STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

 STATE PROJECT REFERENCE NO.	SHEET NO.
R-4403	TCP-1

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION ORANGE, GUILFORD, ROCKINGHAM, AND CASWELL COUNTIES

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUM
1135.01	CONES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

PHASING

INDEX OF SHEETS

SHEET NO.	<u>TITLE</u>
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, INDEX OF SHEETS AND PHASE
TCP-2	GENERAL NOTES
TCP-3	WORK ZONE WARNING SIGNS FOR GUIDERAIL AND GUARDRAIL INSTALLATION IN MEDIANS
TCP-4	ADVANCE WORK ZONE SIGNS FOR FREEWAYS (4 LANES OR GREATER), TWO-WAY UNDIVIDED, RAMPS & Y LINES
TCP-5	TEMPORARY LANE CLOSURES
TCP-6	MOVING OPERATION CARAVAN
TCP-7	MOVING OPERATION CARAVAN
TCP-8	MOVING OPERATION CARAVAN

LEGEND

DIRECTION OF TRAFFIC FLOW

NORTH ARROW

- PROPOSED PVMT. --- EXIST. PVMT.

WORK AREA

REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

T TYPE I BARRICADE

T TYPE II BARRICADE

TYPE III BARRICADE

SKINNY DRUM

FLASHING ARROW PANEL (TYPE C)

STATIONARY SIGN

PORTABLE SIGN

STATIONARY OR PORTABLE SIGN

CRASH CUSHION

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

FLAGGER

PAVEMENT MARKINGS

CRYSTAL/CRYSTAL PAVEMENT MARKER

YELLOW/YELLOW PAVEMENT MARKER

CRYSTAL/RED PAVEMENT MARKER

PAVEMENT MARKING SYMBOLS

PLAN PREPARED BY: N.C.D.O.T. TRAFFIC CONTROL, MARKING & APPROVED:

DELINEATION SECTION STUART BOURNE, P.E. TRAFFIC CONTROL ENGINEER

TRAFFIC CONTROL PROJECT ENGINEER

___ TRAFFIC CONTROL PROJECT DESIGN ENGINEER

TRAFFIC CONTROL DESIGN ENGINEER

STEP 1: INSTALL GUARDRAIL IN ACCORDANCE WITH CONSTRUCTION PLANS, GENERAL NOTES, ROADWAY STANDARD DRAWINGS (RSD) AND SHEETS TCP-3 THROUGH TCP-8.

- FOR MEDIAN WORK ON MULTI-LANE DIVIDED FACILITIES, USE SHEET TCP-3.
- FOR WORK ON TWO LANE-TWO WAY UNDIVIDED FACILITIES, USE RSD 1101.04 (SHEET 1 OF 9)
AND SHEET TCP-4 IF PERSONNEL OR EQUIPMENT ARE WITHIN 5' OF EDGE OF TRAVEL LANE, OTHERWISE,
USE RSD 1101.04 AND SHEET TCP-3.

- FOR OUTSIDE SHOULDER WORK ON DIVIDED MULTI-LANE FACILITIES, USE RSD 1101.04.
- FOR TEMPORARY LANE CLOSURES ON DIVIDED MULTI-LANE FACILITIES, USE SHEET TCP-5. - FOR INTERCHANGES WITHIN THE WORK ZONE INSTALL
PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS AND "END ROAD WORK" (G20-2a)
SIGNS ON ENTRANCE / EXIT RAMPS AS SHOWN ON SHEET TCP-4, DETAILS "C"

MAY USE "MOVING OPERATION CARAVAN" (SEE SHEETS TCP-6, TCP-7, AND TCP-8) FOR SEEDING AND WATERING OPERATIONS ONLY.

- REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES AND RETURN TRAFFIC TO ITS EXISTING TRAFFIC PATTERN AT THE END

STEP 2: UPON COMPLETION OF THE PROJECT, REMOVE ALL TRAFFIC CONTROL DEVICES.

ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER, TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES.

