PROJ. REFERENCE NO.	SHEET NO.
I-5725/I-5761	TMP-3

CONSTRUCTION NARRATIVE

THIS PROJECT HAS TWO SEPARATE CONSTRUCTION OPERATIONS. A DESCRIPTION OF EACH CONSTRUCTION OPERATION AND THE BASIC ACCOMPANYING TRAFFIC MANAGEMENT PROCEDURE TO ACCOMPOLISH THE CONSTRUCTION IS DESCRIBED BELOW:

SLAB REMOVAL AND REPLACEMENT

CONSTRUCTION DESCRIPTION: THIS OPERATION CONSISTS OF A TOTAL OF EIGHTEEN EXISTING SLABS THAT WILL BE REPLACED ALONG EXISTING SOUTHBOUND I-95 IN THE VICINITY OF MILE MARKER 132. TEN OF THE SLABS ARE LOCATED IN THE OUTSIDE LANE OF SOUTHBOUND I-95, FOUR OF THE SLABS ARE LOCATED IN THE INSIDE LANE OF SOUTHBOUND I-95 AND THE REMAINING FOUR SLABS ARE LOCATED IN THE PARALLEL PORTION OF THE RAMP ACCELERATION LANE FOR THE SANDY CROSS ROAD TO SOUTHBOUND I-95 ON RAMP. THESE SLABS WILL BE REMOVED AND REPLACED WITH A HIGH-EARLY CONCRETE.

TRAFFIC MANAGEMENT PROCEDURE: SOUTHBOUND I-95 WILL BE CLOSED AND PLACED ON THE OFF SITE DETOUR SHOWN IN THESE PLANS DURING THE SLAB REMOVAL AND REPLACEMENT PROCESS FOR THE SLABS LOCATED WITHIN THE SOUTHBOUND I-95 TRAVEL LANES. THESE SLABS WILL BE REMOVED AND REPLACED WITHIN THE 7 HOUR ROAD CLOSURE PERIOD ALLOWED BY THE INTERMEDIATE CONTRACT TIME IN THESE PLANS. THE FOLLOWING MORNING; SOUTHBOUND I-95 WILL BE OPENED UP INTO A ONE LANE PATTERN ALLOWING THE NEW SLAB IN THE CLOSED LANE TO FULLY CURE. NOTE THAT THE CONTINUOUS LANE CLOSURE RESTRICTION TIMES DESCRIBED WITHIN THE INTERMEDIATE CONTRACT TIME DO NOT ALLOW LANE CLOSURES ON I-95 DURING WEEKEND DAY LIGHT HOURS BEGINNING ON FRIDAY MORNING AT 7:00AM. THEREFORE, ALL SLAB REPLACEMENTS SHOULD BE COORIDATED WITHIN EACH WEEK SO THAT BOTH LANES OF SOUTHBOUND I-95 CAN BE OPENED UP TO TRAFFIC BY 7:00AM EACH FRIDAY MORNING. AN EXAMPLE CONSTRUCTION SEQUENCE IS AS FOLLOWS:

- CLOSE SOUTHBOUND I-95 ON SUNDAY NIGHT AT 11:00PM. COMPLETE SLAB REMOVAL AND REPLACEMENT ON X NUMBER OF SLAB(S) BEFORE 7:00AM MONDAY MORNING.
- REOPEN SOUTHBOUND I-95 TO ONE LANE BY 7:00AM MONDAY MORNING.
- CLOSE SOUTHBOUND I-95 ON MONDAY NIGHT AT 11:00PM. COMPLETE SLAB REMOVAL AND REPLACEMENT ON X NUMBER OF SLAB(S) BEFORE 6:00AM TUESDAY MORNING.
- REOPEN SOUTHBOUND I-95 TO ONE LANE BY 6:00AM TUESDAY MORNING.

THIS PROCESS CONTINUES THROUGHOUT THE WEEKDAYS HEADING INTO THE FRIDAY THROUGH SUNDAY DAY TIME LANE CLOSURE RESTRICTIONS. ALSO, PLEASE NOTE THAT ALL REMOVED SLABS SHALL BE REPLACED WITHIN THE SAME ROAD CLOSURE PERIOD PRIOR TO OPENING I-95 BACK UP TO TRAFFIC THE FOLLOWING MORNING. SLAB REMOVAL DROP OFFS WILL NOT BE ALLOWED ON I-95 WHEN I-95 IS OPENED TO TRAFFIC IN ANY LANE CONFIGURATION.

