

STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION - SOUTH DISTRICT – MAINTENANCE SUPPORT

PLANS AND SPECIFICATIONS FOR:

CONTRACT NO: T201806901 P6: 18-12006

CONTRACT TITLE: CONVERSION ROADS, SOUTH, 2018

PLANS PREPARED BY: MARK HYLBERT (EPS III - ESTIMATOR)

PLANS REVIEWED BY: [Signature] DATE: 8/17/18
MAINT.SUPPORT SUPERVISOR

<p>DATE RECOMMENDED: <u>August 17, 2018</u></p> <p>ASSISTANT MAINT. ENGINEER: <u>[Signature]</u></p>	
<p>DATE RECOMMENDED: <u>08.17.18</u></p> <p>MAINTENANCE ENGINEER: <u>[Signature]</u></p>	
<p>DATE RECOMMENDED: <u>8-20-18</u></p> <p>SOUTH DISTRICT ENGINEER: <u>[Signature]</u></p>	

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

CONTRACT DESCRIPTION

The purpose of this contract is to convert existing surface treated roadways in Sussex County to Bituminous Pavement. The locations are listed below, however the Department reserves the right to add or delete locations and/or quantities with no change in unit prices. The work shall include bituminous overlays with wedging and patching, guardrail upgrades, ADA upgrades, pipe replacements, striping, topsoiling, seeding, mulching, restoration, Maintenance of Traffic (MOT) and any work associated with each location.

The specific work sites are listed below:

Location	Rd Description	From	To	Length
1	S233 (Reynolds Rd)	S16 (Broadkill Rd)	S14 (Coastal Hwy)	2.01 miles
2	S234 (Deep Branch Rd)	S14 (Coastal Hwy)	S233 (Reynolds Rd)	0.28 miles
3	S234B (Draper Rd)	S233 (Reynolds Rd)	S22 (Union St Ext)	0.29 miles
4	S308 (Cordrey Rd)	S309 (William Street Rd)	S310 (Streets Rd)	0.76 miles
5	S309 (William Street Rd)	S24 (John J Williams Hwy)	S308 (Cordrey Rd)	0.51 miles
6	S327 (Dogwood Acres Rd)	S26 (Vines Creek Rd)	S341 (Falling Point Rd)	0.49 miles
7	S346 (Holts Landing Rd)	S347 (Whites Neck Rd)	Gate @ DNREC Property	0.95 miles
8	S346A (Walter Bluff Rd)	S346 (Holts Landing Rd)	Immediately after Entrance to Campground	0.44 miles
9	S375 (Shockley Town Rd)	S376 (Pepper Rd)	S92 (Frankford School Rd)	1.47 miles
10	S380 (Parker Rd)	S60 (Cypress Rd)	S113 (DuPont Blvd)	2.18 miles
11	S380A (Cliff Rd)	S60 (Cypress Rd)	S380 (Parker Rd)	0.17 miles
12	S386 (Polly Branch Rd)	S52 (Lighthouse Rd)	S376 (Main St)	2.37 miles
13	S442 (Homestead Rd)	S431 (Shortly Rd)	S20 (Hardscrabble Rd)	1.11 miles
14	S447 (Johnson Rd)	S62 (E Trap Pond Rd)	S446 (Beaver Dam Branch Rd)	2.67 miles
15	S467 (Taylor Mill Rd)	S468 (Discount Land Rd)	S479 (Fire Tower Rd)	0.94 miles
16	S470 (Camp Rd)	S2 (Sussex Hwy)	S468 (Discount Land Rd)	0.59 miles
17	S484 (Fleetwood Pond Rd)	S20 (Concord Rd)	S46 (Old Furnace Rd)	3.72 miles
18	S588 (University Rd)	S16 (Hickman Rd)	S589 (Greenwood Rd)	0.71 miles
19	S612 (Woodyard Rd)	S4 (Sussex Hwy)	Kent County Line	1.10 miles
			Total	22.76 miles

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 3 OF 53

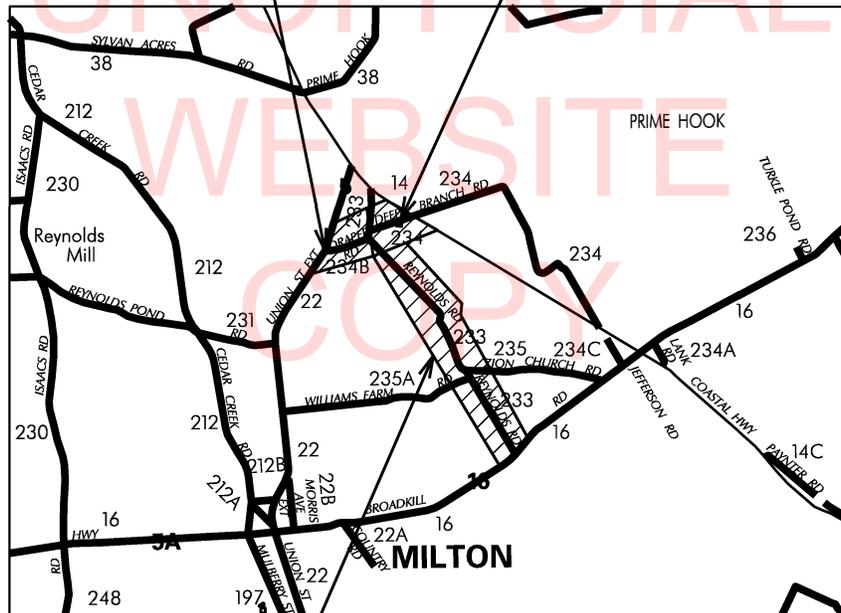
SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

