| CIDCECTION | 101.02 Abbassisting |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SUBSECTION: REVISION: | 101.02 Abbreviations. Insert the following abbreviation and text into the section: |
| REVISION. | most the following approviation and text into the section. |
| | KEPSC Kentucky Erosion Prevention and Sediment Control |
| SUBSECTION: | 101.03 Definitions. |
| REVISION: | Replace the definition for Specifications – Special Provisions with the following: |
| | Additions and ravisions to the Standard and Supplemental Specifications covering conditions recovling to |
| | Additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to and individual project. |
| | and marriage projects |
| SUBSECTION: | 102.03 Contents of the Bid Proposal Form. |
| REVISION: | Replace the first sentence of the first paragraph with the following: |
| | The Bid Proposal form will be available on the Department internet website (http://transportation.ky.gov/contract/). |
| | (http://ttalisportation.ky.gov/contract/). |
| | Delete the second paragraph. |
| | Delete the least represent |
| | Delete the last paragraph. |
| SUBSECTION: | 102.04 Issuance of Bid Proposal Form. |
| REVISION: | Replace Heading with the following: |
| | 102 04 Piddon Pagistration |
| | 102.04 Bidder Registration. |
| | Replace the first sentence of the first paragraph with the following: |
| | The Department reserves the right to disqualify or refuse to place a bidder on the eligible bidder's list for a project for any of the following reasons: |
| | |
| | Replace the last sentence of the subsection with the following: |
| | The Department will resume placing the bidder on the eligible bidder's list for projects after the bidder improves his operations to the satisfaction of the State Highway Engineer. |
| SUBSECTION: | 102.06 Examination of Plans, Specifications, Special Provisions, Special Notes, and Site of Work. |
| REVISION: | Replace the first paragraph with the following: |
| | Examine the site of the proposed work, the Bid Proposal, Plans, specifications, contract forms, and |
| | bulletins and addendums posted to the Department's website and the Bid Express Bidding Service |
| | Website before submitting the Bid Proposal. The Department considers the submission of a Bid |
| | Proposal prima facie evidence that the bidder has made such examination and is satisfied as to the |
| | conditions to be encountered in performing the work and as to the requirements of the Contract. |
| | |
| SUBSECTION: | 102.07.01 General. |
| REVISION: | Replace the first sentence with the following: |
| | Submit the Bid Proposal on forms furnished on the Bid Express Bidding Service website |
| | (www.bidx.com). |
| | Replace the first sentence of the third paragraph with the following: |
| | replace the first sentence of the tillite paragraph with the following. |
| | Bid proposals submitted shall use an eligible Digital ID issued by Bid Express. |
| | |

| SUBSECTION: REVISION: | 102.07.02 Computer Bidding. Replace the first paragraph with the following: |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Subsequent to registering for a specific project, use the Department's Expedite Bidding Program on the internet website of the Department of Highways, Division of Construction Procurement (http://transportation.ky.gov/contract/). Download the bid file from the Bid Express Bidding Service Website to prepare a Bid Proposal for submission to the Department. Submit Bid Proposal electronically through Bid Express Bidding Service. |
| | Delete the second and third paragraph. |
| SUBSECTION: REVISION: | 102.08 Irregular Bid Proposals. Delete the following from the first paragraph: 4) fails to submit a disk created from the Highway Bid Program. |
| | Replace the second paragraph with the following: The Department will consider Bid Proposals irregular and may reject them for the following reasons: |
| | when there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the Bid Proposal incomplete, indefinite, or ambiguous as to its meaning; or when the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a Contract pursuant to an award; or any failure to comply with the provisions of Subsection 102.07; or Bid Proposals in which the Department determines that the prices are unbalanced; or when the sum of the total amount of the Bid Proposal under consideration exceeds the bidder's Current Capacity Rating. |
| SUBSECTION: REVISION: | 102.09 Bid Proposal Guaranty. Insert the following after the first sentence: |
| | Bid Proposals must have a bid proposal guaranty in the amount indicated in the bid proposal form accompany the submittal. A guaranty in the form of a paper bid bond, cashier's check, or certified check in an amount no less than the amount indicated on the submitted electronic bid is required when the electronic bid bond was not utilized with the Bid Express Bidding Service. Paper bid bonds must be delivered to the Division of Construction Procurement prior to the time of the letting. |
| SUBSECTION: REVISION: | 102.10 Delivery of Bid Proposals. Replace paragraph with the following: |
| | Submit all Bid Proposals prior to the time specified in the Notice to Contractors. All bids shall be submitted electronically using Bid Express Bidding Services. Electronically submitted bids must be done in accordance with the requirements of the Bid Express Bidding Service. |
| SUBSECTION: REVISION: | 102.11 Withdrawal or Revision of Bid Proposals. Replace the paragraph with the following: |
| | Bid Proposals can be withdrawn in accordance the requirements of the Bid Express Bidding Service prior to the time of the Letting. |
| SUBSECTION: REVISION: | 102.13 Public Opening of Bid Proposals. Replace Heading with the following: 102.13 Public Announcement of Bid Proposals. |
| | Replace the paragraph with the following: The Department will publicly announce all Bid Proposals at the time indicated in the Notice to Contractors. |

| SUBSECTION: REVISION: | 103.02 Award of Contract. Replace the first sentence of the third paragraph with the following: |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | The Department will normally award the Contract within 10 working days after the date of receiving Bid Proposals unless the Department deems it best to hold the Bid Proposals of any or all bidders for a period not to exceed 60 calendar days for final disposition of award. |
| SUBSECTION: REVISION: | 105.03 Record Plans. Replace the section with the following: |
| | Record Plans are those reproductions of the original Plans on which the accepted Bid Proposal was based and, and signed by a duly authorized representative of the Department. The Department will make these plans available for inspection in the Central Office at least 24 hours prior to the time of opening bids and up to the time of letting of a project or projects. The quantities appearing on the Record Plans are the same as those on which Bid Proposals are received. The Department will use these Record Plans as the controlling plans in the prosecution of the Contract. The Department will not make any changes on Record Plans subsequent to their issue unless done so by an approved contract modification. The Department will make 2 sets of Record Plans for each project, and will maintain one on file in the Central Office and one of file in the District Office. The Department will furnish the Contractor with the following: 1 full size, 2 half size and an electronic file copy of the Record Plans at the Pre-Construction conference. |
| SUBSECTION: REVISION: | 105.12 Final Inspection and Acceptance of Work. Insert the following paragraphs after the first paragraph: |
| | Notify the Engineer when all electrical items are complete. A notice of the electrical work completion shall be made in writing to the Contractor. Electrical items will be inspected when the electrical work is complete and are not subject to waiting until the project as a whole has been completed. The Engineer will notify the Division of Traffic Operations within 3 days that all electrical items are complete and ready for a final inspection. A final inspection will be completed within 90 days after the Engineer notifies the Division of Traffic Operations of the electrical work completion. Energize all electrical items prior to notifying the Engineer that all electrical items are complete. Electrical items must remain operational until the Division of Traffic Operations has inspected and accepted the electrical portion of the project. Payment for the electrical service is the responsibility of the Contractor from the time the electrical items are energized until the Division of Traffic Operations has accepted the work. Complete all corrective work within 90 calendar days of receiving the original electrical inspection report. Notify the Engineer when all corrective work is complete. The Engineer will notify the Division of Traffic Operations that the corrective work has been completed and the project is ready for a follow-up inspection. Upon re-inspection, if additional corrective work is required, complete within the same 90 calendar day allowance. The Department will not include time between completion of the corrective work and the follow-up electrical inspections; The 90 calendar day allowance is cumulative regardless of the number of follow-up electrical inspections required. The Department will assume responsibility for the electrical service on a project once the Division of Traffic Operations gives final acceptance of the electrical items on the project. The Department will also assume routine maintenance of those items. Any damage done to accepted electrical work items by other Contractors shall be t |

