

RAI-276070HP

COMPUTED BY: MKD DATE: 09/13/2021
CHECKED BY: WDY DATE: 09/14/2021

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. SHEET NO.
U2579-AB 3D-11

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)

Main data table with columns for Line & Station, Offset, Structure Number, Invert Elevation, Minimum Required Slope, Pipe Type (R.C. PIPE CLASS III/IV, RCP, CSP, CAAP, HDPE, PVC, PP), Quantities for Drainage Structures, Frame/Grates/Hood, and Remarks. Includes a summary row at the bottom labeled 'SHEET TOTALS'.

ABBREVIATIONS table listing materials and their abbreviations: C.A.A. CORRUGATED ALUMINIUM ALLOY, C.B. CATCH BASIN, C.S. CORRUGATED STEEL, D.I. DROP INLET, G.D.I. GRATED DROP INLET, H.D.P.E. HIGH DENSITY POLYETHYLENE, J.B. JUNCTION BOX, M.H. MANHOLE, N.S. NARROW SLOT, P.V.C. POLYVINYL CHLORIDE, R.C. REINFORCED CONCRETE, T.B.D.I. TRAFFIC BEARING DROP INLET, T.B.J.B. TRAFFIC BEARING JUNCTION BOX, W.S. WIDE SLOT.

PALE-276070HP

COMPUTED BY: MKD DATE: 09/13/2021
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PROJECT NO. SHEET NO.
U2579-AB 3D-12

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)

Table with columns for Line & Station, Offset, Structure Number, Invert Elevation, Minimum Required Slope, Pipe Material (RCP, C.S., R.C.), Pipe Size, Quantities for Drainage Structures, Frame/Grates/Hood, and Remarks. Includes a SHEET TOTALS row at the bottom.

ABBREVIATIONS table listing symbols for materials like C.A.A., C.B., C.S., D.I., G.D.I., H.D.P.E., J.B., M.H., N.S., P.V.C., R.C., T.B.D.I., T.B.J.B., and W.S.

REMARKS

RAI-276970HP

COMPUTED BY: MKD DATE: 09/13/2021
CHECKED BY: WDY DATE: 09/14/2021

PROJECT NO. SHEET NO.
U2579-AB 3D-14

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)

Table with columns for Line & Station, Offset, Structure Number, Top Elevation, Invert Elevation, Minimum Required Slope, Side Drain Pipe, C.S. Pipe, R.C. Pipe Class III, R.C. Pipe Class IV, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete, Open Throat C.B., D.I., G.D.I., J.B., T.B.J.B., T.B.D.I., Steel Frame with Two Grates, Pipe Cleanout, M.H. Frame and Cover, Convert Existing C.B. to J.B., Convert Existing D.I. to J.B., Adjust D.I., 15" C.S. Elbow, 18" C.S. Elbow, 24" C.S. Elbow, 30" C.S. Elbow, 36" C.S. Elbow, 42" C.S. Elbow, BERM DITCH OUTLET, TRASH RACK, PERFORMED SCOUR HOLE, FLOWABLE FILL, CONCRETE COLLARS, and Pipe Removal. Includes a 'REMARKS' column and a 'SHEET TOTALS' row at the bottom.

RAI-276(7/01)HP

COMPUTED BY: MKD DATE: 09/13/2021
CHECKED BY: WDY DATE: 09/14/2021

PROJECT NO. SHEET NO.
U2579-AB 3D-15

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)

Table with columns: LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE), C. S. PIPE, R. C. PIPE CLASS III, R. C. PIPE CLASS IV, ENDWALLS, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL, OPEN THROAT C.B., D.I., D.I. FRAME AND GRATES, G.D.I., G.D.I. (W.S. SAG), G.D.I. (N.S. SAG), J.B., T.B.J.B., T.B.D.I., STEEL FRAME WITH TWO GRATES, PIPE CLEANOUT, M.H. FRAME AND COVER, CONVERT EXISTING C.B. TO D.I., CONVERT EXISTING D.I. TO J.B., ADJUST D.I., 15" C.S. ELBOW, 18" C.S. ELBOW, 24" C.S. ELBOW, 30" C.S. ELBOW, 36" C.S. ELBOW, 42" C.S. ELBOW, BERM DITCH OUTLET, TRASH RACK, PREFORMED SCOUR HOLE, FLOWABLE FILL, CONCRETE COLLARS, PIPE REMOVAL, ABBREVIATIONS, and REMARKS.

RAL-276970HP

COMPUTED BY: MKD DATE: 09/13/2021
CHECKED BY: WDY DATE: 09/14/2021

PROJECT NO. U2579-AB SHEET NO. 3D-16

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)

Table with columns for LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE), C. S. PIPE, R. C. PIPE CLASS III, R. C. PIPE CLASS IV, ENDWALLS, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL, OPEN THROAT C.B., D.I. TYPE, G.D.I. TYPE, and various pipe types (15", 18", 24", 30", 36", 42", 48"). Includes a table of ABBREVIATIONS and a SHEET TOTALS row at the bottom.

COMPUTED BY: MKD DATE: 09/13/2021
CHECKED BY: WDY DATE: 09/14/2021

PROJECT NO. U2579-AB SHEET NO. 3D-17

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)

Main data table with columns for Line & Station, Offset, Structure Number, Invert Elevation, Pipe Material (R.C. Pipe Class III/IV, Side Drain Pipe), Quantities for Drainage Structures, Frame/Grates/Hood types, and Remarks. Includes a summary row at the bottom labeled 'SHEET TOTALS'.

ABBREVIATIONS table listing materials like C.A.A. CORRUGATED ALUMINIUM ALLOY, C.S. CORRUGATED STEEL, etc.

REMARKS

RA1-276070HP

COMPUTED BY: MKD DATE: 09/13/2021
CHECKED BY: WDY DATE: 09/14/2021

PROJECT NO. SHEET NO.
U2579-AB 3D-18

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)

Main data table with columns for Line & Station, Offset, Structure Number, Top Elevation, Invert Elevation, Minimum Required Slope, Side Drain Pipe, C.S. Pipe, R.C. Pipe Class III, R.C. Pipe Class IV, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete, Open Throat, D.I., G.D.I., M.H., J.B., T.B.D.I., W.S., Pipe Removal, and Remarks.

SHEET TOTALS

ABBREVIATIONS table listing codes and their corresponding material names like C.A.A. CORRUGATED ALUMINIUM ALLOY, C.S. CORRUGATED STEEL, etc.

REMARKS

RAI-276(7/01)HP

COMPUTED BY: MKD DATE: 09/13/2021
CHECKED BY: WDY DATE: 09/14/2021

PROJECT NO. SHEET NO.
U2579-AB 3D-19

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)

Table with columns for Line & Station, Offset, Structure Number, Top Elevation, Invert Elevation, Minimum Required Slope, Side Drain Pipe, C.S. Pipe, R.C. Pipe Class III, R.C. Pipe Class IV, Pipe Class V, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete, Open Throat C.B., D.I., G.D.I., J.B., T.B.J.B., T.B.D.I., Steel Frame with Two Grates, Pipe Cleanout, M.H. Frame and Cover, Convert Existing C.B. to D.I., Convert Existing D.I. to J.B., Adjust D.I., 15" C.S. Elbow, 18" C.S. Elbow, 24" C.S. Elbow, 30" C.S. Elbow, 36" C.S. Elbow, 42" C.S. Elbow, Berm Ditch Outlet, #4" Sluice Gate, Trash Rack, Preformed Scour Hole, Flowable Fill, Concrete Collars, Pipe Removal, and Remarks.

SHEET TOTALS

RAI-276970HP

COMPUTED BY: MKD DATE: 09/13/2021
CHECKED BY: WDY DATE: 09/14/2021

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. SHEET NO.
U2579-AB 3D-20

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)

Table with columns for Line & Station, Offset, Structure Number, Invert Elevation, Minimum Required Slope, Side Drain Pipe, C.S. Pipe, R.C. Pipe Class III, R.C. Pipe Class IV, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete, and Pipe Removal. Includes a 'SHEET TOTALS' row at the bottom.

ABBREVIATIONS
C.A.A. CORRUGATED ALUMINIUM ALLOY
C.B. CATCH BASIN
C.S. CORRUGATED STEEL
D.I. DROP INLET
G.D.I. GRATED DROP INLET
H.D.P.E. HIGH DENSITY POLYETHYLENE
J.B. JUNCTION BOX
M.H. MANHOLE
N.S. NARROW SLOT
P.V.C. POLYVINYL CHLORIDE
R.C. REINFORCED CONCRETE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX
W.S. WIDE SLOT

PALE-276970HP

COMPUTED BY: MKD DATE: 09/13/2021
CHECKED BY: WDY DATE: 09/14/2021

PROJECT NO. SHEET NO.
U-2579AB 3D-22

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)

Table with columns: LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE), C. S. PIPE, R. C. PIPE CLASS III, R. C. PIPE CLASS IV, R. C. PIPE CLASS V, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL, OPEN THROAT C.B. STD., D.I. STD., D.I. FRAME AND GRATES STD., G.D.I. TYPE "A", G.D.I. TYPE "B", G.D.I. TYPE "D", G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD., G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD., G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD., G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD., J.B. STD., T.B.J.B. STD., T.B.D.I. STD., T.B.D.I. FOR STEEL GRATES STD., STEEL FRAME WITH TWO GRATES STD., PIPE CLEANOUT (PER EACH), M.H. FRAME AND COVER STD., CONVERT EXISTING C.B. TO D.I., CONVERT EXISTING D.I. TO J.B., ADJUST D.I., 15" C.S. ELBOW, 18" C.S. ELBOW, 24" C.S. ELBOW, 30" C.S. ELBOW, 36" C.S. ELBOW, 42" C.S. ELBOW, BERM DITCH OUTLET STD., TRASH RACK, PREFORMED SCOUR HOLE (PER EACH), FLOWABLE FILL, CONCRETE COLLARS CL. "B" STD., PIPE REMOVAL, ABBREVIATIONS, REMARKS.

SHEET TOTALS

72 72 328 512 504 24 52 102(102) 22 13.8 2 11 2 9 6 1 6 6 1 1 4 6 17 1.3166

COMPUTED BY: MKD DATE: 09/13/2021
CHECKED BY: WDY DATE: 09/14/2021

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. SHEET NO.
U-2579AB 3D-27

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)

Table with columns: LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, R. C. PIPE CLASS III, R. C. PIPE CLASS IV, R. C. PIPE CLASS V, ENDWALLS, REINFORCED ENDWALLS, DRAINAGE STRUCTURE, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, OPEN THROAT, CONCRETE BRIDGE APPROACH, DRIVEWAY, FRAME W/ GRATE, ANGLD VANE GRATES, T.B.D.I., STEEL FRAME WITH TWO GRATES, TEMP STEEL PLATE COVER MASONRY DRAINAGE, SPRING BOX PIPE, M.H. FRAME AND COVER, PIPE CLEANOUT, FLOWABLE FILL, CONCRETE COLLARS, PIPE REMOVAL. Includes rows for Y15FLYBD 39+72, Y15 154+61, Y15 157+90, and Y15 157+52, plus SHEET TOTALS and PROJECT TOTALS.

ABBREVIATIONS
C.A.A. CORRUGATED ALUMINIUM ALLOY
C.B. CATCH BASIN
C.S. CORRUGATED STEEL
D.I. DROP INLET
G.D.I. GRATED DROP INLET
H.D.P.E. HIGH DENSITY POLYETHYLENE
J.B. JUNCTION BOX
M.H. MANHOLE
N.S. NARROW SLOT
P.V.C. POLYVINYL CHLORIDE
R.C. REINFORCED CONCRETE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX
W.S. WIDE SLOT

SHEET TOTALS
PROJECT TOTALS

Summary table with columns corresponding to the main table's columns, showing totals for quantities like CY, EA, and LIN. FT.