LOCATION MAP - LOCATIONS 1, 2, & 3

LOCATION 3
S234B (DRAPER RD)
FROM: S233 (REYNOLDS RD)
TO: S22 (UNION ST EXT)
0.29 MILES

LOCATION 2
S234 (DEEP BRANCH RD)
FROM: S14 (COASTAL HWY)
TO: S233 (REYNOLDS RD)
0.28 MILES



LOCATION 1
S233 REYNOLDS RD
FROM: S16 (BROADKILL RD)
TO: S14 (COASTAL HWY)
2.01 MILES

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

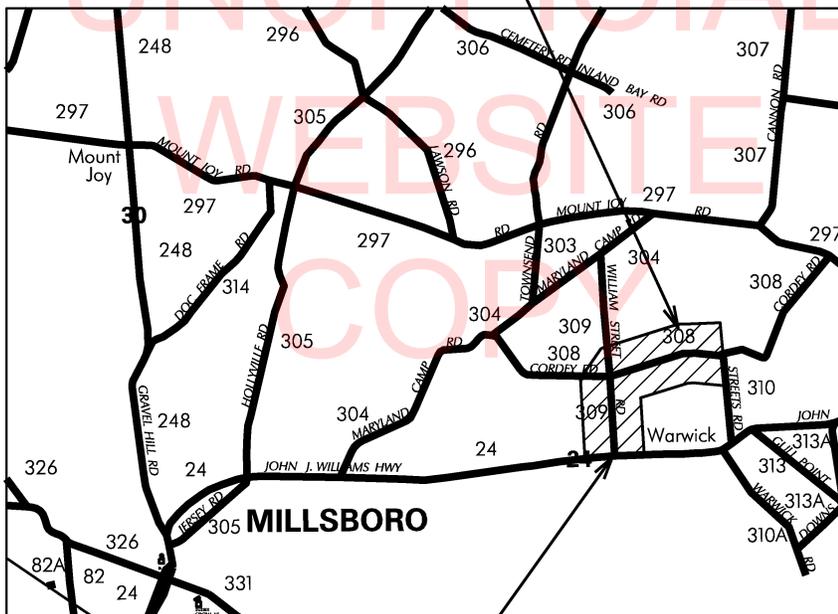
PAGE 4 OF 53

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

LOCATION MAP - LOCATIONS 4 & 5

LOCATION 4
S308 (CORDREY RD)
FROM: S309 (WILLIAM STREET RD)
TO: S310 (STREETS RD)
0.76 MILES



LOCATION 5
S309 (WILLIAM STREET RD)
FROM: S24 (JOHN J WILLIAMS HWY)
TO: S308 (CORDREY RD)
0.51 MILES

DELAWARE DEPARTMENT OF TRANSPORTATION

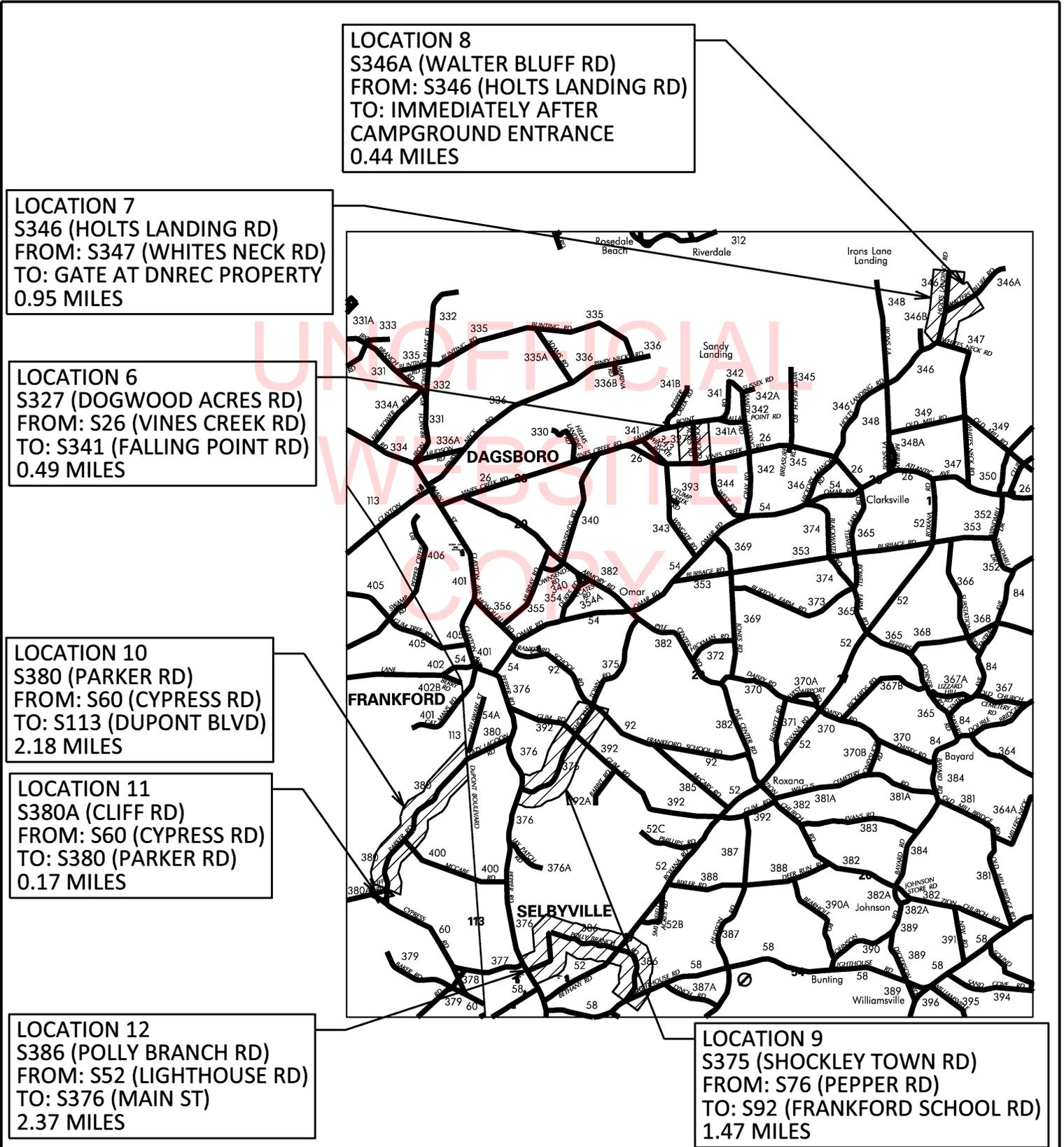
CONTRACT T201806901

PAGE 5 OF 53

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

LOCATION MAP - LOCATIONS 6, 7, 8, 9, 10, 11, & 12



DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

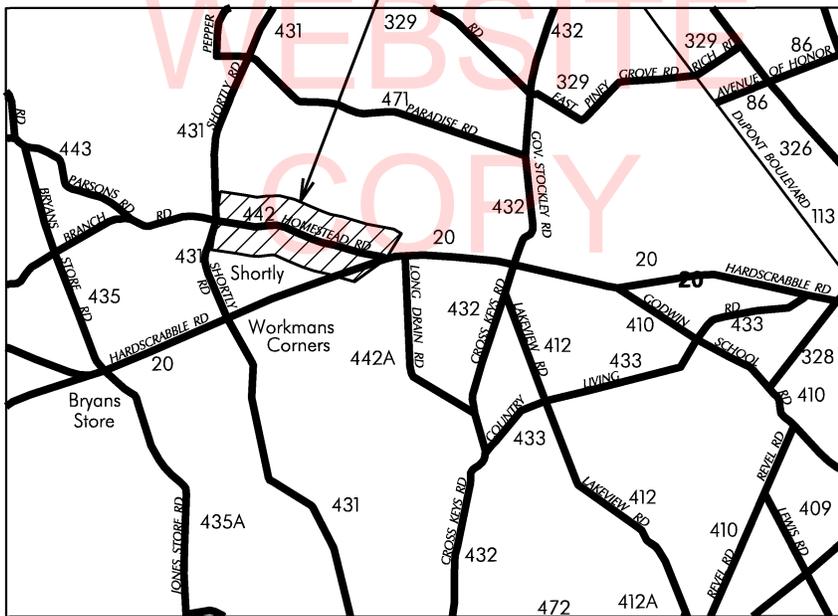
PAGE 6 OF 53

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

LOCATION MAP - LOCATION 13

LOCATION 13
S442 (HOMESTEAD RD)
FROM: S431 (SHORTLY RD)
TO: S20 (HARDSCRABBLE RD)
1.11 MILES



DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 7 OF 53

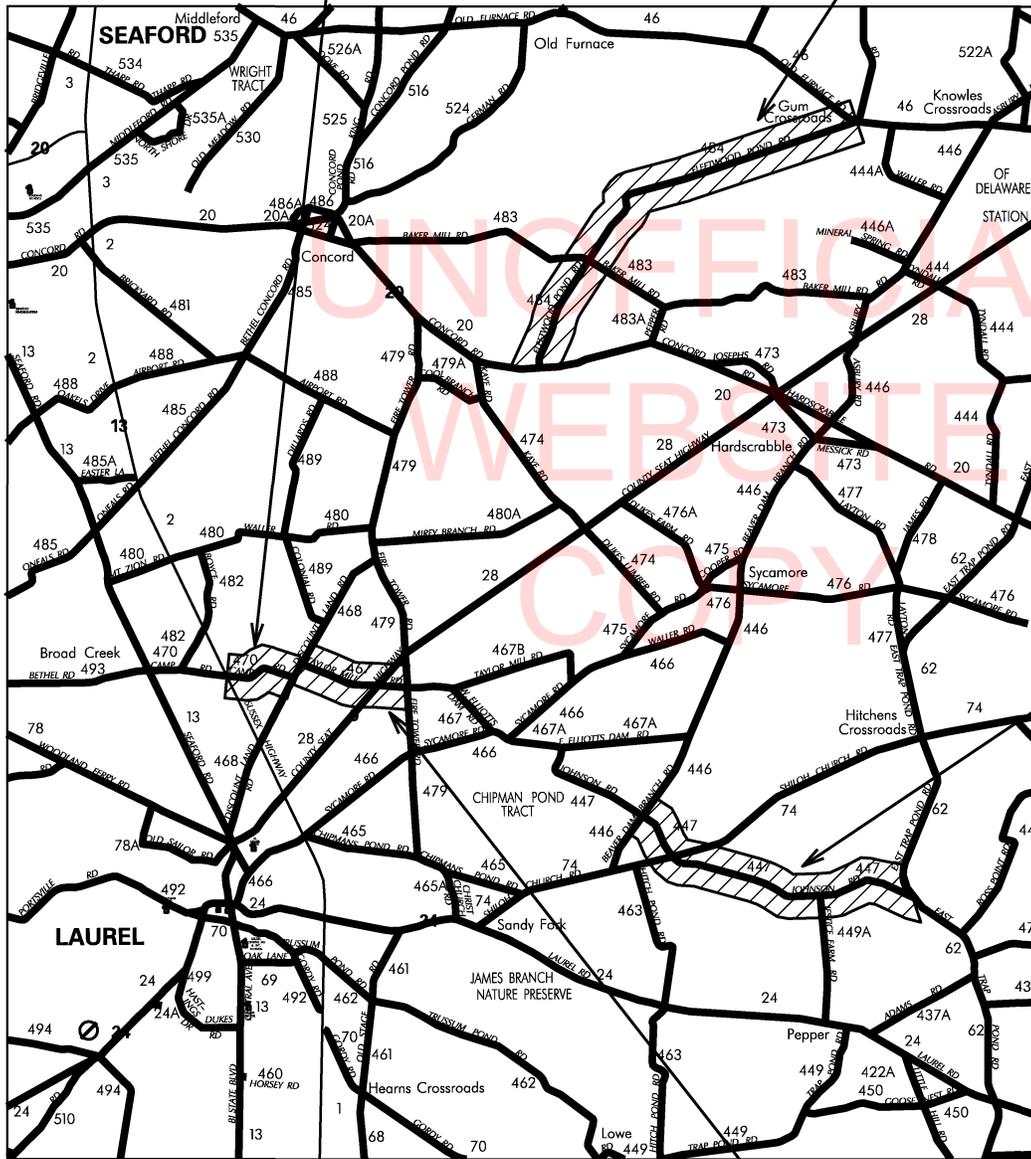
SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

LOCATION MAP - LOCATIONS 14, 15, 16, & 17

LOCATION 16
S470 (CAMP RD)
FROM: S2 (SUSSEX HWY)
TO: S468 (DISCOUNT LAND RD)
0.59 MILES

LOCATION 17
S484 (FLEETWOOD POND RD)
FROM: S20 (CONCORD RD)
TO: S46 (OLD FURNACE RD)
3.72 MILES



LOCATION 14
S447 (JOHNSON RD)
FROM: S62
(E TRAP POND RD)
TO: S446 (BEAVER
DAM BRANCH RD)
2.67 MILES

LOCATION 15
S467 (TAYLOR MILL RD)
FROM: S468 (DISCOUNT LAND RD)
TO: S479 (FIRE TOWER RD)
0.94 MILES

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 8 OF 53

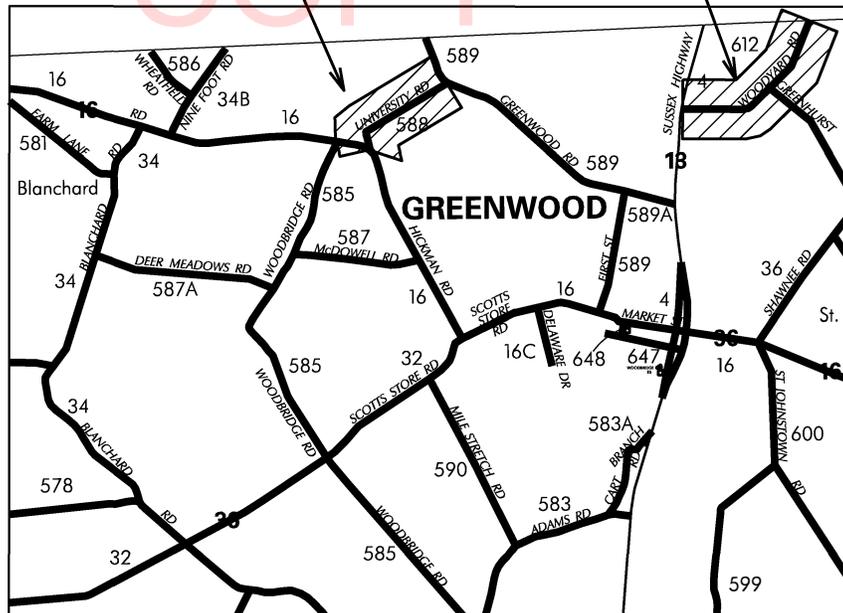
SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

LOCATION MAP - LOCATIONS 18 & 19

LOCATION 19
S612 (WOODYARD RD)
FROM: S4 (SUSSEX HWY)
TO: KENT COUNTY LINE
1.10 MILES

LOCATION 18
S588 (UNIVERSITY RD)
FROM: S16 (HICKMAN RD)
TO: S589 (GREENWOOD RD)
0.71 MILES



DEPARTMENT OF TRANSPORTATION

CONTRACT: T201806901

PAGE 9 OF 53

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

GENERAL CONTRACT NOTES

1. Construction of this contract shall conform to the Delaware Department of Transportation Standard Specifications dated August 2016 as amended by the Supplemental Specifications, the Special Provisions, the most recent Standard Construction Details, the Delaware Manual of Uniform Traffic Control Devices and these plans.
2. In lieu of section 104.06 of the Standard Specifications and depending on fund availability, the Department reserves the right to add or delete quantities to this contract. Such quantity additions or deletions shall not be cause for an increase or decrease in any contract unit bid prices. No item prices are to be renegotiated due to either an increase or decrease in quantity usage resulting from said additions or deletions. Furthermore, the contract shall not expire upon reaching the award amount. Depending on fund availability, the contract amount may be increased or decreased. Any increase or decrease 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.
3. The contractor shall submit the required copies of a detailed progress schedule (PSC) as outlined in Standard Specification 108.04 prior to or at the preconstruction meeting. Details shall include a description of each work activity, the planned days of work, multiple crews or shifts, and scheduled working hours. During the contract, the contractor shall submit two-week (or as required) "look ahead" schedules to the area engineer/ manager no later than noon of each Wednesday. Failure to comply will result in a suspension of all contract work with time charges continuing to be assessed.
4. Location listings indicate general limits of construction, major types of improvements, and estimated quantities. During the bidding period, any questions pertaining to locations shall be directed to contract administration. After the award, such questions shall be referred to the District Engineer or his representative.
5. The Department reserves the right to prioritize, substitute, add, or delete locations at any time during the contract.
6. Any and all construction engineering, including survey and/or layout of pipes, drainage ditches, structures, etc., shall be incidental to the items being installed. The contractor should anticipate the need for construction engineering and bid items accordingly.
7. All work added shall be performed at contract unit prices. In the case where contract unit prices are not available the prices are to be negotiated prior to the commencement of work.
8. The contractor is reminded that section 105.07 of the standard specifications requires the general contractor to have a competent superintendent or foreman on the project at all times.
9. It will be the responsibility of the District to obtain a trespass agreement for any work outside the existing right of way.

