



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

July 12, 2022

Addendum No. 1

RE: Contract # C204728

WBS # 47533.3.3

STATE FUNDED

Robeson County (I-5987B)

I-95 FROM SOUTH OF NC-20 TO SOUTH OF PROPOSED I-295.

July 19, 2022 Letting

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on this project.

The following revisions have been made to the Traffic Management plans.

Sheet No.	Revision
TMP-3P	Step 1.A.5 revised to Step 1.A.4.

Please void the above listed Sheet in your plans and staple the revised Sheet thereto.

The following revisions have been made to the Signing plans.

Sheet No.	Revision
SIGN-29 thru SIGN-44 (New)	Added Trailblazer Signs.

Please add the above listed Sheets in your plans.

Staple New Sheets SIGN-29 thru SIGN-44 after SIGN-28 in your plans.

The following revisions have been made to the Structures plans.

Sheet No.	Revision
S4-29 (New)	Bridge Approach Slabs Detail sheet added.

Please add the above listed Sheet in your plans.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT
1591 MAIL SERVICE CENTER
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900
Fax: (919) 250-4127
Customer Service: 1-877-368-4968

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

Website: www.ncdot.gov

Staple New Sheet S4-29 after Sheet S4-28 in your plans.

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 7-12-2022"
Table of Contents	Page numbers updated.
G-1	Project Special Provision entitled INTERESTED PARTIES LIST was revised. 102-3 PROPOSALS AND INTERESTED PARTIES LIST section revised.
G-9	Project Special Provision entitled SPECIALTY ITEMS was revised to show new items.
G-51	New Project Special Provision entitled AWARD OF CONTRACT was added.
LT-11	Unit Project Special Provision entitled LIGHTING revised. "ELECTRICAL SERVICE" provision was added.
EC-35	Unit Project Special Provision entitled EROSION CONTROL revised. "LITTER REMOVAL (MOWING AREAS ONLY)" provision was added.
EC-36 thru EC-37 (New)	Unit Project Special Provision entitled EROSION CONTROL revised. "LITTER REMOVAL (MOWING AREAS ONLY)" provision was added. "TACK FOR MULCH FOR EROSION CONTROL" provision was added.

Please void the above listed existing Pages in your proposal and staple the revised Pages thereto.

Staple New Pages EC-36 thru EC-37 after new EC-35 in your proposal.

On the item sheets the following pay item revisions have been made:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0034-0345000000-E-310	24" SIDE DRAIN PIPE	328 LF	380 LF
0037-0348000000-E-310	24" SIDE DRAIN PIPE ELBOWS	52 EA	DELETED
0087-1121000000-E-520	AGGREGATE BASE COURSE	10,600 TONS	1,200 TONS
0161-4048000000-E-902	REINFORCED CONCRETE SIGN FOUNDATIONS	12 CY	13 CY
0164-4060000000-E-903	SUPPORTS, BREAKAWAY STEEL BEAM	14,328 LB	14,779 LB

0165-4072000000-E-903	SUPPORTS, 3-LB STEEL U-CHANNEL	2,130 LF	2,354 LF
0187-4110000000-N-904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	10 EA	11 EA
0369-7980000000-N-SP	PCMS (IM)	3 EA	15 EA
0370-7980000000-N-SP	PORTABLE CCTV CAMERA ASSEMBLY	2 EA	7 EA
0453-4025000000-E-901	CONTRACTOR FURNISHED, TYPE A SIGN	NEW ITEM	67.5 SF
0454-4025000000-E-901	CONTRACTOR FURNISHED, TYPE D SIGN	NEW ITEM	19 SF
0455-4025000000-E-901	CONTRACTOR FURNISHED, TYPE F SIGN	NEW ITEM	87.5 SF
0456-4110000000-N-904	SIGN ERECTION, TYPE F (GROUND MOUNTED)	NEW ITEM	10 EA
0457-4116100000-N-904	SIGN ERECTION, RELOCATE TYPE F (GROUND MOUNTED)	NEW ITEM	6 EA
0458-4192000000-N-907	DISPOSAL OF SUPPORT, U-CHANNEL	NEW ITEM	6 EA
0459-6114800000-N-SP	MANUAL LITTER REMOVAL	NEW ITEM	165 MHR
0460-6114900000-E-SP	LITTER DISPOSAL	NEW ITEM	15 TONS

The Contractor's bid must include these pay item revisions.

The electronic bidding file has been updated to reflect these revisions. Please download the Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:
Ronald Elton Davenport, Jr.
F81B6038A47A442...

Ronald E. Davenport, Jr., PE
State Contract Officer

RED/cms

Attachments

cc: Mr. Lamar Sylvester, PE
Mr. H. L. "Drew" Cox, PE
Ms. Lori Strickland
Mr. Boyd Tharrington, PE
Mr. Jon Weathersbee, PE
Mr. Ken Kennedy, PE
Project File (2)

Mr. Forrest Dungan, PE
Ms. Jaci Kincaid
Mr. Kyle Kempf
Mr. Mike Gwyn
Ms. Penny Higgins

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 07-12-2022

DATE AND TIME OF BID OPENING: **Jul 19, 2022 AT 02:00 PM**

CONTRACT ID C204728
WBS 47533.3.3

FEDERAL-AID NO. STATE FUNDED
COUNTY ROBESON
T.I.P NO. I-5987B
MILES 7.956
ROUTE NO. I-95
LOCATION I-95 FROM SOUTH OF NC-20 TO SOUTH OF PROPOSED I-295.

TYPE OF WORK GRADING, DRAINAGE, PAVING, RETAINING WALLS, AND STRUCTURES.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

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PROPOSAL ITEM SHEET

ITEM SHEET(S) (TAN SHEETS)

PROJECT SPECIAL PROVISIONS**GENERAL****INTERESTED PARTIES LIST:**

(6-21-22)(Rev. 7-19-22)

102

SP1 G02

Revise the *2018 Standard Specifications* as follows:

Page 1-12, Article 102-3 PROPOSALS AND PLAN HOLDER LISTS, lines 45-49, delete and replace with the following:

102-3 PROPOSALS AND INTERESTED PARTIES LIST

On Department projects advertised, the prospective bidder shall sign up on the *Interested Parties List* no later than one business day prior to the Letting day of that project, for which he intends to submit a bid. There is no cost for signing up on the *Interested Parties List* that can be found on the Department's website at connect.ncdot.gov/letting.

Page 1-12, Article 102-3 PROPOSALS AND PLAN HOLDER LISTS, lines 1-3, delete and replace the first sentence of the second paragraph with the following:

The proposal will state the location of the contemplated construction and show a schedule of contract items with the approximate quantity of each of these items for which bid prices are invited.

Page 1-14, Article 102-8 PREPARATION AND SUBMISSION OF BIDS, lines 30-31, delete and replace the first paragraph with the following:

Prior to submitting a bid on a project, the bidder shall sign up on the *Interested Parties List* in conformance with Article 102-3. The bidder shall submit a unit or lump sum price for every item in the proposal other than items that are authorized alternates to those items for which a bid price has been submitted.

CONTRACT TIME AND LIQUIDATED DAMAGES:

(8-15-00) (Rev. 12-18-07)

108

SP1 G07 A

The date of availability for this contract is **August 29, 2022**, except that work in jurisdictional waters and wetlands shall not begin until a meeting between the DOT, Regulatory Agencies, and the Contractor is held as stipulated in the permits contained elsewhere in this proposal. This delay in availability has been considered in determining the contract time for this project.

The completion date for this contract is **May 14, 2027**.

Except where otherwise provided by the contract, observation periods required by the contract will not be a part of the work to be completed by the completion date and/or intermediate contract times stated in the contract. The acceptable completion of the observation periods that extend beyond the final completion date shall be a part of the work covered by the performance and payment bonds.

SPECIALTY ITEMS:

(7-1-95)(Rev. 7-20-21)

108-6

SP1 G37

Items listed below will be the specialty items for this contract (see Article 108-6 of the 2018 Standard Specifications).

Line #	Description
145-153	Guardrail
154-156	Fencing
161-192, 453-458	Signing
221-228, 236-237, 244-245	Long-Life Pavement Markings
229	Removable Tape
246-247	Permanent Pavement Markers
248-272, 274	Lighting
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340-373	Signals/ITS System
411, 413-415	Drilled Piers

FUEL PRICE ADJUSTMENT:

(11-15-05) (Rev. 7-20-21)

109-8

SP1 G43

Revise the 2018 Standard Specifications as follows:

Page 1-87, Article 109-8, Fuel Price Adjustments, add the following:

The base index price for DIESEL #2 FUEL is \$ **4.1485** per gallon. Where any of the following are included as pay items in the contract, they will be eligible for fuel price adjustment.

The pay items and the fuel factor used in calculating adjustments to be made will be as follows:

Description	Units	Fuel Usage Factor Diesel
Unclassified Excavation	Gal/CY	0.29
Borrow Excavation	Gal/CY	0.29
Class IV Subgrade Stabilization	Gal/Ton	0.55
Aggregate Base Course	Gal/Ton	0.55
Sub-Ballast	Gal/Ton	0.55
Asphalt Concrete Base Course, Type _____	Gal/Ton	0.90 or 2.90
Asphalt Concrete Intermediate Course, Type _____	Gal/Ton	0.90 or 2.90
Asphalt Concrete Surface Course, Type _____	Gal/Ton	0.90 or 2.90
Open-Graded Asphalt Friction Course	Gal/Ton	0.90 or 2.90
Permeable Asphalt Drainage Course, Type _____	Gal/Ton	0.90 or 2.90
Sand Asphalt Surface Course, Type _____	Gal/Ton	0.90 or 2.90
Aggregate for Cement Treated Base Course	Gal/Ton	0.55
Portland Cement for Cement Treated Base Course	Gal/Ton	0.55
___ " Portland Cement Concrete Pavement	Gal/SY	0.245
Concrete Shoulders Adjacent to ___ " Pavement	Gal/SY	0.245

wetland surfaces from suspended clay particles, occurring after evaporation or infiltration, does not constitute sedimentation. No activities shall occur in wetlands that adversely affect the functioning of a wetland. Visible sedimentation will be considered an indication of possible adverse impacts on wetland use.

The Engineer will perform independent turbidity tests on a random basis. These results will be maintained in a log within the project records. Records will include, at a minimum, turbidity test results, time, date and name of sampler. Should the Department's test results exceed those of the Contractor's test results, an immediate test shall be performed jointly with the results superseding the previous test results of both the Department and the Contractor.

The Contractor shall use the *NCDOT Turbidity Reduction Options for Borrow Pits Matrix*, available at <https://connect.ncdot.gov/resources/roadside/FieldOperationsDocuments/TurbidityReductionOptionSheet.pdf> to plan, design, construct, and maintain BMPs to address water quality standards. Tier I Methods include stilling basins which are standard compensatory BMPs. Other Tier I methods are noncompensatory and shall be used when needed to meet the stream turbidity standards. Tier II Methods are also noncompensatory and are options that may be needed for protection of rare or unique resources or where special environmental conditions exist at the site which have led to additional requirements being placed in the DWQ's 401 Certifications and approval letters, Isolated Wetland Permits, Riparian Buffer Authorization or a DOT Reclamation Plan's Environmental Assessment for the specific site. Should the Contractor exhaust all Tier I Methods on a site exclusive of rare or unique resources or special environmental conditions, Tier II Methods may be required by regulators on a case by case basis per supplemental agreement.

The Contractor may use cation exchange capacity (CEC) values from proposed site borings to plan and develop the bid for the project. CEC values exceeding 15 milliequivalents per 100 grams of soil may indicate a high potential for turbidity and should be avoided when dewatering into surface water is proposed.

No additional compensation for monitoring borrow pit discharge will be paid.

AWARD OF CONTRACT:

Revise the 2018 *Standard Specifications* as follows:

Page 1-23, Subarticle 103-4 (A) General, first paragraph, replace the 3rd and 4th sentences with the following:

Where award is to be made, the notice of award will be issued within 60 days after the opening of bids or upon issuance of any necessary debt instrument, whichever is later, but not to exceed 120 days; except with the consent of the lowest responsible bidder the decision to award the contract to such bidder may be delayed for as long a time as may be agreed upon by the Department and such bidder. In the absence of such agreement, the lowest responsible bidder may withdraw his bid at the expiration of 120 days without penalty if no notice of award has been issued.

Payment will be made under:

Remove Single Arm Fiberglass Light Pole - Dispose Each

5.00 ELECTRICAL SERVICE

Replace the first paragraph of Article 1400-9 of the 2018 Standard Specifications with the following:

Coordinate electrical power requirements shown on the plans with the local utility. Affirmation from the local utility that the utility will provide electrical power of the proper voltage, phase, frequency and ampacity required to complete the project as shown in plans must be presented in writing to the Engineer prior to the Contractor procuring and making payment for any lighting equipment affected by electrical power.

Upon affirmation from the local utility that the operating voltage and phase shown on the plans will be provided, the Contractor shall make application and pay all deposits and other costs to provide the required electrical service. The Contractor will be reimbursed for the actual verified cost of any utility company charges.

In the event that the local utility cannot provide electrical power of the voltage and phase shown on the plans, the Department will redesign the lighting system(s) using the available voltage and phase, and issue revised lighting plans. Where affirmation from the local utility is not provided to the Engineer prior to the Contractor procuring and paying for lighting equipment, no reimbursement or compensation will be provided for modifications or any additional lighting equipment required to complete the work shown in the revised lighting plans.



DocuSigned by:
Roger C. Kluckman
A47FB0E0B26E420...

05/31/2022

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Maintenance of the device, cleanout and disposal of accumulated sediments shall be paid for by *Fabric Insert Inlet Protection Device Cleanout*.

Payment will be made under:

Pay Item	Pay Unit
Fabric Insert Inlet Protection Device	Each
Fabric Insert Inlet Protection Device Cleanout	Each

LITTER REMOVAL (MOWING AREAS ONLY):

(07-19-22)

Description

This work consists of the pickup, removal, and disposal of litter from roadsides within the construction project prior to mowing operations.