| voids the Contractor's right to delay claims. Insert the following paragraph after paragraph six: | | |
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| narrative in accordance with Subsection 108.02, the Cabinet will not consider the claim for delay. Delete the last paragraph from the section. SUBSECTION: Insert the following sentence before the first sentence of the first paragraph: All field welding must be performed by a certified welder unless otherwise noted. SUBSECTION: Insert the following prior to the first paragraph: Specification 108.02 applies to all Cabinet projects except the following project types: REVISION: REVISION: Specification 108.02 applies to all Cabinet projects except the following project types: REVISION: REVISION: REVISION: REVISION: Specification 108.02 applies to all Cabinet projects except the following project types: Right of Way Mowing and/or Litter Removal Waterborne Paint Striping Projects that contain Special Provision 82 Projects that contain the Special Note for CPM Scheduling Insert the following paragraph after paragraph two: Working without the submittal of a Written Narrative is violation of this specification and additionally voids the Contractor's right to delay claims. Insert the following paragraph after paragraph six: The submittal of bar chart or Critical Path Method schedule does not relieve the Contractor's requirement to submit a Written Narrative schedule. Insert the following at the beginning of the first paragraph of A) Written Narrative.: Submit the Written Narrative Schedule using form TC 63-50 available at the Division of Construction's website (http://www.transportation.ky.gov/construction/ResCenter/ResCenter.htm). Replace Part A) Written Narrative 1. And 2. with the following: 1. Provide a description that includes how the Contractor will sequence and stage the work, how the Contractor and crew sizes are planned to execute the work. 2. Provide a list of project milestones including, if applicable, winter shut-downs, holidays, or special events. The Contractor shall describe how these milestones and other dates effect the prosecution of the work. Also, include start date and co | | |
| SUBSECTION: REVISION: 106.10 Field Welder Certification Requirements. Insert the following sentence before the first sentence of the first paragraph: All field welding must be performed by a certified welder unless otherwise noted. SUBSECTION: REVISION: 108.02 Progress Schedule. Insert the following prior to the first paragraph: Specification 108.02 applies to all Cabinet projects except the following project types: REVISION: REVISION: Specification 108.02 applies to all Cabinet projects except the following project types: Right of Way Mowing and/or Litter Removal Projects that contain Special Provision 82 Projects that contain Special Provision 82 Projects that contain the Special Note for CPM Scheduling Insert the following paragraph after paragraph two: Working without the submittal of a Written Narrative is violation of this specification and additionally voids the Contractor's right to delay claims. Insert the following paragraph after paragraph six: The submittal of bar chart or Critical Path Method schedule does not relieve the Contractor's requirement to submit a Written Narrative schedule. Insert the following at the beginning of the first paragraph of A) Written Narrative:: Submit the Written Narrative Schedule using form TC 63-50 available at the Division of Construction's website (http://www.transportation.ky.gov/construction/ResCenter/ResCenter.htm). Replace Part A) Written Narrative 1. And 2. with the following: 1. Provide a description that includes how the Contractor will sequence and stage the work, how the Contractor plans to maintain and control traffic being specific and detailed, and what equipment and crew sizes are planned to execute the work. 2. Provide a list of project milestones including, if applicable, winter shut-downs, holidays, or special events. The Contractor shall describe how these milestones and other dates effect the prosecution of the work. Also, include start date and completion date milestones for the | | |
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| SUBSECTION: | 110.01 Mobilization. |
| REVISION: | Replace paragraph three with the following: |
| | Do not bid an amount for Mobilization that exceeds 5 percent of the sum of the total amounts bid for all items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. The Department will automatically adjust any Bid Proposals that are in excess of this amount down to 5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for Mobilization is less than 5 percent, or the Department will award the Contract for the adjusted bid amount of 5 percent when the amount bid for Mobilization is greater than 5 percent. If any errors in unit bid prices for other Contract items in a Contractor's Bid Proposal are discovered after bid opening and such errors reduce the total amount bid for all other items, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives, so that the percent bid for Mobilization is larger than 5 percent, the Department will adjust the amount bid for Mobilization to 5 percent of the sum of the corrected total bid amounts. |
| SUBSECTION: REVISION: | 110.02 Demobilization. Replace the third paragraph with the following: |
| | Bid an amount for Demobilization that is a minimum of \$1,000 or 1.5 percent of the sum of the total amounts bid for all other items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. The Department will automatically adjust any Bid Proposal that is less than this amount up to \$1,000 or 1.5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for demobilization exceeds 1.5 percent, or the Department will award the Contract for the adjusted bid amount when the amount bid for demobilization is less than the minimum of \$1,000 or less than 1.5 percent of the sum of the total amounts bid for all other items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. |
| SUBSECTION: | 110.04 Payment. |
| REVISION: | Insert the following paragraph following the demobilization payment schedule (4 th paragraph): |
| | The Department will withhold an amount equal to \$1,000 for demobilization, regardless of the schedule listed above. The \$1,000 withheld for demobilization will be paid when the final estimate is paid. |
| SUBSECTION: | 112.03.01 General Traffic Control. Replace paragraph three with the following: |
| REVISION: | Replace paragraph three with the following: |
| | All flaggers shall be trained in current MUTCD flagging procedures. Proof of training must be available for review at the Department's request. Flagging credentials must be current within the last 5 years. |
| SUBSECTION: | 112.03.11 Temporary Pavement Markings. |
| PART: | B) Placement and Removal of Temporary Striping. |
| REVISION: | Replace the 2 nd sentence of the first paragraph with the following: |
| | On interstates and parkways, and other roadways approved by the State Highway Engineer, install pavement striping that is 6 inches in width. |
| SUBSECTION: REVISION: | 112.03.12 Project Traffic Coordinator (PTC). Add the following at the end of the subsection: |
| | After October 1, 2008 the Department will require the PTC to have successfully completed the applicable qualification courses. Personnel that have not successfully completed the applicable courses by that date will not be considered qualified. Prior to October 1, 2008, conform to Subsection 108.06 A) and ensure the designated PTC has sufficient skill and experience to properly perform the task. |

Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

(Effective with the July 30, 2010 Letting)

SUBSECTION: REVISION:

112.03.15 Non-Compliance of Maintain and Control of Traffic.

Add the following section:

112.03.15 Non-Compliance of Maintain and Control of Traffic. It is the Contractor's responsibility to conform to the traffic control requirements in the TCP, Proposal, plan sheets, specifications, and the Manual on Uniform Traffic Control Devices.

Unless specified elsewhere in the contract, a penalty will be assessed in the event of non-compliance with Maintain and Control of Traffic requirements. These penalties will be assessed when the Contractor fails to correct a situation or condition of non-compliance with the contract traffic control requirements after being notified by the Engineer. The calculation of accrued penalties for non-compliance will be based upon the date/time of notification by the Engineer.

The amount of the penalty assessed for non-compliance will be determined based upon the work zone duration, as defined by the MUTCD, and will be the greatest of the different calculation methods indicated below:

A) Long-term stationary work that occupies a location more than 3 days.

Correct the non-compliant issue within 24 hours from initial notification by the Engineer. If the issue is not corrected within 24 hours from the initial notification, a penalty for non-compliance will be assessed on a daily basis beginning from the initial notification of non-compliance. The Contractor will be assessed a \$1,000 daily penalty or the amount equal to the contract liquidated damages in Section 108.09, whichever of the 2 is greater. The penalty for non-compliance will escalate as follows for continued non-compliance after the initial notification.

3 Days after Notification

\$1,500 daily penalty or 1.5 times the contract liquidated damages daily charge rate in Section 108.09, whichever is greater.

7 Days after Notification

\$2,000 daily penalty or double the contract liquidated damages daily charge rate in Section 108.09, whichever is greater.

B) Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than 1 hour.

Correct the non-compliant issue within 4 hours from initial notification by the Engineer. If the issue is not corrected within 4 hours from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.

C) Short-term stationary is daytime work that occupies a location for more than 1 hour within a single daylight period.

Correct the non-compliant issue within 1 hour from initial notification by the Engineer. If the issue is not corrected within 1 hour from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.

