

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
MAINTENANCE AND OPERATIONS
CONSTRUCTION PLANS AND SPECIFICATIONS FOR

Open-End, Guardrail Upgrades, New Castle County, FY27-FY29

CONTRACT NUMBER – T202780201

FEDERAL AID NUMBER – N/A

PROJECT ID – 2026-00115

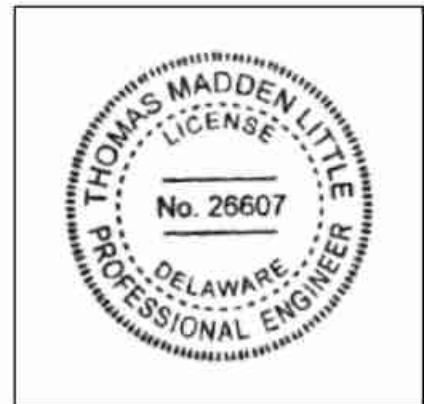
COUNTY: NEW CASTLE

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CANAL DISTRICT MAINTENANCE ENGINEER

9/4/2026

DATE



APPROVED FOR ADVERTISEMENT

Pamela Steinobach

DIRECTOR OF MAINTENANCE AND OPERATIONS

9/10/26

DATE

DELAWARE DEPARTMENT OF TRANSPORTATION

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CONTRACT DESCRIPTION

The purpose of this Contract is to repair and improve guardrail, guardrail components, end treatments, permanent impact attenuators, and crash cushions in New Castle County. The work shall include, but is not limited to: removal, replacement, repair, and new installation of guardrail, guardrail components, end treatments, crash cushions, grading, installation and repair of bituminous pavements or maintenance strips, etc., maintenance of traffic, restoration, and any other related work activities to complete each work order.

The specific work sites are not listed herein, but will be scheduled by issuance of work orders from the District Maintenance office. The work orders will indicate the work to be performed at each site. Work sites may include interstates, freeways, local roads, etc.

This contract includes Emergency repair work, requiring the Contractor to appear in full readiness within 24 hours of notification by the Engineer or representative.

The duration of this open-end contract shall be for a period of three (3) years from the date of the initial "Notice to Proceed" (NTP) letter.

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GENERAL NOTES

1. All work shall be performed in accordance with the Delaware Department of Transportation Standard Specifications for Road and Bridge Construction dated January 2026 and the Delaware Department of Transportation Standard Constructions Details dated 2026, including all revisions up to the date of advertisement.
2. Tasking of work is contingent upon authorization of State funding.
3. The Department reserves the right to prioritize, substitute, add, or delete work order locations at any time during the contract.
4. The Contract shall not expire upon reaching the award amount; it expires when the allotted amount of calendar days has been exhausted. Depending on fund availability, the Contract amount may be increased. Any increase shall not be cause for the contractor to discontinue work nor is the contractor owed the entire award amount if the entire award amount is not met.
5. Item 763000 (Initial Expense / Demobilization) shall only be paid once and shall not be paid again or increased if the value of the Contract exceeds the award amount.
6. No environmental permits are required for this work provided no jurisdictional wetlands or waters are impacted. If there is any question as to whether a water or wetland is jurisdictional, the contractor shall contact the DelDOT Environmental Section at (302) 760-2280 prior to the start of work.
7. Work within waters/wetlands shall not begin on locations requiring environmental permits until all applicable permits have been obtained by DelDOT. Confirm permit status with DelDOT prior to commencement of applicable work.
8. It is anticipated that all work will occur within DelDOT's existing right of way or easement areas. Should the need occur to trespass onto private property; it will be the responsibility of the Engineer to secure such trespass needs.
9. The Contractor shall provide all residents and businesses adjacent to the work zone a minimum 48-hour prior written notice for all phases of construction work. This notice shall include the scope of work, work hours, anticipated start and completion dates, contractor name, contact numbers and address, and DelDOT contact numbers. Failure to give notice will result in suspension of work. This work is incidental to Item 763000 (Initial Expense / Demobilization).
10. It is anticipated that all work will occur within DelDOT's right of way. Should the need occur to trespass onto railroad property, including the highway-rail crossing; it will be the responsibility of the Project Manager to contact the DelDOT Railroad Coordinator and obtain written authorization before entering.