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:

ROA	D NA	ME	DAY AND TIME RESTRICTIONS
1.	US	220 NORTHBOUND	7:00AM TO 9:00AM MONDAY THRU FRIDAY (GUILFORD)
	US	220 SOUTHBOUND	4:00PM TO 6:00PM MONDAY THRU FRIDAY (GUILFORD)
2.	US	29	7:00AM TO 9:00AM AND 4:00PM TO 6:00PM MONDAY THRU FRIDAY (GUILFORD/ROCKINGHAM)
з.	US	421 NORTHBOUND	7:00AM TO 9:00AM MONDAY THRU FRIDAY (GUILFORD)
	US	421 SOUTHBOUND	4:00PM TO 6:00PM MONDAY THRU FRIDAY (GUILFORD)
4.	US	158	7:00AM TO 9:00AM AND 4:00PM TO 6:00PM MONDAY THRU FRIDAY (CASWELL/ROCKINGHAM)
5.	US	15-501	7:00AM TO 7:00PM MONDAY THRU SUNDAY (ORANGE)
6.	NC	68	7:00AM TO 9:00AM AND 4:00PM TO 6:00PM MONDAY THRU FRIDAY (GUILFORD)
7.	US :	311	7:00AM TO 9:00AM MONDAY THRU FRIDAY (GUILFORD)

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

ROAD NAME

- 1. US 220
- 2. US 29
- 3. US 421 4. US 158
- 5. US 15-501
- 6. NC 68
- 7. US 311

IN ADDITION, THE CONTRACTOR SHALL NOT CLOSE OR NARROW A LANE OF TRAFFIC ON ALL MAPS, DETAIN AND/OR ALTER THE TRAFFIC FLOW ON OR DURING HOLIDAYS, HOLIDAY WEEKENDS, SPECIAL EVENTS, OR ANY OTHER TIME WHEN TRAFFIC IS UNUSUALLY HEAVY, INCLUDING THE FOLLOWING SCHEDULES:

HOLIDAY

- FOR UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 4:00 P.M. DECEMBER 31ST TO 9:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A SATURDAY OR A SUNDAY, THEN UNTIL 9:00 A.M. THE FOLLOWING TUESDAY.
- 3. FOR EASTER, BETWEEN THE HOURS OF 4:00 P.M. THURSDAY AND 9:00 A.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY TO 9:00 A.M. TUESDAY.
- 5. FOR JULY 4TH, BETWEEN THE HOURS OF 4:00 P.M. THE FRIDAY BEFORE THE WEEK OF JULY 4TH AND 9:00 A.M. THE FOLLOWING MONDAY AFTER THE WEEK OF JULY 4TH.
- 6. FOR LABOR DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY TO 9:00 A.M. TUESDAY.
- 7. FOR THANKSGIVING, BETWEEN THE HOURS OF 4:00 P.M. TUESDAY TO 9:00 A.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 4:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING MONDAY AFTER THE WEEK OF CHRISTMAS.
- 9. FOR SPECIAL EVENTS AT SMITH CENTER AND KENAN STADIUM, FROM FOUR (4) HOURS BEFORE EVENT UNTIL TWO (2) HOURS AFTER EVENT FOR US 15-501 (ORANGE COUNTY).
- 10. FOR THE HIGH POINT FURNITURE MARKETS, BETWEEN THE HOURS OF 4 P.M. THE FRIDAY BEFORE THE WEEK OF FURNITURE MARKET AND 9 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF FURNITURE MARKET NC 68/US 311(GUILFORD COUNTY).
- 11. FOR THE GOLF TOURNAMENT, HELD IN GREENSBORO BETWEEN 4:00PM THE TUESDAY BEFORE THE TOURNAMENT AND 9:00AM THE TUESDAY AFTER TOURNAMENT FOR US 220 SOUTHBOUND/US 29/US 421(GUILFORD COUNTY).

LANE AND SHOULDER CLOSURE REQUIREMENTS

PROJ. REFERENCE NO. SHEET NO.

R-4403
TCP-2

- 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 30 FT (12m) OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING TCP-10 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT (1.5m) 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 (3m) OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

