THE STATE OF DELAWARE

DEPARTMENT OF TRANSPORTATION
MAINTENANCE AND OPERATIONS
CONSTRUCTION PLANS AND SPECIFICATIONS FOR

WARM MIX AND PCC PATCHING, OPEN END, CANAL DISTRICT, FY 19-FY 21

CONTRACT NUMBER - T201806401.01
FEDERAL AID NUMBER - NONE

PRIMAVERA ID – 18-06401
COUNTY: NEW CASTLE

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PLANS PREPARED BY: Sonya M. LaGrand
DESIGNER

Sonya M LaGrand 9/19/18
DELDOT –CANAL DISTRICT DESIGN ENGINEER DATE
MAINTENACE AND OPERATIONS - (CAD)

SONYA M. LAGRAND
LICENSE
No. 14846
DELAWARE
PROFESSIONAL ENGINEER

THIS SEAL APPLIES TO ALL SHEETS BEARING THE "CAD" SECTION DESIGNATION

APPROVED FOR ADVERTISEMENT

Mike Allen 9/26/18
DIRECTOR OF MAINTENANCE AND OPERATIONS DATE

Contract Description

The purpose of this contract is to repair bituminous and portland cement concrete (PCC) pavement in the Canal District. The Canal District (New Castle County) is composed of DelDOT maintenance areas 9 and 10. Maintenance Area 9 of Canal District extends from the Kent County line northward to the C&D Canal. Maintenance Area 10 extends from the C&D Canal northward to the I-95 corridor/City of Newark limits (see maps on pages 12 and 13).

Work includes saw cutting, milling, removal of existing pavement, placing bituminous pavement, PCC pavement and dowel bars, placing temporary roadway material (TRM), providing maintenance of traffic (MOT) and replacing striping.

The specific work sites are not listed herein, but will be assigned as available by the District via work orders.

This is a calendar day contract that will end three years (1,095 calendar days) from issuance date of Notice To Proceed (NTP).

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Project Notes

1. This project is to be constructed in accordance with Delaware Department of Transportation Standard Specifications dated August 2016 and the Delaware Department of Transportation Standard Construction Details dated 2017, including all revisions up to the date of advertisement.

2. The Contractor and all others shall perform all work in a manner that shall ensure the least practical obstruction to the traveling public. MOT shall conform to the requirements of the latest version of the Manual entitled "Delaware Manual on Uniform Traffic Control Devices For Streets And Highways (DE MUTCD)", in effect at the time of advertisement for bids.

3. 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 Engineer. Any adjustments and/or relocations on municipally owned facilities shall be done by the State's contractor in accordance with the respective agencies' Standard Specifications as directed by the Engineer.

4. No environmental permits are required for this work provided no jurisdictional wetlands or waters are impacted. If there is a question as to whether or not a water or wetland is jurisdictional, contact the DelDOT Environmental Section at 302-760-2264.

5. 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 contractor's project manager to coordinate with DelDOT's inspection representative for this contract to secure such trespass needs and to arrange ROW stakeouts (if needed). The contractor shall not trespass on private property until DelDOT has acquired a "Temporary Trespass Agreement" from the property owner. If the work is within a permanent easement, the work shall not begin until the adjacent property owners have been notified. Prior to starting work, the Contractor shall notify affected property owners of proposed work dates. The Contractor shall provide all residents who live adjacent to the work zone with a minimum 48 hour prior written notice for the start of construction work. This notification shall include the scope of work, working hours, anticipated start and completion dates, contractor name and address, contact phone numbers, and DelDOT contact numbers. Failure to give proper notice will result in suspension of work requiring notice, until proper notice is provided.

6. No work near or within railroad Right-of-Way is anticipated. If any railroad property or facilities are near or within the proposed limits of work or if the proposed work encroaches upon the railroad's Right-of-Way, the contractor shall be responsible for obtaining the required clearances and insurances for each involved railroad in accordance with the appropriate DelDOT Maintenance of Railroad Traffic item. DelDOT's Railroad Section Manager must be contacted at (302) 760-2183 to coordinate

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the execution of the appropriate agreements and authorizations required from any railroad company involved, including coordination for railroad flagging, if necessary.

7. Work located in Municipalities requires Town Agreements. Work in these locations cannot commence before obtaining them. It will be the responsibility of the contractor's project manager to coordinate with DelDOT's inspection representative for this contract to obtain a Town Agreement from DelDOT's TEAM Support at (302) 760-2251.

8. The Contractor shall submit a traffic control plan for approval before the start of the work at each location. Restricted working hours will be in effect on state-maintained roadways (the larger feeder and collector roads) as dictated by traffic volumes. Policy Implement C-09, Appendix A outlines the Typical Time Restrictions based on traffic volumes. Night time hours are 8:00 pm to 5:30 am and must be deemed necessary by Traffic Safety.

9. The Project Manager 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 construction activity. Prior to initiating any work on this contract (or sites), the Project Manager shall be responsible for preparing and submitting for approval of the Traffic 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. Typically, the work shall be done using Typical Application 11A of the MUTCD. Restricted working hours will be included on the work orders.