Construction Methods

Provide labor, equipment and materials necessary for the pickup and removal of litter from non-construction sources and the disposal of same into state approved landfills. The Contractor shall abide by all ordinances, laws and regulations regarding disposal of litter and recycling of eligible materials. Wastes generated from construction activities shall be managed as provided elsewhere in the contract. Litter items may consist of any item not considered normal to the right-of-way, including but not limited to, varied sizes of bottles, cans, paper, tires, tire pieces, lumber, vehicle parts, building supplies, metals, household furnishings, cardboard, plastics, ladders, brush and other items not considered normal to the right of way. Litter removal shall be performed in designated areas within five days prior to any mowing operations and as directed. Designated areas shall include vegetated medians and shoulders within the project limits including all interchange ramps and other areas to be mown. Designated areas may be omitted for litter removal by the Engineer due to safety concerns.

The Contractor shall provide adequate personnel and materials to collect and remove litter. The Contractor shall be responsible for locating and utilizing approved local landfills and recycling facilities. Refer to Section 105-27 of the *Standard Specifications* for potential hazardous materials. All collected litter shall be containerized immediately and kept off the traveled portions of the roadway, shoulders, and rights-of-way (including paved shoulders). All collected litter that is small enough to be placed in a bag shall be bagged immediately. All collected litter that is too large for a bag shall be placed into a vehicle. Extended storage or stockpiling of collected litter and recyclables will not be permitted.

The Contractor's personnel shall dispose of any litter in a landfill approved by North Carolina Division of Waste Management. The Contractor will not be allowed to use NCDOT accounts at the landfills/recycling centers nor be allowed to dispose of the litter in NCDOT trash containers on any NCDOT property.

The Contractor shall report online the number of bags of litter and any recycling on the NCDOT Litter Management Website on the date of the pickup at the following website:

<https://apps.ncdot.gov/LM>

An access code ('Pickup Key') for the online reporting portal may be obtained via emailing the Roadside Environmental Unit Litter Management Section at ncdot.clr@ncdot.gov. The Contractor shall request access to the litter removal reporting website prior to starting initial litter collection operations.

Measurement and Payment

The quantity of litter removal to be performed will be affected by the actual conditions that occur during construction of the project. The quantity of litter removal may be increased, decreased, or eliminated entirely as directed. Such variations in quantity will not be considered as alterations in the details of construction or a change in the character of the work.

Manual Litter Removal will be measured and paid as the actual number of man hours each worker spends picking up litter. Such price and payment will be full compensation for all litter removal work covered by *Litter Removal*, including, but not limited to, furnishing all materials, labor, equipment, transport, reporting, and incidentals necessary to accomplish the work.

Litter Disposal will be measured and paid for by the actual number of tons of litter collected and properly disposed of at a state approved landfill. Such price and payment will be full compensation for all fees, labor, transport, and incidentals necessary to dispose of collected litter associated with *Litter Removal*.

All traffic control necessary to provide a safe work area for *Litter Removal* shall be paid for as specified elsewhere in the contract.

Payment will be made under:

Pay Item	Pay Unit
Manual Litter Removal	MHR
Litter Disposal	TON

TACK FOR MULCH FOR EROSION CONTROL:

(07-19-22)

Description

This work consists of supplying and installing of an approved material for binding mulch for erosion control in accordance with Section 1060-5, Section 1615 and Section 1660 of the *Standard Specifications*. This provision defines acceptable materials and rates for tacking material for holding mulch in place.

Materials

(a) Emulsified Asphalt

Asphalt emulsion tack shall conform to the requirements of AASHTO M 140, Specification for Emulsified Asphalt. The emulsified asphalt may be rapid setting, medium setting, or slow setting. Apply emulsified asphalt tackifier at a rate of 0.10 gallons per square yard (approximately 484 gallons per acre).

(b) Cellulose Hydromulch

Cellulose hydromulch products shall be non-toxic, weed-free, prepackaged cellulose fiber (pulp) material containing no more than 3% ash or other inert materials. Cellulose hydromulches may contain dyes or binders specifically formulated to enhance the adhesive qualities of the hydromulch. Apply cellulose hydromulches at a rate of 1000 pounds (dry weight) per acre.

Wood fiber or wood fiber blend hydromulches may be substituted for cellulose hydromulch at the same application rate.

(c) Other tackifiers

Other approved materials, specifically designed and manufactured for application as a straw mulch tacking agent, may be used at the manufacturer's recommended rate.

Construction Methods

Apply the Tack for Mulch for Erosion Control uniformly across straw mulch per Section 1615 and Section 1660 of the *Standard Specifications*.

Payment

Tack for Mulch for Erosion Control is incidental to the application of *Temporary Mulching*, Section 1615-4, and *Seeding and Mulching*, Section 1660-8, and no additional payment will be made.

PHASE III

SECTION 1 - -L- STA 465+00 TO STA 650+00, -Y4- AND -Y5

4. USING RSD 1101.02, SHEET 4 OF 14 AS NEEDED ON THE INSIDE SHOULDER OF NB -L-, PLACE THE FOLLOWING:
- * TEMPORARY PCB FROM STA 495+00+/- TO STA 553+65+/- AS SHOWN ON TMP-64 THRU TMP-69
 - * TEMPORARY ANCHORED PCB WITH GLARE SCREENS:
 - FROM STA 595+00+/- TO STA 600+30+/- AS SHOWN ON TMP-72
 - FROM STA 633+00+/- TO STA 638+07+/- AS SHOWN ON TMP-76
 - * TEMPORARY PCB WITH GLARE SCREENS FROM STA 638+07+/- TO STA 641+30+/- AS SHOWN ON TMP-76
- USING RSD 1101.02, SHEET 4 OF 14 AS NEEDED, PLACE TEMPORARY PCB ON OUTSIDE SHOULDER OF NB -L- FROM STA 646+50+/- TO STA 650+00+/- AT APPROACH TO PCB IN SECTION 2 AS NEEDED (TMP-77)
- B. 1. USING RSD 1101.02, SHEET 4 OF 14 AS NEEDED, RESET TEMPORARY PCB AND CRASH CUSHION ON THE INSIDE SHOULDER OF SB -L- THE PHASE II TRAFFIC PATTERN TO THE PHASE III TEMPORARY TRAFFIC PATTERN FOR SB -L- FROM 628+17+/- TO STA 641+50+/- AS SHOWN ON TMP-75 AND TMP-76 AND REMOVE TEMPORARY PCB FROM STA 641+50+/- TO STA 650+00+/- (TMP-58 & TMP-59)
2. USING RSD 1101.02, SHEET 4 AND 10 OF 14 AS NEEDED, PLACE TEMPORARY PAVEMENT MARKINGS ON SB -L- FROM 627+34+/- TO STA 650+00+/- AS SHOWN ON TMP-75 THRU TMP-77 AND SHIFT TRAFFIC ON SB -L- TO NEW TRAFFIC PATTERN (IN COORDINATION WITH SB -L- OF SECTION 2)
3. USING RSD 1101.02, SHEET 4 AND 14 AS NEEDED, PLACE TEMPORARY PCB ON THE OUTSIDE SHOULDER OF SB -L- AS SHOWN ON TMP-76 AND TMP-77
- C. 1. BEHIND BARRIER PLACE THE FOLLOWING:
- * TEMPORARY BARRIER ON OUTSIDE SHOULDER OF SB -L- FROM STA 513+57+/- TO STA 516+50+/- AS SHOWN ON TMP-65
 - * TEMPORARY ANCHORED PCB ON INSIDE SHOULDER OF SB -L- PHASE III PATTERN TRAFFIC PATTERN FROM STA 537+00+/- TO STA 567+50+/- AS SHOWN ON TMP-67 THRU TMP-70
 - * TEMPORARY PCB ON THE OUTSIDE SHOULDER OF SB -L- FROM STA 572+80+/- TO STA 577+00+/- AS SHOWN ON TMP-70
 - * TEMPORARY PAVEMENT MARKINGS ON SB -L- FROM STA 537+00+/- TO STA 572+00+/- AS SHOWN ON TMP-67 THRU TMP-70
2. USING RSD 1101.02, SHEET 4 OF 14 AS NEEDED, REMOVE TEMPORARY PCB ON THE OUTSIDE SHOULDER OF SB -L- OF THE PHASE II PATTERN FROM STA 495+00+/- TO STA 534+50+/- (TMP-36 THRU TMP-39)
3. USING RSD 1101.02, SHEET 4 OF 14 AS NEEDED, PERFORM THE FOLLOWING:
- a. REMOVE TEMPORARY PCB ON THE OUTSIDE SHOULDER OF SB -L- FROM STA 569+00+/- TO STA 577+00+/- AND PLACE A CRASH CUSHION/TMA AT 569+00+/-
 - b. SHIFT TEMPORARY PCB ON THE OUTSIDE SHOULDER OF THE PHASE II PATTERN OF SB -L- FROM STA 577+00+/- TO STA 581+00+/- TO THE OUTSIDE SHOULDER OF THE PHASE III PATTERN (TMP-71)
 - c. PLACE TEMPORARY PAVEMENT MARKINGS ON SB -L- AT THE FOLLOWING:
 - * FROM STA 495+00+/- TO STA 537+00+/- AS SHOWN ON TMP-64 THRU TMP-67
 - * FROM STA 572+00+/- TO STA 585+42+/- AS SHOWN ON TMP-70 AND TMP-71
- SHIFT SB -L- TO NEW TEMPORARY TRAFFIC PATTERN
- RESET TEMPORARY PCB ON THE INSIDE SHOULDER OF (PHASE III) SB -L- FROM STA 567+50+/- TO STA 569+00+/- (TMP-70 & TMP-71)
4. USING RSD 1101.02, SHEET 4 OF 14 AS NEEDED, ON THE INSIDE SHOULDER OF SB -L-:
- * PLACE TEMPORARY ANCHORED PC FROM STA 537+00+/- TO STA 495+00+/- AS SHOWN ON TMP-64 THRU TMP-67
 - * RESET TEMPORARY PCB FROM STA 569+00+/- TO 585+42+/- AS SHOWN ON TMP-70 THRU TMP-71

PHASE III, SECTION 1, STEP 1 CONTINUED ON TMP-3Q

SECTION 2 - -L- FROM STA 650+00 TO STA 915+07, -Y1B-, -Y6- AND -Y7-

- STEP 3: BEHIND PCB AND USING RSD 1101.02, SHEET 4 OF 14 WHERE NECESSARY,
- CONSTRUCT NBL OUTSIDE FROM 650+00± TO 785+00± AND SBL OUTSIDE FROM 650+00± TO 774+50± AND INSIDE NBL 785+00± TO 905+00± INCLUDING ALL NECESSARY DRAINAGE
 - CONSTRUCT STAGE TWO OF CULVERT AT 677+00± (OUTSIDE BOTH DIRECTIONS) (SEE TMP-239)
 - CONSTRUCT STAGE ONE OF CULVERT AT 708+50± (OUTSIDE BOTH DIRECTIONS) (SEE TMP-241)
 - CONSTRUCT STAGE 2 OF I-95 BRIDGE OVER LITTLE MARSH SWAMP AND APPROACHES AS SHOWN. (SEE TMP-250)
 - INSTALL TEMPORARY SHORING AND CONSTRUCT STAGE 2 OF CULVERT AT 902+30± (MEDIAN NBL) (SEE TMP-258)
- STEP 4: USING RSD 1101.02, SHEET 4 OF 14, CONSTRUCT CROSS OVER AT THE NORTH END OF THE PROJECT AS SHOWN. (SEE RDWY PLANS)

END PHASE III, SECTION 2

7/7/2022 G:\50100191\NV5_1-5987B\TrafficControl\Tc\200_083_1-5987B-TMP-3P_Phase III.220315.dgn User:ST086227


PLANS PREPARED FOR THE NCDOT BY:

M MOTT MACDONALD 1 & E, LLC
1101 HAYNES STREET, SUITE 101
RALEIGH, NC 27604

M MOTT MACDONALD NC LICENSE NO. F-0669

APPROVED: *Lori D. Stoucho*
FF586C758C845A

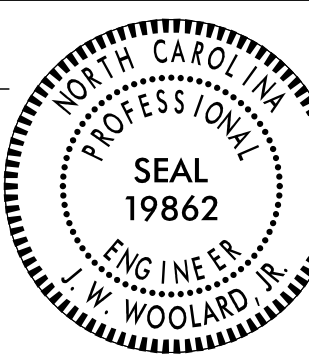
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**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

APPROVED: *G. W. Woodard*
6385887FED07428

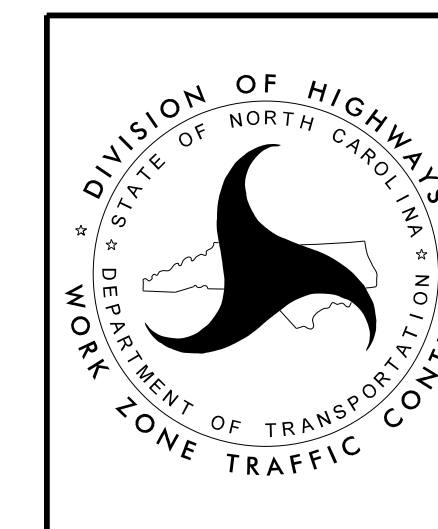
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**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

 **Stantec**

Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. 919.851.6866
Fax. 919.851.7024
www.stantec.com
License No. F-0672



**TEMPORARY TRAFFIC CONTROL
PHASING
PHASE III**

7/11/2022 8:58:58 AM \\E:\p\tr\l\ves\su\l\eng\neer\ng\shared\0\Projects\00015005\1-6064\CDM\1D\CAD\Tra\Iblazer-Design\CAD\1-5987B\CM_Tra\Iblazer_psh_01_111eSheet.dgn