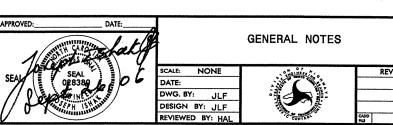
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.
- H) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT (5m) OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.
- I) DO NOT INSTALL MORE THAN 2 MILES OF LANE CLOSURE ON ANY ROUTE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- J) DO NOT INSTALL MORE THAN 2 SIMULTANEOUS LANE CLOSURES, IN ANY ONE DIRECTION, ON ANY ROUTE.
- K) AS DIRECTED BY THE ENGINEER, USE PILOT VEHICLE OPERATION IN CONJUNCTION WITH FLAGGERS AND ANY OTHER TRAFFIC CONTROL DEVICES TO MAINTAIN TRAFFIC WITHIN THE 2 MILE STATIONARY WORK ZONE WHEN GUARDRAIL EQUIPMENT IS LOCATED WITHIN 5 FEET OF THE EDGE OF PAVEMENT.
- L) COMPLETE EACH GUARDRAIL SECTION BEFORE MOVING TO ANOTHER SECTION AND/OR BY THE END OF EACH WORKDAY UNLESS INCLEMENT WEATHER OR OTHER CONDITIONS BEYOND THE CONTROL OF CONTRACTOR, INTERFERE WITH THE WORK.
- M) AT END OF EACH WORKDAY, ALL INSTALLED POSTS SHALL HAVE A GUARDRAIL ON THEM AND FOR UNFINISHED WORK PLACE TEMPORARY END UNITS OR OTHER METHODS APPROVED BY THE ENGINEER TO PROTECT THE TRAVELING PUBLIC FROM THE INCOMPLETE GUARDRAIL SECTION AT NO EXPENSE TO THE DEPARTMENT.
- N) WHEN A PERIOD OF INACTIVITY IS ANTICIPATED TO BE GREATER THAN 4 HOURS WITHIN THE 2 MILE WORK ZONE, STAGE THE WORK SO THAT ALL LANES OF TRAFFIC CAN BE REOPENED TO TRAFFIC AND ALL CONSTRUCTION AND TRAFFIC CONTROL EQUIPMENT CAN BE REMOVED TO A LOCATION GREATER THAN 10 FEET FROM EDGE OF PAVEMENT UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- O) PROVIDE A MINIMUM OF 2 MILES BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