THE SLAB REMOVAL AND REPLACEMENT OPERATION FOR THE SLABS LOCATED IN THE PARALLEL PORTION OF THE RAMP ACCELERATION LANE FOR THE SANDY CROSS ROAD TO SOUTHBOUND I-95 ON RAMP SHALL BE ACCOMPLISHED WITH THE RAMP CLOSED TO TRAFFIC USING THE OFF SITE DETOUR SHOWN IN THESE PLANS AND SOUTHBOUND I-95 TRAFFIC PLACED IN THE MEDIAN LANE DURING THE LANE CLOSURE RESTRICTION TIMES SHOWN IN GENRAL NOTE A OF THESE PLANS. BOTH LANES OF I-95 SHALL BE REOPENED TO TRAFFIC BY 7:00AM THE FOLLOWING MORNING WITH THE ON RAMP REMAINING CLOSED. THIS PROCEDURE SHALL CONTINUE UNTIL THE REPLACED SLABS IN THE ACCELERATION LANE HAVE PROPERLY CURED.

LATEX MODIFIED OVERLAY

CONSTRUCTION DESCRIPTION: THIS PROCEDURE WILL TAKE PLACE ON NORTHBOUND I-95 IN THE VICINITY OF MILE MARKER 137. THE AREA ENCOMPASSED IS A FULL WIDTH (25'+/-) SECTION OF NORTHBOUND I-95 APPROXIMATELY 75'+/- IN LENGTH. IN THIS SECTION, BOTH LANES OF I-95 WILL BE HYDRO MILLED TO A DEPTH OF 3" AND REPLACED WITH A HIGH-EARLY LATEX MODIFIED OVERLAY.

TRAFFIC MANAGEMENT PROCEDURE: NORTHBOUND I-95 WILL BE CLOSED AND PLACED ON THE OFF SITE DETOUR SHOWN IN THESE PLANS DURING THE MILLING AND REPLACEMENT OVERLAY PROCESS. ONE LANE SHOULD BE MILLED AND REPLACED WITHIN THE 7 HOUR ROAD CLOSURE PERIOD ALLOWED BY THE INTERMEDIATE CONTRACT TIME IN THESE PLANS. THE FOLLOWING MORNING; NORTHBOUND I-95 WILL BE OPENED UP INTO A ONE LANE PATTERN ALLOWING THE NEW OVERLAY IN THE CLOSED LANE TO FULLY CURE. NOTE THAT THE CONTINUOUS LANE CLOSURE RESTRICTION TIMES DESCRIBED WITHIN THE INTERMEDIATE CONTRACT TIME DO NOT ALLOW LANE CLOSURES ON I-95 DURING WEEKEND DAY LIGHT HOURS BEGINNING ON FRIDAY MORNING AT 7:00AM. THEREFORE, ALL MILLING AND REPLACEMENTS SHOULD BE COORIDATED WITHIN EACH WEEK SO THAT BOTH LANES OF SOUTHBOUND I-95 CAN BE OPENED UP TO TRAFFIC BY 7:00AM EACH FRIDAY MORNING. ALSO, PLEASE NOTE THAT ALL MILLED SECTIONS SHALL BE REPLACED WITHIN THE SAME ROAD CLOSURE PERIOD PRIOR TO OPENING I-95 BACK UP TO TRAFFIC THE FOLLOWING MORNING. LOCATIONS WITH MILLED DROP OFFS WILL NOT BE ALLOWED ON I-95 WHEN I-95 IS OPENED TO TRAFFIC IN ANY LANE CONFIGURATION.

PHASING

STEPS 1 THRU 4 ARE FOR THE SLAB REMOVAL AND REPLACEMENT OPERATION

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS WITHIN THE PROJECT LIMITS AS SHOWN IN ROADWAY STANDARD DRAWING NO. 1101.01, SHEET 1 OF 3.

INSTALL AND COVER THE OFF SITE DETOUR SIGNING SHOWN ON SHEET TMP-2A.

NOTE: THE WORK REQUIRED OF STEPS 2 THRU 3 SHALL CONTINUE UNTIL ALL SLABS LOCATED WITHIN THE SOUTHBOUND I-95 TRAVEL LANES HAVE BEEN REPLACED.

INTERMEDIATE CONTRACT TIME:
COMPLETE THE WORK DESCRIBED IN STEPS 2 THRU 3 BEGINNING AT 11:00 PM ON A SUNDAY, MONDAY, TUESDAY, OR WEDNESDAY NIGHT AND COMPLETING BY THE FOLLOWING MORNING AT 6:00AM.

STEP 2: UNCOVER THE OFF SITE DETOUR SIGNING FOR SOUTHBOUND I-95 SHOWN ON SHEET TMP-2A. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 7 OF 9, EXIT ALL I-95 SOUTHBOUND TRAFFIC ONTO SANDY CROSS ROAD OFF RAMP.

COMPLETE THE SLAB REMOVAL AND REPLACEMNENT PROCESS AS DESCRIBED WITHIN THE NARRATIVE SECTION ABOVE.

STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 4 OF 15, INSTALL LANE CLOSURE DEVICES FOR SOUTHBOUND I-95, REMOVE THE ROAD CLOSURE DEVICES FOR I-95 INSTALLED IN STEP 2 ABOVE AND PLACE SOUTHBOUND I-95 TRAFFIC INTO A ONE LANE PATTERN. NOTE THAT SOUTHBOUND I-95 MUST REOPEN TO A TWO LANE PATTERN ON FRIDAY, SATURDAY AND SUNDAY MORNINGS AT 7:00AM.

NOTE: THE WORK REQUIRED OF STEP 4 SHALL BE COMPLETED WITHIN ONE NIGHT TIME CONSTRUCTION PERIOD (MULTIPLE CONSECUTIVE NIGHTS ARE ALLOWED) BEGINNING ON ANY DAY AT 8:00PM AND COMPLETING BY 7:00AM THE FOLLOWING MORNING. DAY TIME LANE CLOSURES ON I-95 WILL NOT BE ALLOWED FOR THIS OPERATION. HOWEVER, FULL TIME CLOSURE OF THE SANDY CROSS ROAD TO SOUTHBOUND I-95 ON RAMP WILL BE ALLOWED UNTIL THE REPLACED SLABS ARE PROPERLY CURED TO HANDLE TRAFFIC.

STEP 4: CLOSE THE SANDY CROSS ROAD TO SOUTHBOUND I-95 ON RAMP USING THE I-95 OFF SITE DETOUR FOR SANDY CROSS ROAD AS SHOWN ON SHEET TMP-2A. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 4 OF 15, PLACE SOUTHBOUND I-95 TRAFFIC INTO THE MEDIAN LANE. COMPLETE THE SLAB REMOVAL AND REPLACEMENT PROCESS ON THE SANDY CROSS ROAD TO SOUTHBOUND I-95 ON RAMP AS DESCRIBED WITHIN THE NARRATIVE SECTION. REMOVE THE SOUTHBOUND I-95 LANE CLOSURE DEVICES AND REOPEN SOUTHBOUND I-95 TO TWO LANES BEFORE 7:00AM THE FOLLOWING MORNING. KEEP THE SANDY CROSS ROAD TO SOUTHBOUND I-95 ON RAMP CLOSED TO TRAFFIC UNTIL 1THE REPLACED SLABS ARE PROPERLY CURED TO HANDLE TRAFFIC.

STEPS 5 THRU 6 ARE FOR THE LATEX MODIFIED OVERLAY OPERATION

NOTE: THE WORK REQUIRED OF STEPS 5 THRU 6 SHALL CONTINUE UNTIL THE HYDRO MILLING AND REPLACEMENT OPERATION LOCATED WITHIN THE NORTHBOUND I-95 TRAVEL LANES HAS BEEN COMPLETED.

INTERMEDIATE CONTRACT TIME:
COMPLETE THE WORK DESCRIBED IN STEPS 5 THRU 6 BEGINNING AT 11:00 PM ON A SUNDAY, MONDAY, TUESDAY, OR WEDNESDAY NIGHT AND COMPLETING BY THE FOLLOWING MORNING AT 6:00AM.

STEP 5: UNCOVER THE OFF SITE DETOUR SIGNING FOR NORTHBOUND I-95 SHOWN ON SHEET TMP-2A. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 7 OF 9, EXIT ALL I-95 NORTHBOUND TRAFFIC ONTO THE NC 97 OFF RAMP.

COMPLETE THE HYDRO MILLING AND OVERLAY PROCESS AS DESCRIBED WITHIN THE NARRATIVE SECTION ABOVE.

STEP 6: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 4 OF 15, INSTALL LANE CLOSURE DEVICES FOR NORTHBOUND I-95, REMOVE THE ROAD CLOSURE DEVICES FOR NORTHBOUND I-95 INSTALLED IN STEP 5 ABOVE AND PLACE NORTHBOUND I-95 TRAFFIC INTO A ONE LANE PATTERN. NOTE THAT NORTHBOUND I-95 MUST REOPEN TO A TWO LANE PATTERN ON FRIDAY, SATURDAY AND SUNDAY MORNINGS AT 7:00AM.

STEP 7: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 4 OF 15, INSTALL POLYUREA PAVEMENT MARKINGS AND SNOWPLOWABLE MARKERS IN ALL AREAS WHERE THE SLAB REPLACEMENT AND LATEX MODIFIED OVERLAY WAS CONDUCTED.

STEP 8: REMOVE ALL TRAFFIC CONTROL DEVICES.

PLAN PREPARED IN THE OFFICE OF:
PROGRESSIVE DESIGN GROUP, INC.
ENGINEERS • CONSULTANTS
PH 704 573 3003

APPROVED: DocuSigned by: Tim Arey DATE: 9/22/2015

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

CONSTRUCTION NARRATIVE AND TRAFFIC CONTROL PHASING