If the Contractor remains in violation of the Maintain and Control of Traffic requirements, or if the Department determines it to be in the public's interest, work will be suspended in accordance with Section 108.08 until the deficiencies are corrected. The Department reserves the right to correct deficiencies by any means available and charge the Contractor for labor, equipment, and material costs incurred in emergency situations.

| SUBSECTION: REVISION: | 206.03.02 Embankment Replace the last paragraph with the following: |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | When rock roadbed is specified, construct the upper 2 feet of the embankment according to Subsection 204.03.09 A). |
| SUBSECTION: | 213.03.03 Inspection and Maintenance. |
| REVISION: | Insert the following paragraph after the second paragraph: |
| | When the Contractor is required to obtain the KPDES permit, it is their responsibility to ensure compliance with the inspection and maintenance requirements of the permit. The Engineer will perform verification inspections a minimum of once per month and within 7 days of a ½ inch or greater rainfall event. The Engineer will document these inspections using Form TC 63-61 A. The Engineer will provide copies of the inspection only when improvements to the BMP's are required. Verification inspections performed by the Engineer do not relieve the Contractor of any responsibility for compliance with the KPDES permit. Initiate corrective action within 24 hours of any noted deficiency and complete the work within 5 days. |
| SUBSECTION: | 213.03.05 Temporary Control Measures. |
| PART: REVISION: | E) Temporary Seeding and Protection. Replace the first paragraph with the following: |
| | Apply an Annual Rye seed mix at a rate of 100 pounds per acre during the months of March through August. In addition to the Annual Rye, add 10 pounds of German Foxtail-Millet (Setaria italica), when performing temporary seeding during the months of June through August. During the months of September through February, apply Winter Wheat or Rye Grain at a rate of 100 pounds per acre. Obtain the Engineer's approval prior to the application of the seed mixture. |
| SUBSECTION: | 213.03.05 Temporary Control Measures. |
| PART: REVISION: | F) Temporary Mulch. Replace the last sentence with the following: |
| REVISION: | Replace the last sentence with the following. |
| | Place temporary mulch to an approximate 2-inch loose depth (2 tons per acre) and anchor it into the soil by mechanically crimping it into the soil surface or applying tackifier to provide a protective cover. Regardless of the anchoring method used, ensure the protective cover holds until disturbance is required or permanent controls are in installed. |
| SUBSECTION: | 303.05 Payment. |
| REVISION: | Replace the second paragraph of the section with the following: |
| | The Department will make payment for Drainage Blanket-Type II (ATDB) according to the Lot Pay Adjustment Schedule for Specialty Mixtures in Section 402. |
| SUBSECTION: | 401.02.04 Special Requirements for Dryer Drum Plants. |
| PART: | F) Production Quality Control. |
| REVISION: | Replace the first sentence with the following: |
| | Stop mixing operations immediately if, at any time, a failure of the automatic electronic weighing system of the aggregate feed, asphalt binder feed, or water injection system control occurs. |

| SUBSECTION: REVISION: | Add the following: | ents for Dryer Drum Pl | ants. | | | | |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--|--|--|
| | Part G) Water Injection System. Provided each system has prior approval as specified in Subsection 402.01.01, the Department will allow the use of water injection systems for purposes of foaming the asphalt binder and lowering the mixture temperature for production of Warm Mix Asphalt (WMA). Ensure the equipment for water injection meets the following requirements: 1) Injection equipment computer controls are automatically coupled to the plants controls (manual operation is not permitted); 2) Injection equipment has variable controls that introduce water ratios based on production rates of mixtures; 3) Injects water into the flow of asphalt binder prior to contacting the aggregate; 4) Provides alarms on the water injection system that operate when the flow of water is interrupted or deviates from the prescribed water rate. | | | | | | |
| SUBSECTION: | 401.03.01 Preparation of Mix | xtures. | | | | | |
| REVISION: | Replace the last sentence of t | | ith the following: | | | | |
| | Do not use asphalt binder wh | | _ | | | | |
| | 101.00.01.7 | | | | | | |
| SUBSECTION: REVISION: | 401.03.01 Preparation of Mixtures.Replace the third paragraph and Mixing and Laying Temperature table with the following:Maintain the temperature of the component materials and asphalt mixture within the ranges listed in the following table: | | | | | | |
| | MIXING AND LAYING TEMPERATURES (°F) | | | | | | |
| | | MIXING AND LAYING | TEMPERATURES | (°F) | | | |
| | Material | MIXING AND LAYING | TEMPERATURES Minimum | (°F) Maximum | | | |
| | | MIXING AND LAYING | Minimum | Maximum | | | |
| | Material Aggregates Aggregates used with Recycle (RAP) | | | | | | |
| | Aggregates Aggregates used with Recyc | cled Asphalt Pavement PG 64-22 | Minimum 240 240 240 230 | 330 — 330 | | | |
| | Aggregates Aggregates used with Recyc (RAP) Asphalt Binders | PG 64-22 PG 76-22 | 240 240 230 285 | 330 — 330 330 350 | | | |
| | Aggregates Aggregates used with Recyc (RAP) Asphalt Binders Asphalt Mixtures at Plant | PG 64-22 PG 76-22 PG 64-22 HMA | Minimum 240 240 240 230 285 250 | 330 — 330 350 330 | | | |
| | Aggregates Aggregates used with Recyc (RAP) Asphalt Binders | PG 64-22 PG 76-22 PG 64-22 HMA PG 76-22 HMA | 240 240 240 230 285 250 310 | 330 — 330 350 350 350 350 | | | |
| | Aggregates Aggregates used with Recyc (RAP) Asphalt Binders Asphalt Mixtures at Plant | PG 64-22 PG 76-22 PG 64-22 HMA | Minimum 240 240 240 230 285 250 | 330 — 330 350 330 | | | |
| | Aggregates Aggregates used with Recyc (RAP) Asphalt Binders Asphalt Mixtures at Plant | PG 64-22 PG 76-22 PG 64-22 HMA PG 76-22 HMA PG 64-22 WMA | 240 240 240 230 285 250 310 230 | 330 330 350 350 350 275 | | | |
| | Aggregates Aggregates used with Recyc (RAP) Asphalt Binders Asphalt Mixtures at Plant (Measured in Truck) | PG 64-22 PG 76-22 PG 64-22 HMA PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA | 240 240 230 285 250 310 230 250 | 330 330 350 350 330 350 275 300 | | | |
| | Aggregates Aggregates used with Recyc (RAP) Asphalt Binders Asphalt Mixtures at Plant (Measured in Truck) Asphalt Mixtures at Project | PG 64-22 PG 76-22 PG 76-22 PG 64-22 HMA PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 64-22 HMA PG 76-22 HMA PG 76-22 HMA PG 64-22 HMA | Minimum 240 240 230 285 250 310 230 250 230 300 210 | Maximum 330 — 330 350 350 330 350 275 300 330 350 275 | | | |
| | Aggregates Aggregates used with Recyc (RAP) Asphalt Binders Asphalt Mixtures at Plant (Measured in Truck) Asphalt Mixtures at Project (Measured in Truck | PG 64-22 PG 76-22 PG 76-22 PG 64-22 HMA PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 64-22 HMA PG 76-22 HMA | Minimum 240 240 230 285 250 310 230 250 230 300 | Maximum 330 — 330 350 350 330 350 275 300 330 350 350 | | | |
| SUBSECTION: REVISION: | Aggregates Aggregates used with Recyc (RAP) Asphalt Binders Asphalt Mixtures at Plant (Measured in Truck) Asphalt Mixtures at Project (Measured in Truck | PG 64-22 PG 76-22 PG 76-22 PG 64-22 HMA PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 64-22 HMA PG 76-22 HMA PG 64-22 HMA PG 76-22 WMA | Minimum 240 240 230 285 250 310 230 250 230 300 210 | Maximum 330 — 330 350 350 330 350 275 300 330 350 275 | | | |