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11. No utility relocation involvement is anticipated. Should any conflicts be encountered during construction requiring adjustment and/or relocation of the agencies' existing facilities, the necessary relocation work shall be accomplished by the respective agencies' forces, as directed by the District Engineer. Any adjustments and/or relocations of municipally owned facilities shall be done by the State's contractor in accordance with the respective agencies' standard specifications as directed by the District Engineer. Payment shall be made using contract unit pricing or where no pricing is available; it shall be negotiated prior to the commencement of work.
12. Underground utilities may be present at all locations. Therefore, all standard practices and procedures regarding utilities shall be followed. The Contractor shall contact Miss Utility of Delaware prior to starting each work order. The Contractor is responsible for the support and protection of all utilities when excavating which shall be incidental to the respective excavation item(s). The Contractor is responsible for ensuring proper clearances, including safety clearances, from overhead utilities for construction equipment. The Contractor is advised to check the site for access purposes for their equipment and make arrangements directly with the utility companies for field adjustments for adequate clearances if necessary.
13. There will not be a winter shutdown on this contract. The Department reserves the right to issue work and charge time from October 16th to April 30th.
14. Upon issuance of each work order the contractor shall submit the required copies of a detailed Progress Schedule as outlined in Section 108.4 within 5 calendar days of the issuance of the work order. During the contract, the contractor shall submit two-week (or as required) "look ahead" schedules to the Area Engineer no later than noon of each Thursday. Details shall include a description of each work activity, the planned days of work, multiple crews or shifts, and scheduled working hours. Failure to comply will result in a suspension of all contract work with time charges continuing to be assessed. The Progress Schedule must also be updated and submitted to the department as changes or delays occur in the contract. This work is incidental to Item 763000 (Initial Expense / Demobilization).
15. Work Orders will vary in size. There will be no maximum or minimum item quantity per work order or work location. Work orders may include single repairs or large areas of repairs, utilizing any combination of repair items at each work location.
16. The Contractor will be advised of work to be performed or deleted via a Work Order. The Work Order will outline the work locations, planned items, quantities of work, and will indicate the allowable time to perform work. Once time (Calendar Days) has been assigned to a work order and issued, the Contractor has 2 business days, not including the day of issuance, to dispute the time quantity and provide additional backup documentation for why the time quantity is not sufficient. A detailed breakdown of labor/materials/equipment along with the Contractor's time estimate will be required; this information must be received by the Department by the end of the 2nd business day, or the Department will consider the Contractor in agreement with the time estimate. The

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Engineer will evaluate any request for modification to the time estimate and at his sole discretion determine if additional time is granted. Disputing a time quantity does not constitute a delay in commencement of a work order.

17. Any and all construction engineering shall be incidental to the contract.

18. Prosecution and Progress of Work:

The Contractor shall commence on work indicated on the work order no later than the fifth (5th) business day after issuance unless required materials, railroad access, or railroad authorizations are not available. Non-availability of materials shall be verified by at least three (3) different sources. Verification shall be formal and supplied by the Contractor in writing.

Issuance of each work order constitutes the notice to proceed with the work described on the work order. Time charges commence from the date of the NTP and continue until substantial completion, as determined by the Engineer, of the individual work order.

If there is a verified non-availability of materials, time charges shall commence on the first (1st) working day following the delivery date of materials.

The Contractor may have up to six (6) active work orders at any time until all assigned work has been completed. The Contractor is required to have a minimum of two working crews readily available to work on this contract simultaneously, with the ability to provide additional working crews if requested by the Engineer. Each crew is required to have a qualified superintendent as outlined in Section 105.7 of the Standard Specifications.

Failure to start assigned work orders in the allowed time constitutes "Failure to Pursue the Work" and subjects the Contractor to Liquidated damages as outlined in Section 108.8 of the Standard Specifications. If work on a specific work order is not completed within the allotted time, Liquidated Damages will be assessed in accordance with Subsection 108.9 and based on the total value of that work order.

Each work order shall be considered a separate unit of work. Upon the substantial completion of the work at an individual location, the Engineer will stop time at that location and perform an initial inspection for the work order location in accordance with Subsection 105.16. The Engineer reserves the right to require the Contractor to add work or make repairs to completed locations until such a location has been accepted by the Department. The Contractor must repair all defects in the work caused by poor workmanship or materials at his/her own expense until the Department accepts the Contract after the Primary Inspection.

A Primary Inspection will be completed on an annual basis for work orders completed in a calendar year. Upon satisfactory completion of the Final Punchlist, the Department will accept the location and release the Contractor from responsibility for the Work at that location. If a work order is

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sufficiently large and complex as determined by the Engineer, a Final Inspection may be held upon the individual completion of that work order.

19. Delete Section 104.2.B.4 of the DelDOT Standard Specifications, and replace with the following:

The Department reserves the right to, at any time prior to completion of the contract, issue plan revisions, make adjustments in Contract item quantities, or make such alterations considered necessary to satisfactorily complete the Contract.

The Department reserves the right to increase or decrease the quantities of Pay Items specified in the Contract. Such additions or deletions shall not be cause for an increase or decrease in Contract unit bid prices. The "Change" threshold of plus or minus 25%, as described in Subsection 104.2.B.4 of the DelDOT Standard Specifications dated January 2026 shall not apply to this Contract. Quantity increases or decreases of plus or minus 25% or greater shall not be justification for adjustments to unit prices.

