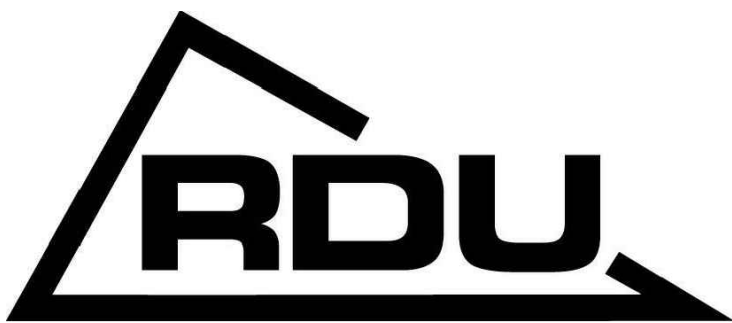
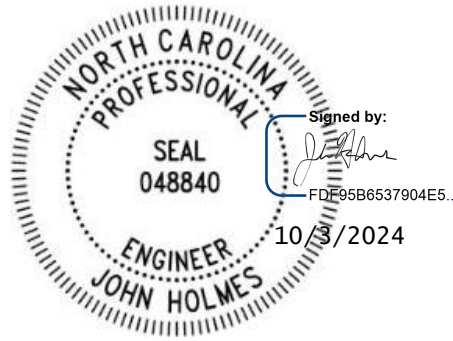
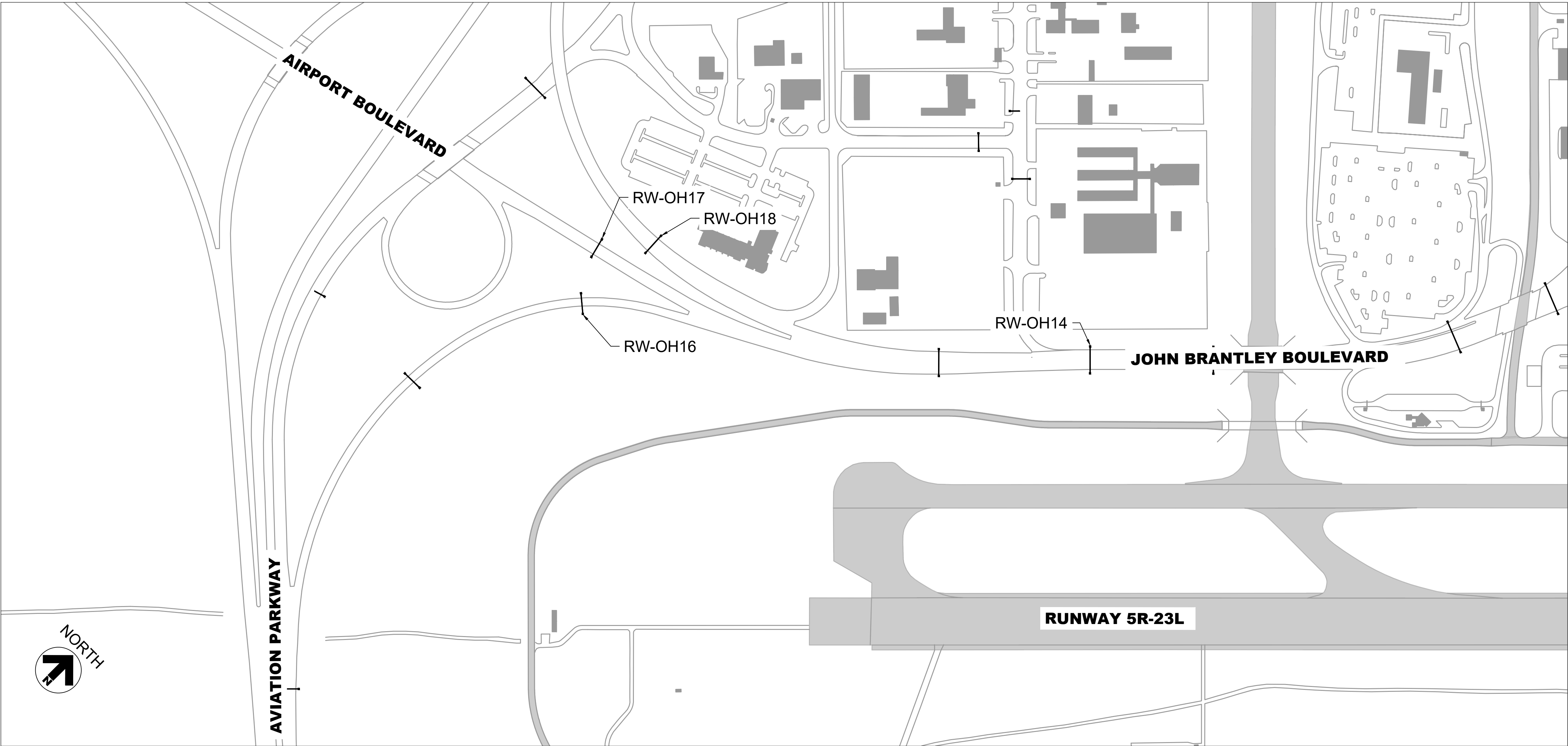


# RALEIGH-DURHAM INTERNATIONAL AIRPORT

RALEIGH, NORTH CAROLINA

## ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE

RS&H PROJECT NUMBER: 1051-0068-002



RALEIGH-DURHAM  
AIRPORT AUTHORITY

BIDDING DOCUMENTS  
APRIL 2024

DRAWINGS PREPARED BY:

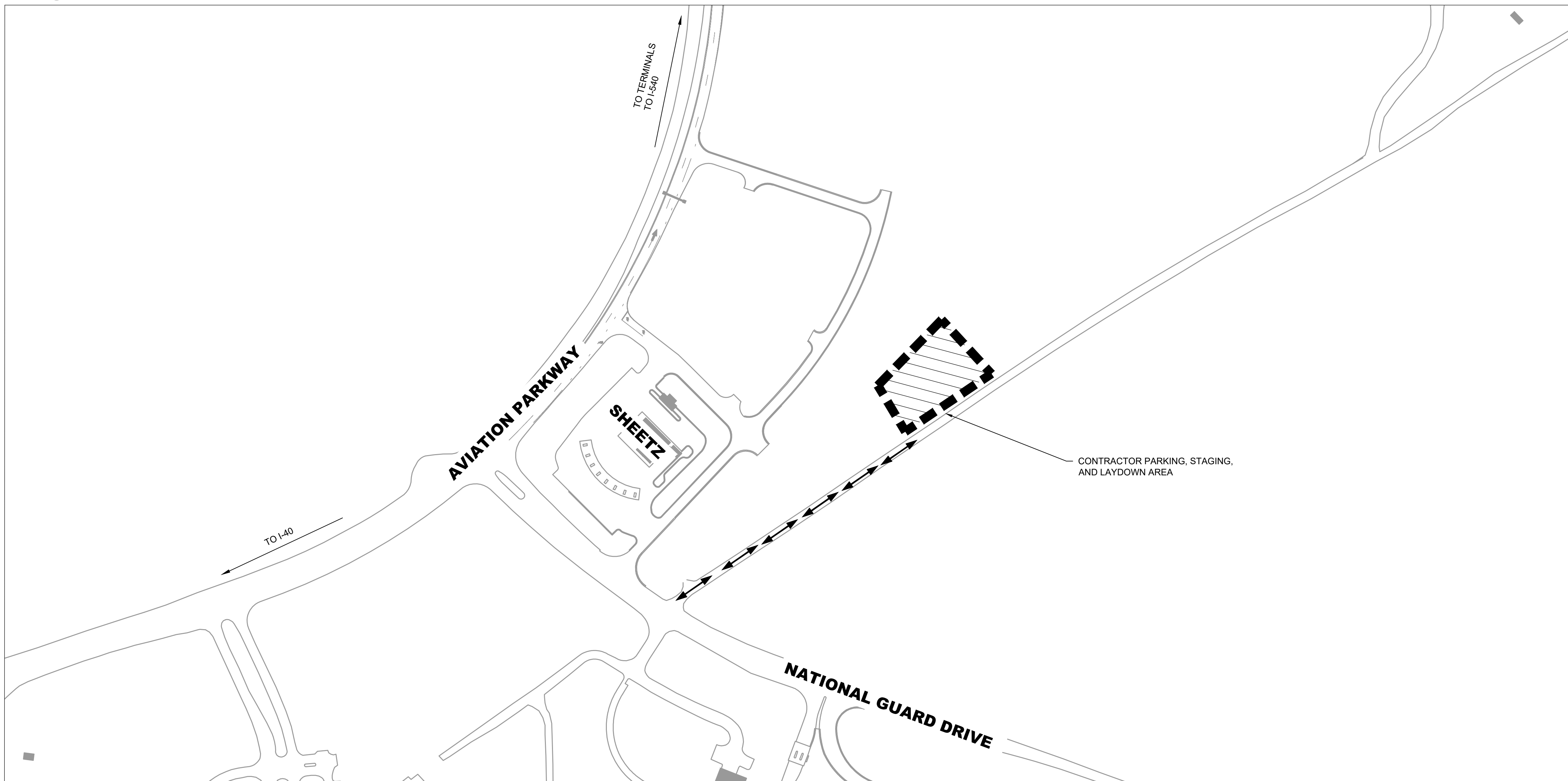
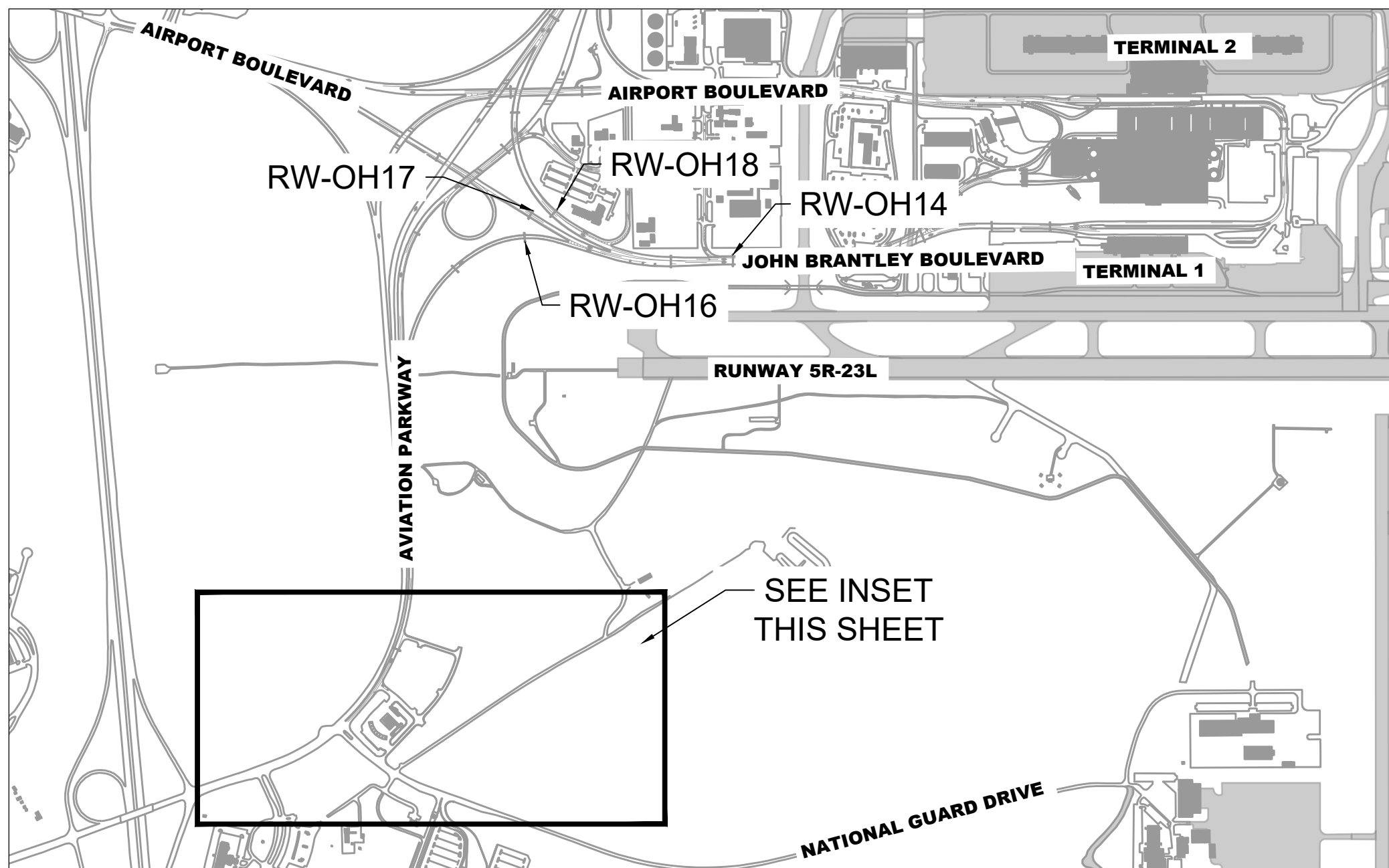