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201806901

PAGE 10 OF 53

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

PROJECT NOTES

10. Unless specified in contract notes, overlay widths shall match existing widths, or as directed by the engineer.
11. The cost of clipping back the edges of the roadway, shoulders, and the first 3' of unpaved driveway entrances, picking up and disposing of waste and excess material, and cleaning the existing pavement prior to overlay shall be incidental to section 401. Preparing unpaved driveway entrances beyond the first 3' shall be paid under the appropriate contract items. Crack/joint sealing shall be required at all butt joint locations. The cost for this work shall be incidental as noted in Division 400 of the 2016 Specifications.
12. Butt joints shall be placed at all intersecting bituminous roads and any other locations as directed by the Engineer. All butt joints shall be saw cut. This saw cut shall be incidental to the butt joint item per section 762. A milled vertical edge will not be acceptable.
13. Joint sealing shall also be required at all butt joint locations. The cost for sealing shall be incidental to the butt joint item per section 762 of the 2016 Specifications.
14. Butt joints cut prior to the day of the pavement overlay shall be ramped with warm mix TRM. Warm mix TRM shall be incidental to the corresponding butt joint / milling item. Pavement millings will not be allowed for this purpose. In pavement milling areas, there will be no separate payment for butt joints.
15. After pavement milling, all transverse vertical differences, raised edges of manholes, catch basins, water valve boxes, etc. shall be ramped with warm-mix TRM at a 20:1 or flatter slope prior to opening the roadway to traffic. Pavement millings will not be allowed for this purpose. All TRM shall be incidental to the milling item or other corresponding items.
16. Taper milling is intended for milling in the area of fixed structures (i.e. curbs guardrail, etc.) The milled depth at the structure shall be the depth of the proposed overlay and 0" at a distance of +/- 6½' from the structure. The computed depth for payment purposes is the average of the two depths.
17. All milled material shall remain the property of the contractor unless otherwise stated.
18. A 2.5" overlay shall be 2 equal lifts of 1¼" Type C warm mix. A 3" overlay shall be 2 equal lifts of Type C warm mix. A 3½" overlay shall be a 1¼" Type C lift over a 2¼" Type B lift unless otherwise noted in the plans.
19. The minimum and maximum single lift thicknesses of materials shall be as follows:

-Type C Warm-mix:	1.25" - 2.00"
-Type B Warm-mix:	2.25" - 4.00"
-BCBC:	3.00" - 6.00"
-GABC:	2.00" - 8.00"
20. The purpose of the warm mix wedge course, when specified, is to remove existing excessive crown resulting in a final cross slope of between 2% and 4% or as directed by the engineer.
21. A safety edge shall be used on all patches that extend to the edge of the riding surface of the shoulder.

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201806901

PAGE 11 OF 53

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

PROJECT NOTES (CONT.)

22. The cost of fine grading, compacting, and preparing existing shoulders for paving shall be incidental to the paving item as noted in Division 401 of the 2016 specifications.
23. Materials used to fill shoulder areas adjacent to new warm mix overlays may be one or more of the following materials as directed by the Engineer: 908001-Topsoil or 301003-Graded Aggregate Base Course, Type B. The unit price shall include furnishing, placement, grading and compacting the material. If a wedge course is placed, the shoulder shall be filled with item 209010 Borrow, Type F prior to the top lift of Type C paving. Note that this backfill must be completed no later than the next day even if a safety edge is present. The top 2" shall be filled with topsoil after the final overlay has been completed.
24. All centerline joints shall be straight. Any non-uniform joints as identified by the department shall be immediately saw cut at the contractor's expense prior to the adjacent pass of paving being completed.
25. All utility adjustments shall be made no more than seven (7) calendar days prior to the placement of the final course of warm mix unless otherwise approved by the engineer. Failure to comply will result in a suspension of all other contract work with time charges continuing to be assessed.
26. All paving, including turn lanes, shoulders and intersections, is to be completed within seven (7) calendar days of each day's milling operation. Failure to comply will result in a suspension of all other contract work with time charges continuing to be assessed.
27. The contractor shall take care in removing pavement around utilities, butt joints, curbs, etc. so as to not disturb the existing pavement beyond the specified depth. Any damage caused by contractor's operation may result in placing leveling courses at the contractor's expense. The removal and clean-up of the hot mix residue wedge remaining after milling operations shall be incidental to the milling item. The removal of existing raised pavement markers (RPM's) shall be incidental to the applicable milling items and/or patching items.
28. Where sidewalks exist within the location limits, curb ramps shall be either newly installed or retrofitted as directed by the engineer in compliance with the most current Delaware Standard Construction Details or as shown on the plans. Payment will be made under the appropriate curb ramp and detectable warning system items.
29. Excavation for PCC curbs, sidewalk or valley gutter shall be incidental to the bid price for each respective item. Excavated material, not needed on the project, shall be removed from the project at the contractor's expense. Item 908001, Topsoil, shall be used as backfill material for curb and sidewalk as directed by the engineer. Topsoil shall be screened/sifted so as no material greater than .5" should be present in the material used for backfill. When replacement of curb and gutter has been completed and the forms removed at each location of this contract, backfilling shall be done immediately. Complete restoration, topsoil, seeding, and removal of all materials for curb & gutter or sidewalk; sealing of valley gutters, flow channels and parging of catch basins, shall be completed within seven (7) calendar days. Failure to comply will result in a suspension of all other contract work with time charges continuing to be assessed.
30. All Portland cement concrete must be received from an approved production plant unless otherwise approved by the Engineer. Only calibrated volumetric concrete trucks will be permitted to provide on-site mixtures. This pertains to both work occurring during normal working hours and nighttime restricted work.

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201806901

PAGE 12 OF 53

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

PROJECT NOTES (CONT.)

31. Drainage inlets, which are 4' or greater in depth and are slated for repair will have steps installed in accordance with Section 602 of the standard specifications. Payment shall be incidental to the unit price bid for adjusting and repairing drainage inlets.
32. Drainage inlet grates within the location limits that do not meet the standard detail for a Type 1 grate (i.e. don't have 45 degree slots) shall be replaced. The engineer shall determine the actual locations and need for grate or frame modifications. Drainage inlet frames shall include necessary adjustments to meet proposed grades incidental to the drainage inlet frame item. All replaced grates/frames shall be delivered to the nearest district maintenance yard with delivery costs incidental to the appropriate bid items. Payment for replaced grates/frames shall not be made until receipt of delivered materials is produced and signed by a DelDOT maintenance yard supervisor. The cost for the work shall be negotiated prior to the replacement of any drainage inlet grates.
33. The Portland Cement Concrete used for - Adjusting and Repairing Existing Man Holes and- Adjusting Water Valve Boxes shall conform to the requirements of Class A concrete as stated within Section 503.02 of the Standard Specifications.
34. The contractor shall give a two (2) weeks' notice to the property owner when any fixture, shrub or another object must be removed from the right of way or easement area. If the owner has not attempted to salvage this property, the contractor shall remove it without obligation. Compensation shall be incidental to the contract.
35. The Department and the contractor shall inspect all existing pipes and drainage structures to be used in the final drainage system and agree to the condition prior to the start of construction. Existing pipes and drainage structures damaged due to contractor operations shall be repaired or replaced in-kind at the contractor's expense.
36. The Department will video-inspect new pipe runs to confirm condition prior to acceptance. Pipe cleaning prior to video inspection and maintenance of traffic during the video inspection is the responsibility of the contractor and incidental to the pipe item that is being video inspected.
37. All manhole adjustments placed in concrete shall require a liberal amount of tack on all bituminous to concrete surfaces and joint sealing application per 1042.01.2. These items are incidental to the manhole adjustment per Sections 401.03.M and item 762.03.D in the 2016 Standard Specifications.
38. All concrete to hot-mix interfaces shall require tack on all vertical surfaces. All longitudinal interfaces shall be sealed with an approved joint sealant material. These items shall be incidental to the bituminous paving item. No separate payment will be made for the sealing of these joints.
39. All newly created pavement joints that will not be overlaid shall be sealed with a uniform band of tack coat of PG 64-22 hot liquid asphalt cement. The PG-64-22 shall be applied by a distributor truck. The band shall be at least 6" wide. An exception will be made where the adjacent pass to the newly laid pass has not cooled below 175 degrees Fahrenheit. All vertical contact surfaces shall be tacked before placing any new mixture against the joint. These items shall be incidental to the bituminous paving item. No separate payment will be made for the sealing of these joints.

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201806901

PAGE 13 OF 53

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

PROJECT NOTES (CONT.)

40. The contractor is directed to Standard Specification Section 902 –Pumping Operations. Section 902 shall apply to the dewatering of all work sites. This item is not measured or paid and shall be included with the respective pipe item.
41. The use of trench boxes for installation of pipe shall be incidental to the corresponding pipe item. If the contractor chooses to step-back the trench in lieu of using a trench box, all excavation and fill material shall be paid only to the neat line indicated on the work order. If shoring and/or sheeting is needed than that item will be negotiated separately. Shoring and/or sheeting will only be paid if deemed necessary by the engineer or his representative. Such payment shall be agreed upon prior to the start of work.
42. The contractor shall anticipate that utilities will be in the area of the excavation for pipe trenches and the contractor shall bid items accordingly. Separate payment will not be made for digging around utilities. Test pitting will be paid under item 207000.
43. Removal of Structures and Obstructions shall be paid per the bid breakout sheet for item 211000 – Removal of Structures and Obstructions. The breakout sheet identifies what items are to be removed.
44. Neither RAP nor RAS shall be permitted in the mix design for item 401005.

UNOFFICIAL
WEBSITE
COPY

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201806901

PAGE 14 OF 53

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS

43. All work shall be performed in a manner that will reasonably provide the least practical obstruction to all road users, including vehicular, pedestrian and bicycle traffic and shall conform to the requirements of the latest Delaware Manual on Uniform Traffic Control Devices (MUTCD) part 6, herein referred to as the Traffic Control Manual (including revisions in effect at the time of advertisement for bids).
 44. At the preconstruction meeting, the contractor shall submit to the South District Safety Officer the necessary NCHRP 350 / MASH certifications for all traffic control devices expected to be used on the contract. In addition, prior to the start of any work order, the contractor must submit a traffic control plan including any additional NCHRP 350 / MASH certifications not previously submitted. Written approval must be received before the start of work at each and every location.
 45. The contractor shall submit to the South District Safety Officer their proposed lane closure time frames for approval. This shall be submitted a minimum of 2 weeks prior to the start of work.
 46. An American Traffic Safety Services Association (ATSSA) certified traffic control supervisor shall be required for each location on this project. A copy of the certification card for the ATSSA traffic control supervisor shall be submitted at the pre-construction meeting. The paper certificate is not acceptable. The ATSSA officer shall be incidental to the work being performed and shall not be paid separately.
 47. The contractor shall use typical application 10 from the Delaware Manual on Uniform Traffic Control Devices as outlined in the breakout sheet for item 801000, maintenance of traffic. All locations also require the use of permanent warning signs that shall also be included in 801000. Detours will also be required for pipe replacements. Detours shall be paid per LS per the MOT breakout sheet.
 48. Maintenance of traffic, unless otherwise noted in the approved plans, shall conform to the appropriate traffic control typical application found in the latest version of the Traffic Control Manual.
 49. When required by the DE MUTCD, permanent advance warning signs shall be installed with the legends "ROAD WORK AHEAD" in advance of the work area in both directions. An "END ROAD WORK" sign shall be located downstream from the work area. On intersecting roadways within the project limits, a "ROAD WORK AHEAD" sign shall be placed in advance of the work area and an "END ROAD WORK" sign shall be located downstream of the work area. All permanent advance warning signs shall be ground mounted on two NCHRP 350 or MASH approved breakaway posts and shall be mounted in compliance with the Traffic Control Manual. Permanent advance warning signs shall be mounted at a height of 7 feet, measured from the roadway to the bottom of the sign. The use of skid mounted sign supports is not allowed unless the contractor can demonstrate that a utility conflict exists, which shall be verified by the engineer; or concrete medians prevent the installation of the permanent signs in the appropriate location. These signs shall be included in the lump sum MOT.
- A. 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 service, 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 the cold patch, bituminous concrete, or bituminous concrete wedge shall be paid as noted in the Contract Documents. Taper mill bituminous concrete shall be paid under the bituminous concrete milling item.

MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS

- B. 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 Millings and GABC will be rolled and compacted to help prevent the material from unravelling:
- 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 item No. 743000 – Maintenance of Traffic. 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 under the respective contract material item. Vertical differences shall be corrected in accordance with the table 6G-1 of the Delaware MUTCD.

50. No separate payment shall be made for the use of traffic cones. Traffic cones and/or work associated with their use such as setup, removal, cleaning, etc. shall be incidental to the work for which they protect.
51. All traffic control devices shall be in new or refurbished condition, shall comply with the Traffic Control Manual, shall be NCHRP 350 / MASH approved, and shall be approved by the Engineer prior to installation.

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201806901

PAGE 16 OF 53

SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS (CONT.)

52. All traffic control devices shall meet the requirements of the latest edition of the Traffic Control Manual. Please note sheeting requirements for all signs, channelizing devices, etc.
53. All traffic control devices shall be suitably maintained at all times, including such maintenance as washing sign faces, replacing deficient batteries and lights, aligning properly, replacing reflective materials, relocating barriers, and any other maintenance of traffic control devices deemed necessary by the Engineer or his designee to maintain traffic in a safe and effective manner.
54. All persons working within the state right-of-way shall wear a minimum of an ANSI Class II safety vest meeting the ANSI 107-2004 requirements.
55. The contractor is responsible for ensuring that the Traffic Management Center (1-302-659-4600) is notified each and every day when work is being performed in State Right of Way. The contractor must identify the type of work, any lane(s) or shoulder(s) closed, the length of time for work when the lane restriction is in place and when the lane restriction is picked up, contact person/number and state inspector.
56. The contractor shall be responsible for notifying the local 911 center, local schools, and the DeIDOT public information center of all roads and lanes to be closed a minimum of seven calendar days before the closure. If temporarily blocking access to a fire hydrant, notification must be given to Sussex County, the local firefighting authorities, and the 911 center.
57. The contractor shall be responsible for daily coordination efforts with his/her work with other contractors in the immediate area.
58. The contractor shall provide all residents and businesses adjacent to the work zone a minimum 48 hr. 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 & address, and DeIDOT contact numbers. Failure to give proper notice will result in a suspension of work requiring notice until proper notice is provided.
59. Access to all businesses and residences within the project limits shall be maintained throughout the duration of the contract. Any temporary closure of an entrance for tie in purposes shall be coordinated with the engineer and / or property owner in advance of the closure.
60. Prior to additional lifts, all drop offs shall be secured before next lift per Delaware MUTCD 6G.1, even when a safety edge is present.
61. The contractor is responsible for the maintenance of existing pavement and shoulders within the project limits for the duration of the contract or as directed by the Engineer or his designee.
62. All roadways and entrances not open to traffic shall be closed using Type III Barricades and shall be placed per the Traffic Control Manual, Section 6F.63 & 6F.68.
63. A safety edge shall be used on all overlays.

MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS (CONT.)

64. The contractor shall maintain access to and along pedestrian facilities at all times during construction. Earth, stone and gravel surfaces are not acceptable for providing pedestrian access. Where pedestrian routes are closed or blocked, alternate pedestrian access shall be provided using TA-28 or TA-29 of the Traffic Control Manual or to the satisfaction of the Engineer and shall be ADA compliant. The cost for any provisions on open end contracts shall be negotiated prior to the commencement of work.

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 1960 (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 practical the existing pedestrian facilities.
- Maintain access to all businesses and residences at all times.
- Provide pedestrian access through or around the work zone. If a detour is chosen the contractor must submit the detour route to the engineer for review and approval. 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 protrude 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" into the 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 grade or terrain that could cause tripping or be a barrier to wheelchair use.

65. All storage of equipment and material shall comply with section 6G.21 of the Traffic Control Manual.

66. All flaggers shall comply with Chapter 6E of the Traffic Control Manual.

67. All roadway excavation in or adjacent to travel ways shall be properly backfilled at the end of each day prior to traffic returning to unrestricted travel per Section 6G.20 and Table 6G-1 of the Traffic Control Manual. This includes all utilities and/or obstacles within or adjacent to the travel ways as outlined in the Traffic Control Manual.

68. Prior to the start of work, the contractor shall be required to show proof that he has sufficient approved striping materials on hand to ensure striping is completed prior to fully opening roadway to traffic.

DEPARTMENT OF TRANSPORTATION

CONTRACT: T201806901

PAGE 18 OF 53

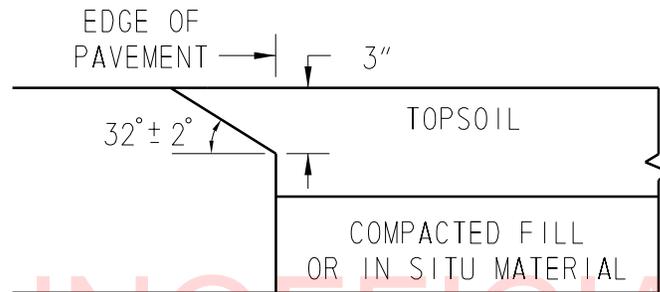
SOUTH DISTRICT

CONVERSION ROADS, SOUTH, 2018

MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS (CONT.)

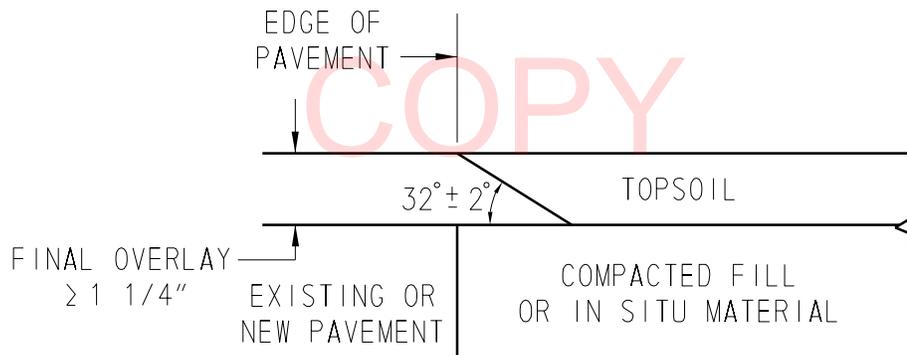
69. The department will provide striping layout at locations where no pavement markings previously existed. If department forces provide striping layout on locations where markings previously existed, then the contractor shall reimburse the department for the layout costs.
70. The contractor shall submit detailed drawings (including but not limited to lane and shoulder widths, turn lane lengths, locations of stop bars, turn arrows, crosswalks and railroad crossings) that depict the existing pavement markings for each project location at the preconstruction meeting. These drawings will be reviewed by the department's traffic section to determine if any changes to the final pavement markings are required.
71. Final pavement markings shall conform to all existing patterns unless otherwise directed by the Engineer. The final pavement markings shall be placed within five (5) calendar days after the completion of the paving. Failure to comply will result in suspension of all other contract work with time charges continuing to be assessed.
72. At the end of each day's operation and before traffic is returned to unrestricted roadway use, temporary striping shall be utilized at locations that require permanent striping. Temporary pavement striping must match permanent pavement striping in all regards. Temporary pavement markings shall be paid at the applicable contract unit price. The contractor is responsible for maintaining the temporary markings in good condition such that the pavement is properly delineated at all times. Any refreshing of the temporary markings will be at the contractor's expense, including the replacement of peeling temporary tape.
73. The contractor shall be required to show proof that he has sufficient approved striping materials on hand to ensure striping is completed prior to full opening roadway to traffic.
74. Any erroneous marking will not be paid for and shall be corrected immediately at the contractor's expense. Erroneous markings or shadows that exceed one (1) inch in width shall be removed by either sand or water blasting. No other removal methods will be allowed. An asphalt sealer shall be applied in the area of the removed marking to mask the repair. Any damage to the pavement caused by the removal of erroneous markings shall be repaired/replaced to the satisfaction of the Engineer at the contractor's expense.
75. All markings that are no longer in use and conflict with the pavement markings in use by the traveling public are to be removed and must be completely obliterated by a method approved by the Engineer. Painting over the conflicting striping will not be accepted as a method of removal.
76. Yellow centerlines shall be continuous around median islands. All double yellow centerlines shall be placed in a 5-6-5 configuration (2 each, 5" yellow with a 6" gap between).
77. The contractor, with the Engineer, 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 by the contractor, who shall be responsible for any 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.

DETAILS SHEET



CONCRETE PAVEMENTS

N. T. S.

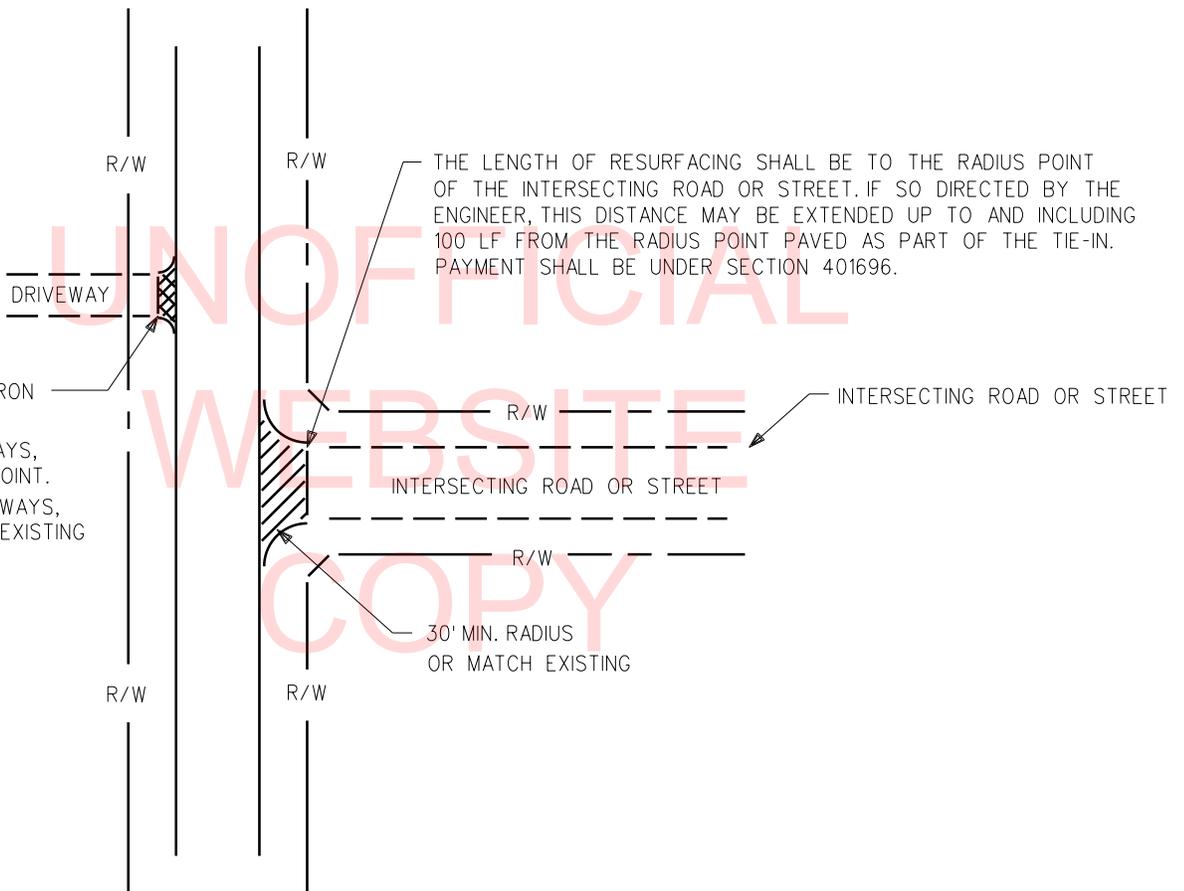


BITUMINOUS CONCRETE PAVEMENTS AND OVERLAYS

N. T. S.

SAFETY EDGE

DETAILS SHEET



INTERSECTING ROAD, STREET, AND DRIVEWAYS

NOTES:

SECTION 401696 IS A SURCHARGE ONLY FOR ADDITIONAL LABOR AND EQUIPMENT FOR NON-MAINLINE PAVING. THE COST OF THE ACTUAL WARM-MIX PLACED SHALL BE PAID UNDER THE RESPECTIVE WARM MIX ITEM.