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If a road closure is required, the Contractor shall be required to submit the proposed detour route to the Traffic Engineer for approval. The Contractor shall coordinate the closure with the Engineer. The detour route must be approved by the Engineer prior to closure. All Traffic Control Devices shall be compliant as per NCHRP Report 350/MASH. The Contractor shall be responsible for furnishing and maintaining the MOT apparatus at the closure (i.e. Type III Barricade, Road Closed signs, etc.) and all advance warning signs. The Contractor shall be responsible for placement of detour trailblazers. If necessary, the Engineer will assign the detour route.

Drums with florescent sheeting will be required in work areas where completion time will extend beyond one daylight operation. For roadways with a posted speed limit of 25 MPH or less, a minimum of three drums with florescent sheeting will be required and warning lights will not be required.

All open excavations shall be secured with plastic drums with florescent sheeting and orange, plastic snow fence. If the construction activity results in a vertical difference or drop-off along, adjacent to or across a travel way, the Contractor shall eliminate or remedy this hazard by the methods detailed in Section 6G.20 of the MUTCD as directed by the Engineer. The snow fence, tie wire, etc. shall be incidental to the work it protects.

10. The Contractor's project manager is responsible for ensuring any required documents and analysis as part of the adopted Work Zone Safety and Mobility Procedures and Guidelines has been completed prior to any work starting on this contract.

11. The Contractor shall protect all driveways from damage due to Contractor's equipment and shall be responsible for all such damage done by Contractor's equipment.

12. Underground utilities may be present at all locations. Therefore, all standard practices and procedures regarding utilities shall be followed. Contractor is required to make Miss Utility calls to have utilities marked-out 48 hours prior to starting work.

13. The work will be scheduled via work orders from the District Maintenance office. Work sites will vary in size. Typically, the work will involve bituminous pavement and/or PCC patching the roadway.

    The work orders will indicate the work to be performed at each site. Any questions pertaining to any locations, during construction, shall be referred to the Engineer or his/her representative.

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14. Prosecution and progress of work:

    The Contractor shall commence work indicated on the work order no later than the third (3rd) day after issuance unless required materials 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.

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

    The work will be scheduled via work orders from the department. Work sites will vary in complexity. The work orders will indicate the work to be performed at each site. Any questions pertaining to any locations, during construction, shall be referred to the Engineer or his/her representative.

    The Contractor shall have up to four (4) active work orders at any one time until all assigned work has been completed. The Contractor shall be required to have simultaneous operations up to the limit of four (4) active work orders. The District will attempt to issue the work orders grouped together by location. The Contractor shall be required to work in multiple areas concurrently to engage in the limit of four (4) work orders simultaneously. The Contractor is required to have a minimum of three viable working crews readily available to work on this contract unless otherwise directed by the Engineer or representative. Each crew is required to have a qualified superintendent as outlined in Section 105.07 of the Standard Specifications and at least two (2) qualified equipment operators.

Failure to complete assigned work orders in the calculated time constitutes "Failure to Pursue the Work" and subjects the Contractor to liquidated damages as outlined in Subsection 108.09 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 108.09 of the Standard Specifications and based on the total value of that work order.

A final inspection will be performed in accordance with Subsection 105.16 of the Standard Specifications on each work order and if the work is satisfactorily completed it will be accepted by the department. When seeding is required on the work order, a full stand of grass will be required. The stand shall be established for a minimum of seven days prior to final inspection.

15. Each work order shall be considered a separate unit of work. The Engineer will make payment monthly for the completed invoices as outlined in Section 109.07.

Upon the substantial completion of the work at an individual location, the Engineer will stop time at that location and perform a semi-final inspection for the work order location in accordance with Subsection 105.16. If the work is satisfactorily completed, the Engineer will release the Contractor from maintenance responsibility for that location. The Engineer reserves the right to require the Contractor to add work or make repairs to completed locations at the Engineer's expense 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 Final Inspection.

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

16. The following changes to the Standard Specifications are applicable to this contract:

(a) Delete Section 104.06 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 satisfactory 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 104.06 of the DelDOT Standard Specifications dated August 2016 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 no 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 to perform the work under Force Account provisions of Subsection 109.04. The Contractor will proceed immediately with the work so ordered and such direction shall neither invalidate the Contract, nor release the surety.

(b) Under subsection 108.02. A progress schedule will not be required prior to the preconstruction meeting for the contract.

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17. When patching is required, the removal of pavement material (bituminous pavement, graded aggregate base course, etc.) shall be paid for under Section 402, Bituminous Pavement Materials, Patching. For patches needed to work on pipe crossings, material removed below the pavement box will be paid for by Section 202 of the Standard Specifications. For patches needed to work on structures, removal of material below the pavement box will be negotiated or performed by Force Account procedures.

18. All additional work shall be performed by contract unit prices. In the case where contract prices are not available, prices are to be negotiated or performed by Force Account procedures.

19. At the discretion of the Engineer or representative, there may be periodic winter shutdowns due to inclement weather, low temperatures, or supplier equipment change over. During winter shutdowns, time charges will be suspended.

20. All flaggers utilized by the Contractor for this project shall be ATSSA certified. All flaggers shall have certification cards with them while working. Absence of a certification card will be justification for flagger dismissal from the site and corresponding suspension of work. All construction and Contractor vehicles and self-propelled equipment shall be equipped with an operating roof mounted amber flashing light.