| SUBSECTION: Add the following subsection: 402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval. The Department will evaluate trial production of WMA by use of a water injection system provided the system is installed according to the manufacturer's requirements and satisfies the requirements of Section 401. Evaluation will include production and placement of WMA to demonstrate adequate mixture quality including volumetric properties and density by Option A as specified in Subsection 402.03.02 D). Do not place WMA for evaluation on Department will approve WMA production on Department projects using the water injection system as installed on the specific asphalt mixing plant evaluated. SUBSECTION: REVISION: REV | | | | | | | | |
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| 402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval. The Department will evaluate trial production of WMA by use of a water injection system provided the system is installed according to the manufacturer's requirements and satisfies the requirements of Section 401. Evaluation will include production and placement of WMA to demonstrate adequate mixture quality including volumetric properties and density by Option A as specified in Subsection 402.03.02 D. Do not place WMA for evaluation on Department projects. Provided production and placement operations satisfy the applicable quality levels, the Department will approve WMA production on Department projects using the water injection system as installed on the specific asphalt mixing plant evaluated. SUBSECTION: REVISION: 402.05.02 Asphalt Mixtures and Mixtures With RAP. Replace Subsection Title as below: 402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Replace the paragraph with the following: The Department will pay for the mixture at the Contract unit bid price and apply a Lot Pay Adjustment for each lot placed based on the degree of compliance with the specified tolerances. Using the appropriate Lot Pay Adjustment Schedule, the Department will assign a pay value for a given property for each lot. The Department will apply the Lot Pay Adjustment to a defined unit price of \$50.00 per ton. The Department will apply the Lot Pay Adjustment tor each lot to a defined unit price of \$50.00 per ton. The Department will adulate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00. SUBSECTION: PART: REVISION: 402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. C) Conventional and RAP Mixtures Placed on Shoulders. SUBSECTION: PART: TABLES: REPART: TABLES: REVISION: 10. Part Part | | | | | | | | |
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| Section 401. Evaluation will include production and placement of WMA to demonstrate adequate mixture quality including volumetric properties and density by Option A as specific in Subsection 402.03.02 D). Do not place WMA for evaluation on Department projects. Provided production and placement operations satisfy the applicable quality levels, the Department will approve WMA production on Department projects using the water injection system as installed on the specific asphalt mixing plant evaluated. SUBSECTION: REVISION: 402.05.02 Asphalt Mixtures and Mixtures With RAP. Replace Subsection Title as below: 402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. REVISION: REVISION: The Department will pay for the mixture at the Contract unit bid price and apply a Lot Pay Adjustment for each lot placed based on the degree of compliance with the specified tolerances. Using the appropriate Lot Pay Adjustment Schedule, the Department will assign a pay value for the appropriate Lot Pay Adjustment Schedule, the Department will assign a pay value for a given property for each lot. The Department will acludate the Lot Pay Adjustment for each lot to a defined unit price of \$50.00 per ton. The Department will calculate the Lot Pay Adjustment or each lot to a defined unit price of \$50.00 per ton. The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00. SUBSECTION: PART: C) Conventional and RAP Mixtures Placed on Shoulders. REVISION: HMA, WMA, and RAP Mixtures, HMA and WMA, Including Mixtures With RAP. C) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge. Replace the title with the following: HMA, WMA, and RAP Mixtures, HMA and WMA, Including Mixtures With RAP. D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge. Replace the title with the following: From Minimum 1.00 ≥ min. VMA D) ≥ min. VMA Pay Value Powintion From Minimu | | | | | | | | |
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| SUBSECTION: 40 | 02.05.02 Asphal: | t Mixtures. HM | IA and WMA, Incl | uding M | lixtures W | ith RAP. | | |
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| | | 2 | < 3.0 | ions) | 1V initial | N _{design} | 75 | |
| | | 3 | 3.0 to < 30 | 0 | 7 | 75 | 115 | |
| | | 4 | ≥ 30.0 | | 8 | 100 | 160 | |
| | L | l. | _ | | • | • | • | • |
| | | | g, and Scratch Cou | rse. | | | | |
| |) Leveling and V | | first name and the section | h tha fall | lowina: | | | |
| REVISION: Re | epiace the first s | emence of the | first paragraph wit | n me foll | iowing: | | | |
| Co | onform to the gr | adation require | ments (control poi | nts) of A | ASHTO I | M 323 for | base, bi | nder, or surface |
| | the Engineer di | | , P | , | | | , | , |
| arm ar ar- | | | | | | | | |
| | | | g, and Scratch Cou | rse. | | | | |
| |) Scratch Course | | ha firet naraaranh | with the | following | | | |
| DEVICION. D. | Replace the second sentence of the first paragraph with the following: | | | | | | | |
| REVISION: Re | 1 | | | | Č | | | |
| | | adation require | ments (control poi | | | | base, bi | nder, or surface |

| SUBSECTION: | 407.01 DESCRIPTION. |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REVISION: | Replace the first sentence of the paragraph with the following: |
| | Construct a pavement wedge composed of a hot-mixed or warm-mixed asphalt mixture. |
| SUBSECTION: | 409.01 DESCRIPTION. |
| REVISION: | Replace the first sentence of the paragraph with the following: |
| | Use reclaimed asphalt pavement (RAP) from Department projects or other approved sources in hot mix asphalt (HMA) or warm mix asphalt (WMA) provided mixture requirements are satisfied. |
| SUBSECTION: | 410.01 DESCRIPTION. |
| REVISION: | Delete the second sentence of the paragraph. |
| SUBSECTION: | 410.03.01 Corrective Work. |
| REVISION: | Replace the last sentence of the paragraph with the following: |
| | Provide a final surface comparable to the adjacent pavement that does not require corrective work in |
| | respect to texture, appearance, and skid resistance. |
| | respect to texture, appearance, and skid resistance. |
| SUBSECTION: | 410.03.02 Ride Quality. |
| PART: | B) Requirements. |
| NUMBER: | 1) Category A. |
| REVISION: | Replace the last sentence of the first paragraph with the following: |
| | |
| | At the Department's discretion, a pay deduction of \$1200 per 0.1-lane-mile section may be applied in |
| | lieu of corrective work. |
| | |
| SUBSECTION: | 410.03.02 Ride Quality. |
| PART: | B) Requirements. |
| NUMBER: | 2) Category B. |
| REVISION: | Replace the second and third sentence of the first paragraph with the following: |
| | When the IDL is another than 00 for a 0.1 mile coation, neuforms connective work on remove and realize |
| | When the IRI is greater than 90 for a 0.1-mile section, perform corrective work, or remove and replace the pavement to achieve the specified IRI. At the Department's discretion, a pay deduction of \$750 per |
| | 0.1-lane-mile section may be applied in lieu of corrective work. |
| | o.1 Tane time section may be applied in new of corrective work. |
| SUBSECTION: | 410.05 PAYMENT. |
| REVISION: | Add the following sentence to the end of the first paragraph: |
| | 6 |
| | The sum of the pay value adjustments for ride quality shall not exceed \$0 for the project as a whole. |
| | |
| SUBSECTION: | 413.05.02 CL3 SMA BASE 1.00D PG76-22. |
| REVISION: | Insert the following sentence between the first and second sentence of the first paragraph: |
| | The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives |
| | but will not allow the overall pay value for a lot to exceed 1.00. |
| | out will not allow the overall pay value for a for to exceed 1.00. |
| L | |