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RALEIGH, NC 27615  
PH (919) 926-4100  
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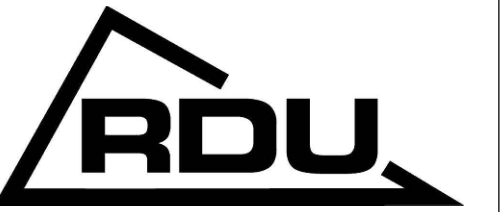




## NOTES

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50073 \* F-0493 \* C-28**

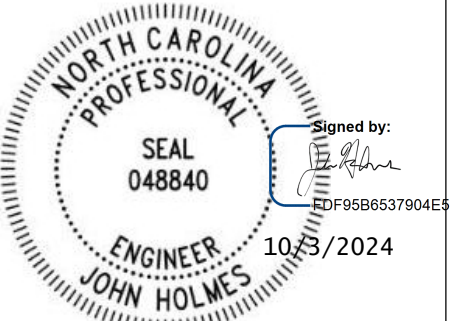


**RALEIGH-DURHAM  
INTERNATIONAL AIRPORT**

**RALEIGH, NC**

## ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE

**ENGINEER'S SEAL**



**NOT RELEASED FOR  
CONSTRUCTION**

---

**CONSULTANTS**

## REVISIONS

[illegible]

**DATE ISSUED:     APRIL 16, 2024**

REVIEWED BY: JLH

**DRAWN BY:** MEO

DESIGNED BY: JLH

**AEP PROJECT NUMBER**

**1051-0068-002**

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**SHEET TITLE**

**CONTRACTOR  
STAGING  
AREA**

**SHEET NUMBER**

## G02.01

## BIDDING DOCUMENTS





[illegible]

- | INCLUDED OVERHEAD SIGNS | DURATION | ALLOWABLE SHIFT FOR CONSTRUCTION | TRAFFIC CONTROL PLAN SHEETS |
|-------------------------|----------|----------------------------------|-----------------------------|
| RW-OH14 - PHASE 1A      | 4        | SAT./SUN. DAY, 9AM-3:30PM        | C01.01                      |
| RW-OH14 - PHASE 1B      | 4        | SAT./SUN. DAY, 9AM-3:30PM        | C01.02                      |
| RW-OH14 - PHASE 1C      | 1        | SAT./SUN. NIGHT, 11PM-3:30AM     | C01.03, C01.04, C01.05      |
| RW-OH16 - PHASE 2       | 1        | SAT./SUN. NIGHT, 11PM-3:30AM     | C01.06, C01.07              |
| RW-OH17 - PHASE 3       | 1        | SAT./SUN. NIGHT, 11PM-3:30AM     | C01.08                      |
| RW-OH18 - PHASE 4       | 1        | SAT./SUN. DAY, 9AM-3:30PM        | C01.09                      |

1. SEE SHEET C02.01 FOR GENERAL TRAFFIC CONTROL NOTES.
2. SEE SHEETS C03.01-C04.03 FOR RELATED TRAFFIC CONTROL NOTES AND DETAILS. ALL TRAFFIC CONTROL DEVICES MUST CONFORM TO MUTCD STANDARDS AND THE 2024 NCDOT ROADWAY STANDARDS MANUAL.
3. AREAS AND PHASES TO BE COMPLETED IN THE SEQUENCE SHOWN ON THE PLANS.
4. ALL MOBILIZATION, WORK, AND CLEAN UP EFFORTS MUST TAKE PLACE WITHIN THE SHOWN SHIFT DURATIONS EXCEPT FOR TRAFFIC CONTROL DEVICES, WHICH CAN BEGIN BEING PLACED ON ROADSIDES UP TO ONE HOUR BEFORE THE SHIFT TIME PRESCRIBED. NO ROADWAYS SHALL BE CLOSED OUTSIDE OF THE PRESCRIBED WORK SHIFTS.
5. IF TRAFFIC CONTROL DEVICES CAN BE REMOVED PRIOR TO REOPENING TO TRAFFIC AND SHALL BE COMPLETED DURING THE PRESCRIBED SHIFT FOR CONSTRUCTION, ROADWAYS SHALL BE CONSIDERED CLOSED UNTIL TRAFFIC CONTROL DEVICES HAVE BEEN REMOVED OR RELOCATED TO ROADSIDES.
6. AFTER TRAFFIC CONTROL DEVICES ARE INSTALLED, CONTRACTOR SHALL NOT BEGIN WORK UNTIL THE DEVICES ARE INSPECTED AND ACCEPTED BY THE RDUAAC CPM. CPM RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES OR RELOCATION OF MEASURES AT NO ADDITIONAL COST TO THE OWNER.
7. AT THE END OF EACH SHIFT, THE CONTRACTOR MUST HAVE REPLACED ALL SIGNS AND LIGHTING THAT WERE REMOVED PRIOR TO REOPENING TRAFFIC. IF THE PANEL IS NOT REPLACED BY THE END OF THE CONSTRUCTION SHIFT, THE CONTRACTOR SHALL KEEP THE AREA CLOSED UNTIL IT IS COMPLETED, UNLESS OTHERWISE DIRECTED BY THE RDUAAC CPM OR RDUAAC.
8. DURATIONS SHOWN ARE THE NUMBER OF SHIFTS ALLOTTED FOR EACH AREA TO BE COMPLETED IN. THE SHIFT DURATION IS SHOWN IN THE "ALLOWABLE SHIFT FOR CONSTRUCTION" COLUMN FOR EACH AREA.
9. SOME AREAS MAY BE ABLE TO EXTEND THE SHIFT DURATIONS OR WORK ON NIGHTS NOT LISTED. THE CONTRACTOR SHALL COORDINATE THESE REQUESTS WITH THE RDUAAC CPM. THE CONTRACTOR CAN SUGGEST ALTERNATIVE PHASING DURATIONS AND SUBMIT TO THE RDUAAC CPM AND ENGINEER FOR REVIEW AND APPROVAL. REQUESTS FOR PHASING CHANGES ARE NOT GUARANTEED. REQUESTS SHALL BE MADE 14 DAYS IN ADVANCE OF THE EXPECTED WORK.
10. THE CONTRACTOR SHALL PROVIDE A WORK SEQUENCE AND PHASING PROPOSAL FOR THE PROJECT, INCLUDING WHICH SIGNS ARE INTENDED TO BE INSTALLED AND WHEN THIS WORK SHALL OCCUR FOR APPROVAL.

[illegible]

Plotted on: 9/30/2024 2:44 PM      Plotted by: Zych, Kaitlyn  
Drawing: C:\pw\work\sh\_pw\pw\_user\0453920\G03.00.dwg