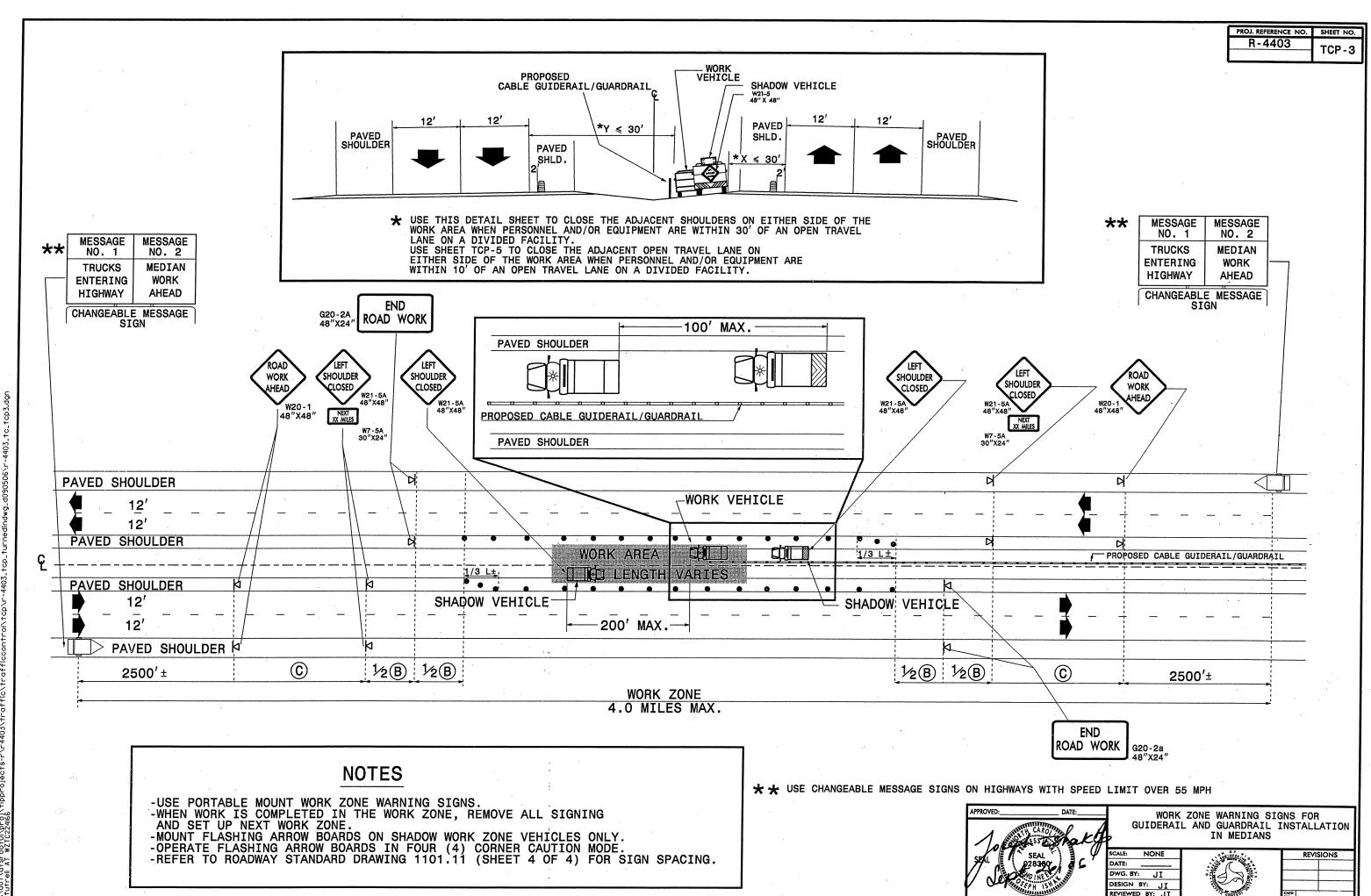
TRAFFIC CONTROL DEVICES

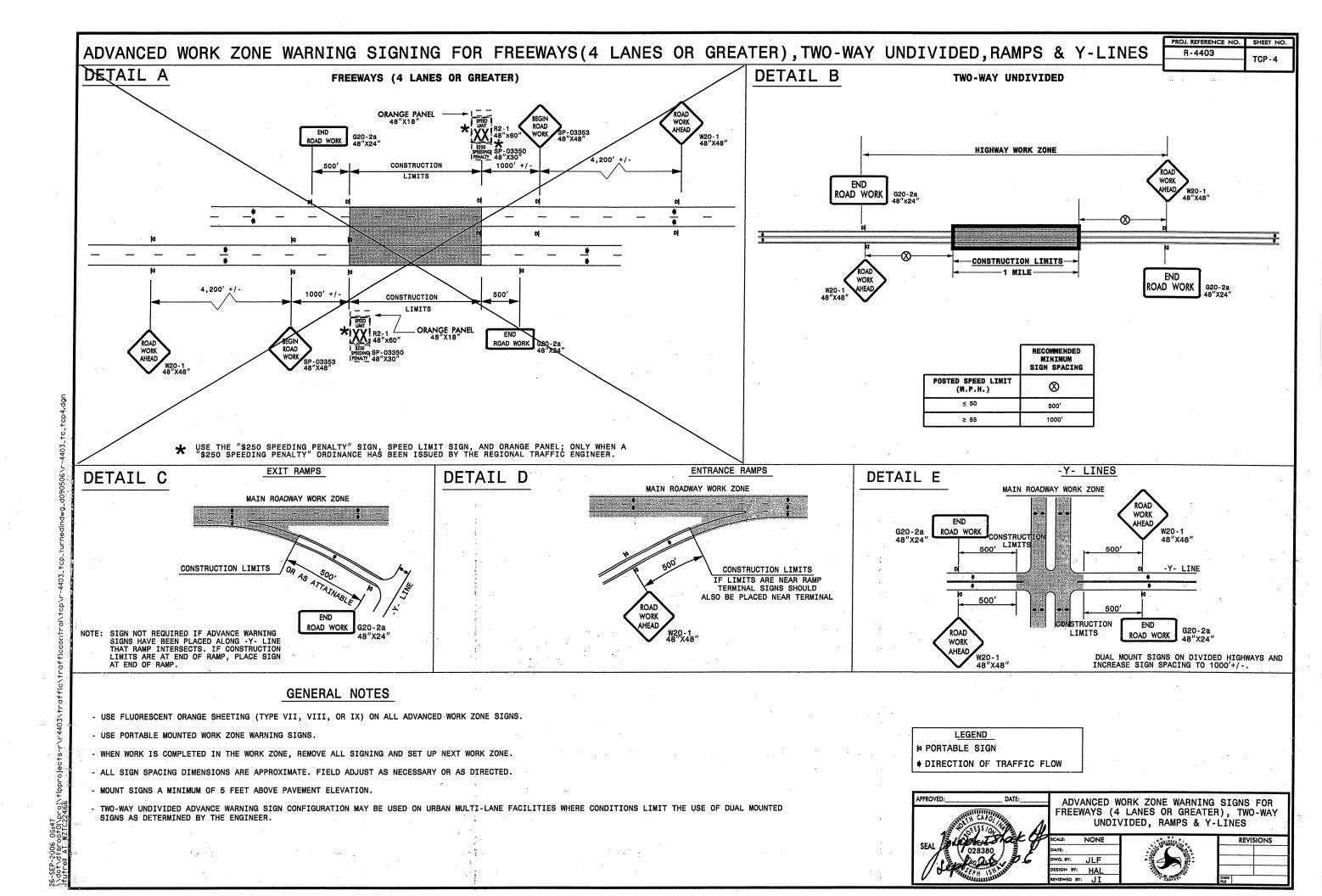
- P) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT (3m) ON-CENTER IN RADII, AND 3 FT (1m) OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.
- Q) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT (150m) CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.

