PROJ. REFERENCE NO.	SHEET NO.
I-0914BB	TMP-3

PHASING

PHASE I

NOTE: THE WORK REQUIRED OF PHASE I, STEP 5 AND STEP 6 MAY BE WORKED CONCURRENTLY WITH THE WORK REQUIRED OF PHASE I, STEPS 2 THROUGH STEPS 4. ADDITIONALLY, THE WORK REQUIRED OF PHASE I, STEP 6 MAY BE BEGUN AND COMPLETED AT A LATER TIME WITHIN THE PHASING IF DESIRED.

NOTE: THE WORK REQUIRED OF INTERMEDIATE CONTRACT TIMES IDENTIFIED IN PHASE I, STEPS 7 THROUGH STEPS 9 MAY BE COMPLETED AT ANY TIME DURING THE PROJECT DURATION AS LONG AS THERE ARE NOT ANY ACTIVE OR PLANNED OFF SITE DETOURS UTILIZING THE SPECIFIC ROUTES IDENTIFIED FOR CLOSURE WITHIN THE DURATION OF THE INTERMEDIATE CONTRACT TIME.

NOTE: ALL WORK ON I-85 THAT REQUIRE LANE CLOSURES WILL UTILIZE A VARIABLE SPEED LIMIT REDUCTION WITH A $250 PENALTY. A SPEED LIMIT REDUCTION WITH A $250 PENALTY WILL BE UTILIZED ON I-85 WHILE TRAFFIC IS IN A TWO-LANE, TWO-WAY PATTERN DIVIDED BY PORTABLE CONCRETE BARRIER.

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.01 AND GENERAL NOTE P ON SHEET TMP-1B.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE I, STEPS 2 THROUGH STEPS 6 BY NOVEMEBER 15, 2015.

STEP 2: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, COMPLETE THE FOLLOWING:
- INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS FOR THE I-85 SOUTHBOUND LANE CLOSURE AS SHOWN ON SHEETS TMP-14 THROUGH TMP-17. INSTALL WORK ZONE SIGNS AND DEVICES FOR THE I-85 SOUTHBOUND DIRECTION AS SHOWN ON SHEET TMP-17 AND PLACE 1-85 SOUTHBOUND TRAFFIC INTO THE PATTERN SHOWN ON SHEETS TMP-14 THRU TMP-17.
- INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHION ALONG I-85 SOUTHBOUND IN THE LOCATIONS SHOWN ON SHEETS TMP-14 THRU TMP-16.

STEP 3: USING SHEET TMP-2B, COMPLETE THE FOLLOWING BEHIND PORTABLE CONCRETE BARRIER:
- INSTALL TEMPORARY SHORING ALONG I-85 SOUTHBOUND IN THE LOCATIONS SHOWN ON SHEET TMP-15.
- INSTALL TEMPORARY GUARDRAIL ALONG -Y2- IN THE LOCATIONS SHOWN ON SHEET TMP-15.
- REMOVE A PORTION OF THE EXISTING I-85 SOUTHBOUND BRIDGE OVER -Y2- AND CONSTRUCT TEMPORARY BRIDGE WIDENING ON THE I-85 SOUTHBOUND BRIDGE OVER -Y2- AS SHOWN ON SHEET TMP-15 AND THE STRUCTURE PLANS.
- CONSTRUCT TEMPORARY WIDENING/PAVEMENT ALONG THE OUTSIDE SHOULDER OF I-85 SOUTHBOUND IN THE VICINITY OF I-85 SOUTHBOUND BRIDGE OVER -Y2- AS REQUIRED FOR THE UPCOMING PHASE II TRAFFIC SHIFT.

STEP 4: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, REMOVE PORTABLE CONCRETE BARRIER PLACED ALONG EXISTING I-85 SOUTHBOUND, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS BACK TO THE ORIGINAL PATTERN ON I-85 SOUTHBOUND, AND PLACE I-85 SOUTHBOUND TRAFFIC TRAFFIC BACK INTO THE ORIGINAL PATTERN WITHIN THE LIMITS MODIFIED BY THE WORK DESCRIBED IN PHASE I, STEPS 2 AND 3.