TIP PROJECT: I-5987B

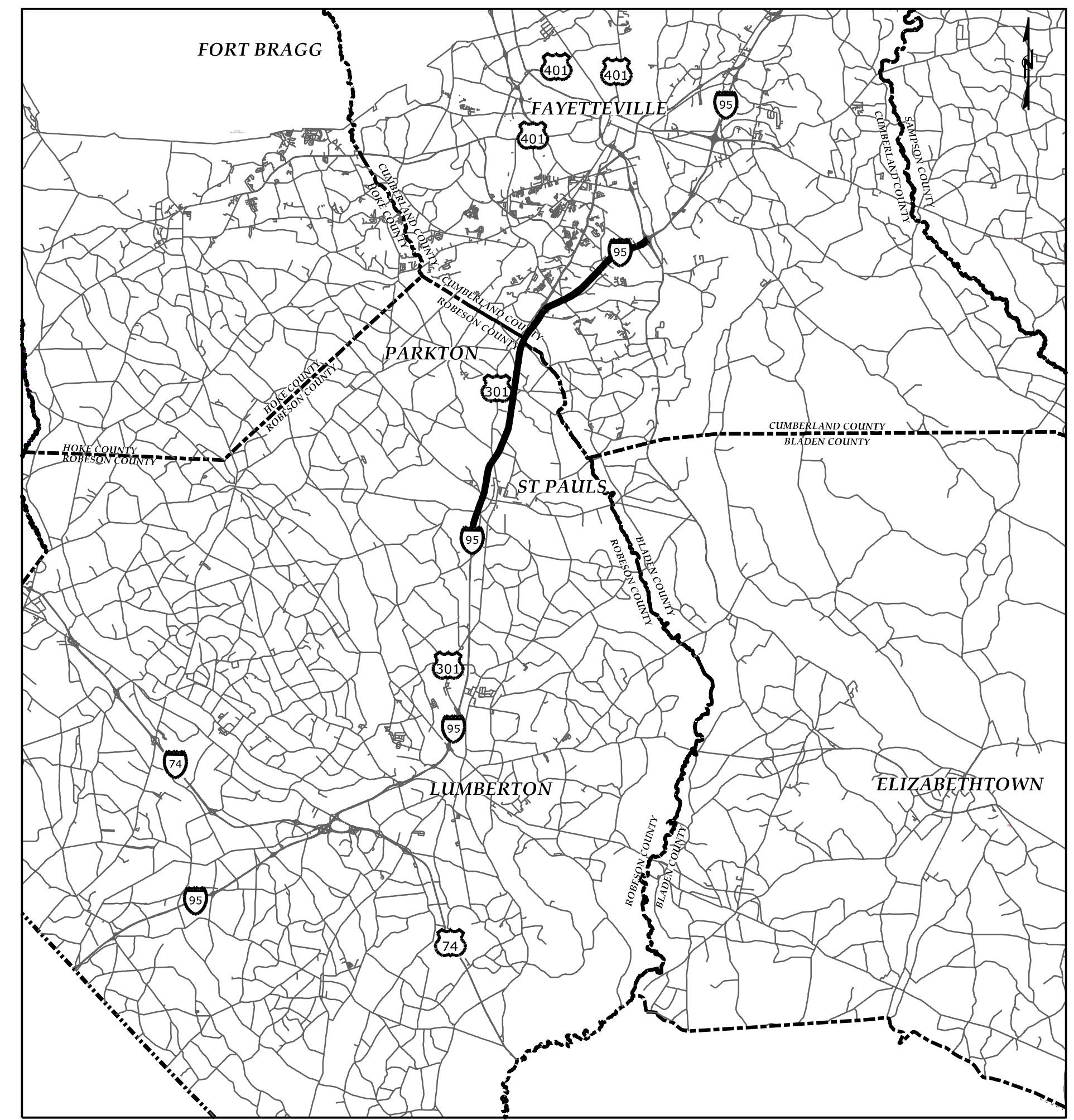
CONTRACT:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED I-95 INTEGRATED CORRIDOR MANAGEMENT SYSTEM

TYPE OF WORK: INSTALLATION OF STATIC AND CHANGEABLE TRAILBLAZER SIGNS

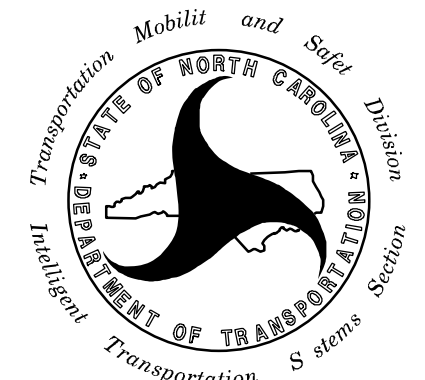
STATE	CITY PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5987B	Sign-29	16
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	



2018 STANDARD SPECIFICATIONS

LETTING DATE:

PROJECT LENGTH = N/A



750 Greenfield Pkwy., Garner, NC 27529
NCDOT CONTACTS:
TRANSPORTATION SAFETY AND MOBILITY
TRAFFIC SYSTEMS OPERATIONS SECTION
 DOMINIC CIARAMITARO, P.E. - STATE TRAFFIC OPERATIONS ENGINEER

PLANS PREPARED BY:



NC License #C-4445
 304-F W. Millbrook Rd
 Raleigh, NC 27609
 Tel: (919) 984-5426
 Fax: (919) 677-2050

EXULT CONTACTS:

COLE DAGERHARDT, P.E. - PROJECT MANAGER
 ELIZABETH LYNCH, P.E. - PROJECT ENGINEER

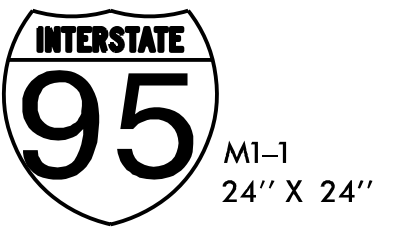


DocuSigned by:
 Elizabeth Lynch
 SIGNATURE

7/11/2022
 DATE

PROJECT REFERENCE NO.	SHEET NO.
I-5987B	Sign-30

401 QUANTITY REQ'D 10

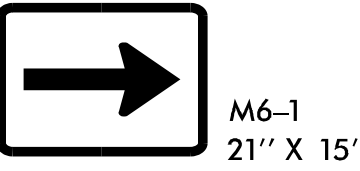


MI-1
24" X 24"

BACKGROUND COLOR: BLUE
COPY COLOR: WHITE

ONE "U" POST PER SIGN

402 QUANTITY REQ'D 2

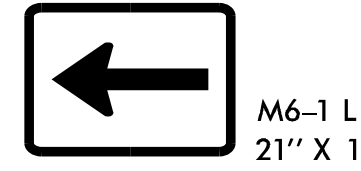


M6-1
21" X 15"

BACKGROUND COLOR: BLUE
COPY COLOR: WHITE

MOUNTED BELOW SIGN #401

403 QUANTITY REQ'D 4




M6-1 L
21" X 15"

BACKGROUND COLOR: BLUE
COPY COLOR: WHITE

MOUNTED BELOW SIGN #401

404 QUANTITY REQ'D 2

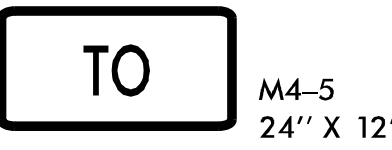


M6-3
21" X 15"

BACKGROUND COLOR: BLUE
COPY COLOR: WHITE

MOUNTED BELOW SIGN #401

405 QUANTITY REQ'D 5




M4-5
24" X 12"

BACKGROUND COLOR: BLUE
COPY COLOR: WHITE

MOUNTED ABOVE SIGN #406

406 QUANTITY REQ'D 8




M3-3
24" X 12"

BACKGROUND COLOR: BLUE
COPY COLOR: WHITE

MOUNTED ABOVE SIGN #401

407 QUANTITY REQ'D 2



M3-1
24" X 12"

BACKGROUND COLOR: BLUE
COPY COLOR: WHITE

MOUNTED ABOVE SIGN #401

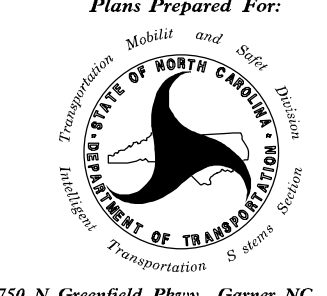



TYPE 'F' SIGNS

7/11/2022 \\Egnyte\drive\exult\engineering\shored\0 Projects\0005005 I-6064 ICM10 CAD\Trailblazer Design\CAD\I-5987B\ICM Trailblazer_psh_02_SignQuantities.dgn



EXULT
ENGINEERING

NC License #C-4445
304-F W. Millbrook Rd
Raleigh, NC 27609
Tel: (984) 500-5426

Plans Prepared For:  750 N. Greenfield Pkwy., Garner, NC 27529		I-5987B INTEGRATED CORRIDOR MANAGEMENT SYSTEM SIGN QUANTITIES SHEET		SEAL  NORTH CAROLINA PROFESSIONAL ENGINEER ELIZABETH W. LYNCH 037444	
DIVISION 06 PLAN DATE: JULY 2022 PREPARED BY: C. WONG/T. BLANG		ROBESON/CUMBERLAND COUNTY REVIEWED BY: E. LYNCH REVIEWED BY: C. DAGERHARDT		REVISIONS INIT. DATE	
SCALE 		SIGNATURE 		DATE 11/2022	

CADD File name:

SIGN NUMBER: 408
TYPE: D
QUANTITY: 5

BACKG COLOR: Yellow
COPY COLOR: Black

SIGN WIDTH: 2'-6"
HEIGHT: 1'-6"
TOTAL AREA: 3.8 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0.5"
WIDTH: 0.75"
RADII: 1.38"

NO. Z BARS:
LENGTH:

SYMBOL	X	Y	WID	HT

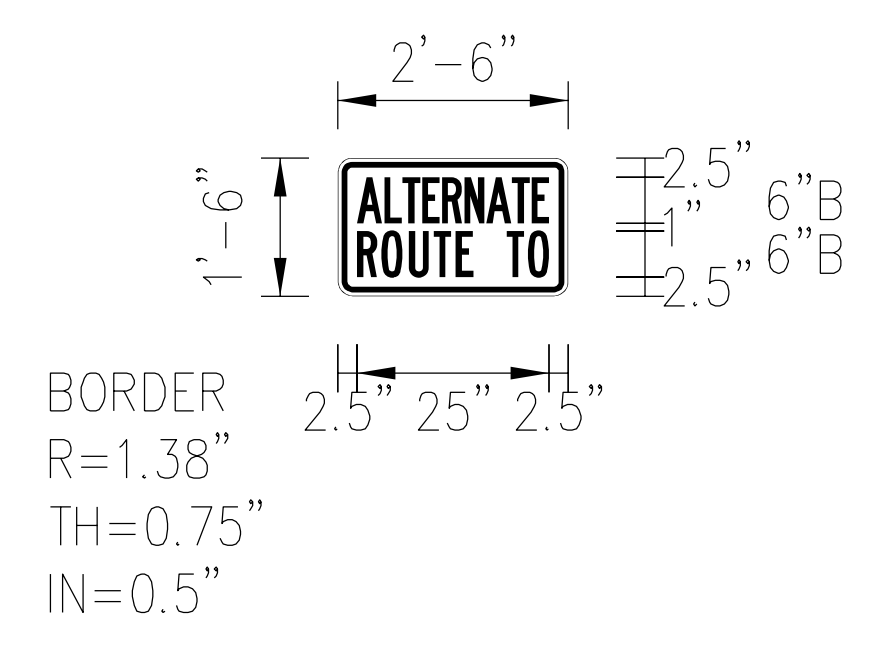
MAT'L: 0.063" (1.6 mm) ALUMINUM
 0.080" (2.0 mm) ALUMINUM
 0.125" (3.2 mm) ALUMINUM

DESIGN BY: EWL
PROJECT ID: I-5987B

CHECKED BY:
LOCATION:

JULY 6, 2022
DIV: 6

- USE NOTES:**
- Legend and border (except those that are colored black) shall be direct applied Grade C sheeting.
 - Background shall be Grade A, B, or C reflective sheeting.
 - Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum with Grade C reflective sheeting and demountable.
 - Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Arrow shall be on 0.032" aluminum, black non-reflective sheeting and demountable. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

										Series/Size Text Length	
A	L	T	E	R	N	A	T	E			B 2000
2.5	6	8.4	11	13.6	16.5	19.3	22.7	25.2			25
R	O	U	T	E	T	O					B 2000
2.5	5.7	9.2	12.4	15.3	22	24.7					25

FILENAME: I-5987B_ICM_Trailblazer_psh_05A_SignDetails NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN DESIGNS

EXULT ENGINEERING
 NC License #C-4445
 304-F W. Millbrook Rd
 Raleigh, NC 27609
 Tel: (984) 500-5426

	Plans Prepared For: I-5987B INTEGRATED CORRIDOR MANAGEMENT SYSTEM SIGN DETAILS SHEET	
	DIVISION 06 PLAN DATE: JULY 2022 PREPARED BY: C. WONG/T. BLANG	ROBESON/CUMBERLAND COUNTY REVIEWED BY: E. LYNCH REVIEWED BY: C. DAGERHARDT
	SCALE: 0 REVISIONS:	INIT. DATE SIGNATURE: Elizabeth W. Lynch DATE: 7/11/2022

CADD Filename:

7/11/2022 \\Egnyte01\ive\exultengineering\shored\0 Projects\0005005 I-6064 ICM10 CAD\Trailblazer Design\CAD\I-5987B\ICM_Trailblazer_psh_05A_SignDetails.dgn

