4	8	12		11	2						680	11750					

ADDITIONAL GUARDRAIL POSTS = 25 EA

TEMPORARY GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH (L.F.) STRAIGHT 6 FT. POSTS
-Y1-	53+85	58+50	LT	465
-Y1-	53+85	58+50	RT	465
-Y1-	62+50	76+00	LT	1350
-Y1-	62+50	76+00	RT	1350
-Y1-	80+05	83+50	LT	345
-Y1-	80+05	83+50	RT	345
-Y1-	89+50	95+80	LT	630
			TOTAL	4950
			SAY	5000

REVISIONS

8/28/2025

COMPUTED BY:	JAR	DATE:	06/12/2025
CHECKED BY:	KLF	DATE:	06/13/2025

**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	OFFSET		STRUCTURE NUMBER		Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC)										C. S. PIPE				R. C. PIPE CLASS IV								QUANTITIES FOR DRAINAGE STRUCTURES						FRAME, GRATES, AND HOOD			CONCRETE TRANSITIONAL SECTION		ABBREVIATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			SIZE	THICKNESS OR GAUGE	FROM	TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	% MINIMUM REQUIRED SLOPE	12	15	18	24	30	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	.064	.064	.064	.064	12	15	18	24	30	36	42	48	20" WELDED STEEL PIPE 0.25" THICK SOIL, 50% NOT IN SOIL	24" WELDED STEEL PIPE 0.25" THICK SOIL, 50% NOT IN SOIL	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	C.Y.	C.Y.	C.Y.	MASONRY	0" THRU 5'	5" THRU 10'	10' AND ABOVE	EACH	LIN. FT.	LIN. FT.	E	F	G	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 C.B. 840D04 (SEE SHEET 2C-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 W/2 GRATES STD.840.20	G.D.I.(W.S. SAG)FRAME W/ 2 GRATES STD.840.22	G.D.I.(N.S. SAG) FRAME W/ 2 GRATES STD.840.24	G.D.I.(N.S. FLAT)FRAME W/ 2 GRATES STD.840.29	J.B. STD. 840.31 OR STD. 840.32	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	M.H. FRAME AND COVER STD. 840.54	CONVERT EXIST C.B. TO J.B. (SEE SHEET 2C-12)	CONVERT EXIST C.B. TO D.I. (SEE SHEET 2C-12)	CONVERT EXIST D.I. TO J.B. (SEE SHEET 2C-12)	CONVERT EXIST J.B. TO D.I. (SEE SHEET 2C-12)	ADJUST C.B.	ADJUST D.I.	ADJUST M.H.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	C.Y FLOWABLE FILL	C.Y CONCRETE COLLARS CL. "B" STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	THICKNESS OR GAUGE	FROM	TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	% MINIMUM REQUIRED SLOPE	12	15	18	24	30	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	.064	.064	.064	.064	12	15	18	24	30	36	42	48	20" WELDED STEEL PIPE 0.25" THICK SOIL, 50% NOT IN SOIL	24" WELDED STEEL PIPE 0.25" THICK SOIL, 50% NOT IN SOIL	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	C.Y.	C.Y.	C.Y.	MASONRY	0" THRU 5'	5" THRU 10'	10' AND ABOVE	EACH	LIN. FT.	LIN. FT.	E	F	G	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 C.B. 840D04 (SEE SHEET 2C-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 W/2 GRATES STD.840.20	G.D.I.(W.S. SAG)FRAME W/ 2 GRATES STD.840.22	G.D.I.(N.S. SAG) FRAME W/ 2 GRATES STD.840.24	G.D.I.(N.S. FLAT)FRAME W/ 2 GRATES STD.840.29	J.B. STD. 840.31 OR STD. 840.32	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	M.H. FRAME AND COVER STD. 840.54	CONVERT EXIST C.B. TO J.B. (SEE SHEET 2C-12)	CONVERT EXIST C.B. TO D.I. (SEE SHEET 2C-12)	CONVERT EXIST D.I. TO J.B. (SEE SHEET 2C-12)	CONVERT EXIST J.B. TO D.I. (SEE SHEET 2C-12)	ADJUST C.B.	ADJUST D.I.	ADJUST M.H.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	C.Y FLOWABLE FILL	C.Y CONCRETE COLLARS CL. "B" STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
THICKNESS OR GAUGE	FROM	TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	% MINIMUM REQUIRED SLOPE	12	15	18	24	30	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	.064	.064	.064	.064	12	15	18	24	30	36	42	48	20" WELDED STEEL PIPE 0.25" THICK SOIL, 50% NOT IN SOIL	24" WELDED STEEL PIPE 0.25" THICK SOIL, 50% NOT IN SOIL	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	C.Y.	C.Y.	C.Y.	MASONRY	0" THRU 5'	5" THRU 10'	10' AND ABOVE	EACH	LIN. FT.	LIN. FT.	E	F	G	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 C.B. 840D04 (SEE SHEET 2C-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 W/2 GRATES STD.840.20	G.D.I.(W.S. SAG)FRAME W/ 2 GRATES STD.840.22	G.D.I.(N.S. SAG) FRAME W/ 2 GRATES STD.840.24	G.D.I.(N.S. FLAT)FRAME W/ 2 GRATES STD.840.29	J.B. STD. 840.31 OR STD. 840.32	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	M.H. FRAME AND COVER STD. 840.54	CONVERT EXIST C.B. TO J.B. (SEE SHEET 2C-12)	CONVERT EXIST C.B. TO D.I. (SEE SHEET 2C-12)	CONVERT EXIST D.I. TO J.B. (SEE SHEET 2C-12)	CONVERT EXIST J.B. TO D.I. (SEE SHEET 2C-12)	ADJUST C.B.	ADJUST D.I.	ADJUST M.H.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	C.Y FLOWABLE FILL	C.Y CONCRETE COLLARS CL. "B" STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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COMPUTED BY:	JAR	DATE:	06/12/2025
CHECKED BY:	KLF	DATE:	06/13/2025

