



PS&E CONSTRUCTION SCHEDULE NARRATIVE

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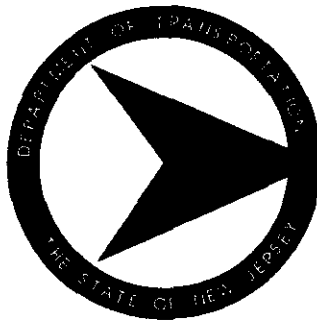
GORDON'S CORNER ROAD OVER ROUTE 9

BRIDGE SUPERSTRUCTURE REPLACEMENT

TOWNSHIP OF MANALAPAN

MONMOUTH COUNTY, NEW JERSEY

NJDOT CONTRACT NO. 118003160



SEPTEMBER 3, 2009

0708045-02
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Project Description

The Gordon's Corner Road bridge, No.1303-156 is located on County Route 3 in Manalapan Township, Monmouth County. County Route 3 runs east-west direction. The bridge was constructed in 1939. There are existing intersections immediately adjacent to the structure in both of east and west approaches. On the west side of the bridge, Gordon's Corner Road intersects Tennent Road (C.R. 3) and the ramps to and from Route 9 Southbound at a signalized double "T" intersection. In the east approach to the bridge, there is a "Y" intersection with Morganville Road (C.R. 3) and Wickatunk Road branching to the north and south of the structure, respectively. The 14th Cycle Bridge Re-evaluation Survey Report prepared by PolyTran Engineering Association, P.C., dated November 2004, described the condition rating for the bridge deck as 4 or "Poor" due to defects on the underside of the deck. The report also identified substandard vertical clearance and noted severe rusting of the exposed bottom flanges. The existing bridge deck, superstructure and approach slabs will be replaced and new bridge sidewalks and parapets constructed. Additionally, new guide rail and end treatments conforming to current standards will be constructed at all four corners of the bridge and intersection lighting will be provided to the existing traffic signal equipment west of the bridge.

Construction Staging

Seasonal restrictions on construction will not have an impact on construction operations and the contractor's ability to progress the project efficiently. The contractor will have to deal with regular weekday commuter traffic during AM and PM peak periods. The following restrictions will be included in the Traffic Control Plans:

Schedule of Allowable Lane Closure Hours

Any Route 9 SB single lane closures must be performed in accordance with following schedule:

May 15 – September 15

Monday thru Thursday: 10 pm -6 am the next day

January 6 thru May 14 and September 16 thru November 14

Monday thru Thursday: 10 pm – 6 am the next day

Friday: 11 pm – 8 am Saturday

Saturday: 11 pm – 9 am Sunday

Sunday: 10 pm – 6 am Monday

November 15 thru January 5

Monday thru Thursday: 11 pm – 6 am the next day

Friday: 11 pm – 8 am Saturday

Saturday: 11 pm – 9 am Sunday

Sunday: 10 pm – 6 am Monday

Any Route 9 NB single lane closures must be performed in accordance with following schedule:

May 15 – September 15

Monday thru Thursday: 9 pm – 6 am the next day

January 6 thru May 14 and September 16 thru November 14
 Monday thru Thursday: 9pm – 6 am the next day
 Friday: 9 pm – 8 am Saturday
 Saturday: 10 pm – 9 am Sunday
 Sunday: 10 pm – 6 am Monday

November 15 thru January 5
 Monday thru Thursday: 10 pm – 6 am the next day
 Friday: 10 pm – 8 am Saturday
 Saturday: 10 pm – 9 am Sunday
 Sunday: 10 pm – 6 am Monday

Route 9 weekend replacement of superstructure using pre-cast modules. Allowable single lane closure hours:

January 6 thru May 14 and September 16 thru November 14
 RT 9 NB Friday: 8 pm – 6 am Monday
 RT 9 SB Friday: 9 pm – 6 am Monday

For all other work, single lane closure schedule listed above, will apply.

Route 9 NB & SB shoulder closure will be permitted anytime, with no restrictions due to holidays.

Acceleration and deceleration lane closure will conform to the single lane closure schedule listed above, except they may be closed from 7 days before the beginning of stage 3 to 7 days after the end of Stage 3 using traffic pattern C.

Gordon's Corner Road local streets and ramps night-time lane closures including Stage 1 Construction: 8 pm to 5 am the next day.

Gordon's Corner Road weekend closure for replacement of superstructure using precast modules: Friday 8 pm to 6 am Monday.

In addition, single lane closure will not be permitted on the following holidays:

- Easter Sunday (Including 6:00 am Saturday until Noon Monday)
- Memorial Day (See Note below)
- July 4th (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

Sunday or Monday
 Tuesday
 Wednesday
 Thursday
 Friday or Saturday

NO LANE CLOSURE PERMITTED

6:00 am Friday until Noon Tuesday
 6:00 am Friday until Noon Wednesday
 6:00 am Tuesday until Noon Thursday
 6:00 am Wednesday until Noon Monday
 6:00 am Thursday until Noon Monday

STAGE 1A

Work to be performed during Stage 1A includes the repair of the pier and abutments; installation, monitoring and removal of the ECE process; and the installation of temporary shielding on the existing bridge. Maintain pedestrian traffic across the bridge during Stage 1A.