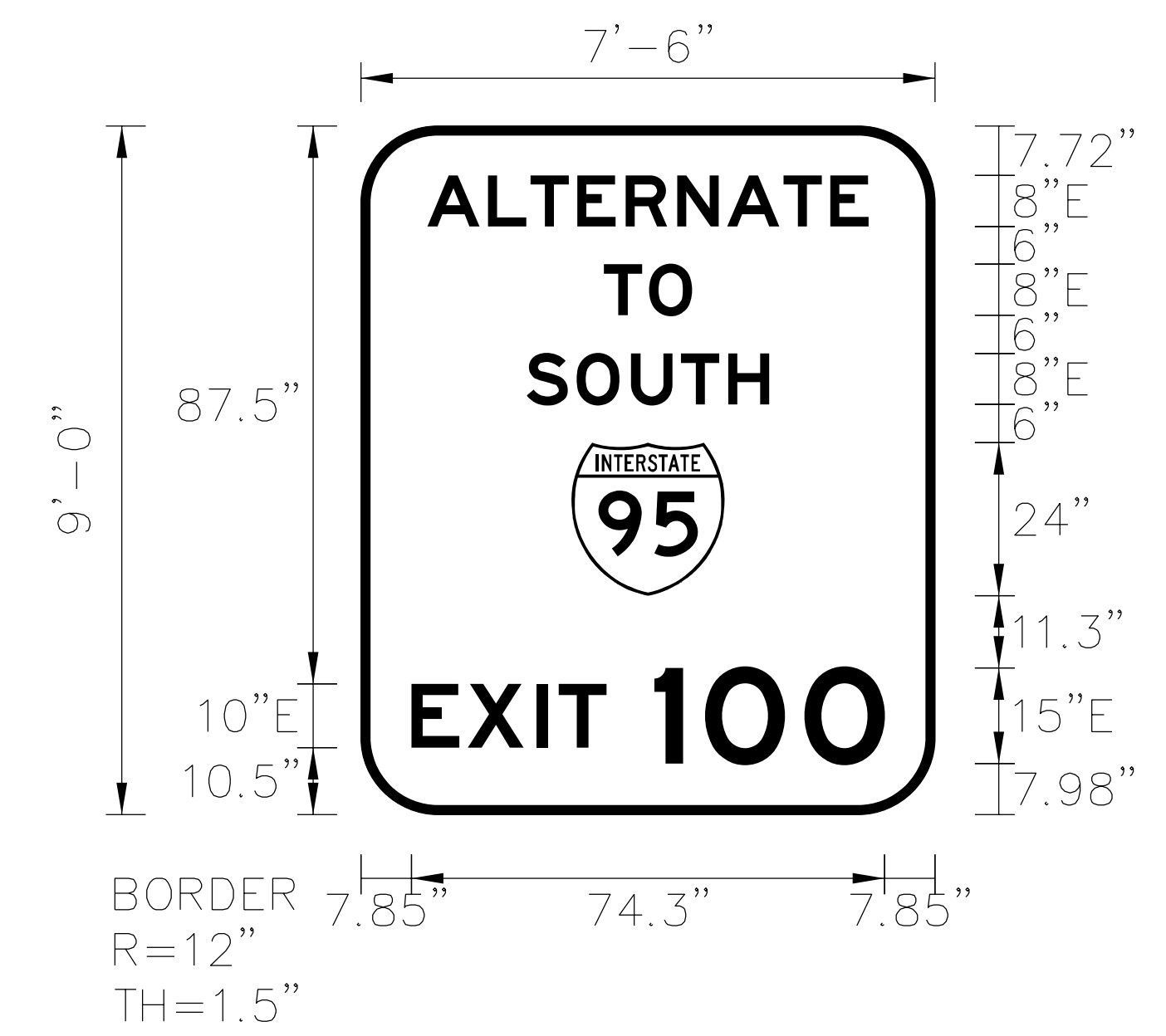
SIGN NUMBER: 409
TYPE: A
QUANTITY: 1
SIGN WIDTH: 7'-6"
HEIGHT: 9'-0"
TOTAL AREA: 67.5 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1.5"
RADII: 12"
NO. Z BARS: 3
LENGTH: 82.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	33	34.3	24	24

MAT'L: 0.063" (1.6 mm) ALUMINUM
 0.080" (2.0 mm) ALUMINUM
 0.125" (3.2 mm) ALUMINUM

DESIGN BY: EWL
PROJECT ID: I-5987B
CHECKED BY:
LOCATION:
JULY 6, 2022
DIV: 6



- USE NOTES:**
- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 - Background shall be Grade A, B, or C reflective sheeting.
 - Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum with Grade C reflective sheeting and demountable.
 - Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Arrow shall be on 0.032" aluminum, black non-reflective sheeting an demountable. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter Locations										Series/Size	Text Length	
A	L	T	E	R	N	A	T	E			E 2000	69.2
10.4	19.9	26.6	33.9	41.5	49.6	57.4	66.2	73.6				
T	O										E 2000	13.8
38.1	45.2											
S	O	U	T	H							E 2000	38.1
26	33.8	42.4	50.2	57.6								
E	X	I	T	1	0	0					E 2000	74.3
7.9	16.8	27.5	31	46	53.9	69.5						


FILENAME: I-5987B_ICM_Trailblazer_psh_05B_SignDetails NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN DESIGNS



Plans Prepared For: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 750 N. Greenfield Pkwy., Garner, NC 27529	I-5987B INTEGRATED CORRIDOR MANAGEMENT SYSTEM SIGN DETAILS SHEET		SEAL ELIZABETH W. LYNCH ENGINEER 037444 11/2022
	DIVISION 06 PLAN DATE: JULY 2022 PREPARED BY: C. WONG/T. BLANG	ROBESON/CUMBERLAND COUNTY REVIEWED BY: E. LYNCH REVIEWED BY: C. DAGERHARDT	

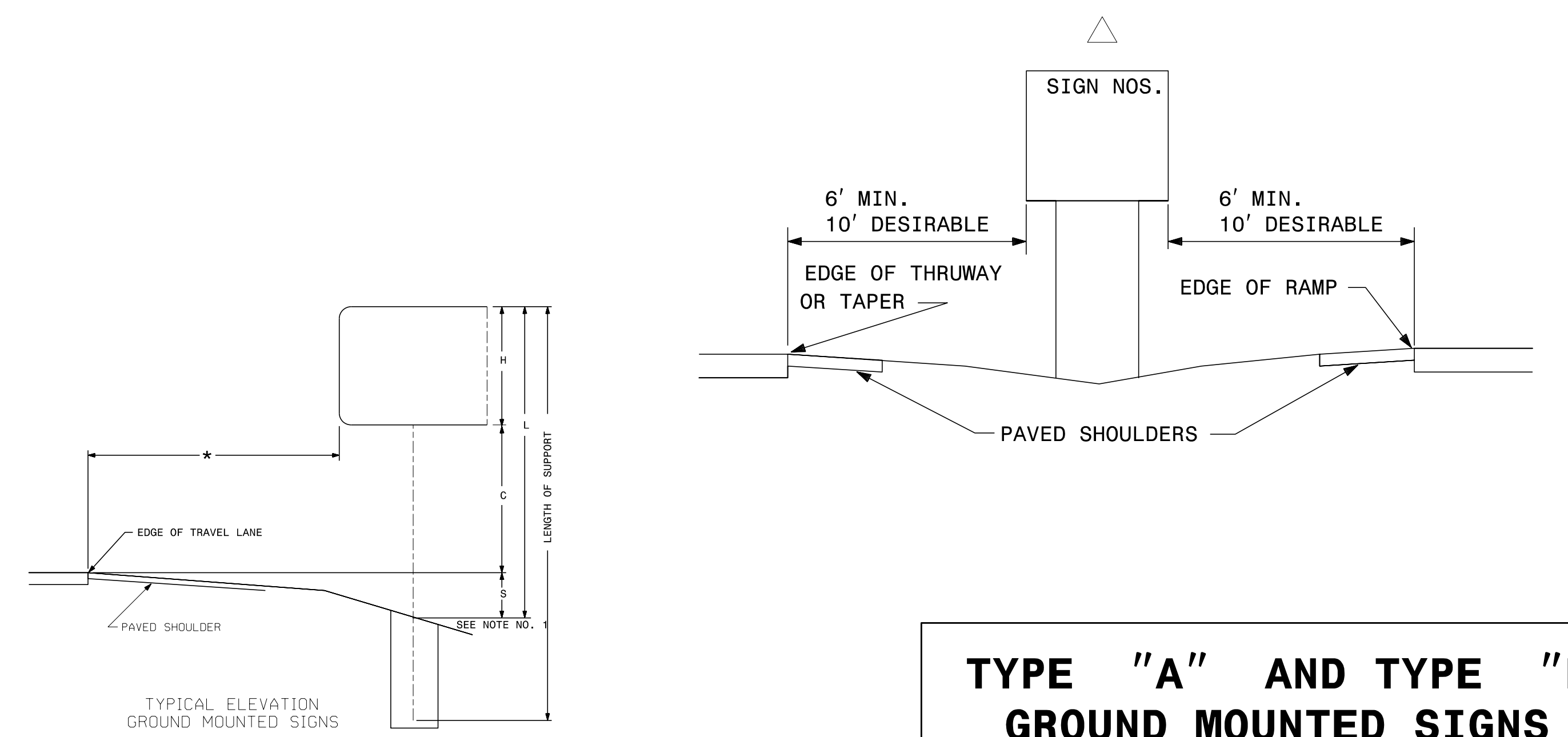
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PROJECT REFERENCE NO. I-5987B	SHEET NO. SIGN-33
APPROVED: <i>David M. Eaton</i> DATE: 7/11/2022	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NUMBER	SIGN TYPE	SIGN SIZE (in.)			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)
		w	x	h										SNS HT "H"	MTG HT "C"	EMB- MENT	S	L	LENGTH	S	L	LENGTH	S	L	LENGTH	B/A (lbs.)	SIMPLE (lbs.)	DIAMETER (ft.)	DEPTH (ft.)	REINFORCED (c.y.)	PLAIN (c.y.)	
		409	A	90										x	108	15+10.00	2	W6x9	BA	N/A	N/A	N/A	20.00	4.40	9.00	7.00	3.0	1.86	17.86	20.86	0.00	
														TOTAL	TOTAL	TOTAL	TOTAL															
														450.19	0.00	0.46	0.00															
														USE:	451.00	0.00	1.00															

NOTES

- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF TRAVEL LANE.
- 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
- 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.



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

S:\S&B\Eastern\Andrew\Review Projects\I-5987\I-5987-U-2519 1-95 ICM Trailblazer (Lumberton Section)\Support Chart\I-95\ICM_Trailblazer_Support_Chart.dgn



MATCHLINE, SEE SHEET Sign-35

7/11/2022 \\Egnyte\Drive\exult\engineering\Shored\0 Projects\0005005 I-6064 ICM10 CAD\Trailblazer Design\CAD\I-5987B\CM.Trailblazer_psh_04A_keySheet.dgn

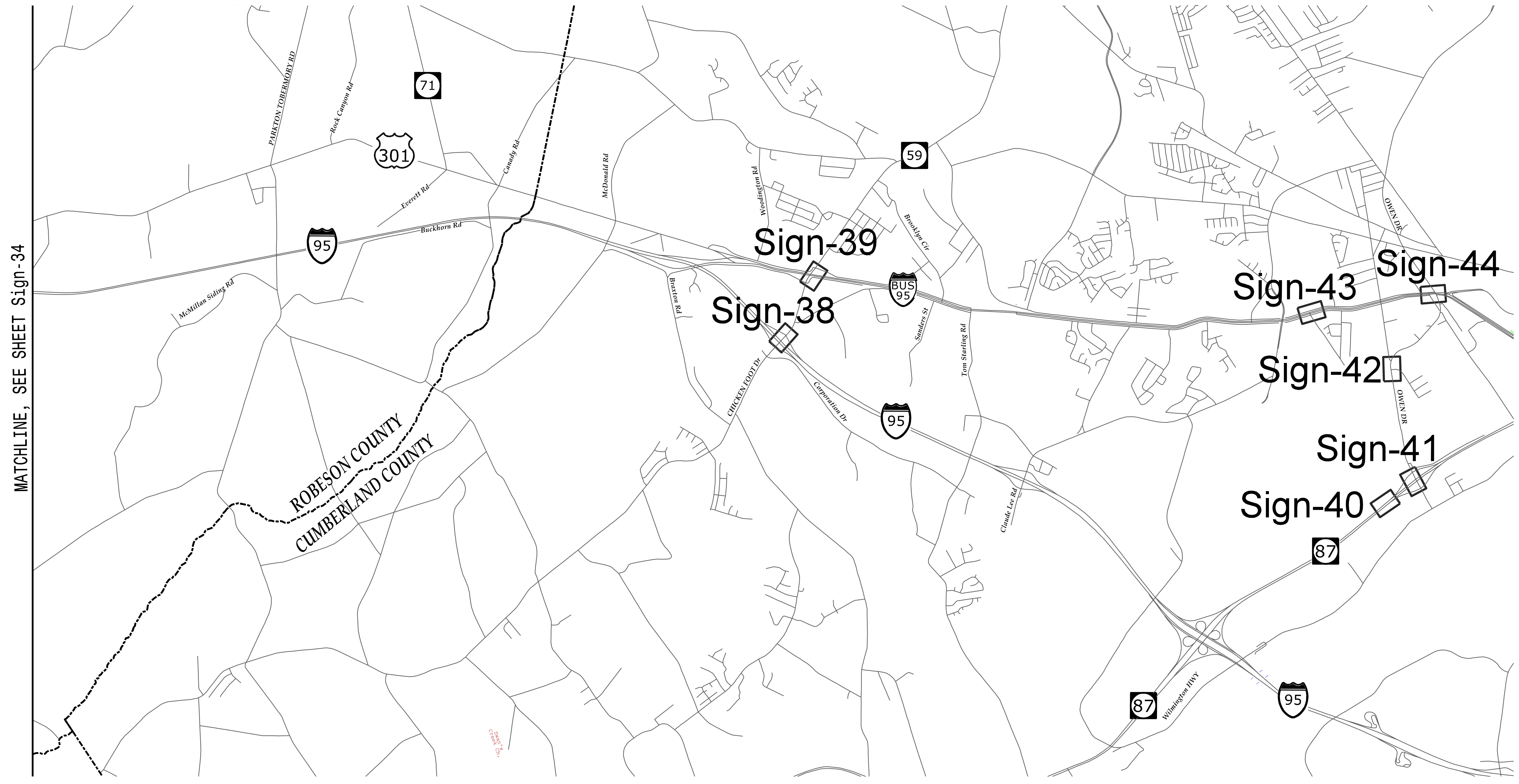
EXULT ENGINEERING

NC License #C-4445
304-F W. Millbrook Rd
Raleigh, NC 27609
Tel: (984) 500-5426

<p>Plans Prepared For: STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 750 N. Greenfield Pkwy., Garner, NC 27529</p>	<p>I-5987B INTEGRATED CORRIDOR MANAGEMENT SYSTEM KEY SHEET A</p>		<p>SEAL</p> <p>ELIZABETH W. LYNCH 11/2022</p>				
	<p>DIVISION 06 ROBESON/CUMBERLAND COUNTY</p> <p>PLAN DATE: JULY 2022 REVIEWED BY: E. LYNCH</p> <p>PREPARED BY: C. WONG/T. BLANG REVIEWED BY: C. DAGERHARDT</p>	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS	INIT.	DATE	
REVISIONS	INIT.	DATE					

