

## ALLOWABLE CLOSURE HOURS:

### ALLOWABLE LANE CLOSURE HOURS:

ROUTE 22 EASTBOUND, MP 50.62 - 50.80 (TWO TRAVEL LANE SECTION)

#### HOLIDAY SHOPPING SEASON

ALL LANES MAINTAINED

MONDAY THRU FRIDAY:	6:00AM TO 10:00PM
SATURDAY	8:00AM TO 10:00PM
SUNDAY	9:00AM TO 10:00PM

ONE LANE MAINTAINED - ONE LANE CLOSED

MONDAY THRU THURSDAY:	10:00PM TO 6:00AM (NEXT DAY)
FRIDAY	10:00PM TO 8:00AM (SATURDAY)
SATURDAY	10:00PM TO 9:00AM (SUNDAY)
SUNDAY	10:00PM TO 6:00AM (MONDAY)

#### ALL OTHER TIMES OF THE YEAR

ALL LANES MAINTAINED

MONDAY THRU FRIDAY:	6:00AM TO 9:00PM
SATURDAY	8:00AM TO 9:00PM
SUNDAY	9:00AM TO 9:00PM

ONE LANE MAINTAINED - ONE LANE CLOSED

MONDAY THRU THURSDAY:	9:00PM TO 6:00AM (NEXT DAY)
FRIDAY	9:00PM TO 8:00AM (SATURDAY)
SATURDAY	9:00PM TO 9:00AM (SUNDAY)
SUNDAY	9:00PM TO 6:00AM (MONDAY)

ROUTE 22 WESTBOUND, MP 50.62 - 50.80 (TWO TRAVEL LANE SECTION)

#### HOLIDAY SHOPPING SEASON

ALL LANES MAINTAINED

MONDAY THRU FRIDAY:	6:00AM TO 11:00PM
SATURDAY	8:00AM TO 11:00PM
SUNDAY	9:00AM TO 11:00PM

ONE LANE MAINTAINED - ONE LANE CLOSED

MONDAY THRU THURSDAY:	11:00PM TO 6:00AM (NEXT DAY)
FRIDAY	11:00PM TO 8:00AM (SATURDAY)
SATURDAY	11:00PM TO 9:00AM (SUNDAY)
SUNDAY	11:00PM TO 6:00AM (MONDAY)

#### ALL OTHER TIMES OF THE YEAR

ALL LANES MAINTAINED

MONDAY THRU FRIDAY:	6:00AM TO 10:00PM
SATURDAY	8:00AM TO 10:00PM
SUNDAY	9:00AM TO 10:00PM

ONE LANE MAINTAINED - ONE LANE CLOSED

MONDAY THRU THURSDAY:	10:00PM TO 6:00AM (NEXT DAY)
FRIDAY	10:00PM TO 8:00AM (SATURDAY)
SATURDAY	10:00PM TO 9:00AM (SUNDAY)
SUNDAY	10:00PM TO 6:00AM (MONDAY)

IN ADDITION, LANE, SHOULDER OR RAMP CLOSURES WILL NOT BE PERMITTED ON THE FOLLOWING HOLIDAYS:

EASTER SUNDAY:	(INCLUDING 6:00AM SATURDAY UNTIL NOON MONDAY)
MEMORIAL DAY:	(SEE NOTE BELOW)
INDEPENDENCE DAY:	(SEE NOTE BELOW)
LABOR DAY:	(SEE NOTE BELOW)
ELECTION DAY:	(6:00 AM UNTIL 8:00 PM THE DAY OF)
THANKSGIVING DAY:	(SEE NOTE BELOW)
CHRISTMAS DAY:	(SEE NOTE BELOW)
NEW YEAR'S DAY:	(SEE NOTE BELOW)

NOTE:

IF HOLIDAY FALLS ON: NO LANE CLOSURE PERMITTED:

SUNDAY OR MONDAY:	6:00 AM FRIDAY UNTIL NOON TUESDAY
TUESDAY:	6:00 AM FRIDAY UNTIL NOON WEDNESDAY
WEDNESDAY:	6:00 AM TUESDAY UNTIL NOON THURSDAY
THURSDAY:	6:00 AM WEDNESDAY UNTIL NOON MONDAY
FRIDAY OR SATURDAY:	6:00 AM THURSDAY UNTIL NOON MONDAY