The plan revisions and quantity adjustments described above do not invalidate the Contract or release the Contract surety. Payment for these changes shall exclude any amount for loss of anticipated profits alleged to result from the change.

When payment for the Contract work cannot be agreed upon by the Contractor and the Department prior to starting such work ordered, the Department may direct the Contractor to perform the work under Force Account provisions of Subsection 109.4. The Contractor will proceed immediately with the work so ordered and such direction shall neither invalidate the Contract, nor release the surety.

20. Trash, rubbish, debris, or brush that hampers repair / maintenance work in this Contract (as determined by the Engineer), shall be removed within the project limits and shall be incidental to Pay Item 763000 (Initial Expense / Demobilization).
21. Proper disposal of construction related wastes shall be the sole responsibility of the Contractor and shall be performed in accordance with all applicable State regulations. Payment shall be incidental to Pay Item 763000 (Initial Expense / Demobilization.)
22. Excavated material not needed on the project shall be removed from the site at Contractor's expense.
23. Clearing and grubbing of trees, shrubs, and other vegetation less than 6 inches in diameter shall be incidental to Item 763000 (Initial Expense / Demobilization). Grubbing activities performed in wetland areas requires environmental permit approvals.
24. Grass and soil areas within State right-of-way that have been damaged by equipment during this contract, shall be restored with topsoil, seed and mulch at Contractor's own expense, and in accordance with the requirements for Items 908004 (Topsoil, 6" Depth) and 908014 (Permanent Grass Seeding, Dry Ground).
25. Portable Light Assemblies will be required for all nighttime operations and as directed by the Engineer. Payment for portable lighting shall be under pay item 804001 (Provide and Maintain

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Portable Light Assembly). Night work may be required in certain locations, no additional payment outside Item 804001 (Provide and Maintain Portable Light Assembly) is warranted or applicable.

PROJECT NOTES

26. In case of an emergency, the Department or Department's Representative will notify the Contractor, by telephone of the extent of work, in which case the repair work shall begin within twenty-four (24) hours of the telephone contact. An emergency repair will stop time at all open work order locations, to resume when the Emergency repair is complete. Emergency mobilization shall be paid under Item 763507 (Emergency Mobilization). No additional payment outside Item 763507 (Emergency Mobilization) is warranted or applicable.
27. Re-setting of posts knocked out of position is incidental to the applicable rail item, there will be no additional pay for re-setting posts knocked out of position.
28. Backfill of holes created by post removal, in compacted lifts, providing and installing rail backup plates, bolts, nuts, washers, providing and setting up traffic cones and/or patterns are incidental to the Bid items. Cost for the placement of one-third (1/3) of a cubic yard of Portland Cement Concrete around the base of unstable posts, as directed by the Engineer, is incidental to the unit price bid for Item 720006 (Galvanized Steel Post) or Item 720019 (Galvanized Steel Post, 8'). Cost for excavating and disposing of up to one (1) cubic yard of material and/or grading (up to a 6" depth) to meet the manufacturer's slope requirements is incidental to the unit price bid for Items 721000 (Guardrail End Treatment, Type 1-31, Test Level 2), 721001 (Guardrail End Treatment, Type 1-31, Test Level 3), 721003 (Guardrail End Treatment, Type 2-31, Test Level 3), or 721004 (Guardrail End Treatment, Type 3-31). If excavation in excess of one (1) cubic yard is required, then the entire excavation necessary to meet the grading requirements at the location in question will be measured and paid for under item 202000 (Excavation and Embankment). If additional borrow is needed to construct the required grading zone, payment shall be made under Item 209004 (Borrow, Type C).
29. For the purposes of this Contract, the repair or replacement guardrail type and location shall be identical to the damaged guardrail, except in the instances when an upgrade to the current standard of guardrail is deemed necessary, or when otherwise directed by the Engineer. The Engineer shall determine for the Contractor what, if any, guardrail elements shall be reused on each project. Any guardrail elements not reused, as determined by the Engineer, become property of the Contractor. Removal and legal disposal of the unused elements, including, but not limited to rails, posts, end treatments, and anchors are the responsibility of the Contractor with costs incidental to the item being repaired. Certain types of rope or cable guardrail hardware, however, will become the Department's property, as specified by the Engineer.
30. For the purposes of this Contract, the repair or replacement of permanent impact attenuator or end treatment type and location shall be identical to the damaged impact attenuator or end

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treatment, except in instances when an upgrade to the current standard of impact attenuators is deemed necessary, or when otherwise directed by the Engineer. The Engineer shall determine with the Contractor what, if any, impact attenuator elements shall be reused on each project. Any impact attenuator elements not to be reused become the property of the Contractor. Removal and legal disposal of the unused elements, including, but not limited to rails, plastic noses, type I and II cartridges, fender assemblies, diaphragm assemblies, backups, posts, end attachments, and anchors are the Contractor's responsibility.