**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)

[illegible]

[illegible]

COMPUTED BY:	JAR	DATE:	06/12/2025
CHECKED BY:	KLF	DATE:	06/13/2025

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

PROJECT NO.	SHEET NO.
U-5760	3D-9

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)

[illegible]

COMPUTED BY:	JAR	DATE:	06/12/2025
CHECKED BY:	KLF	DATE:	06/13/2025

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

PROJECT NO.	SHEET NO.
U-5760	3D-10

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)

[illegible]

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
L	18+75	19+25	RT	SD	75
L	88+00	90+00	LT	SD	225
L	112+00	114+00	LT	SD	225
Y1	46+50	47+50	LT	SD	125
Y1RPB	13+00	17+00	LT&RT	SD	825
Y7	15+50	16+50	RT	SD	125
CONTINGENCY				SD	500
				TOTAL LF:	2100

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

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/ AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
L	118+00	120+50	ASU(1)	12	350	700	1050		
Y4	14+50	16+50	ASU(1)	12	200	400	600		
CONTINGENCY					200	400	600		
			TOTAL CY/TONS/SY:		750	1500**	2250**	0	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
*AST = Aggregate Stabilization
**Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

SUMMARY OF BRIDGE WAITING PERIODS

Bridge Description	End Bent/ Bent No.	MONTHS
Bridge No. 751 Forsyth County	1	2
Bridge No. 751 Forsyth County	2	2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME	DEED BOOK
1	4	LOWE'S HOME CENTERS, INC #1141	DB 2123 PG 3174 DB 2123 PG 3176 DB 2123 PG 3177 DB 2123 PG 3179 PB 43 PG 128
1A	4,5	FAB DEVELOPMENT COMPANY, INC.	DB 1974 PG 1091 DB 1974 PG 1095 DB 2126 PG 4050 PB 42 PG 72
2	4,5	VP JACKSONVILLE, LLC	DB 3584 PG 1025 PB 44 PG 32-35
3	4,5	NCDOT	DB 3793 PG 1927
4	5	NCDOT	DB 3772 PG 2328
5	5,6	NCDOT	DB 3772 PG 2334
6	5	NCDOT	DB 3747 PG 1172
7	5,6	THOMAS W. PRINCE & ARNOLD G. KING	DB 2056 PG 1310 PB 44 PG 134
8	6	NCDOT	DB 3405 PG 3903
9	6	FRANK HOLBROOK & BRENDA W. HOLBROOK	SDB 2351 PG 3391 PB 44 PG 134
10	6	GARY T. DAVIS & DOROTHY R. DAVIS	DB 2347 PG 2760 PB 44 PG 134
11	6	MALWINDER SINGH GHUMMAN & RANVIR K. GHUMMAN	DB 3603 PG 4334 DB 3270 PG 2528 PB 14 PG 11
12	6	SHAMINDER SINGH & ANUREET K. GHUMMAN	DB 3759 PG 1670
13	6	B&T QTIP TRUST	DB 3556 PG 136
14	6	GARY T. DAVIS & DOROTHY R. DAVIS	DB 2332 PG 400
15	6,7	NCDOT	DB 3746 PG 4381 PB 33 PG 21
16	6	SHAMINDER SINGH & ANUREET K. GHUMMAN	DB 3792 PG 1731
17	6,7	BRUCE W. BARNARD & JOAN W. BARNARD	DB 1039 PG 599
18	7	JOSEPH W. ELLENDER, III	DB 2830 PG 2839 PB 32 PG 35
19	7	DANIEL SPANU & NAOMI SPANU	DB 3618 PG 1338 PB 32 PG 35
20	7	DAVID A. CASANEGA & JENNIFER CASANEGA	DB 1797 PG 3740 PB 32 PG 35
21	7	THOMAS GAUDIO SO & JESSICA GUADIO SO	DB 3671 PG 43 PB 32 PG 35
22	7	DOUGLAS A. BROWN	DB 3283 PG 2123 PB 32 PG 35
23	7	JAMES E. WILSON & DONNA C. WILSON	DB 2237 PG 12 PB 32 PG 35
24	7	SHERRY D. ENNIS	DB 3591 PG 3113 PB 32 PG 35
25	7	TYLER SHANE JOHNSTON & AMBER LEONARD HOHNSTON	DB 3775 PG 2961 PB 32 PG 35
26	7	PHILLIP E. BAUGUESS & PAULA R. BAUGUESS	DB 3008 PG 4260 PB 41 PG 100
27	7,8	RAYMOND D. THOMAS & PATRICIA T. THOMAS	DB 1661 PG 503
28	7	NCDOT	DB 3729 PG 49 PB 41 PG 100
29	7,8,16	DAVID A. GRIX & MELODY K. GRIX	DB 2729 PG 3569 PB 41 PG 100
30	8	MEDFORD CONSTRUCTION COMPANY., INC	DB 2375 PG 3372
31	8	TIMOTHY R. SMITH & ANITA R. SMITH	DB 2099 PG 3205 PB 30 PG 133
32	8	CALVIN C. HARRIS & SANDRA BLUE HARRIS	DB 1974 PG 1786 PB 30 PG 133
32A	8	MARIA DAIL MURPHY	DB 3614 PG 20 PB 30 PG 133
33	8	CHRISTOPHER T. BROOKS & LESLIE C. BROOKS	DB 3298 PG 39 PB 46 PG 153 PB 47 PG 58