21. The location of the work to be performed shall be designated by mobilization and paving surcharge zones. The zone limits are depicted on numbered zone maps (see pages 15 through 19 of these contract plans). The boundaries of the zones are roads, rivers, county lines and other natural boundaries.

The Department expects to issue work orders such that when one location is completed, the Contractor can immediately move to the next location. The Department will make every attempt to minimize the distance between locations. When a work

order contains a divided highway where work is to be done on both directions of the highway, the work shall be considered continuous and the Contractor will be paid one mobilization.

One mobilization fee shall be paid for each location, except when another location or work order can be completed without using a trailer to transport the equipment (i.e. paver, roller, miller). This determination shall be agreed upon by the Contractor and Department prior to mobilization.

22. All required maintenance of traffic warning signs will be paid under Item 810001, Temporary Warning Signs and Plaques. All warning signs shall be diamond-shaped (square with one diagonal vertical) with a black legend and border on a yellow background. Warning signs shall be designed in accordance with the sizes, shapes, colors and legends contained in Section 1A.11 of the Delaware MUTCD manual (see www.deldot.gov website for copy). A fluorescent yellow background should be used for overhead warning signs.

23. 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.

24. Butt joints shall be placed at all intersecting bituminous pavement roads and any other locations as directed by the Engineer. Butt joints at railroad crossings and at bridge or drainage structures not to be resurfaced shall be as per the included plan detail. Butt joints cut prior to the day of the pavement overlay shall be ramped with TRM. Pavement milling material will not be allowed for this purpose. Butt joints, in full mill areas as well as removal and cleanup of the bituminous pavement residue wedge left from roto-milling operations shall be negotiated or performed by Force Account procedures.

25. Taper mill means milling in the area of fixed structures where the milled depth at the structure will be below the existing elevation the depth of the proposed overlay and zero inches at 6 feet +/- away from the structure. Milled depth computation will be the average of these two. Taper milling will be paid under Item 760010 Pavement Milling, Bitimunous Concrete (sy/in).

26. All excavated and milled material shall remain the property of the Contractor.

27. The Contractor, with the Engineer or his/her representative, shall inventory all signs on all roads subject to improvements. Necessary signs shall be maintained in operation during construction and any other signs shall be properly stored with the Contractor, who shall be responsible for loss or damage. Immediately prior to final inspection, the Contractor and Engineer shall again inventory the traffic signs and account for any lost or damaged signs.

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28. The Contractor shall take care in removing pavement around utilities, butt joints, curb edges and other objects to be paved around when cleaning after a milling operation. Care should be taken so as not to dig deeper than the required depth. Failure to do so will result in the Contractor placing leveling courses at his/her own expense.

29. The removal of existing raised pavement markers (RPM's) shall be incidental to the applicable milling or patching item. The replacement of RPM's (new housing and lens) shall be paid under item 817027 Raised/Recessed Pavement Marker.

30. Before the start of a day's milling or paving operations, and where there is existing striping, the Contractor shall be required to provide proof that enough material of an approved striping method is available onsite to ensure striping is complete before traffic is allowed on the roadway.

31. For work locations in this contract, a PCC patch thickness of 9.0" (+/- 1 inch) should be assumed. Additional thickness can be paid using Item 503503 – Patching Concrete.

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32. All milled patch areas must be backfilled with B.C.B.C. the same day. The Engineer may allow the Type C to be placed the next day depending on quantities at a given location.

33. When a location is designated for night time paving operations, all paving work, pavement milling, patching, and restoration shall be performed at night during the hours set by the Engineer (see note #8).

34. Time to perform the work assigned per work order shall be developed by the following method and items:

Bitiminous Pavement Patching

LEGEND: A= TONS OF TYPE "C" WARM-MIX PATCHING IN WORK ORDER.
B= SQUARE YARDS PER INCH OF MILLING IN WORK ORDER.
C= SQUARE YARDS PER INCH OF WARM-MIX PATCHING IN WORK ORDER.
D= TONS OF BCBC PATCHING IN WORK ORDER.
T= TIME ALLOWED TO PERFORM JOB ORDER ROUNDED UP TO THE NEXT WHOLE WORKING DAY.

FORMULA:

$$T = \frac{A}{125\ t} + \frac{B}{2{,}000\ sy/in} + \frac{C}{2{,}000\ sy/in} + \frac{D}{125\ t}$$

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SAMPLE CALCULATION:

A= 126 TONS
B= 1,976 SQUARE YARDS PER INCH
C= 2,125 SQUARE YARDS PER INCH
D= 116 TONS

$$T = \frac{126}{125} + \frac{1{,}976}{2{,}000} + \frac{2{,}125}{2{,}000} + \frac{116}{125}$$

$$T = 1.008 + 0.988 + 1.0625 + 0.928$$

$$T = 3.9865 = 4 \text{ WORKING DAYS}$$

PCC Patching

LEGEND: A= SQUARE YARDS (SQ) OF PCC PATCHING IN WORK ORDER.
B= LINEAR FEET (LF) OF FULL DEPTH PCC SAWCUT IN WORK ORDER.
T= TIME ALLOWED TO PERFORM JOB ORDER ROUNDED UP TO THE NEXT WHOLE WORKING DAY.