MISCELL ANEOUS

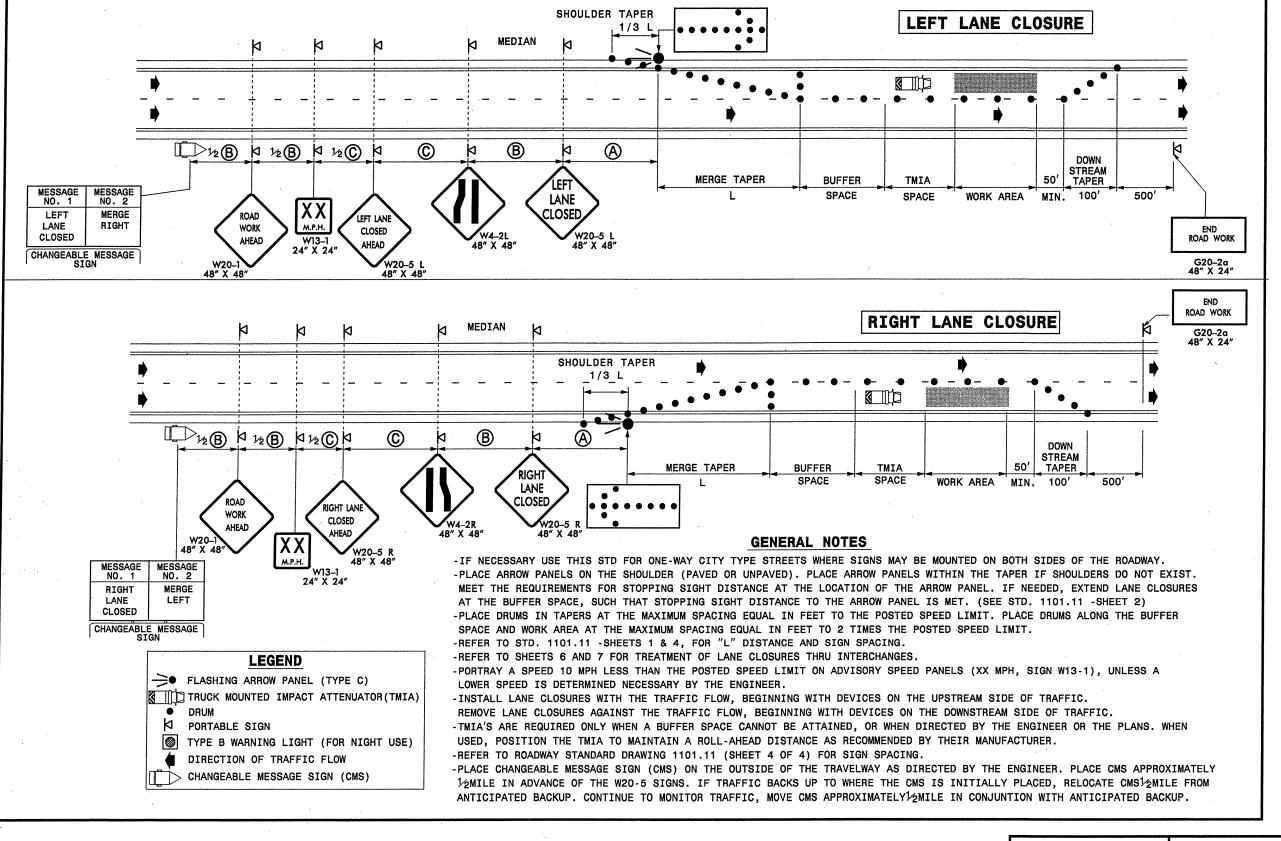
R) MAINTAIN CONTINUOUS AND SAFE VEHICULAR ACCESS, INCLUDING BUT NOT LIMITED TO ALL RESIDENCES, BUSINESSES, SCHOOLS, POLICE AND FIRE STATIONS, HYDRANTS, OTHER EMERGENCY SEVICES, HOSPITAL AND MAILBOXES USING SUITABLE BACKFILL MATERIAL APPROVED BY THE ENGINEER.

