

Delaware Department of Transportation
QUESTIONS AND ANSWERS
T201206309.01
PAVEMENT & REHABILITATION, SOUTH II-IX, 2012
Thursday, October 24, 2013

Q #	Question	Answer
14	Is Portland cement to be added to all emulsion stabilized materials, items FDR 304508 & CIR 401636 or just one of the two?	Only to the two FDR 304508 locations; Location 2, River Road and Location 3, Cypress Road.

Tuesday, October 15, 2013

13	Does the Design need to be stamped by a PE?	No, however, the mix design must be submitted for approval as per the Supplemental Spec 304508 – Mix Design section.
12	Does the Design need to be done by an independent lab or can it be done by the contractor?	See answer 7.
11	What are the design criteria for “A ENGINEERED DESIGN EMULSION MIX” on this project?	See answer 7.
10	Could you explain or expand on what is required under “A ENGINEERED DESIGN EMULSION MIX”	See answer 7.

Q #	Question	Answer
9	<p>The DOT provided Cement Stabilized Reclamation specifications in this addendum but no locations as to where they will be used. Where does the DOT expect to use this item or was this added to demonstrate using cement in addition to emulsion? If so, the specs are now extremely unclear as they now call for Reclamation with a Reclaimer and just cement (a graded base), not Reclamation with the Recycle mill (paver laid base) with the addition of cement and emulsion. Please clarify. C9</p>	<p>The 304504/304506 supplemental spec is a combined spec with the focus being on the 304506 Portland cement portion for this project. The locations shall be completed in accordance to item 304508 of the supplemental specs.</p> <p>The Portland cement item 304506 was added to use in conjunction with the emulsion to help facilitate the curing process in wetter than normal conditions.</p>
8	<p>Can the DOT provide exact specifications to what is required for this “engineered emulsion?” That is a very vague term which currently is open to interpretation as no specifications have been provided. The cost of engineered emulsion can vary greatly depending on what is required.</p>	<p>See answer 7.</p>
7	<p>Can Deldot please provide clarification to the “Engineered Design Emulsion Mix” requirement that has been added in Addendum #3? Is this referring to a new material to replace CSS-1h? If so, can a specification be provided to show exactly what the material requirement is?</p>	<p>Stabilizing agents and additives will be selected to facilitate coating the soil/stone particles and binding them together in a stabilized layer in the presence of moisture. These additives may be combined with the emulsion into an ‘engineered formula’. The Contractor is responsible for the selection of agents and additives to produce a stabilized layer conforming to the requirements of the 304508 specification. The mix design will include a minimum of 0.5% Portland cement.</p>

Q #	Question	Answer
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Monday, September 16, 2013

6	<p>Item 304508 Bit Stabilized Full – Depth Reclamation</p> <p>Does the recycled material need to be placed by a paver or can its final grade and cross slope be established with a grader?</p>	<p>Reference Section 304508-Bituminous Stabilized Full Depth Reclamation, Equipment, last paragraph. As per the spec states a “self propelled asphalt paver” shall be utilized to spread the recycled mixture to the established grade and cross slope.</p>
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Friday, September 13, 2013

5	<p>For Item 304508- Bituminous Stabilized Full Depth Reclamation, the process and equipment required for pulverizing/mixing and material placement is unclear. Is the DOT asking for a Reclaimer(up cut mill with 8’ head) and graded base or a Recycle mill (down cut 11’ head) with a conveyer and a paver laid base?</p>	<p>Reference Section 304508-Bituminous Stabilized Full Depth Reclamation, Equipment, last paragraph. As per the spec states a “self propelled asphalt paver” shall be utilized to spread the recycled mixture to the established grade and cross slope.</p>
4	<p>Is Item 304508, Bituminous Stabilized Full-Depth Reclamation, considered a smoothness opportunity? Past experience has indicated that it is not a smoothness opportunity.</p>	<p>The Full Depth Reclamation operation as defined under Section 401580, Definitions: Smoothness Opportunity, is not considered as a smoothness opportunity. The final wearing surface is considered to be a smoothness opportunity.</p> <p>However, a certain level of smoothness is required to be achieved. Reference Section 304.04 Construction Methods, subparagraph (b) Surface of the Standard Specifications and Section 304508, Construction Methods, Surface Tolerance paragraph of the bid package.</p>
3	<p>Is Item 401636, Cold Recycled Bituminous Pavement, considered a smoothness opportunity? Past experience has indicated that it is not a smoothness opportunity.</p>	<p>Yes, as defined under Section 401580, Definitions: Smoothness Opportunity, “in-place recycling” is considered a smoothness opportunity. In addition, a certain level of smoothness is required to be achieved per Referenced Section 401636, Construction, Surface Tolerance paragraph of the bid package.</p>

Q #	Question	Answer
2	<p>Would The Department consider reducing the DBE goal on this project? At 7% we need around ½ million in DBE, there is not that much sub-work on the project and what little there is, with this high of a goal, you are excluding non-DBE subs from participating.</p> <p>If you feel you calculation of the DBE goal was done correctly can you share the calculation so we will know where to find the participation.</p>	<p>We have reviewed the goal calculation and it is valid. The approved goal setting methodology was utilized. Note that MOT items were NOT used as part of the goal calculation for this contract.</p> <p>We reviewed the estimate and have identified multiple areas besides MOT that can be subcontracted to currently certified DBE firms, such as striping, hauling, and seeding. The DelDOT DBE Program is always willing to assist with identifying ready, willing and able DBE firms to participate on your contract.</p> <p>Federal regulations (49 CFR Part 26) and the DelDOT DBE program provides a process for instances where a bidder is unable to demonstrate enough participation to meet the goal on a project. If the bidder cannot find enough participation, the bidder is to complete the Good Faith Effort paperwork and submit with their bid, and DelDOT will review to determine if the documented Good Faith Effort met the requirements.</p> <p>Please refer to page 12 of the project bid documents, Guidance for Good Faith Effort; and DelDOT’s Disadvantaged Business Enterprise (DBE) Program on our Website at: http://www.deldot.gov/information/business/dbe/index.shtml</p>
1	<p>Some of the locations are heavily shaded, in particular location #4 which is completely canopied by trees in sections. There are engineered emulsified asphalt products available that have been used successfully in conditions like this on previous jobs. These engineered emulsions perform better than standard emulsions in situations where direct sunlight is limited. Would The Department consider adding a line item for engineered emulsion? On my 1st question I meant to specify location 3 not location 4 being canopied by the trees.</p>	<p>Due to the heavy shading by the tree canopy and/or high water table, the bituminous stabilized full-depth reclamation operation will be revised to a cement stabilized full-depth reclamation for locations 2 and 3. Items changes will be addressed under addendum no. 2.</p>