## ADDITIONAL CLOSURE NOTES:

1. THE HOLIDAY SHOPPING SEASON SHALL START ON FRIDAY 6 AM OF THE WEEKEND BEFORE THANKSGIVING, AND END AFTER SUNDAY OF THE WEEKEND AFTER NEW YEAR'S DAY.
2. RAMPS / AUXILIARY LANES / SIDE STREETS MAY BE CLOSED BETWEEN THE HOURS OF 11:00 PM AND 5:00 AM THE NEXT DAY UNLESS OTHERWISE SPECIFIED. AN APPROVED SIGNED DETOUR IS REQUIRED FOR ALL RAMPS / AUXILIARY LANES / SIDE STREETS CLOSURES. TWO CONSECUTIVE RAMPS / AUXILIARY LANES / SIDE STREETS MAY NOT BE CLOSED AT THE SAME TIME.
3. THE PROPOSED WORK AND LANE CLOSURES MUST BE COORDINATED WITH ANY OTHER PROJECTS THAT MAY BE UNDERWAY AT THE SAME TIME NEAR THE PROJECT AREA.
4. ACCESS TO ALL FIRE AND EMERGENCY LANES AND DRIVEWAYS MUST BE MAINTAINED DURING BUSINESS HOURS. ACCESS TO ALL FIRE AND EMERGENCY LANES AND AT LEAST ONE DRIVEWAY MUST BE MAINTAINED DURING NON-BUSINESS HOURS.
5. FOR TRAFFIC SHIFTS DURING CONSTRUCTION, SIGNS WILL BE NEEDED TO DESIGNATE BUSINESS DRIVEWAYS TO MINIMIZE TRAFFIC CONFUSION.

## SEQUENCE NOTES:

THE FOLLOWING ARE SEQUENCE GENERAL NOTES AND LISTING OF ACTIVITIES PERTAINING TO EACH STAGE. THE LISTING AND SEQUENCE OF ACTIVITIES ARE PROVIDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK REQUIRED BY THE CONTRACT WHETHER THE REQUIRED WORK OR ACTIVITY IS LISTED BELOW OR NOT.

### SEQUENCE GENERAL NOTES:

1. MAINTAIN TWO 11 FOOT LANES IN EACH TRAVEL DIRECTION THROUGHOUT ALL STAGES.
2. TEMPORARY GEOMETRY FOR STAGES 1 THROUGH 4B ARE DESIGNED FOR LOWER DESIGN SPEED THAN THE PROJECT DESIGN SPEED. CONSTRUCTION ZONE SPEED LIMIT WILL BE DETERMINED BY THE BUREAU OF TRAFFIC ENGINEERING, REGIONAL TRAFFIC ENGINEER - WORK ZONE. AT THE TIME OF ORDERING CONSTRUCTION, AS REQUESTED BY THE RE. THE SPEED LIMIT, R2-1 (BLACK ON WHITE) WITH ADDED WORK ZONE PLATE (BLACK ON ORANGE) SIGNS TO BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE BUREAU OF TRAFFIC ENGINEERING, REGIONAL TRAFFIC ENGINEER - WORK ZONE.
3. PRECAUTIONS TO BE TAKEN NOT TO IMPACT VERIZON DUCT BANK BURIED 5 FEET AWAY FROM SOUTH FASCIA. THE CONTRACTOR SHALL PROTECT THE EXISTING DUCT BANK DURING THE ENTIRE CONSTRUCTION PERIOD.
4. ENVIRONMENTAL RESTRICTIONS SHALL BE FOLLOWED DURING GIVEN TIME FRAME AS LISTED BELOW:

