

Delaware Department of Transportation

**QUESTIONS AND ANSWERS**

**T201406201.01**

**HIGH PERFORMANCE THIN OVERLAY, KENT, 2014, KENT COUNTY**

**Tuesday, April 21, 2015**

Q #	Question	Answer
20	Is it the intent to only penalize the Contractor under 401759? Page #61 (item 401759) indicates that no bonus applies. Other portions of the 401759-Special Provision read as if 401699-QA/QC apply as normal. Please clarify.	See Answer 8.
19	For item 401759 a 64-22 tack at 0.10 GL/SY is required. This liquid "tracks" everywhere and the application rate is heavy. Preventing 100% of the tracking cannot be done based on the means methods described in 401759. Under the Basis of Payment: ".....removing material from around manholes, drainage inlets, valves, and similar features; for removing and replacing excess asphalt cement....." is written. Can the Department further explain the extent of removal and also removing/replacing excess asphalt cement?	See Answer 13.
18	What asphalt binder (specifically) is required for item #401759? Table 5 on page #57 has various binders listed and it is not clear.	See Answer 7.
17	Regarding Item 401759 – High Performance Thin Overlay: Is there any bonus potential in the material and/or compaction?	See Answer 8.
16	Regarding Item 401759 – High Performance Thin Overlay: What asphalt grade is required?	See Answer 7.

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15	Regarding Item 401759 – High Performance Thin Overlay: Are the aggregates carbonate or non-carbonate?	<p>401759 requires under the aggregates section that “If the Roadway has an ADT greater than 8000 ADT and a posted speed limit greater than 35 MPH, all aggregates shall be non-carbonate”</p> <p>From the 2013 Delaware Vehicle Volume Summary:</p> <p>Location 1: Main Street (K27) ADT = 8,872 Posted Speed Limit = 25 mph</p> <p>Location 2: Bay Road (K7) ADT = 20,765 Posted Speed Limit = 45 mph</p>
14	The detail on page 13 of 20 in the plans specifies the High Performance Thin Overlay to be 2” thick. Question #4 states the High Performance Thin Overlay is 1.5”. Which is correct?	The depth of the HPTO is 1.5”
13	For item 401759 under basis of payment in the special provisions it specifies payment includes “removing and replacing excess asphalt cement”. Can you clarify what this statement means? Is the intent to hold the contractor responsible for what happens when your specification requires the use of “neat asphalt PG 64-22/28” as tack coat and the trucks delivering material to the paver track it all over?	This wording is to ensure that the specified application of tack coat for the HPTO is used and that caution and preventative measures are taken to minimize tracking and pooling of material on manholes, inlets, valves and similar features, milled surfaces, and outside of the work zone.
12	For item 401759 under basis of payment in the special provisions it specifies there will be “no bonus payment” but material...will be subject to remove and replace or prorated payment...in 401699. Special provision 401699 specifies bonus and penalty. How can The Department take away the bonus portion of special provision 401699 but keep the penalty part?	See Answer #8.
11	For item 401759 which of the 4 asphalt binders listed in table 5 of the special provisions does The Department want for this project?	See Answer #7.
10	Since the tack coat is incidental to the HPTO item, on what square yardage do we base the bid quantity? (The milling square yardage at 4” depth is significantly greater than the HPTO, SY quantity @ 1.5”)	Tack coat for the HPTO is to be applied at a rate of $0.10 \pm 0.04$ gallons per square yard. Tack coat is also to be placed on vertical longitudinal joints. The entire surface area is to be tacked prior to placement of the HPTO.

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9	What is meant by the term “remove and replace asphalt”?	See Question 13.
8	There is no bonus payment adjustment for compaction and there is no bonus payment adjustment material production but there will be a penalty adjustment assessed for material production and construction compaction?	There is no incentive on the HPTO item due to the fact that this is the first time the product is being used in Delaware. Other bituminous concrete items have the incentive / disincentive shown in 401699 per contract plans and specifications.
7	What is the binder type?	<p>The binder grade that is required for the HPTO is a custom blend that meets the requirements listed in Table 5. Binder grade names were given in both PG and MSCR terminology.</p> <p>PG76-22 is the same as PG64E-22  PG 76-28 is the same as PG64E-28</p> <p>The selected binder must meet BBR results listed in the table and the AASHTO T350 @ 64C equation results. Based on our research this material can be produced by several typical liquid binder suppliers in the region.</p>

**Monday, April 13, 2015**

6	What are the limits for each of the locations?	Location 1 will only be the entire Main St and Walnut St Intersection (Magnolia); Location 2 will be the entire Bay Rd and SR10 Intersection (including SR1 exit ramp, approx. 350 lf; Plan sheet 2&3).
5	Can the High Performance Thin Overlay be performed with conventional paving equipment, or will a “spray paver” be required?	The High Performance Thin Overlay can be performed with conventional paving equipment, a spray paver will not be required at either location.
4	Is this a multi-lift asphalt paving job? What is the depth of Type B paving? What is the depth of the High Performance Thin Overlay?	This is a multi-lift paving job for each location; the Type B paving depth is 2.5” and the depth for the High Performance Thin Overlay is 1.5”.
3	What is the depth of the profile milling hot mix item for each location?	The depth of profile milling for each location is 4”.
2	What is the anticipated PCC Patching depth?	The anticipated depth of PCC patching is 8” (full depth).

Q #	Question	Answer
1	What do each of the existing pavement sections consist of, asphalt, or asphalt over concrete? Also, what are the depths of each layer of the existing pavement sections?	Both locations consist of asphalt over concrete, also the average depth of asphalt is 4" and the average depth of concrete is 8"