

**APRIL 1, 2020**  
**REPLACEMENT OF BRIDGE NO. 02708 CARRYING ROUTE 154**  
**OVER PLUM BANK CREEK**  
**FEDERAL AID PROJECT NO. N/A**  
**STATE PROJECT NO. 0105-0215**  
**TOWN OF OLD SAYBROOK**

**ADDENDUM NO. 1**

This Addendum addresses the following questions and answers contained on the “CT DOT QUESTIONS AND ANSWERS WEBSITE FOR ADVERTISED CONSTRUCTION PROJECTS”:

Question and Answer No. 4.

**SPECIAL PROVISIONS**  
**REVISED SPECIAL PROVISIONS**

The following Special Provisions are hereby deleted in their entirety and replaced with the attached like-named Special Provisions:

- **CONTRACT TIME AND LIQUIDATED DAMAGES**
- **NOTICE TO CONTRACTOR – MILESTONE LIQUIDATED DAMAGES PROVISIONS**
- **NOTICE TO CONTRACTOR – DETOUR PREREQUISITES**
- **SECTION 1.08 – PROSECUTION AND PROGRESS**

**CONTRACT ITEMS****NEW CONTRACT ITEMS**

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>
0910031	THRIE BEAM ATTACHMENT	EA.	4
0910300	METAL BEAM RAIL (R-B MASH)	L.F.	438
0911924	R-B END ANCHORAGE – TYPE II	EA.	1

**REVISED CONTRACT ITEMS**

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>ORIGINAL QUANTITY</u>	<u>REVISED QUANTITY</u>
0602030	DEFORMED STEEL BARS – GALVANIZED	20000 LB.	25000 LB.
0910400	CONVERT METAL BEAM RAIL (TYPE R-I TO TYPE R-I SYSTEM 2)	92 L.F.	155 L.F.
0910401	CONVERT METAL BEAM RAIL (TYPE R-I TO TYPE R-I SYSTEM 3)	80 L.F.	155 L.F.
0912503	REMOVE METAL BEAM RAIL	525 L.F.	792 L.F.
0976002	BARRICADE WARNING LIGHTS – HIGH INTENSITY	350 DAY	426 DAY
1131002	REMOTE CONTROL CHANGEABLE MESSAGE SIGN	28 DAY	56 DAY

**DELETED CONTRACT ITEMS**

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>ORIGINAL QUANTITY</u>	<u>REVISED QUANTITY</u>
0910021	R-B END ANCHORAGE – TYPE I	1 EA.	0
0910170	METAL BEAM RAIL (TYPE R-B 350)	325 L.F.	0
0910172	METAL BEAM RAIL (TYPE R-B 350 SYSTEM 5)	85 L.F.	0
0910173	R-B 350 BRIDGE ATTACHMENT – VERTICAL SHAPED PARAPET	4 EA.	0
0912602	RESET METAL BEAM RAIL	310 L.F.	0

**PLANS**

**NEW PLANS**

The following Plan Sheets are hereby added to the Contract:

03.04-1.A1  
HW-910\_20  
HW-910\_21  
HW-910\_26  
HW-910\_27  
HW-949\_01A  
HW-949\_01B

**REVISED PLANS**

The following Plan Sheets are hereby deleted and replaced with the like-numbered Plan Sheets:

02.01.A1  
03.05.A1  
03.07.A1  
04.02.A1  
04.03.A1  
04.09.A1  
04.19.A1  
04.25.A1  
04.26.A1  
04.27.A1  
04.28.A1  
04.29.A1

**DELETED PLANS**

The following Plan Sheets are hereby deleted in their entirety:

HW-910\_07  
HW-910\_09B  
HW-949\_01  
HW-949\_02

The Bid Proposal Form has been revised to reflect these changes.

The Detailed Estimate Sheet does not reflect these changes.

The number of calendar days has been revised in this Addendum from 285 days to 275 days.

The foregoing is hereby made a part of the contract.