TREE CLEARING (INDIANA AND NORTHERN LONG-EARED BAT HABITAT)	APRIL 1 TO SEPTEMBER 30
IN-WATER WORK (FISH PASSAGE)	MAY 1 TO JULY 31
5. TREE CLEARING SHALL BE DONE PRIOR TO TEMPORARY RELOCATION OF UTILITIES ON ROUTE 22 EASTBOUND.
6. PRE-STAGE AND STAGES-1 THROUGH 4B SHALL CONSIST OF VARIOUS SHORT-TERM STAGES THAT ARE NEEDED TO PERFORM THE WORK IN THE SUBSEQUENT STAGE AND SUPPLEMENTAL WORK NOT COVERED BY THE LONG-TERM WORK AREAS. THE ACTIVITIES ARE TO BE COMPLETED DURING THE ALLOWABLE LANE CLOSURE HOURS AND MAY REQUIRE MULTIPLE CYCLES. A CYCLE IS DEFINED AS THE BEGINNING OF AN INSTALLATION OF AN OFF-PEAK CLOSING AND ENDS WITH THE REMOVAL OF AN OFF-PEAK CLOSING. THIS WORK MAY ALSO NECESSITATE THE NEED TO TEMPORARILY REMOVE C.B.C TO ACCESS AREA BELOW THE C.B.C.; THE C.B.C IS TO BE REPLACED PRIOR TO OPENING CLOSED LANE TO TRAFFIC.
7. STAGES 1 THROUGH 3 ARE LONG-TERM STAGES REQUIRED TO PERFORM BRIDGE/ROADWAY CONSTRUCTION AND ARE TO BE COMPLETED IN ASCENDING NUMERICAL ORDER.
8. DURING CONSTRUCTION IF MULTIPLE CYCLES REQUIRED FOR INSTALLATION, RELOCATION AND/OR REMOVAL OF BARRIER CURB THEN POSITIVE PROTECTION TO BE MAINTAINED AT ALL TIMES.
9. MAINTAIN DRAINAGE SYSTEM THROUGH ALL STAGES OF CONSTRUCTION USING EXISTING, TEMPORARY AND/OR PROPOSED PIPES AND STRUCTURES.
10. CONSTRUCT AND MAINTAIN SOIL EROSION MEASURES AS NECESSARY THROUGH ALL STAGES OF CONSTRUCTION. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE.
11. REFER TO STRUCTURE PLANS FOR TYPICAL STAGING SECTIONS.

### PRE-STAGE

1. SHIFT ROUTE 22 EASTBOUND TRAFFIC TO THE SOUTH AND SHIFT ROUTE 22 WESTBOUND TRAFFIC TO THE NORTH UTILIZING LANE CLOSINGS IN ACCORDANCE WITH NJDOT STANDARD TRAFFIC CONTROL DETAILS AND THE ALLOWABLE LANE CLOSURE HOURS.
5. REMOVE THE PORTION OF THE EXISTING MEDIAN BARRIER AND INSTALL MEDIAN CONSTRUCTION BARRIER CURB ON ROUTE 22 EASTBOUND AND ROUTE 22 WESTBOUND NOTE IF MULTIPLE CYCLES REQUIRED FOR INSTALLATION OF BARRIER CURB OR CONSTRUCTION OF TEMPORARY PAVEMENT THEN POSITIVE PROTECTION TO BE MAINTAINED AT ALL TIMES.
6. CONSTRUCT TEMPORARY MEDIAN PAVEMENT AND CONSTRUCT STAGE 1 TEMPORARY CROSSOVER PAVEMENT, STRIPING, DRAINAGE MODIFICATION ALONG GRASS MEDIAN IMMEDIATELY TO THE WEST OF THE BRIDGE TO ACCOMMODATE STAGE 1 EASTBOUND TRAFFIC WHICH WILL BE SHIFTED TO THE NORTH.
7. CLOSE RAMP OR DURING CONSTRUCTION BY UTILIZING CONSTRUCTION BARRIER AND BREAKAWAY BARRICADES.
8. INSTALL LEFT LANE CLOSING IN ACCORDANCE WITH NJDOT TCD-15 ON ROUTE 22 EASTBOUND AND REMOVE PORTION OF MEDIAN CONSTRUCTION BARRIER CURB ON EASTBOUND AND REALIGN TO STAGE 1 CONFIGURATION. PERFORM RESURFACING OF STAGE 1 CROSSOVER IN ROUTE 22 EASTBOUND LEFT LANE ON BOTH EAST AND WEST END OF THE CROSSOVER. INSTALL REMAINING STRIPING FOR STAGE 1 CROSSOVER UPON COMPLETION OF PAVEMENT. REALIGN REMAINING OF CONSTRUCTION BARRIER CURB TO STAGE 1 CONFIGURATION. ROUTE 23 EASTBOUND ADVANCE WARNING SIGNS FOR STAGE 1 ARE ALSO TO BE INSTALLED.
9. SHIFT ROUTE 22 EASTBOUND TRAFFIC TO STAGE 1 CONFIGURATION.