| SUBSECTION: | 413.05.02 CL3.SN | MA BASE 1 00D I | PG 76-22 | | | |
|--------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------|
| TABLE: | 413.05.02 CL3 SMA BASE 1.00D PG 76-22. JOINT DENSITY TABLE | | | | | |
| REVISION: | | | | | | |
| | | | LAN | E DENSITY | | |
| | | Pa | ay Value | Test Res | ult (%) | |
| | | | 1.05 | 95.0- | 96.5 | |
| | | | 1.00 | 93.0- | 94.9 | |
| | | | 0.95 | 92.0-92.9 or | 96.6-97.0 | |
| | | | 0.90 | 91.0-91.9 or | 97.1-97.5 | |
| | | | (1) | < 91.0 or | c > 97.5 | |
| | | | | | | |
| SUBSECTION: | 413.05.03 CL3 SM | IA SURF 0.50A P | G76-22 and | l CL3 SMA SU | JRF 0.38A PG76-22. | |
| REVISION: | Insert the following | g sentence betwee | n the first a | nd second sent | ence of the first parag | graph: |
| | The Department w | ill calculate the La | ot Pav Adiu | stment using a | ll possible incentives | and disincentives |
| | but will not allow t | | | | | and dismeentives |
| CLIDGECTION | 412.05.02.CL 2.CN | A CUDE O SOA D | 0776 00 | LCI 2 CMA CI | JRF 0.38A PG76-22. | |
| SUBSECTION: TABLE: | JOINT DENSITY | | G/6-22 and | I CL3 SMA SU | JRF 0.38A PG/6-22. | |
| REVISION: | Replace the joint d | | he followin | g: | | |
| | | | | | | |
| | | | | | | |
| | | | Ι | DENSITY | | 7 |
| | | Pay Value | Lane | Density | Joint Density | 7 |
| | | | Lane Test I | e Density Result (%) | Test Result (%) | |
| | | 1.05 | Lane Test I | Posity Result (%) .0-96.5 | Test Result (%) 92.0-96.0 | |
| | | | Lane Test I 95 | Density Result (%) .0-96.5 | Test Result (%) 92.0-96.0 90.0-91.9 | |
| | | 1.05 | Lane Test I 95 | e Density Result (%) .0-96.5 | Test Result (%) 92.0-96.0 | 5 |
| | | 1.05 | Lane Test I 95 93 92.0-92.9 | Density Result (%) .0-96.5 | Test Result (%) 92.0-96.0 90.0-91.9 | |
| | | 1.05 1.00 0.95 0.90 0.75 | Lane Test I 95 93 92.0-92.9 | Density Result (%) .0-96.5 .0-94.9 O or 96.6-97.0 | Test Result (%) 92.0-96.0 90.0-91.9 89.0-89.9 or 96.1-96 | |
| | | 1.05 1.00 0.95 0.90 | Lane Test I 95 93 92.0-92.9 91.0-91.9 | Density Result (%) .0-96.5 .0-94.9 O or 96.6-97.0 | Test Result (%) 92.0-96.0 90.0-91.9 89.0-89.9 or 96.1-96 88.0-88.9 or 96.6-97 | |
| | | 1.05 1.00 0.95 0.90 0.75 | Lane Test I 95 93 92.0-92.9 91.0-91.9 | Density Result (%) .0-96.5 .0-94.9 O or 96.6-97.0 O or 97.1-97.5 | Test Result (%) 92.0-96.0 90.0-91.9 89.0-89.9 or 96.1-96 88.0-88.9 or 96.6-97 < 88.0 or > 97.0 | |
| SUBSECTION: | 501.05.02 Ride Qu | 1.05 1.00 0.95 0.90 0.75 | Lane Test I 95 93 92.0-92.9 91.0-91.9 | Density Result (%) .0-96.5 .0-94.9 O or 96.6-97.0 O or 97.1-97.5 | Test Result (%) 92.0-96.0 90.0-91.9 89.0-89.9 or 96.1-96 88.0-88.9 or 96.6-97 < 88.0 or > 97.0 | |
| SUBSECTION: REVISION: | 501.05.02 Ride Qu Add the following | 1.05 1.00 0.95 0.90 0.75 | Lane Test I 95 93 92.0-92.9 91.0-91.9 < 91.0 | e Density Result (%) .0-96.5 .0-94.9 O or 96.6-97.0 O or 97.1-97.5 | Test Result (%) 92.0-96.0 90.0-91.9 89.0-89.9 or 96.1-96 88.0-88.9 or 96.6-97 < 88.0 or > 97.0 | |
| | Add the following | 1.05 1.00 0.95 0.90 0.75 (I) | Lane Test I 95 93 92.0-92.9 91.0-91.9 < 91.0 | e Density Result (%) .0-96.5 .0-94.9 0 or 96.6-97.0 0 or 97.1-97.5 0 or > 97.5 t paragraph: | Test Result (%) 92.0-96.0 90.0-91.9 89.0-89.9 or 96.1-96 88.0-88.9 or 96.6-97 < 88.0 or > 97.0 | 7.0 |
| REVISION: | Add the following The sum of the pay | 1.05 1.00 0.95 0.90 0.75 (1) aality. sentence to the en | Lane Test I 95 93 92.0-92.9 91.0-91.9 < 91.0 | e Density Result (%) .0-96.5 .0-94.9 0 or 96.6-97.0 0 or 97.1-97.5 0 or > 97.5 t paragraph: | Test Result (%) 92.0-96.0 90.0-91.9 89.0-89.9 or 96.1-96 88.0-88.9 or 96.6-97 < 88.0 or > 97.0 | 7.0 |
| REVISION: SUBSECTION: | Add the following The sum of the pay 505.03.04 Detecta | 1.05 1.00 0.95 0.90 0.75 (1) ality. sentence to the en | Lane Test | e Density Result (%) .0-96.5 .0-94.9 0 or 96.6-97.0 0 or 97.1-97.5 0 or > 97.5 t paragraph: | Test Result (%) 92.0-96.0 90.0-91.9 89.0-89.9 or 96.1-96 88.0-88.9 or 96.6-97 < 88.0 or > 97.0 | 7.0 |
| REVISION: | Add the following The sum of the pay | 1.05 1.00 0.95 0.90 0.75 (1) ality. sentence to the en | Lane Test | e Density Result (%) .0-96.5 .0-94.9 0 or 96.6-97.0 0 or 97.1-97.5 0 or > 97.5 t paragraph: | Test Result (%) 92.0-96.0 90.0-91.9 89.0-89.9 or 96.1-96 88.0-88.9 or 96.6-97 < 88.0 or > 97.0 | 7.0 |
| REVISION: SUBSECTION: | Add the following The sum of the pay 505.03.04 Detecta Replace the first se | 1.05 1.00 0.95 0.90 0.75 (I) ality. sentence to the ency value adjustment with the forwarning pavers at a | Lane Test | e Density Result (%) .0-96.5 .0-94.9 0 or 96.6-97.0 0 or 97.1-97.5 0 or > 97.5 t paragraph: le quality shall | Test Result (%) 92.0-96.0 90.0-91.9 89.0-89.9 or 96.1-96 88.0-88.9 or 96.6-97 < 88.0 or > 97.0 | 7.0 |

| CLIDGECTRON | TOT OLOAD COLLEGE COLL |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SUBSECTION: REVISION: | 505.04.04 Detectable Warnings. Replace the paragraph with the following: |
| | The Department will measure the quantity in square feet. All retrofit applications for maintenance projects will require the removal of existing sidewalks to meet the requirements of the standard drawings applicable to the project. The cost associated with the removal of the existing sidewalk will be incidental to the detectable warnings bid item or incidental to the bid item for the construction of the concrete sidewalk unless otherwise noted. |
| SUBSECTION: REVISION: | 505.05 PAYMENT. Add the following to the bid item table: |
| | CodePay ItemPay Unit23158ES505Detectable WarningsSquare Foot |
| SUBSECTION: REVISION: | 509.01 DESCRIPTION. Replace the second paragraph with the following: |
| | The Department may allow the use of similar units that conform to the National Cooperative Highway Research Program (NCHRP) 350 Test Level 3 (TL-3) requirements and the typical features depicted by the Standard Drawings. Obtain the Engineers approval prior to use. Ensure the barrier wall shape, length, material, drain slot dimensions and locations typical features are met and the reported maximum deflection is 3 feet or less from the NCHRP 350 TL-3 for Test 3 – 11 (pickup truck impacting at 60 mph at a 25-degree angle.) |
| SUBSECTION: REVISION: | 601.03.02 Concrete Producer Responsibilities. Add the following to the first paragraph: |
| | If a concrete plant becomes unqualified during a project and there are no other qualified plants in the region, the Department will provide qualified personnel to witness and ensure the producer follows the required specifications. The Department will assess the Contractor a \$100 per hour charge for this service. |
| SUBSECTION: REVISION: | 606.02.11 Coarse Aggregate. Replace with the following: |
| MEVISION. | Conform to Section 805, size No. 8 or 9-M. |
| SUBSECTION: REVISION: | 609.04.06 Joint Sealing. Replace Subsection 601.04 with the following: |
| REVISION. | Subsection 606.04.08. |
| SUBSECTION: REVISION: | 609.05 Payment. Replace the Pay Unit for Joint Sealing with the following: |
| KE VISION: | |
| | See Subsection 606.05. |
| SUBSECTION: REVISION: | 701.03.06 Initial Backfill. Replace the first sentence of the last paragraph with the following: |
| | When the Contract specifies, perform quality control testing to verify compaction according to KM 64-512. |

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(Effective with the July 30, 2010 Letting)

| SUBSECTION |
|------------|
|------------|

REVISION:

701.03.08 Testing of Pipe.

Replace and rename the subsection with the following:

701.03.08 Inspection of Pipe. The engineer will visually inspect all pipe. The Department will require camera/video inspection on a minimum of 50 percent of the linear feet of all installed pipe structures. Conduct camera/video inspection according to KM 64-114. The pipe to be installed under pavement will be selected first. If the total linear feet of pipe under pavement is less than 50 percent of the linear feet of all pipe installed, the Engineer will randomly select installations from the remaining pipe structures on the project to provide for the minimum inspection requirement. The pipe will be selected in complete runs (junction-junction or headwall-headwall) until the total linear feet of pipe to be inspected is at least 50 percent of the total linear feet of all installed pipe on the project.