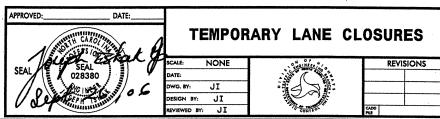






PROJ. REFERENCE NO. SHEET NO.
R-4403 TCP-5





GENERAL NOTES

- (1) THE FOLLOWING OPTIONS MAY BE USED AS THE FIRST ADVANCE WARNING THE MOTORISTS SEES:
 - A. TRUCK MOUNTED ADVANCE WARNING SIGNS
 - B. MOVING CHANGEABLE MESSAGE SIGN (CMS)
 C. GROUND MOUNTED ADVANCE WARNING SIGNS
 (MUST USE 'NEXT 10 MILES' AND MAKE CIRCLE TO
 - PICK UP SIGNS)

 D. STATIONARY CHANGEABLE MESSAGE SIGN (CMS)
 (MUST USE 'NEXT 10 MILES' AND MAKE CIRCLE TO
 PICK UP CMS)
- (2) TOTAL DISTANCE BETWEEN FIRST AND LAST VEHICLE IN CARAVAN SHOULD BE APPROXIMATELY ONE (1) MILE IN LENGTH.
- (3) IF USING GROUND MOUNTED ADVANCE WARNING SIGNS OR STATIONARY CMS, THE TOTAL DISTANCE BETWEEN THE FIRST ADVANCE WARNING SIGN OR CMS AND APPLICATION VEHICLE SHOULD NOT EXCEED 10 MILES AND SIGN W21-3BSP SHOULD READ 'MACHINERY IN ROAD NEXT 10 MILES'.
- (4) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHT BAR.

- (5) SIGN W20-5L SHOULD BE PLACED ON BACK OF PROTECTION VEHICLE AND SIGN W20-LD ON BACK OF ADVANCE WARNING VEHICLE IN MULTILANI DIVIDED TRAFFIC SO VEHICLES APPROACHING FROM REAR ARE NOTIFIED OF OPERATION
- (6) RADIO COMMUNICATION BETWEEN VEHICLES IS RECOMMENDED.
- (7) USE A LIGHT BAR OR ROTATING BEACON ON THE ADVANCE WARNING VEHICLES.
- (8) USE OF CMS'S ARE OPTIONAL WITH ADVANCED WARNING VEHICLES.
- (9) USE A TYPE "B" FLASHING ARROW PANEL

PANEL TYPE MIN. SIZE
B 60"X30"

LEGEND

PORTABLE SIGN

DIRECTION OF TRAFFIC FLOW

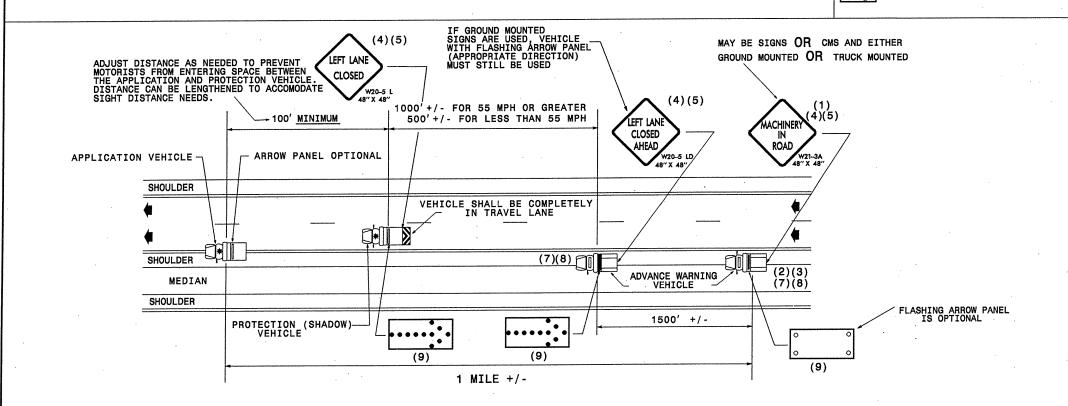
APPLICATION VEHICLE
WITH ROTATING BEACON

PROTECTION VEHICLE WITH TRUCK
MOUNTED IMPACT ATTENUATOR (TMIA
AND ROTATING BEACON (SEE ROADWA
STANDARD NO. 1165.01)

ADVANCE WARNING VEHICLE i.e.