PARCEL No.	SHEET No.	PROPERTY OWNER NAME	DEED BOOK
34	8	CHRISTOPHER T. BROOKS & LESLIE C. BROOKS	DB 3261 PG 1876 PB 46 PG 153 PB 47 PG 58
35	8	SHAWAN GABRIEL & KEISHA GABRIEL	DB 3307 PG 70 PB 30 PG 133
36	8	DEREK J. LIGHT & REBECCA L. LIGHT	DB 3042 PG 434 PB 30 PG 133
37	8	JOSEPH B. FLETCHER & TAMMY W. FLETCHER, TRUSTEES OF THE F4FAM REVOCABLE LIVING TRUST	DB 3720 PG 2405 PB 46 PG 153 PB 47 PG 58
38	8	GEORGE D. PALOUMBAS & MELISSA I. PALOUMBAS	DB 2810 PG 3757 PB 46 PG 153 PB 47 PG 58
39	8	JIMMIE C. MICKEY, JR. & SUSAN H. MICKEY	DB 1967 PG 315 PB 28 PG 80
40	8,9	W. AVALON POTTS	DB 1969 PG 949 DB 1838 PG 3536 PB 37 PG 150
42	8,9	ANDREW CONEY & BECKY CONEY	DB 2603 PG 1157 DB 1838 PG 3536 PB 37 PG 150
42	8,9	ANDREW CONEY & BECKY CONEY	DB 2603 PG 1157 DB 1838 PG 3536 PB 37 PG 150
43	9	JOSE V. PAREDES	DB 3444 PG 2702
44	9	SHAWN COFER & COURTNEY COFER	DB 3630 PG 1141
45	9	JEWAUN WITHERSPOON	DB 3652 PG 3534
46	9	EDMON D. GARMON & LESLEY GARMON	DB 3435 PG 3582
47	9	NICHOLAS J. CARLUCCI	DB 3185 PG 4294 PB 24 PG 149
48	9	JAMES K. DEAN & MARY LOU DEAN	DB 1774 PG 2465
49	9	DONNA J. MCKOY	DB 3018 PG 3057 PB 24 PG 149
50	9	STEPHEN M. PEDDYCORD & MELODY M. PEDDYCORD	DB 3294 PG 1795
51	9	CYNTHIA COULOMBE & ROBERT COULOMBE	DB 3343 PG 2309 PB 24 PG 149
52	9,10	DANIEL GOLDNER	DB 2873 PG 2474
53	9,10	J. CORTES HOMES, LLC	DB 3787 PG 1702 PB 24 PG 149
54	10	TOWN OF KERNERSVILLE	DB 3391 PG 3427
55	10	GEORGE A. DEBIDART III	DB 3416 PG 72
56	10	CAROLINA TELEPHONE & TELEGRAPH	DB 1649 PG 4084
57	10	DONNIE LEE SWAIM & BERNICE BROWN SWAIM	DB 883 PG 379 DB 887 PG 197 DB 1010 PG 715 PB 61 PG 145-146
58	10	FAMILY M VENTURES, LLC	DB 2716 PG 2561 DB 1976 PG 2695
59	10	TONI N. PICCOLO & FRANK B. PICCOLO	DB 3271 PG 4286
60	10	SCOTT K. SWAIM	DB 1916 PG 3664
61	10	MARK J. SANTUCCI	DB 2940 PG 591
62	10	JOHN C. LOVE, CAREN L. BULLOCK & HOWARD C. BULLOCK	DB 2411 PG 3317
63	10,11	GARY M. SPRING & DEBBIE T. SPRING LIVING TRUST	DB 3205 PG 4023
64	10,11	ERIC A. MCFARLIN & SHAWN R. MCFARLIN	DB 2712 PG 174 PB 39 PG 42
65	11	SANDRA M. GONZALEZ	DB 3455 PG 2983
66	11	JASON D. SMITH & REGINA V. SMITH	DB 2481 PG 2119 PB 39 PG 42
67	11	CHRISTOPHER B. ELLINGSON & ELIZABETH S. ELLINGSON	DB 3201 PG 1606 PB 39 PG 42

