

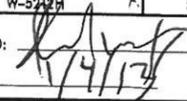
CONTRACT:

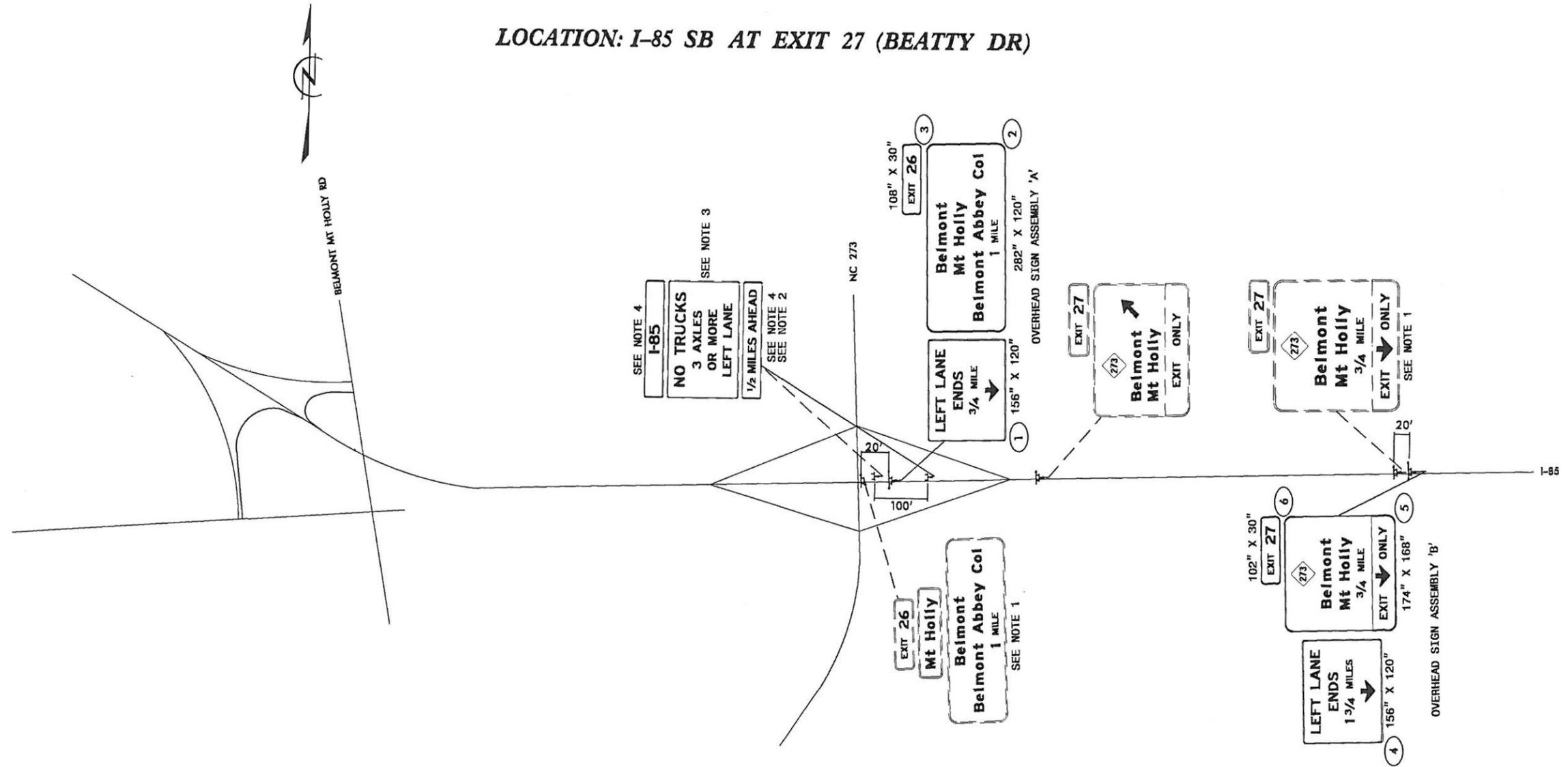
T.I.P.: W-5212H

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

**SIGNING PLAN
GASTON COUNTY**

LOCATION: I-85 SB AT EXIT 27 (BEATTY DR)

TIP NO. W-5212H	SHEET NO. SIGN-1
APPROVED: 	
DATE:	
SEAL	



PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

K. JORDAN	SIGNING & DELINEATION REGIONAL ENGINEER
M. TRACEY	SIGNING & DELINEATION PROJECT DESIGN ENGINEER



INDEX	
SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	NOTES AND SUMMARY OF QUANTITIES
SIGN-3-4	OVERHEAD SIGN ASSEMBLY SHEETS
SIGN-5-8	SIGN DESIGNS

TIP NO.	SHEET NO.
W-52124	SIGN-2
APPROVED: <i>[Signature]</i>	
DATE: 1/9/13	
SEAL	



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 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
854.01	DOUBLE FACED CONCRETE BARRIER
854.05	CONCRETE MEDIAN TRANSITION BARRIER
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
903.30	BARRIER SIGN SUPPORT ASSEMBLY
903.40	MEDIAN BARRIER SIGN SUPPORT AND ANCHORAGE
904.20	SECONDARY SIGN MOUNTING

PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, OVERHEAD
- 2 DISPOSAL OF SUPPORT, WOOD
- 3 RELOCATE SIGN, TYPE A (GROUND MOUNTED)
- 4 RELOCATE SIGN, TYPE B (GROUND MOUNTED)

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
0001000000	800	MOBILIZATION	1	L.S.
4109000000	904	SIGN ERECTION, TYPE A (OVERHEAD)	4	EA.
4109000000	904	SIGN ERECTION, TYPE B (OVERHEAD)	2	EA.
4057000000	SP	OVERHEAD FOOTING	48	C.Y.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE "A"	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE "B"	1	L.S.
4149000000	907	DISPOSAL OF SIGN SYSTEM, OVERHEAD	2	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE A (GROUND MOUNTED)	1	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE B (GROUND MOUNTED)	2	EA.
4082000000	903	SUPPORTS, WOOD	50	LF
2710000000	854	CONCRETE BARRIER TRANSITION SECTION	3	EA.
2752000000	SP	GENERIC PAVING ITEM, CONCRETE BARRIER REMOVAL	120	LF
2752000000	SP	GENERIC PAVING ITEM, CONCRETE BARRIER, TYPE I, WITH 19-28 INCH GLARE SCREEN	120	LF

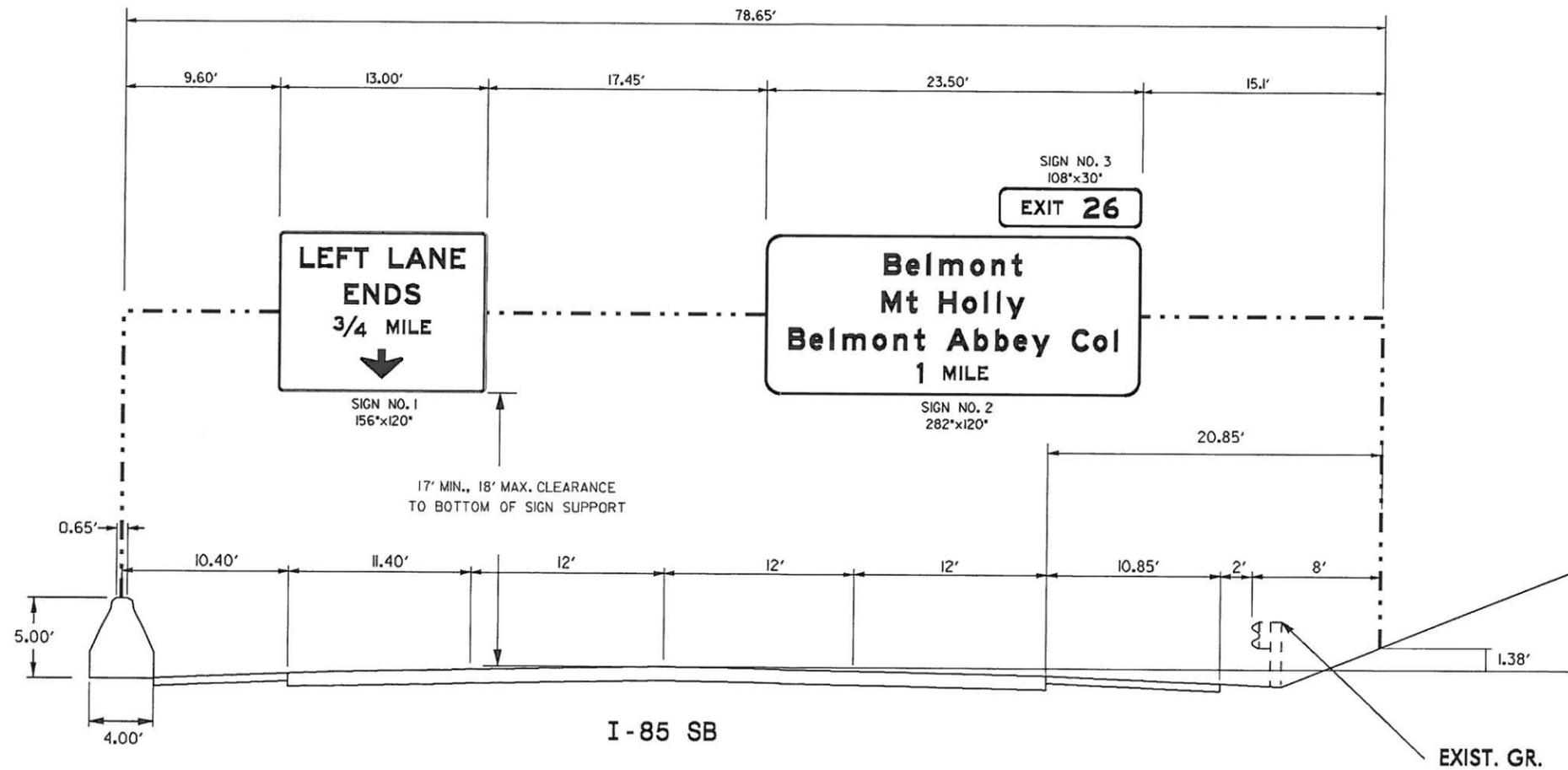
GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKING PLANS.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.