THIS PAYMENT WILL APPLY FOR STATE NUMBERED ROAD PAVING WORK ONLY. THIS ITEM / PAYMENT DOES NOT APPLY TO SUBDIVISION STREETS.

FOR IMPROVED DRIVEWAYS, WARM MIX TO MATCH EXISTING DRIVEWAY MATERIAL AT A MAXIMUM DISTANCE OF 3' FROM THE EDGE OF TRAVELWAY OR AS DIRECTED BY THE ENGINEER.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 21 OF 53

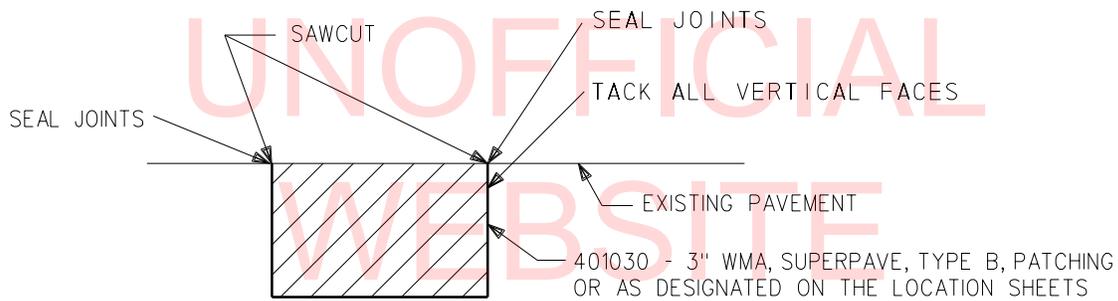
SOUTH DISTRICT

CONVERSION ROADS , SOUTH, 2018

DETAILS SHEET

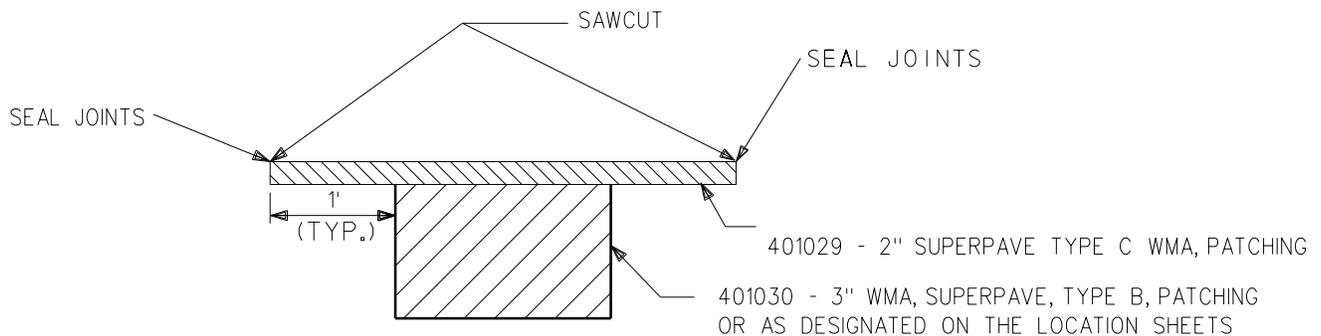
NOTE: ALL EDGES TO BE SAWCUT. CUTTING BY USE OF AIR HAMMERS MAY BE SUBSTITUTED FOR SAWCUTTING IF THE AREA IS TO BE OVERLAID UNDER THE SAME CONTRACT. THIS DETAIL SHALL BE USED FOR ALL WARM-MIX PATCHES UNLESS OTHERWISE NOTED ON THE PLANS.

NOTE: PATCH SIZES SHALL BE AS DIRECTED BY THE ENGINEER.



WARM-MIX PATCH WITH OVERLAY

NOTE: DEPTH OF PATCHING 3" OR AS DIRECTED BY THE ENGINEER



WARM-MIX PATCH DETAIL

(NO OVERLAY)

NOTE: DEPTH OF PATCHING VARIES AS DIRECTED BY THE ENGINEER

DELAWARE DEPARTMENT OF TRANSPORTATION

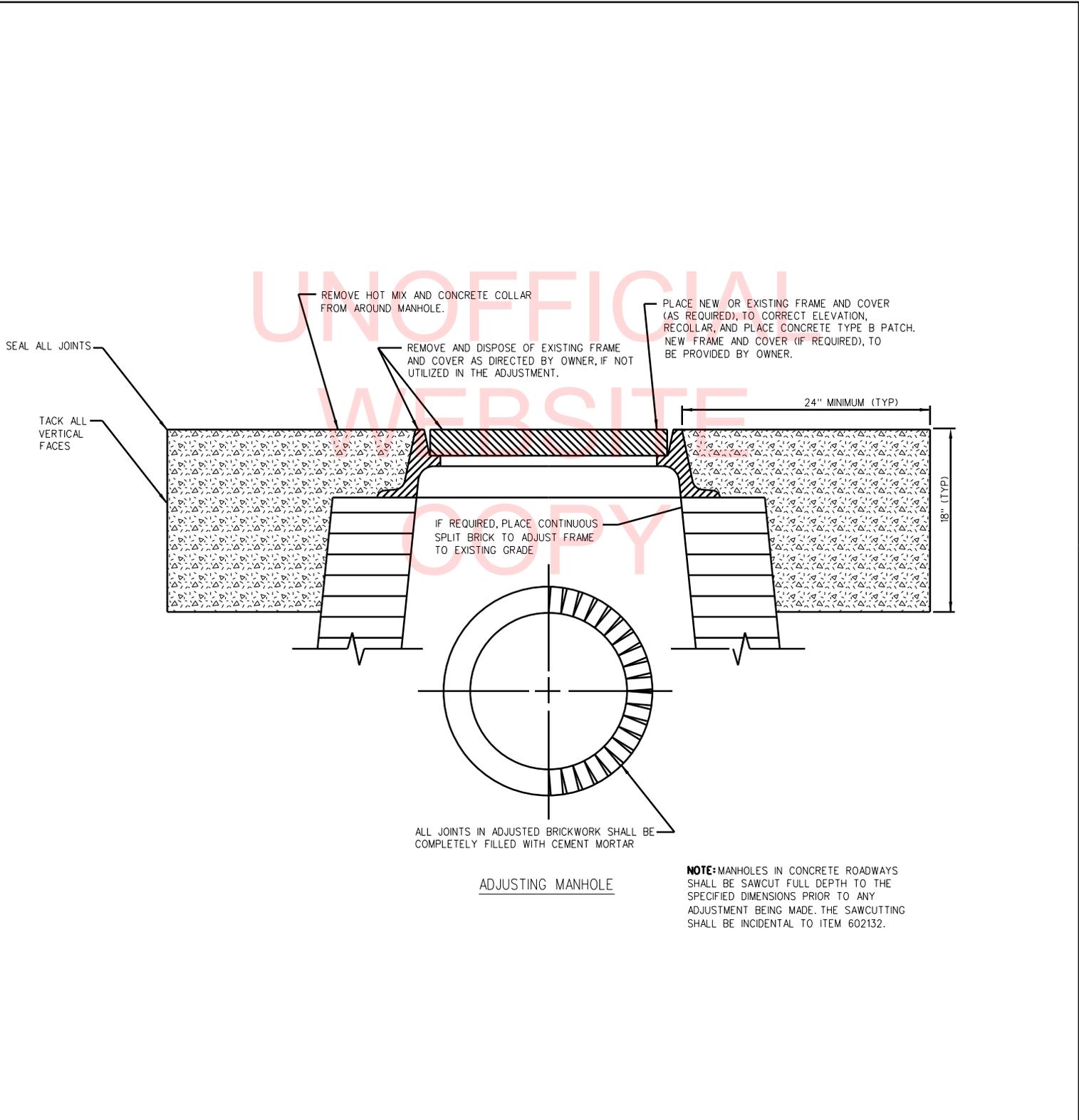
CONTRACT T201806901

PAGE 22 OF 53

SOUTH DISTRICT

CONVERSION ROADS , SOUTH, 2018

DETAILS SHEET



DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 23 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 1 233(REYNOLDS ROAD) FROM S16 (BROADKILL RD) TO S14 (COASTAL HWY)

LENGTH 3160.7760 m 10370.0000 L.F. AADT 418

GENERAL IMPROVEMENTS

2.5" OVERLAY WITH PATCHING AND PIPE REPLACEMENT

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00	L.S.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	38.00	S.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	86.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	4,019.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	10.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	195.00	TON
402000	BITUMINOUS CONCRETE PATCHING	157.00	SY-IN
601031	REINFORCED CONCRETE PIPE, 12" CLASS IV	48.00	L.F.
762000	SAW CUTTING, BITUMINOUS CONCRETE	97.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	68.00	L.F.
762004	BUTT JOINTS	935.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	6.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	408.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	72.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	48.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	18,425.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	32.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	15,555.00	L.F.
908001	TOPSOIL	490.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	5,762.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 24 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 2 234(DEEP BRANCH ROAD) FROM S14 (COASTAL HWY) TO S233 (REYNOLDS RD)

LENGTH 393.1920 m 1290.0000 L.F. AADT 669

GENERAL IMPROVEMENTS

2.5" OVERLAY WITH PATCHING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 2

301003	GRADED AGGREGATE BASE COURSE, TYPE B	13.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	490.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	4.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	10.00	TON
402000	BITUMINOUS CONCRETE PATCHING	60.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	42.00	L.F.
762004	BUTT JOINTS	284.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	136.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	24.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	16.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	645.00	L.F.
908001	TOPSOIL	61.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	717.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 25 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 3 234B(DRAPER ROAD) FROM S233 (REYNOLDS RD) TO S22 (UNION ST EXT)

LENGTH 469.3920 m 1540.0000 L.F. AADT 645

GENERAL IMPROVEMENTS

2" OVERLAY WITH WEDGING AND PATCHING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 3

209010	BORROW, TYPE F	11.00	TON
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	7.00	S.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	20.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	484.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	6.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	40.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	15.00	TON
402000	BITUMINOUS CONCRETE PATCHING	100.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	110.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	20.00	L.F.
762004	BUTT JOINTS	89.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	136.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	24.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	32.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	770.00	L.F.
908001	TOPSOIL	50.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	724.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 26 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 4 308(CORDREY ROAD) FROM S309 (WILLIAM STREET RD) TO S310 (STREETS RD)

LENGTH 1190.2440 m 3905.0000 L.F. AADT 673

GENERAL IMPROVEMENTS

2" OVERLAY WITH PATCHING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 4

301003	GRADED AGGREGATE BASE COURSE, TYPE B	33.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	1,175.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	27.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	20.00	TON
402000	BITUMINOUS CONCRETE PATCHING	466.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	294.00	L.F.
762004	BUTT JOINTS	434.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	3.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	170.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	30.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	16.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	5,858.00	L.F.
908001	TOPSOIL	120.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	1,736.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 27 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 5 309(WILLIAM STREET RD) FROM S24 (JOHN J WILLIAMS HWY) TO S308 (CORDREY RD)