Unless the Engineer directs otherwise, schedule the inspections no sooner than 30 days after completing the installation and completion of earthwork to within 1 foot of the finished subgrade. When final surfacing conflicts with the 30-day minimum, conduct the inspections prior to placement of the final surface. The contractor must ensure that all pipe are free and clear of any debris so that a complete inspection is possible.

Notify the Engineer immediately if distresses or locations of improper installation are discovered. When camera testing shows distresses or improper installation in the installed pipe, the Engineer may require additional sections to be tested. Provide the video and report to the Engineer when testing is complete in accordance with KM 64-114.

Pipes that exhibit distress or signs of improper installation may necessitate repair or removal as the Engineer directs. These signs include, but are not limited to: deflection, cracking, joint separation, sagging or other interior damage. If corrugated metal or thermoplastic pipes exceed the deflection and installation thresholds indicated in the table below, provide the Department with an evaluation of each location conducted by a Professional Engineer addressing the severity of the deflection, structural integrity, environmental conditions, design service life, and an evaluation of the factor of safety using Section 12, "Buried Structures and Tunnel Liners," of the AASHTO LRFD Bridge Design Specifications. Based on the evaluation, the Department may allow the pipe to remain in place at a reduced unit price as shown in the table below. Provide 5 business days for the Department to review the evaluation. When the pipe shows deflection of 10 percent or greater, remove and replace the pipe. When the camera/video or laser inspection results are called into question, the Department may require direct measurements or mandrel testing.

The Cabinet may elect to conduct Quality Assurance verifications of any pipe inspections.

SUBSECTION:

701.04.07 Testing.

REVISION:

Replace and rename the subsection with the following:

701.04.07 Pipeline Video Inspection. The Department will measure the quantity in linear feet along the pipe invert of the structure inspected. When inspection above the specified 50 percent is performed due to a disagreement or suspicion of additional distresses and the Department is found in error, the Department will measure the quantity as Extra Work according to Subsection 104.03. However, if additional distresses or non-conformance is found, the Department will not measure the additional inspection for payment.

SUBSECTION:

701.05 PAYMENT.

REVISION:

Add the following pay item to the list of pay items:

Pay Item

Code 23131ER701 Pipeline Video Inspection

Pay Unit Linear Foot

| SUBSECTION: TABLE: | | | | | | | | | | | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--|--|--|--|--|--|--|--|
| REVISION: | | | | | | | | | | | |
| | | | | | | | | | | | |
| | PIPE DEFLECTION | | | | | | | | | | |
| | Amount of Deflection (9 | %) Payme | ent | | | | | | | | |
| | 0.0 to 5.0 | | of the Unit Bid Price | | | | | | | | |
| | 5.1 to 9.9 50% of the Unit Bid Price (1) | | | | | | | | | | |
| | 10 or greater | Remov | ve and Replace | | | | | | | | |
| | | Provide Structural Analysis as indicated above. Based on the structural analysis, pipe may be owed to remain in place at the reduced unit price. | | | | | | | | | |
| SUBSECTION: | 701.05 PAYMENT | | | | | | | | | | |
| TABLE: | PIPE DEFLECTION DETERMINI | ED BY MANDREL TESTIN | G | | | | | | | | |
| REVISION: SUBSECTION: | Delete this table. 713.02.01 Paint. | | | | | | | | | | |
| REVISION: | 713.02.01 Paint. Replace with the following: | | | | | | | | | | |
| | Conform to Section 842 and Section 846. | | | | | | | | | | |
| SUBSECTION: | 713.03 CONSTRUCTION. | | | | | | | | | | |
| REVISION: | Replace the first sentence of the second paragraph with the following: | | | | | | | | | | |
| | On interstates and parkways, and other routes approved by the State Highway Engineer, install pavement striping that is 6 inches in width. | | | | | | | | | | |
| SUBSECTION: | 713.03.03 Paint Application. | | | | | | | | | | |
| REVISION: | Replace the second paragraph with | the following table: | | | | | | | | | |
| | Material | Paint Application Rate | Glass Beads Application Rate | | | | | | | | |
| | 4 inch waterborne paint | Min. of 16.5 gallons/mile | Min. of 6 pounds/gallon | | | | | | | | |
| | 6 inch waterborne paint 6 inch durable waterborne paint | Min. of 24.8 gallons/mile Min. of 36 gallons/mile | Min. of 6 pounds/gallon Min. of 6 pounds/gallon | | | | | | | | |
| | o inchi durable waterborne paint | Mill. of 30 gallons/fille | Mill. of 6 pounds/ganon | | | | | | | | |
| SUBSECTION: | 713.03.04 Marking Removal. | | | | | | | | | | |
| REVISION: | Replace the last sentence of the par | ragraph with the following: | | | | | | | | | |
| | Vacuum all marking material and r | emoval debris concurrently w | rith the marking removal operation. | | | | | | | | |
| SUBSECTION: | 713.05 PAYMENT. | | | | | | | | | | |
| REVISION: | Insert the following codes and pay | items below the Pavement Str | riping – Permanent Paint: | | | | | | | | |
| | Code Description | | Described | | | | | | | | |
| | <u>Code</u> <u>Pay Item</u> 23159EN Durable Waterbo | rne Marking – 6 IN W | Pay Unit Linear Foot | | | | | | | | |
| | | rne Marking – 6 IN Y | Linear Foot | | | | | | | | |
| SUBSECTION: | 714.03 CONSTRUCTION. | | | | | | | | | | |
| REVISION: | Insert the following paragraph at the | e end of the third paragraph: | | | | | | | | | |
| | Use Type I Tape for markings on bridge decks, JPC pavement and JPC intersections. Thermoplastic should only be used for markings on asphalt pavement. | | | | | | | | | | |