NOTES

1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.

**THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.



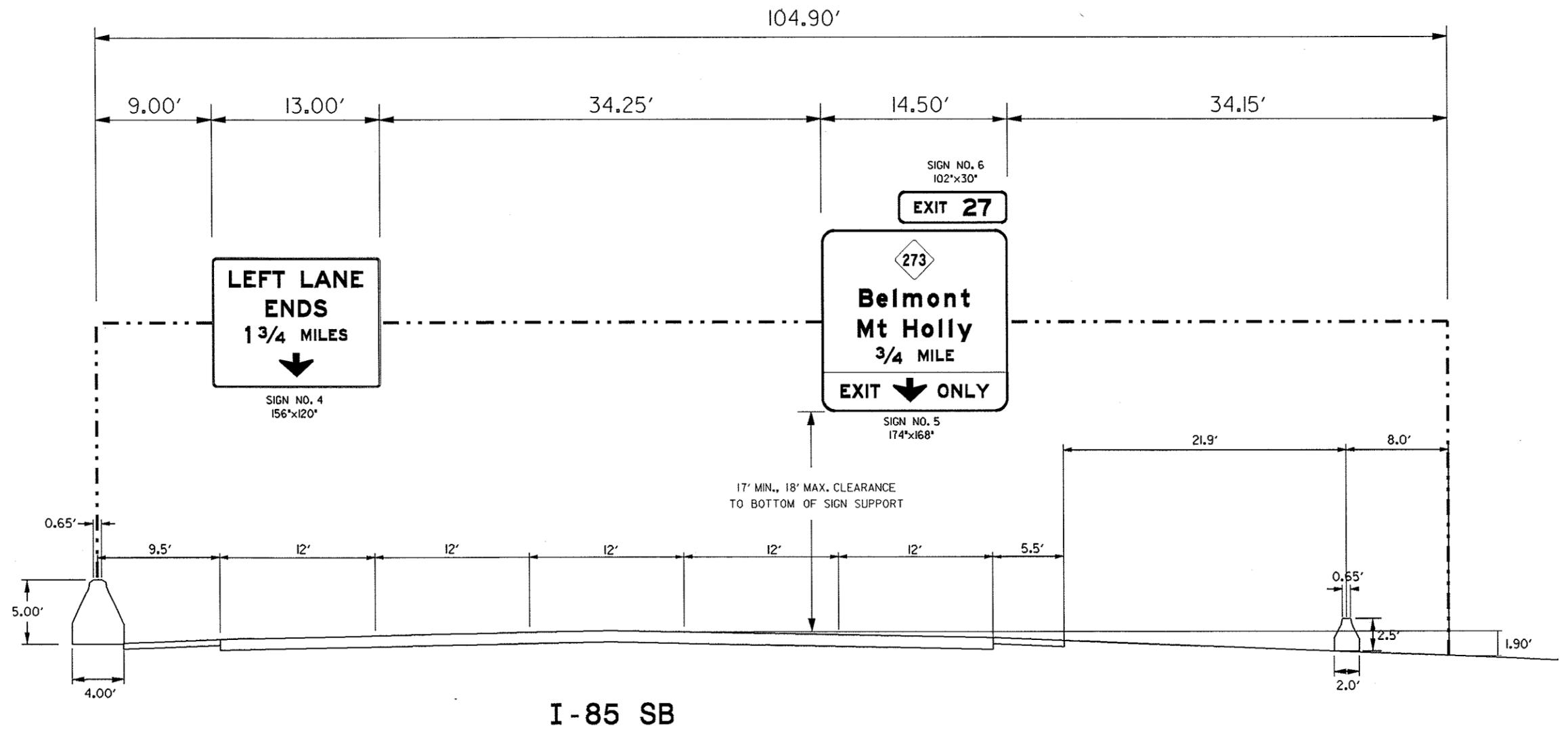
OVERHEAD SIGN ASSEMBLY "A"
20' OFFSET FROM EXISTING STRUCTURE

OVERHEAD SIGN ASSEMBLY 'A'
20' OFFSET FROM EX. STRUCTURE
I-85

NOTES

1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.

**** THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.**



I-85 SB

**OVERHEAD SIGN ASSEMBLY "B"
20' OFFSET FROM EXISTING STRUCTURE**

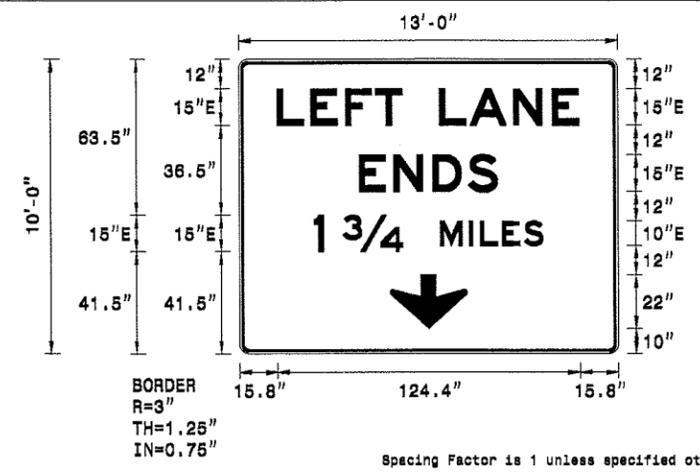
**OVERHEAD SIGN ASSEMBLY 'A'
20' OFFSET FROM EX. STRUCTURE
I-85**

SIGN NUMBER: 4
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 13'-0"
 HEIGHT: 10'-0"
 TOTAL AREA: 130.0 Sq.Ft.
 BORDER TYPE: RECESSED
 RECESS: 0.75"
 WIDTH: 1.25"
 RADII: 3"
 NO. Z BARS: 3
 LENGTH: 148.0

SYMBOL	X	Y	WID	HT
ARNDWN	62	10	32	22

USE NOTES: 1,2
 1. Legend and border shall be direct applied black non-reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

DESIGN BY: M. TRACEY
 PROJECT ID:
 CHECKED BY:
 DIV: 12
 DATE: Jan 26, 2012



LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	124.3
E 2000	87.2
E 2000	94.6

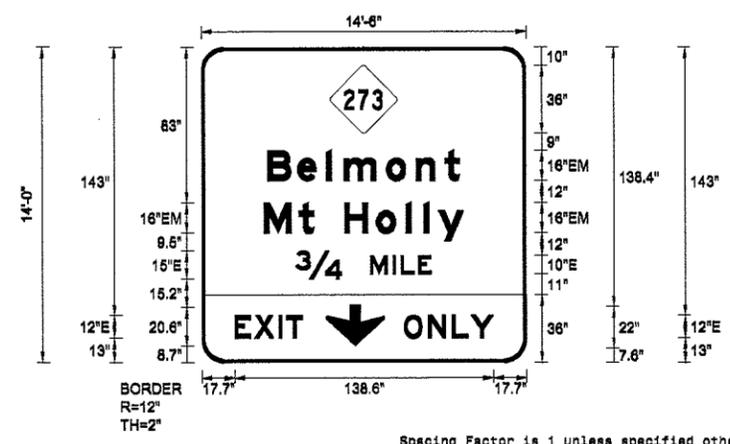
FILENAME: Lane Ends OH NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 5
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 14'-6"
 HEIGHT: 14'-0"
 TOTAL AREA: 203.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 4
 LENGTH: 166.0