FORMULA:

$$T = \frac{A}{56\ SY} + \frac{B}{504\ LF}$$

SAMPLE CALCULATION:

A= 80 SQUARE YARDS
B= 56 LINEAR FEET

$$T = \frac{80\ SY}{56\ SY} + \frac{288\ LF}{504\ LF}$$

$$T = 1.43 + 0.57$$

$$T = 2.0 = 2\ \text{WORKING DAYS}$$

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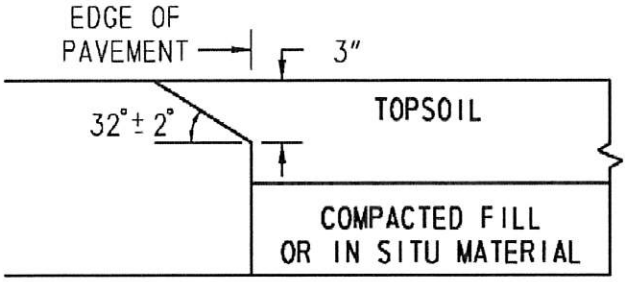
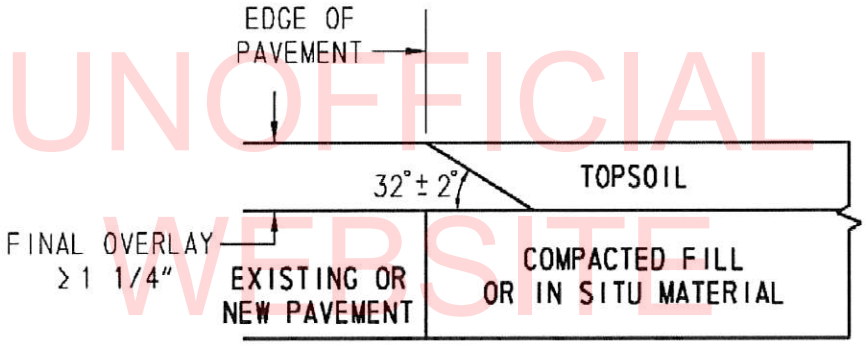
Daytime restricted work hours may be required on some job orders. The time for these locations shall be increased by fifty percent (i.e. 10 working days will become 15 working days).



CONCRETE PAVEMENTS
N. T. S.



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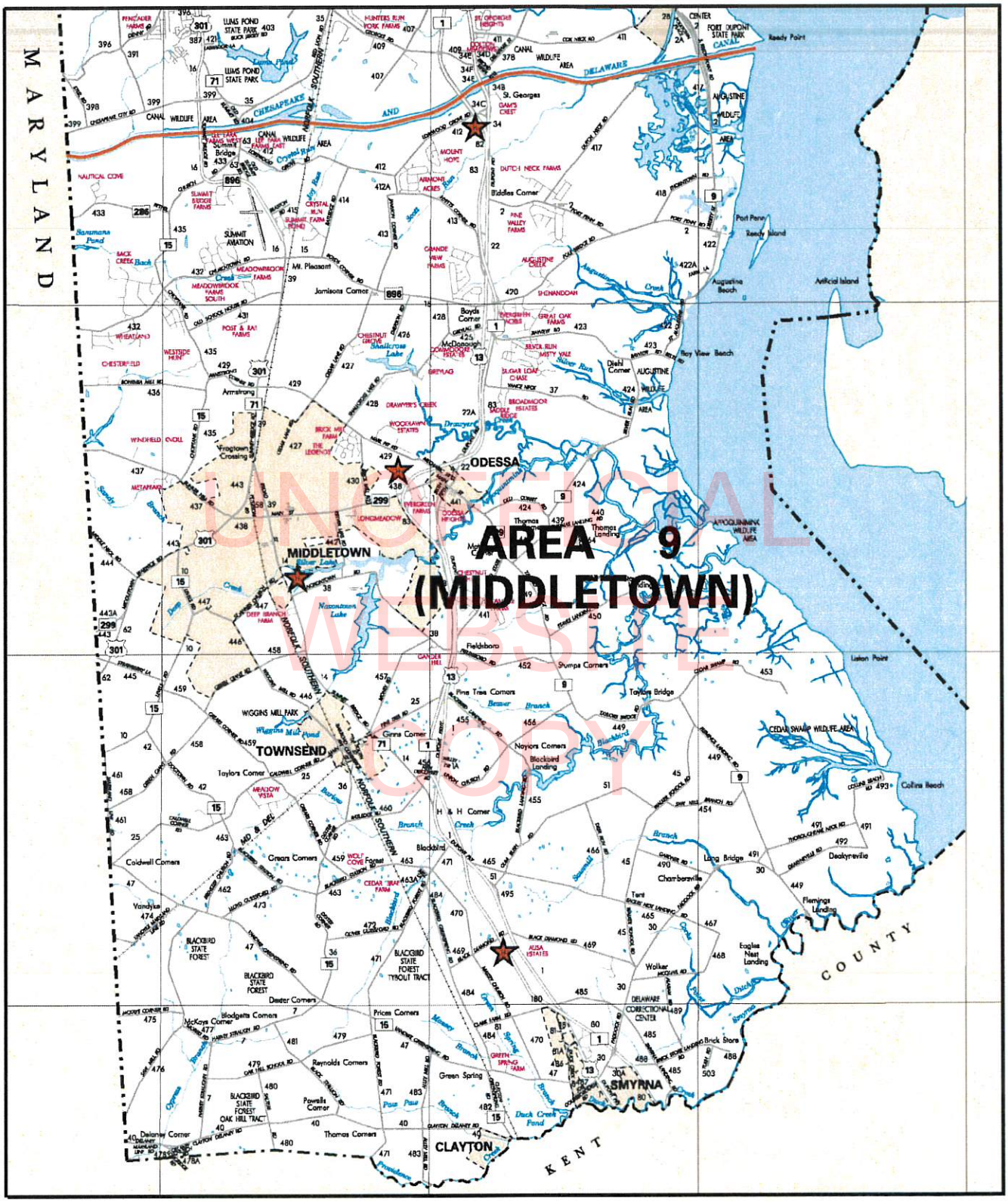
BITUMINOUS CONCRETE PAVEMENTS AND OVERLAYS
N. T. S.