31. For Items 724002, 724005, and 724006, the Engineer shall determine and select the specific device per location. All products on the Approved Products List apply to these items, per Section 724.

32. GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1

All bolts, washers, and nuts shall be incidental to repairs. These repairs apply to all types of existing end treatment attenuators.

a. LEVEL I REPAIR (Item 720595)

When the Attenuator is damaged up to, but not including the third post, the following items shall be reused or replaced at the discretion of the Engineer or representative.

Guardrail Extruder	(Reuse)
Bearing Plate	(Reuse)
Assembly Cable	(Reuse)
Strut	(Reuse)
Cable Anchor	(Reuse)
Deep Beam Guardrail	(Replace)
Wood Post	(Replace)
Impact Head	(Reuse)*
Ground Strut	(Reuse)
W-Beam Guardrail End	(Replace)

*If the Impact head is not reusable as determined by the Engineer or representative, the item will be paid as a Level II Repair.

b. LEVEL II REPAIR (Item 720596)

When the Attenuator is damaged up to, but not including the fifth post, the following items shall be reused or replaced at the discretion of the Engineer or representative.

Guardrail Extruder	(Reuse)
Bearing Plate	(Reuse)
Assembly Cable	(Reuse)
Strut	(Reuse)

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Cable Anchor	(Reuse)
Deep Beam Guardrail	(Replace)
Wood Post	(Replace)
Impact Head	(Reuse)*
Ground Strut	(Reuse)
W-Beam Guardrail End	(Replace)
Wood Block	(Replace)

*If the Impact head is not reusable as determined by the Engineer or representative, the item will be paid as a Level III Repair.

c. LEVEL III REPAIR

A Level III Repair shall be a complete replacement of the Attenuator Unit.

33. GUARDRAIL END TREATMENT ATTENUATOR, TYPE 2

All bolts, washers, and nuts shall be incidental to repairs. These repairs apply to all types of existing end treatment attenuators.

d. LEVEL I REPAIR (Item 720597)

When the Attenuator is damaged up to, but not including the second post, the following items shall be reused or replaced at the discretion of the Engineer or representative.

Impact Head	(Reuse)*
Barrier (Terminal)	(Replace)
Strut Assembly	(Replace)
Cable	(Replace)
Cable Anchor Bracket	(Replace)
Back up Plate	(Replace)
Post	(Replace)
Bearing Plate	(Replace)
Pipe	(Replace)
Guardrail	(Replace)

*If the Impact head is not reusable as determined by the Engineer or representative, the item will be paid as a Level III Repair.

e. LEVEL II REPAIR (Item 720598)

When the Attenuator is damaged up to, but not including the third post, the following items shall be reused or replaced at the discretion of the Engineer or representative.

Impact Head	(Reuse)*
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Barrier (Terminal)	(Replace)
Strut Assembly	(Replace)
Cable	(Replace)
Cable Anchor Bracket	(Replace)
Back up Plate	(Replace)
Post	(Replace)
Bearing Plate	(Replace)
Pipe	(Replace)
Guardrail	(Replace)
Block	(Replace)

*If the Impact head is not reusable as determined by the Engineer or representative, the item will be paid as a Level III Repair.

f. LEVEL III REPAIR

A Level III Repair shall be a complete replacement of the Attenuator Unit, which shall include parts and labor to bring unit up to standard.

NOTE: If damage to 5' tube sleeve occurs, this will be considered a LEVEL II Repair. Soil Plate may also need to be replaced.

34. GUARDRAIL END TREATMENT ATTENUATOR, TYPE 3

All bolts, washers, and nuts shall be incidental to repairs. These repairs apply to all types of existing end treatment attenuators.

g. LEVEL I REPAIR (Item 720601)

When the Attenuator is damaged up to, but not including the second post, the following items shall be replaced at the discretion of the Engineer or representative.

Nose Plate / Rolled
Channel Strut
Side Plate
Bearing Plate
Pipe Sleeve
Cable Assembly
Bent Plate Sleeve
Wood Post
Wood Block

h. LEVEL II REPAIR (Item 720600)

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When the Attenuator is damaged up to, but not including the third post, the following items shall be replaced at the discretion of the Engineer or representative.

Nose Plate / Rolled
Channel Strut
Side Plate
Bearing Plate
Pipe Sleeve
Cable Assembly
Spacer Channel
Guardrail
Wood Block
Pipe
Wood Post
Tube Sleeve
Soil Plate

Note: Tube Sleeve and Soil Plate may need to be replaced in this level if damaged.

i. LEVEL III REPAIR

A Level III Repair shall be a complete replacement of the Attenuator Unit, which shall include parts and labor to bring unit up to standard.