SYMBOL	X	Y	WID	HT
M1-S-3-24-7C	69	122	36	36
ARNDWN	66.4	8.7	30	20.6

USE NOTES: 1,2,3,4
 1. Legend and border(except those that are colored black) shall be direct applied Grade A sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

DESIGN BY: M. TRACEY
 PROJECT ID: ID
 CHECKED BY:
 DIV: 12
 DATE: Jan 27, 2012



LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	103.2
EM 2000	106.9
E 2000	73.1
E 2000	36.7
E 2000	47.9

FILENAME: Lane Ends OH NORTH CAROLINA D.O.T. SIGN DETAIL

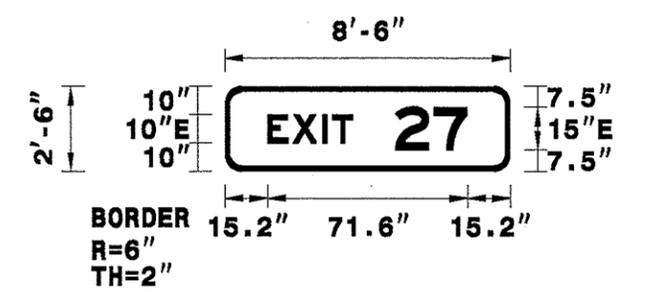
TIP NO. W-52144 SHEET NO. SIGN-6
 APPROVED: [Signature]
 DATE: 12/5/12
 SEAL

SIGN NUMBER: 6
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 8'-6"
 HEIGHT: 2'-6"
 TOTAL AREA: 21.3 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 94.0

SYMBOL	X	Y	WID	HT
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USE NOTES: 1,2
 1. Legend and border(except those that are colored black) shall be direct applied Grade A sheeting.
 2. Background shall be Grade C reflective sheeting.

DESIGN BY: N. TRACEY
 PROJECT ID: IO
 CHECKED BY:
 DIV: 12
 DATE: Jan 27, 2012



LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	71.6

FILENAME: Lane Ends OH NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN DESIGNS

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1145.01	BARRICADES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- NORTH ARROW

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING

29-OCT-2012 06:40 \\001\DFSR001\GROUPS-WZTCC\TMU\WZTC\DesignGroup3\Squad3B\SpecialProjects\W-5212H\TCP\TMP-Hrr\TMP-3.dgn
kbr\oadwell AT TE266004

APPROVED: _____ 	DATE: 29 Oct 12		ROADWAY STANDARD DRAWINGS & LEGEND
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TRANSPORTATION OPERATIONS

CONSTRUCTION

CONSTRUCT TWO OVERHEAD SIGNS BEHIND PORTABLE CONCRETE BARRIER AND UTILIZING SHOULDER CLOSURES, LANE CLOSURES AND AN OFF-SITE DETOUR.

TMP DESIGN PARAMETERS

THIS PROJECT CONTAINS LANE CLOSURE TIME RESTRICTIONS, IN ADDITION TO HOLIDAYS AND SPECIAL EVENTS (SEE GENERAL NOTES "A" AND "B").

ROAD CLOSURE TIME RESTRICTION IS INCLUDED FOR I-85 AND AFFECTED RAMPS (SEE LOCAL NOTE "1" ON SHEET TMP-2A).

LAW ENFORCEMENT SHALL BE UTILIZED TO DIRECT TRAFFIC THROUGH WORK AREA AND INTERSECTION AT EXIT 27.

AN OFF-SITE DETOUR SHALL BE UTILIZED FOR INSTALLATION OF THE OVERHEAD SIGN ASSEMBLIES OVER I-85 TRAVEL LANES.

EXISTING OVERHEAD DYNAMIC CHANGEABLE MESSAGE SIGNS SHALL BE UTILIZED, AS DIRECTED BY THE ENGINEER.

GENERAL OUTLINE

1. INSTALL ADVANCE WORK ZONE WARNING SIGNS.
2. INSTALL PORTABLE CONCRETE BARRIER IN THE MEDIAN FOR BOTH NORTHBOUND AND SOUTHBOUND DIRECTIONS OF I-85.
3. CONSTRUCT SIGN FOUNDATIONS AND VERTICAL STRUCTURES.
4. INSTALL OVERHEAD SIGN ASSEMBLIES OVER TRAVEL LANES.
5. DEMO/REMOVE EXISTING SIGN ASSEMBLIES.
6. REMOVE TRAFFIC CONTROL DEVICES.

GENERAL NOTES

PROJ. REFERENCE NO. W-5212H	SHEET NO. TMP-2
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CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
ONE LANE ON NB I-85	MONDAY THRU FRIDAY, 5:30AM TO 6:00PM SATURDAY & SUNDAY, 8:00AM TO 8:00PM
ONE LANE ON SB I-85	MONDAY THRU FRIDAY, 5:30AM TO 8:00PM SATURDAY & SUNDAY, 8:00AM TO 8:00PM
TWO LANES ON I-85	MONDAY THRU FRIDAY, 5:00AM TO 10:00PM SATURDAY & SUNDAY, 7:00AM TO 10:00PM
THREE LANES OR MORE ON I-85	MONDAY THRU FRIDAY, 5:00AM TO 12:00 MIDNIGHT SATURDAY & SUNDAY, 6:00AM TO 12:00 MIDNIGHT

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

I-85

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 5:00AM DECEMBER 31st TO 8:00PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00PM THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 5:00AM THURSDAY AND 8:00PM MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00AM FRIDAY TO 8:00PM TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00AM THE DAY BEFORE INDEPENDENCE DAY AND 8:00PM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 5:00AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00PM THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 5:00AM FRIDAY AND 8:00PM TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00AM TUESDAY AND 8:00PM MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR ANY NASCAR EVENT, AT THE LOWES MOTOR SPEEDWAY, BETWEEN THE HOURS OF 5:00AM THE THURSDAY BEFORE THE WEEKEND OF THE EVENT AND 8:00PM THE FOLLOWING MONDAY AFTER THE EVENT.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- G) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- H) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

TRAFFIC PATTERN ALTERATIONS

- I) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- J) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- K) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRANSPORTATION MANAGEMENT PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRANSPORTATION MANAGEMENT PLANS.
- L) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

APPROVED: _____ DATE: _____			TRANSPORTATION OPERATIONS AND GENERAL NOTES

I:\DEC-2012_07-02
 \DOT\DFSR\DOT\INGROUPS-WZTCCC\TMUX\WZTC\DesignGroup3\5\quod3B\SpecialProjects\W-5212H\TCP\TMP-1\thr\TMP-3.dgn
 kbroodwell AT 12266004

GENERAL NOTES (CONT'D)

TRAFFIC BARRIER

- N) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

- O) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS:

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

TRAFFIC CONTROL DEVICES

- P) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- Q) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- R) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 1000 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

MISCELLANEOUS

- S) LAW ENFORCEMENT SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

LOCAL NOTES

- 1) THE CONTRACTOR SHALL BE ALLOWED TO CLOSE I-85 SOUTHBOUND AND PLACE TRAFFIC ONTO THE OFF-SITE DETOURS ONLY WHEN THE OVERHEAD SIGNS & STRUCTURES ARE BEING REMOVED AND/OR INSTALLED OVER THE TRAVEL LANES. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE ROAD CLOSURE DURATION.

DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85 INCLUDING ALL RAMPS/LOOPS	MONDAY THRU SUNDAY, 5:00AM TO 12:00 MIDNIGHT
I-485 RAMPS/LOOPS	MONDAY THRU SUNDAY, 5:00AM TO 12:00 MIDNIGHT

29-OCT-2012 06:41
 \\DOT\DFSROOT\GROUPS-WZTCCC\TMU\WZTC\Design\Group3\Squad3B\Special Projects\W-5212H\TCP\TMP-Hhr\UTMP-3.dgn
 kbroadwell AT TE266004

APPROVED:	DATE:			<p>GENERAL NOTES (CONT'D) AND LOCAL NOTES</p>
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PHASING

NOTE: THE CONTRACTOR MAY WORK ON BOTH OVERHEAD SIGN ASSEMBLIES SEPARATELY OR AT THE SAME TIME.

NOTE: IF PORTABLE WARNING SIGNS FOR TEMPORARY LANE CLOSURES EXTEND BEYOND THE FIRST STATIONARY ADVANCE WORK ZONE WARNING SIGN "ROAD WORK AHEAD" (W20-1), INSTALL PORTABLE ADVANCE WORK ZONE WARNING SIGNS AS SHOWN IN THE DETAIL ON THIS SHEET.

NOTE: USE EXISTING OVERHEAD DYNAMIC MESSAGE SIGNS ON I-85 & I-485, AS DIRECTED BY THE ENGINEER, TO INFORM & ALERT THE TRAVELING PUBLIC TO TRAFFIC CONDITIONS DURING CONSTRUCTION.

PHASE I: CONSTRUCTION/INSTALLATION OF SIGN FOUNDATIONS AND VERTICAL SUPPORT STRUCTURES.