COMPUTED BY: SCC DATE: 11/17/2019
 CHECKED BY: KBM DATE: 11/19/2019

(12-17-19)

PROJECT NO. SHEET NO.
 U-2579AB 3G-1

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SUMMARY OF GEOTEXTILE
 FOR PAVEMENT STABILIZATION

LINE	Station	Station	Geotextile for Pavement Stabilization SY	Class IV Subgrade Stabilization TONS	OFFSET
L	692+32	697+50	4,432	1,929	RT
L	735+00	744+50	8,128	3,537	LT
L	744+50	755+50	18,944	8,245	CL
L	755+50	756+75	1,042	453	LT
L	762+00	772+00	12,778	5,561	CL
L	772+00	773+00	722	314	RT
L	792+50	795+00	3,056	1,330	CL
L	795+00	796+50	867	377	RT
L	796+50	799+50	3,467	1,509	CL
L	799+50	801+00	867	377	LT
L	827+75	836+32	13,522	5,885	CL
Y4	38+00	41+00	1,433	624	RT
Y4RPB	18+63	22+78	2,951	1,284	CL
Y4RPD	10+00	12+00	600	261	CL
Y4SPB1	22+78	24+75	744	324	CL
Y5B	17+50	19+75	600	261	CL
Y15	29+50	34+00	850	370	RT
Y15	158+00	160+25	625	272	RT
Y15REV	8+00	16+50	4,722	2,055	LT
Y15REV	28+75	43+00	24,067	10,474	CL
Y15REV	43+00	44+50	1,233	537	RT
Y15REV	74+50	77+25	2,200	957	LT
Y15REV	82+00	88+50	2,167	943	LT
Y15RPA	10+00	19+50	3,906	1,700	CL
Y15RPB	10+00	20+00	4,111	1,789	CL
Y15RPB	22+00	33+22	4,613	2,008	CL
Y15RPC	18+00	25+15	1,986	864	CL
Y15RPD	10+00	27+00	6,989	3,042	CL
Y15FLYAC	15+50	47+61	16,055	6,987	CL
Y15FLYAC	67+33	78+00	4,742	2,064	CL
Y15FLYBD	12+00	13+60	462	201	CL
Y15FLYBD	16+00	39+36	10,901	4,744	CL
Y15FLYBD	50+33	69+50	13,419	5,840	CL
Y15FLYCA	41+50	54+58	6,104	2,657	CL
Y15FLYCA	69+65	71+50	802	349	CL
Y15FLYCA	82+79	90+39	3,293	1,433	CL
Contingency				5,500	
Total SY / Tons :			187,400	87,057	

*Total tons of "Class IV Subgrade Stabilization" is only the estimated quantity for pavement stabilization and may only represent a portion of the subgrade stabilization quantity shown in the Item Sheets of the Proposal.

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 Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
CONTINGENCY			AST	3				500	
CONTINGENCY			ASU 1	12	3,000	5,500	15,000		9,500
TOTAL CY/TONS/SY:					3,000	5500**	15000**	500	9,500

*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 Soil 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 SETTLEMENT GAUGES

Gauge No.	LINE and Station	Offset	
		Distance FT	Direction LT/RT
1	39+30 -Y15FLYBD- +/-	20 +/-	LT
2	39+30 -Y15FLYBD- +/-	20 +/-	RT
3	51+70 -Y15FLYBD- +/-	20 +/-	LT
4	51+70 -Y15FLYBD- +/-	20 +/-	RT
TOTAL GAUGES (EACH):			4

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
L	697+00	704+00		SD	2,100
L	721+00	727+00		SD	1,800
L	782+00	791+00		SD	2,700
Y15	44+00	53+00		SD	1,600
Y15	145+00	159+00		SD	4,200
Y15LPA	10+00	20+00		SD	2,000
CONTINGENCY				SD	1,000
TOTAL LF:					15,400

*UD = Underdrain

*BD = Blind Drain

*SD = Subsurface Drain

SUMMARY OF BRIDGE WAITING PERIODS

Bridge Description	End Bent/ Bent No.	Months
Bridge No. 726	End Bent 1	3
Bridge No. 726	End Bent 2	3
Bridge No. 727	End Bent 1	2

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**

PARCEL INDEX SHEET

PROJ. REFERENCE NO.	SHEET NO.
U-2579AB	3P-1

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4	BOBBY LEE MOORE
2	4	NCDOT
3	4	ROBERT W. BROWN
1	5	BOBBY LEE MOORE
2	5	NCDOT
3	5	ROBERT W. BROWN
4	5	CLINTON THOMAS BOBBIT
5	5	WILLIAM C. RAMEY
6	5	HARRY L. ROBERTS
7	5	JAMES W. BAKER
8	5	ROBIN M. MANUEL
9	5	ROBERT L. OGLESBY
10	5	DAVID K. BROWN JR.
11	5	JERRY CURTIS MANUEL
12	5	FRANCIS L. MANUEL
12	6	FRANCIS L. MANUEL
13	6	EUGENE J. GILLIS
14	6	GREGORY KENT HEDRICK
15	6	FORSYTH COUNTY BOARD OF EDUCATION
16	6	CRAIG E. HOBAN
17	6	DANNY R. SMITH OMANA L. SMITH
18	6	MARK T. WILSON
19	6	FRANCIS W. POPE
20	6	FRANCIS L. MANUEL
21	6	TONY L. DILLON
22	6	RICHARD K. BLEVINS
23	6	NCDOT
24	6	CHRISTOPHER D. CHURCH SHELLEY J. CHURCH
25	6	UNKNOWN
25	6	NCDOT
27	6	LONDON R. TAFFER EVON TAFFER
28	6	NCDOT
29	6	NCDOT
30	6	LORAN S. HORDE
31	6	MICHAEL R. COUCH
32	6	HILDA B. MOORE
33	6	WHITE WALNUT LLC
34	6	JEFFREY W. JENKINS
35	6	IDA RAY CARTER
36	6	NCDOT
37	6	MARK W. CHANDLER
38	6	GREGORY KENT HEDRICK
38	13	GREGORY KENT HEDRICK
39	6	PAUL E. HARRELL
40	6	FRED L. WEAVIL HEIRS
41	6	R.K. BLEVINS
42	6	R.K. BLEVINS
43	6	BRIAN M. AND AMBER B. IDOL
44	6	R.K. BLEVINS
45	6	TERRY W. MOTSINGER
46	6	MICHAEL WAYNE ROLAND
47	6	FRANCIS W. POPE
49	6,7	MARLENE P. FLINCHUM
50	6	AMY P. STINNITT
51	6	JERRY M. PEGRAM
53	6,14	GEORGE NICK ANGEL
54	6,14	GEORGE NICK ANGEL
55	6	WHITE WALNUT LLC
56	6,14	FORSYTH COUNTY BOARD OF EDUCATION
57	14	STEVEN W. AND TIFFANIE M. DOYLE

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
59	6	JOE NEAL COLLINS
60	6	MICHAEL RAY TOZER
61	6	VELMA G. PARNELL
62	6,7	LEONARD C. DAVENPORT
63	14	REGIONAL REALTY INC.
64	7	IH2 PROPERTY NORTH CAROLINA, LP
65	7	DOROTHY A ROUDABUSH
66	7	JACK A. TOLBERT
67	7	MARGARET P. ELTING, HEIRS
68	7	MARLENE P. FLINCHUM
69	7	ELMER L. FLINCHUM
70	7	ELMER L. FLINCHUM
71	7,8	FLORA S. MANNING
72	7,8	JACK V. EARNHARDT
73	7	MARLENE P. FLINCHUM TRUSTEE
74	8	ROBERT B. BOYLES
75	7	JAMES EDWARD POPE
76	7	ARCHIE H. EMBLER
77	7	SAVANNAH HOLDINGS LLC
78	7,8	JUSTIN W. STRICKLAND
79	8	ZHANG LIN
80	7,8	VIRGINIA L. SHEARD
81	7,8	PATRICIA GWYN SHELTON
82	7,8	KIM E. BLACKWELL
82A	7,8	SONIA BOLES
83	8	MELBA RAE ATKINS
84	8	ASHLEY G. PELHAM
85	8	SHUGART ENTERPRISES LLC
86	8	HELEN L. GORDON
87	8	ROBERT R. WILSON SR. JOANNE E. WILSON
88	8	LILIAN M. CIFUENTES
89	8	MARY M. RUTLEDGE
90	8	NCDOT
91	8	NCDOT
92	8	MEGAN PENNY EVERETT
93	8	GERALD DORSETTE BEVERLY P. DORSETTE
94	8	CARMEN M. JOYCE
95	8	DAVID L. WILLIAMS
96	8	LORI R. BAKER
97	8	TINA M. STEWART and husband MARK A. STEWART
98	8	SCOTT E. GURSTEIN
99	8	JERRIE M. PERKINS
100	8	LOUIS ROY HART, JR., and YALOHA DORALI MAIRENA
101	8	SALOMON CISNEROS-HERNANDEZ
102	8	REESHMAH HEMMINGWAY
103	8	SHELBY JEAN CONLEY
105	8	ANNA A. PRICE, TRUSTEE
106	8,9	THOMAS F. RILEY
107	8,9	LOREN A. LITTLE
108	9	SEDGE GARDEN SWIM & RACQUET CLUB
109	9	JOSEPH K. COFFEY
110	9	TERRY W. MOTSINGER and wife ELLEN R. MOTSINGER
111	9,10	TERESA J. TUCKER TIMOTHY E. TUCKER
112	10	NCDOT
604	10	BILLY DEAN FORD
114	10	NCDOT
115	10	NCDOT
116	10	WENDY R. HOLLEMAN
609	10	STEPHEN RALPH NEEDHAM SUSAN LYNN NEEDHAM
118	10	NCDOT