35. IMPACT ATTENUATOR, TYPE 1

All bolts, washers, screws, and nuts shall be incidental to repairs. These repairs apply to all types of existing Permanent Impact Attenuators, including TYPES 2 & 5.

j. LEVEL I REPAIR (Item 720608)

When the Permanent Attenuator is damaged up to, but not past the first bay, the following Items shall be reused or replaced at the discretion of the Engineer or representative.

Nose	(Replace)
Cartridge	(Replace)
Diaphragm	(Replace)
Fender Panel	(Replace)
Monorail	(Reuse)
Backup	(Reuse)
Bearing Plate	(Reuse)
Assembly Cable	(Reuse)
Strut	(Reuse)

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Cable Anchor	(Reuse)
Ground Strut	(Reuse)

k. LEVEL II REPAIR (Item 720509)

When the Permanent Attenuator is damaged up to, but not past the fourth bay, the following Items shall be reused or replaced at the discretion of the Engineer or representative.

Nose	(Replace)
Cartridge	(Replace)
Diaphragm	(Replace)
Fender Panel	(Replace)
Monorail	(Reuse)
Backup	(Reuse)
Bearing Plate	(Reuse)
Assembly Cable	(Reuse)
Strut	(Reuse)
Cable Anchor	(Reuse)
Ground Strut	(Reuse)

l. LEVEL III REPAIR (Item 720614)

When the Permanent Attenuator is damaged past the fourth bay, the following Items shall be reused or replaced at the discretion of the Engineer or representative.

Nose	(Replace)
Cartridge	(Replace)
Diaphragm	(Replace)
Fender Panel	(Replace)
Monorail	(Replace)
Backup	(Replace)
Bearing Plate	(Replace)
Assembly Cable	(Reuse)
Strut	(Reuse)
Cable Anchor	(Reuse)
Ground Strut	(Reuse)

36. Thrie beam blocks shall be paid as 1.5x the bid price for Item 72033 (Offset Blocks), each.

MAINTENANCE OF TRAFFIC

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37. All work shall be performed in a manner that will reasonably provide the least practicable obstruction to all road users, including vehicular, pedestrian, and bicycle traffic, and shall conform to the requirements of the Delaware Manual of Uniform Traffic Control Devices (MUTCD), part 6, including revisions up to the date of advertisement for bids.
38. Traffic Officers are not required at each location unless specifically required by the MUTCD.
39. The Contractor shall submit all traffic control devices expected to be used on the contract using the standard Source of Supply template prior to the preconstruction meeting. Written approval must be received prior to the commencement of work.
40. All shoulder or travel lane closures shall be performed at times directed by the Engineer with direction from the Canal District Safety Officer. Any deviation from the time restriction must be approved by the Canal District Engineer and Canal District Safety Officer prior to the commencement of work.
41. No lane closures will be permitted on holidays or holiday weekends, unless approved by the Engineer with consultation with DelDOT Safety Section. This requirement applies to all roads impacted in this Contract.
42. If a road/ramp closure is required, the Contractor shall be required to submit the proposed detour route to the DelDOT Safety Officer for approval. Payment for detour plan preparation shall be included in the bid price for Item 763000 (Initial Expense / Demobilization). The Department will coordinate with the Safety Section and be responsible for the necessary notifications. The detour route requires approval by the Department prior to closure. A two-week detour review lead time shall be required for any requested detour. The Contractor shall be responsible for providing and maintaining the Maintenance of Traffic apparatus at the closure (i.e. Type III Barricade, Road Closed signs, etc.) and all signs. The Contractor shall be responsible for placement of detour trailblazers. Payment will be under Item 810001 (Temporary Warning Signs and Plaques). Signs that are required to be in place for longer than 72 consecutive hours need to be permanently mounted. Payment for mounting/take down of permanently mounted signs will be paid for under Item 819003 – Install or Remove Traffic Signs. 819003 will be paid once and it includes all costs associated with removal and take down of the detour/traffic sign. Signs on skids/windmasters or signs attached to existing infrastructure are not considered permanently mounted and shall not be eligible for payment under Item 819003.
43. The Engineer shall be responsible for coordinating with the Traffic Section relating to any impacts to Traffic Section facilities (including but not limited to traffic loops, junction wells, etc.) at least four weeks in advance of the start of the activity. Prior to initiating any work on this contract (or sites), the Engineer shall be responsible for preparing and submitting for approval of the Safety Section, a Maintenance of Traffic Plan. Sufficient time shall be provided for the review and approval of the plan. The Maintenance of Traffic Plan shall include proposed time restrictions on the closure of travel lanes subject to the approval of the Safety Section.