SAFETY EDGE DETAIL


AREA 9
(MIDDLETOWN)
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DELAWARE
ODESSA
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TOWNSEND
SMYRNA
CLAYTON
KENT COUNTY
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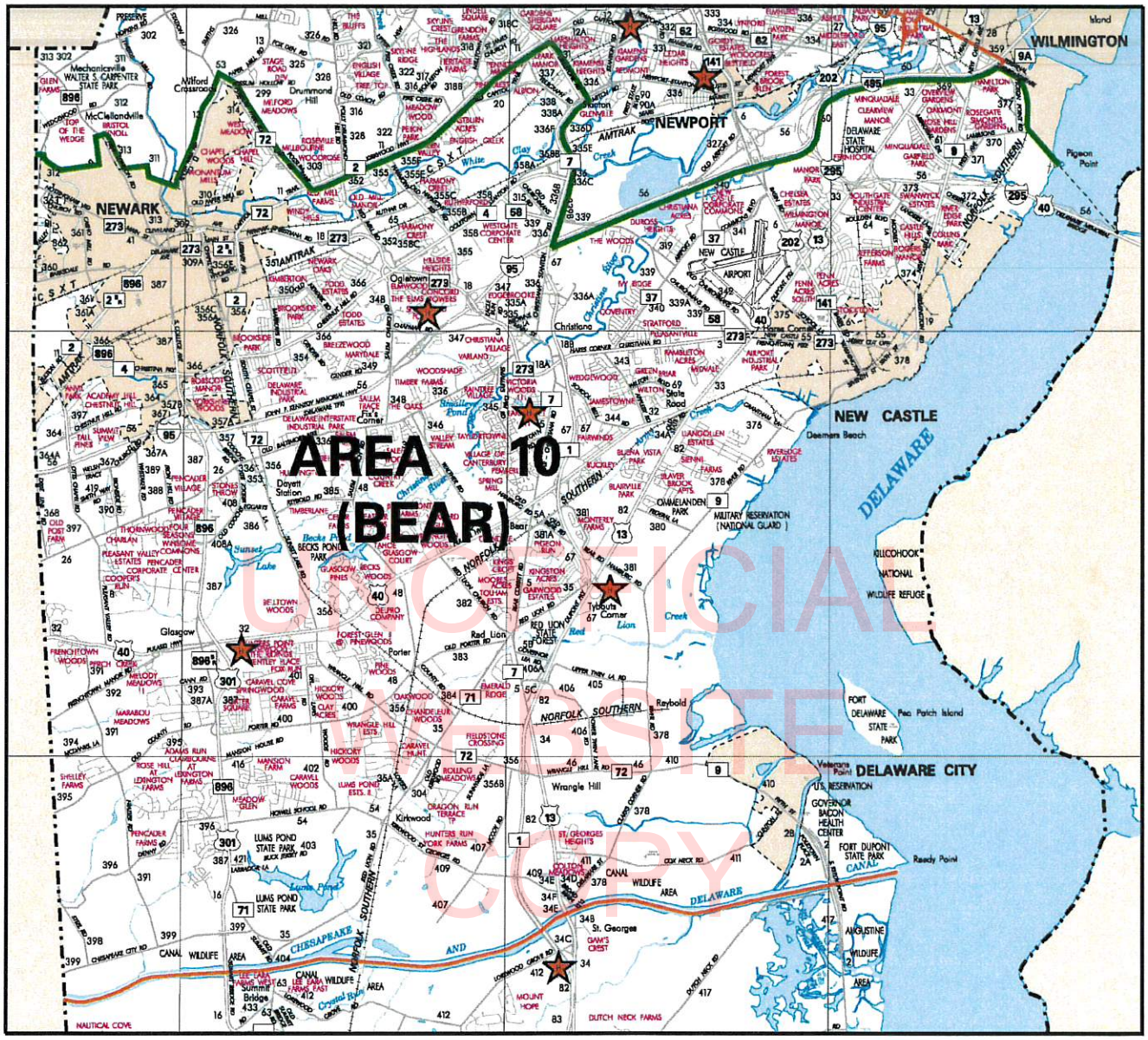