STAGE 1B

Do not begin Stage 1B more than 7 days before the beginning of Stage 2. Maintain pedestrian traffic across the bridge during Stage 1B. Work to be performed during Stage 1B includes:

Gordon's Corner Road: Removing existing concrete center island.

Route 9: Preparation for removal of superstructure and deck and installation of temporary shielding.

STAGE 2

Do not begin Stage 2 more than 14 days before the beginning of Stage 3. Maintain pedestrian traffic across the bridge until 7 days before the beginning of Stage 3. Work to be performed during Stage 2 includes:

Gordon's Corner Road: Prepare the north side of the bridge for removal and remove existing northwest and northeast concrete approach roadways and prepare subgrade as specified on Sheet 31 (B-5). Not more than 7 days before the beginning of Stage 3, close the bridge to pedestrian traffic, remove the south parapet and prepare the south sidewalk area for removal as specified on Sheet 31 (B-5).

Route 9: Continue preparing superstructure and deck for removal. Construct temporary median cuts. Not more than 7 days before the beginning of Stage 3, implement Pattern C, close ramps D and E and a portion of Ramp C and prepare the Identified Staging Areas subject to the closure durations specified in 162.03.01 of the Special Provisions. Construct temporary lighting, as specified in 162.03.04 of the Special Provisions, immediately after existing lighting is removed by JCP&L even if removal occurs more than 7 days before the beginning of Stage 3. Do not construct temporary curb cuts along commuter parking lot more than 7 days before the beginning of Stage 3.

STAGE 3

Stage 3 begins at 6AM Friday and ends at 6AM the following Monday (72 hours) for purposes of setting durations of other work activities. Allowable lane closure hours for Route 9 NB and SB during Stage 3 are as specified in the Schedule of Allowable Lane Closure Hours under "Route 9 weekend replacement of superstructure using pre-cast modules". Route 9 may be restricted to one lane NB and one lane SB for the durations specified. Allowable closure hours for Gordon's Corner Road during Stage 3 are as specified in the Schedule of Allowable Lane Closure Hours. Gordon's Corner Road may be closed and traffic detoured for the duration specified.

The work to be completed during Stage 3 includes the removal and replacement of the superstructure and deck of the bridge and the removal and replacement of the concrete bridge approaches. Gordon's Corner Road must be reopened using the traffic pattern for Stage 4 by the end of the specified closure duration.

Stage 3 will be completed in one weekend. The Department will not approve a construction schedule which requires more than one weekend to complete Stage 3 construction.

STAGE 4

The bridge may remain closed to pedestrian traffic during Stage 4. Work to be performed during Stage 4 includes:

Gordon's Corner Road: Construct wingwalls, sidewalks, parapets, fence and approach guiderail.

Route 9: Install precast cheek walls. Apply epoxy waterproofing and concrete surface treatment. Remove temporary shielding. Restore temporary median cuts within 14 days after the end of Stage 3. Remove full time Pattern C and reopen Ramps C, D and E for public use within 7 days after the end of Stage 3. Reconstruct commuter parking lot as specified in 162.03.01 of the Special Provisions.

Anticipated Production Rates

Production rates are based on an 8-hour work day per crew, except Stage 3. Stage 3 will consist of 3 24-hour days beginning at 6 am Friday morning ending at 6 am Monday morning. The 8-hour work day construction rates used were from tables in the NJDOT *Construction Scheduling Standard Coding and Procedures for Designers and Contractors Manual*. Table A, for Type 2 reconstruction, on pages 32 to 35 were used as a guide to determine rates. The Stage 3 rates were determined by CMX through extensive research including multiple meetings and conversations with fabricators and contractors.

Anticipated Workforce

It was assumed that one crew of the various types needed will be used at any one time for construction during any one day.

Anticipated Work during the Winter Season

During the period December through March each year, the total days of road construction will be 42 days total, more or less, which will include: Mobilization, Utility Relocations, Substructure Repairs at Pier, Application of Electrochemical Extraction (ECE), Substructure Repairs at Abutments, Monitoring ECE, Remove ECE and Install Temporary Shielding.

Permit Requirements

None required that will increase the overall construction duration.

Utility Requirements

Utility conflicts are anticipated with the Electric, Telephone, and Cable companies.

R.O.W. Requirements

Right of Way acquisitions, will not be required on this project.

Community Commitments

None available at this time.

Lead Time for Special Materials

Four months of lead time were provided in the schedule for the fabrication and delivery of prefabricated superstructure and precast concrete bridge approach.

Detour and Special Staging Time Frames

There will be a detour in place during Stage 1B and Stage 3 with no significant increase in construction time.