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**

PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
605	10	WALTER RAY FORTNEY, JR.
601	10	KRONE EDWARD EUDY SHIRLEY ELAINE EUDY
607	10	DENISE M. IREIFEJ
614	10	MAKEISHA SHANTEL TODD
602	10	JOSEPH B. FLETCHER AND TAMMY FLETCHER
610	10	RESI TL1 BORROWER LLC
680	10	JOSEPH JAMES SIMCIC REBECCA MAE SIMCIC
673	10	EDMON AND LESLEY GARMON
608	10	LANDON MARX
683	10	TRIDENT PROPERTIES LLC
623	10	STEVEN AND AMY HOBBS
619	10	JONATHAN CLARK and wife JILL W. CLARK
128	10	NCDOT
627	10	LR DEVELOPMENT-WS LLC
616	10	AMH NC PROPERTIES LP
621	10	DARREN AND MELISSA ENGELKEMIER
684	10	ZACHARY TYLER WHICKER HEATHER N. BASHAM WHICKER
135	10	NCDOT
672	10	WENDALL M. FUTRELL ANGELINA V. FUTRELL
674	10	KIMBERLY L. GIBBS
681	10	NICOLE SMITH
633	10	CORY LEE STROUD
626	10	IRVIN L. KELLY VALORIA KELLY
635	10	DEBORAH WOLFE
141	10,11	YVONNE R. MOTSINGER and KAY M. BAILEY, TRUSTEES
142	10	JAMES A. MOTSINGER
143	10	JASON & TABATHA THOMAS
144	10	WILLIAM EDWARD FRASCH MELISSA ANDERSON FRASCH
144	25	WILLIAM EDWARD FRASCH MELISSA ANDERSON FRASCH
145	10	JANICE A. THOMAS
146	10	LARRY A. WATKINS BETH G. WATKINS
146	25	LARRY A. WATKINS BETH G. WATKINS
147	10,25	GARY E. WINSLOW
148	10	FLOYD E. ANGELL
139	20	IRVIN L. KELLY VALORIA KELLY
150	10,25	AULTON LAVERNE BOSTICK
151	10,11	LENNA SHEW
151	25	LENNA SHEW
152	11	JACK M. SHIELDS
153	11	AMY C. SIMMONS M.R. SIMMONS JR.
154	11	JUNE L. AUSTIN
155	11,25	GREGORY C. MAXEY JR.
156	11,25	NCDOT
157	11	WILLIAM F. BARRY III HILDA S. BARRY
158	11	PAMELA C. BEANE
159	11	LAURA J. VEACH TRUSTEE
160	11	BOYD RUMLEY STAFFORD
161	11	WADE H. GABARD JR.
162	11	WADE H. GABARD JR.
163	11	LOIS Z. COLLINS
164	11	MICHAEL SCOTT SHIELDS
165	11	GLORIA S. NICHOLS
166	11	RICKY P. SMITH MARY JANE SMITH
167	11	MICHEAL SCOTT SHIELDS
169	11	DAVID MOTSINGER WAYNE MOTSINGER
170	11	CHESTER MONROE SMITH BETTY M. SMITH
170	10,19	CHESTER MONROE SMITH BETTY M. SMITH
169	19	DAVID MOTSINGER WAYNE MOTSINGER
171	11	EVERETT DEAN HIATT, SR. and wife THERESA HOAGUE HIATT
172	11	HONEY CHRISTINE COLLINS

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
173	11	REGIONAL REALTY INC.
175	11	MARIBEL AND MARIO MENEDEZ
176	11	JEANETTE N. PRUITT
177	11	BARBARA J. PRUITT
178	11	GARNESSE BROOKS
179	11	GARNESSE BROOKS SHIRLEY BROOKS
180	11	NCDOT
181	11	PEGGY SMITH JAMES
182	11	JERRY F. AND VIRGINIA M. FORESTIERI, TRUSTEE
183	11	STEVEN AND TAMMY STRICKLAND
184	11	BOBBY LEE DAVIS JR. KELLY OAKLEY DAVIS
185	11	ROBERT M. SIMMONS
186	11	DANA B. JOHNSON
187	25	PHYLLIS ANN GRAHAM
188	11	MICHAEL D. SKOTCHER
189	11	MAVACHELE F. AND THOMAS E. HAYNES
190	11	MARY A. PARRETT
191	11	MARK L. AND CAROL A. BULLARD
192	11,12	HELEN TROTTER
193	11	GAETANA T. CARTER
199	25	CHESTER MONROE SMITH
200	25	NCDOT
201	10,25	JOHN S. LASSLER JR. JENNIFER L. MCCORMICK
202	25	GLENN VIEW BAPTIST CHURCH
203	25	ROBERT C. BAILEY
205	25	CLYDE ANGELL
206	25	FERNANDO LUIS SIERRA MELINDA P. SIERRA
207	25	JAMES A. SNIPES CARRIE A. SNIPES
208	25	FLOYD E. ANGELL
210	25	JOHN W. HODGES BILLY J. HODGES
211	25	DAWN BOTT
212	25	DARRELL A. TURNEY CATHY TURNEY
214	10,20	TERRY L. LANDINGHAM IRIS LANDINGHAM
214	25	TERRY L. LANDINGHAM IRIS LANDINGHAM
215	25	EVERETT DEAN HIATT and THERESA HOAGUE HIATT
216	25	JAMES WHALEY
217	25	MARIAN H. CRINER
218	25	NICHOLAS R. CANTRELL PATRICIA B. CANTRELL
219	25	JODY L. SIGMON CATHERINE W. SIGMON
220	25	JEFFREY P. FABRIZIO
221	25	JOHN H. SEIDELMANN ROSEMARY S. SEIDELMAN
222	25	KENNETH LEE SMITH PAULA SMITH
223	25	ROBERT W. WESTFALL KELLI D. WESTFALL
224	25	WILLIAM C. STACK DONYA J. STACK
225	25	EASTLIN V. THOMPSON
226	25	SAUL GALVAN AQUILAR
227	25	BENARD R. HARRIS
228	25	SHARON ATKINS MACHIE
229	25	DAVID S. CAUDLE
230	20	NCDOT
231	20	CECIL S. LITTLE STEVEN A. HILL
232	20,25	WESLEY G. PARNELL SARAH N. PARNELL
233	20	VANN ROGER MOTSINGER ELIZABETH MOTSINGER
234	20	NCDOT
236	20	NCDOT
645	20	WILLIAM A. KUHL BRENDA KUHL
642	20	ELIZABETH SMITH JASON D. DARRAH
641	20	BARBARA W. CLAPP
240	20	LEE JAY WHITE AREATHER K. WHITE
241	20	NCDOT

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**

PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
661	20	L. DENISE FRANCIS
636	20	THOMAS D. SWAISGOOD
244	20	NCDOT
245	20	NCDOT
654	20	DANYELLE R. WOODARD
653	20	SHAWN D. WEEKS
652	20	MICHAEL N. WAGONER SR. DEBARA O. WAGONER
249	20	NCDOT
637	20	AMBER Y. BOLIN
639	20	MARLA Y. BRABHAM
252	20	NCDOT
651	20	LATANDRA T. VANCE
254	20	STEPHIANA L. BELL TIMOTHY RICHARDSON
646	20	BOBBIE L. LINVILLE JR. SHERRI J. LINVILLE
640	20	BOBBY BREWER JR.
643	20	TONJA R. DUNLAP
648	20	JOHN QUINTERO CAROLINA SARRIA
259	20	DAVID J. SMITH BETTY C. SMITH
260	20	NCDOT
649	20	KARY LEA SIDES
650	20	GREGORY AND LEANNA STEPHENSON
263	20	NCDOT
264	20	NCDOT
265	20	MICHAEL E. TURNER BRANDY O. TURNER
266	20	M. NEIL WAGONER JR.
267	20	SREYNEE LEAV
268	20	MIKAEL A. MIKKOLA
269	20,21	THOMAS S. HART LOUISE HART
270	20,21	NCDOT
271	20	NCDOT
272	20	KURT VON SLIGH CATHERINE SLIGH
273	20	NCDOT
274	20	DAVID WENDELL PHILLIPS
275	20	JERRY ARNOLD OAKLEY JOE E. BOSTIC
276	20	NCDOT
277	20	SCOTT HOLMES PAM HOLMES
278	20	JACOB E. DAHLIN and wife LORI B. DAHLIN
279	20	LATRICE N. McDOWELL
280	20	NCDOT
281	20	OCTAVIO H. MARTINEZ ANGELICA MARTINEZ
282	20	DAVID P. DODGE
283	20	NCDOT
284	20	NCDOT
285	20	RONNIE D. PATEE VESTA C. PATEE
286	20	WALTER INGRAM JR.
287	20	NCDOT
288	20	U.S. BANK NATIONAL ASSOCIATION
289	20	KENNETH ALAN MCFADDEN PAMELA O. MCFADDEN
290	20	NATHAN D. AND AMANDA K. DARRAH
291	20	SHERRY L. ROMESBERG
292	20	DEBORAH W. VIOLETTE
293	20	TAMMY EUNICE GARNER
294	20	TAMRA LYNNETTE HENNIS
295	20	JEFFREY CLEVE MAIN
296	20	NCDOT
297	20	MARK A. HOWELL MELISSA HOWELL
298	20	NCDOT
299	20	NCDOT
300	20	NCDOT
301	21	WILLIAM A. FRANK ROSE EMILY FRANK

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
302	21	SECRETARY OF HOUSING AND URBAN DEVELOPMENT
303	21	JOAN ALLAN PETER ALLAN
305	21	ETTASTEIN G. HARRIS
306	21	DONNIE L. NEAL and wife RAQUEL HERNANDEZ MEDINA
307	21	MARK A. KEITH CATHY E. KEITH
308	21	NEIL M. RISHEQ MANAL RISHEQ
309	21	HEAVEN'S GATE TRUST, D. SIKES AS TRUSTEE
310	22	FIRST CHRISTIAN CHURCH MINISTRIES
311	22	FIRST CHRISTIAN CHURCH MINISTRIES
312	22,23	FIRST CHRISTIAN CHURCH MINISTRIES
313	22,23	WANELL W. WALL
314	22	PRISCILLA FORD
315	22	JAMES S. FINCH NANCY S. FINCH
316	22	MICHELLE D. POULOS JAY J. POULOS
317	22	BRIAN J. CLARK MARIA E. CLARK
318	21,22	MARK S. RICHARDSON MARISA T. RICHARDSON
319	23	CHARLES O. WILLIARD JR.
320	23	PRIME PROPERTY, LLC
321	18	JOHN L. ARANT
321	16,17	JOHN L. ARANT
322	16	CLAUDE STEVE ALLRED JR. ANNE JONES ALLRED
323	13	CATHERINE E. BALLARD and MARK. A. BALLARD
323A	13	WORD C. CLARK JR.
324	13	ROBERT F. SIDES
325	13	SHARON A. SNOW KATHERINE M. HOFMAN
326	6,13	KAY B. WHITE
327	13	JAMES A. LANGHAM
328	13	MARY E. BAKER
329	13	MAGDELINE TEMPLE WILKINS
330	13	TRUSTEES OF THE SEDGE GARDEN BAPTIST CHURCH
331	13	NCDOT
332	13	SOUTHERN BELL TELEPHONE AND TELEGRAPH COMPANY
333	13	CHARISSA M W HALTERMAN
334	13	MATTHEW J. LANE
335	13	SHAHID CHAUDHARY
336	13	TINA M. SHIPP
337	13	EVERETT DEAN HYATT
338	13	GARY W. PEAK
339	13	DARRYL P. HELGESEN
341	14	PATSY A. EBERT
342	14	TAYLOR FAMILY PROPERTIES LLC
343	14	TAYLOR FAMILY PROPERTIES LLC
344	14	BILLIE J. EBERT
345	14	MARK R. AND ROBYN N. PEGRAM
346	14	CURTIS LEE HUNDLEY
347	14,15	JOSHUA SCOTT KUEIDER
348	14,15	DONALD W. MANUEL JEFFREY L. MANUEL
349	14	RICKY L. OAKLEY
350	14	MICHAEL J. SAPP
351	14	DELORES S. CLARKE CARL L. CLARKE
352	14	DON M. BERRIER LINDA BERRIER
353	14	C.D. WALKER PROPERTIES, LLC
354	14	SHUGART ENTERPRISES, LLC
355	14	GENEVA C. PENDRY
357	15	ANGEL BRANCH HERNDON
358	15	JANE PAGE PERSONAL PROPERTIES, LLC
359	14,15	DONALD W. MANUEL JEFFREY L. MANUEL
360	15	HENRY FRANKLIN ROGERS KIMBERELY MICHELLE ROGERS
360A	15	TIMOTHY A. & TAMMIE J. UTT
360B	15	MAYNOR LEONEL PAYES