### STAGE 1

1. SHUT DOWN EXISTING 6" WATER MAIN RUNNING UNDER THE EASTBOUND LANES AND REPLACE WITH NEW WATER MAIN.
2. RELOCATE OVERHEAD UTILITIES ALONG ROUTE 22 EASTBOUND.
3. INSTALL TEMPORARY SHEETING AND DEMOLISH 35' SECTION OF THE SOUTHERN MOST PORTION OF THE EXISTING BRIDGE.
4. INSTALL TEMPORARY STEEL SHEETING ALONG EAST AND WEST FOOTINGS TO ALLOW WATER FLOW AND FISH PASSAGE.
5. USE DEWATERING METHODS TO PROVIDE DRY CONDITIONS IN WHICH TO CAST PROPOSED FOOTINGS.
6. CONSTRUCT CONCRETE FOUNDATION AND INSTALL PRECAST CULVERT UNIT 1 THROUGH 5 AS SHOW ON THE STRUCTURE DRAWING.
7. INSTALL MECHANICAL COUPLERS IN PROPOSED STRUCTURE FOR CONNECTION TO PROPOSED EASTBOUND PARAPET AND SIDEWALK REINFORCEMENT (CONSTRUCTED IN STAGE 4). PLUG MECHANICAL COUPLERS TO ALLOW FOR TRAFFIC TO TRAVEL OVER THEM DURING STAGES 2 AND 3.
8. CONSTRUCT PROPOSED ROADWAY WIDENING AND DRAINAGE ALONG ROUTE 22 EASTBOUND. DRAINAGE PIPE AND PAVEMENT TO BE CONSTRUCTED UTILIZING ALLOWABLE LANE CLOSURE HOURS ON ROUTE 22 EASTBOUND AND ONE-LANE TWO-WAY FLAGGER OPERATION ON WALNUT AVENUE.
9. CONSTRUCT FINAL PAVING ON ROUTE 22 EASTBOUND UP TO INTERMEDIATE COURSE TO THE LIMIT SHOWN ON TC-9.
10. CONSTRUCT TEMPORARY WIDENING ALONG ROUTE 22 EASTBOUND EXISTING RIGHT SHOULDER TO PROVIDE ADDITIONAL WIDTH FOR STAGE 2 TRAFFIC.
11. UTILIZE LANE CLOSING IN ACCORDANCE WITH NJDOT STANDARD TRAFFIC CONTROL DETAIL TO CONSTRUCT REMAINING OF FINAL PAVEMENT UP TO INTERMEDIATE COURSE AND 20:1 PAVMENT TRANSITION ON BOTH EAST AND WEST END OF THE CROSSOVER.
12. REALIGN CONSTRUCTION BARRIER CURB TO STAGE-2 CONFIGURATION. ROUTE 23 EASTBOUND ADVANCE WARNING SIGNS FOR STAGE 2 ARE ALSO TO BE INSTALLED. SHIFT ROUTE 22 EASTBOUND TRAFFIC ONTO NEWLY CONSTRUCTED SOUTHERN PORTION OF STRUCTURE DURING UTILIZING LANE CLOSINGS IN ACCORDANCE WITH NJDOT STANDARD TRAFFIC CONTROL DETAILS AND THE ALLOWABLE LANE CLOSURE HOURS. ROUTE 22 WESTBOUND TRAFFIC TO REMAIN IN SAME PATTERN AS DURING STAGE 1.