STEP 5: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, COMPLETE THE FOLLOWING:
- REMOVE AND REPLACE THE EXISTING I-85 SOUTHBOUND OUTSIDE SHOULDER IN THE LIMITS SHOWN ON SHEETS TMP-4 THRU TMP-10.
- CONSTRUCT PROPOSED -CR1N-, -CRY1RPC-, -CRY1RPD-, -CRY3RPC-, -CRY3RPD-, -CR2S- AS SHOWN ON SHEETS TMP-11, TMP-12, TMP-13, TMP-18, TMP-19 AND TMP-20.
- CONSTRUCT PROPOSED BREAKDOWN LANES FOR I-85 IN THE LOCATIONS SHOWN ON SHEET TMP-14.
- INSTALL TEMPORARY GUARDRAIL ALONG THE EXISTING MEDIAN SHOULDER OF I-85 SOUTHBOUND IN THE LOCATIONS SHOWN ON SHEETS TMP-04 THRU TMP-20.

STEP 6: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, FOR THE WORK ZONE WITHIN NORTH CAROLINA OR THE ACTUAL TMP DETAIL SHEETS FOR THE WORK ZONE WITHIN VIRGINIA, PERFORM THE FOLLOWING:
- REMOVE AND REPLACE THE EXISTING I-85 SOUTHBOUND OUTSIDE SHOULDER IN THE LIMITS SHOWN ON SHEETS TMP-101 THRU TMP-104. INSTALL A VIBRALINE PAVEMENT MARKING EDGE LINE (TO REPLACE THE ORIGINAL RUMBLE STRIPS) ON THE REPLACED OUTSIDE SHOULDER AS SHOWN ON SHEETS TMP-105 THRU TMP-110.
- CONSTRUCT PROPOSED -CR3N-, -CR3S-, -CRY4RPC- AND -CRY4RPD- AS SHOWN ON SHEETS TMP-105, TMP-107 AND TMP-108. KEEP PROPOSED TEMPORARY MEDIAN CROSSOVERS CLOSED WITH DRUMS AND TYPE III BARRICADES.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE I, STEP 7 IN 21 CONSECUTIVE CALENDAR DAYS.

STEP 7: USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, INSTALL OFF SITE DETOUR DETOUR SIGNING FOR THE CLOSURE OF -Y1- AS SHOWN ON SHEETS TMP-2P THRU TMP-2R. COVER THE OFF SITE DETOUR SIGNS UNTIL THE CLOSURE IS MADE OPERATIONAL. UNCOVER THE OFF SITE DETOUR SIGNS AND CLOSE ACCESS TO THE -Y1- BRIDGE OVER -L- TO THRU TRAFFIC. AWAY FROM TRAFFIC, COMPLETE THE -Y1- BRIDGE REHABILITATION WORK ACCORDING TO THE STRUCTURE DESIGN PLANS, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS BACK TO THE ORIGINAL PATTERN ACROSS THE -Y1- BRIDGE DECK AND RE-OPEN -Y1- TO TRAFFIC.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE I, STEP 8 IN 21 CONSECUTIVE CALENDAR DAYS.

STEP 8: USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, INSTALL OFF SITE DETOUR SIGNING FOR THE CLOSURE OF -Y3- AS SHOWN ON SHEETS TMP-2P AND TMP-2S THRU TMP-2T. COVER THE OFF SITE DETOUR SIGNS UNTIL THE CLOSURE IS MADE OPERATIONAL. UNCOVER THE OFF SITE DETOUR SIGNS AND CLOSE ACCESS TO THE -Y3- BRIDGE OVER -L- TO THRU TRAFFIC. AWAY FROM TRAFFIC, COMPLETE THE -Y3- BRIDGE REHABILITATION WORK ACCORDING TO THE STRUCTURE DESIGN PLANS, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS BACK TO THE ORIGINAL PATTERN ACROSS THE -Y3- BRIDGE DECK AND RE-OPEN -Y3- TO TRAFFIC.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE I, STEP 9 IN 21 CONSECUTIVE CALENDAR DAYS.

STEP 9: USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, INSTALL OFF SITE DETOUR SIGNING FOR THE CLOSURE OF -Y4- AS SHOWN ON SHEETS TMP-2P AND TMP-2U THRU TMP-2V. COVER THE OFFSITE DETOUR SIGNS UNTIL THE CLOSURE IS MADE OPERATIONAL. COORDINATE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION FOR THE -Y4- DETOUR ROUTES UTILIZING VIRGINIA'S ROAD NETWORK. UNCOVER THE OFF SITE DETOUR SIGNS AND CLOSE ACCESS TO THE -Y4- BRIDGE OVER -L- TO THRU TRAFFIC. AWAY FROM TRAFFIC, COMPLETE THE -Y4- BRIDGE REHABILITATION WORK ACCORDING TO THE STRUCTURE DESIGN PLANS, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS BACK TO THE ORIGINAL PATTERN ACROSS THE -Y4- BRIDGE DECK AND RE-OPEN -Y4- TO TRAFFIC.