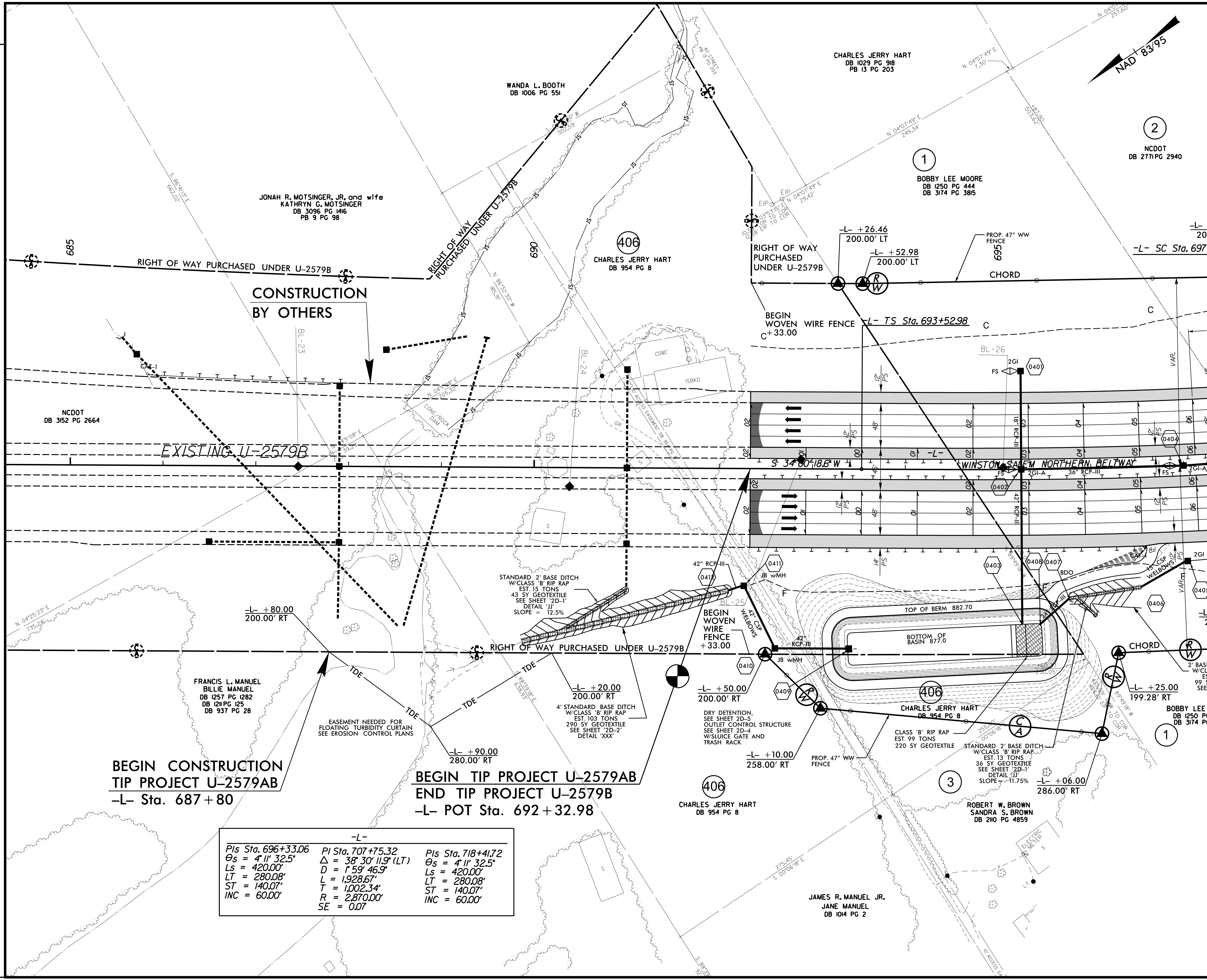
**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**

PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
361	26	RICHARD AND JOYCE MOORE
362	26	JEFFREY LYNN MOHN CHRISTINE JONEA MOHN
363	26	RAY THOMAS MASTIN VERA LAWS MASTIN
364	27	LLATOSHA R. HARRIS
366	27	CYNTHIA L. WATKINS
367	27	BRANDON BILLINGS
369	25	WILLIAM M. RUTHERFORD, JR. and wife SARA E. RUTHERFORD
370	14,15	REHAN RIAZ
656	26	AMH NC PROPERTIES LP
372	26	HERBERT WASHINGTON CAUDELL BIRDIE ANN CAUDELL
373	26	JAMES K. FINCH ELIZABETH T. FINCH
374	26	THOMAS G. MANNEL DONNA J. MANNEL
375	26	LEONARD CALLOWAY JR.
376	10	RUBY B. ANDERSON
377	20	TANEKA A. SAPP AND STEVEN B. SCALES
378	6	DAVID W. GARDNER AMY D. GARDNER
379	6	ANTHONY C. JARVIS and wife TERESA B. JARVIS
380	6	MARK D. ANTHONY CAROL ANTHONY
381	6	THOMAS AND REBECCA HOVORKA
634	10	US SFE ASSET COMPANY 3 LLC
383	20	NCDOT
660	26	DANIEL COREY
385	15	KRISTI VAUGHN and MICHEAL W. SPENCER
386	6,13	ALMA A. SCOTT
387		LUNDY W. HALL WENDY T. HALL
388		JOHN GREGORY RICHARDSON and wife ANGELA S. RICHARDSON
389		TERRY R. CONNER
390	27	BRENDA M. RANAQAN
391	27	ROY A. WILSON BETTY WILSON
392	27	SHELBA J. TALLEY JONAH R. MOTSINGER
393	27	JONAH RAY MOTSINGER JR. KATHRYN MOTSINGER
394	8	BRENDA HOLT KIVETT
395	6,7	OPAL FLOYD
396	6	WADE L. SHUMATE RONDA SHUMATE
397	6	PMJ HOLDINGS LLC
398		UNKNOWN PROPERTY OWNER
399	8	PATRICIA CONTRERAS DE AMADOR and MATIAS AMADOR VIZCAINO
400	20	MAUREEN M. SOUTHERN
401	20	ANDREW CHRISTOPHER ANDERSON and wife WHITNEY RENEE LOCKHART-ANDERSON
402	20	KEVIN RUSSELL SHREVE DONNA COX SHREVE
403	20	JEFFREY W. YOUNG
668	20	SUSAN M. THOMAS
405	20	RAMONA SHERRILL PHELPS
406	4	CHARLES JERRY HART
407	6	ERIC A. JACKSON
408	6	RUSSELL N. AND OLIVIA D. WORTHEN
409	6	GARY D. ATKINS and wife DEBRA D. ATKINS
410	13	EVERETT DEAN HYATT
603	10	JOE AND PAMELA M. FLUITT
612	10	STEVEN DAVID STEPT
682	10	DERRICK J. AND KRISTINA SWAIM
414	10	NCDOT
415	10	NCDOT
615	10	WBD HOMES, LLC
600	10	HAILEY C. BENSON
613	10	VALERIE BOONE TAYLOR
419	10	NCDOT
606	10	TYRONE HALE AND NIKKI S. HALE
679	10	DANIELLE AND JACOB OSBORNE
675	10	WILLIE F. HART JR AND ANNA JO H. HART

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
671	10	DANTE AND GIZELLE BOYLES
624	10	IAN HUTAGALUNG
629	10	RONALD C. MANN JR.
628	10	SYLVIA MAENDL
631	10	PETER AND MIDORI OHNO
618	10	MICHEAL CHURCH
632	10	DARRELL ALAN SOUTHERN and JAMIE PRICE SOUTHERN
625	10	ANTHONY JONES and TIFFANY JONES
622	10	CONNIE P. GONZALEZ
432	10	NCDOT
433	10	NCDOT
617	10	GEORGE ABDELLMELK
630	10	LONDON MARX
437	25	JAMES WHALEY
677	10	LOCKRIDGE-WINSTON LLC
439	25	JESS A. BALDONADO JEN A. BALDONADO
802	10	NCDOT
804	10	MARK WYCHGRAM
805	20	NCDOT
807	6	NCDOT
808	6	NCDOT
809	20	NCDOT
810	10	NCDOT
811	20	NCDOT
813	20	NCDOT
815	20	NCDOT
816	20	NCDOT
817	10	NCDOT
820	20	NCDOT
821	20	NCDOT
822	20	NCDOT
825	10	NCDOT
826	10	NCDOT
827	8,9	NCDOT
644	20	HEATHER W. HANNA
829	20	LUIS MORALES
830	10	KERRY TAYLOR
831	20	NCDOT
832	20	NCDOT
833	20	NCDOT
834	20	NCDOT
835	6	NCDOT
836	10	NCDOT
837	6	NCDOT
838	11	NCDOT
841	10	NCDOT
842	20	NCDOT
844	6	NCDOT
846	7	NCDOT
666	20	STEPHEN M. OVERBY ASHLEY B. OVERBY
848	20	NCDOT
849	20	NCDOT
850	10	NCDOT
851	25	NCDOT
853	25	TROY RAY BAKER
855	10	NCDOT
856	6	NCDOT
857	20	NCDOT
678	10	SARA E. LUMSTON
864	20	NCDOT