November 13, 2019  
FEDERAL AID PROJECT NO. N/A  
STATE PROJECT NO. 0105-0215

REPLACEMENT OF BRIDGE NO. 02708 CARRYING  
ROUTE 154 OVER PLUM BANK CREEK

Town of Old Saybrook  
Federal Aid Project No. N/A

The State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 817, 2016, as revised by the Supplemental Specifications dated January 2019 (otherwise referred to collectively as "ConnDOT Form 817") is hereby made part of this contract, as modified by the Special Provisions contained herein. Form 817 is available at the following DOT website link <http://www.ct.gov/dot/cwp/view.asp?a=3609&q=430362>. The current edition of the State of Connecticut Department of Transportation's "Construction Contract Bidding and Award Manual" ("Manual"), is hereby made part of this contract. If the provisions of this Manual conflict with provisions of other Department documents (not including statutes or regulations), the provisions of the Manual will govern. The Manual is available at the following DOT website link <http://www.ct.gov/dot/cwp/view.asp?a=2288&q=259258>. The Special Provisions relate in particular to the Replacement of Bridge No. 02708 Carrying Route 154 Over Plum Bank Creek in the Town of Old Saybrook.

**CONTRACT TIME AND LIQUIDATED DAMAGES**

Two Hundred Seventy-Five (275) calendar days will be allowed for completion of the work on this Contract and the liquidated damages charge to apply will be One Thousand Five Hundred Dollars (\$1,500.00) per calendar day.

## **MILESTONE LIQUIDATED DAMAGES PROVISIONS**

In order to minimize the hazard, obstruction, inconvenience, and cost to the public, pollution of the environment, and detriment to area businesses, it is necessary to limit the time of construction work which interferes with traffic as specified in Article 1.08.04 of the Special Provisions.

The Contractor will be allowed for the closure of Route 154 and Bridge No. 02708 for the following 2 time periods to perform the listed tasks:

**Road Closure No. 1:** Route 154 and Bridge No. 02708 will be allowed to be closed to vehicular and pedestrian traffic for a maximum of 19 consecutive days (456 hours) beginning no sooner than September 14, 2020, at 12:00 AM (midnight) and re-opening to vehicular and pedestrian traffic no later than October 3, 2020 at 12:00 AM (midnight). A corresponding 4.5 mile detour will service the traffic as detailed within the Contract. The reopening of the noted bridge and route is defined below.

The tasks are:

- The **closure time frame begins** with the uncovering of the detour signage required on the Detour Plan
- Install temporary piles for temporary water main support structure.
- Construct temporary water main support structure.
- Install temporary water main.
- Install test piles and perform Dynamic Pile Driving Analysis (P.D.A.) test.
- Install temporary earth retaining system and construct build-out for temporary utility pole relocation.
- Install Temporary Precast Concrete Barrier Curb.
- **MILESTONE:** The **closure timeframe ends** with the completion of all above tasks and ancillary work thereto and with the reopening of Route 154 to normal traffic operations, exclusive of temporary alternating one-way traffic operations, as specified within the contract, that may be necessary to complete the project. "Normal traffic operations" are defined as one lane of traffic open in each direction with full shoulders.

**Road Closure No. 2:** Route 154 and Bridge No. 02708 will be allowed to be closed to vehicular and pedestrian traffic for a maximum of 84 consecutive days (2016 hours) beginning no sooner than March 1, 2021, at 12:00 AM (midnight) and re-opening to vehicular and pedestrian traffic no later than May 24, 2021 at 12:00 AM (midnight). A corresponding 4.5 mile detour will service the traffic as detailed within the Contract. The reopening of the noted bridge and route is defined below.

The tasks are:

- The **closure time frame begins** with the uncovering of the detour signage required on the Detour Plan.
- Remove Temporary Precast Concrete Barrier Curb.
- Remove any appurtenances attached to the concrete curb and parapets.
- Remove existing water main.
- Remove existing bituminous overlay on approaches and bridge.
- Remove existing roadway subbase.
- Install debris shield.
- Remove existing concrete deck slab, and parapets.
- Install fully enclosed cofferdams and excavate inside cofferdams.
- Complete abutment pile installation.
- Install cathodic protection system for cofferdam left in material protection.
- Install precast abutments and wingwalls, construct closure pours and fill abutment voids.
- Dampproof and backfill abutment and wingwalls.
- Excavate behind the existing abutments and cut off the cofferdam material.
- Install turbidity curtains.
- Construct revetments and place riprap.
- Partially remove existing abutments and wingwalls.
- Install elastomeric bearings and prestressed deck units. Post-tension the deck units.
- Form deck, install reinforcement, and place concrete deck.
- Construct cast-in-place wingwall stems and parapets.
- Perform full-depth roadway reconstruction and regrade slopes.
- Install waterproofing membrane and place HMA on bridge. Saw and seal pavement joints.
- Apply Penetrating Sealer Protective Compound.
- Install metal beam rail.
- Install temporary pavement markings.
- Removal of all signs pertaining to the closure of Route 154, as shown on the Detour Plan
- **MILESTONE:** The **closure timeframe ends** with the completion of all above tasks and ancillary work thereto and with the reopening of Route 154 to normal traffic operations, exclusive of temporary alternating one-way traffic operations, as specified within the contract, that may be necessary to complete the project. “Normal traffic operations” are defined as one lane of traffic open in each direction with full shoulders.

### **Readiness Plan**

**Prior to beginning work on the project, the Contractor shall furnish to the Engineer for approval a Readiness Plan consisting of a Critical Path Method (CPM) schedule that details all of the day-to-day operations necessary to complete the above tasks during the nineteen day and eighty-four day detour timeframes. The schedule shall include:**

- activity descriptions, activity durations and interdependence between activities, where applicable. The activities are to be described so that the work is readily identifiable and the progress on each activity can be readily measured and monitored during the noted timeframes
- the anticipated number of shifts, the hours per shift, and the anticipated number of personnel staffed per shift
- schedules of anticipated critical path utility relocations that, if not completed as scheduled, would delay the start of the scheduled closure period and/or tasks to be completed during that period
- anticipated submittal and approval dates
- anticipated material delivery dates

Accompanying the CPM schedule shall be the following, as applicable.

- description of any special resources, including back up equivalent resources
- Contingency plans for mechanical failure
- M&PT plans

All Department comments regarding the above Readiness Plan and CPM must be addressed in writing by the Contractor a minimum of fourteen (14) calendar days prior to the scheduled closure dates, including any outstanding readiness items. Five (5) days prior to the start of each closure, the Contractor shall meet with the Department to review any outstanding readiness items and coordinate final details for the implementation of the road closure.

The Contractor must notify the Engineer and the Town of Old Saybrook of the proposed closure date of Route 154 at least four weeks prior to each closure.

### **Milestone Liquidated Damages Terms and Conditions**

If the Contractor fails to complete, as accepted by the Engineer, the above-listed tasks by the Milestone Completion Dates, the Contractor will be assessed a liquidated damage charge of \$16,800 (Sixteen Thousand Eight Hundred Dollars) on the first minute after the defined Road Closure No. 1 timeframe period has expired, and shall be assessed additional liquidated damage charges at the rate of \$16,800 (Sixteen Thousand Eight Hundred Dollars) per day thereafter until the tasks and corresponding milestone are complete and accepted by the Engineer. The maximum assessment of Milestone Liquidated Damages shall be capped at \$84,000 (Eighty-Four Thousand Dollars) and shall be considered separate from any Liquidated Damages assessed to the Contractor for failure to complete the project on time per Section 1.08.09 of the Standard Specifications.

If the Contractor fails to complete, as accepted by the Engineer, the above-listed tasks by the Milestone Completion Dates, the Contractor will be assessed a liquidated damage charge of \$16,800 (Sixteen Thousand Eight Hundred Dollars) on the first minute after the defined Road Closure No. 2 timeframe period has expired, and shall be assessed additional liquidated damage charges at the rate of \$16,800 (Sixteen Thousand Eight Hundred Dollars) per day thereafter until the tasks and corresponding milestone are complete and accepted by the Engineer. The maximum assessment of Milestone Liquidated Damages shall be capped at \$336,000 (Three Hundred and Thirty-Six Thousand Dollars) and shall be considered separate from any Liquidated Damages

assessed to the Contractor for failure to complete the project on time per Section 1.08.09 of the Standard Specifications.