PROJ. REFERENCE NO.	SHEET NO.
U-5760	3P-2

PARCEL No.	SHEET No.	PROPERTY OWNER NAME	DEED BOOK
68	11	BRUCE A. WALL & DEBBIE E. WALL	DB 1835 PG 2313 DB 2625 PG 2351
69	11	BARRY D. COLLINS & LINDA S. COLLINS	DB 1964 PG 821 PB 39 PG 42
70	11	DUSTIN CLINT TUCKER & SARAH STARRETTE TUCKER	DB 3771 PG 423
71	11	AKHTAR H. KHAN & SHANDANA H. KHAN	DB 3798 PG 2788 PB 39 PG 43
72	11	DARREN SAMS & CRYSTAL SAMS	DB 3574 PG 2304
73	11	STEPHEN S. FULLER & DEIDRA E. FULLER	DB 3246 PG 3119 PB 39 PG 43
74	11	TIMOTHY C. MARTIN & MICHELLE A. MARTIN	DB 2669 PG 2554 PB 41 PG 52
75	11	JOHNNY R. STAMEY & PAMELA D. STAMEY	DB 3731 PG 4352 PB 39 PG 43
76	11	BRIAN D. LOCKHART & TAMMY G. LOCKHART	DB 3312 PG 1772 PB 23 PG 45
77	11	TUNNIE M. SHEPHERD & LORI J. SHEPHERD	DB 3389 PG 2084 PB 39 PG 43
78	11	STEPHEN & SHARON COYTE	DB 3498 PG 4022 PB 39 PG 43
79	11	HOWARD P. ELLIS & JO LISA ELLIS	DB 2226 PG 4477 PB 23 PG 45
80	11	RS RENTAL III A LLC	DB 3726 PG 754 PB 23 PG 45
81	11	WILFORD A. SORRELL & SANDRA SORRELL	DB 3200 PG 425 DB 39 PG 43
82	11	BRYAN & CHRISTIE BARNES	DB 3717 PG 3304 PB 23 PG 45
83	11	SUE INGRAM REVOCABLE TRUST OF 2000	DB 3438 PG 940 PB 39 PG 43
84	11	ANNIE K. MCHONE	DB 3087 PG 4132 PB 39 PG 43
86	11,13	KARLIE STREET	DB 3562 PG 2650 PB 23 PG 45
87,87Z	12	WILLIAM M. AVANT, III & MARY L. AVANT	DB 1916 PG 1805 PB 23 PG 45
88	12	DOROTHY L. HERRINGTON HAZEL MESSER HALL	DB 3572 PG 636 PB 23 PG 45
89,89Z	12	PARKS PROPERTY INVESTMENTS, LLC	DB 2768 PG 1037 PB 36 PG 191
90	12	ALONZO J. RUCKER, SR.	DB 3276 PG 742 PB 23 PG 45
91	12	WALKERTOWN FIRE DEPART., INCOPORATED, A NC NON-PROFIT CORP.	DB 3427 PG 2753
92	12	BOULOS INVESTMENTS, LLC	DB 3742 PG 2520
93	12	BAKERFIELD PROPERTIES GROUP, LLC KRISHNA KESHAV KURLUVADI CHILDRENS TRUST & KURUVADI,	DB 3626 PG 2565
94	5,13	WHITE WALNUT, LLC	DB 3054 PG 1059 DB 3078 PG 373
96	5	HARVEY G. MCINTYRE & DONNA E. MCINTYRE	DB 3452 PG 1332
97	5	KEION K. SAMUEL	DB 3332 PG 150 PB 44 PG 134
98	5	NCDOT	DB 3729 PG 2218 PB 44 PG 134
99	5,6	RICHARD M. MARTIN, II	DB 3049 PG 74
100	5	TOWN OF KERNERSVILLE	DB 2207 PG 106 PB 42 PG 86-89 PB 44 PG 32-35
101	5	TRIAD COMMERCIAL CORPORATION	DB 1019 PG 193
102	5,14	WAL-MART REAL ESTATE BUSINESS TRUST	DB 2106 PG 244 PB 42 PG 86-89 PB 44 PG 32-35