PHASE II

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE II, STEP 1 THROUGH STEP 8 BY NOVEMBER 15, 2016. THE CONTRACTOR SHALL NOT BEGIN THE WORK REQUIRED OF PHASE II, STEPS 1 THROUGH STEP 8 UNTIL AFTER JANUARY 5, 2016.

STEP 1: USING THE VARIABLE SPEED LIMIT REDUCTION DETAIL, SHEET TMP-2A, COMPLETE THE FOLLOWING:
- PLACE I-85 SOUTHBOUND TRAFFIC IN THE INSIDE TRAVEL LANE AND REMOVE THE EXISTING OUTSIDE EDGE LINE(S) FROM STA. 28+35+/- TO STA. 377+35+/-. INSTALL TEMPORARY PAVEMENT MARKINGS AND THE SERIES OF WORK ZONE SIGNS AND DEVICES SHOWN ON SHEETS TMP-43 THRU TMP-46 AND PLACE I-85 SOUTHBOUND TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-33 THRU TMP-45.
- INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ALONG I-85 SOUTHBOUND IN THE LOCATIONS SHOWN ON SHEETS TMP-32 THRU TMP-43. AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS FOR THE UPCOMING I-85 NORTHBOUND TRAVEL LANES TRAFFIC SHIFT AND THE TEMPORARY RAMP CROSSOVER AREAS AS SHOWN ON SHEETS TMP-33 THRU TMP-43. ENSURE THAT ALL INSTALLED (TEMPORARY AND PERMANENT) GUARDRAIL IS LAPPED IN THE APPROPRIATE DIRECTION FOR AN UPCOMING TRAFFIC SHIFT PRIOR TO SHIFTING TRAFFIC INTO A NEW PATTERN.
- INSTALL THE LANE CLOSURE AND CROSSOVER TRAFFIC CONTROL DEVICES AS SHOWN ON SHEETS TMP-30 THRU TMP-33 AND PLACE I-85 NORTHBOUND TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-30 THRU TMP-43. UTILIZE DRUMS TO TEMPORARILY DELINEATE THE ENTRANCE AND EXIT RAMP CROSSINGS OF ORIGINAL I-85 NORTHBOUND UNTIL TEMPORARY PAVEMENT MARKINGS ARE INSTALLED FOR THOSE RAMP CROSSOVER MOVEMENTS AS SHOWN ON SHEETS TMP-34 THRU TMP-36 AND TMP-38 THRU TMP-40. INSTALL REMAINING PORTABLE CONCRETE BARRIER AND TEMPORARY GUARDRAIL WITHIN THE CROSSOVERS AS SHOWN ON SHEETS TMP-33, TMP-34, TMP-38, TMP-40, AND TMP-43. RELOCATE EXISTING GROUND MOUNTED INTERCHANGE GUIDE SIGNS FOR I-85 NORTHBOUND INTO THE PROPOSED MEDIAN USING WOODEN SUPPORTS OR TEMPORARY SKIDS. ENSURE THAT ALL INSTALLED (TEMPORARY AND PERMANENT) GUARDRAIL IS LAPPED IN THE APPROPRIATE DIRECTION FOR AN UPCOMING TRAFFIC SHIFT PRIOR TO SHIFTING TRAFFIC INTO A NEW PATTERN.

STEP 2: AWAY FROM TRAFFIC, CONSTRUCT PROPOSED I-85 NORTHBOUND INCLUDING THE PROPOSED I-85 NORTHBOUND BRIDGE OVER -Y2- IN THE LOCATIONS SHOWN ON SHEETS TMP-23 THRU TMP-43. AWAY FROM TRAFFIC, CONSTRUCT THE WEDGE DOWN SECTIONS ACCORDING TO THE ROADWAY DESIGN PLANS IN THE LOCATIONS SHOWN ON SHEETS TMP-33, TMP-42 AND TMP-43.

AWAY FROM TRAFFIC, CONSTRUCT PROPOSED -Y1RPD- IN THE LOCATIONS SHOWN ON SHEETS TMP-35.

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF TEMPORARY MAIN LINE CROSS-OVERS AND TEMPORARY RAMP CROSS-OVERS -CR1S-, -CR2N-, -CRY1RPB-, -CRY1RPA-, -CRY3RPB- AND -CRY3RPA-.

PLAN PREPARED IN THE OFFICE OF:
PROGRESSIVE DESIGN GROUP, INC.
ENGINEERS • CONSULTANTS

APPROVED: Tim Arey DATE: 2/2/2015

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM AREY

DIVISION OF HIGHWAYS • STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION • WORK ZONE TRAFFIC CONTROL

TRANSPORTATION MANAGEMENT PLAN
PHASING