- STEP 1: - BEFORE BEGINNING ANY CONSTRUCTION INSTALL ADVANCE WORK ZONE WARNING SIGNS ALONG BOTH DIRECTIONS OF I-85 (SEE RSD 1101.01, SHEET 1 OF 3).
- STEP 2: - USING RSD 1101.02, SHEETS 4 & 8 OF 15, AND SHEETS TMP-6 & TMP-7, INSTALL PORTABLE CONCRETE BARRIER AND SHOULDER CLOSED SIGNS AS SHOWN ON SHEETS TMP-4 AND TMP-5.
- STEP 3: - USING RSD 1101.02, SHEETS 4 & 8 OF 15, RSD 1101.04, SHEET 1 OF 1 AND SHEETS TMP-6 & TMP-7, AS REQUIRED, CONSTRUCT/INSTALL PROPOSED FOUNDATIONS AND VERTICAL STRUCTURES FOR OVERHEAD SIGN ASSEMBLIES "A" AND/OR "B" (SEE SIGNING PLANS).

PHASE II: INSTALLATION OF OVERHEAD SIGN ASSEMBLIES OVER TRAVEL LANES.

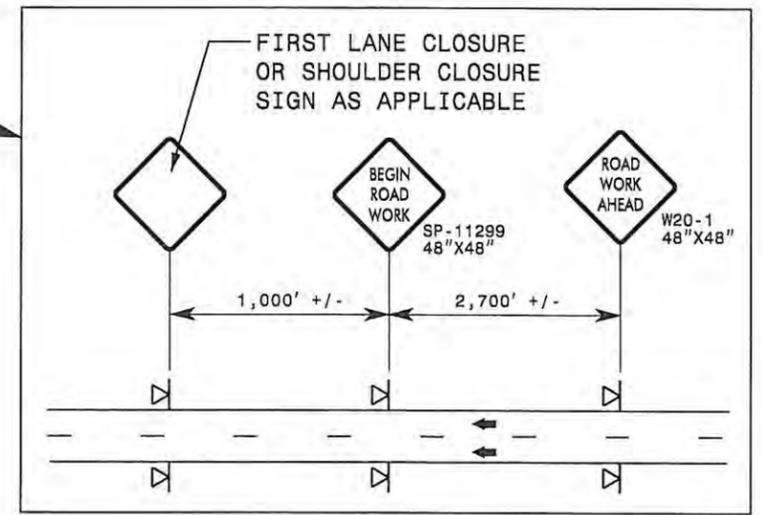
NOTE: SEE LOCAL NOTE 1 ON SHEET TMP-2A FOR ROAD CLOSURE RESTRICTIONS.

NOTE: IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR REMOVE THE EXISTING OVERHEAD SIGN ASSEMBLIES WHILE I-85 SOUTHBOUND IS CLOSED.

- STEP 1: - THE CONTRACTOR HAS THE FOLLOWING TWO OPTIONS FOR THE INSTALLATION OF PROPOSED OVERHEAD SIGN ASSEMBLY "A" OVER I-85 SOUTHBOUND (SEE SIGNING PLANS):
 - A. CLOSE I-85 SOUTHBOUND & DMV WEIGH STATION USING SHEET TMP-8 AND UTILIZE THE OFF/ON RAMPS AT EXIT #27 TO DETOUR TRAFFIC. PLACE THE EXISTING SIGNAL AT THE INTERSECTION OF NC 273 ON FLASH AND USE LAW ENFORCEMENT TO DIRECT TRAFFIC THROUGH THE NC 273 INTERSECTION.
 - B. CLOSE I-85 SOUTHBOUND USING SHEETS TMP-9 THRU TMP-9C AND PLACE TRAFFIC ONTO THE OFF-SITE DETOUR.
 - NOTE: CONTRACTOR MAY INSTALL BOTH PROPOSED OVERHEAD ASSEMBLIES "A" & "B" WHEN I-85 SOUTHBOUND IS CLOSED.
- THE CONTRACTOR SHALL INSTALL THE PROPOSED OVERHEAD SIGN ASSEMBLY "B" OVER I-85 SOUTHBOUND (SEE SIGNING PLANS):
 - A. CLOSE I-85 SOUTHBOUND USING SHEETS TMP-9 THRU TMP-9C AND PLACE TRAFFIC ONTO THE OFF-SITE DETOUR.
 - NOTE: CONTRACTOR MAY INSTALL BOTH PROPOSED OVERHEAD ASSEMBLIES "A" & "B" WHEN I-85 SOUTHBOUND IS CLOSED.

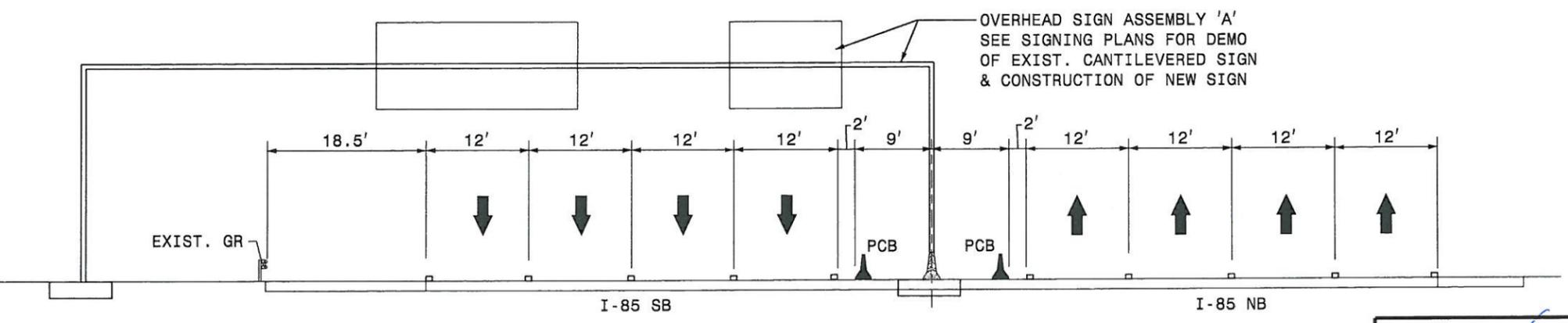
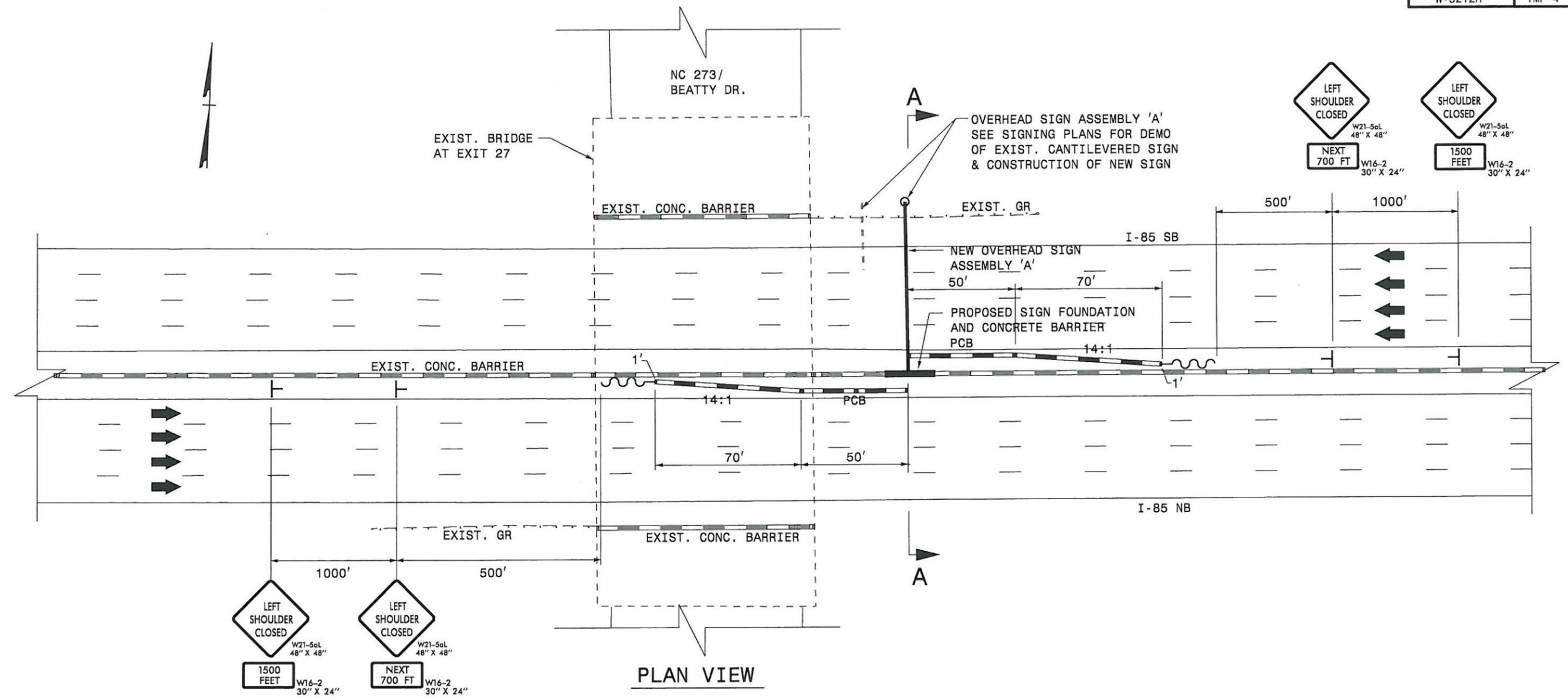
PHASE III: DEMO/REMOVAL OF EXISTING SIGN ASSEMBLIES.

