

T.I.P.: B-5831

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
YADKIN & SURRY COUNTIES

LOCATION: REPLACE BRIDGE NO.6 OVER YADKIN RIVER,
NORFOLK SOUTHERN RAILROAD,AND NC 268 ON I-77 NBL

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" -
PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C.,
DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE
CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
901.10	TYPE 'A' SIGNS
901.20	TYPE 'B' SIGNS
901.50	ARROWS AND SHIELDS
901.70	SIGN STRINGERS AND SUPPORT SPACING
901.80	SIGN MOUNTING DETAILS - FOR TYPE A AND TYPE B SIGNS
902.10	FOUNDATIONS FOR GROUND MOUNTED SIGNS
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING
904.30	SUPPLEMENTAL SIGN MOUNTING
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	0.30	C.Y.
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	1.82	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	1508.50	LB.
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM	304.27	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	129.0	L.F.
4096000000	904	SIGN ERECTION, TYPE D	2	EA.
4102000000	904	SIGN ERECTION, TYPE E	4	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	1	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	3	EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	2	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	3	EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	2	EA.

GENERAL NOTES

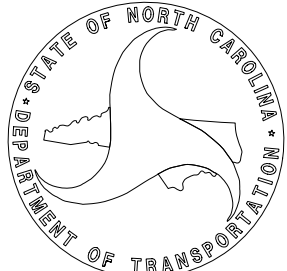
- . SIGNS FURNISHED BY STATE
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	SUPPORT INFORMATION
SIGN-3	E SHEETS
SIGN-4-4B	SIGN DESIGNS
SIGN-5	EXISTING/PROPOSED SIGN DETAIL SHEETS

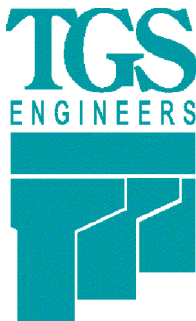
PLAN SUBMITTED TO: NCDOT

DAVID STUTTS, P.E. PROJECT ENGINEER - PEF/PROGRAM MGT.



PLAN PREPARED BY: TGS ENGINEERS

DON A. PARKER, P.E. PROJECT ENGINEER
CODA BRANNAN, E.I. DESIGN ENGINEER



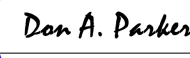
TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

TIP NO.
B-5831

SHEET NO.
SIGN-2

APPROVED:

Signed by:


750B8E9ADEF440...

DATE:

5/29/2025

SEAL



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
706 HILLSBOROUGH STREET
(SUITE 200)
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

STEEL SUPPORT CHART:

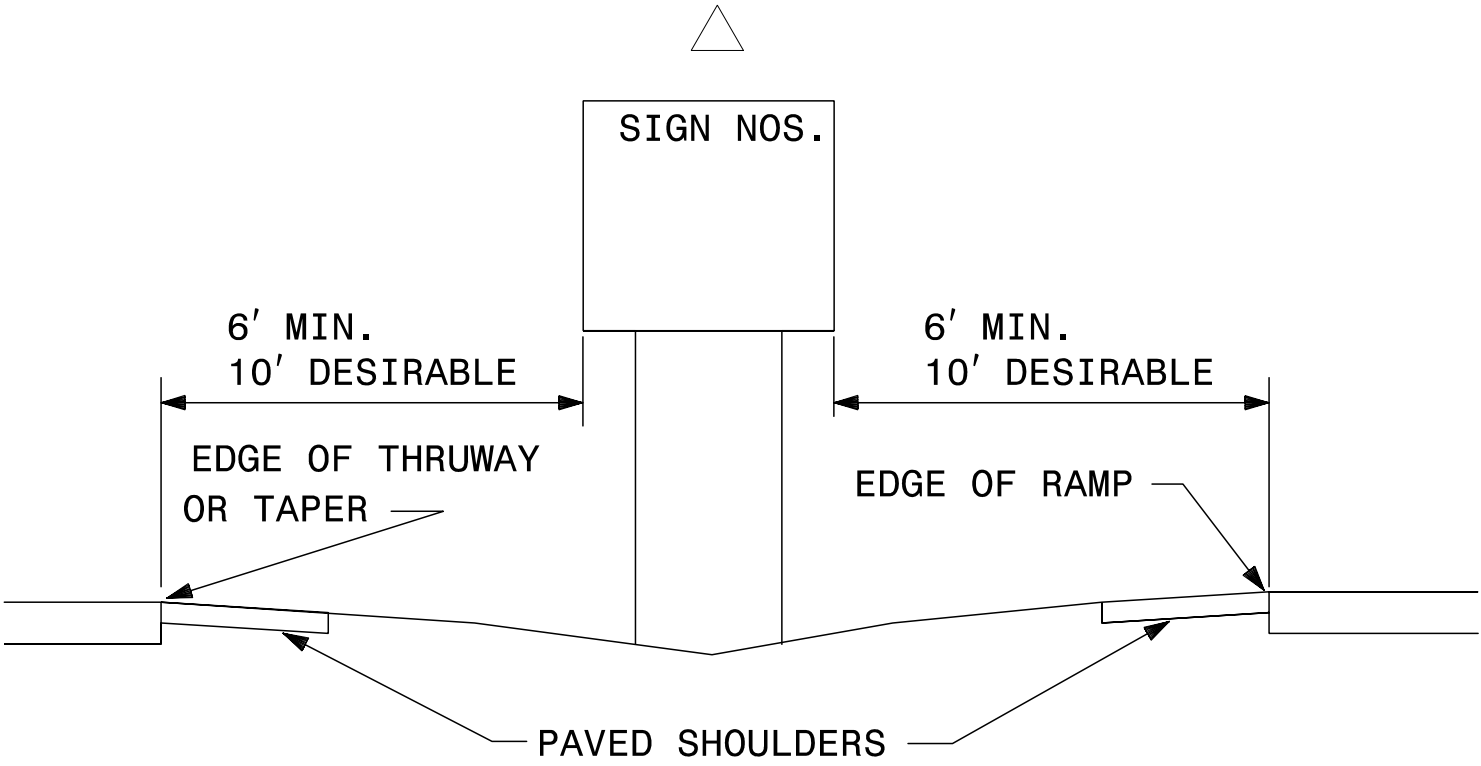
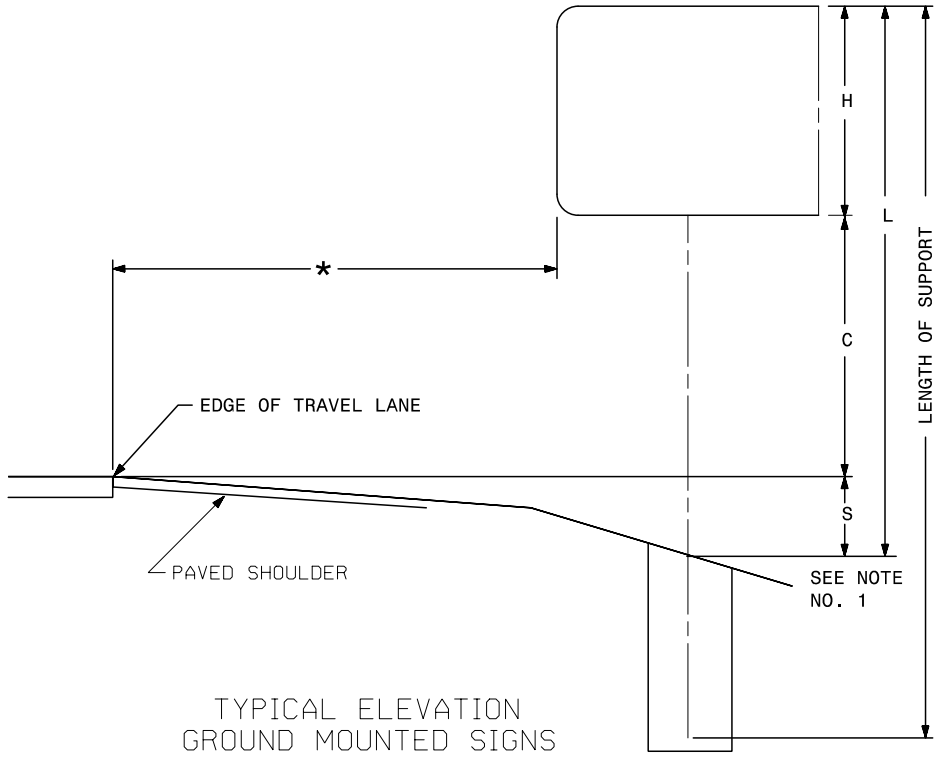
Version: 3.2