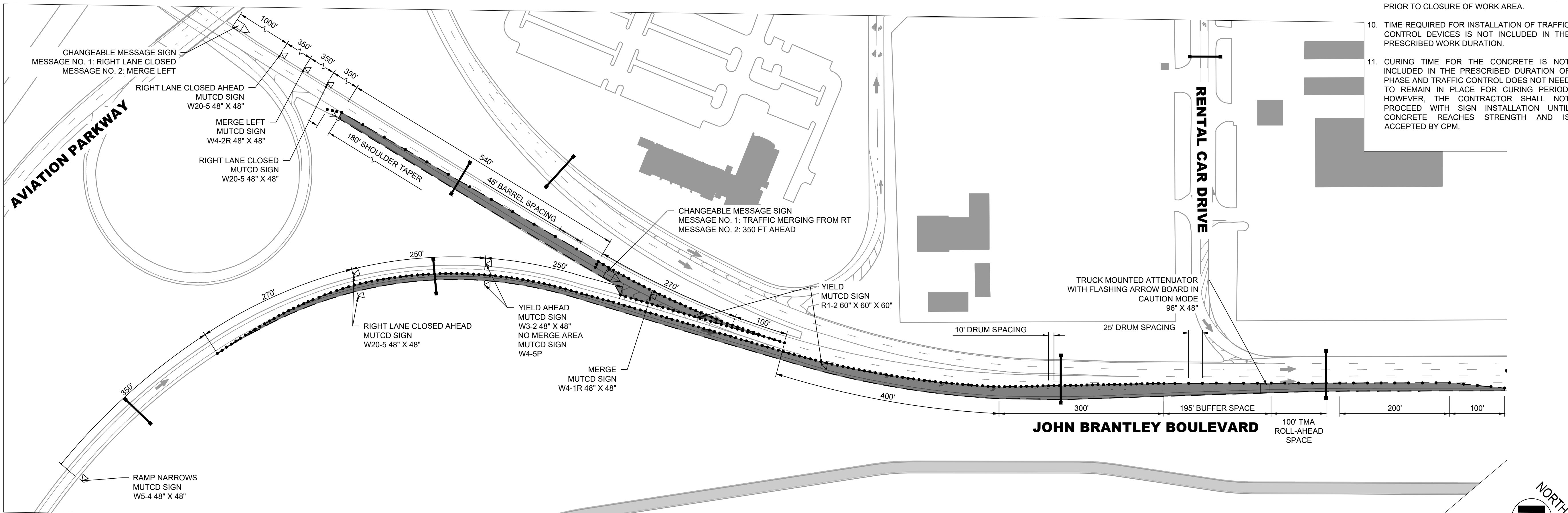






1  
C01.02

**SCALE: 1" = 300'**



2  
C01.02

**INSET**

**SCALE: 1" = 100'**

**SCALE: 1" = 100'**

## BARRICADE

1. THIS TRAFFIC CONTROL PLAN IS FOR THE INSTALLATION OF THE STRUCTURAL BRACING ON THE EASTERN SIDE OF THE SIGN.
2. WORK SHALL ONLY BE COMPLETED ON ONE SIDE OF THE SIGN AT A TIME.
3. STRUCTURAL BRACES SHALL BE INSTALLED AND ACCEPTED PRIOR TO INSTALLING THE NEW SIGN PANEL. THIS IS INCLUSIVE OF TIME FOR CURING OF CONCRETE AND TESTING. CURING TIME IS NOT INCLUDED IN PHASE DURATION.
4. SEE NCDOT DETAIL 1101.02 SHEET 3 OF 19 FOR DIVIDED MULTI-LANE ROADWAY - 1 LANE CLOSED (FOR ROADWAYS < 60 MPH).
5. SEE NCDOT DETAIL 1101.02 SHEET 10 OF 19 FOR RIGHT LANE CLOSURES THRU ENTRANCE RAMPS.
6. ALL CONSTRUCTION TRAFFIC CONTROL SHALL FOLLOW NCDOT STANDARDS UNLESS OTHERWISE DEPICTED OR APPROVED BY THE RDUAA CPM.
7. LOCATIONS DEPICTED FOR TRAFFIC CONTROL DEVICES ARE NOT TO SCALE. REFER TO STATED DIMENSIONS WHERE APPLICABLE.
8. CONTRACTOR SHALL HAVE PRESCRIBED DURATION TO PERFORM THE WORK DEPICTED.
9. TRAFFIC CONTROL DEVICES SHALL BE COMPLETELY IN PLACE AND ACCEPTED BY CPM PRIOR TO CLOSURE OF WORK AREA.
10. TIME REQUIRED FOR INSTALLATION OF TRAFFIC CONTROL DEVICES IS NOT INCLUDED IN THE PRESCRIBED WORK DURATION.
11. CURING TIME FOR THE CONCRETE IS NOT INCLUDED IN THE PRESCRIBED DURATION OF PHASE AND TRAFFIC CONTROL DOES NOT NEED TO REMAIN IN PLACE FOR CURING PERIOD; HOWEVER, THE CONTRACTOR SHALL NOT PROCEED WITH SIGN INSTALLATION UNTIL CONCRETE REACHES STRENGTH AND IS ACCEPTED BY CPM.

**NOT RELEASED FOR  
CONSTRUCTION**

---

**CONSULTANTS**

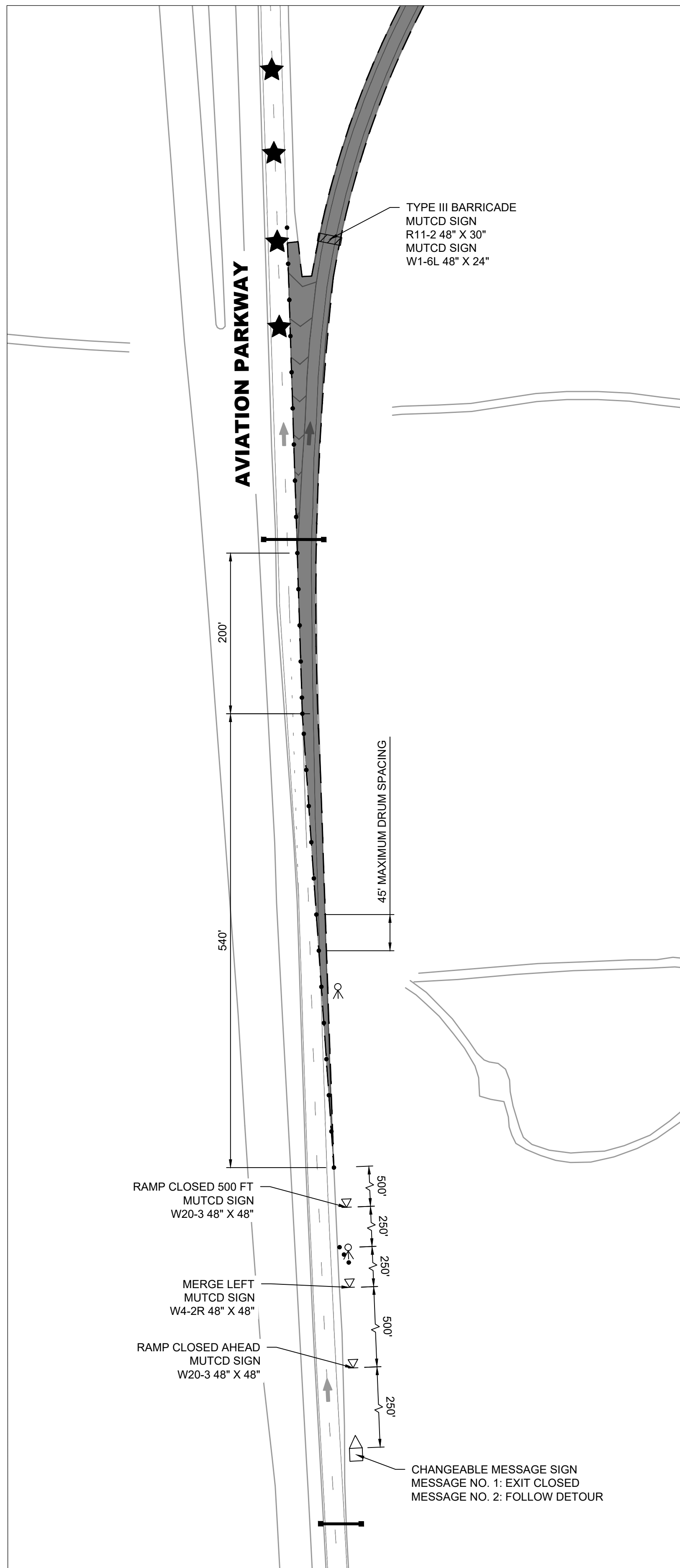
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## BIDDING DOCUMENTS





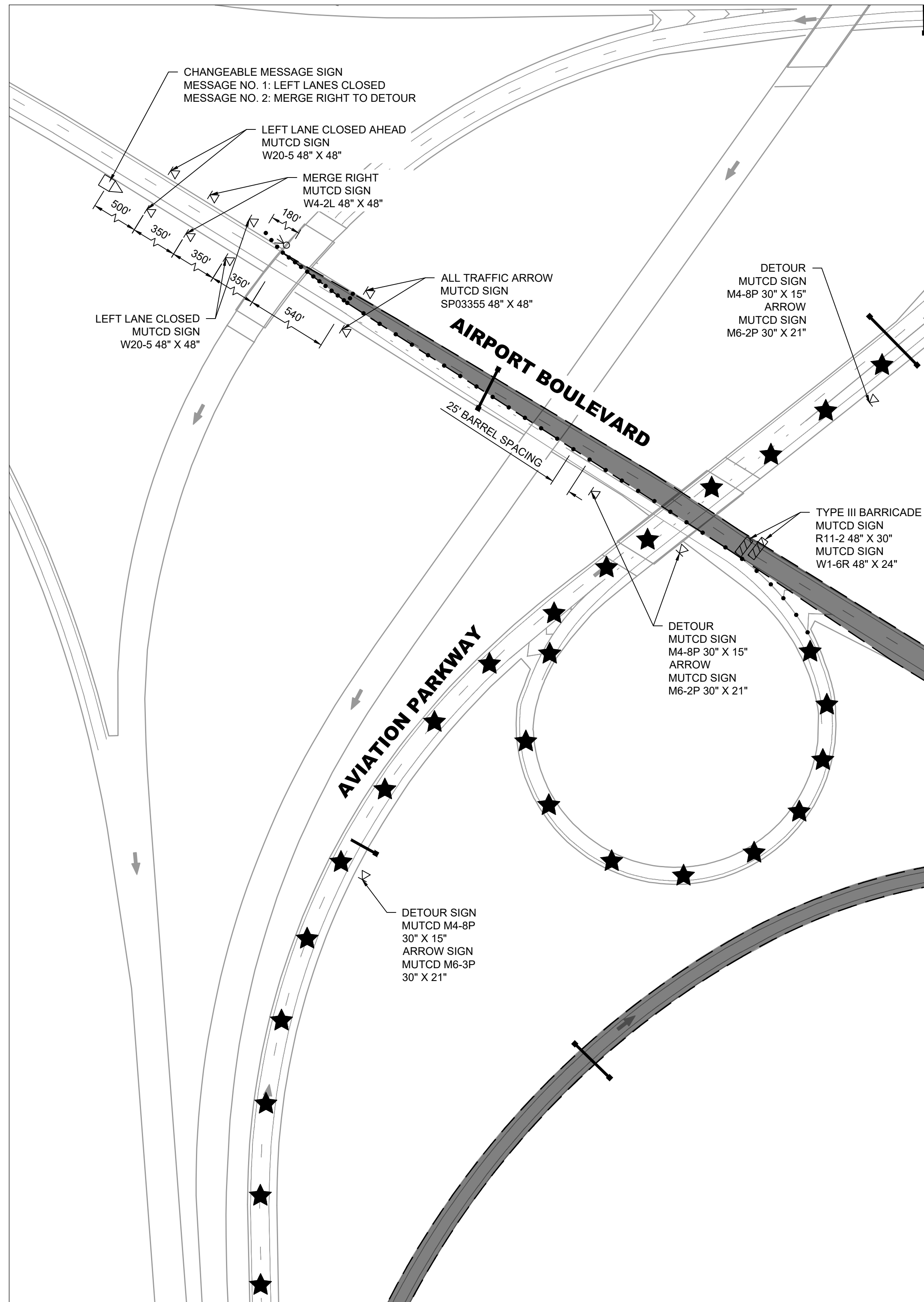




**INSET A**

1  
C01.04

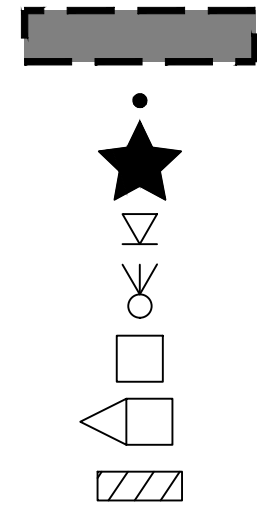
**SCALE: 1" = 100'**



**INSET B**

**SCALE: 1" = 100'**

## LEGEND

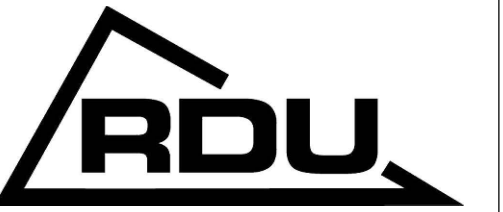


## NOTES

1. THIS TRAFFIC CONTROL PLAN IS FOR THE INSTALLATION OF THE SIGN EXTENSION PANEL.
2. STRUCTURAL BRACES SHALL BE INSTALLED AND ACCEPTED PRIOR TO INSTALLING THE NEW SIGN PANEL. THIS IS INCLUSIVE OF TIME FOR CURING OF CONCRETE AND TESTING. CURING TIME IS NOT INCLUDED IN PHASE DURATION.
3. SEE NCDOT DETAIL 1101.02 SHEET 10 OF 19 FOR RIGHT LANE CLOSURES THRU ENTRANCE RAMPS.
4. ALL CONSTRUCTION TRAFFIC CONTROL SHALL FOLLOW NCDOT STANDARDS UNLESS OTHERWISE DEPICTED OR APPROVED BY THE RDUA CPMP.
5. LOCATIONS DEPICTED FOR TRAFFIC CONTROL DEVICES ARE NOT TO SCALE. REFER TO STATED DIMENSIONS WHERE APPLICABLE.
6. CONTRACTOR SHALL HAVE PRESCRIBED DURATION TO PERFORM THE WORK DEPICTED.
7. TRAFFIC CONTROL DEVICES SHALL BE COMPLETELY IN PLACE AND ACCEPTED BY CPM PRIOR TO CLOSURE OF WORK AREA.
8. TIME REQUIRED FOR INSTALLATION OF TRAFFIC CONTROL DEVICES IS NOT INCLUDED IN THE PRESCRIBED WORK DURATION.