- STEP 1: - USING RSD 1101.02, SHEETS 4, 8 & 10 OF 15, RSD 1101.04, SHEET 1 OF 1 AND SHEETS TMP-6 & TMP-7, AS REQUIRED, REMOVE EXISTING OVERHEAD SIGN ASSEMBLIES "A" & "B" AND FOUNDATIONS (SEE SIGNING PLANS).
- STEP 2: - REMOVE ALL TRAFFIC CONTROL DEVICES.



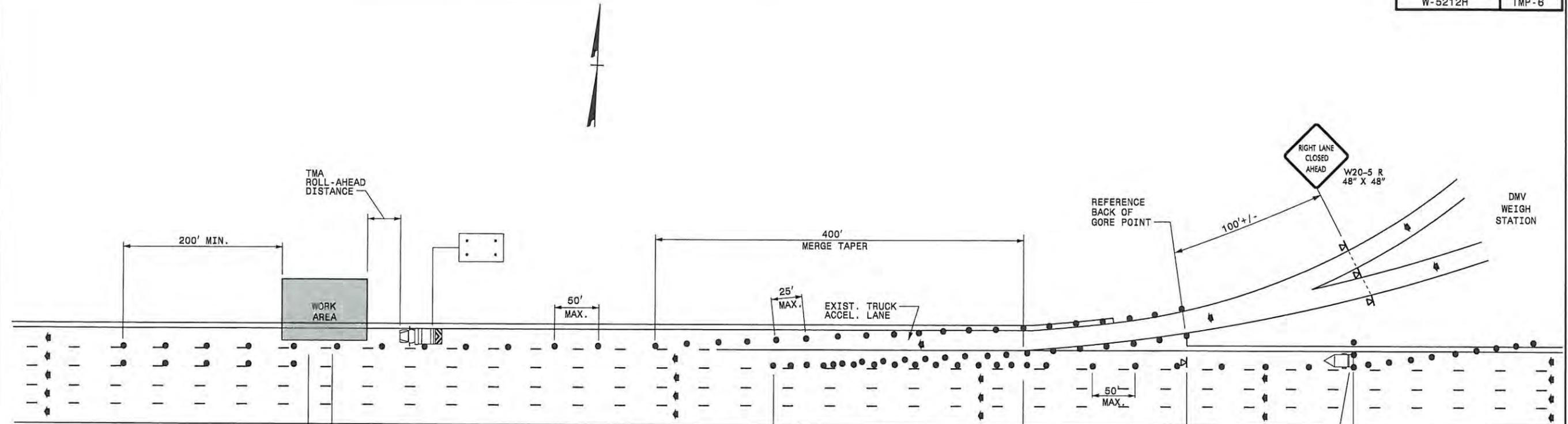
APPROVED: _____ DATE: _____ 		<h2 style="margin: 0;">PHASING</h2>
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29-OCT-2012 06:40
 \\DOT_AFSR001\GROUPLS-WZTCC\TMU\WZTC\DesignGroup3\Squad3B\Special Projects\W-5212H\TCP\TMP-1\Hr\TMP-3.dgn
 kbroadwell AT TE266004



I-DEC-2012_06455
 \DOT\DFSR001\ON\GROUPS-WZTCCC\TMU\WZTC\DesignGroup3\5212H\TCP\TMP-4-5.DGN
 kbroadwell AT E266004

APPROVED: 	DATE: 12/12/12		OVERHEAD SIGN ASSEMBLY 'A' PLAN AND SECTION
SEAL			



I-85 SOUTHBOUND

EXIST. OVERHEAD SIGN 'B' TO BE REMOVED

NEW OVERHEAD SIGN 'B'

200' +/-
10' DRUM SPACING



SEE RSD 1101.02 SHEET 5 OF 15 FOR RIGHT LANE CLOSURE DETAILS

REFERENCE: END OF RIGHT LANE MERGE TAPER

MESSAGE NO. 1	MESSAGE NO. 2
TRAFFIC ENTERING FROM RT	700 FT AHEAD

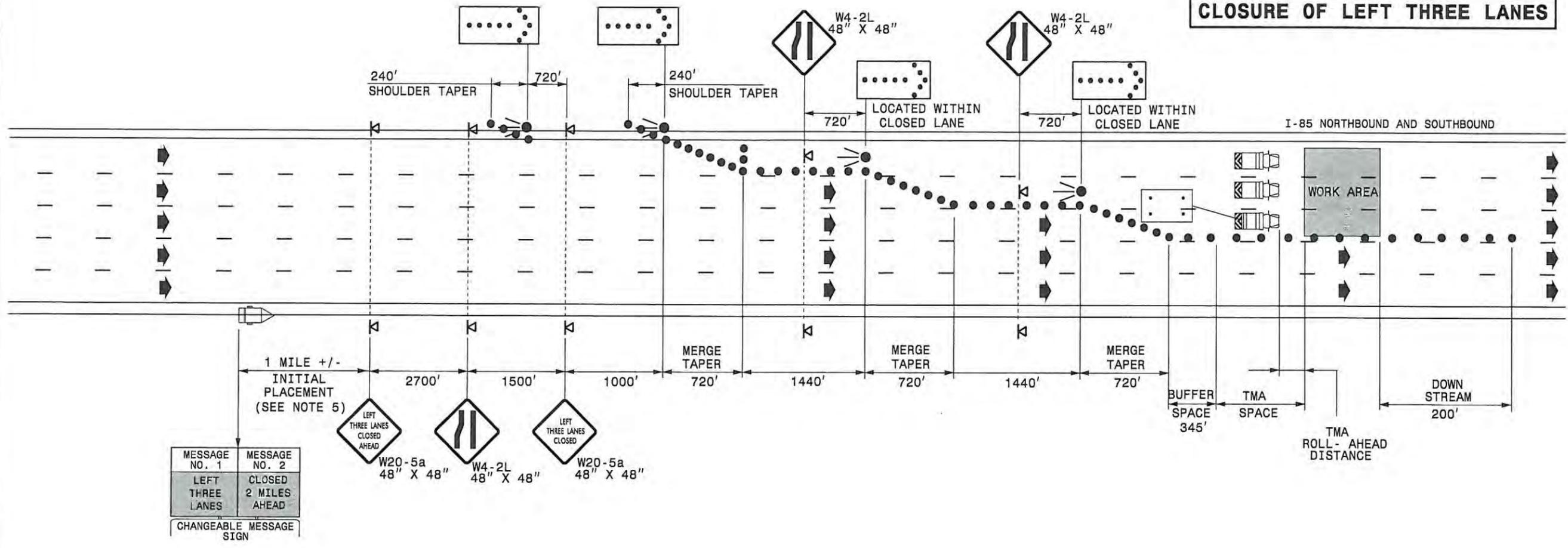
CHANGEABLE MESSAGE SIGN

LEGEND	
	DRUM
	PORTABLE SIGN
	TRUCK MOUNTED ATTENUATOR (TMA)
	FLASHING ARROW PANEL ON TMA (IN CAUTION MODE)
	FLASHING ARROW PANEL
	DIRECTION OF TRAFFIC FLOW

29-OCT-2012 06:47
 \\DOT\DFSROOT\GROUPS-WZTCCC\TMU\WZTC\DesignGroup3\Squad3B\Special Projects\W-5212H\TCP\TMP-6.dgn
 Kbroadwell AT TE266004