[illegible]

5/14/99

REVISIONS

6/26/2025

Kimley»Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.

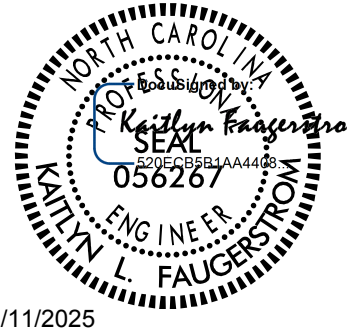
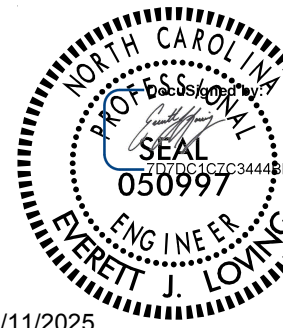
U-5760

SHEET NO.

4

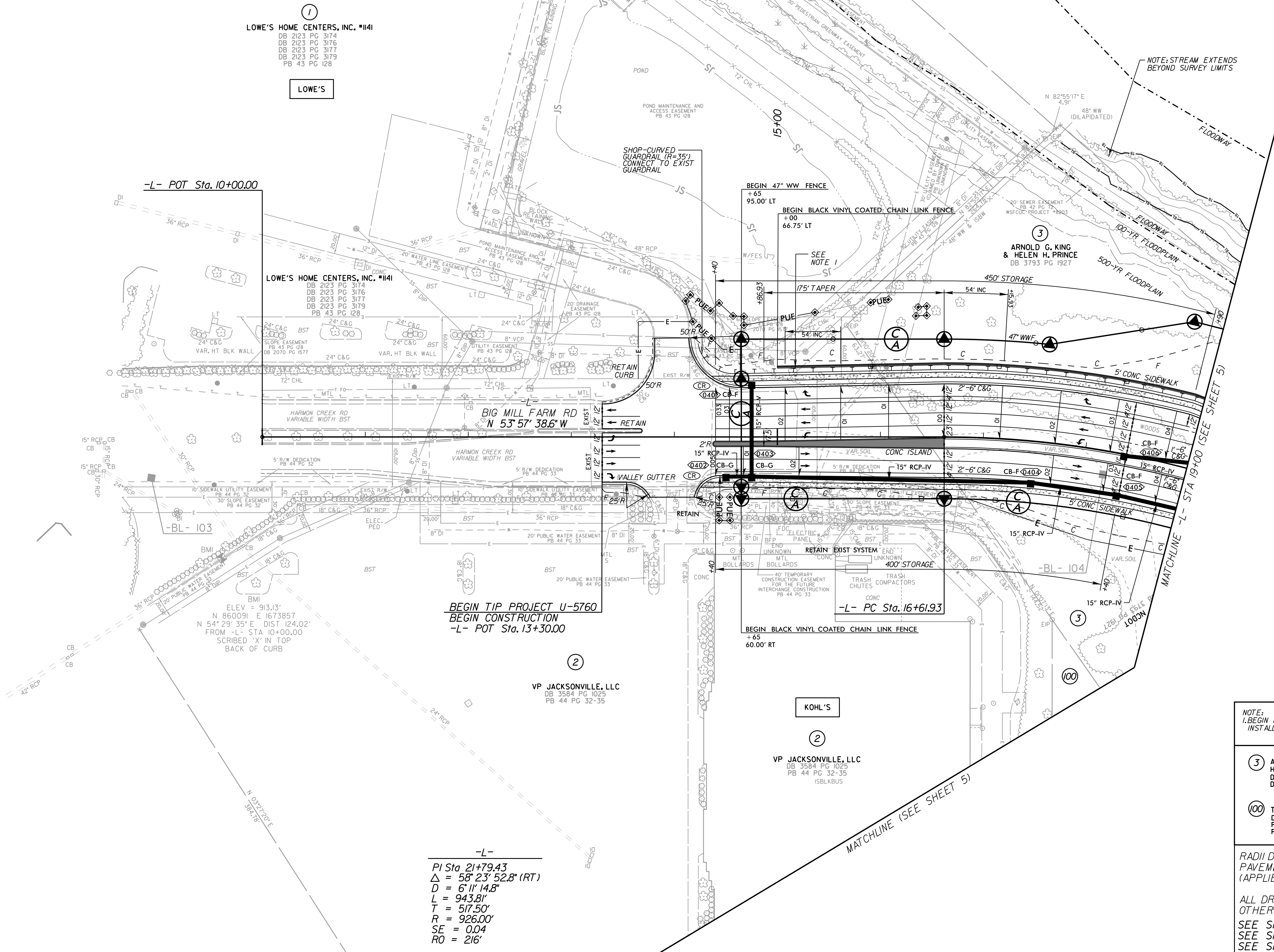
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NAD 83 NA 2011