| SUBSECTION: | 714.03.07 Marking Removal. | | | | | | |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| REVISION: | Replace the third sentence of the paragraph with the following: | | | | | | |
| | Vacuum all marking material and removal debris concurrently with the marking removal operation. | | | | | | |
| SUBSECTION: | 716.01 DESCRIPTION. | | | | | | |
| REVISION: | Insert the following after the first sentence: | | | | | | |
| KE VISION. | insert the following after the first sentence. | | | | | | |
| | Energize lighting as soon as it is fully functional and ready for inspection. Ensure that lighting remains operational until the Division of Traffic Operations has provided written acceptance of the electrical work. | | | | | | |
| SUBSECTION: | 716.02.01 Roadway Lighting Materials. | | | | | | |
| REVISION: | Replace the third sentence of the paragraph with the following: | | | | | | |
| KE VISIOIV. | Replace the tilled sentence of the paragraph with the following. | | | | | | |
| | Submit for material approval an electronic file of descriptive literature, drawings, and any requested design data. | | | | | | |
| SECTION: | 717 – THERMOPLASTIC INTERSECTION MARKINGS. | | | | | | |
| REVISION: | Replace the section name with the following: | | | | | | |
| | | | | | | | |
| | INTERSECTION MARKINGS. | | | | | | |
| | | | | | | | |
| SUBSECTION: | 717.01 DESCRIPTION: | | | | | | |
| REVISION: | Replace the paragraph with the following: | | | | | | |
| | | | | | | | |
| | Furnish and install thermoplastic or Type I tape intersection markings (Stop Bars, Crosswalks, Turn | | | | | | |
| | Arrows, etc.) Thermoplastic markings may be installed by either a machine applied, screed extrusion | | | | | | |
| | process or by applying preformed thermoplastic intersection marking material. | | | | | | |
| | | | | | | | |
| SUBSECTION: | 717.02 MATERIALS AND EQUIPMENT. | | | | | | |
| REVISION: | Insert the following subsection: | | | | | | |
| | | | | | | | |
| | 717.02.06 Type I Tape. Conform to Section 836. | | | | | | |
| CHDCECTION | 717.02.02 Application | | | | | | |
| SUBSECTION: REVISION: | 717.03.03 Application. Insert the following part to the subsection: | | | | | | |
| KE VISION: | insert the following part to the subsection. | | | | | | |
| | B) Type I Tape Intersection Markings. Apply according to the manufacturer's recommendations. Cut | | | | | | |
| | all tape at pavement joints when applied to concrete surfaces. | | | | | | |
| | | | | | | | |
| SUBSECTION: | 717.03.05 Proving Period. | | | | | | |
| PART: | A) Requirements. | | | | | | |
| REVISION: | Insert the following to this section: | | | | | | |
| | | | | | | | |
| | 2) Type I Tape. During the proving period, ensure that the pavement marking material shows no signs | | | | | | |
| | of failure due to blistering, excessive cracking, bleeding, staining, discoloration, oil content of the | | | | | | |
| | pavement materials, drippings, chipping, spalling, poor adhesion to the pavement, loss of | | | | | | |
| | retroreflectivity, vehicular damage, and normal wear. Type I Tape is manufactured off site and | | | | | | |
| | warranted by the manufacturer to meet certain retroreflective requirements. As long as the material is | | | | | | |
| | adequately bonded to the surface and shows no signs of failure due to the other items listed in | | | | | | |
| | Subsection 714.03.06 A) 1), retroreflectivity readings will not be required. In the absence of readings, | | | | | | |
| | the Department will accept tape based on a nighttime visual observation. | | | | | | |
| | | | | | | | |

| SUBSECTION: | 717.03.06 Marking Removal. | | | | | | | | |
|------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------|--|--|--|--|--|--|
| REVISION: | Replace the third sentence of the paragraph with the following: | | | | | | | | |
| | Vacuum all marking material and removal debris concurrently with the marking removal operation. | | | | | | | | |
| | vacuum an marking material and temoval deoris concurrently with the marking femoval operation. | | | | | | | | |
| SUBSECTION: | 717.05 PAYMENT. | | | | | | | | |
| REVISION: | Insert the following bid item codes: | | | | | | | | |
| | | | | | | | | | |
| | Code | Pay Unit | Pay Item | | | | | | |
| | 06563 Pave Marking – R/R X Bucks 16 IN Linear Foot | | | | | | | | |
| | 20782NS714 | Pave Marking Thermo – Bike | Each | | | | | | |
| | 23251ES717, 23264ES717 Pave Mark TY I Tape X-Walk, Size Linear Foot | | | | | | | | |
| | 23252ES717, 23265ES717 Pave Mark TY I Tape Stop Bar, Size Linear Foot | | | | | | | | |
| | 23253ES717 | Pave Mark TY I Tape Cross Hatch | Square Foot | | | | | | |
| | 23254ES717 | Pave Mark TY I Tape Dotted Lane Extension | Linear Foot | | | | | | |
| | 23255ES717 Pave Mark TY I Tape Arrow, Type Each | | | | | | | | |
| | 23268ES717-23270ES717 | | | | | | | | |
| | 23256ES717 | Pave Mark TY I Tape- ONLY | Each | | | | | | |
| | 23257ES717 | Pave Mark TY I Tape- SCHOOL | Each | | | | | | |
| | 23266ES717 | Pave Mark TY 1 Tape R/R X Bucks-16 IN | Linear Foot | | | | | | |
| | 23267ES717 | Pave Mark TY 1 Tape-Bike | Each | | | | | | |
| SUBSECTION: | 805.01 GENERAL. | | | | | | | | |
| REVISION: | Replace the second paragraph with the following: | | | | | | | | |
| | | - | | | | | | | |
| | | oved Materials includes the Aggregate Source List, th | e list of Class A and | | | | | | |
| | Class B Polish-Resistant Aggre | gate Sources, and the Concrete Restriction List. | | | | | | | |
| SUBSECTION: | 805.04 CONCRETE. | | | | | | | | |
| REVISION: | | reference in first sentence of the third paragraph with | "KM 64-629" | | | | | | |
| | 1 | r | | | | | | | |
| SUBSECTION: | 805.15 GRADATION ACCEP | TANCE OF NON-SPECIFICATION COARSE AGO | GREGATE. | | | | | | |
| TABLE: | AGGREGATE SIZE USE | | | | | | | | |
| PART: | Cement Concrete Structures and | d Incidental Construction | | | | | | | |
| REVISION: | | g Overlays" with "8 or 9-M for Waterproofing Overlage" | ays" | | | | | | |
| | | | - | | | | | | |

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(Effective with the July 30, 2010 Letting)

SUBSECTION: 805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.

REVISION: Replace the "SIZES OF COARSE AGGREGATES" table in with the following:

| SIZES OF COARSE AGGREGATES | | | | | | | | | | | | | | | | | |
|------------------------------------------|---------------------------------------------------------------------------------------|--------|------------|--------|------------|--------|------------|--------|----------|----------|----------|--------|-------|--------|--------|---------|---------|
| | Sieve AMOUNTS FINER THAN EACH LABORATORY SIEVE (SQUARE OPENINGS) PERCENTAGE BY WEIGHT | | | | | | | | | | | | | | | | |
| Aggregate Size | Nominal ⁽³⁾ Maximum Aggregate Size | 4 inch | 3 1/2 inch | 3 inch | 2 1/2 inch | 2 inch | 1 1/2 inch | 1 inch | 3/4 inch | 1/2 inch | 3/8 inch | No. 4 | No. 8 | No. 16 | No. 30 | No. 100 | No. 200 |
| 1 | 3 1/2 inch | 100 | 90-100 | | 25-60 | | 0-15 | | 0-5 | | | | | | | | |
| 2 | 2 1/2 inch | | | 100 | 90-100 | 35-70 | 0-15 | | 0-5 | | | | | | | | |
| 23 | 2 inch | | | 100 | | 40-90 | | 0-15 | | 0-5 | | | | | | | |
| 3 | 2 inch | | | | 100 | 90-100 | 35-70 | 0-15 | | 0-5 | | | | | | | |
| 357 | 2 inch | | | | 100 | 95-100 | | 35-70 | | 10-30 | | 0-5 | | | | | |
| 4 | 1 ½ inch | | | | | 100 | 90-100 | 20-55 | 0-15 | | 0-5 | | | | | | |
| 467 | 1 ½ inch | | | | | 100 | 95-100 | | 35-70 | | 10-30 | 0-5 | | | | | |
| 5 | 1 inch | | | | | | 100 | 90-100 | 20-55 | 0-10 | 0-5 | | | | | | |
| 57 | 1 inch | | | | | | 100 | 95-100 | | 25-60 | | 0-10 | 0-5 | | | | |
| 610 | 1 inch | | | | | | 100 | 85-100 | | 40-75 | | 15-40 | | | | | |
| 67 | 3/4 inch | | | | | | | 100 | 90-100 | | 20-55 | 0-10 | 0-5 | | | | |
| 68 | 3/4 inch | | | | | | | 100 | 90-100 | | 30-65 | 5-25 | 0-10 | 0-5 | | | |
| 710 | 3/4 inch | | | | | | | 100 | 80-100 | | 30-75 | 0-30 | | | | | |
| 78 | 1/2 inch | | | | | | | | 100 | 90-100 | 40-75 | 5-25 | 0-10 | 0-5 | | | |
| 8 | 3/8 inch | | | | | | | | | 100 | 85-100 | 10-30 | 0-10 | 0-5 | | | |
| 9-M | 3/8 inch | | | | | | | | | 100 | 75-100 | 0-25 | 0-5 | | | | |
| 10(2) | No. 4 | | | | | | | | | | 100 | 85-100 | | | | 10-30 | |
| 11(2) | No. 4 | | | | | | | | | | 100 | 40-90 | 10-40 | | | 0-5 | |
| DENSE GRADED AGGREGATE ⁽¹⁾ | 3/4 inch | | | | | | | 100 | 70-100 | | 50-80 | 30-65 | | | 10-40 | | 4-13 |
| CRUSHED STONE BASE (1) | 1 ½ inch | | | | 100 | | 90-100 | | 60-95 | | 30-70 | 15-55 | | | 5-20 | | 0-8 |

⁽¹⁾ Gradation performed by wet sieve KM 64-620 or AASHTO T 11/T 27.