FLASHING ARROW PANEL, TYPE "B"

FLASHING ARROW PANEL, TYPE "B"
APPROPRIATE DIRECTION INDICATED

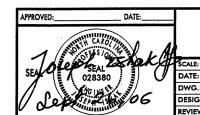


MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)

FOR INTERSTATE & HIGH VOLUME MULTILANE DIVIDED ROADWAYS
IN MEDIAN AND ON RIGHT SIDE W/PAVED SHOULDERS LESS THAN 10' WIDE

DRAWING NUMBER 1 IMPLEMENTATION DATE: 02/27/97 REVISED: 07/29/02



MOVING OPERATION CARAVAN

SCALE: NONE

DATE:

DWG. BY: JI

DESIGN BY: JI

REVIEWED BY: JI



REVISIONS

PROJ. REFERENCE NO. SHEET NO. R-4403 TCP-7

GENERAL NOTES

- (1) THE FOLLOWING OPTIONS MAY BE USED FOR THE FIRST ADVANCE WARNING THE MOTORISTS SEES:

 - A. TRUCK MOUNTED ADVANCE WARNING SIGNS
 B. MOVING CHANGEABLE MESSAGE SIGN (CMS)
 C. GROUND MOUNTED ADVANCE WARNING SIGNS
 - (MUST USE 'NEXT 10 MILES' AND MAKE CIRCLE TO PICK UP SIGNS)
 - D. STATIONARY CHANGEABLE MESSAGE SIGN (CMS)
 (MUST USE 'NEXT 10 MILES' AND MAKE CIRCLE TO
- (2) TOTAL DISTANCE BETWEEN FIRST AND LAST VEHICLE IN CARAVAN SHOULD BE APPROXIMATELY ONE (1) MILE IN LENGTH.
- (3) IF USING GROUND MOUNTED ADVANCE WARNING SIGNS OR STATIONARY CMS, THE TOTAL DISTANCE BETWEEN THE FIRST ADVANCE WARNING SIGN OR CMS AND APPLICATION VEHICLE SHOULD NOT EXCEED 10 MILES AND SIGN W21-5CSP SHOULD READ 'SHOULDER CLOSED NEXT 10 MILES'.
- (4) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHT BAR.

- (6) RADIO COMMUNICATION BETWEEN VEHICLES IS RECOMMENDED.
- (7) USE A LIGHT BAR OR ROTATING BEACON ON THE ADVANCE WARNING
- (8) USE OF CMS'S ARE OPTIONAL WITH ADVANCED WARNING VEHICLES.
- (9) USE A TYPE "B" FLASHING ARROW PANEL.

MIN. SIZE PANEL TYPE

60"X30"

PORTABLE SIGN

LEGEND

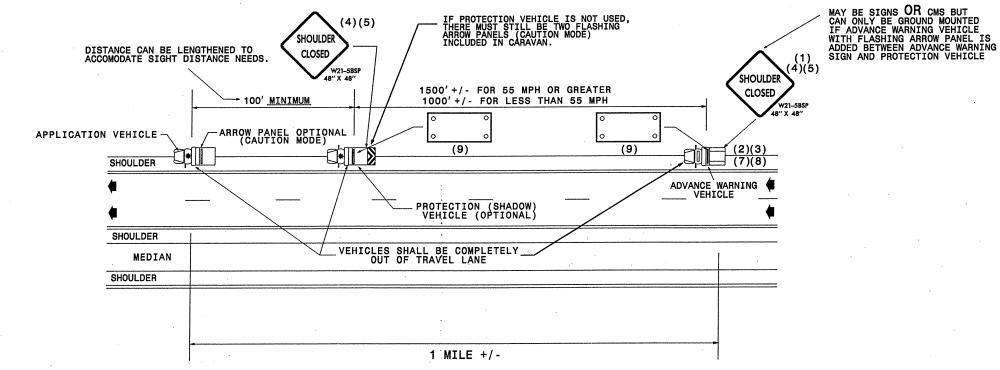
DIRECTION OF TRAFFIC FLOW

APPLICATION VEHICLE WITH ROTATING BEACON

PROTECTION VEHICLE WITH TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) AND ROTATING BEACON (SEE ROADWAY STANDARD NO. 1165.01)