NOTE:
1. BEGIN RETAINING WALL -WALL J- -L- STA 15+00.00 (68.75' LT)
INSTALL 48\"/>

3 ARNOLD G. KING
HELEN H. PRINCE
DB 2250 PG 829
DB 3267 PG 197

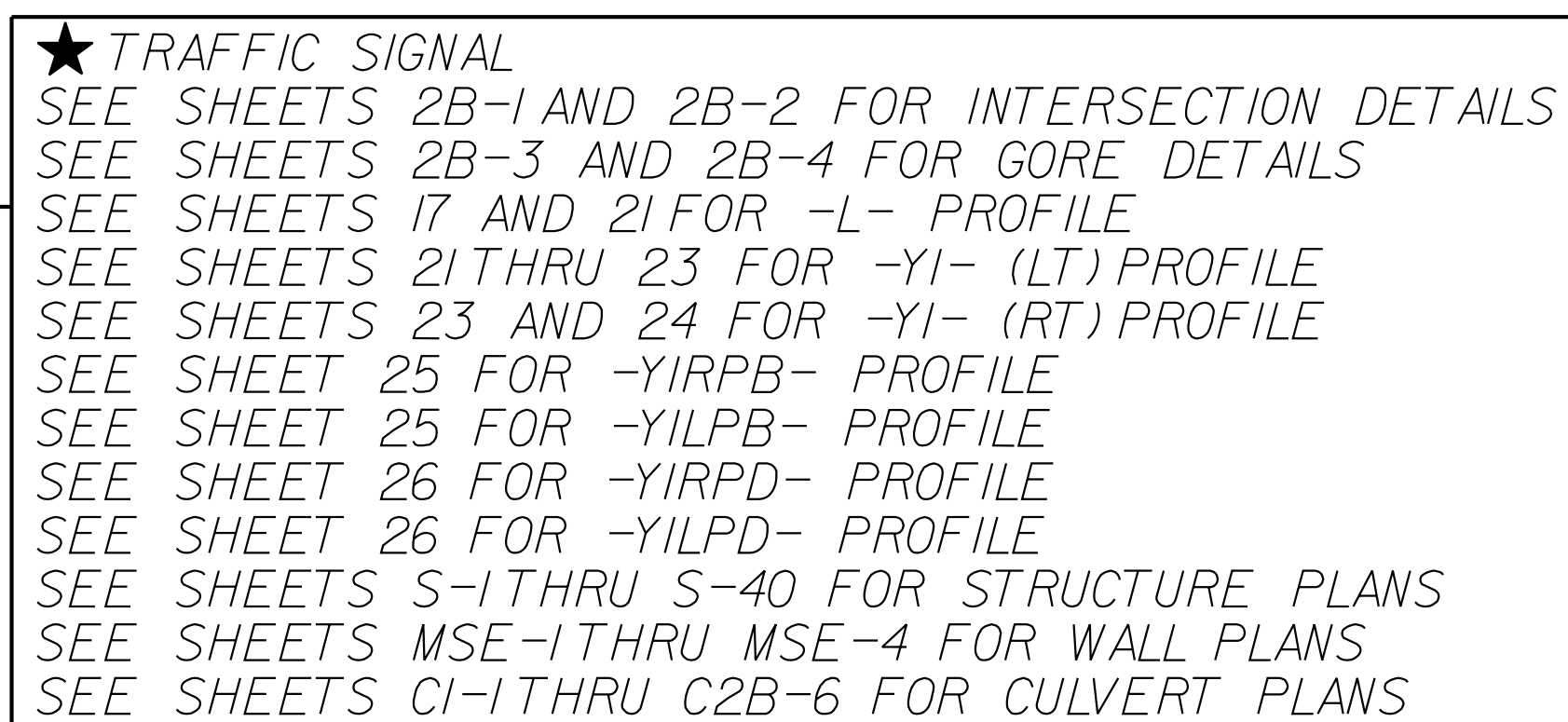
100 TOWN OF KERNERSVILLE
DB 2207 PG 106
PB 42 PG 86-89
PB 44 PG 32-35