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



BEGIN CONSTRUCTION TIP PROJECT U-2579AB
-L- Sta. 687 + 80

BEGIN TIP PROJECT U-2579AB
END TIP PROJECT U-2579B
-L- POT Sta. 692 + 32.98

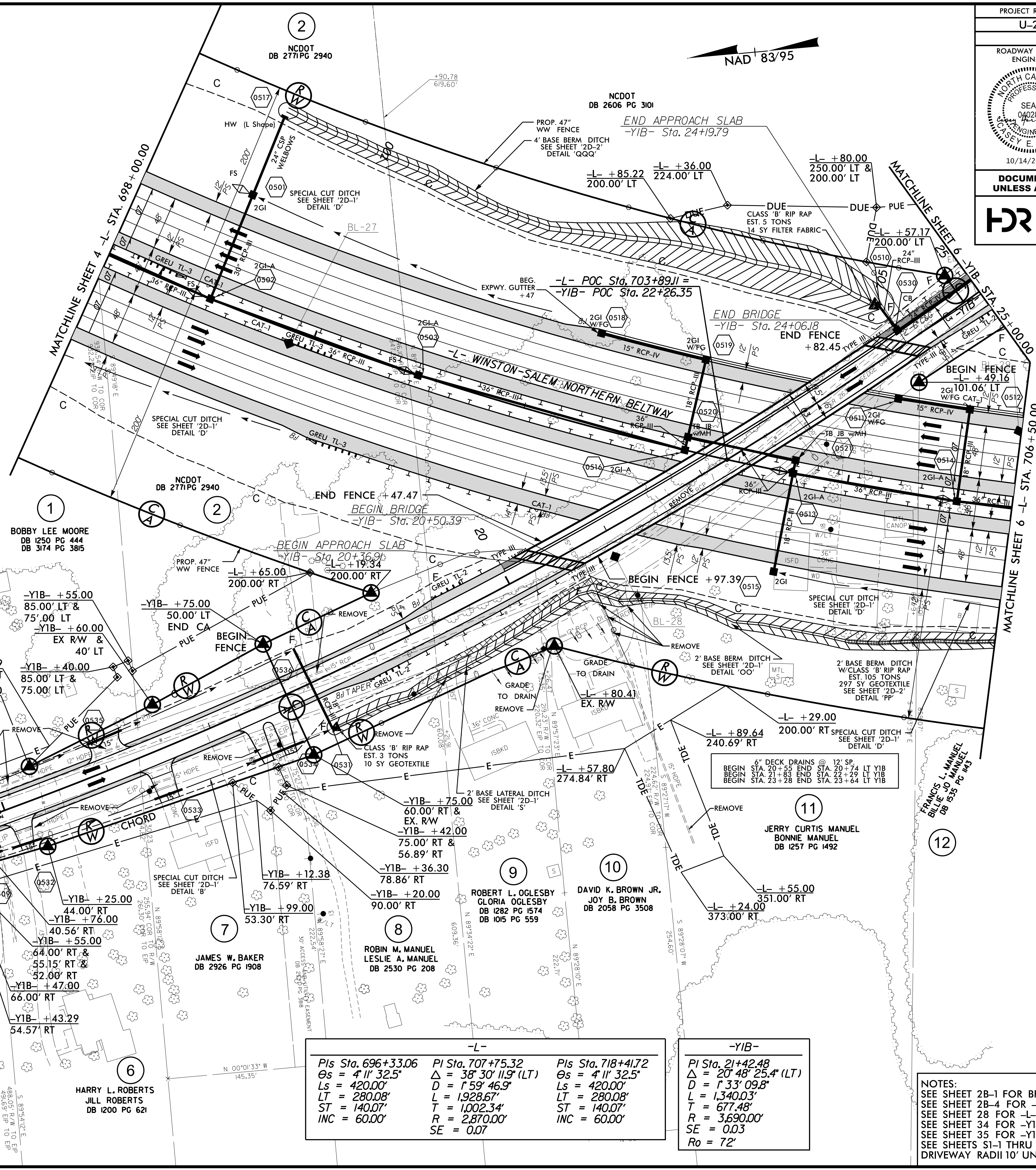
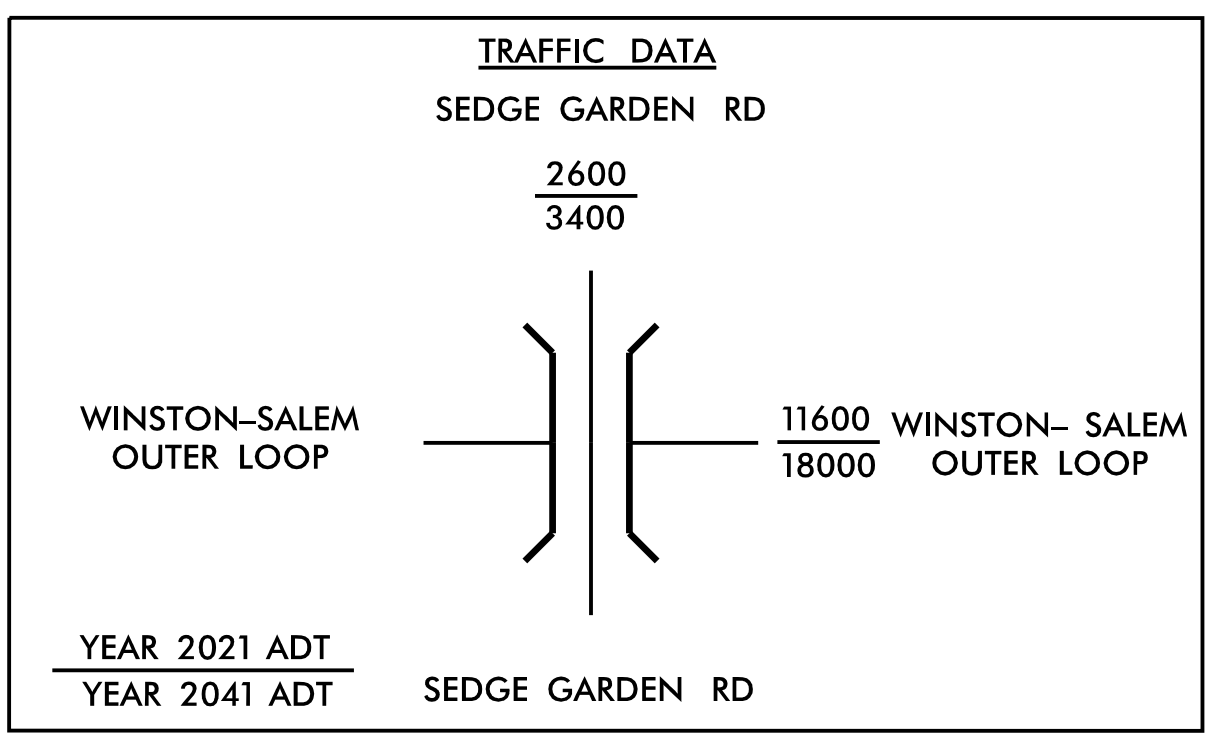
$Pts Sta. 696+33.06$	$Pi Sta. 707+75.32$	$Pts Sta. 718+41.72$
$\theta_s = 4' 11' 32.5''$	$\Delta = 38' 30' 11.9'' (LT)$	$\theta_s = 4' 11' 32.5''$
$Ls = 420.00'$	$D = 1' 59' 46.9''$	$Ls = 420.00'$
$LT = 280.08'$	$L = 1,928.67'$	$LT = 280.08'$
$ST = 140.07'$	$T = 1,002.34'$	$ST = 140.07'$
$INC = 60.00'$	$R = 2,870.00'$	$INC = 60.00'$
	$SE = 0.07$	

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 DATE: 10/13/2021
 TIME: 1:29:34 PM
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In_Progress\U-2579AB\Roadway\Proj\U2579ab_rdy_psh_04.dgn

PAVED SHOULDER

NOTES:
SEE SHEET 28 FOR -L- PROFILE

PROJECT REFERENCE NO. U-2579AB		SHEET NO. 5	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-01116	



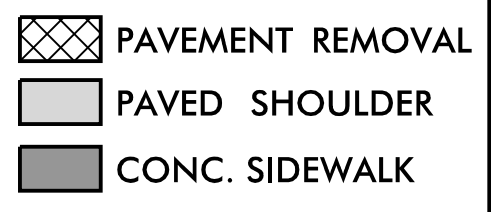
REVISIONS

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 USER: SPEREIRA DATE: 8/27/2021 TIME: 2:02:59 PM

-L-		
PI Sta. 696+33.06	PI Sta. 707+75.32	PI Sta. 718+41.72
Os = 4' 11" 32.5"	Δ = 38' 30" 11.9" (LT)	Os = 4' 11" 32.5"
Ls = 420.00'	D = 1' 59" 46.9"	Ls = 420.00'
LT = 280.08'	L = 1928.67'	LT = 280.08'
ST = 140.07'	T = 1,002.34'	ST = 140.07'
INC = 60.00'	R = 2,870.00'	INC = 60.00'
	SE = 0.07	

-YIB-	
PI Sta. 21+42.48	PI Sta. 20+74.74
Δ = 20' 48" 25.4" (LT)	
D = 1' 33" 09.8"	
L = 1,340.03'	
T = 677.48'	
R = 3,690.00'	
SE = 0.03	
Ro = 72'	

NOTES:
 SEE SHEET 2B-1 FOR BRIDGE SKETCH
 SEE SHEET 2B-4 FOR -YIB- DETOUR PLANS
 SEE SHEET 28 FOR -L- PROFILE
 SEE SHEET 34 FOR -YIB- PROFILE
 SEE SHEET 35 FOR -YIBDET- PROFILE
 SEE SHEETS S1-1 THRU S1-46 FOR STRUCTURE PLANS
 DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED



-YARPA- Pts Sta 11+02.22 Δ = 2' 02" 15.2" Gs = 3' 49" 13.5" Ls = 200.00' LT = 10.22' ST = 69.55' R = 3000' INC = 3000' SE = 0.00	-YARPA- Pts Sta 14+00.77 Δ = 3' 12" 15.1" Gs = 3' 49" 11.0" Ls = 200.00' LT = 10.22' ST = 69.55' R = 3000' INC = 3000' SE = 0.00	-YARPA- Pts Sta 18+35.61 Δ = 3' 35" 11.2" Gs = 2' 40" 11.2" Ls = 240.00' LT = 286.27' ST = 80.05' R = 1500.00' INC = 3000' SE = 0.00	-YARPA- Pts Sta 24+34.62 Δ = 3' 38" 22.2" Gs = 3' 09" 20.4" Ls = 300.00' LT = 21.65' ST = 69.00' R = 1500.00' INC = 3000' SE = 0.00
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-YIB- Pts Sta 11+02.22 Δ = 2' 02" 15.2" Gs = 3' 49" 13.5" Ls = 200.00' LT = 10.22' ST = 69.55' R = 3000' INC = 3000' SE = 0.00	-YIB- Pts Sta 14+00.77 Δ = 3' 12" 15.1" Gs = 3' 49" 11.0" Ls = 200.00' LT = 10.22' ST = 69.55' R = 3000' INC = 3000' SE = 0.00	-YIB- Pts Sta 18+35.61 Δ = 3' 35" 11.2" Gs = 2' 40" 11.2" Ls = 240.00' LT = 286.27' ST = 80.05' R = 1500.00' INC = 3000' SE = 0.00	-YIB- Pts Sta 24+34.62 Δ = 3' 38" 22.2" Gs = 3' 09" 20.4" Ls = 300.00' LT = 21.65' ST = 69.00' R = 1500.00' INC = 3000' SE = 0.00
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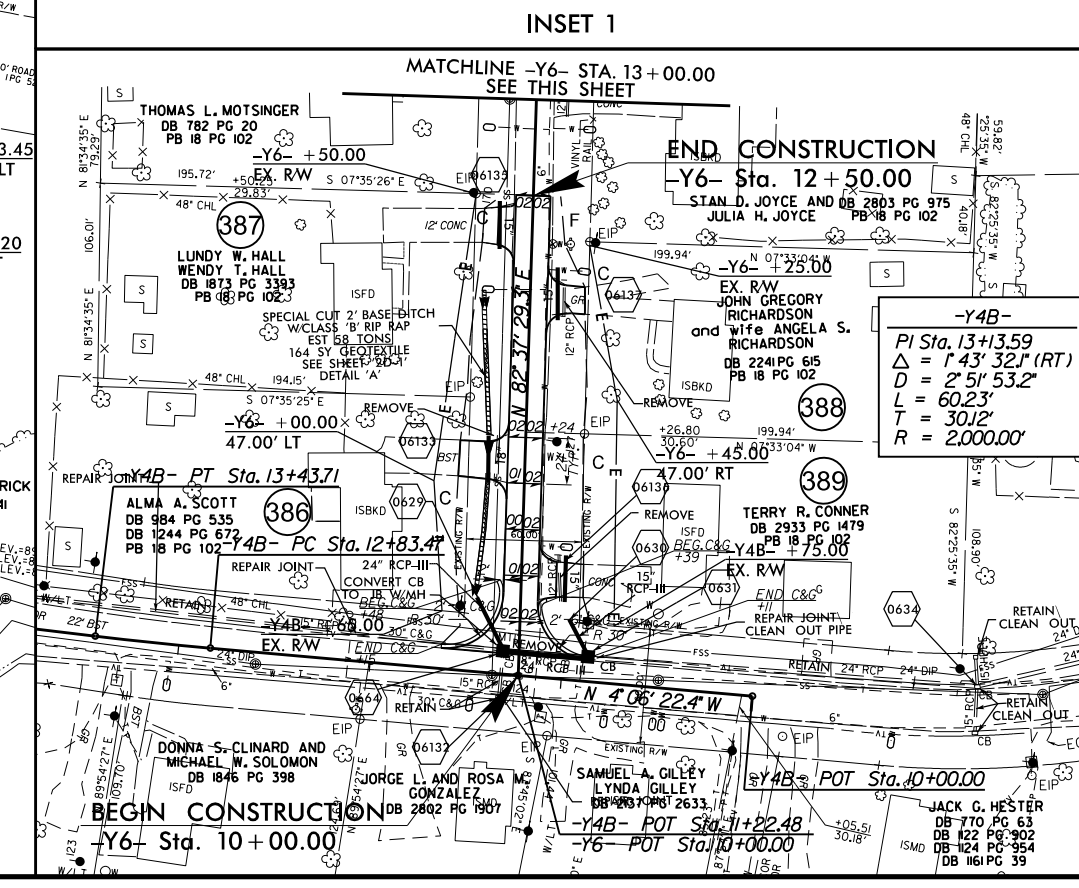
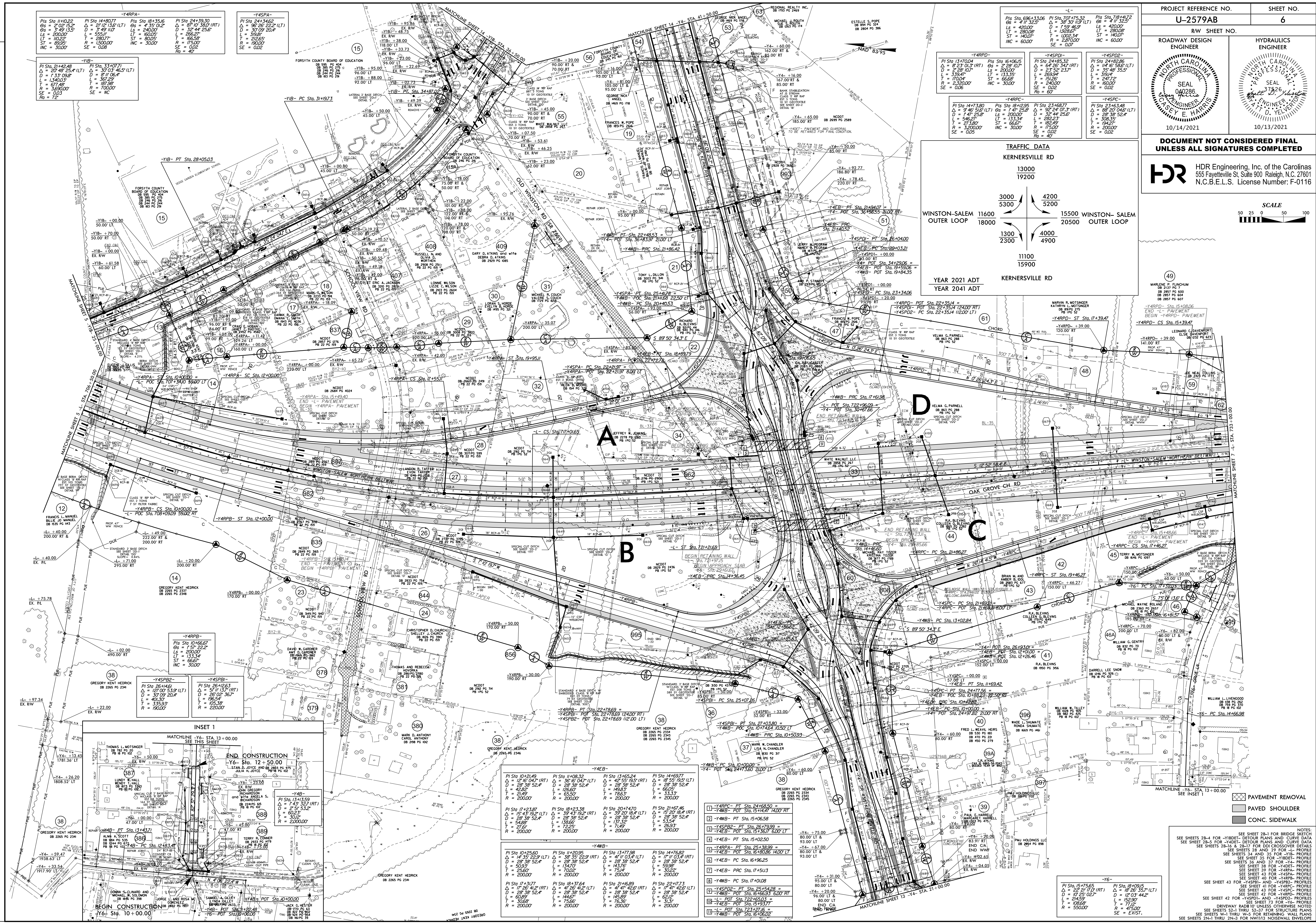
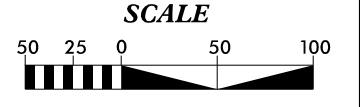
-YARPD- Pts Sta 13+70.04 Δ = 2' 21" 0.7" Gs = 2' 21" 0.7" Ls = 100.00' LT = 10.00' ST = 10.00' R = 2300.00' SE = 0.00	-YARPD- Pts Sta 16+10.65 Δ = 2' 21" 0.7" Gs = 2' 21" 0.7" Ls = 100.00' LT = 10.00' ST = 10.00' R = 2300.00' SE = 0.00	-YARPD- Pts Sta 24+85.32 Δ = 3' 30" 11.9" Gs = 3' 30" 11.9" Ls = 200.00' LT = 10.00' ST = 10.00' R = 2400.00' SE = 0.00	-YARPD- Pts Sta 28+28.26 Δ = 3' 30" 11.9" Gs = 3' 30" 11.9" Ls = 200.00' LT = 10.00' ST = 10.00' R = 2400.00' SE = 0.00
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PROJECT REFERENCE NO. U-2579AB	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
10/14/2021	10/13/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

TRAFFIC DATA			
KERNERSVILLE RD			
13000	19200	4200	5200
WINSTON-SALEM OUTER LOOP	11600	18000	15500
WINSTON-SALEM OUTER LOOP	1300	2300	4000
11100	15900		
KERNERSVILLE RD			
YEAR 2021 ADT		YEAR 2041 ADT	



-YARB- Pts Sta 10+66.67 Δ = 1' 57" 22.2" Gs = 1' 57" 22.2" Ls = 333.33' LT = 33.33' ST = 30.00' R = 3000' INC = 3000' SE = 0.00	-YASPB2- Pts Sta 26+44.61 Δ = 12' 00" 53.9" Gs = 3' 09" 20.4" Ls = 400.00' LT = 335.93' ST = 190.00' R = 1500.00'	-YASPB1- Pts Sta 26+44.61 Δ = 12' 00" 53.9" Gs = 3' 09" 20.4" Ls = 400.00' LT = 335.93' ST = 190.00' R = 1500.00'
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-YARPC- PT Sta. 24+58.50 -YANB- POT Sta. 15+06.58 -YASPB2- PT Sta. 26+44.61 -YARB- POT Sta. 15+36.17 -YARB- PT Sta. 15+02.50 -YARPA- PT Sta. 24+58.50 -YANB- POT Sta. 15+06.58 -YARB- POT Sta. 15+36.17 -YARB- PT Sta. 15+02.50	-YARPD- PT Sta. 24+85.32 -YANB- POT Sta. 16+10.65 -YASPB2- PT Sta. 26+44.61 -YARB- POT Sta. 15+36.17 -YARB- PT Sta. 15+02.50 -YARPA- PT Sta. 24+85.32 -YANB- POT Sta. 16+10.65 -YARB- POT Sta. 15+36.17 -YARB- PT Sta. 15+02.50	-YARPE- PT Sta. 28+28.26 -YANB- POT Sta. 18+35.61 -YASPB2- PT Sta. 26+44.61 -YARB- POT Sta. 15+36.17 -YARB- PT Sta. 15+02.50 -YARPA- PT Sta. 28+28.26 -YANB- POT Sta. 18+35.61 -YARB- POT Sta. 15+36.17 -YARB- PT Sta. 15+02.50	-YARPF- PT Sta. 30+17.00 -YANB- POT Sta. 20+34.62 -YASPB2- PT Sta. 26+44.61 -YARB- POT Sta. 15+36.17 -YARB- PT Sta. 15+02.50 -YARPA- PT Sta. 30+17.00 -YANB- POT Sta. 20+34.62 -YARB- POT Sta. 15+36.17 -YARB- PT Sta. 15+02.50
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NOTES:

SEE SHEET 28-4 FOR BRIDGE SKETCH

SEE SHEET 28-5 FOR -YARBET- DETOUR PLANS AND CURVE DATA

SEE SHEET 28-6 & 28-7 FOR DD CROSSOVER DETAILS

SEE SHEETS 28 AND 29 FOR -YARB- PROFILE

SEE SHEETS 34 AND 35 FOR -YIB- PROFILE

SEE SHEET 36 AND 37 FOR -YAR- PROFILE

SEE SHEET 38 FOR -YARPD- PROFILE

SEE SHEET 39 FOR -YARPA- PROFILE

SEE SHEET 40 FOR -YARPB- PROFILE

SEE SHEET 41 FOR -YARPC- PROFILE

SEE SHEET 42 FOR -YARPD- PROFILE

SEE SHEET 43 FOR -YARPE- PROFILE

SEE SHEET 44 FOR -YARPF- PROFILE

SEE SHEET 45 FOR -YARPG- PROFILE

SEE SHEET 46 FOR -YARPH- PROFILE

SEE SHEET 47 FOR -YARPI- PROFILE

SEE SHEET 48 FOR -YARPJ- PROFILE

SEE SHEET 49 FOR -YARPK- PROFILE

SEE SHEET 50 FOR -YARPL- PROFILE

SEE SHEET 51 FOR -YARPM- PROFILE

SEE SHEET 52 FOR -YARPN- PROFILE

SEE SHEET 53 FOR -YARPO- PROFILE

SEE SHEET 54 FOR -YARPP- PROFILE

SEE SHEET 55 FOR -YARPP- PROFILE

SEE SHEET 56 FOR -YARPP- PROFILE

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SEE SHEET 96 FOR -YARPP- PROFILE

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SEE SHEET 99 FOR -YARPP- PROFILE