Posted: 7/5/2023

SIGN					ROADWAY STATION	NUMBER OF SUPPORTS	BEAM SECTION	SUPPORT TYPE BA or S	OMNI COUPLER	ATTACHMENT METHOD	MOUNTING METHOD	HORIZONTAL CLEARANCE* (ft.)	SUPPORT SPACING	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			SUPPORT WEIGHTS		FOOTINGS				FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
NUMBER	TYPE	SIZE (in.)												SNS HT	MTG HT	EMBED- MENT										B/A (lbs.)	SIMPLE (lbs.)	DIAMETER (ft.)	DEPTH (ft.)	REINFORCED (c.y.)	PLAIN (c.y.)	
		w	x	h										"H"	"C"																	
101	B	108	x	24	28+00.00 LT	2	S3x5.7	S	N/A	N/A	N/A	19.23	5.27	2.00	7.00	2.0	4.62	13.62	15.62	0.00	0.00	0.00	3.47	12.47	14.47	0.00	171.513	1.0	2.5	0.00	0.15	_____
102A	A	114	x	54	39+00.00 RT	2	W10x26	BA	N/A	1-L N/A	N/A N/A	33.51	8.50	10.00	10.00	4.5	1.25	21.25	25.75	0.00	0.00	0.00	-3.00	17.00	21.50	1508.50	0	2.5	5	1.82	0.00	_____
102B	A	174	x	120																												
103	B	108	x	24	37+00.00 LT	2	S3x5.7	S	N/A	N/A	N/A	23.08	5.27	2.00	7.00	2.0	0.81	9.81	11.81	0.00	0.00	0.00	0.48	9.48	11.48	0.00	132.753	1.0	2.5	0.00	0.15	_____

NOTES

1. DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF TRAVEL LANE.
2. FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (*) ARTICLE 1072-1. (*) = N.C.D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES
3. PLAN LOCATIONS FOR EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE INFORMATION AND, THEREFORE MAY NOT BE PRECISELY ACCURATE. THEREFORE, IT IS INCUMBENT UPON THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF UTILITIES BEFORE BEGINNING WORK IN A LOCATION.
4. IF GROUNDWATER IS ENCOUNTERED AT A DEPTH SHALLOWER THAN 7 FEET, THE SIGN FOUNDATION MUST BE REDESIGNED BASED UPON THE ACTUAL FIELD CONDITIONS. THE FOUNDATION DESIGN DOES NOT APPLY TO VERY SOFT OR LOOSE SOIL, MUCK, WEATHERED ROCK, OR HARD ROCK.

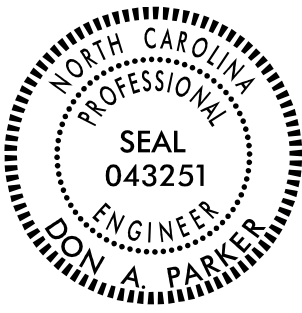


TYPE "A" AND TYPE "B"
GROUND MOUNTED SIGNS

05/29/25
X:\NC007\B-5831\Traffic\Signing\Layout\Plans\B-5831_Sgn_SGN_02.dgn
User:tcbrannen

[illegible][illegible]

SIGN DESIGNS

TIP NO.		SHEET NO.	
B-5831		SIGN-4A	
_____ (Signed by: <u>Don A. Parker</u>) 75B09000ADE440.			
APPROVED:		_____	
DATE: 5/29/2025		_____	
SEAL 			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 TGS ENGINEERS 206 HILLSBOROUGH STREET (SUITE 200) RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275			

SIGN DESIGNS

TIP NO.
B-5831

SHEET NO.
SIGN-5

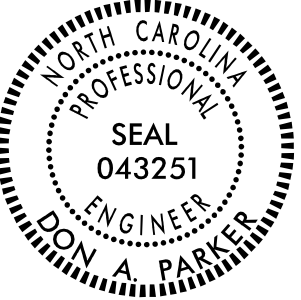
Signed by:
Don A. Parker
750B9690ADEF440...

APPROVED:

5/29/2025

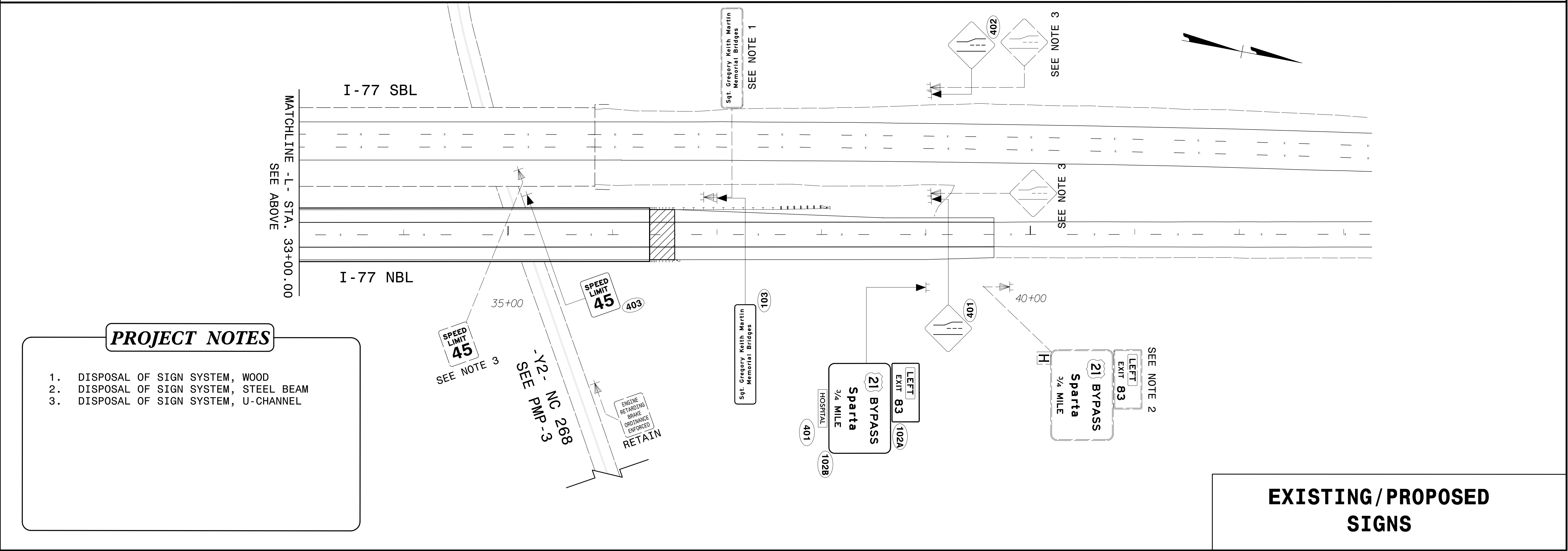
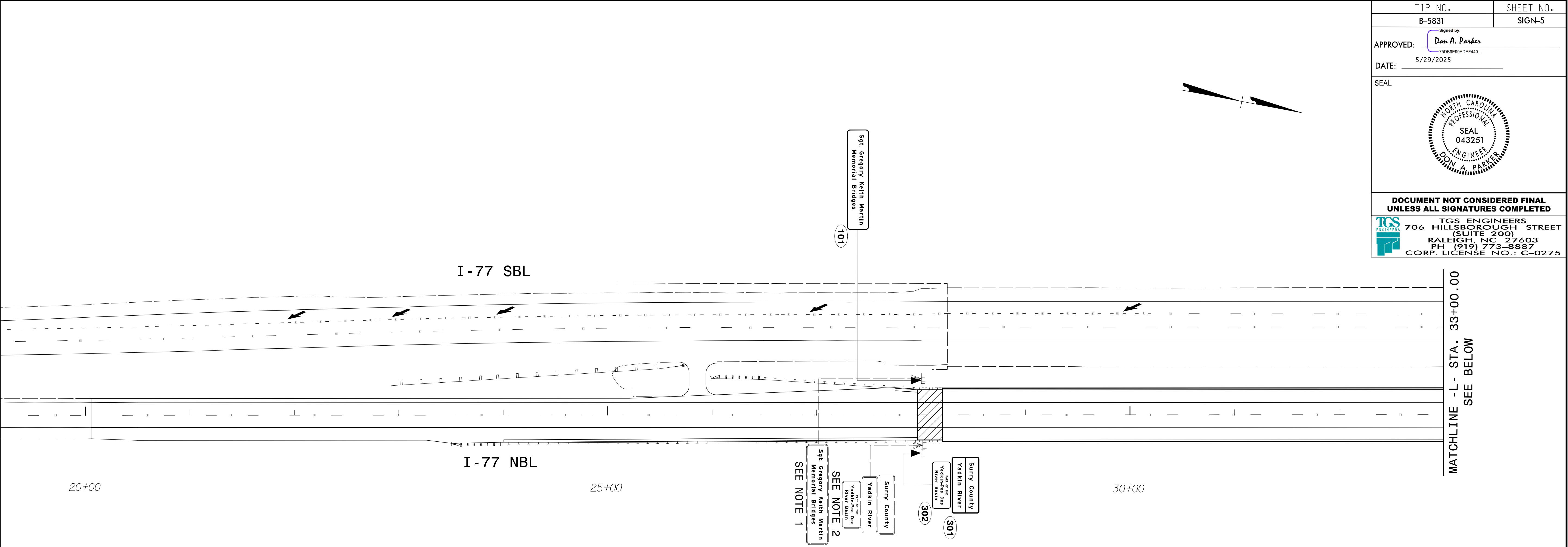
DATE:

SEAL



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

 TGS ENGINEERS
706 HILLSBOROUGH STREET
(SUITE 200)
RALEIGH, NC 27603
PH: (919) 773-8887
CORP. LICENSE NO.: C-0275



05/29/25
X:\N0007\B-5831\Traffic\Signing\CA00\Signing Layout Plans\B-5831_Sgn-SON_05.dgn
User:cbrennan