Note: The Department will allow blending of same source/same type aggregate when precise procedures are used such as cold feed, belt, or equivalent and combining of sizes or types of aggregate using the weigh hopper at concrete plants or controlled feed belts at the pugmill to obtain designated sizes.

⁽²⁾ Sizes shown for convenience and are not to be considered as coarse aggregates.

⁽³⁾ Nominal Maximum Size is the largest sieve on the gradation table for an aggregate size on which any material may be retained.

| SUBSECTION: | 805.16 SAMPLING AND TESTING. | | | | | | | | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|
| REVISION: | Replace the "AASHTO T 160" method with the "KM 64-629" method for the Concrete Beam Expansion | | | | | | | | |
| REVISION. | Test. | | | | | | | | |
| | | | | | | | | | |
| | Replace the "ASTM D 3042" method with the "KM 64-625" method for Insoluble Residue. | | | | | | | | |
| | The first and the first and the first of the | | | | | | | | |
| SUBSECTION: | 810.04.01 Coating Requirements. | | | | | | | | |
| REVISION: | Replace the "Subsection 806.07" references with "Subsection 806.06" | | | | | | | | |
| | Teplate and Subsection cools, Telefonees with Subsection cools, | | | | | | | | |
| SUBSECTION: | 810.06.01 Polyvinyl Chloride (PVC) Pipe. | | | | | | | | |
| PART: | B) Culvert and Entrance Pipe. | | | | | | | | |
| REVISION: | Replace the title with the following: | | | | | | | | |
| | | | | | | | | | |
| | B) Culvert Pipe, Storm Sewer, and Entrance Pipe. | | | | | | | | |
| | | | | | | | | | |
| SUBSECTION: | 837.03 APPROVAL. | | | | | | | | |
| REVISION: | Replace the last sentence with the following: | | | | | | | | |
| | The Deposition and will comple and evaluate for annound and late of the manufaction and will be a like | | | | | | | | |
| | The Department will sample and evaluate for approval each lot of thermoplastic material delivered for use per contract prior to installation of the thermoplastic material. Do not allow the installation of | | | | | | | | |
| | thermoplastic material until it has been approved by the Division of Materials. Allow the Department a | | | | | | | | |
| | minimum of 10 working days to evaluate and approve thermoplastic material. | | | | | | | | |
| | minimum of 10 working days to evaluate and approve mermophastic material. | | | | | | | | |
| SUBSECTION: | 837.03.01 Composition. | | | | | | | | |
| REVISION: | COMPOSITION Table: | | | | | | | | |
| | Replace | | | | | | | | |
| | Lead Chromate 0.0 max. 4.0 min. | | | | | | | | |
| | with | | | | | | | | |
| | Heavy Metals Content Comply with 40 CFR 261 | | | | | | | | |
| ~~~~ | | | | | | | | | |
| SECTION: | DIVISION 800 MATERIAL DETAILS | | | | | | | | |
| REVISION: | Add the following section in Division 800 | | | | | | | | |
| | SECTION 846 – DURABLE WATERBORNE PAINT | | | | | | | | |
| | DECTION 040 - DURIDLE WITERDORNETHIN | | | | | | | | |
| | 846.01 DESCRIPTION. This section covers quick-drying durable waterborne pavement striping paint | | | | | | | | |
| | for permanent applications. The paint shall be ready-mixed, one-component, 100% acrylic waterborne | | | | | | | | |
| | striping paint suitable for application on such traffic-bearing surfaces as Portland cement concrete, | | | | | | | | |
| | bituminous cement concrete, asphalt, tar, and previously painted areas of these surfaces. | | | | | | | | |
| | 846.02 Approval. Select materials that conform to the composition requirements below. Provide | | | | | | | | |
| | independent analysis data and certification for each formulation stating the total concentration of each | | | | | | | | |
| | heavy metal present, the test method used for each determination, and compliance to 40 CFR 261 for | | | | | | | | |
| | leachable heavy metals content. Submit initial samples for approval before beginning striping | | | | | | | | |
| | operations. The initial sample may be sent from the manufacture of the paint. The Department will | | | | | | | | |
| | randomly sample and evaluate the paint each week that the striping operations are in progress. | | | | | | | | |
| | | | | | | | | | |
| | The non-volatile portion of the vehicle shall be composed of a 100% acrylic polymer as | | | | | | | | |
| | determined by infrared spectral analysis. The acrylic resin used shall be a 100% cross-linking acrylic as | | | | | | | | |
| | evidenced by infrared peaks at wavelengths 1568, 1624, and 1672 cm-1 with intensities equal to those | | | | | | | | |
| | produced by an acrylic resin known to be 100% cross-linking. | | | | | | | | |
| | | | | | | | | | |
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Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

(Effective with the July 30, 2010 Letting)

| PAINT COMPOSITION | | | | | | | | |
|-----------------------------------|-----------------------------|-----------------------------|--|--|--|--|--|--|
| Property and Test Method | Yellow | White | | | | | | |
| Daytime Color (CIELAB) | L* 81.76 | L* 93.51 | | | | | | |
| Spectrophotometer using | a* 19.79 | a* -1.01 | | | | | | |
| illuminant D65 at 45° | b* 89.89 | b* 0.70 | | | | | | |
| illumination and 0° viewing with | Maximum allowable variation | Maximum allowable variation | | | | | | |
| a 2° observer | 2.0ΔE* | 2.0ΔE* | | | | | | |
| Nighttime Color (CIELAB) | L* 86.90 | L* 93.45 | | | | | | |
| Spectrophotometer using | a* 24.80 | a* -0.79 | | | | | | |
| illuminant A at 45° illumination | b* 95.45 | b* 0.43 | | | | | | |
| and 0° viewing with a 2° observer | Maximum allowable variation | Maximum allowable variation | | | | | | |
| | 2.0ΔE* | 2.0ΔE* | | | | | | |
| Heavy Metals Content | Comply with 40 CFR 261 | Comply with 40 CFR 261 | | | | | | |
| Titanium Dioxide | NA | 10% by weight of pigment | | | | | | |
| ASTM D 4764 | | min. | | | | | | |
| VOC | 1.25 lb/gal max. | 1.25 lb/gal max. | | | | | | |
| ASTM D 2369 and D 4017 | | | | | | | | |
| Contrast Ratio | 0.97 | 0.99 | | | | | | |
| (at 15 mils wft) | | | | | | | | |

846.02.01 Manufacturers Certification. Provide a certification of analysis for each lot of traffic paint produced stating conformance to the requirements of this section. Report the formulation identification, traffic paint trade name, color, date of manufacturer, total quantity of lot produced, actual quantity of traffic paint represented, sampling method utilized to obtain the samples, and data for each sample tested to represent each lot produced.

846.03 ACCEPTANCE PROCEDURES FOR NON-SPECIFICATION DURABLE WATERBORNE PAVEMENT STRIPING PAINT. When non-specification paint is inadvertently incorporated into the work the Department will accept the material with a reduction in pay. The percentage deduction is cumulative based on its compositional properties, but will not exceed 60 percent. The Department will calculate the payment reduction on the unit bid price for the routes where the non-specification paint was used.

| DURABLE WATERBORNE PAVEMENT STRIPING PAINT REDUCTION SCHEDULE | | | | | | | | | | |
|---------------------------------------------------------------|-------|-------|----------|------------------|-----|----------------------------|--|--|--|--|
| Non- conforming Property | Resin | Color | Contrast | TiO ₂ | VOC | Heavy Metals Content | | | | |
| Reduction Rate | 60% | 10% | 10% | 10% | 60% | 60% | | | | |