SEE SHEET 100 FOR -YARPP- PROFILE

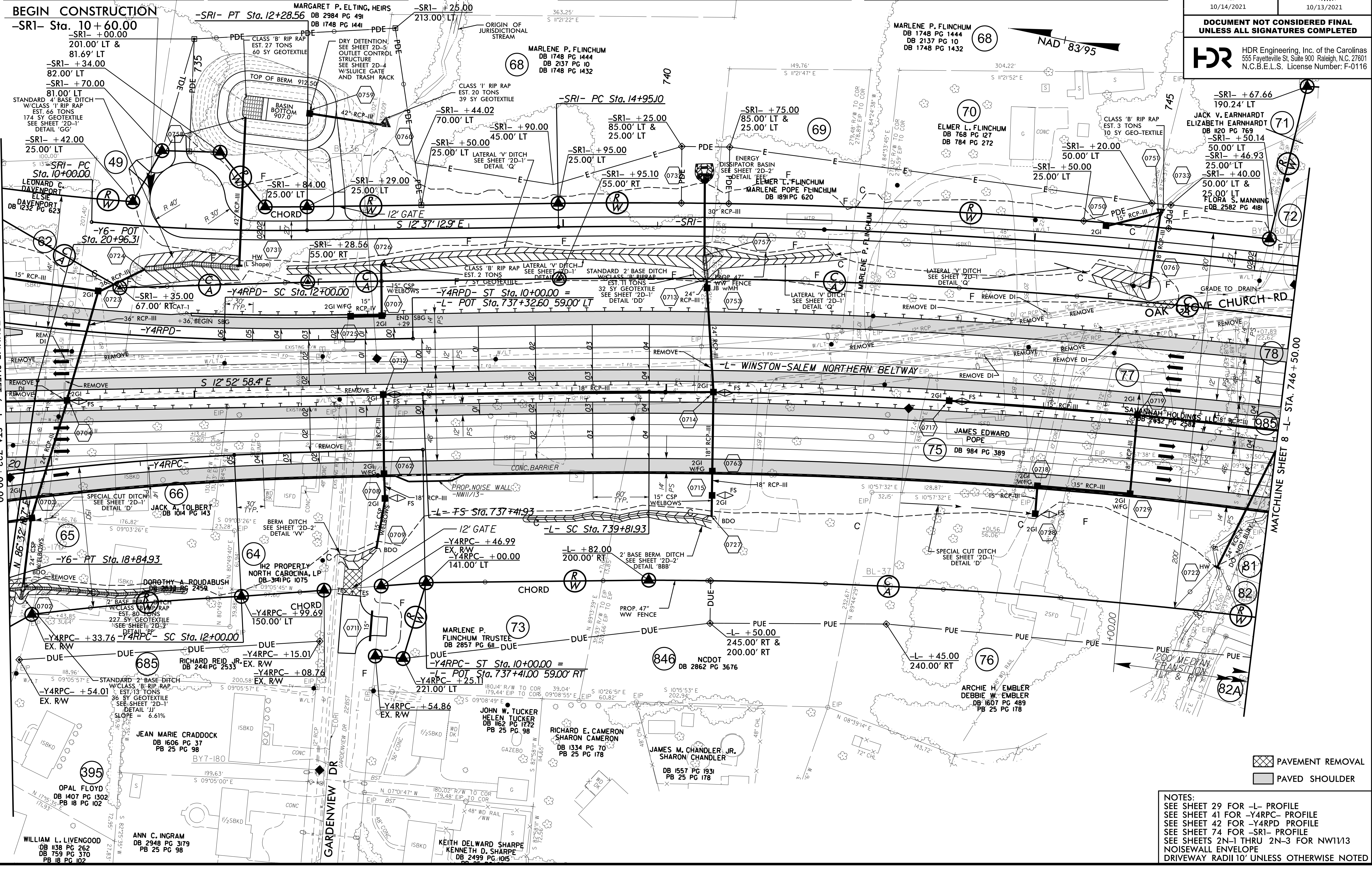
PLOT DRIVER: NCDOT...
 USER: CHARRIS...
 DATE: 10/13/2021
 TIME: 15:58:13 PM
 FILE: NCDOT\NCDOT\U2579AB\6.0.CAD\BIM\6.2.Wrk\In_Progress\U-2579AB\Roadway\Proj\U2579ab_r.dwg

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

-Y4RPC-		-Y4RPD-		-L-			-SRI-		
Pls Sta 11+33.34	PI Sta 14+73.80	Pls Sta 11+33.35	PI Sta 13+70.04	Pls Sta. 739+01.93	PI Sta. 746+86.55	Pls Sta. 754+64.16	Pl Sta 11+4.38	PI Sta 19+47.11	PI Sta 26+31.07
Δs = 1' 47" 25.8"	Δ = 9' 46" 51.5" (LT)	Δs = 2' 28" 10.7"	Δ = 8' 23" 01.3" (RT)	Δs = 1' 11" 52.2"	Δ = 13' 59" 48.4" (RT)	Δs = 1' 11" 52.2"	Δ = 5' 56" 30.1" (LT)	Δ = 8' 44" 23.3" (RT)	Δ = 5' 02" 59.0" (LT)
Ls = 200.00'	D = 1' 47" 25.8"	Ls = 200.00'	D = 2' 28" 10.7"	Ls = 240.00'	D = 0' 59" 53.5"	Ls = 240.00'	D = 2' 35" 58.7"	D = 0' 58" 07.1"	D = 1' 04" 51.8"
LT = 133.34'	L = 546.27'	LT = 133.35'	L = 339.47'	LT = 160.00'	L = 1,402.22'	LT = 160.00'	L = 228.56'	T = 902.27'	L = 467.11'
ST = 66.67'	T = 273.80'	ST = 66.68'	T = 170.04'	ST = 80.00'	T = 704.62'	ST = 80.00'	T = 114.38'	T = 452.01'	T = 233.71'
INC = 30.00'	SE = 3,200.00'	INC = 30.00'	SE = 2,320.00'	INC = 60.00'	SE = 5,740.00'	INC = 60.00'	R = 2,204.00'	R = 5,915.00'	R = 5,300.00'



BEGIN CONSTRUCTION
-SRI- Sta. 10+60.00

MATCHLINE SHEET 6 - L - STA. 733+00.00

MATCHLINE SHEET 8 - L - STA. 746+50.00

PAVEMENT REMOVAL
 PAVED SHOULDER

NOTES:
SEE SHEET 29 FOR -L- PROFILE
SEE SHEET 41 FOR -Y4RPC- PROFILE
SEE SHEET 42 FOR -Y4RPD- PROFILE
SEE SHEET 74 FOR -SRI- PROFILE
SEE SHEETS 2N-1 THRU 2N-3 FOR NW11/13
NOISEWALL ENVELOPE
DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
 USER: CHARRIS
 DATE: 10/13/2021
 TIME: 1:43:39 PM
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Wrk\In_Progress\U-2579AB\Roadway\Prj\U2579ab_rdy_dsh_07.dgn

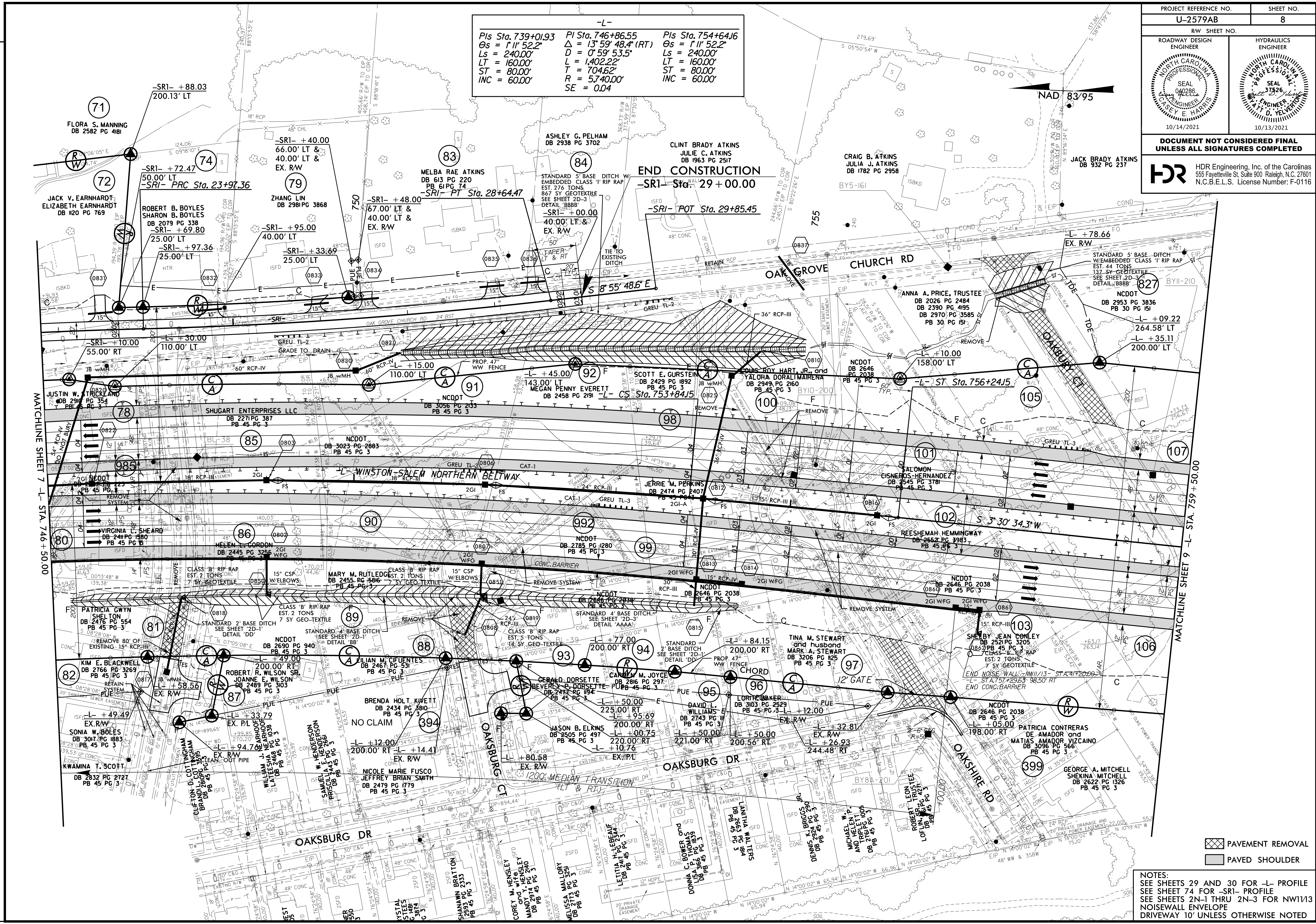
PROJECT REFERENCE NO. U-2579AB	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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UNLESS ALL SIGNATURES COMPLETED**

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

-L-

<i>Pls Sta. 739+01.93</i>	<i>Pls Sta. 746+86.55</i>	<i>Pls Sta. 754+64.16</i>
$\Theta s = 1^{\circ} 52'$	$\Delta = 13^{\circ} 59' 48.4" (RT)$	$\Theta s = 1^{\circ} 52'$
$Ls = 240.00'$	$D = 0^{\circ} 59' 53.5"$	$Ls = 240.00'$
$LT = 160.00'$	$L = 1,402.22'$	$LT = 160.00'$
$ST = 80.00'$	$T = 704.62'$	$ST = 80.00'$
$INC = 60.00'$	$R = 57,400.0'$	$INC = 60.00'$
	$SE = 0.04$	