### STAGE 2

1. INSTALL TEMPORARY SHEETING AND DEMOLISH 30' SECTION OF THE SOUTHERN MOST PORTION OF THE EXISTING BRIDGE.
2. INSTALL TEMPORARY STEEL SHEETING ALONG EAST AND WEST FOOTINGS TO ALLOW WATER FLOW AND FISH PASSAGE.
3. USE DEWATERING METHODS TO PROVIDE DRY CONDITIONS IN WHICH TO CAST PROPOSED FOOTINGS. STAGE 1 SHEETING TO BE CUT TO ALLOW FOR CONNECTION TO FOOTINGS CONSTRUCTED IN STAGE 1.
4. CONSTRUCT CONCRETE FOUNDATION AND INSTALL PRECAST CULVERT UNIT 6 THROUGH 9 AS SHOW ON THE STRUCTURE DRAWING..
5. CONSTRUCT TEMPORARY MEDIAN PAVEMENT AND CONSTRUCT STAGE 3 TEMPORARY CROSSOVER PAVEMENT, STRIPING, DRAINAGE MODIFICATION ALONG GRASS MEDIAN IMMEDIATELY TO THE WEST OF THE BRIDGE TO ACCOMMODATE STAGE 1 EASTBOUND TRAFFIC WHICH WILL BE SHIFTED TO THE SOUTH. TEMPORARY PAVEMENT FROM STAGE 1 TO BE UTILIZED WHERE APPLICABLE.
6. INSTALL LEFT LANE CLOSING IN ACCORDANCE WITH NJDOT TCD-15 ON ROUTE 22 WESTBOUND. PERFORM RESURFACING OF STAGE-3 CROSSOVER IN ROUTE 22 WESTBOUND LEFT LANE ON BOTH EAST AND WEST END OF THE CROSSOVER. INSTALL REMAINING STRIPING FOR STAGE 1 CROSSOVER UPON COMPLETION OF PAVEMENT. REALIGN CONSTRUCTION BARRIER CURB TO STAGE-3 CONFIGURATION. ROUTE 23 WESTBOUND ADVANCE WARNING SIGNS FOR STAGE 3 ARE ALSO TO BE INSTALLED.
7. SHIFT ROUTE 22 WESTBOUND TRAFFIC ONTO NEWLY CONSTRUCTED MIDDLE PORTION OF STRUCTURE UTILIZING LANE CLOSINGS IN ACCORDANCE WITH NJDOT STANDARD TRAFFIC CONTROL DETAILS AND THE ALLOWABLE LANE CLOSURE HOURS. ROUTE 22 EASTBOUND TRAFFIC TO REMAIN IN SAME PATTERN AS DURING STAGE 2.

### STAGE 3

1. INSTALL TEMPORARY SUPPORTS FOR UTILITES RUNNING ALONG NORTH FASCIA OF BRIDGE INCLUDING WATER MAIN, GAS MAIN AND SANITARY FORCE MAIN.
2. DEMOLISH NORTHERN 30 FEET OF REMAINING STRUCTURE.
3. INSTALL TEMPORARY STEEL SHEETING ALONG EAST AND WEST FOOTINGS TO ALLOW WATER FLOW AND FISH PASSAGE.
4. USE DEWATERING METHODS TO PROVIDE DRY CONDITIONS IN WHICH TO CAST PROPOSED FOOTINGS. STAGE 2 SHEETING TO BE CUT TO ALLOW FOR CONNECTION TO FOOTINGS CONSTRUCTED IN STAGE 2.
5. CONSTRUCT CONCRETE FOUNDATION AND INSTALL PRECAST CULVERT UNIT 10 THROUGH 15 AS SHOW ON THE STRUCTURE DRAWING. CONSTRUCT WESTBOUND PARAPET.
6. REPLACE EXISTING NORTHWEST EMBANKMENT WITH RIP RAP DURING THIS STAGE.
7. CONSTRUCT DRAINAGE, FULL DEPTH PAVEMENT, CURBING, STRIPING, AND GUIDE RAIL ON ROUTE 22 WESTBOUND BEHIND CONSTRUCTION BARRIER. UTILIZE LANE CLOSURES ACCORDING WITH NJDOT STANDARD TRAFFIC CONTROL DETAILS DURING ALLOWABLE LANE CLOSURE HOURS TO CONSTRUCT PROPOSED DRAINAGE AND FULL DEPTH PAVEMENT IN AREAS WHICH ARE NOT BEHIND CONSTRUCTION BARRIER.
8. CONSTRUCT 20H:1V TEMPORARY PAVEMENT TRANSITION ON BOTH EAST AND WEST END OF THE BRIDGE. UTILIZE LANE CLOSING IN ACCORDANCE WITH NJDOT STANDARD TRAFFIC CONTROL DETAIL AS NECESSARY TO PERFORM THE PAVEMENT TRANSITION.