LENGTH 848.8680 m 2785.0000 L.F. AADT 754

**GENERAL IMPROVEMENTS
2" OVERLAY WITH WEDGING AND PATCHING**

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 5

209010	BORROW, TYPE F	23.00	TON
301003	GRADED AGGREGATE BASE COURSE, TYPE B	17.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	900.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	21.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	89.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	27.00	TON
402000	BITUMINOUS CONCRETE PATCHING	351.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	223.00	L.F.
762004	BUTT JOINTS	604.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	3.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	170.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	30.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	32.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,393.00	L.F.
908001	TOPSOIL	92.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	1,325.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 28 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 6 327(DOGWOOD ACRES ROAD) FROM S26 (VINES CREEK RD) TO S341
(FALLING POINT RD)

LENGTH 780.2880 m 2560.0000 L.F. AADT 731

GENERAL IMPROVEMENTS

2" OVERLAY WITH WEDGING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 6

209010	BORROW, TYPE F	148.00	TON
301003	GRADED AGGREGATE BASE COURSE, TYPE B	7.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	749.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	583.00	TON
762004	BUTT JOINTS	374.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	3.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	170.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	30.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	32.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,280.00	L.F.
908001	TOPSOIL	118.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	1,707.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 29 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 7 346(HOLTS LANDING ROAD) FROM S347 (WHITES NECK RD) TO GATE AT DNREC PROPERTY

LENGTH 1508.7600 m 4950.0000 L.F. AADT 1683

**GENERAL IMPROVEMENTS
2" OVERLAY WITH PATCHING**

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 7

301003	GRADED AGGREGATE BASE COURSE, TYPE B	10.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	1,254.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	9.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	10.00	TON
402000	BITUMINOUS CONCRETE PATCHING	140.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	81.00	L.F.
762004	BUTT JOINTS	239.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	136.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	24.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	16.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	3,802.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	16.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	4,950.00	L.F.
908001	TOPSOIL	152.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	2,200.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 30 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 8 346A(WALTER BLUFF ROAD) FROM S346 (HOLTS LANDING RD) TO IMMEDIATELY AFTER ENTRANCE TO CAMPGROUND

LENGTH 643.1280 m 2110.0000 L.F. AADT 1079

**GENERAL IMPROVEMENTS
2" OVERLAY WITH WEDGING**

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 8

209010	BORROW, TYPE F	122.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	552.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	481.00	TON
762004	BUTT JOINTS	171.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	136.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	24.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	16.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	2,437.00	L.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	3,165.00	L.F.
908001	TOPSOIL	97.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	1,407.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 31 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 9 375(SHOCKLEY TOWN ROAD) FROM S376 (PEPPER RD) TO S92 (FRANKFORD SCHOOL RD)

LENGTH 2370.1248 m 7776.0000 L.F. AADT 753

GENERAL IMPROVEMENTS

2" OVERLAY WITH WEDGING, PATCHING AND PIPE REPLACEMENTS

COMMENTS:

DETOUR REQUIRED FOR PIPE REPLACEMENT. SEE DETOUR PLAN IN CONTRACT PACKAGE.

MATERIAL ESTIMATE FOR LOCATION 9

209010	BORROW, TYPE F	80.00	TON
211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00	L.S.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	74.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	2,174.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	13.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	316.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	90.00	TON
402000	BITUMINOUS CONCRETE PATCHING	224.00	SY-IN
601032	REINFORCED CONCRETE PIPE, 15", CLASS IV	106.00	L.F.
762000	SAW CUTTING, BITUMINOUS CONCRETE	174.00	L.F.
762004	BUTT JOINTS	912.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	5.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	340.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	60.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	64.00	S.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	64.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	7,776.00	L.F.
908001	TOPSOIL	260.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	3,765.00	S.Y.

G:\SOUTH_DIST_SUPPORT\CONTRACTS\1718 CONTRACTS\17201806901 CONVERSION ROADS.F\18\PROJECT DEVELOPMENT\CONTRACT PLANS\SEM-FINAL PLANS\32 - S375 SHOCKLEY TOWN RD DETOUR PLAN.DWG

PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

SHOCKLEY
TOWN
ROAD

TO CLOSE
STARTING
XX/XX/XX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-2

SHOCKLEY
TOWN RD
CLOSED

FOLLOW
DETOUR

48" x 69"

Shockley Town Road CLOSED EAST OF Pepper Road	6"C 6"C 6"C 6"C
FOLLOW DETOUR	6"C 6"C

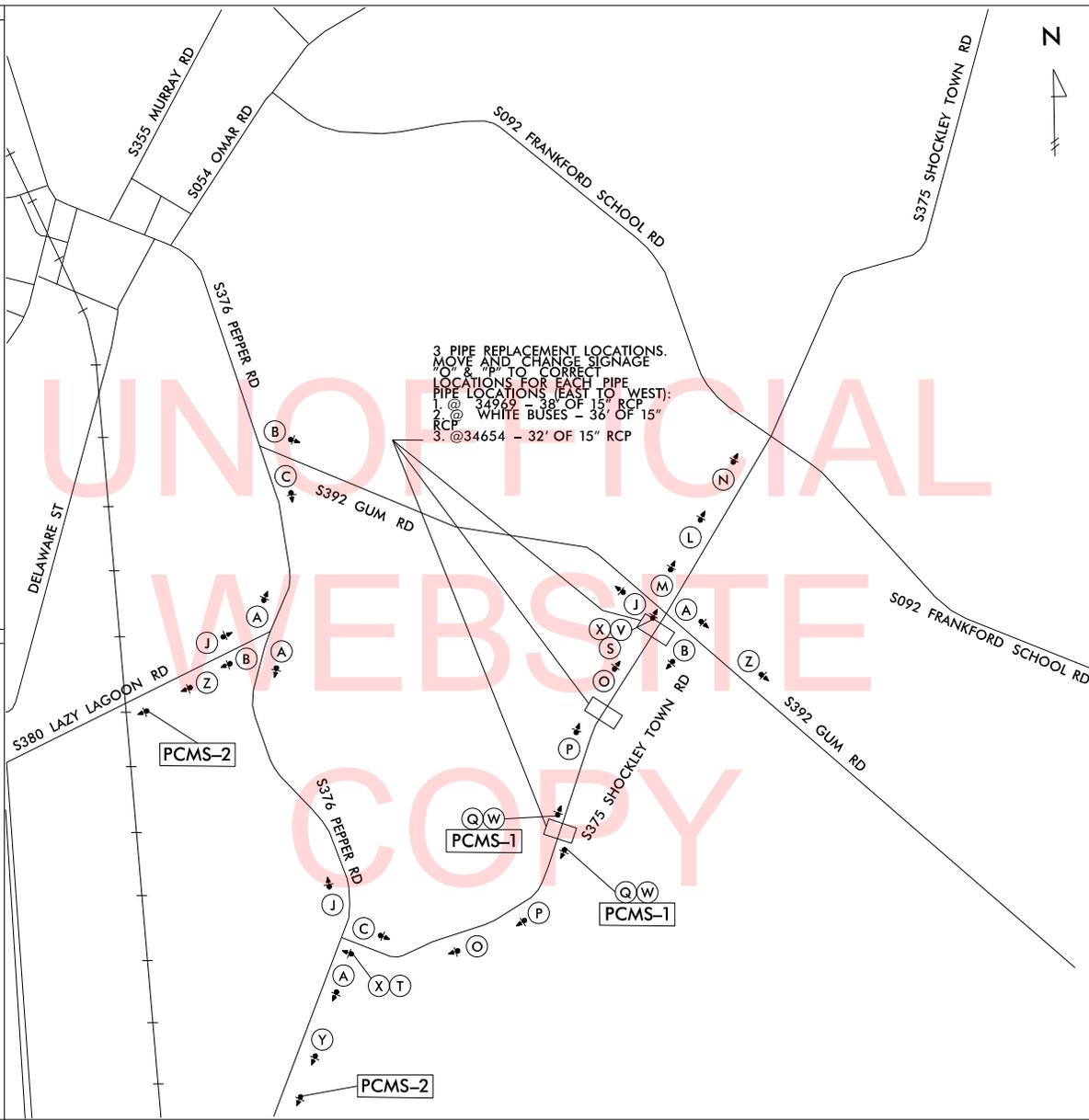
(Y)

48" x 69"

Shockley Town Road CLOSED SOUTH OF Gum Road	6"C 6"C 6"C 6"C
FOLLOW DETOUR	6"C 6"C

(Z)

*D/G RETROREFLECTIVE FLOURESCENT
ORANGE BACKGROUND; BLACK LEGEND



LEGEND

(A) ↑ M6-9-0E DETOUR	(B) ← M6-9 DETOUR	(C) → M6-9 DETOUR	(D) ↙ M6-9 DETOUR	(E) ↘ M6-9 DETOUR
(F) ↙ M6-9 DETOUR	(G) ↘ M6-9 DETOUR	(H) ↘ M6-9 DETOUR	(I) ↙ M6-9 DETOUR	(J) ↘ M1-20 END DETOUR
(K) ◇ W20-2 DETOUR AHEAD	(L) ◇ W20-2 DETOUR 1000 FT	(M) ◇ W20-2 DETOUR 500 FT		
(N) ◇ W20-3 ROAD CLOSED AHEAD	(O) ◇ W20-3 ROAD CLOSED 1000 FT	(P) ◇ W20-3 ROAD CLOSED 500 FT		
(Q) ◇ R11-2 ROAD CLOSED	(R) ← M6-10(I) DETOUR	(S) → M6-20(R) DETOUR		
(T) ROAD CLOSED 1/2 MILE AHEAD LOCAL TRAFFIC ONLY R11-26	(U) BRIDGE OUT XX MILES AHEAD R11-26	(V) ROAD CLOSED TO THRU TRAFFIC R11-4		
(W) BARRICADE	(X) BARRICADE			

- GENERAL NOTES**
1. ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
 2. THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION.)
 3. DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
 4. SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
 5. SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
 6. FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD) WILL PREVAIL.
 7. SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
 8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLOURESCENT ORANGE SHEETING.
 9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
 10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	APPROVED CHIEF SAFETY OFFICER _____ DATE: _____	APPROVED TRAFFIC ENGINEER _____ DATE: _____
ADDENDUM / REVISIONS		NOT TO SCALE	Conversion Roads, South, 2018 S375 SHOCKLEY TOWN RD	VEHICULAR DETOUR PLAN S375 SHOCKLEY TOWN RD
DELAWARE DEPARTMENT OF TRANSPORTATION		CONTRACT 1201806901	PERMIT NO. X	SHEET NO. 32
		COUNTY	DESIGNED BY: MARK HYLBERT	TOTAL SHTS. 53
		SUSSEX	CHECKED BY: _____	

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 33 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 10 380(PARKER ROAD) FROM S60 (CYPRESS RD) TO S113 (DUPONT BLVD)

LENGTH 3427.4760 m 11245.0000 L.F. AADT 704

GENERAL IMPROVEMENTS

2" OVERLAY WITH PATCHING AND PIPE REPLACEMENTS

COMMENTS:

DETOUR REQUIRED FOR PIPE REPLACEMENT. SEE DETOUR PLAN IN CONTRACT PACKAGE.