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44. Traffic control devices shall be provided and placed in accordance with the Delaware Manual on Uniform Traffic Control Devices (MUTCD). The Contractor shall prepare and submit a Traffic Control Plan for each site to DelDOT for approval. The Traffic Control Plan must clearly indicate orientation of traffic control devices to be used for each site. The plan must be approved by the DelDOT Safety Officer and DelDOT Engineer prior to commencement of work on each location. Maintenance of Traffic Typical Applications is described in the Delaware MUTCD. The Contractor shall be responsible for determining the applicable Typical Application for each work application. The proposed Traffic Control Plan must be submitted to DelDOT a minimum of ten (10) working days prior to commencement of work at each location.
45. No lane closures or shoulder closures will be permitted unless applicable work activity is taking place.
46. All repair/maintenance equipment shall be removed from the job sites daily, except when approved by the Engineer. Contractor shall follow guidelines set forth by the Delaware MUTCD for storage of materials.
47. The Contractor shall be required to have an American Traffic Safety Services Association (ATSSA) certified Traffic Control Supervisor on the project. The ATSSA supervisor may be the Contractor's general superintendent for this project or another ATSSA certified member of the Contractor's project staff. The ATSSA certified Traffic Control Supervisor's responsibility shall be the maintenance of traffic throughout the project. This responsibility shall include, but is not limited to, the installation, operations, maintenance, and service of temporary traffic control devices. Also required is the daily maintenance of a log to record maintenance of traffic activities, i.e. number and location of temporary traffic control devices, and times of installation, changes, and repairs to temporary traffic control devices. He/she shall also serve as the liaison with the Department concerning the Contractor's maintenance of traffic. The name and contact information for the ATSSA certified Traffic Control Supervisor shall be provided to the Engineer at the Preconstruction Meeting. A copy of the certifications for the ATSSA certified Traffic Control Supervisors proposed for the project shall be submitted to the Department with the Contractor's bid package. The responsibilities of the ATSSA certified supervisor shall be for the duration of the Open-End Contract. Payment for the ATSSA certified traffic control supervisor shall be under Item 763000 (Initial Expense / Demobilization).
48. No separate payment shall be made for use of traffic cones. Traffic cones and/or work associated with their use, such as set up, removal, cleaning, etc., shall be incidental to the work for which they protect.
49. All open excavations shall be secured with plastic drums with retroreflective fluorescent orange and white prismatic sheeting. If the construction activity results in a vertical difference along, adjacent to, or across a travel way, the Contractor shall eliminate or remedy this hazard by the

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methods detailed in Table 6G-1 of the Delaware Manual on Uniform Traffic Control Devices (DEMUTCD), or as directed by the Engineer.

50. Payment for relocation and re-positioning of Traffic Control devices shall be incidental to the respective pay items included in this Contract. There shall be no additional compensation for relocation or re-positioning of traffic control devices.
51. Costs for adjustment in position of traffic control devices due to variances from the standard Maintenance of Traffic (MOT) typical application numbers, or for any other reason, shall be included in the unit price for each respective MOT pay item.
52. The safety measures outlined within this Contract and the Delaware MUTCD are not necessarily sufficient in every instance to guarantee the protection of the traveling public or the persons working on the project. Therefore, the provisions of this Contract do not relieve the Contractor of the sole responsibility for the safety of all persons working within or traveling through the work zone throughout the duration of the project. The Contractor shall implement any additional safety measures that are not expressly required by the Contract and are necessary to ensure the safety of all persons. The Contractor shall submit to the Engineer justification for deviations from the Traffic Control Plan or Traffic Management Plan. Final approval of the deviations or additions shall rest with the Engineer with guidance from the Traffic Safety Section. All costs for this work shall be incidental to the applicable pay items as listed in the original contract.
53. The Department reserves the right to stop the Contractor's operations, if in the opinion of the Engineer the Contractor's operations are not in compliance with the Delaware MUTCD, the specifications, or the Plans. The Department also reserves the right to stop the Contractor's operations if the Engineer deems the operations to be unsafe.
54. The Department will not make payment to the Contractor for any and all temporary traffic control devices where the Contractor sets up temporary traffic control to perform work but fails to perform any work.
55. Immediately prior to the implementation of any lane or roadway closures, the Engineer shall notify the DelDOT TMC at (302) 659-4600. Notifications shall also be given to the TMC when the closure is lifted. The Engineer shall notify the TMC and the DelDOT Safety Officer if lane closures cannot be removed prior to the end of the allowable work hours.
56. Any deficiencies related to temporary traffic control that are reported to the Contractor in writing shall be corrected within 24 hours or as directed by the Engineer. Corrective actions on severe deficiencies shall be taken immediately unless otherwise directed by the Engineer. Failure to comply will result in non-payment for those devices that are found to be deficient for the duration of the deficiency. Serious deficiencies that are not corrected immediately could result in possible suspension of work until items identified are brought back into compliance and/or the holding of the pay estimate until the serious deficiencies are corrected.