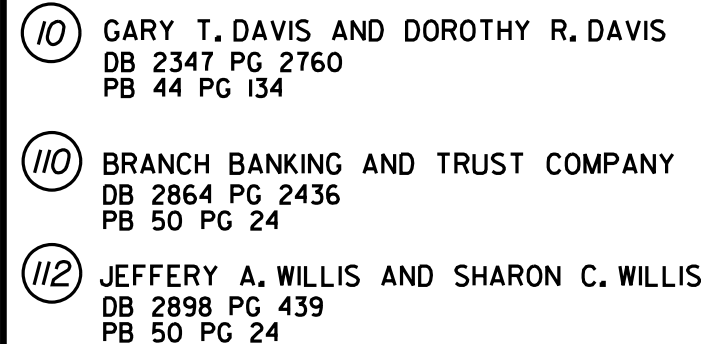
RADII DIMENSIONS ARE TO THE EDGE OF
PAVEMENT UNLESS OTHERWISE NOTED
(APPLIES TO ALL SHEETS)

ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED (APPLIES TO ALL SHEETS)
SEE SHEET 2B-1 FOR INTERSECTION DETAIL
SEE SHEET 17 FOR -L- PROFILE
SEE SHEETS MSE-1 THRU MSE-4 FOR WALL PLANS

-YIRPB- ST

SPECIAL LATERAL BASE DITCH





SEE SHEET 2B-1 FOR INTERSECTION DETAIL
SEE SHEET 18 FOR -L- PROFILE
SEE SHEET 27 FOR -Y2- PROFILE



RIGHT-OF-WAY REV

CONST REV

SHEET NO.

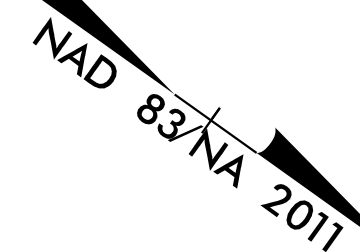
9

HYDRAULICS
ENGINEER



9/11/2025

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



-DRW2-

$PISta\ 87+87.62$
 $\Delta = 20^{\circ} 56' 13.1'' (LT)$
 $D = 3^{\circ} 34' 51.6''$
 $L = 584.66'$
 $T = 295.63'$
 $R = 1,600.00'$
 $SE = 0.035$
 $RO = 126'$

$PI\ Sta\ 10+45.61$
 $\Delta = 22^{\circ} 37' 43.0'' (LT)$
 $D = 76^{\circ} 23' 39.7''$
 $L = 29.62'$
 $T = 15.01'$
 $R = 75.00'$

44 HUNTER P. COFER
DB 3333 PG 2638

SEE SHEET 19 FOR -L- PROFILE
SEE SHEET 29 FOR -DRW2-, -DRW3-
AND -DRW4- PROFILES

5/14/99

REVISIONS

8/28/2025

Kimley»Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

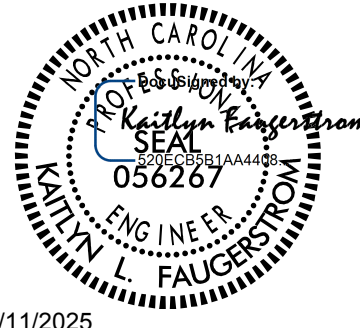
RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.
U-5760

