

PROJECT/DESCRIPTION - Trapelo Rd. & Belmont St., Belmont & Watertown, MA - Project File # 604688
100%/P.S.&E. HIGHWAY DESIGN REVIEW CHECKLIST Submission Date - March 2, 2012

PURPOSE

The purpose of the 100% review is to ensure that all comments from the 75% review have been satisfactorily addressed. The review also provides an opportunity to ensure that a complete contract package will be available for bidding and construction purposes.

GENERAL

The submittal shall include responses to 75% review comments; completed plans, special provisions and estimate and detail sheets.

Any question listed below with a No (N) or Not Applicable (NA) answer requires a written comment.

Y N NA 1.00 RESPONSE TO COMMENTS

- 1.01 ☒ ☐ ☐ Have all comments from the 75% review been addressed?

Comment: All the comments have been responded to.

PLANS

Y N NA 2.00 Title Sheet

- 2.01 ☒ ☐ ☐ Is the Title Sheet prepared consistent with Exhibit 18-14?

Comment: _____

- ☒ ☐ ☐ Are the latest documents referenced on the title sheet?

2.02 Comment: _____

Y N NA 3.00 Typical Sections

- 3.01 ☒ ☐ ☐ All proposed materials should be labeled on the Typical Sections. Are the material descriptions identical to the STANDARD NOMENCLATURE AND LIST OF STANDARD ITEMS or the material description in the STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES (STD. SPECS)?

Comment: _____

Y N NA 4.00 Construction Drawings

- 4.01 ☒ ☐ ☐ Is the disposition of all existing and proposed features located within the limits of work labeled?

Comment: _____

5.00 SPECIAL PROVISIONS

Special provisions should only be written when absolutely necessary to address a project specific issue that is not satisfactorily addressed in the STD. SPECS. and SUPPLEMENTAL SPECIFICATIONS, or if the item has an asterisk in the STANDARD NOMENCLATURE. If a special provision is absolutely necessary, particular attention should be paid to the basis of payment and method of measurement.

	Y	N	NA	
5.01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is an adequate Scope of Work provided?
	Comment: _____			
5.02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all the latest manuals, supplemental manuals and other documents that are to be part of the contract by reference, listed?
	Comment: _____			
5.03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If the project requires specific information relative to lane closures and traffic management is the information concisely conveyed as a supplement to subsection 7.09 Public Safety and Convenience?
	Comment: _____			
5.04	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is a complete list of affected utility companies included as a supplement to subsection 7.13 Protection and Restoration of Property?
	Comment: _____			
5.05	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is (are) the available workshift(s) described as a supplement to Subsection 8.02 Schedule of Operations?
	Comment: _____			
5.06	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do all items contained in the estimate with an asterisk in the STANDARD NOMENCLATURE have a special provision?
	Comment: _____			
5.07	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all item descriptions and units contained in the special provisions consistent with the estimate (and Standard Nomenclature if applicable)?
	Comment: _____			
5.08	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do all special provisions include a very specific, unambiguous, method of measurement and basis of payment that will eliminate the potential for disputes during construction?
	Comment: _____			
5.09	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the location for items to be removed and stacked clearly identified?
	Comment: We have not identified a location for the R&S Items to be stacked for pick up. It is our understanding that it is up to the Contractor to find a location to stack items for pick up. We had recommended that the Town equipment be delivered to the nearby Town of Belmont DPW facility but this was rejected.			
5.10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have the special provisions been reviewed to ensure that there are no proprietary items specified? If proprietary items are specified, please justify.
	Comment: _____			
	Y	N	NA	6.00 ESTIMATE
6.01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the methodology used to estimate the project consistent with the STD. SPECS. and the latest SUPPLEMENTAL SPECIFICATIONS?
	Comment: _____			
6.02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does every item of work shown on the plans have an associated pay item?
	Comment: _____			

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6.03 ☒ ☐ ☐ Do the unit prices reflect the latest pricing trends?

Comment: _____

Y N NA 6.00 ESTIMATE (Cont.)

6.04 ☒ ☐ ☐ Do the unit prices reflect the magnitude of the quantity of work vs. mobilization/set up costs?
 (e.g. 100 Tons of ITEM 460. on a bridge replacement project will cost significantly more than
 100,000 Tons on an Interstate resurfacing project)

Comment: _____

Y N NA 7.00 DETAIL SHEETS

7.01 ☒ ☐ ☐ Do the Earthwork quantities on the PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL
 SHEET (page 18-65) correspond with those noted on the Summary Quantity Sheet?

Comment: _____

7.02 ☒ ☐ ☐ Does the pavement structure on the PRELIMINARY ESTIMATE OF QUANTITIES -
 DETAIL SHEET correspond with the Typical Sections?

Comment: _____

7.03 ☒ ☐ ☐ Are all items not completely described and located on the plans adequately described?

Comment: _____

Y N NA 8.00 CALCULATION BOOK

8.01 ☐ ☒ ☐ Have drainage sketches and invert elevations been included in the Calculation Book?

Comment: Drainage sketches have not been included in the Calculation Book. The proposed drainage is
 very clear in the Construction Plans. Invert elevations have been included on the plans.

8.02 ☒ ☐ ☐ Have an index and page numbers been prepared for the Calculation Book?

Comment: _____

Y N NA 9.00 CONCLUSIONS

9.01 ☐ ☒ ☐ Have all the comments from the 75% review been satisfactorily addressed?

Comment: We have responded to all the comments from the 75% review. There are a few comments we
 did not agree with and explained our logic in the responses to comments. There are a few items
 that we could not answer in time for the 100% submission. As an example some comments
 asked that we get answers from other agencies, some of which may not have responded in time.
 We will update our "Responses to Comments" as answers come in.

9.02 ☒ ☐ ☐ Is the estimated total construction cost consistent with the TIP?

Comment: According to MPO Transportation Improvements for FFY 2012, the total program cost is
 programmed for \$14,591,678. The 100% estimated construction cost is \$13,660,200 excluding
 contingencies, inflation, construction engineering and utility costs. The 100% estimated
 construction cost could increase due to MBTA and BMLD force account work.

9.03 ☒ ☐ ☐ Has an independent constructability review been performed?

Comment: _____

9.04 ☒ ☐ ☐ Do the plans represent a project that is reasonable from a constructability standpoint with
 respect to construction techniques and available right of way?

Comment: _____

9.05 ☒ ☐ ☐ Does the estimate include all the items of work necessary to complete the project?

Comment: _____

9.06 ☒ ☐ ☐ Are the special provisions clear and unambiguous with well defined method of measurement
 and basis of payment?

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Comment: _____

- 9.07 ☒ ☐ ☐ Has the Design Submission Distribution Chart been reviewed and has the Project Manager been contacted to ensure that each submission includes the required documentation?

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Comment: _____

Designer Certification

Y

☒ X

The Designer certifies that the 100% Design Plans have been reviewed in accordance with this checklist and that all responses are correct and accurately reflect the information presented on the submitted Design Plans.



Charles A. Kalauskas, P.E.; Principal

Date: March 1, 2012