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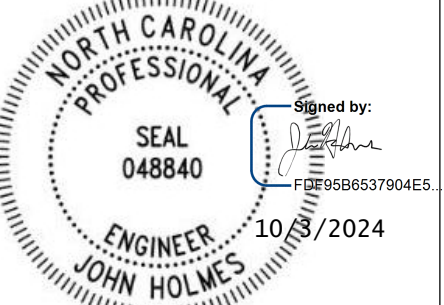


**RALEIGH-DURHAM  
INTERNATIONAL AIRPORT**

**RALEIGH, NC**

## ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE

**ENGINEER'S SEAL**



**NOT RELEASED FOR  
CONSTRUCTION**

---

**CONSULTANTS**

## REVISIONS

[illegible]

**DATE ISSUED:      APRIL 16, 2024**

REVIEWED BY: JLH

DRAWN BY: MEO

DESIGNED BY: JLH

**AEP PROJECT NUMBER**  
**1051-0068-002**  
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**SHEET TITLE**  
**TRAFFIC**  
**CONTROL -**  
**RW-OH14**  
**PHASE 1C**  
**(2 OF 3)**

**SHEET NUMBER**

## C01.04

## BIDDING DOCUMENTS



















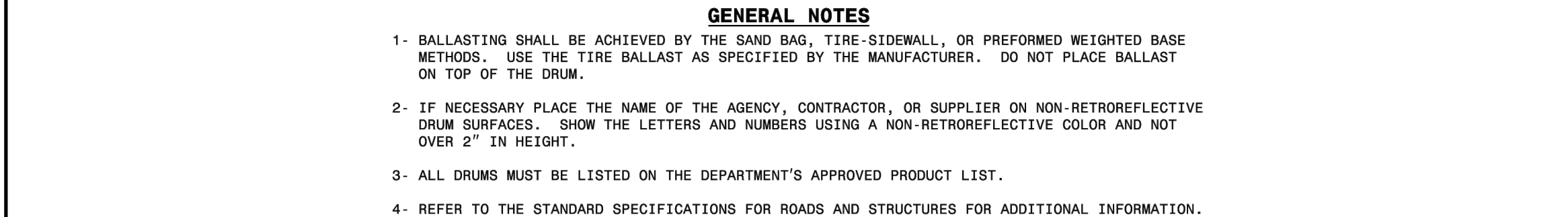




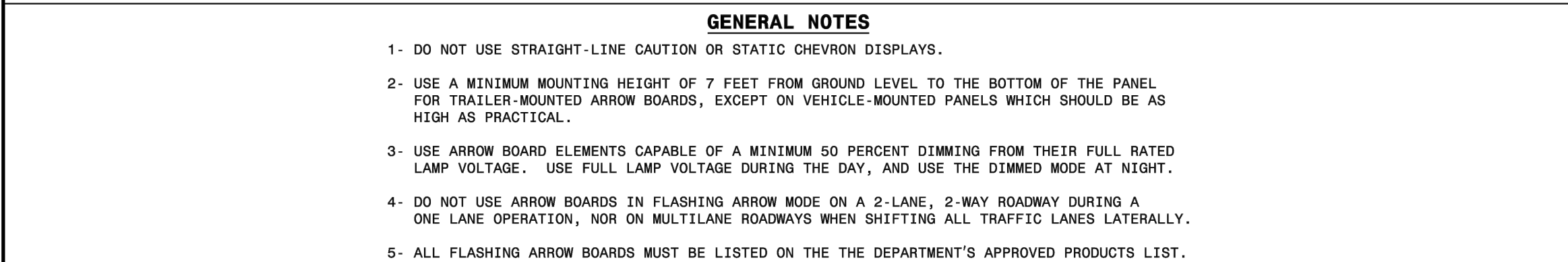








SHEET 1 OF 1	
1130.01	



**28 INCH CONE**  
(MINIMUM SIZE CONE FOR ALL CLASSES OF ROADS EXCEPT FREEWAYS AND INTERSTATES)

28" MINIMUM

3" TO 4"

6"

2" MIN.

4"

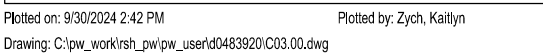
WHITE RETROREFLECTIVE ADHESIVE SHEETING REQUIRED BETWEEN DUSK AND DAWN

ORANGE ULTRA-VIOLET STABILIZED IMPACT RESISTANT PLASTIC

19 3/4" MINIMUM BASE SIZE

GENERAL NOTES	
1.	ACHIEVE BALLASTING BY USING SPECIAL WEIGHTED BASES SUCH AS SAND BAG RINGS, DOUBLING CONES, OR BASES THAT CAN BE FILLED WITH BALLAST. SEVENTY PERCENT OF THE WEIGHT OF THE CONE MUST BE IN THE BASE. USE BALLAST'S THAT DO NOT PRESENT A HAZARD WHEN STRUCK.
2.	ALL CONES MUST BE LISTED ON THE DEPARTMENT'S APPROVED PRODUCTS LIST.

ROADWAY STANDARD DRAWING FOR  <div style="text-align: center;"><b>CONES</b></div>	1-24 NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
SHEET 1 OF 1 <div style="text-align: right;">1135.01</div>	