APPROVED:	DATE: 29 OCT 12		RIGHT LANE CLOSURE AT OVERHEAD SIGN ASSEMBLY 'B'
SEAL			

CLOSURE OF LEFT THREE LANES



MESSAGE NO. 1	MESSAGE NO. 2
LEFT THREE LANES	CLOSED 2 MILES AHEAD
CHANGEABLE MESSAGE SIGN	

NOTES

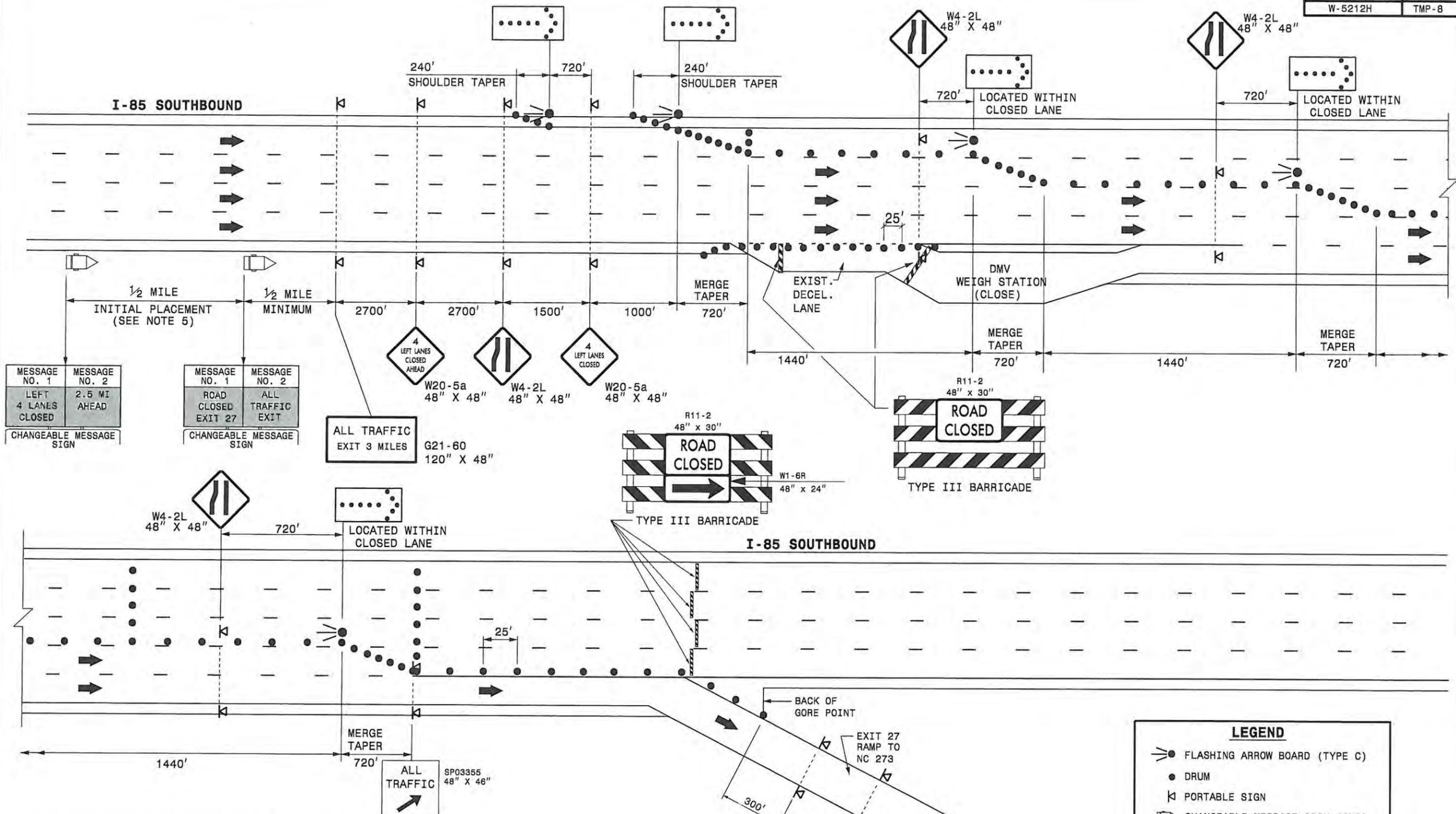
- 1- PLACE ARROW BOARDS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW BOARDS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW BOARD LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT STOPPING SIGHT DISTANCE TO THE ARROW BOARD IS MET. (SEE STD. 1101.11 SHEET 2)
- 2- PLACE DRUMS IN TAPERS AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. PLACE DRUMS ALONG THE BUFFER SPACE AND WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 3- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 4- POSITION THE TMA TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER AND CONTINUOUSLY ADVANCE TMA'S AS WORK PROGRESSES.
- 5- PLACE CHANGEABLE MESSAGE SIGN (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER. PLACE CMS APPROXIMATELY 1 MILE IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED, RELOCATE CMS 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC, MOVE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP.
- 6- THIS SHEET IS APPLICABLE FOR FOUR LANE OR MORE TRAFFIC PATTERN. FIVE LANE TRAFFIC PATTERN IS SHOWN.

LEGEND

- FLASHING ARROW BOARD (TYPE C)
- TRUCK MOUNTED ATTENUATOR (TMA)
- FLASHING ARROW BOARD ON TMA (IN CAUTION MODE)
- DRUM
- PORTABLE SIGN
- CHANGEABLE MESSAGE SIGN (CMS)
- DIRECTION OF TRAFFIC FLOW

APPROVED: _____ DATE: _____ 		DIVIDED MULTILANE ROADWAY TEMPORARY LANE CLOSURE LEFT THREE LANES CLOSED
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29-OCT-2012 06:49
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 kbroadwell AT TE266004



MESSAGE NO. 1	MESSAGE NO. 2
LEFT 4 LANES CLOSED	2.5 MI AHEAD
CHANGEABLE MESSAGE SIGN	

MESSAGE NO. 1	MESSAGE NO. 2
ROAD CLOSED EXIT 27	ALL TRAFFIC EXIT
CHANGEABLE MESSAGE SIGN	

ALL TRAFFIC EXIT 3 MILES
G21-60
120" X 48"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

- NOTES**
- 1- PLACE ARROW BOARDS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW BOARDS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW BOARD LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT STOPPING SIGHT DISTANCE TO THE ARROW BOARD IS MET. (SEE STD. 1101.11 SHEET 2)
 - 2- PLACE DRUMS IN TAPERS AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. PLACE DRUMS ALONG THE BUFFER SPACE AND WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
 - 3- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
 - 4- POSITION THE TMA TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER AND CONTINUOUSLY ADVANCE TMA'S AS WORK PROGRESSES.
 - 5- PLACE CHANGEABLE MESSAGE SIGN (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER. PLACE CMS APPROXIMATELY 1 MILE IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED, RELOCATE CMS 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC, MOVE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP.