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57. The use of millings and GABC in the travel way, temporary travel way, high volume entrances and access ramp for the purpose of providing a temporary roadway surface, pothole repair, tapered edge for utilities, butt joints, and longitudinal drop-offs (milling and paving operations) is prohibited unless it is otherwise designated to be used in the contract plans. Use cold patch, bituminous concrete, bituminous concrete wedge, or taper mill, as noted in the Contract Documents, or approved by the Engineer. Payment for cold patch, bituminous concrete, or bituminous concrete shall be paid under the bituminous concrete milling item.

Millings or GABC shall be used at the following locations where access to a business residence, or edge drop off needs to be maintained unless otherwise noted in the plans or directed by the Engineer to use bituminous concrete or cold patch. All milling and GABC will be rolled and compacted to help prevent the material from unraveling.

- a. Driveways
- b. Entrances
- c. Low volume access ramps (Identified in the contract documents)
- d. Edge drop-offs adjacent to live roadway (lane, shoulder, or turn lane) and the proposed road construction
- e. Edge of roadway drop-off

Grading and maintaining base course that is being used for roadway wedge/fillet between travel lanes and pavement box, edge of travel way, driveway or entrance access shall be incidental to the contract. The base course material shall be placed at no greater than the slope specified in table 6G-1 and shall be compacted. Excess base course material shall be pushed ahead and used in the next segment and shall be incidental to the particular base course pay item. No separate payment shall be made for Millings or GABC temporary roadway material (TRM) used to protect edge drop-offs, unless the material is eventually utilized as part of a permanent roadway at which time the material would be paid for under the respective contract material item. Vertical differences shall be corrected in accordance with table 6G-1 of the Delaware MUTCD.

58. If the Contractor does not complete the contract work within the contract completion time as listed on the Work Order (including approved time extensions), the Contractor shall be responsible for providing the necessary temporary traffic control devices that are required to complete any remaining work. The cost of such temporary traffic control shall be borne by the Contractor. No additional payment will be made to the Contractor to maintain traffic in accordance with the Delaware MUTCD, specifications, and these Project Notes. Temporary traffic control items shall include, but not be limited to, warning lights, warning signs, barricades, plastic drums, P.C.C. safety barrier, flaggers, traffic officers, arrow panels, message boards, portable light assemblies and portable impact attenuators.

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59. Pedestrian Maintenance of Traffic: This work shall consist of providing and maintaining an accessible pedestrian route throughout the project's limits in accordance with the Americans with Disabilities Act of 1990 (ADA) Title II, paragraph 35.130.

The contractor shall be required to review each curb ramp location and submit the appropriate maintenance of traffic detail and devices to the Engineer for each location at least 2-weeks before construction for review, comment, and approval.

The following considerations shall be taken into account when addressing accessible pedestrian maintenance of traffic:

- All pedestrians, including persons with disabilities, shall be provided with a reasonably safe, convenient, and accessible path that replicates as much as practicable the existing pedestrian facilities.
- Maintain access to all business and residents at all times.
- Provide pedestrian access thru or around the work zone. If a detour is deemed necessary, the Contractor must submit the detour route to the Engineer for review and approval by the Traffic Safety Section. The detour route must meet or exceed the current conditions.
- Work should be phased so that all areas of an intersection/sidewalk path are not under construction at the same time unless a clear path is provided and identified.
- Traffic control devices and other construction materials and features shall not intrude into the usable width of the sidewalk, temporary pathway, or other pedestrian facility.
- Signs and other devices mounted lower than 7 ft above the temporary pedestrian pathway shall not project more than 4 in. into accessible pedestrian route.
- A smooth, continuous hard surface shall be provided throughout the entire length and width of the pedestrian route throughout construction.
- There shall be no curbs or vertical elevation changes greater than ¼ in. in grade or terrain that could cause tripping or be a barrier to wheelchair use.