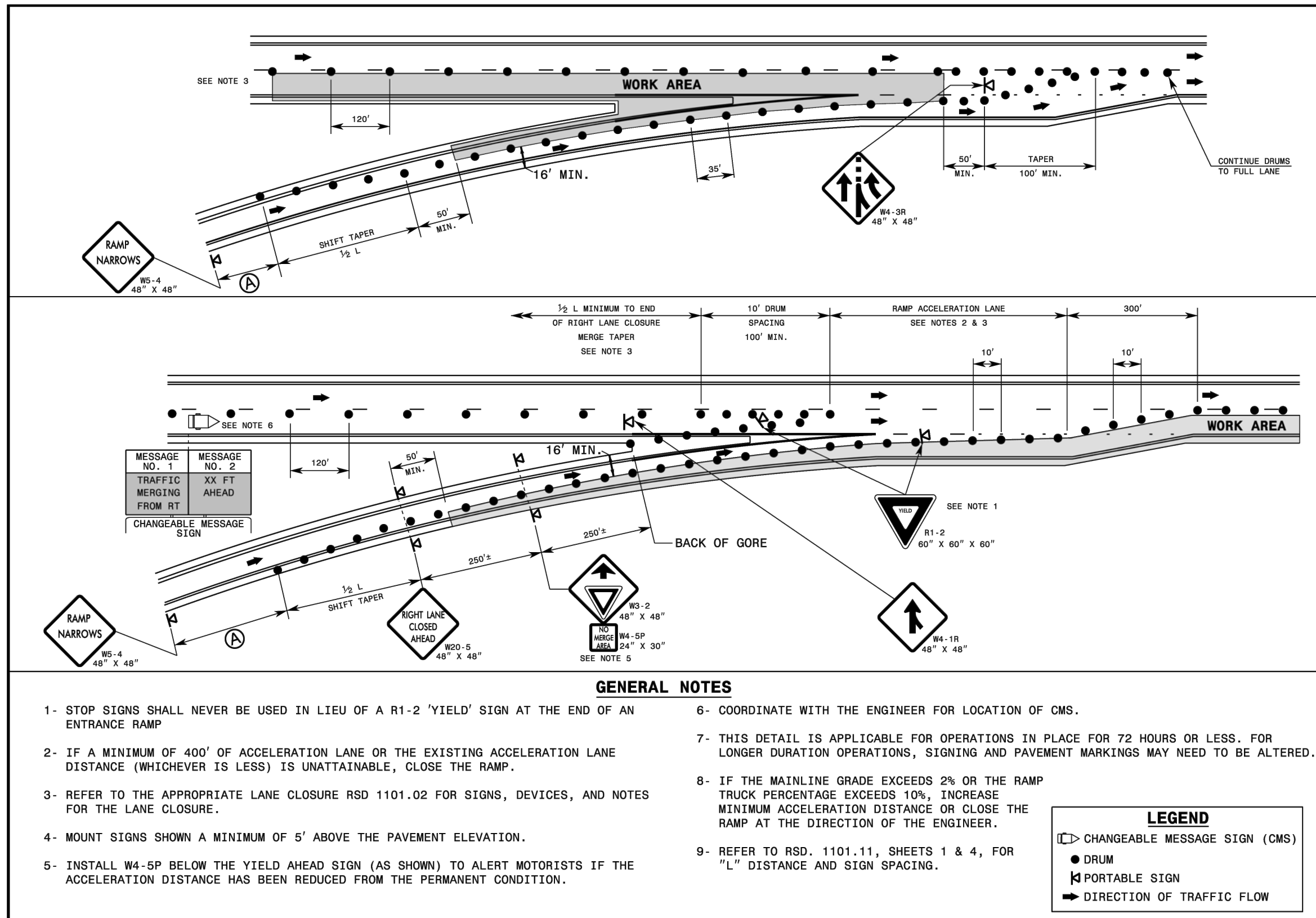








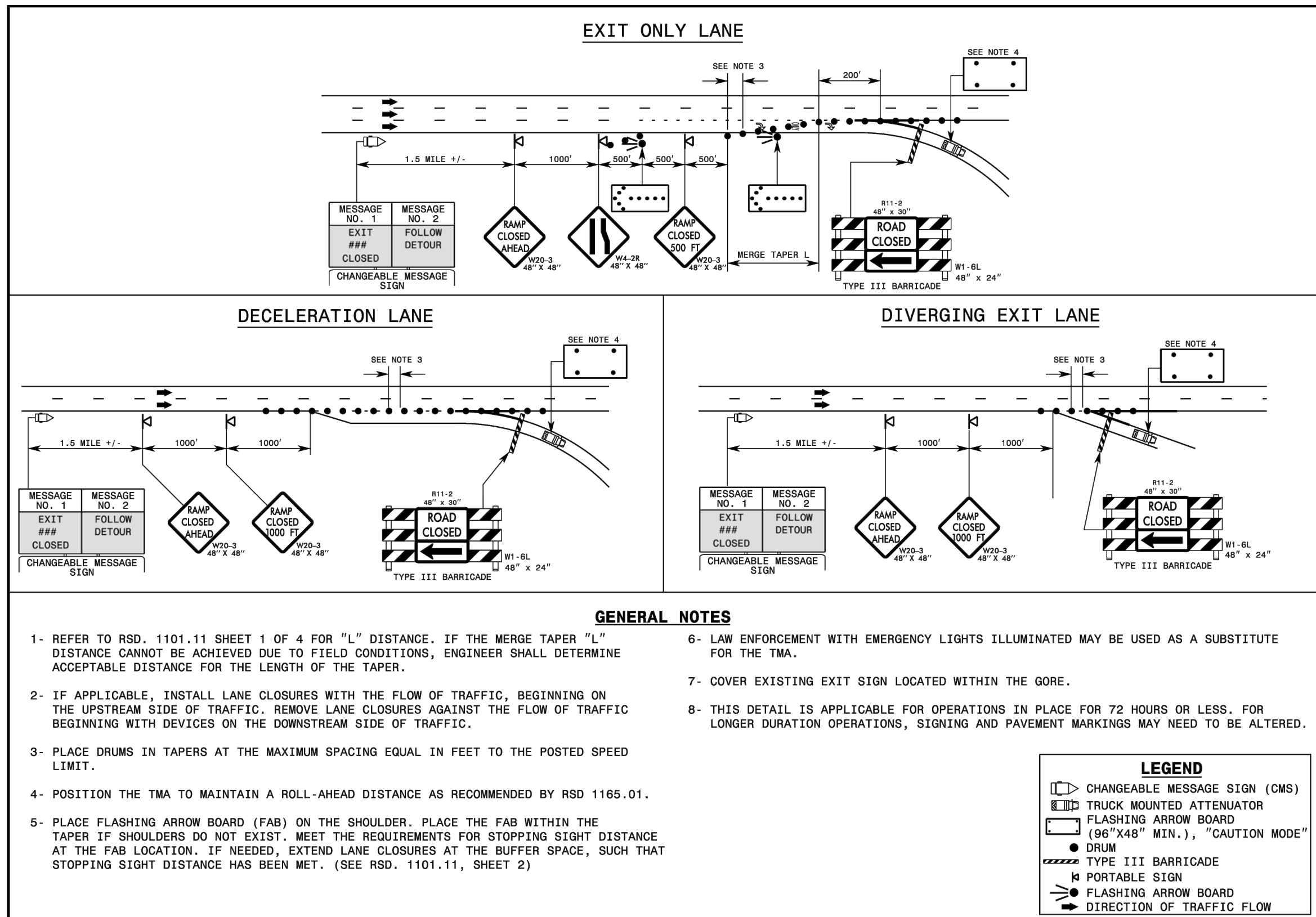




1-24 STATE OF  
NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
**TEMPORARY LANE CLOSURES**  
RIGHT LANE CLOSURES THRU ENTRANCE RAMP

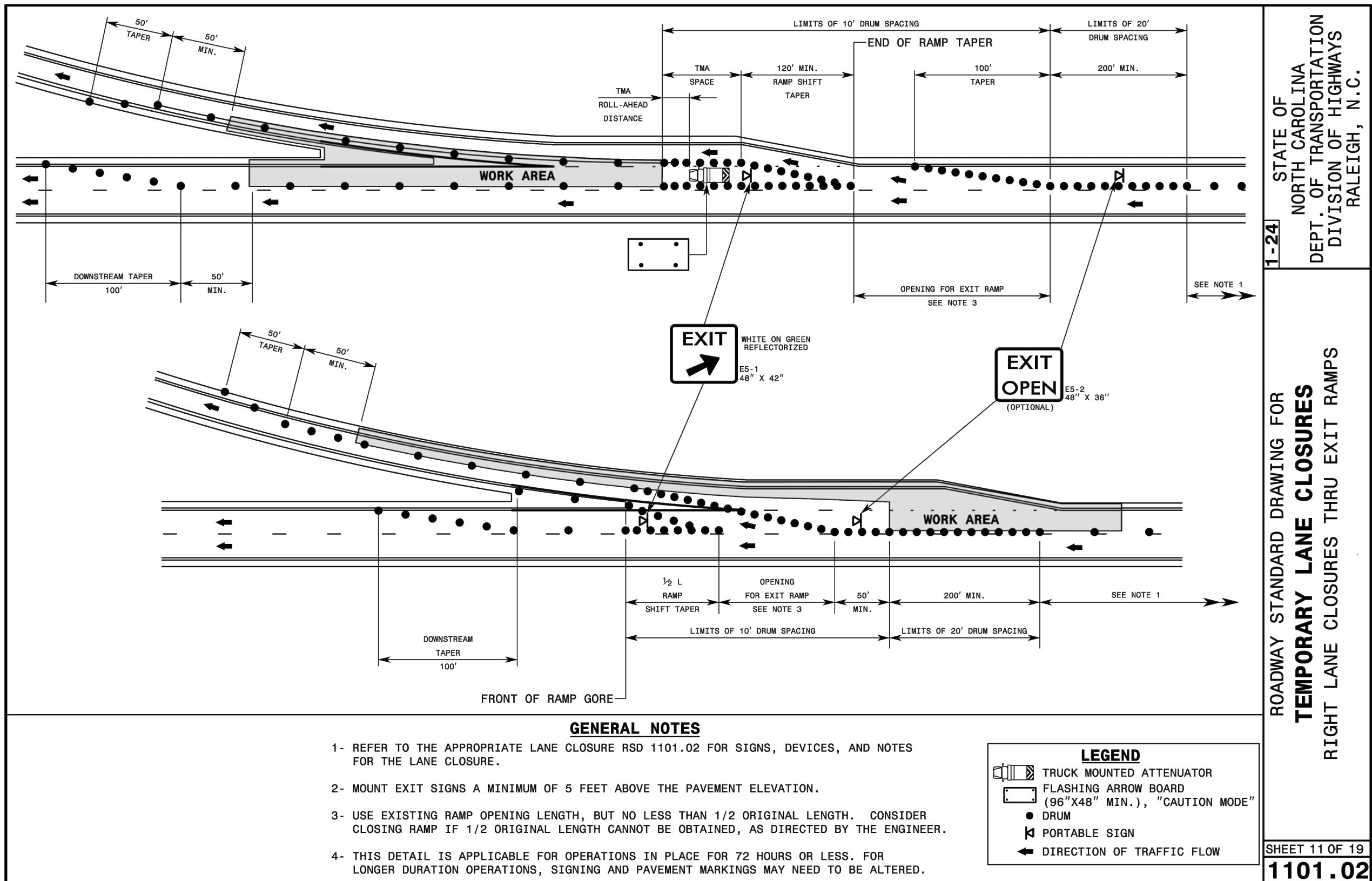
SHEET 10 OF 19  
**1101.02**



1-24 STATE OF  
NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

**ROADWAY STANDARD DRAWING FOR  
TEMPORARY RAMP CLOSURES  
CLOSURE OF OFF-RAMPS**

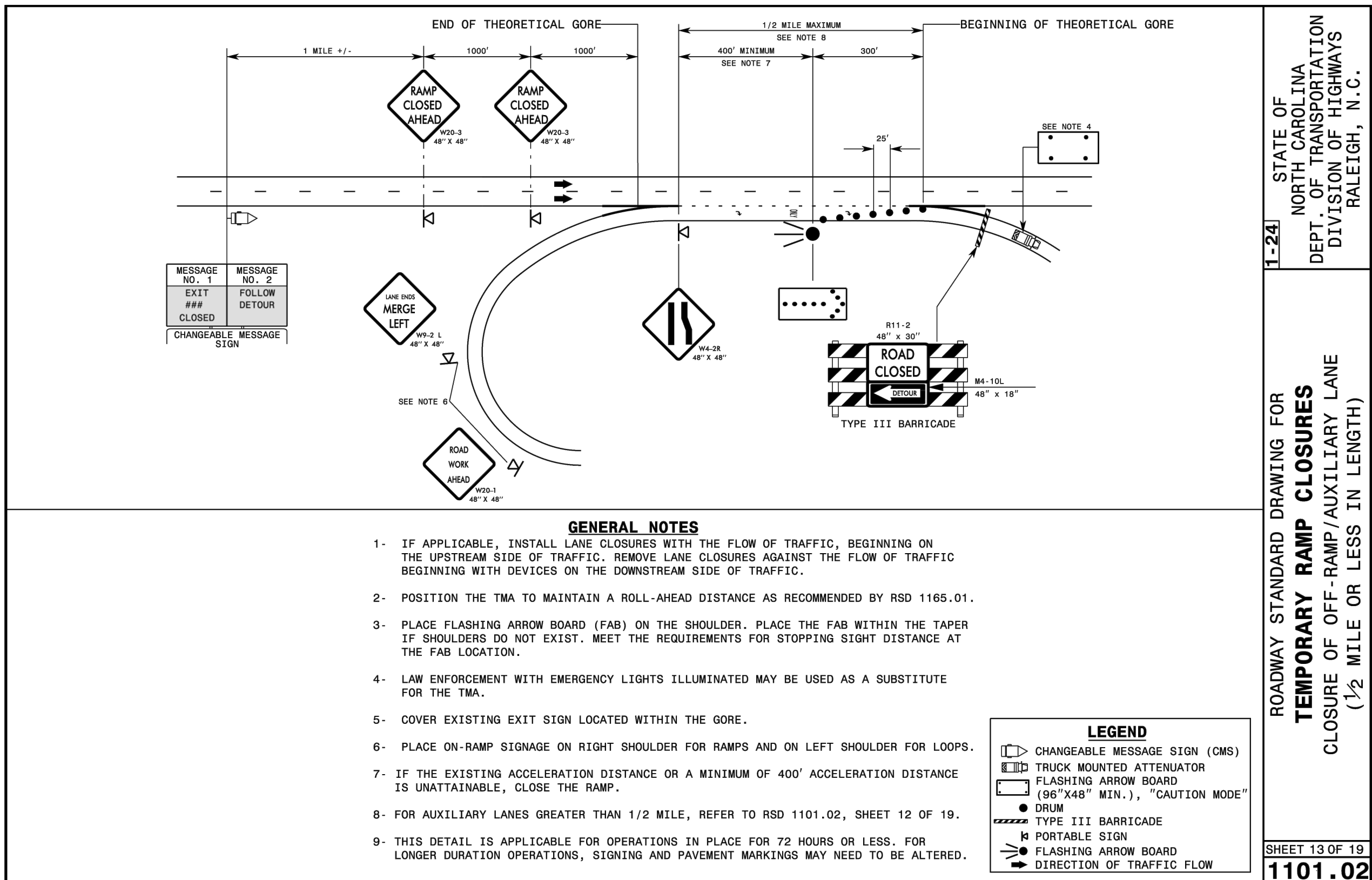
SHEET 12 OF 19  
**1101.02**



**11-24** STATE OF  
NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

# ROADWAY STANDARD DRAWING FOR TEMPORARY LANE CLOSURES RIGHT LANE CLOSURES THRU EXIT RAMP

SHEET 11 OF 19  
**1101.02**



**11-24** STATE OF  
NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
**TEMPORARY RAMP CLOSURES**  
CLOSURE OF OFF-RAMP/AUXILIARY LANE  
( $\frac{1}{2}$  MILE OR LESS IN LENGTH)

SHEET 13 OF 19  
**1101.02**

**RS&H** ®

---

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**RALEIGH-DURHAM  
INTERNATIONAL AIRPORT**

**RALEIGH, NC**

## ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE

**ENGINEER'S SEAL**

NORTH CAROLINA  
PROFESSIONAL  
SEAL  
048840  
ENGINEER  
JOHN HOLMES

Signed by: *John Holmes*  
10/7/2024  
EXP95B6537904E

**NOT RELEASED FOR  
CONSTRUCTION**

**CONSULTANTS**

[illegible]

<b>DATE ISSUED:</b>	<b>APRIL 16, 2024</b>
<b>REVIEWED BY:</b>	JLH
<b>DRAWN BY:</b>	MEO
<b>DESIGNED BY:</b>	JLH
<p align="center"><b>AEP PROJECT NUMBER</b>  <b>1051-0068-002</b></p> <p align="center">© 2024 RS&amp;H, INC.</p>	
<b>SHEET TITLE</b>	