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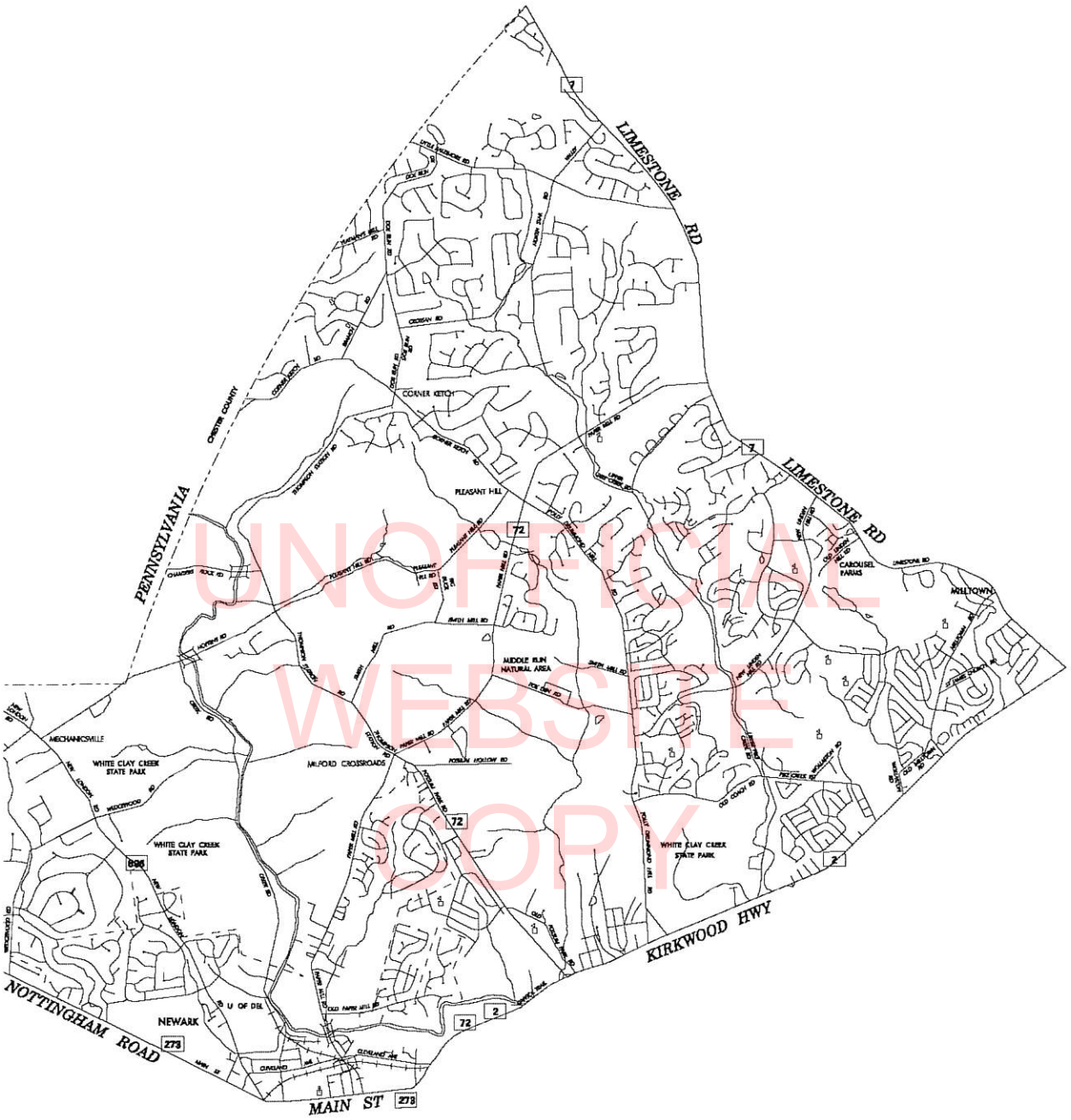