LEGEND

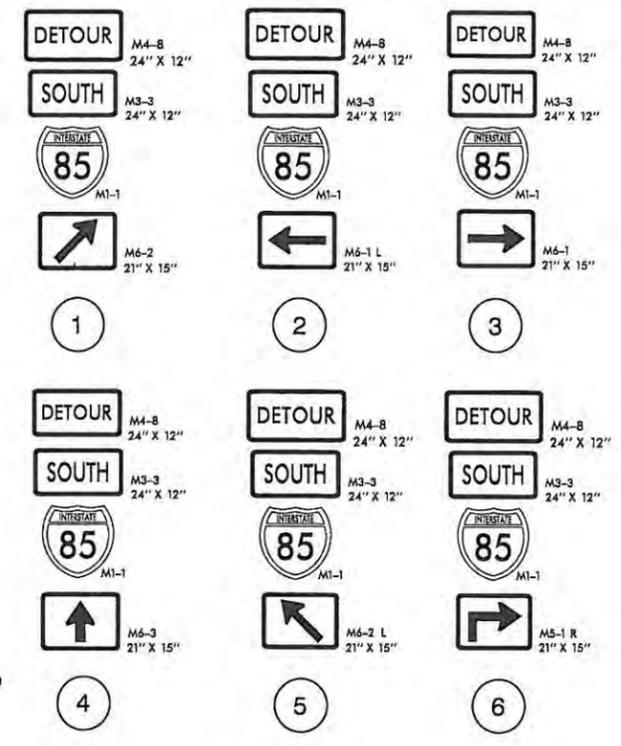
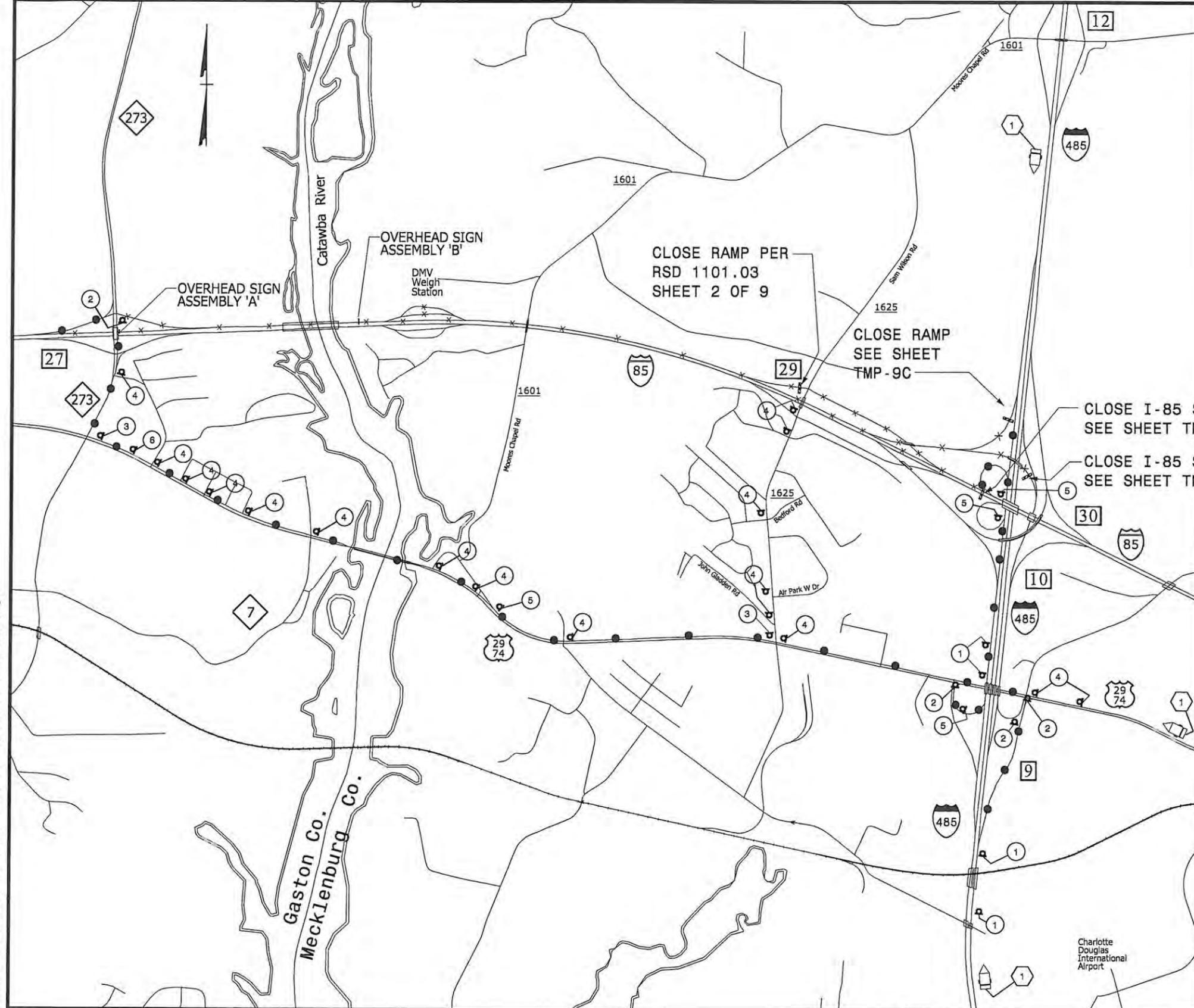
- FLASHING ARROW BOARD (TYPE C)
- DRUM
- ⊞ PORTABLE SIGN
- ◻ CHANGEABLE MESSAGE SIGN (CMS)
- ➔ DIRECTION OF TRAFFIC FLOW

APPROVED: _____ DATE: _____
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
G.L. GETTIER
19973



I-85 SOUTHBOUND ROAD CLOSURE AT EXIT 27 (OVERHEAD SIGN ASSEMBLY 'A')

29-OCT-2012 06:48 \\DOT\DFSROOT\GROUPS\WZTCCC\TMU\WZTC\Design\Group3\Squad3B\Special\Projects\W-5212H\TCP\TMP-7-8-9A.dgn kbroadwell AT 12266004



LEGEND

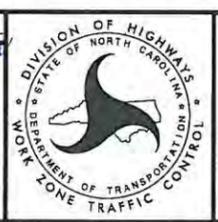
- ROAD TO BE CLOSED
- PROPOSED DETOUR
- EXIT NUMBER
- CHANGEABLE MESSAGE SIGN (CMS)
- CMS NUMBER
- SIGN NUMBER
- STATIONARY OR PORTABLE SIGN

MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
I-85 SB TO CLOSE MIDNIGHT		I-85 SB CLOSED	FOLLOW DETOUR
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	

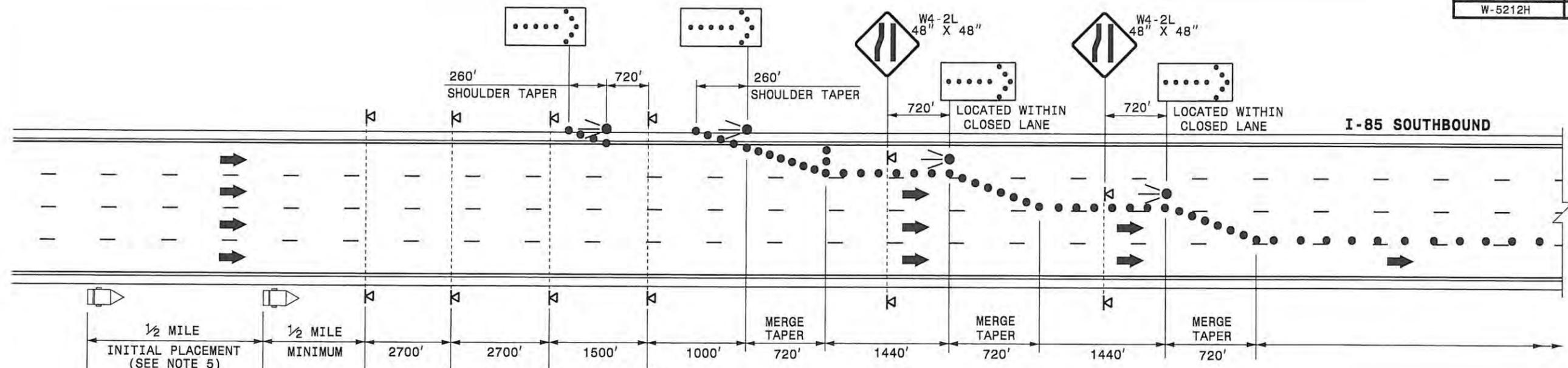
CMS 1

29-OCT-2012 06:50
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APPROVED: _____ DATE: _____



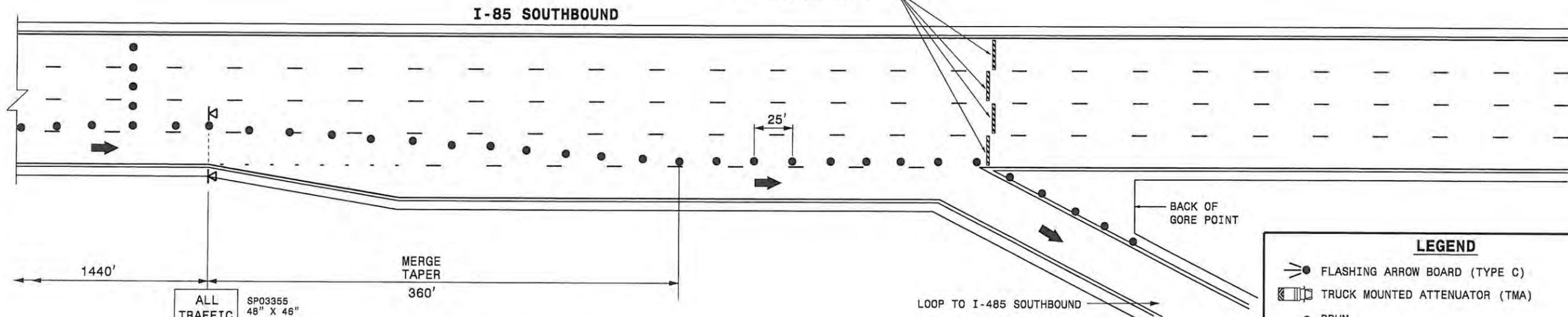
I-85 SOUTHBOUND
 ROAD CLOSURE/DETOUR AT EXIT 30
 (OVERHEAD SIGN ASSEMBLY
 'A', 'B' OR BOTH)



MESSAGE NO. 1 LEFT 3 LANES CLOSED	MESSAGE NO. 2 2 MILES AHEAD
CHANGEABLE MESSAGE SIGN	

MESSAGE NO. 1 ROAD CLOSED EXIT 30A	MESSAGE NO. 2 ALL TRAFFIC EXIT
CHANGEABLE MESSAGE SIGN	

ALL TRAFFIC
EXIT 3 MILES



LEGEND

- FLASHING ARROW BOARD (TYPE C)
- TRUCK MOUNTED ATTENUATOR (TMA)
- DRUM
- PORTABLE SIGN
- CHANGEABLE MESSAGE SIGN (CMS)
- DIRECTION OF TRAFFIC FLOW