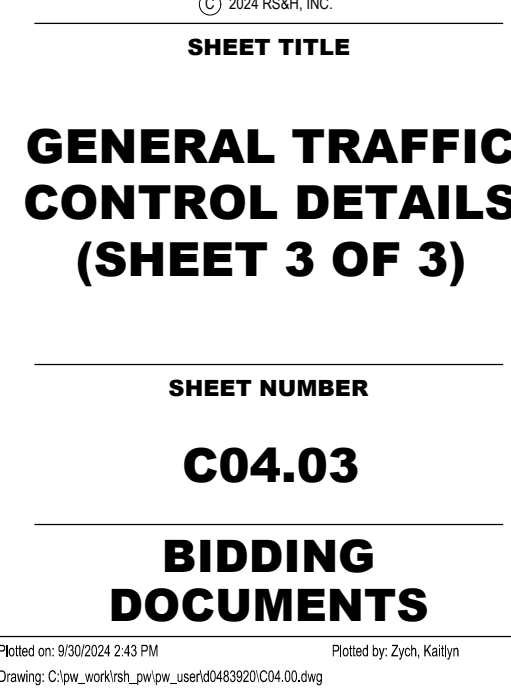
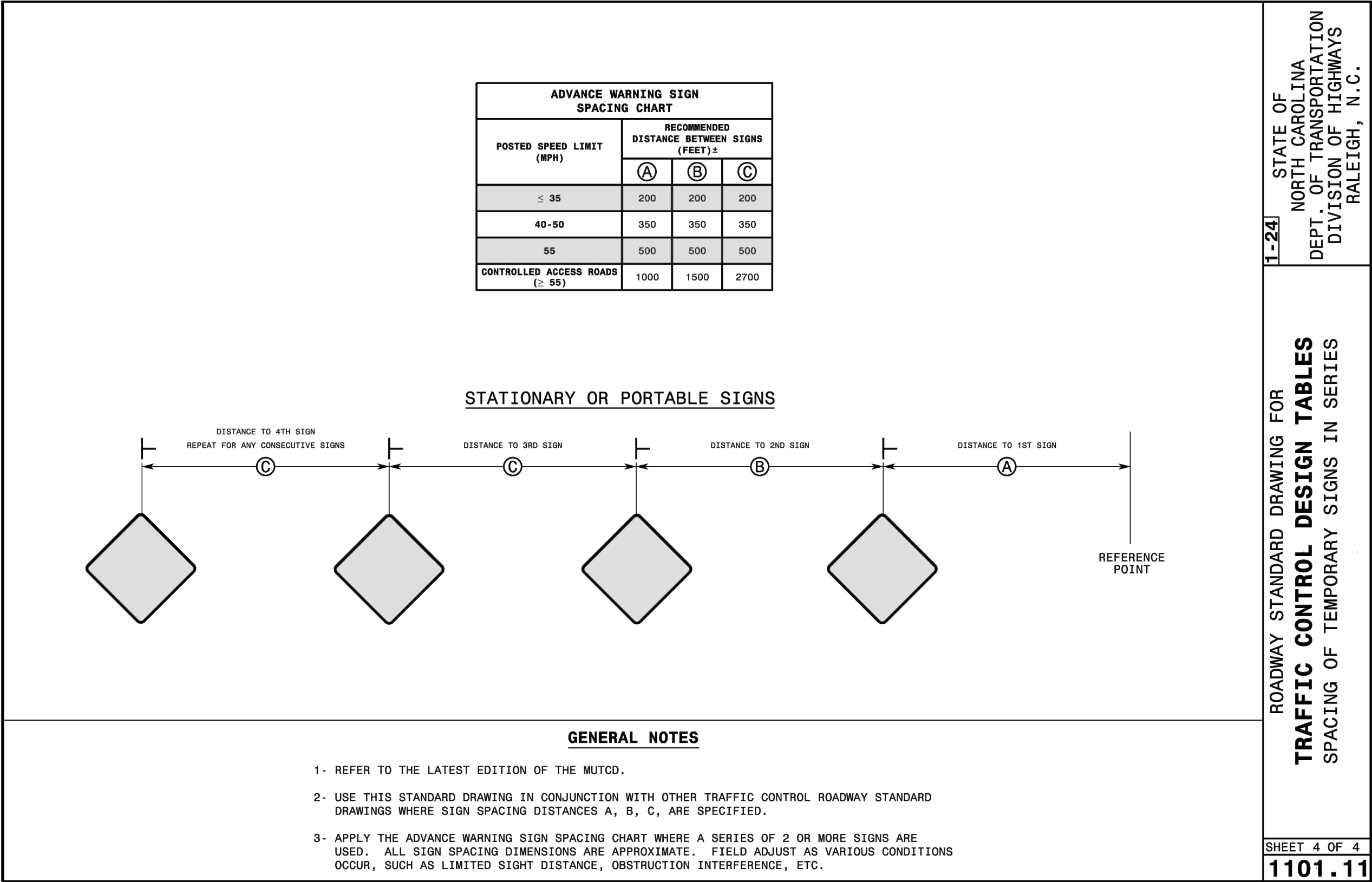
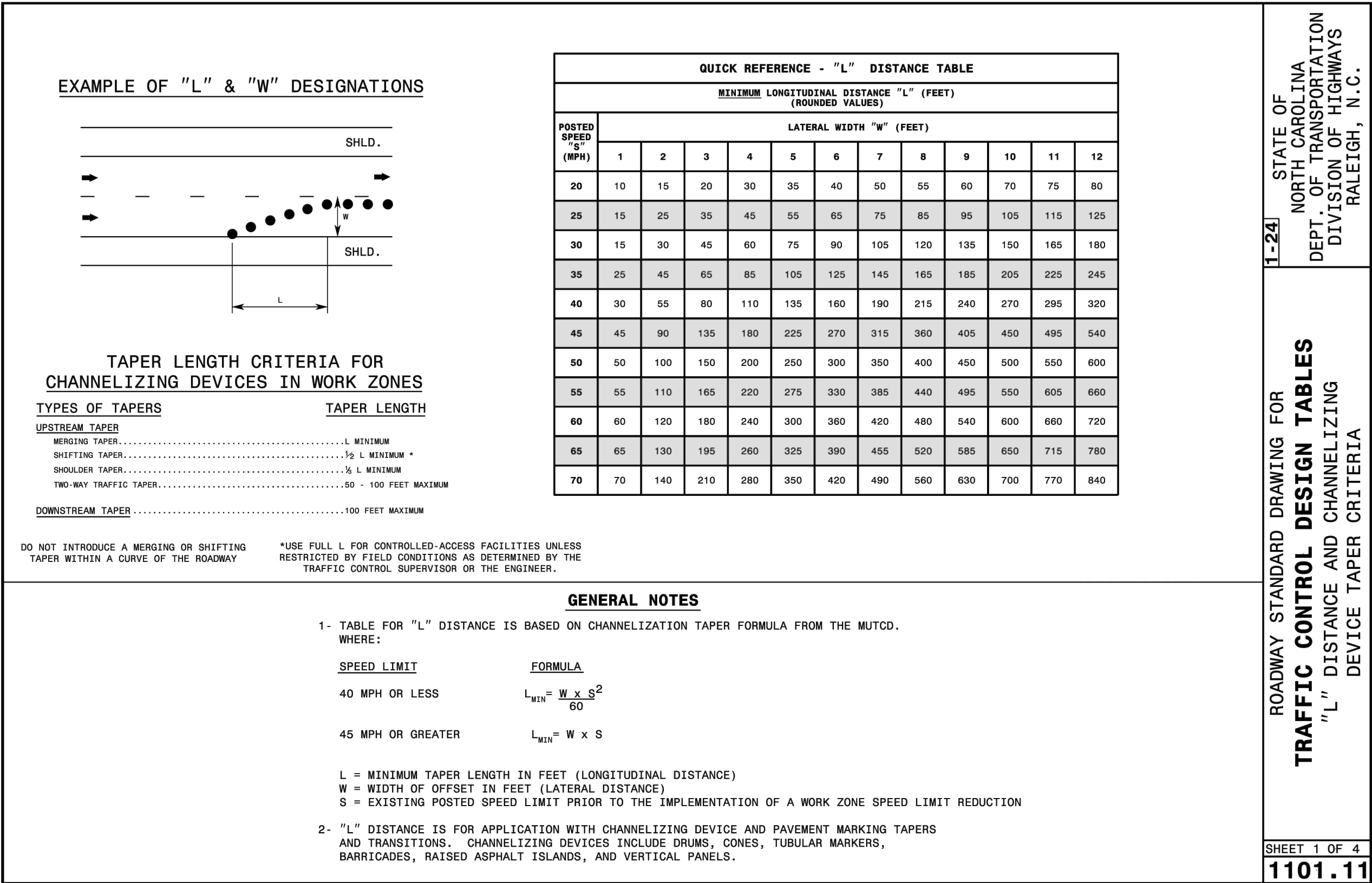
## GENERAL TRAFFIC CONTROL DETAILS (SHEET 2 OF 3)

**SHEET NUMBER**

**C04.02**

## BIDDING DOCUMENTS














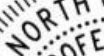








# ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE



Seal of the Professional Engineer, North Carolina. The seal is circular with "NORTH CAROLINA" at the top and "ENGINEER" at the bottom. In the center, it says "SEAL 048840". To the right of the seal, it says "Signed by:" followed by a signature and the date "10/3/2024". Below the signature, it says "PE# 95B6S379045".

## REVISIONS

**DATE ISSUED:      APRIL 16, 2024**

**DRAWN BY:** MEO

DRAWN BY: MEO

**DESIGNED BY:** JLH

**AEP PROJECT NUMBER**  
**1051-0068-002**  
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**SHEET TITLE**

**OVERHEAD  
SIGN 14  
GEOTECHNICAL  
BORINGS 2**

**SHEET NUMBER**

**C07.02**

## BIDDING DOCUMENTS

GROUNDWATER DEPTHS ARE NOT EXACT AND MAY VARY SUBSTANTIALLY FROM THOSE INDICATED. ATD = AT TIME OF DRILLING  
LL=Liquid Limit, PL = Plastic Limit, NMC = Natural Moisture Content, PPV = Pocket Penetrometer (tsf), PTV = Pocket Torvane (tsf)  
AR = Auger Refusal, IGM = Intermediate Geomaterial