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MOBILIZATION ZONE - 3

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MOBILIZATION ZONE - 6

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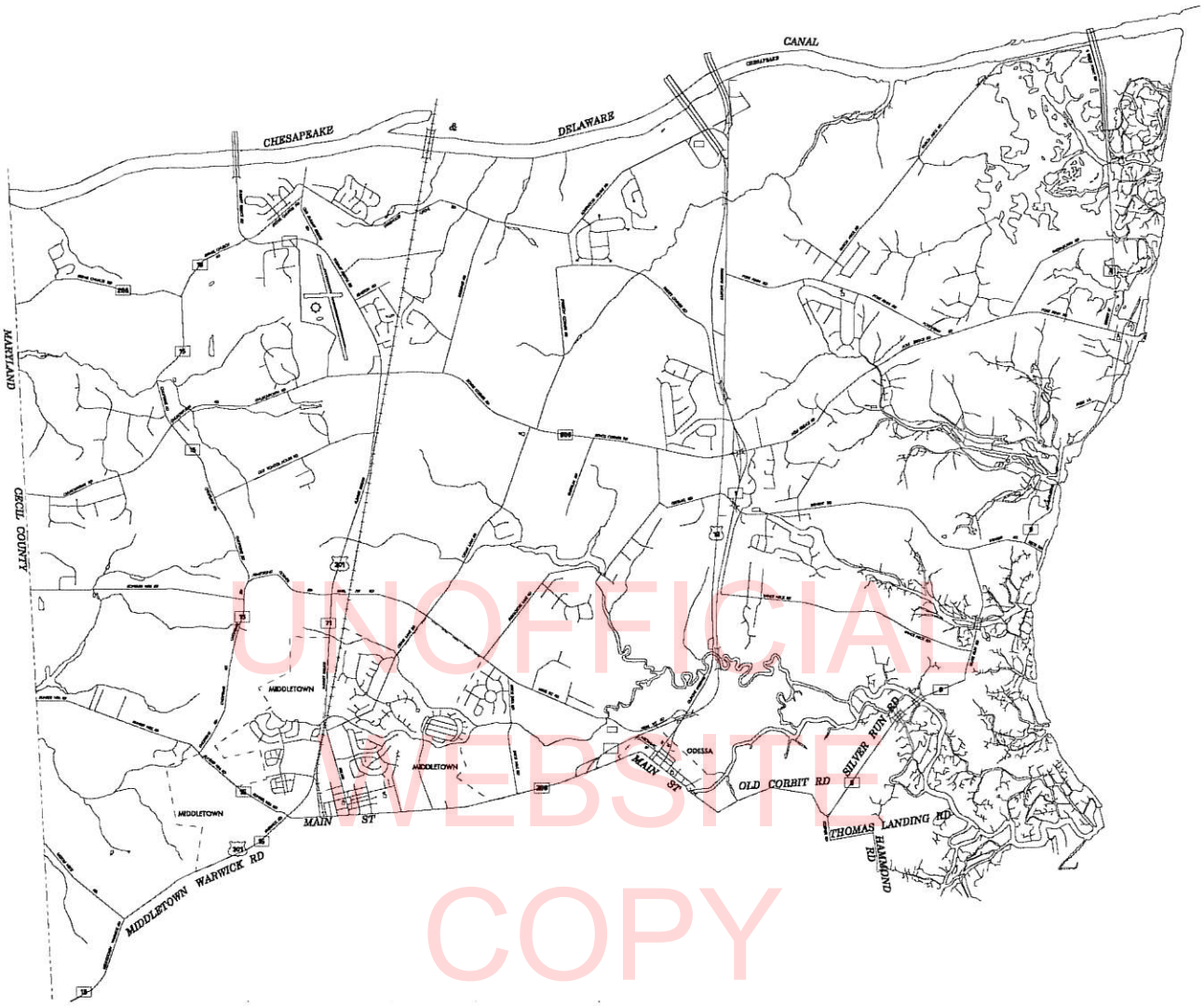
MOBILIZATION ZONE - 7



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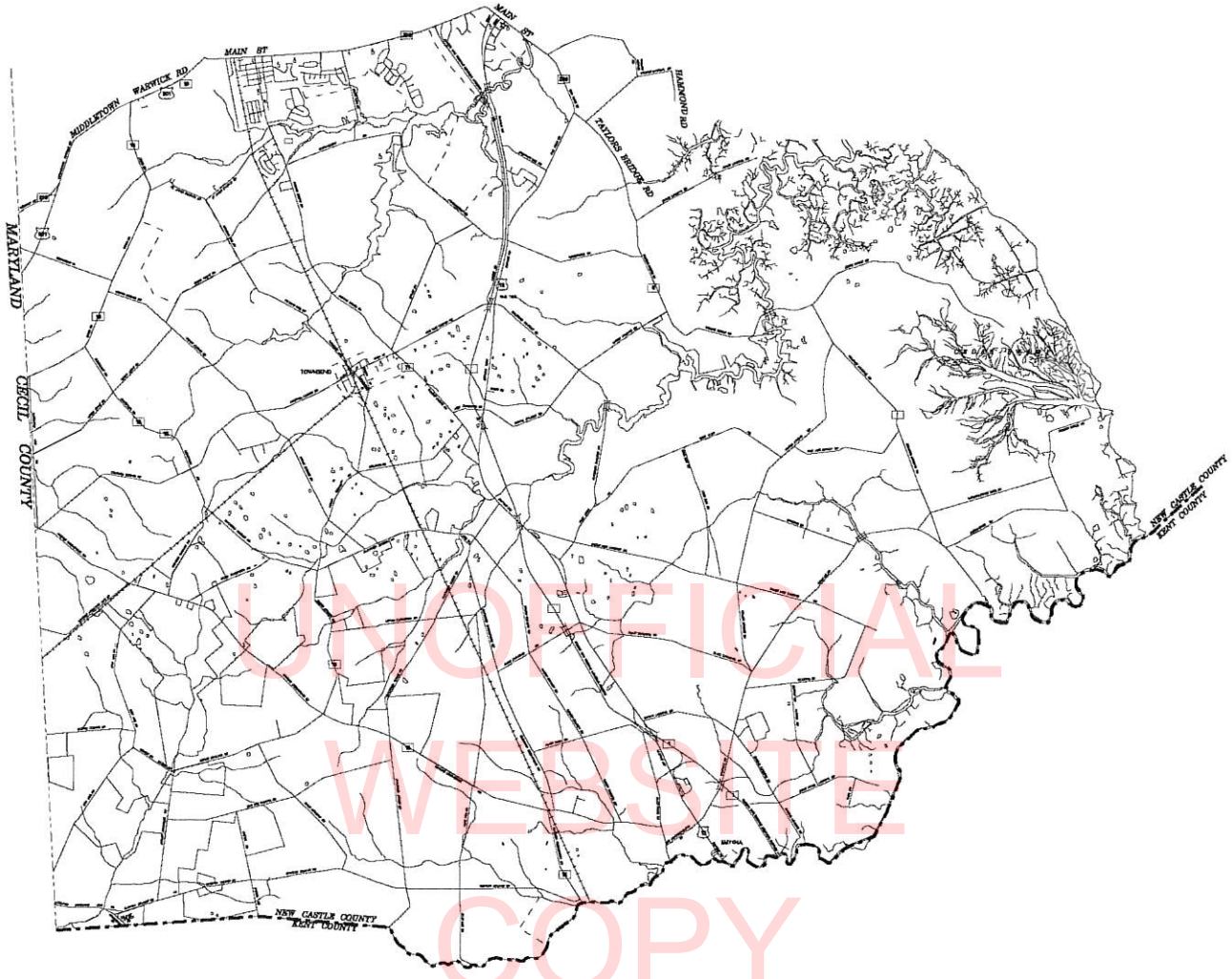
MOBILIZATION ZONE - 8