ADVANCE WARNING VEHICLE i.e. PICKUP TRUCK WITH MOUNTED SIGN

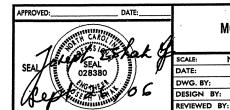
FLASHING ARROW PANEL, TYPE "B"
"CAUTION MODE"



MOVING OPERATION CARAVAN (OPERATIONS TRAVELING 3 MPH OR FASTER)

FOR INTERSTATE & HIGH VOLUME MULTILANE DIVIDED ROADWAYS IN MEDIAN AND ON RIGHT SIDE W/PAVED SHOULDERS 10' OR WIDER

DRAWING NUMBER 2 IMPLEMENTATION DATE: 02/27/97 REVISED: 07/29/02



MOVING OPERATION CARAVAN

DWG. BY: JI DESIGN BY: JI



REVISIONS

GENERAL NOTES

- (1) THE FOLLOWING OPTIONS MAY BE USED AS THE FIRST ADVANCE WARNING THE MOTORISTS SEES:
 - A. TRUCK MOUNTED ADVANCE WARNING SIGNS B. MOVING CHANGEABLE MESSAGE SIGN (CMS)
- (2) TOTAL DISTANCE BETWEEN FIRST AND LAST VEHICLE IN CARAVAN SHOULD BE APPROXIMATELY ONE (1) MILE IN LENGTH.
- (3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHT BAR.
- SIGN W20-L SHOULD BE PLACED ON BACK OF PROTECTION VEHICLE AND SIGN W21-3BSP ON BACK OF ADVANCE WARNING VEHICLE IN MULTILANE DIVIDED TRAFFIC SO VEHICLES APPROACHING FROM REAR ARE NOTIFIED OF OPERATION.

- (5) RADIO COMMUNICATION BETWEEN VEHICLES IS RECOMMENDED.
- (6) USE A LIGHT BAR OR ROTATING BEACON ON THE ADVANCE WARNING VEHICLES.
- (7) USE OF CMS'S ARE OPTIONAL WITH ADVANCED WARNING VEHICLES.
- (8) USE A TYPE "B" FLASHING ARROW PANEL.

MIN. SIZE

60"X30"

PORTABLE SIGN

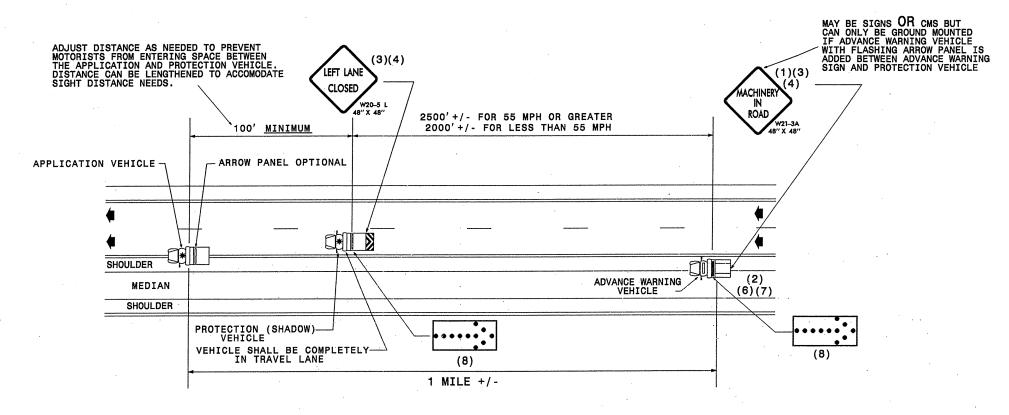
DIRECTION OF TRAFFIC FLOW

LEGEND

APPLICATION VEHICLE WITH ROTATING BEACON

ADVANCE WARNING VEHICLE i.e. PICKUP TRUCK WITH MOUNTED SIGN

FLASHING ARROW PANEL, TYPE "B"
APPROPRIATE DIRECTION INDICATED



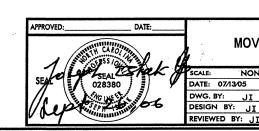
MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)

FOR OTHER MULTILANE DIVIDED ROADWAYS

IN MEDIAN AND ON RIGHT SIDE W/PAVED SHOULDERS LESS THAN 10' WIDE

DRAWING NUMBER 3 IMPLEMENTATION DATE: 07/01/97 REVISED: 07/29/02



MOVING OPERATION CARAVAN

JI