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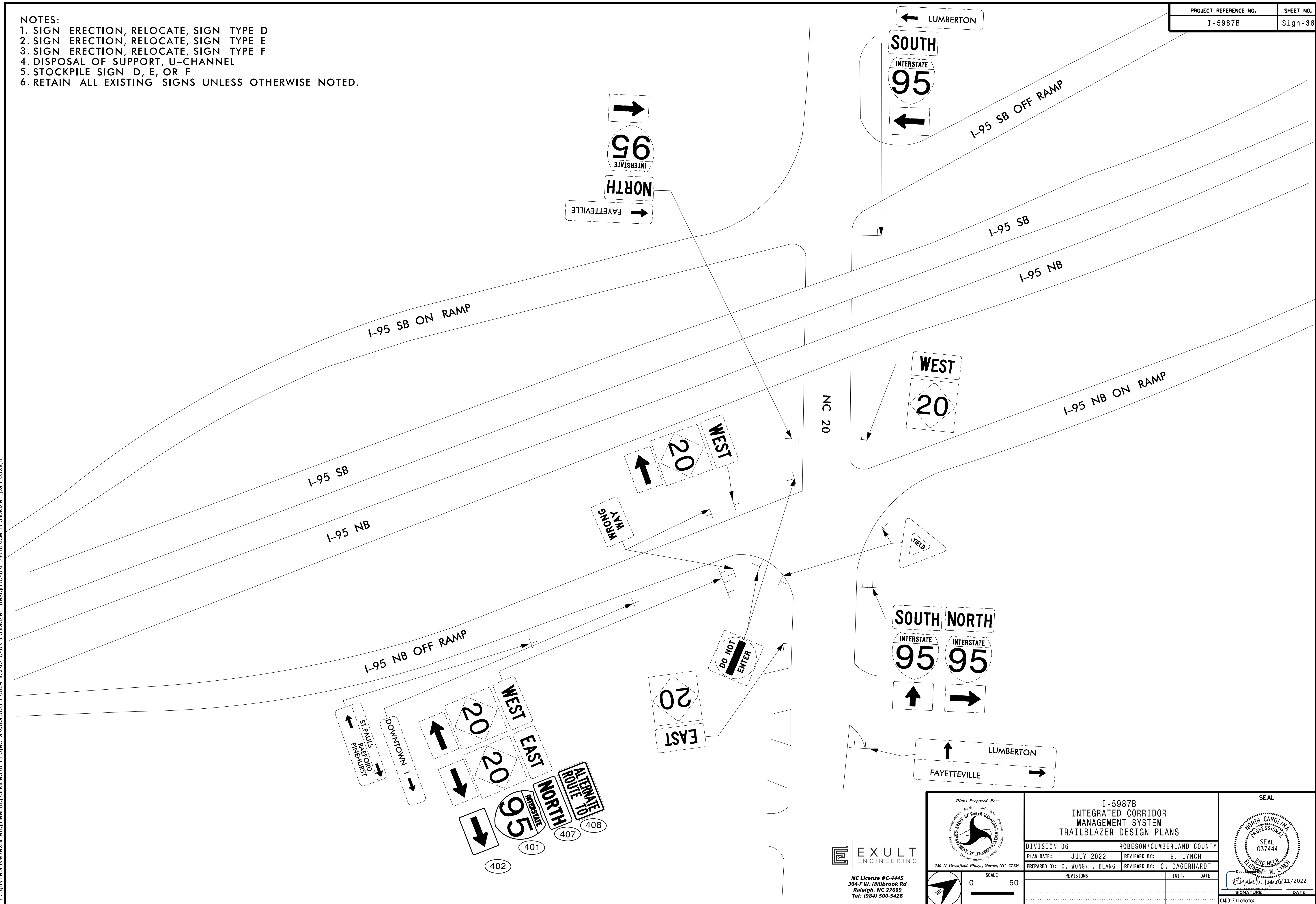
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EXULT ENGINEERING
 750 N. Greenfield Pkwy., Garner, NC 27529
 NC License #C-4445
 304-F W. Millbrook Rd
 Raleigh, NC 27609
 Tel: (984) 500-5426

	I-5987B INTEGRATED CORRIDOR MANAGEMENT SYSTEM KEY SHEET B		SEAL
	DIVISION 06 PLAN DATE: JULY 2022 PREPARED BY: C. WONG/T. BLANG	ROBESON/CUMBERLAND COUNTY REVIEWED BY: E. LYNCH REVIEWED BY: C. DAGERHARDT	

Signature: *Elizabeth W. Lynch* 11/2022
 CADD Filename:

- NOTES:
 1. SIGN ERECTION, RELOCATE, SIGN TYPE D
 2. SIGN ERECTION, RELOCATE, SIGN TYPE E
 3. SIGN ERECTION, RELOCATE, SIGN TYPE F
 4. DISPOSAL OF SUPPORT, U-CHANNEL
 5. STOCKPILE SIGN D, E, OR F
 6. RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



7/11/2022 \\Egnyr\drive\exult\engineering\Shored\0 Projects\0005005 I-6064 ICM10 CAD\Trailblazer Design\CAD\I-5987B\NCM-Trailblazer_psh_05.dgn

EXULT ENGINEERING
 NC License #C-4445
 304-F W. Millbrook Rd
 Raleigh, NC 27609
 Tel: (984) 500-5426

Plans Prepared For:

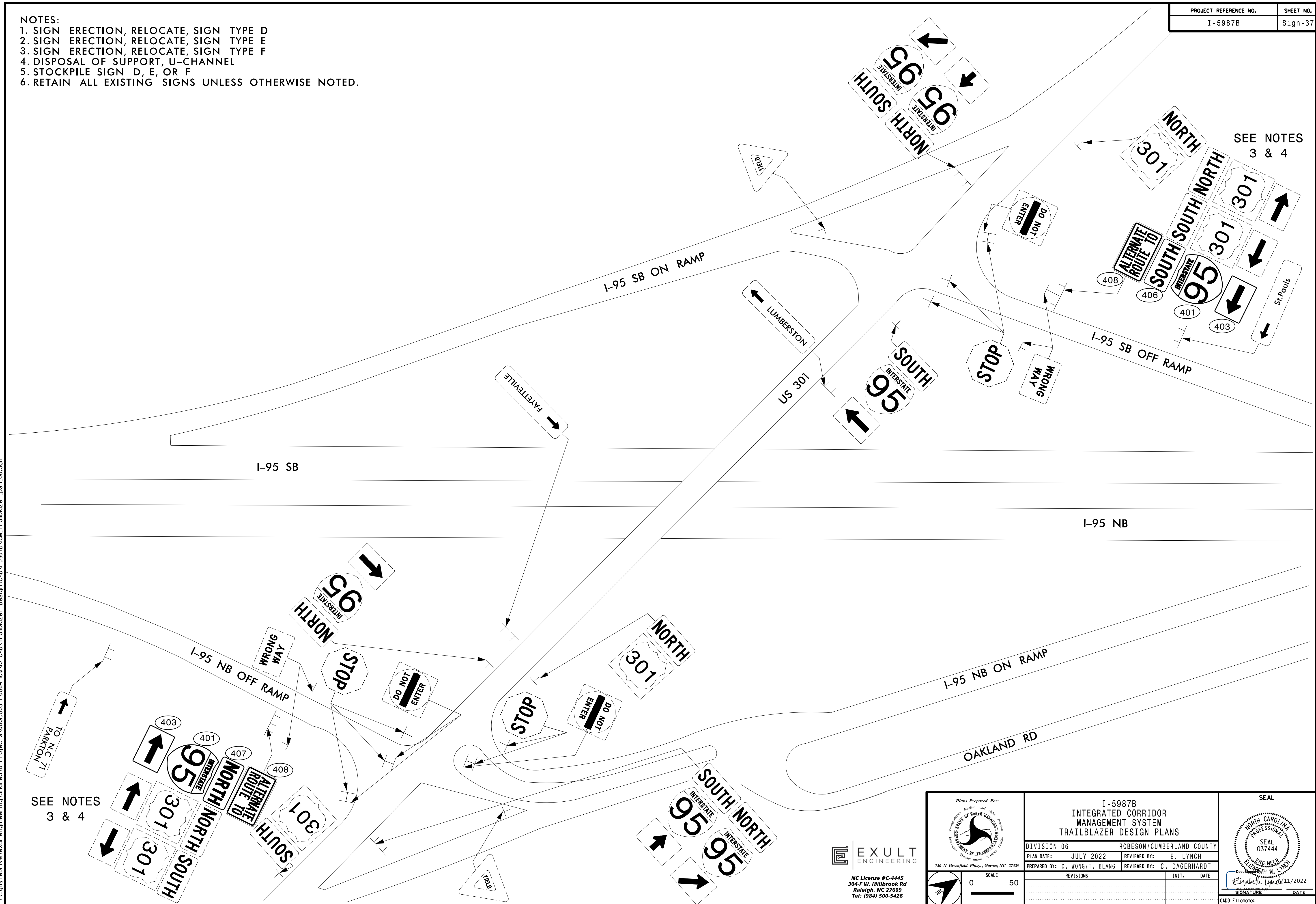
 750 N. Greenfield Pkwy., Garner, NC 27529

I-5987B INTEGRATED CORRIDOR MANAGEMENT SYSTEM TRAILBLAZER DESIGN PLANS	
DIVISION 06	ROBESON/CUMBERLAND COUNTY
PLAN DATE: JULY 2022	REVIEWED BY: E. LYNCH
PREPARED BY: C. WONG/T. BLANG	REVIEWED BY: C. DAGERHARDT
REVISIONS	INIT. DATE

SEAL

 Elizabeth W. Lynch
 11/2022
 SIGNATURE DATE
 CADD Filename:

- NOTES:
1. SIGN ERECTION, RELOCATE, SIGN TYPE D
 2. SIGN ERECTION, RELOCATE, SIGN TYPE E
 3. SIGN ERECTION, RELOCATE, SIGN TYPE F
 4. DISPOSAL OF SUPPORT, U-CHANNEL
 5. STOCKPILE SIGN D, E, OR F
 6. RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



7/11/2022 \\Egnyr\drive\exult\engineering\Shored\0 Projects\00015005 1-6064 ICM10 CAD\Trailblazer Design\CAD\1-5987B\CM-Trailblazer_psh_06.dgn

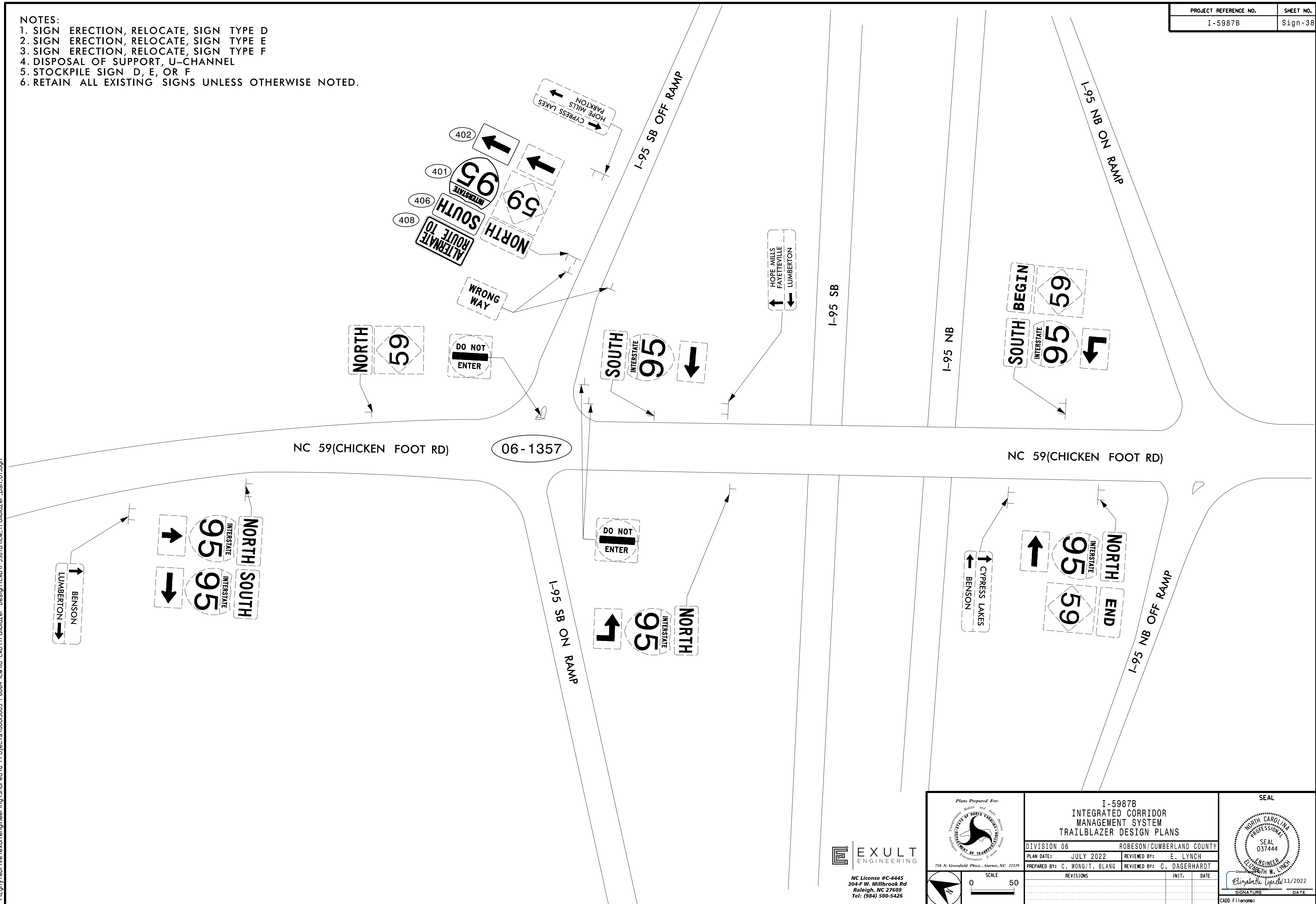
SEE NOTES 3 & 4

SEE NOTES 3 & 4

EXULT ENGINEERING
 NC License #C-4445
 304-F W. Millbrook Rd
 Raleigh, NC 27609
 Tel: (984) 500-5426

	Plans Prepared For: I-5987B INTEGRATED CORRIDOR MANAGEMENT SYSTEM TRAILBLAZER DESIGN PLANS		SEAL
	DIVISION 06 PLAN DATE: JULY 2022 PREPARED BY: C. WONG/T. BLANG	ROBESON/CUMBERLAND COUNTY REVIEWED BY: E. LYNCH REVIEWED BY: C. DAGERHARDT	