SHEET NO.
10

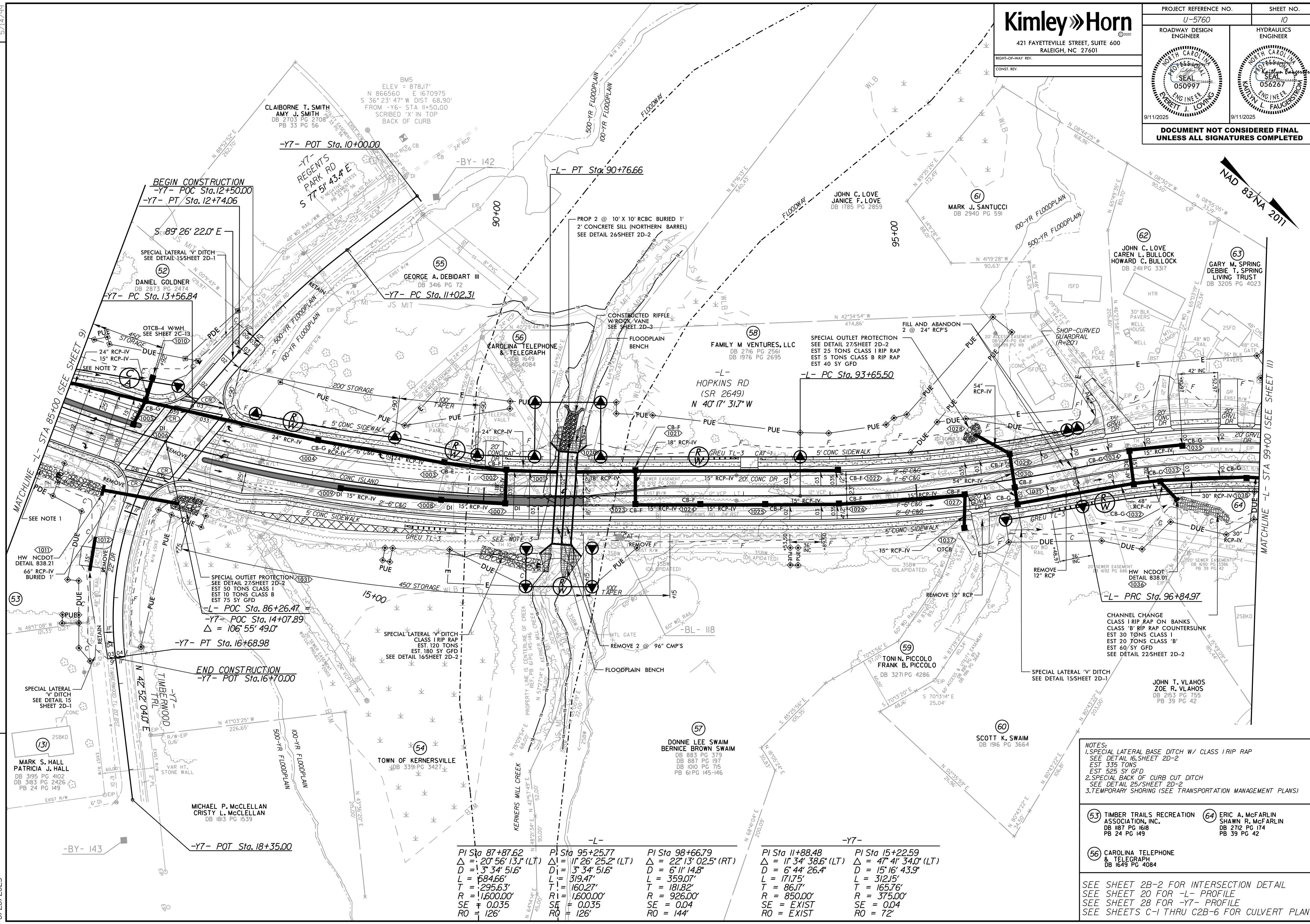
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NAD 83/NA 2011



PI Sta 87+87.62 Δ = 20° 56' 13.1" (LT) D = 1' 3' 34" 51.6" L = 1684.66' T = 295.63' R = 1600.00' SE = 0.035 RO = 126'	PI Sta 95+25.77 Δ = 11° 26' 25.2" (LT) D = 1' 3' 34" 51.6" L = 319.47' T = 160.27' R = 1600.00' SE = 0.035 RO = 126'	PI Sta 98+66.79 Δ = 22° 13' 02.5" (RT) D = 6' 11' 14.8" L = 359.07' T = 181.82' R = 926.00' SE = 0.04 RO = 144'	PI Sta 11+88.48 Δ = 11° 34' 38.6" (LT) D = 6' 44' 26.4" L = 171.75' T = 86.17' R = 850.00' SE = EXIST RO = EXIST	PI Sta 15+22.59 Δ = 47° 41' 34.0" (LT) D = 15' 16' 43.9" L = 312.15' T = 165.76' R = 375.00' SE = 0.04 RO = 72'
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NOTES:
1. SPECIAL LATERAL BASE DITCH W/ CLASS I RIP RAP
SEE DETAIL 16/SHEET 2D-2
EST 335 TONS
EST 525 SY GFD
2. SPECIAL BACK OF CURB CUT DITCH
SEE DETAIL 25/SHEET 2D-2
3. TEMPORARY SHORING (SEE TRANSPORTATION MANAGEMENT PLANS)

53 TIMBER TRAILS RECREATION
ASSOCIATION, INC.
DB 1187 PG 1618
PB 24 PG 149

64 ERIC A. McFARLIN
SHAWN R. McFARLIN
DB 2712 PG 174
PB 39 PG 42

56 CAROLINA TELEPHONE
& TELEGRAPH
DB 1649 PG 4084

SEE SHEET 2B-2 FOR INTERSECTION DETAIL
SEE SHEET 20 FOR -L- PROFILE
SEE SHEET 28 FOR -Y7- PROFILE
SEE SHEETS C-1 THRU C2B-6 FOR CULVERT PLANS