### STAGE 4A

1. SHIFT ROUTE 22 WESTBOUND TRAFFIC ONTO NORTHERN PORTION OF STRUCTURE UTILIZING LANE CLOSINGS IN ACCORDANCE WITH NJDOT STANDARD TRAFFIC CONTROL DETAILS AND THE ALLOWABLE LANE CLOSURE HOURS. ROUTE 22 EASTBOUND TRAFFIC TO REMAIN IN SAME PATTERN AS DURING STAGE 2.
2. REMOVE RAMP OR PAVEMENT AS WELL AS TEMPORARY PAVEMENT IN MEDIAN AREA.
3. REMOVE CONSTRUCTION BARRIER CURB AND RECONSTRUCT MEDIAN BARRIER.
4. CONSTRUCT PROPOSED ITS EQUIPMENT AND CAMERA POLE AND FOUNDATION AS SHOWN ON ITS PLANS.
5. CONSTRUCT PROPOSED HIGHWAY LIGHTING, PROPOSED ITS AND ITS RELOCATIONS.
6. SHIFT ROUTE 22 WESTBOUND TRAFFIC TO INTO FINAL CONDITION. REMOVE THE TEMPORARY PAVEMENT TRANSITION (20H:1V) CONSTRUCTED IN STAGE 3 ON BOTH EAST AND WEST END OF THE BRIDGE AND PERFORM REMAINING OF MILLING AND OVERLAY ON ROUTE 22 WESTBOUND UTILIZING LANE CLOSINGS IN ACCORDANCE WITH NJDOT STANDARD TRAFFIC CONTROL DETAILS AND THE ALLOWABLE LANE CLOSURE HOURS.

### STAGE 4B

1. SHIFT ROUTE 22 EASTBOUND TRAFFIC TO THE NORTH UTILIZING LANE CLOSINGS IN ACCORDANCE WITH NJDOT STANDARD TRAFFIC CONTROL DETAILS AND THE ALLOWABLE LANE CLOSURE HOURS.
2. INSTALL CONSTRUCTION BARRIER CURB FOR REMOVAL OF TEMPORARY PAVEMENT, CONSTRUCTION OF SOUTHERN CURB LINE AND FOR CONSTRUCTION OF EASTBOUND PARAPET AND SIDEWALK.
3. UPON CONSTRUCTION OF EASTBOUND PARAPET AND SIDEWALK, REMOVE CONSTRUCTION BARRIER CURB AND SHIFT ROUTE 22 EB TRAFFIC TO THE FINAL CONFIGURATION.
4. FINAL SURFACE COURSE TO BE CONSTRUCTED BY UTILIZING LANE CLOSING IN ACCORDANCE WITH NJDOT STANDARD TRAFFIC CONTROL DETAILS AND THE ALLOWABLE LANE CLOSURE HOURS.

TC-2  
TC-16

NEW JERSEY DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL AND STAGING PLAN**  
**ROUTE 22 BRIDGE OVER ECHO LAKE**

**CONTRACT NO. 051143300**

MICHAEL BAKER INTERNATIONAL, INC.  
CERTIFICATE OF AUTHORIZATION NO. 24GA27954700

*Cynthia J. Coupe*  
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NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE03480900

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