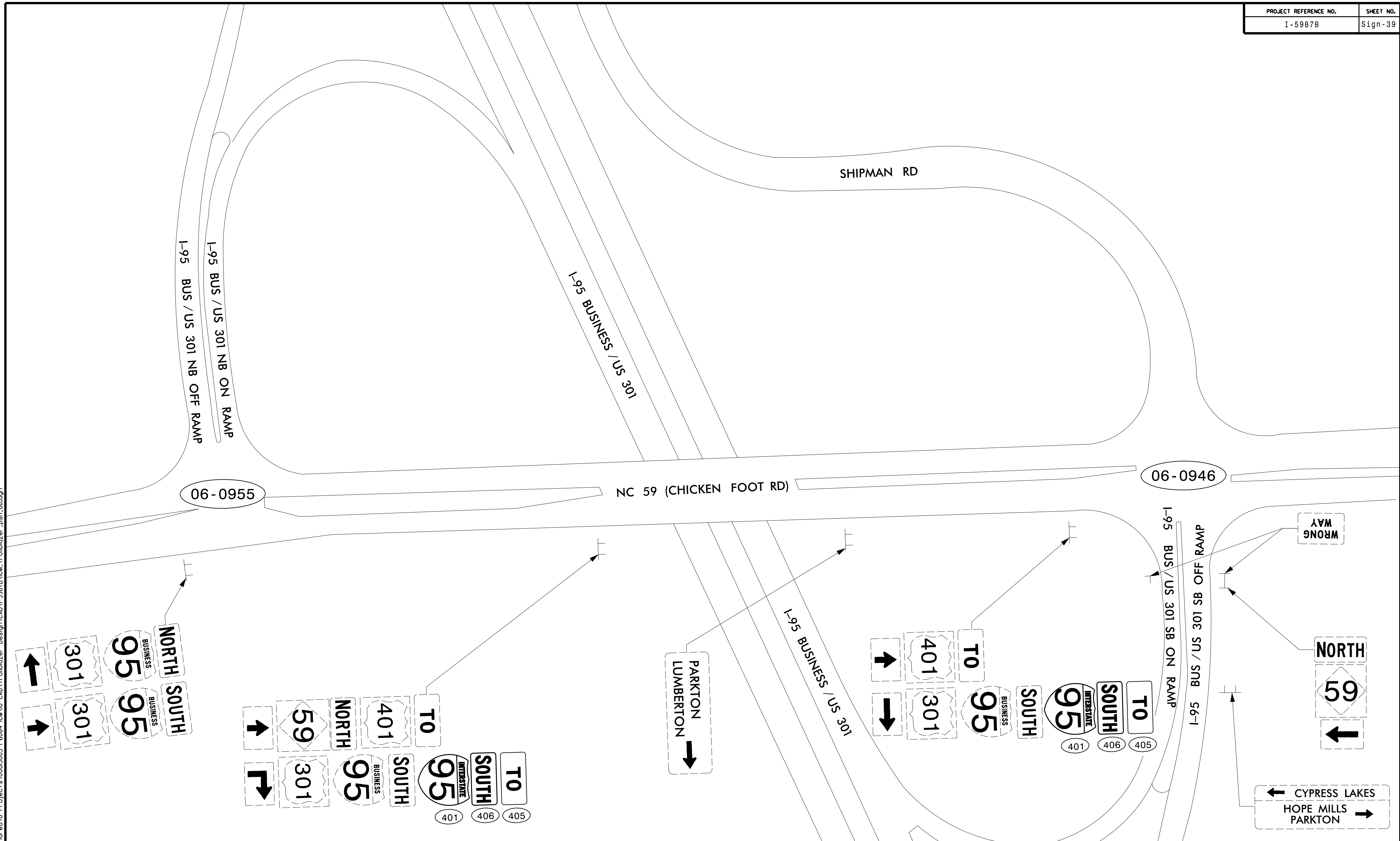
- NOTES:
 1. SIGN ERECTION, RELOCATE, SIGN TYPE D
 2. SIGN ERECTION, RELOCATE, SIGN TYPE E
 3. SIGN ERECTION, RELOCATE, SIGN TYPE F
 4. DISPOSAL OF SUPPORT, U-CHANNEL
 5. STOCKPILE SIGN D, E, OR F
 6. RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



7/11/2022 \\Egnyte\Drive\exult\engineering\Shored\0 Projects\0005005 I-6064 ICM10 CAD\Trailblazer Design\CAD\I-5987B\CM-Trailblazer_psh_07.dgn

EXULT ENGINEERING
 NC License #C-4445
 304-F W. Millbrook Rd
 Raleigh, NC 27609
 Tel: (984) 500-5426

	Plans Prepared For: I-5987B INTEGRATED CORRIDOR MANAGEMENT SYSTEM TRAILBLAZER DESIGN PLANS		SEAL
	DIVISION 06 PLAN DATE: JULY 2022 PREPARED BY: C. WONG/T. BLANG	ROBESON/CUMBERLAND COUNTY REVIEWED BY: E. LYNCH REVIEWED BY: C. DAGERHARDT	
SCALE 0 50		REVISIONS INIT. DATE	SIGNATURE DATE



- NOTES:
1. SIGN ERECTION, RELOCATE, SIGN TYPE D
 2. SIGN ERECTION, RELOCATE, SIGN TYPE E
 3. SIGN ERECTION, RELOCATE, SIGN TYPE F
 4. DISPOSAL OF SUPPORT, U-CHANNEL
 5. STOCKPILE SIGN D, E, OR F
 6. RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.

7/11/2022 \\Egnyt\01\ve\exult\engineering\Shored\0 Projects\0005005 I-6064 ICM10 CAD\Trailblazer Design\CAD\I-5987B\CM Trailblazer_psh_08.dgn

EXULT ENGINEERING

NC License #C-4445
304-F W. Millbrook Rd
Raleigh, NC 27609
Tel: (984) 500-5426

Plans Prepared For:

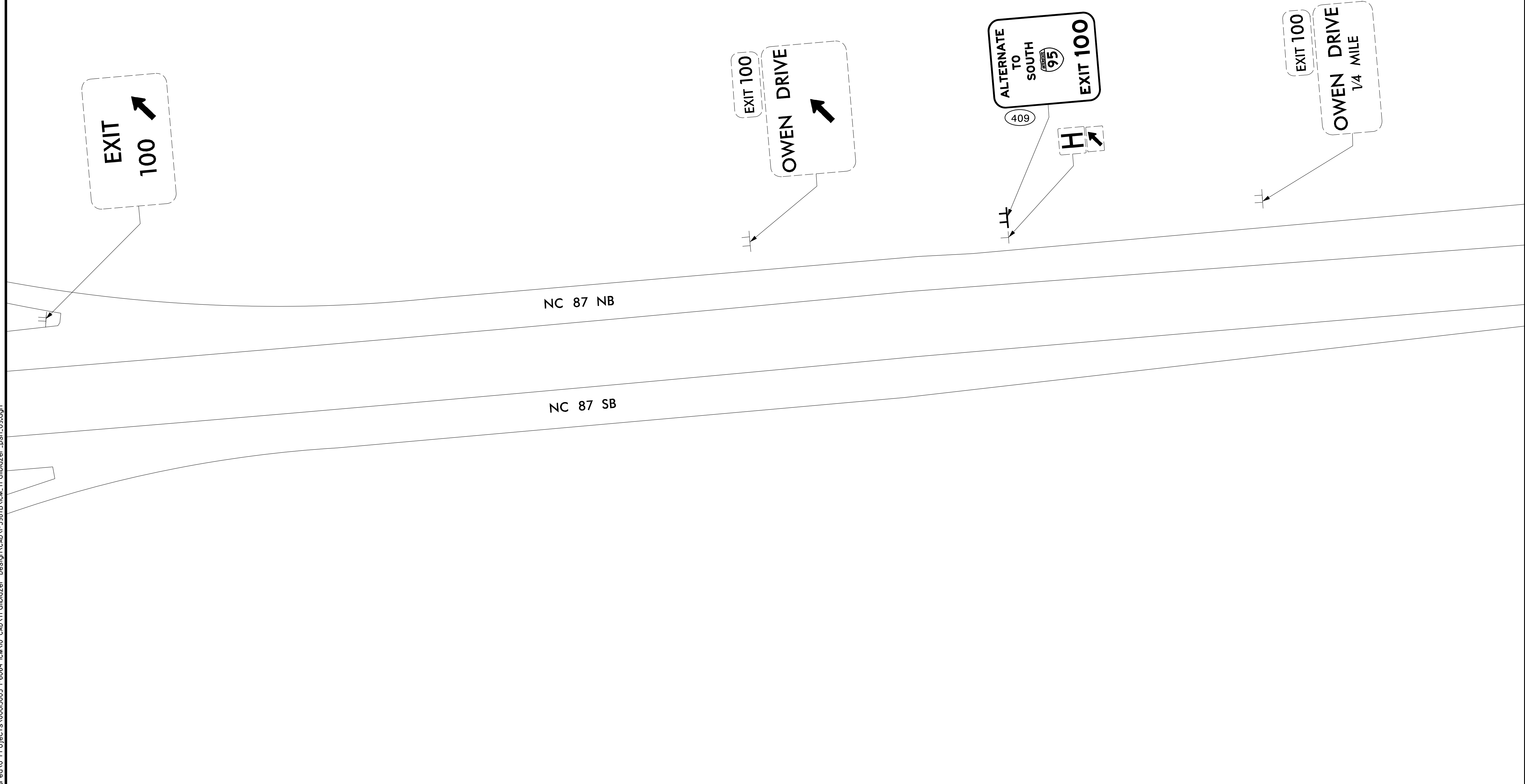
750 N. Greenfield Pkwy., Garner, NC 27529

I-5987B INTEGRATED CORRIDOR MANAGEMENT SYSTEM TRAILBLAZER DESIGN PLANS	
DIVISION 06	ROBESON/CUMBERLAND COUNTY
PLAN DATE: JULY 2022	REVIEWED BY: E. LYNCH
PREPARED BY: C. WONG/T. BLANG	REVIEWED BY: C. DAGERHARDT
REVISIONS	INIT. DATE

SEAL

ELIZABETH W. LYNCH
ENGINEER
11/2022

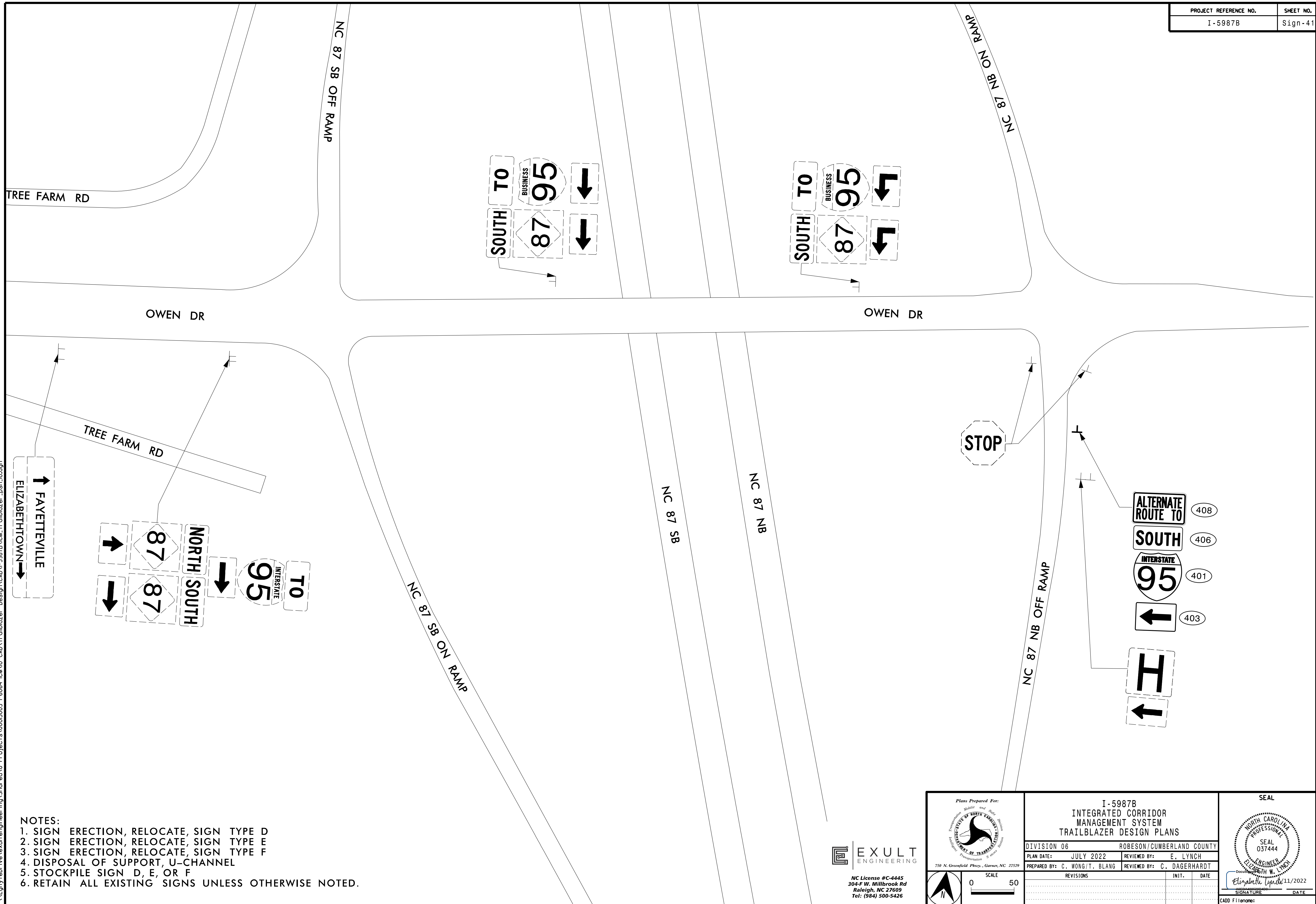
- NOTES:
1. SIGN ERECTION, RELOCATE, SIGN TYPE D
 2. SIGN ERECTION, RELOCATE, SIGN TYPE E
 3. SIGN ERECTION, RELOCATE, SIGN TYPE F
 4. DISPOSAL OF SUPPORT, U-CHANNEL
 5. STOCKPILE SIGN D, E, OR F
 6. RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