**The Contractor is responsible for determining the full scope of labor and equipment resources and anticipated accelerated operations needed to complete the milestone tasks by the Milestone Completion Dates, and shall bid the on-time completion of the work accordingly.**

Any and all costs or detrimental effects incurred by the Contractor in accelerating his work in an attempt to meet the Milestone Completion Date, regardless of the effects of any delay, disruption, inefficiency or other detrimental effect including, but not limited to, the deletion of Contract work, the issuing of construction orders, the execution of supplemental agreements, the discovery of differing site conditions, the adding of extra work to the Contract, the emergence of right-of-way conflicts, problems with the obtaining or the terms of permits, action or inaction by persons or entities working on the project or by third parties, delays in the process of reviewing or approving shop drawings, expansion of the physical limits of the Project, the effects of weather conditions on Project activities, the occurrence of weekends or holidays, the suspension of any Project operation, or other events, forces or factors that affect highway construction work, shall be solely the Contractor's responsibility, and may not be used as the basis for any claim by the Contractor for additional compensation.

The Contractor is directed to follow the procedures of Section 1.08.08 of the Form 817 Standard Specifications for any request presented to the Engineer for an adjustment of the Milestone Completion Date for any unforeseeable causes noted in Section 1.08.08 that have resulted in the need for an adjusted date. There will be no adjustment to the Milestone Completion Date for events, forces or factors, as noted above, that the Contractor was to have foreseen and included in the cost and schedule of his work.



## **NOTICE TO CONTRACTOR – DETOUR PREREQUISITES**

The Contractor shall complete the following tasks prior to the initiation of detours:

- 1- All shop and working drawings shall be submitted for review and shall be approved.
- 2- All materials needed for the project shall be onsite.

The Contractor shall complete the following tasks prior to the initiation of Detour No. 2:

- 1- All prestressed deck units shall be cured minimum 28 days.
- 2- All precast substructure elements shall be cast and approved.

## **SECTION 1.08 – PROSECUTION AND PROGRESS**

### **Article 1.08.04 - Limitation of Operations - Add the following:**

In order to provide for traffic operations as outlined in the Special Provision "Maintenance and Protection of Traffic," the Contractor will not be permitted to perform any work which will interfere with the described traffic operations on all project roadways as follows:

#### **Route 154**

Monday through Friday between 6:00 a.m. and 9:00 a.m. & between 3:00 p.m. and 6:00 p.m.  
Saturday and Sunday between 10:00 a.m. and 6:00 p.m.

While performing test piles, installing temporary utility support structures, and installing temporary water main, the Contractor will be allowed to close Route 154 in the vicinity of bridge 02708 and detour traffic for a maximum duration of 19 consecutive days beginning on Monday, September 14, 2020 at 12:00 a.m. and ending on or before Milestone Completion Date of Saturday, October 3, 2020 at 12:00 a.m.

During the replacement of bridge 02708, the Contractor will be allowed to close Route 154 in the vicinity of the bridge being replaced and detour traffic for a maximum duration of 84 consecutive days beginning on Monday, March 1, 2021 at 12:00 a.m. and ending on or before Milestone Completion Date of Sunday, May 24, 2021 at 12:00 a.m.

The Contractor shall notify the Engineer at least 14 days in advance of the start of the Route 154 closure.

#### **All Other Roadways**

Monday through Friday between 6:00 a.m. and 9:00 a.m. & between 3:00 p.m. and 6:00 p.m.  
Saturday and Sunday between 10:00 a.m. and 6:00 p.m.

#### **Night Work Restriction**

No work shall be permitted to take place between the hours of 8:00PM and 7:00AM on any roadway during any stage of construction.

**Article 1.08.07 - Determination of Contract Time:**

*Delete the second, third and fourth paragraphs and replace them with the following:*

When the contract time is on a calendar day basis, it shall be the number of consecutive calendar days stated in the contract, INCLUDING the time period from March 1, 2021 through March 31, 2021, but EXCLUDING the time period from December 1, through February 28. The contract time will begin on the effective date of the Engineer's order to commence work, and it will be computed on a consecutive day basis, including all Saturdays, Sundays, Holidays, and non-work days. After March 31, 2021, the contract time shall be on a calendar day basis, including all Saturdays, Sundays, Holidays, and non-work days which shall be the number of consecutive calendar days stated in the contract, EXCLUDING the time period from December 1, through February 28.