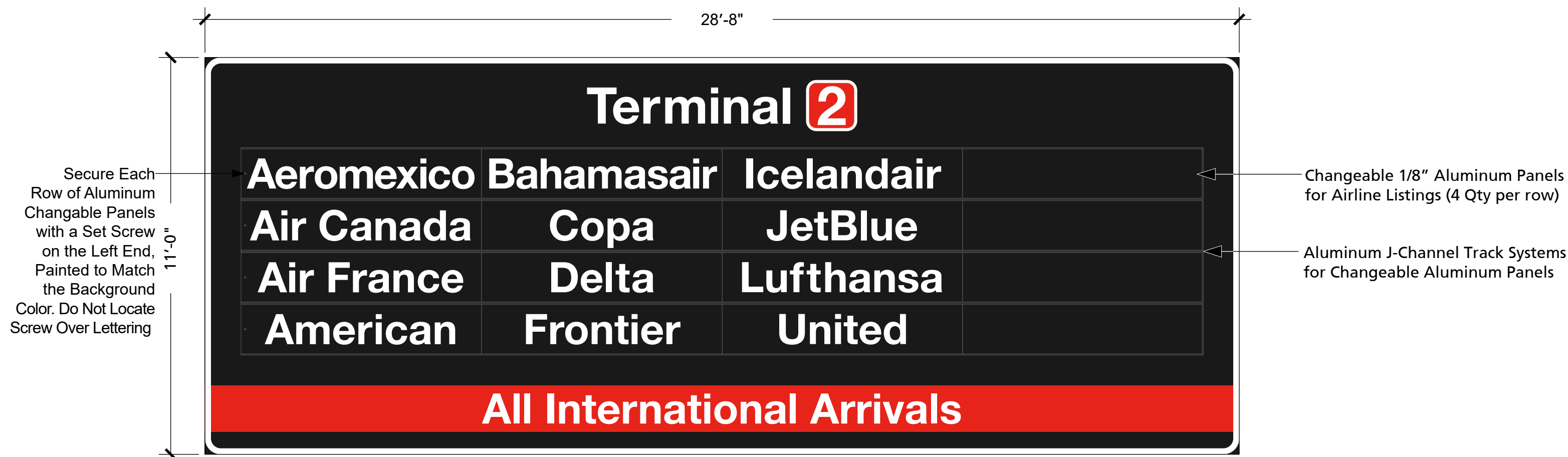
GROUNDWATER DEPTHS ARE NOT EXACT AND MAY VARY SUBSTANTIALLY FROM THOSE INDICATED. ATD = AT TIME OF DRILLING  
LL=Liquid Limit, PL = Plastic Limit, NMC = Natural Moisture Content, PPV = Pocket Penetrometer (tsf), PTV = Pocket Torvane (tsf)  
AR = Auger Refusal, IGM = Intermediate Geomaterial





**WARNING!!!! WARNING!!!!** THERE ARE A NUMBER OF AIRPORT, PUBLIC, AND PRIVATE UTILITIES, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRaversING THE PROJECT AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY ITEM DAMAGE, CAUSED BY HIS ACTIONS, WITH NO ADDITIONAL COMPENSATION. **WARNING!!!!**





35

Applies to Sign Layout: RW-OH16; RW-OH14 (Panel2); RW-OH17; RW-OH18 (Panel2)

## 1 MESSAGE LAYOUT - SIGN TYPE C - T2 AIRLINE LISTINGS

SCALE:  $3/8" = 1'$

## PROJECT NOTES

## GENERAL NOTES

1. THESE DRAWINGS ARE PROVIDED FOR A SPECIFIC DESIGN INTENT ONLY. THE SIGN CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ANCHORAGES, ALL ELECTRICAL FIXTURES AND REQUIRED CONNECTIONS INTO EXISTING CIRCUITS, AND WILL SUBMIT SHOP DRAWINGS, AND DETAILS FOR REVIEW. ANY PRODUCTS OR METHODS SPECIFIED MAY BE SUBSTITUTED WITH EQUAL SO LONG AS THE OVERALL DIMENSIONS, APPEARANCE, AND FUNCTIONALITY OF THE DESIGN IS RETAINED.

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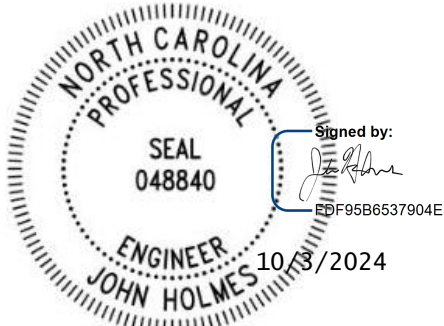


# RALEIGH-DURHAM INTERNATIONAL AIRPORT

**RALEIGH, NC**

## ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE

**ENGINEER'S SEAL**



**NOT RELEASED FOR CONSTRUCTION**

## CONSULTANTS



## REVISIONS

[illegible]

DATE ISSUED:	APRIL 16, 2024
REVIEWED BY:	ME
DRAWN BY:	JH
DESIGNED BY:	JH

**AEP PROJECT NUMBER**  
**1051-0068-002**

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**SHEET TITLE**

## MESSAGE LAYOUT

**SHEET NUMBER**

## GR3.01

## BIDDING DOCUMENTS

**WARNING!!!! WARNING!!!! THERE ARE A NUMBER OF AIRPORT, PUBLIC, AND PRIVATE UTILITIES, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE PROJECT AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION, ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY ITEM DAMAGE, CAUSED BY HIS ACTIONS, WITH NO ADDITIONAL COMPENSATION. WARNING!!!!**









## ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE

**NOT RELEASED FOR  
CONSTRUCTION**

---

**CONSULTANTS**

 **Apple Design, Inc.**  
3739 National Drive, Suite 228  
Raleigh, NC 27612

[illegible]

**AEP PROJECT NUMBER**  
**1051-0068-002**  
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---

**SHEET TITLE**

## SIGN FABRICATION DETAILS SECTIONS

**GR6.02**

## BIDDING DOCUMENTS



1. INSTALL TWO POST CLIPS AT EACH JUNCTION OF EXTRUSIONS AND VERTICAL SUPPORT. ONE ON UPPER EXTRUSION AND ON LOWER EXTRUSION WHERE EXTRUSION JOIN ONE ANOTHER.
2. INSTALL  $\frac{3}{8}$ " X  $3\frac{1}{2}$ ", CADMIUM PLATED HEX HEAD BOLT WITH FLAT AND LOCK WASHER UNDER NUT. INSTALL ONE FLAT WASHER UNDER HEX HEAD.
- 3.

1/8" THK. MIN. ALUMINUM SIGN  
 PANEL

6" OR 12" SIGN PANEL  
 EXTRUSION

POST CLIP AS REQUIRED

EXISTING VERTICAL SUPPORTS,


**North Carolina 811**  
www.nc811.org

Plotted on: 4/5/2024 10:41 AM Plotted by: Jon Hall  
Drawing: T:\Apple Designs\Customers\RDU\Sub-Project Folder\23 - RDU Airline Name Changes\GR6.01.dwg









## ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE

Professional Engineer Seal for North Carolina, James J. Barcomb, No. 022997, expires 10/3/2024.

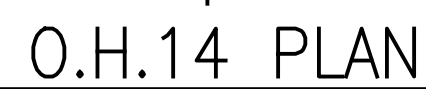


...BEGIN with the END in mind.

[illegible]

**SHEET TITLE**

## BIDDING DOCUMENTS



Plotted on: 4/10/2024 3:16 PM Plotted by: Dana Shaul  
Drawing: B:\Projects\2023\_000\2023\_062 - RDU Overhead Sign Analysis\dwg\Alpha\_Active\2023.0 RDU OSH.dwg









## ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE

Professional Engineer Seal for North Carolina, Seal Number 022997, signed by James J. Barcomb, dated 3/2024.

**CONSULTANTS:**  
PLAN PREPARED BY:



...BEGIN with the END in mind.

[illegible]

**AEP PROJECT NUMBER**

### OH-14 TERMINAL 2 WAY FINDING SIGN SUPPORT DETAILS

**S-102**

## BIDDING DOCUMENTS



W6x9 VERTICAL SIGN SUPPORT

EXISTING HSS16x16

7'-0" ±  
TOP CHORD TO BOTTOM CHORD

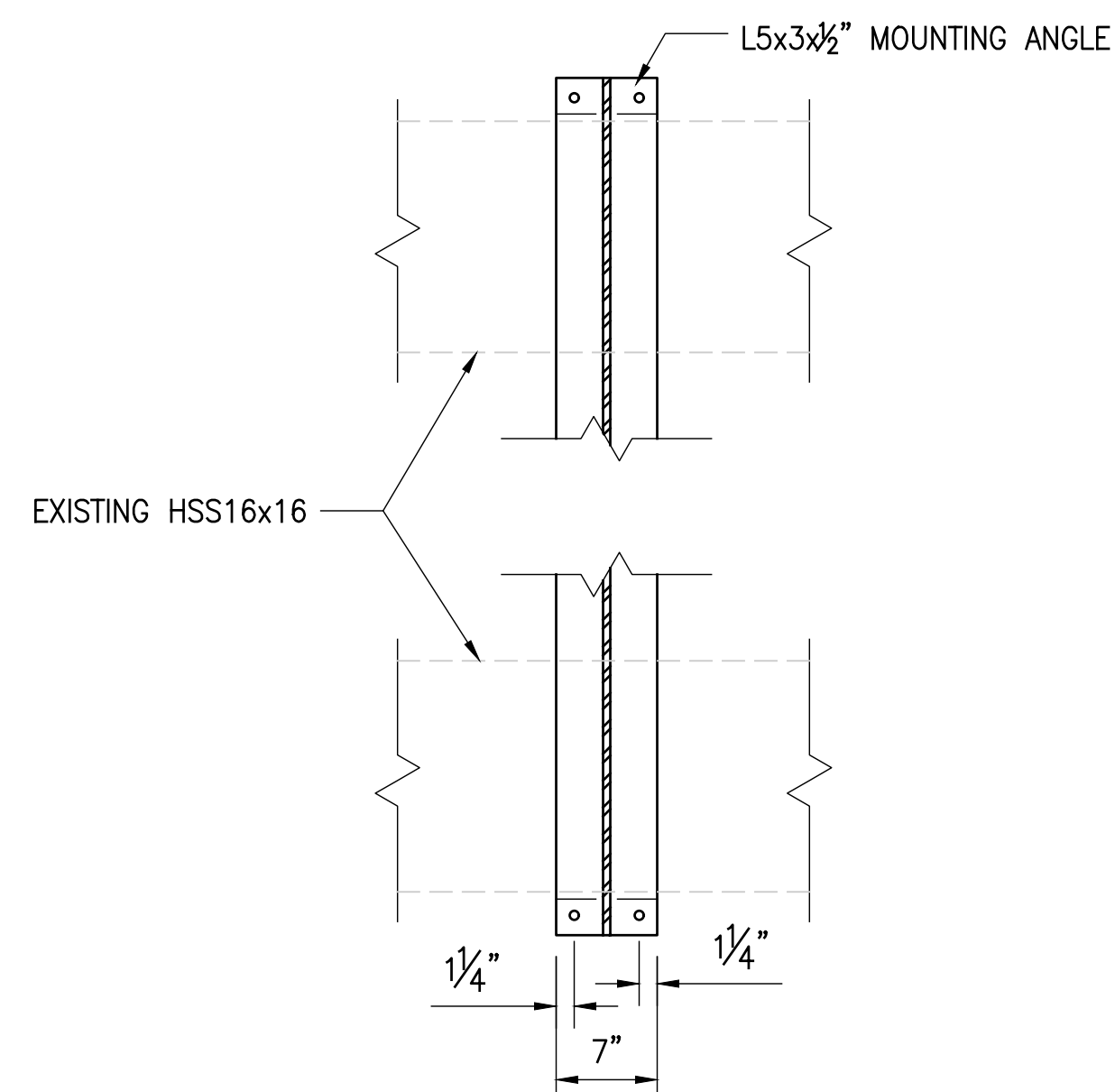
L5x3x $\frac{1}{2}$  MOUNTING ANGLE (TYP.)

2- $\frac{1}{2}$ " $\varnothing$  A325 HDG BOLTS (TYP.)

2- $\frac{1}{2}$ " $\varnothing$  A325 HDG BOLTS BLIND BOLTED TO BOTTOM CHORD (TYP.)