MATERIAL ESTIMATE FOR LOCATION 10

211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00	L.S.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	16.00	S.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	110.00	TON
302005	DELAWARE NO. 57 STONE	230.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	3,088.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	77.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	44.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,327.00	SY-IN
601032	REINFORCED CONCRETE PIPE, 15", CLASS IV	64.00	L.F.
601033	REINFORCED CONCRETE PIPE, 18", CLASS IV	46.00	L.F.
601037	REINFORCED CONCRETE PIPE, 30", CLASS IV	192.00	L.F.
762000	SAW CUTTING, BITUMINOUS CONCRETE	657.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	48.00	L.F.
762004	BUTT JOINTS	306.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	15.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	680.00	HOURLY
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	120.00	HOURLY
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	16.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	16,868.00	L.F.
908001	TOPSOIL	345.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	4,998.00	S.Y.

G:\SOUTH_DIST_SUPPORT\CONTRACT\SY1718_CONTRACTS\T2018006901_CONVERSION_ROADS_FY18\PROJECT_DEVELOPMENT\CONTRACT_PLANS\SEM-FINAL_PLANS\34 - S380 PARKER RD DETOUR PLAN.DWG

PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

PARKER ROAD

TO CLOSE STARTING XX/XX/XX

(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

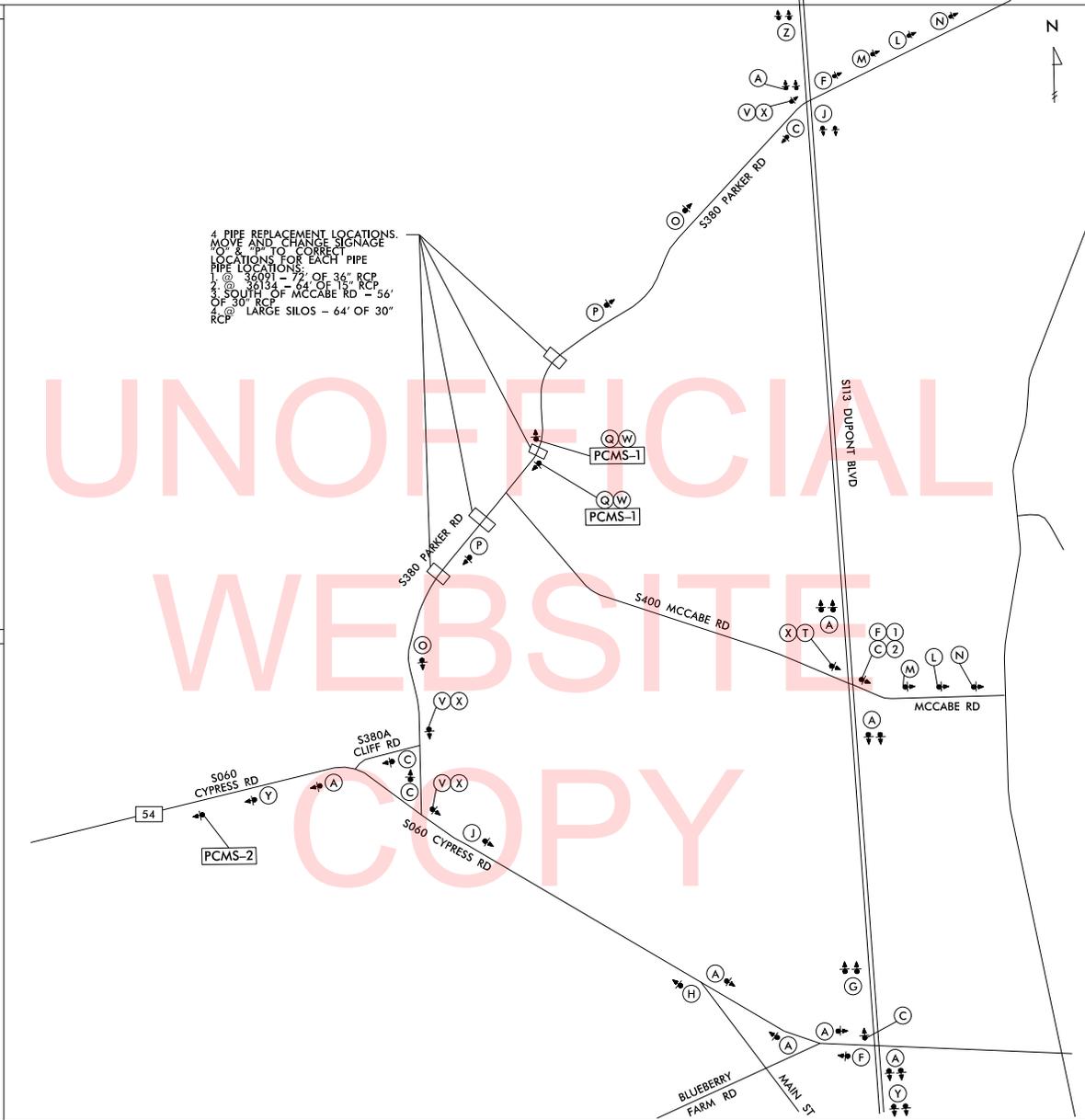
PCMS-2

PARKER ROAD CLOSED

FOLLOW DETOUR

ADD PLAQUES TO SPECIALTY SIGNS THESE PLAQUES WILL BE USED AT THE INTERSECTION OF MCCABE RD AND RT 113

1. SOUTH					
2. NORTH					
<div style="display: flex; justify-content: space-around; width: 100%;"> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">XXXXX</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">Parker Road CLOSED NORTH OF Cliff Road</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">FOLLOW DETOUR</div> </div>		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">6" C</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">6" C</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">6" C</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">6" C</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">6" C</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">48"</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">78"</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">Parker Road CLOSED WEST OF</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">113</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">24" DIA</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">6" C</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">6" C</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">6" C</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">6" C</div> <div style="border: 1px solid black; padding: 2px; font-size: x-small;">6" C</div> </div>
<p style="font-size: x-small;">*ROUTE SHIELD SHOULD BE WHITE BACKGROUND WITH BLACK BORDER AND TEXT</p>		<p style="font-size: x-small;">*D/G RETROREFLECTIVE FLOURESCENT ORANGE BACKGROUND; BLACK LEGEND</p>			



LEGEND

GENERAL NOTES

1. ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
2. THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION.)
3. DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
4. SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
5. SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
6. FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE THE GOVERNING STANDARD.
7. SIGNS "N" THROUGH "O" AND "I" AND "V"; THE WORD "ROAD" SHOULD BE CHANGED TO "BRIDGE" WHERE APPLICABLE.
8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLOURESCENT ORANGE SHEETING.
9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	APPROVED CHIEF SAFETY OFFICER _____ DATE: _____	APPROVED TRAFFIC ENGINEER _____ DATE: _____																					
		NOT TO SCALE	CONVERSION ROADS, SOUTH, 2018 S380 PARKER RD	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>CONTRACT</td> <td>PERMIT NO.</td> <td style="text-align: center;">X</td> </tr> <tr> <td>T2018006901</td> <td>DESIGNED BY:</td> <td>MARK HYLBERT</td> </tr> <tr> <td>COUNTY</td> <td>CHECKED BY:</td> <td></td> </tr> <tr> <td>SUSSEX</td> <td></td> <td></td> </tr> </table>	CONTRACT	PERMIT NO.	X	T2018006901	DESIGNED BY:	MARK HYLBERT	COUNTY	CHECKED BY:		SUSSEX			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">VEHICULAR DETOUR PLAN</td> </tr> <tr> <td colspan="2" style="text-align: center;">S380 PARKER ROAD</td> </tr> <tr> <td style="width: 50%;">SHEET NO.</td> <td style="text-align: right;">34</td> </tr> <tr> <td>TOTAL SHTS.</td> <td style="text-align: right;">52</td> </tr> </table>	VEHICULAR DETOUR PLAN		S380 PARKER ROAD		SHEET NO.	34	TOTAL SHTS.	52
CONTRACT	PERMIT NO.	X																							
T2018006901	DESIGNED BY:	MARK HYLBERT																							
COUNTY	CHECKED BY:																								
SUSSEX																									
VEHICULAR DETOUR PLAN																									
S380 PARKER ROAD																									
SHEET NO.	34																								
TOTAL SHTS.	52																								

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 36 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 12 386(POLLY BRANCH ROAD) FROM S52 (LIGHTHOUSE RD) TO S376 (MAIN ST)

LENGTH 3781.0440 m 12405.0000 L.F. AADT 912

GENERAL IMPROVEMENTS

2" OVERLAY WITH PARTIAL MILLING, WEDGING, PIPE REPLACEMENTS AND CURB RAMPS

COMMENTS:

DETOUR REQUIRED FOR PIPE REPLACEMENT. SEE DETOUR PLAN IN CONTRACT PACKAGE.

MATERIAL ESTIMATE FOR LOCATION 12

209010	BORROW, TYPE F	165.00	TON
211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00	L.S.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	17.00	S.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	220.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	3,595.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	90.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	1,081.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	54.00	TON
402000	BITUMINOUS CONCRETE PATCHING	1,554.00	SY-IN
601032	REINFORCED CONCRETE PIPE, 15", CLASS IV	112.00	L.F.
601035	REINFORCED CONCRETE PIPE, 24", CLASS IV	122.00	L.F.
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	10.00	EACH
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	20.00	S.F.
705008	CURB RAMP, TYPE 1	150.00	S.F.
710002	ADJUST WATER VALVE BOXES	3.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	8,000.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	725.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	10.00	L.F.
762004	BUTT JOINTS	1,419.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	12.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	680.00	hour
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	120.00	hour
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	134.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	13,200.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	64.00	S.F.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 37 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 12 386(POLLY BRANCH ROAD) FROM S52 (LIGHTHOUSE RD) TO S376 (MAIN ST)

LENGTH 3781.0440 m 12405.0000 L.F. AADT 912

GENERAL IMPROVEMENTS

2" OVERLAY WITH PARTIAL MILLING, WEDGING, PIPE REPLACEMENTS AND CURB RAMPS

COMMENTS:

DETOUR REQUIRED FOR PIPE REPLACEMENT. SEE DETOUR PLAN IN CONTRACT PACKAGE.

MATERIAL ESTIMATE FOR LOCATION 12

817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	21,708.00	L.F.
908001	TOPSOIL	424.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	6,147.00	S.Y.