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MOBILIZATION ZONE – 9

Quantity Summary

Item	Description	Unit	Quantity
202004	UNDERCUT EXCAVATION, PATCHING	C.Y.	140
211001	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB SIDEWALK, ETC	S.Y.	490
301001	GRADED AGGREGATE BASE COURSE, TYPE "B"	C.Y.	210
401031	SUPERPAVE, TYPE BCBC, PG 64-22, PATCHING	TON	15,000
401036	SUPERPAVE, TYPE C, PG 64-22, WEDGE	TON	350
401037	SUPERPAVE, TYPE B, PG 64-22, WEDGE	TON	350
401044	SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22	TON	12,000
401045	SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22	TON	6,000
401755	RECYCLED ASPHALT PAVEMENT MILLINGS FOR ROADWAY EDGE	TON	140
402000	BITUMINOUS CONCRETE PATCHING	SY-IN	600,000
403000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	TON	30
503001	PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE "A"	S.Y.	1,000
503002	PATCHING P.C.C. PAVEMENT 15' TO 100', TYPE "B"	S.Y.	500
503006	DOWEL BARS	EACH	1,400
503503	PATCHING CONCRETE	SY-IN	350
504001	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	L.F.	15,750
504002	CRACK AND JOINT SEALING 3/4" TO 1 3/4" WIDE	L.F.	4,550
505000	P.C.C. PATCHING, PARTIAL DEPTH	SY-IN	210
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	EACH	20
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	EACH	10

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Item	Description	Unit	Quantity
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	LF	700
710002	ADJUST WATER VALVE BOXES	EACH	14
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE	SY-IN	59,000
762000	SAW CUTTING, BITUMINOUS CONCRETE	L.F.	12,250
762001	SAWCUTTING CONCRETE, FULL DEPTH	L.F.	3,500
762004	BUTT JOINTS	S.Y.	350
763000	INITIAL EXPENSE/DE-MOBILIZATION	L.S.	1
763510	PERFORMANCE AND PAYMENT BOND	L.S.	1
763546	ROAD LOCATION MOBILIZATION, ZONE 3	EACH	14
763549	ROAD LOCATION MOBILIZATION, ZONE 6	EACH	14
763550	ROAD LOCATION MOBILIZATION, ZONE 7	EACH	14
763551	ROAD LOCATION MOBILIZATION, ZONE 8	EACH	14
763552	ROAD LOCATION MOBILIZATION, ZONE 9	EACH	14
802003	ARROWPANELS, TYPE C	EA-DY	90
803001	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	EA-DY	490
804001	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	EA-DY	88
805001	PLASTIC DRUMS	EA-DY	10,500
806001	TRAFFIC OFFICERS	HOUR	350
808001	FURNISH AND MAINTAIN TRUCK-MOUNTED ATTENUATOR, TYPE I	EA-DY	40
808002	FURNISH AND MAINTAIN TRUCK-MOUNTED ATTENUATOR, TYPE II	EA-DY	70
810001	TEMPORARY WARNING SIGNS AND PLAQUES	EA-DY	1,540
811001	FLAGGER, NEW CASTLE COUNTY, STATE	HOUR	1,500

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Item	Description	Unit	Quantity
811013	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	HOUR	150
813001	TEMPORARY BARRICADE, TYPE III	LF-DY	350
817001	PAINTING OF WHITE OR YELLOW, SYMBOL/LEGEND	S.F.	420
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	S.F.	1,400
817003	TEMPORARY MARKINGS, PAINT, 4"	L.F.	140,000
817012	RETROREFLECTIVE PERFORMED PATTERNED MARKINGS, SYMBOL/LEGEND	S.F.	40
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	L.F.	175,000
817014	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	L.F.	2,940
817026	PAINTING OF WHITE OR YELLOW, 5" LINE	L.F.	8,400
817027	RAISED/RECESSED PAVEMENT MARKER	EACH	280
846001	FURNISH AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBINGIN A LOOP SAWCUT	LF	350
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	20
908003	TOPSOIL, 4" DEPTH	S.Y.	700
908014	PERMANENT GRASS SEEDING, DRY GROUND	S.Y.	700

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