NOTES

- 1- PLACE ARROW BOARDS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW BOARDS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW BOARD LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT STOPPING SIGHT DISTANCE TO THE ARROW BOARD IS MET. (SEE STD. 1101.11 SHEET 2)
- 2- PLACE DRUMS IN TAPERS AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. PLACE DRUMS ALONG THE BUFFER SPACE AND WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
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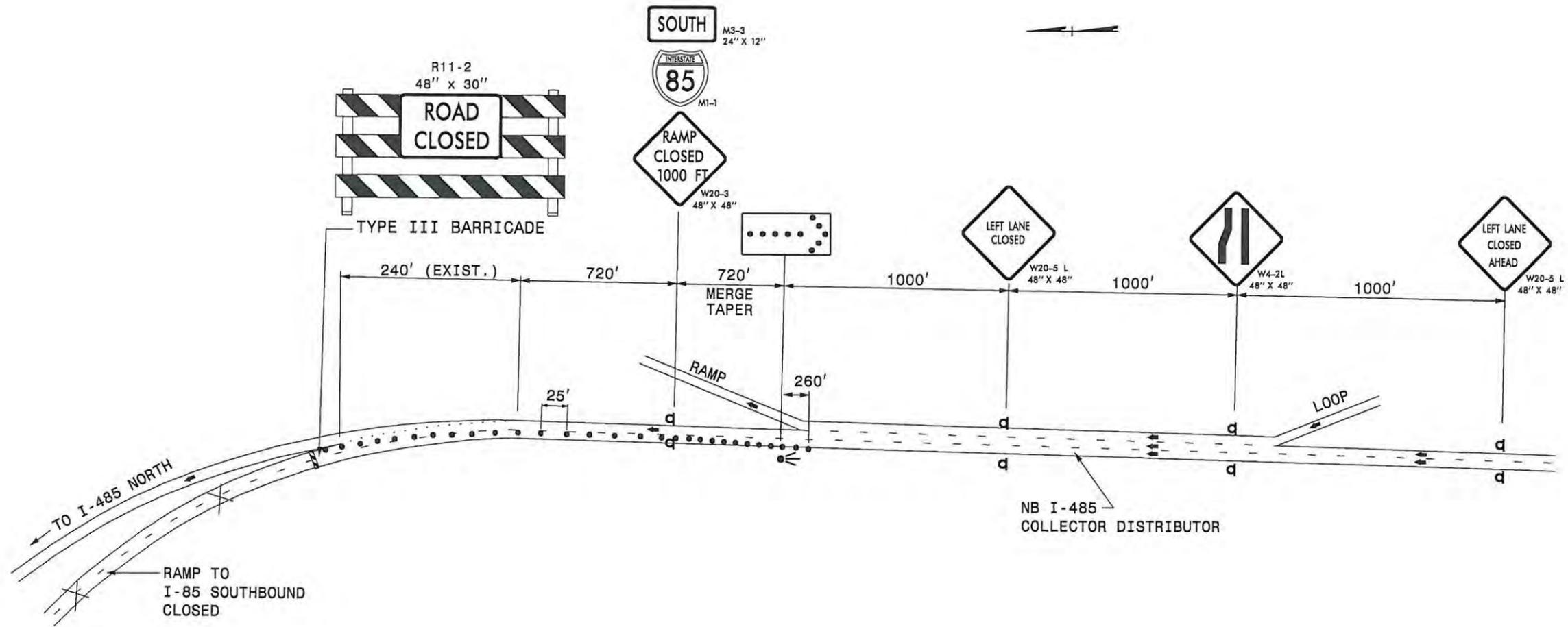
APPROVED: _____ DATE: 29 OCT 12

SEAL
G. L. GETTIER
ENGINEER
8973



I-85 SOUTHBOUND ROAD CLOSURE
AT EXIT 30 (OVERHEAD SIGN
ASSEMBLY 'A', 'B', OR BOTH)

29-OCT-2012 06:48
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kbroadwell AT TE266004

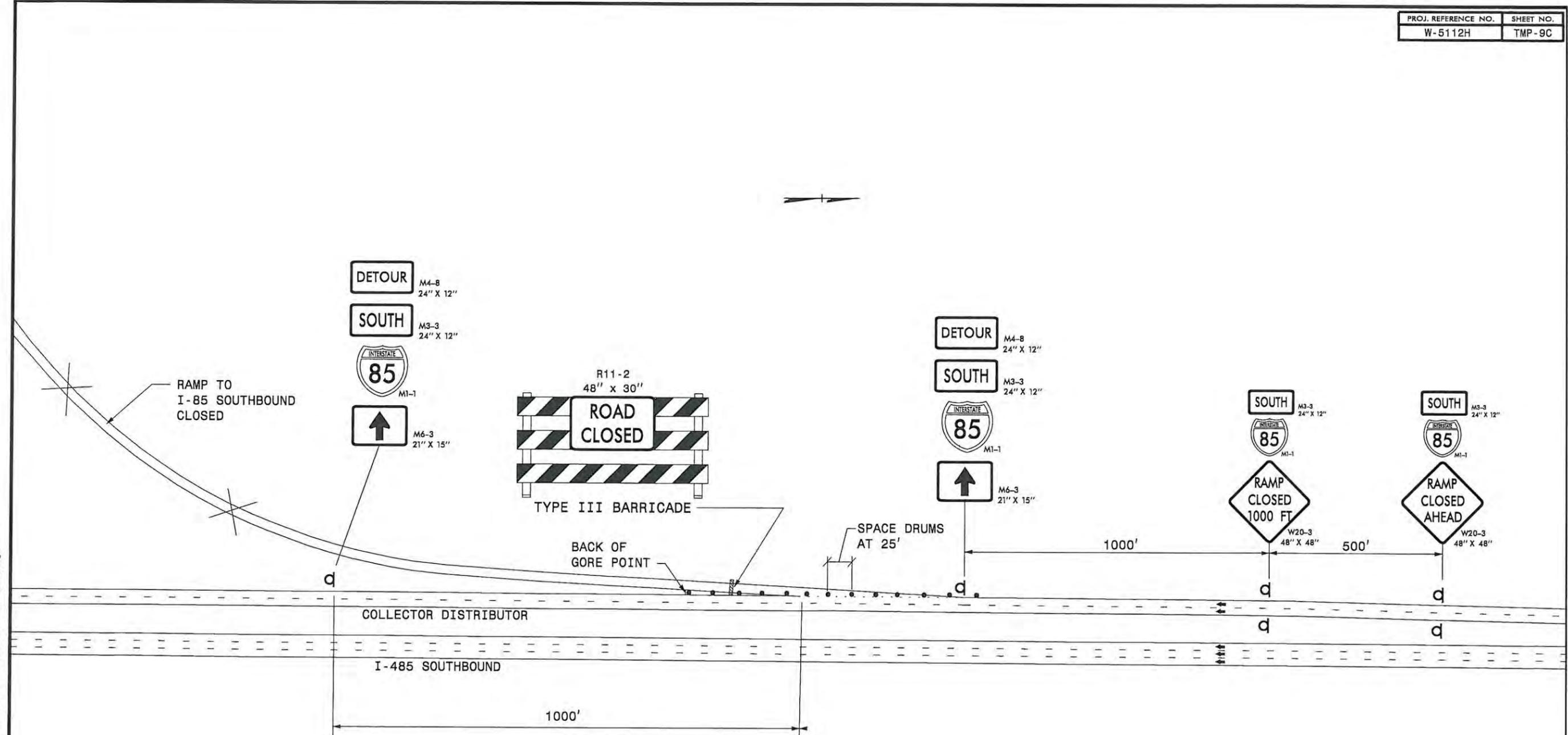


LEGEND

- FLASHING ARROW BOARD (TYPE C)
- DRUM
- STATIONARY OR PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

29-OCT-2012 06:51
 \\DOT\DFSROOT\GROUPS-WZTCC\TMU\WZTC\DesignGroup3\Squad3B\SpecialProjects\W-5212H\TCP\TMP-9B-9C.dgn
 kbroodwell AT TE266004

APPROVED:	DATE:		I-85 SOUTHBOUND ROAD CLOSURE AT EXIT 30 (ROAD CLOSURE OF RAMP TO I-85 SB FROM I-485 NB) (OVERHEAD SIGN ASSEMBLY 'A', 'B' OR BOTH)
	29 OCT 12		



29-OCT-2012 06:52
 \\DOT\DF\SR001\GROUPS-WZTCC\TMU\WZTC\DesignGroup3\Squad3B\SpecialProjects\W-52PH\TCP\TMP-9B-9C.dgn
 Kbr-roadwell AT TE266004

LEGEND

- FLASHING ARROW BOARD (TYPE C)
- DRUM
- STATIONARY OR PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

APPROVED: _____ DATE: _____

SEAL

I-85 SOUTHBOUND ROAD CLOSURE
 AT EXIT 30 (ROAD CLOSURE OF
 RAMP TO I-85 SB FROM I-485 SB)
 (OVERHEAD SIGN ASSEMBLY 'A',
 'B' OR BOTH)