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QUANTITY SUMMARY

ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
202000	EXCAVATION AND EMBANKMENT	C.Y.	19
204000	TEST HOLE	C.Y.	24
209004	BORROW, TYPE C	C.Y.	25
211001	REMOVAL OF PCC PAVEMENT, CURB, AND SIDEWALK	S.Y.	25
211002	REMOVAL OF GUARDRAIL AND FENCE	L.F.	802
301001	GABC	C.Y.	13
401030	SUPERPAVE TYPE B, PG 64-22 PATCHING	TON	5
720004	STEEL RAIL ELEMENT, STRAIGHT	L.F.	25720
720005	STEEL RAIL ELEMENT, CURVED	L.F.	1275
720006	GALVANIZED STEEL POSTS	EACH	1188
720007	SHORT WOOD BREAKAWAY POST, TREATED	EACH	42
720009	TERMINAL CONNECTOR, BRIDGE AND BARRIER	EACH	14
720010	GALVANIZED RAIL ELEMENT, THRIE BEAM	EACH	54
720011	GALVANIZED TRANSITION SECTION, THRIE BEAM	EACH	4
720012	GALVANIZED STEEL POST, THRIE BEAM	EACH	5
720013	GALVANIZED STEEL BRACKET, THRIE BEAM	EACH	5
720019	GALVANIZED STEEL POST, 8'	EACH	90
720020	GUARDRAIL REFLECTOR	EACH	550
720021	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	L.F.	199
720022	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	L.F.	13
720025	GUARDRAIL OVER CULVERTS, TYPE 2-31	EACH	3
720026	GUARDRAIL OVER CULVERTS, TYPE 3-31	EACH	3
720032	REMOVE AND RESET GALVANIZED STEEL POST AND OFFSET BLOCK	EACH	50
720033	OFFSET BLOCKS	EACH	1762
720500	GALVANIZED FUSION BONDED POLYESTER COATED GUARDRAIL	L.F.	567
720509	IMPACT ATTENUATOR, TYPE 1, LEVEL II REPAIR	EACH	10
720595	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1 LEVEL 1 REPAIR	EACH	34
720596	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1, LEVEL 2 REPAIR	EACH	24
720597	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 2, LEVEL 1 REPAIR	EACH	5
720598	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 2, LEVEL 2 REPAIR	EACH	3
720600	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 3, LEVEL 2 REPAIR	EACH	3
720601	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 3, LEVEL 1 REPAIR	EACH	3
720608	IMPACT ATTENUATOR, TYPE 1, LEVEL I REPAIR	EACH	3
720614	IMPACT ATTENUATOR, TYPE 1, LEVEL III REPAIR	EACH	3

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720663	GUARDRAIL END TREATMENT ATTENUATOR, MINOR REPAIR	EACH	18
721000	GUARDRAIL END TREATMENT, TYPE 1-31, TEST LEVEL 2	EACH	8
721001	GUARDRAIL END TREATMENT, TYPE 1-31, TEST LEVEL 3	EACH	121
721002	GUARDRAIL END TREATMENT, TYPE 2-31, TEST LEVEL 2	EACH	3
721003	GUARDRAIL END TREATMENT, TYPE 2-31, TEST LEVEL 3	EACH	3
721004	GUARDRAIL END TREATMENT, TYPE 3-31	EACH	12
721006	END ANCHORAGE 31	EACH	45
721008	BURIED IN BACK SLOPE	EACH	3
721009	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE 31)	EACH	5
721010	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	EACH	12
721012	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 3-31	EACH	3
722501	HIGH TENSION CABLE BARRIER, POST REPAIR	EACH	1248
722502	HIGH TENSION CABLE BARRIER, END TERMINAL REPAIR	EACH	4
724002	PERMANENT IMPACT ATTENUATOR, TYPE 2	EACH	3
724005	PERMANENT IMPACT ATTENUATOR, TYPE 5	EACH	3
724006	PERMANENT IMPACT ATTENUATOR, TYPE 6	EACH	3
762000	SAW CUTTING, BITUMINOUS CONCRETE	L.F.	247
762001	SAW CUTTING, CONCRETE, FULL DEPTH	L.F.	25
763000	INITIAL EXPENSE/DE-MOBILIZATION	L.S.	1
763507	EMERGENCY MOBILIZATION	EACH	18
802003	ARROW PANEL, TYPE C	EA-DY	208
803001	PROVIDE AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	EA-DY	10
804001	PROVIDE AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	EADY	50
805001	PLASTIC TRAFFIC CONTROL DRUMS	EA-DY	5000
806500	TRAFFIC OFFICERS	HOURL	143
808002	PROVIDE AND MAINTAIN TRUCK-MOUNTED ATTENUATOR, TYPE II	EA-DY	219
810001	TEMPORARY WARNING SIGNS AND PLAQUES	EA-DY	1213
811001	FLAGGER, NEW CASTLE COUNTY STATE	HOURL	104
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	HOURL	9
813001	TEMPORARY BARRICADES, TYPE III	LF-DY	15
819003	INSTALL OR REMOVE TRAFFIC SIGNS	EACH	60.65
908003	TOPSOIL, 4" DEPTH	S.Y.	102
908014	PERMANENT GRASS SEEDING, DRY GROUND	S.Y.	353
908020	EROSION CONTROL BLANKET MULCH	S.Y.	233