A

## VERTICAL SIGN SUPPORT



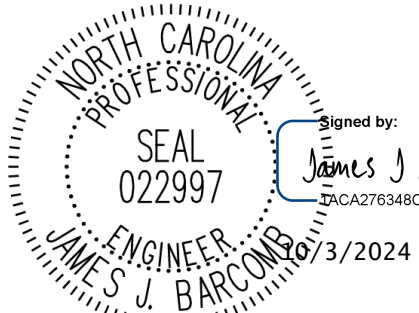
SECTION A-A





# ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE

**ENGINEER'S SEAL**



**NOT RELEASED FOR  
CONSTRUCTION**

**CONSULTANTS:**  
PLAN PREPARED BY:



**ALPHA & OMEGA GROUP**  
CIVIL | STRUCTURAL | WATER RESOURCES  
4601 LAKE BOONE TRAIL, SUITE 3C, RALEIGH, NC 27607  
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[HTTP://WWW.AOGROUP.COM](http://www.aogroup.com)

...BEGIN with the END in mind.

## REVISIONS

[illegible]

**DATE ISSUED:      APRIL 16, 2024**

REVIEWED BY: TLB

DRAWN BY: DMS

DESIGNED BY: JJB

**AEP PROJECT NUMBER**

**1051-0068-0**

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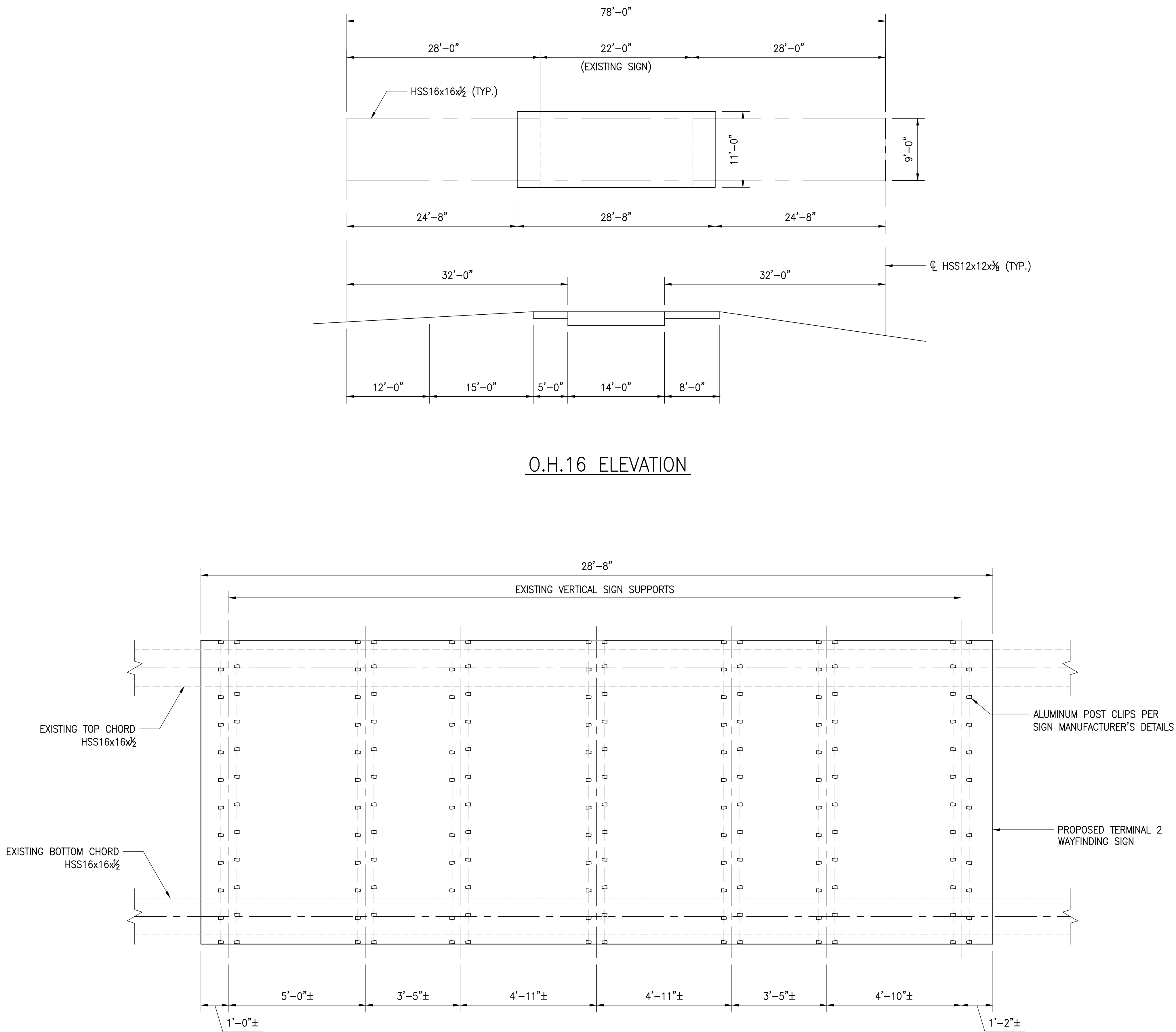
**SHEET TITLE**

## OH-16 WAY FINDING SIGN DETAILS

**SHEET NUMBER**

**S-103**

## BIDDING DOCUMENTS



## OH-16 SIGN SUPPORT LAYOUT

**WARNING!!!! WARNING!!!! THERE ARE A NUMBER OF AIRPORT, PUBLIC, AND PRIVATE UTILITIES, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE PROJECT AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION, ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY ITEM DAMAGE, CAUSED BY HIS ACTIONS, WITH NO ADDITIONAL COMPENSATION. WARNING!!!!**



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**RALEIGH-DURHAM  
INTERNATIONAL AIRPORT**

**RALEIGH, NC**

## ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE

**ENGINEER'S SEAL**



**NOT RELEASED FOR  
CONSTRUCTION**

**CONSULTANTS**  
PLAN PREPARED BY:



**ALPHA & OMEGA GROUP**  
CIVIL | STRUCTURAL | WATER RESOURCES  
4601 LAKE BOONE TRAIL, SUITE 3C, RALEIGH, NC 27607  
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[HTTP://WWW.AOGROUP.COM](http://www.aogroup.com)  
FIRM LICENSE NO. C-1684

...BEGIN with the END in mind...

## REVISIONS

[illegible]

**DATE ISSUED:     APRIL 16, 2024**

REVIEWED BY: TLB

**DRAWN BY:** **DMS**

DESIGNED BY: JJB

**AEP PROJECT NUMBER**

**1051-0068-002**

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**SHEET TITLE**

## CH 15 WAX

## OH-17 WAY

## FINDING SIGN

## DETAILS

---

**SHEET NUMBER**

**S-104**

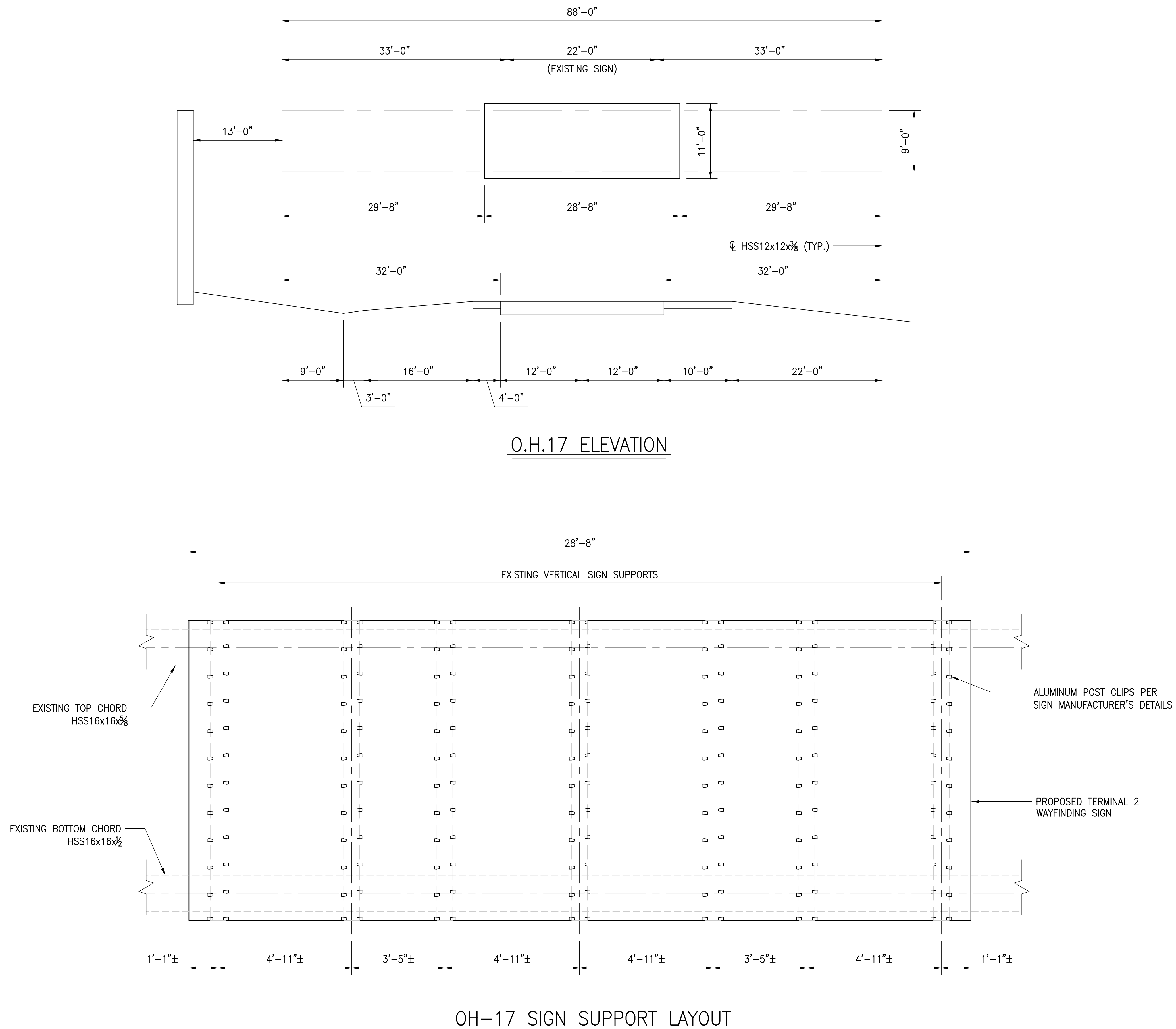
## BIDDING

## BIDDING REQUIREMENTS

## DOCUMENTS


Printed on: 4/10/2024 3:16 PM Plotted by: Dana Shaul

Fig. 6: H0 values 2023\_09/2023\_062 - RDO Overall Sign Analysis (log Alpha\_RDO/2023.0)




**WARNING!!!! WARNING!!!!** THERE ARE A NUMBER OF AIRPORT, PUBLIC, AND PRIVATE UTILITIES, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRaversING THE PROJECT AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY ITEM DAMAGE, CAUSED BY HIS ACTIONS, WITH NO ADDITIONAL COMPENSATION. **WARNING!!!!**





## ROADWAY SIGNS - AIRLINE NAMES INSTALLATION PACKAGE

**Seal:** 



Founded 1998

[illegible]

**SHEET TITLE**

**S-105**

## BIDDING DOCUMENTS



**WARNING!!! WARNING!!! THERE ARE A NUMBER OF AIRPORT, PUBLIC, AND PRIVATE UTILITIES, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRaversING THE PROJECT AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY ITEM DAMAGE, CAUSED BY HIS ACTIONS, WITH NO ADDITIONAL COMPENSATION. WARNING!!!**