END CONSTRUCTION
-SRI- Sta. 29+00.00

MATCHLINE SHEET 7 -L- STA. 746+50.00

MATCHLINE SHEET 9 -L- STA. 759+50.00

PAVEMENT REMOVAL
 PAVED SHOULDER

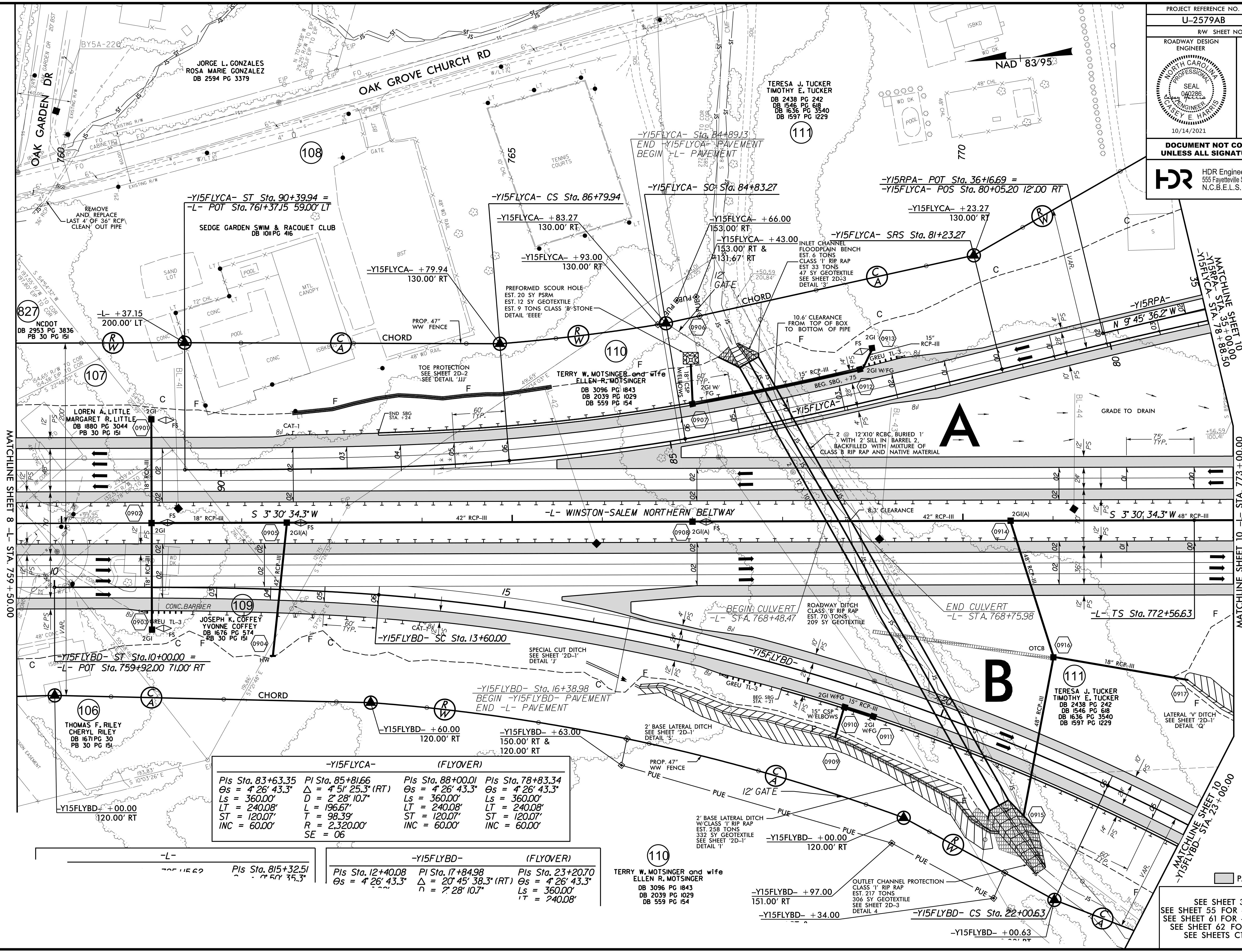
NOTES:
SEE SHEETS 29 AND 30 FOR -L- PROFILE
SEE SHEET 74 FOR -SRI- PROFILE
SEE SHEETS 2N-1 THRU 2N-3 FOR NW1/13
NOISEWALL ENVELOPE
DRIVEWAY 10' UNLESS OTHERWISE NOTED

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 DATE: 10/13/2021
 TIME: 1:45:04 PM
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.WorK.In_Progress\U-2579AB\Roadway\Prj\U2579ab_rdy_dsh_08.dgn

REVISIONS

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116



MATCHLINE SHEET 8 -L- STA. 759 + 50.00

MATCHLINE SHEET 10 -L- STA. 773 + 00.00

MATCHLINE SHEET 8 -L- STA. 759 + 50.00

MATCHLINE SHEET 10 -L- STA. 773 + 00.00

-Y15FLYCA- (FLYOVER)			
Pls Sta. 83+63.35	PI Sta. 85+81.66	Pls Sta. 88+00.01	Pls Sta. 78+83.34
Os = 4' 26" 43.3"	Δ = 4' 51" 25.3" (RT)	Os = 4' 26" 43.3"	Os = 4' 26" 43.3"
Ls = 360.00'	D = 2' 28" 10.7"	Ls = 360.00'	Ls = 360.00'
LT = 240.08'	L = 196.67'	LT = 240.08'	LT = 240.08'
ST = 120.07'	T = 98.39'	ST = 120.07'	ST = 120.07'
INC = 60.00'	R = 2,320.00'	INC = 60.00'	INC = 60.00'
	SE = 06		

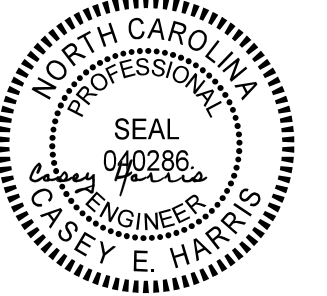
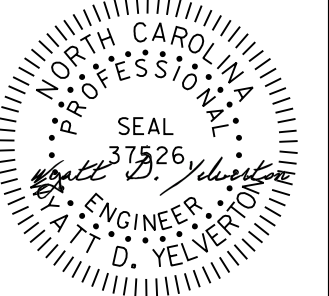

-Y15FLYBD- (FLYOVER)			
Pls Sta. 12+40.08	PI Sta. 17+84.98	Pls Sta. 23+20.70	
Os = 4' 26" 43.3"	Δ = 20' 45" 38.3" (RT)	Os = 4' 26" 43.3"	
	D = 2' 28" 10.7"	Ls = 360.00'	
		LT = 240.08'	
		ST = 120.07'	
		INC = 60.00'	

-L-	
Pls Sta. 815+32.51	Pls Sta. 815+32.51
Os = 4' 26" 43.3"	Os = 4' 26" 43.3"

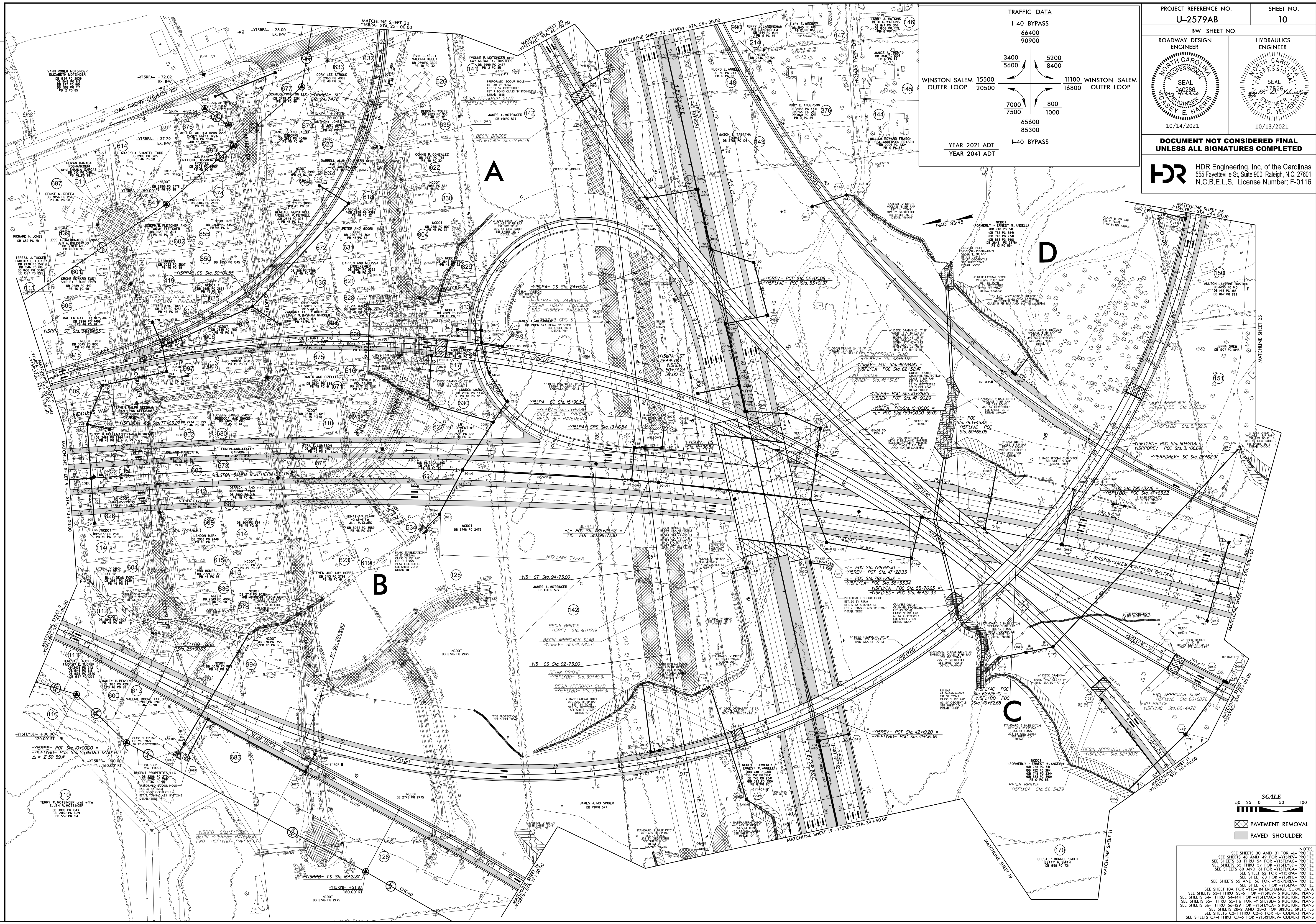
NOTES:
SEE SHEET 55 FOR -Y15FLYBD- PROFILE
SEE SHEET 61 FOR -Y15FLYCA- PROFILE
SEE SHEET 62 FOR -Y15RPA- PROFILE
SEE SHEETS C1-1 THRU C1-11 FOR CULVERT PLANS

PLOT DRIVER: NCDOT_color_eng_50.plt DATE: 8/27/2021 TIME: 2:04:07 PM
USER: SPEREIRA FILE: \

REVISIONS

PROJECT REFERENCE NO. U-2579AB		SHEET NO. 10	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
10/14/2021		10/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			

TRAFFIC DATA			
I-40 BYPASS			
6400		5200	
90900		8400	
3400	5600	11100	16800
WINSTON SALEM		WINSTON SALEM	
OUTER LOOP		OUTER LOOP	
7000	7500	800	1000
65600		85300	
YEAR 2021 ADT		I-40 BYPASS	
YEAR 2041 ADT			



SEE SHEETS 30 AND 31 FOR NOTES
 SEE SHEETS 48 AND 49 FOR -YISRE- PROFILE
 SEE SHEETS 53 THRU 54 FOR -YISFLAC- PROFILE
 SEE SHEETS 55 THRU 57 FOR -YISFLBD- PROFILE
 SEE SHEETS 60 AND 61 FOR -YISFLCA- PROFILE
 SEE SHEET 62 FOR -YISRPB- PROFILE
 SEE SHEETS 63 FOR -YISRPB- PROFILE
 SEE SHEETS 65 AND 66 FOR -YISRPB- PROFILE
 SEE SHEET 67 FOR -YISFLA- PROFILE
 SEE SHEET 10A FOR -YIS- INTERCHANGE CURVE DATA
 SEE SHEETS S3-1 THRU S3-61 FOR -YISREV- STRUCTURE PLANS
 SEE SHEETS S4-1 THRU S4-64 FOR -YISREVAC- STRUCTURE PLANS
 SEE SHEETS S5-1 THRU S5-116 FOR -YISFLBD- STRUCTURE PLANS
 SEE SHEETS S6-1 THRU S6-129 FOR -YISREVAC- STRUCTURE PLANS
 SEE SHEETS 78-2 AND 78-3 FOR BRIDGE SKETCHES
 SEE SHEETS C2-1 THRU C2-6 FOR CULVERT PLANS
 SEE SHEETS C7-1 THRU C7-6 FOR -YISRPDR- CULVERT PLANS

REVISIONS

PLOT DRIVER: NCDOT...
 USER: CHARRIS
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Wrk.In-Progress\U-2579AB\Roadway\Prj\U2579ab_r.dwg, dsh, 10.dgn