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	I-5987B INTEGRATED CORRIDOR MANAGEMENT SYSTEM TRAILBLAZER DESIGN PLANS		SEAL
	DIVISION 06 PLAN DATE: JULY 2022 PREPARED BY: C. WONG/T. BLANG	ROBESON/CUMBERLAND COUNTY REVIEWED BY: E. LYNCH REVIEWED BY: C. DAGERHARDT	



- NOTES:
1. SIGN ERECTION, RELOCATE, SIGN TYPE D
 2. SIGN ERECTION, RELOCATE, SIGN TYPE E
 3. SIGN ERECTION, RELOCATE, SIGN TYPE F
 4. DISPOSAL OF SUPPORT, U-CHANNEL
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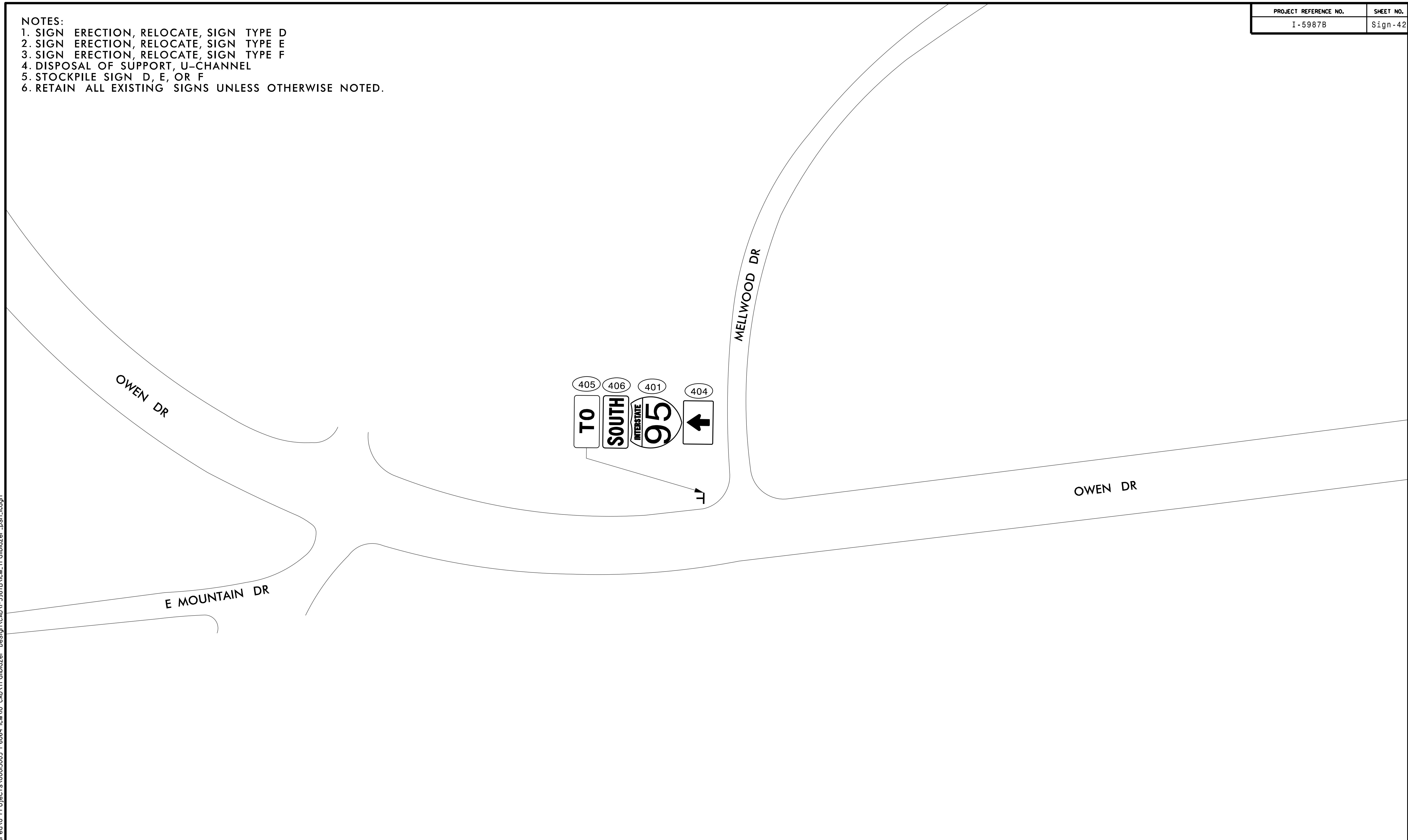
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EXULT ENGINEERING
 750 N. Greenfield Pkwy., Garner, NC 27529
 NC License #C-4445
 304-F W. Millbrook Rd
 Raleigh, NC 27609
 Tel: (984) 500-5426

	Plans Prepared For: I-5987B INTEGRATED CORRIDOR MANAGEMENT SYSTEM TRAILBLAZER DESIGN PLANS		SEAL ELIZABETH W. LYNCH ENGINEER NORTH CAROLINA PROFESSIONAL ENGINEERING BOARD 11/2022
	DIVISION 06 PLAN DATE: JULY 2022 PREPARED BY: C. WONG/T. BLANG	ROBESON/CUMBERLAND COUNTY REVIEWED BY: E. LYNCH REVIEWED BY: C. DAGERHARDT	

CADD Filename: _____

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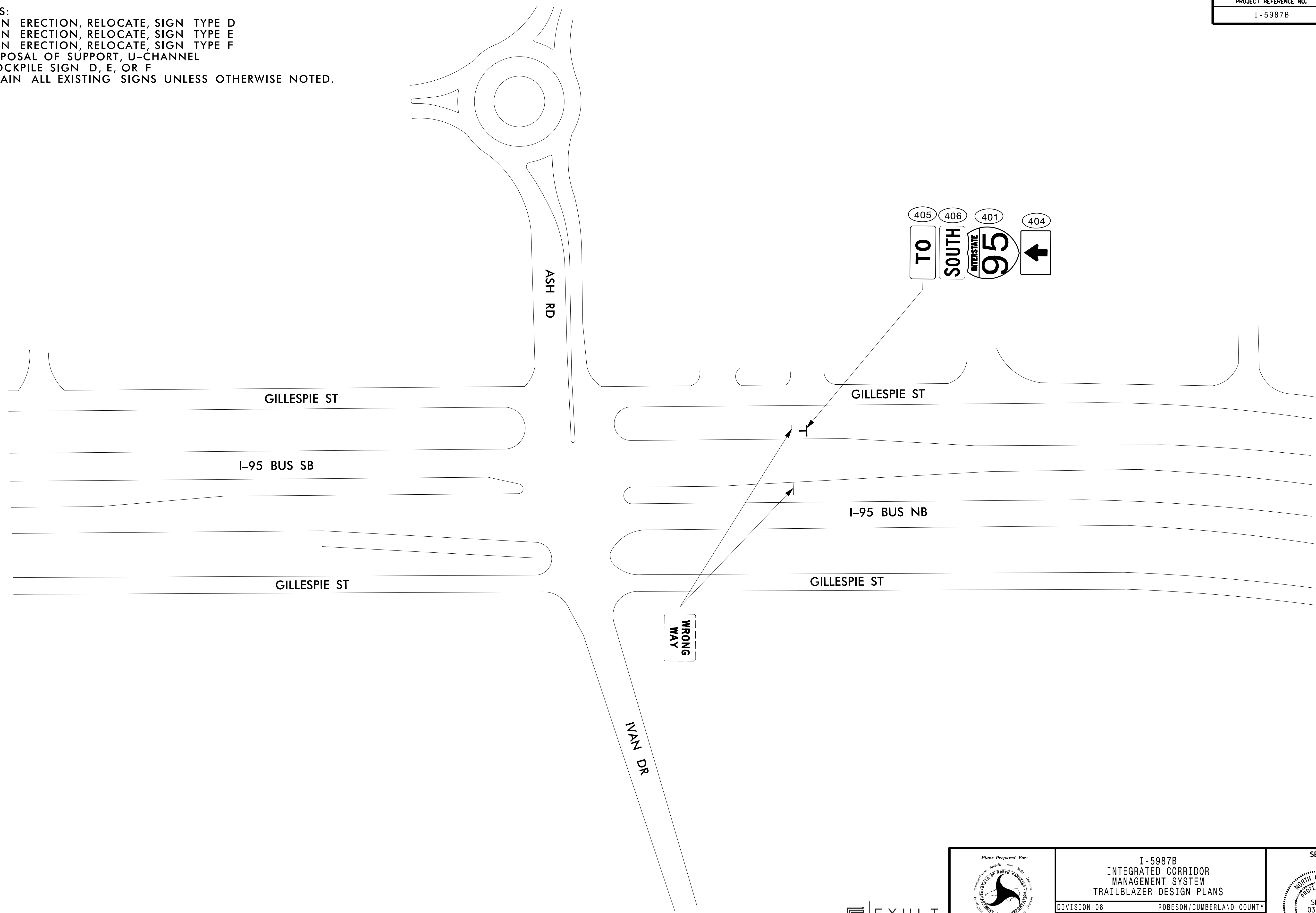


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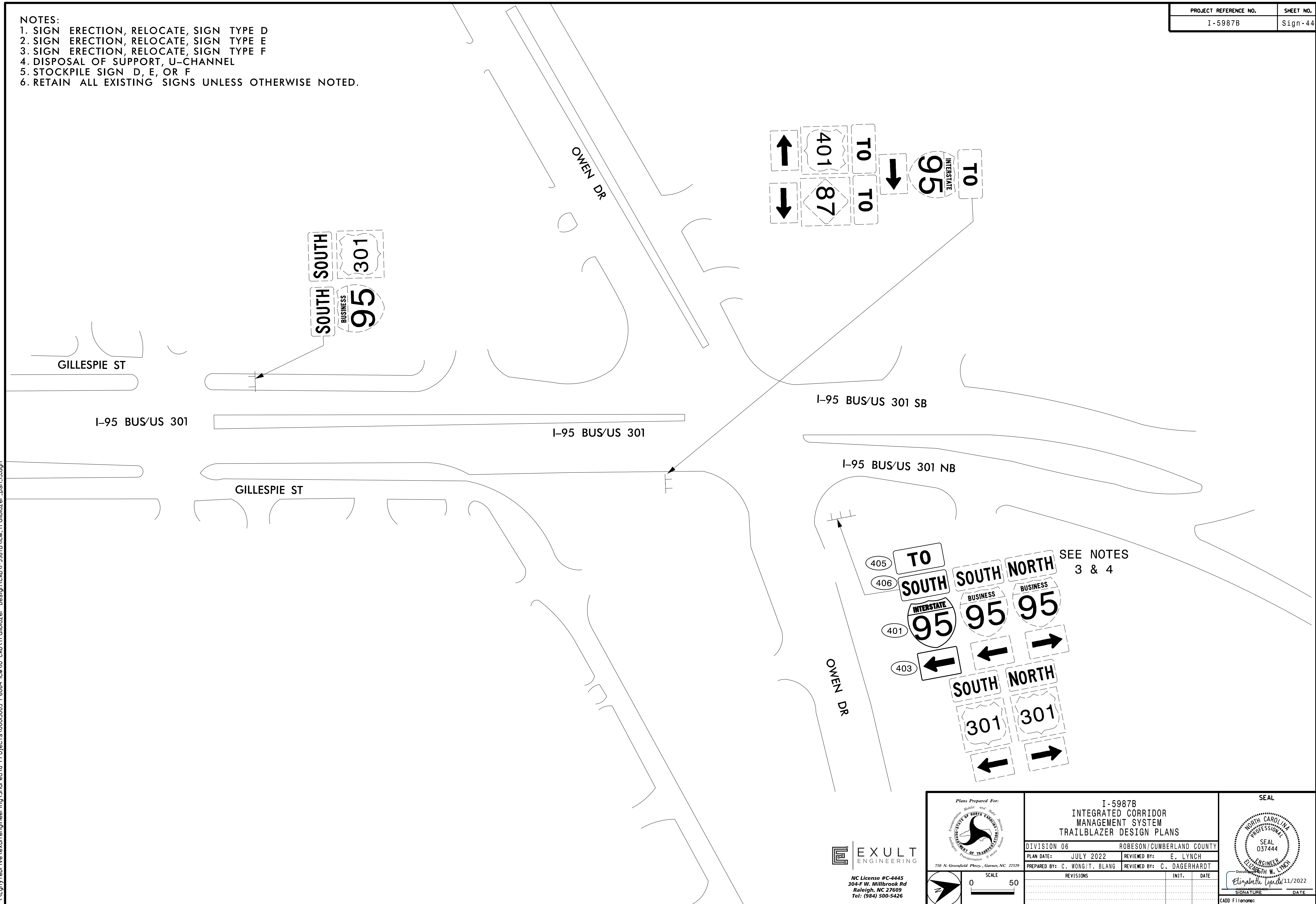


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SCALE 0 50	REVISIONS INIT. DATE	SIGNATURE DATE	CADD Filename:

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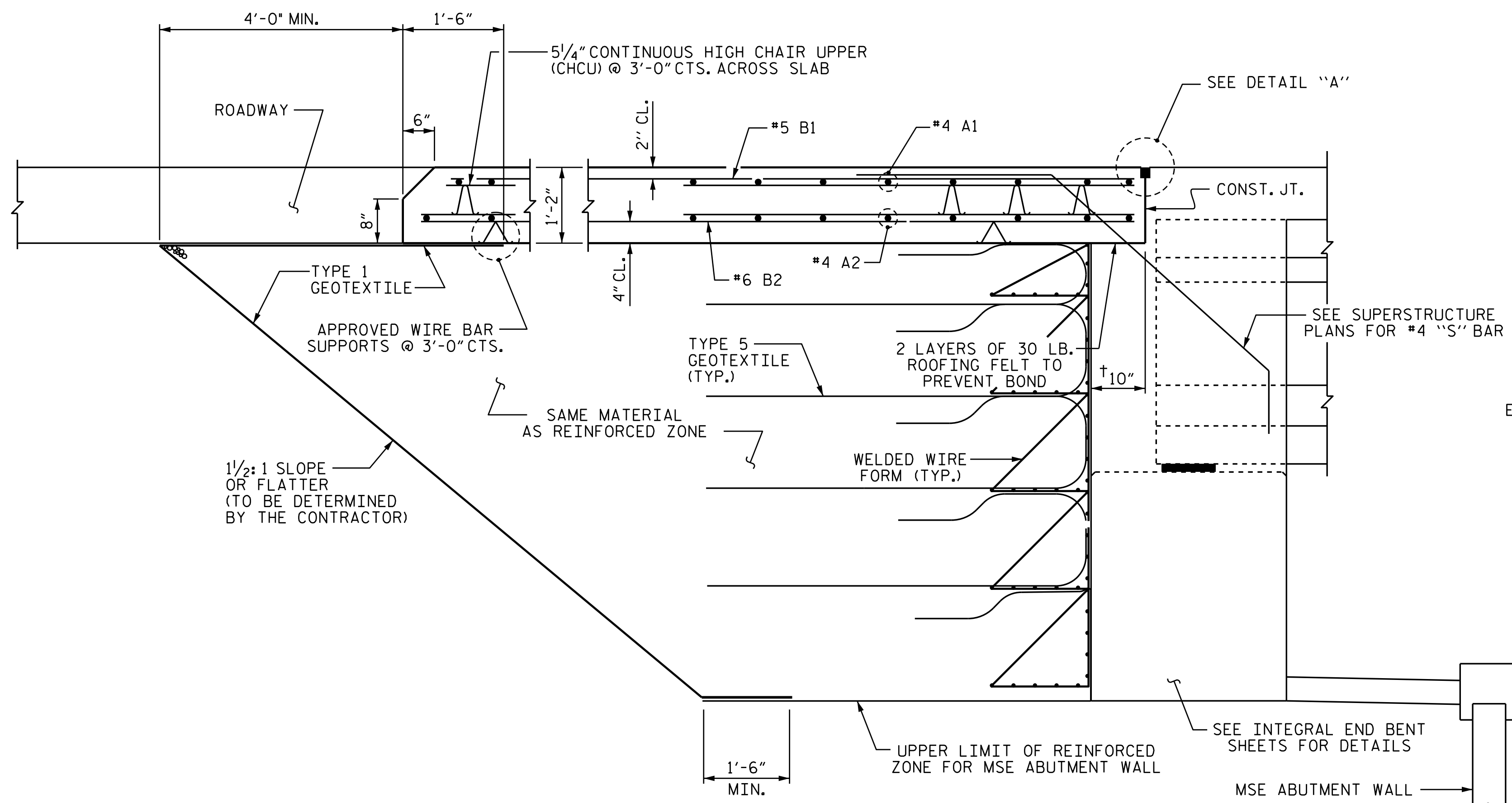
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SEE NOTES
3 & 4

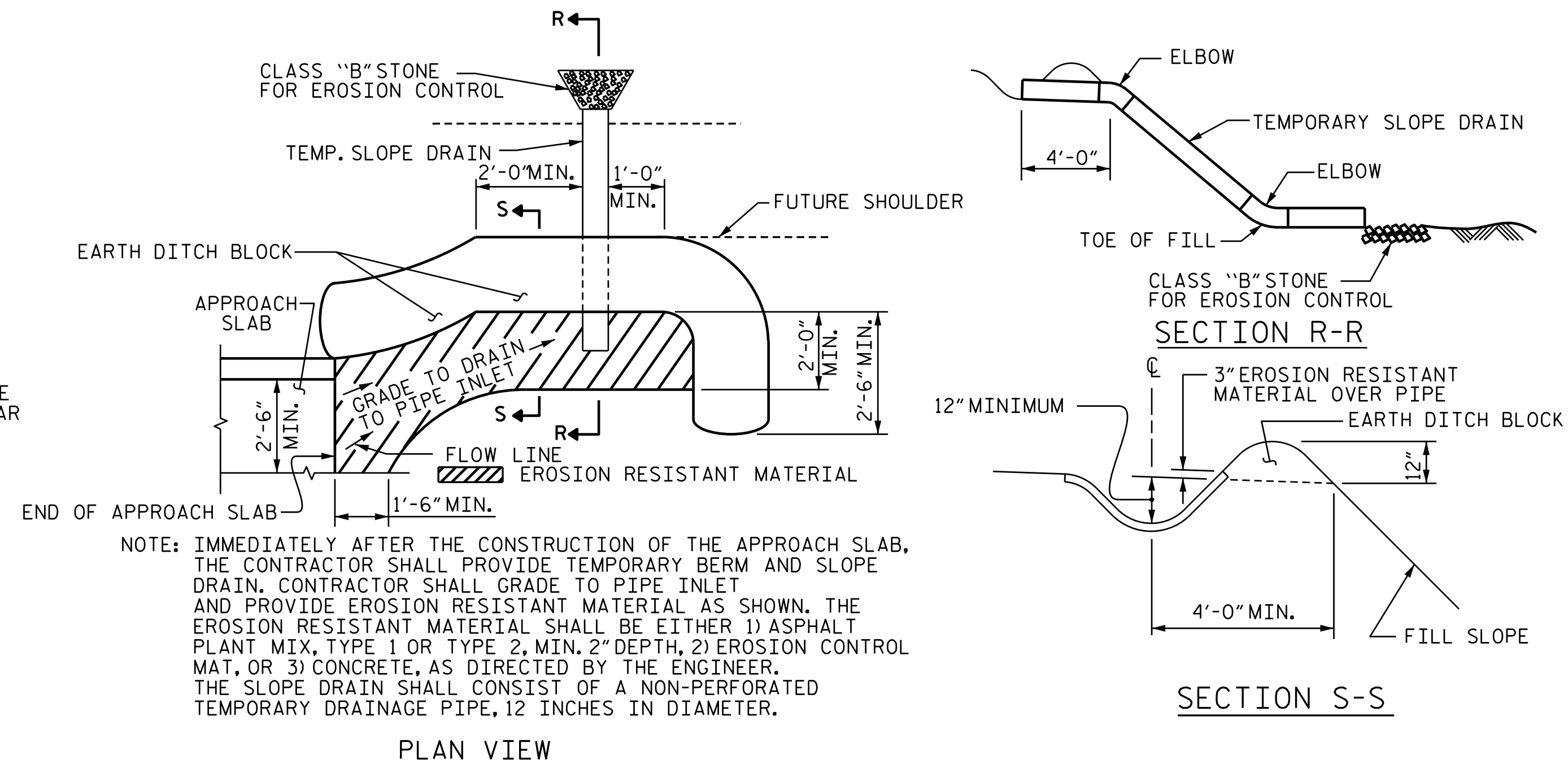
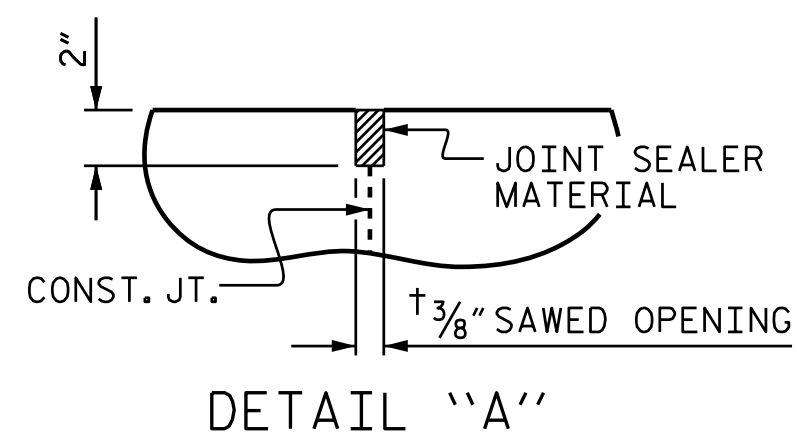
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	DIVISION 06 ROBESON/CUMBERLAND COUNTY		
	PLAN DATE: JULY 2022	REVIEWED BY: E. LYNCH	
PREPARED BY: C. WONG/T. BLANG	REVIEWED BY: C. DAGERHARDT	REVISIONS: _____ INIT. DATE	
SCALE: 0 _____ 50		SIGNATURE: _____ DATE: 11/2022	

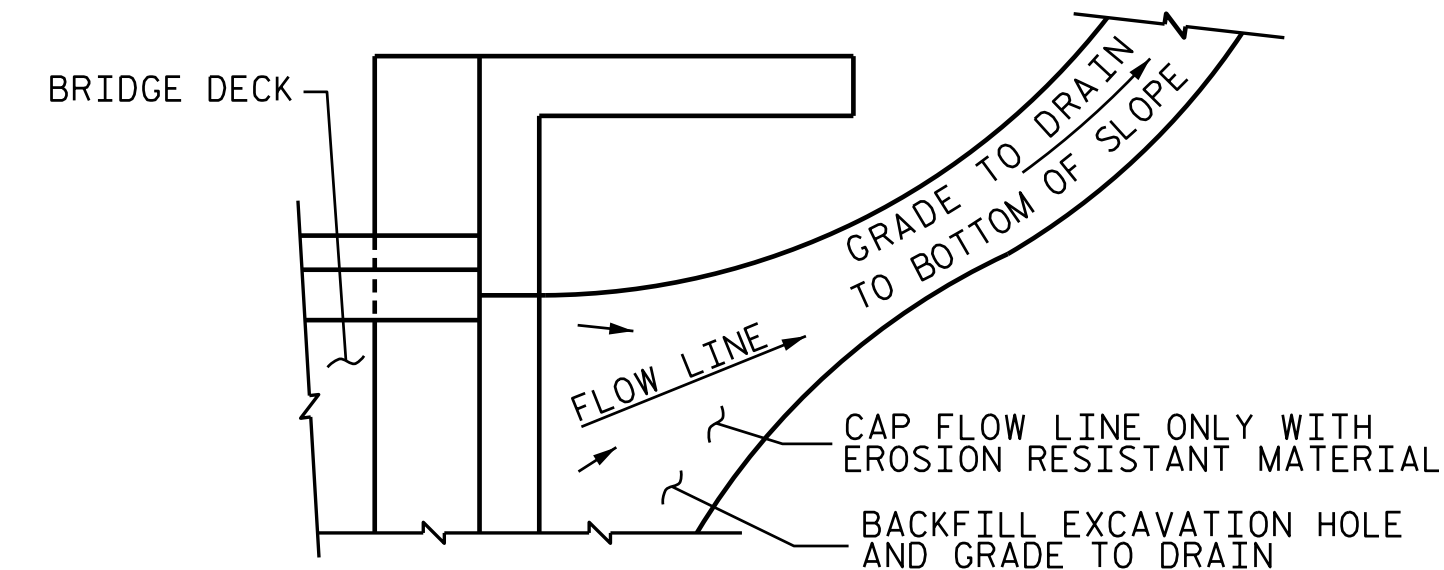


SECTION THRU SLAB
(SPECIAL BRIDGE APPROACH FILL)



TEMPORARY BERM AND SLOPE DRAIN DETAILS

(TO BE USED WHEN SHOULDER BERM GUTTER IS REQUIRED)



NOTE: IF THE APPROACH SLAB IS NOT CONSTRUCTED IMMEDIATELY AFTER THE BACKFILLING OF THE END BENT EXCAVATION, GRADE TO DRAIN TO THE BOTTOM OF THE SLOPE AND PROVIDE EROSION RESISTANT MATERIAL, SUCH AS FIBERGLASS ROVING OR AS DIRECTED BY THE ENGINEER TO PREVENT SOIL EROSION AND TO PROTECT THE AREA ADJACENT TO THE STRUCTURE. THE CONTRACTOR WILL BE REQUIRED TO REMOVE THESE MATERIALS PRIOR TO CONSTRUCTION OF THE APPROACH SLAB.

TEMPORARY DRAINAGE DETAIL

NOTES

APPROACH SLAB SHALL NOT BE CONSTRUCTED PRIOR TO COMPLETION OF THE BRIDGE DECK.

FOR TEMPORARY GEOTEXTILE WALL INCLUDING GEOTEXTILE, 6" Ø DRAINAGE PIPE, WELDED WIRE FORM, AND SELECT MATERIAL, SEE ROADWAY PLANS.

GEOTEXTILE (TYPE 1 OR TYPE 5) SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 1056.

SELECT MATERIAL BACKFILL (CLASS V OR CLASS VI) SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 1016.

SELECT MATERIAL BACKFILL IS TO BE CONTINUOUS ALONG FILL FACE OF BACKWALL FROM OUTSIDE EDGE TO OUTSIDE EDGE OF APPROACH SLAB.

AREA BETWEEN THE WINGWALL AND APPROACH SLAB SHALL BE GRADED TO DRAIN THE WATER AWAY FROM THE FILL FACE OF THE BRIDGE AND SHALL BE PAVED. SEE ROADWAY PLANS.

THE JOINT OPENING AT THE APPROACH SLAB/DECK INTERFACE SHALL BE SAWED NO MORE THAN 12 HOURS AFTER THE APPROACH SLAB IS CAST. THE JOINT SHALL BE CLEANED OF ALL DEBRIS BEFORE THE SEALANT IS APPLIED. THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1028-3 OF THE STANDARD SPECIFICATIONS.

FOR SPECIAL BRIDGE APPROACH FILL, SEE SPECIAL PROVISIONS.

PROJECT NO. I-5987B
ROBESON COUNTY
STATION: 24+76.86 -Y4-

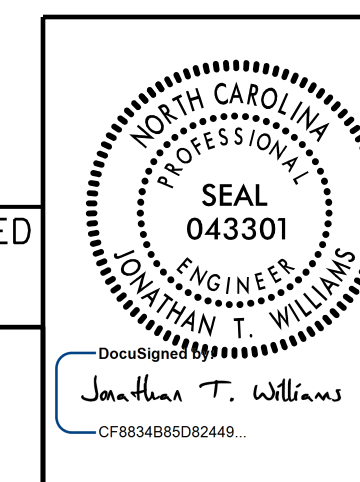
SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

BRIDGE APPROACH
SLAB DETAILS

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

PLANS PREPARED BY:
MOTT MACDONALD
PO Box 700
Fuquay-Varina, NC 27526
(919) 552-2253
www.mottmac.com
LICENSE NO. F-0669



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S4-29
1			3			TOTAL SHEETS
2			4			29