UNOFFICIAL
WEBSITE
COPY

G:\SOUTH DIST SUPPORT\CONTRACTS\1718 - CONTRACTS\20180690 - CONVERSION ROADS, SOUTH\PROJECT DEVELOPMENT\CONTRACT PLANS\SEMIFINAL PLANS\38 - S386 POLLY BRANCH RD DETOUR PLAN LOC 1N 2.00N

PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

**POLLY
BRANCH
ROAD**

**TO CLOSE
STARTING
XX/XX/XX**

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-1

**POLLY
BRANCH
RD CLOSED**

**FOLLOW
DETOUR**

48"

6"C	Polly Branch Rd	6"C
6"C	CLOSED	6"C
6"C	SOUTH	6"C
6"C	Roxanna Rd	6"C
6"C	FOLLOW	6"C
6"C	DETOUR	6"C

Y

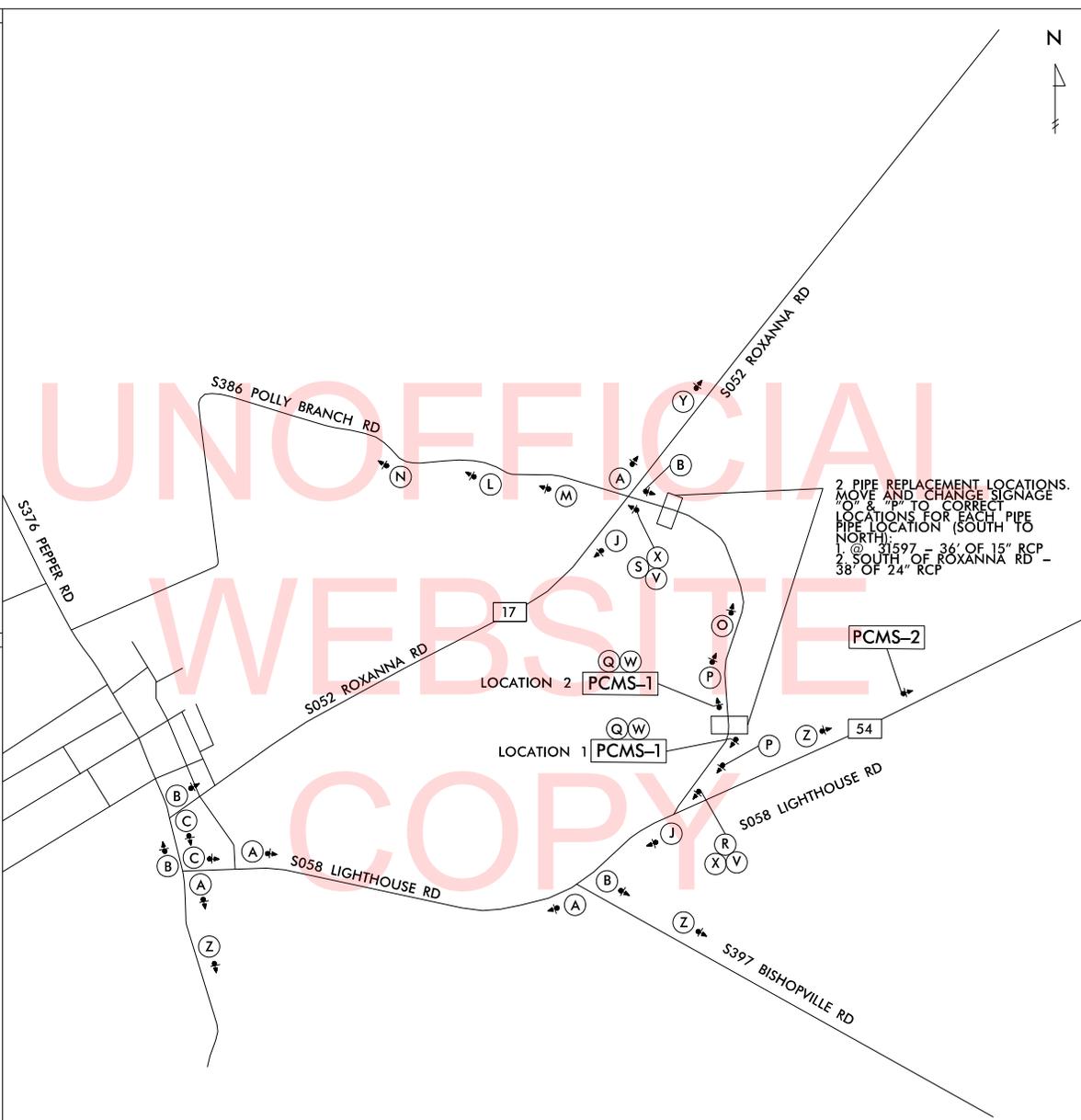
48"

6"C	Polly Branch Rd	6"C
6"C	CLOSED	6"C
6"C	NORTH OF	6"C
24"	58	24"
6"C	FOLLOW	6"C
6"C	DETOUR	6"C

Z

*ROUTE SHIELD SHOULD BE WHITE BACKGROUND WITH BLACK BORDER AND TEXT

*D/G RETROREFLECTIVE FLOURESCENT ORANGE BACKGROUND; BLACK LEGEND



LEGEND

GENERAL NOTES

1. ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
2. THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION.)
3. DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
4. SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
5. SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
6. FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD) WILL PREVAIL.
7. SIGNS "N" THROUGH "Q" AND "T" AND "V"; THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLOURESCENT ORANGE SHEETING.
9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	APPROVED CHIEF SAFETY OFFICER _____ DATE: _____	APPROVED TRAFFIC ENGINEER _____ DATE: _____												
DELAWARE DEPARTMENT OF TRANSPORTATION		NOT TO SCALE	CONVERSION ROADS, SOUTH 2018 S386 POLLY BRANCH RD	<table border="1" style="width: 100%; text-align: center;"> <tr><td>CONTRACT</td><td>PERMIT NO.</td><td>X</td></tr> <tr><td>T201806901</td><td>DESIGNED BY: MARK HYLBERT</td><td></td></tr> <tr><td>COUNTY</td><td>CHECKED BY: _____</td><td></td></tr> <tr><td>SUSSEX</td><td></td><td></td></tr> </table>	CONTRACT	PERMIT NO.	X	T201806901	DESIGNED BY: MARK HYLBERT		COUNTY	CHECKED BY: _____		SUSSEX		
CONTRACT	PERMIT NO.	X														
T201806901	DESIGNED BY: MARK HYLBERT															
COUNTY	CHECKED BY: _____															
SUSSEX																
VEHICULAR DETOUR PLAN POLLY BRANCH RD LOCATIONS 1 & 2				<table border="1" style="width: 100%; text-align: center;"> <tr><td>SHEET NO.</td><td>38</td></tr> <tr><td>TOTAL SHTS.</td><td>52</td></tr> </table>	SHEET NO.	38	TOTAL SHTS.	52								
SHEET NO.	38															
TOTAL SHTS.	52															

G:\SOUTH DIST. SUPPORT\CONTRACTS\1418 CONTRACTS\120180690 CONVERSION ROADS_FY18\PROJECT DEVELOPMENT\CONTRACT PLANS\SEM-FINAL PLANS\38 - S386 POLLY BRANCH RD DETOUR PLAN LOC. 3 N 4.DGN

PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

POLLY BRANCH ROAD

TO CLOSE STARTING XX/XX/XX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-2

POLLY BRANCH RD CLOSED

FOLLOW DETOUR

48" x 69"

Polly Branch Rd CLOSED EAST OF Pepper Rd

FOLLOW DETOUR

Y

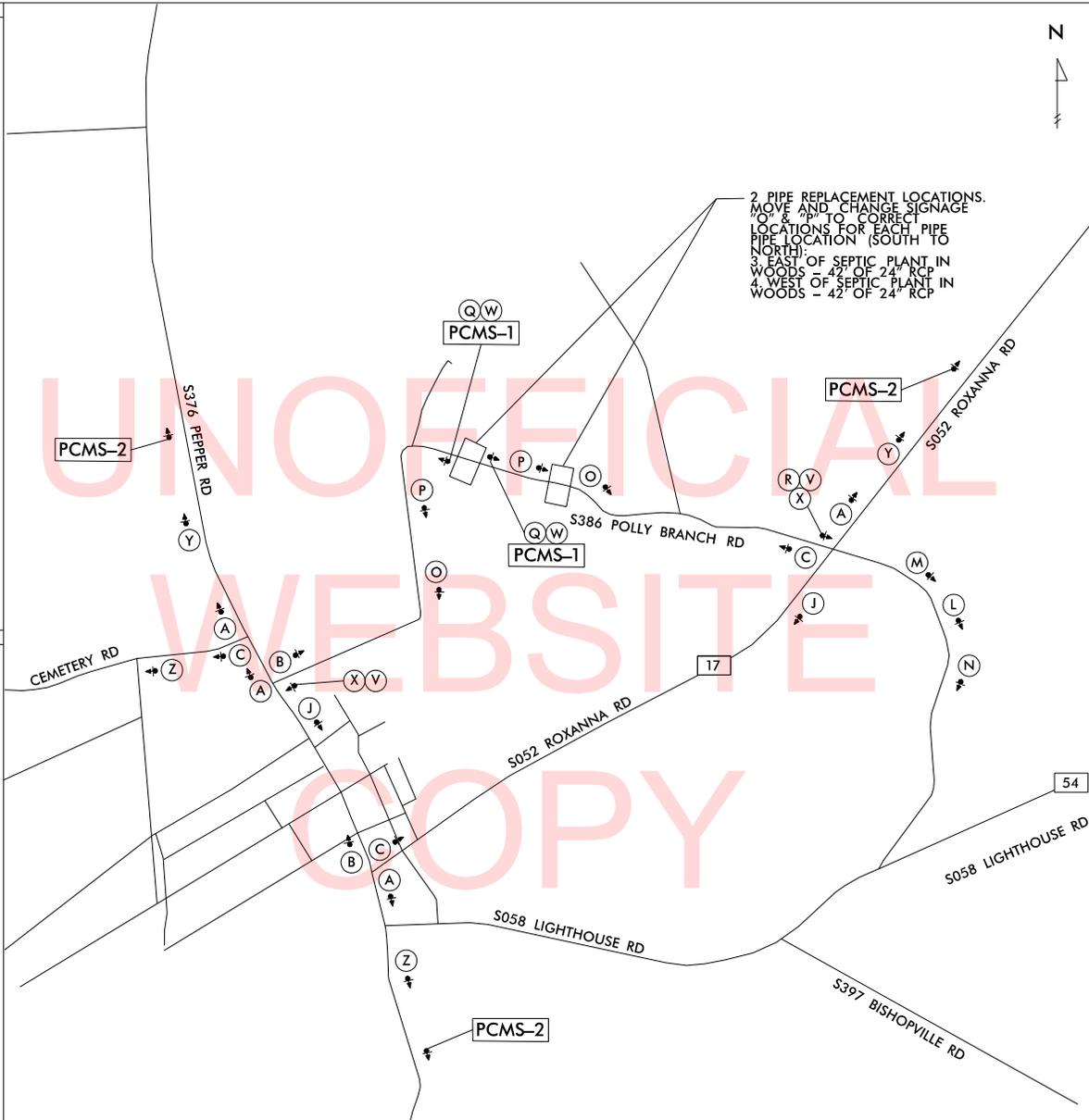
48" x 69"

Polly Branch Rd CLOSED NORTH OF Roxanna Rd

FOLLOW DETOUR

Z

*D/G RETROREFLECTIVE FLOURESCENT ORANGE BACKGROUND; BLACK LEGEND



LEGEND

A	B	C	D	E
DETOUR (up arrow)	DETOUR (left arrow)	DETOUR (right arrow)	DETOUR (down arrow)	DETOUR (diagonal arrow)
F	G	H	I	J
DETOUR (left turn)	DETOUR (right turn)	DETOUR (down turn)	DETOUR (up turn)	END DETOUR
K	L	M		
DETOUR AHEAD	DETOUR 1000 FT	DETOUR 500 FT		
N	O	P		
ROAD CLOSED AHEAD	ROAD CLOSED 1000 FT	ROAD CLOSED 500 FT		
Q	R	S		
ROAD CLOSED	DETOUR (left arrow)	DETOUR (right arrow)		
T	U	V		
ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY	ROAD CLOSED TO THRU TRAFFIC		
W	X			
BARRICADES				

- GENERAL NOTES**
- ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
 - THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION.)
 - DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
 - SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
 - SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
 - FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD) WILL PREVAIL.
 - SIGNS "N" THROUGH "O" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
 - WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLOURESCENT ORANGE SHEETING.
 - "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
 - BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	APPROVED CHIEF SAFETY OFFICER _____ DATE: _____
ADDENDUM / REVISIONS		APPROVED TRAFFIC ENGINEER _____ DATE: _____	DATE: _____
		NOT TO SCALE	CONVERSION ROADS, SOUTH 2018 S386 POLLY BRANCH RD
		CONTRACT 1201806901 COUNTY _____ SUSSEX	PERMIT NO. X DESIGNED BY: MARK HYLBERT CHECKED BY: _____
		VEHICULAR DETOUR PLAN POLLY BRANCH RD LOCATIONS 3 & 4	
		SHEET NO. 39	TOTAL SHTS. 53

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 40 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

**LOCATION 13 442(HOMESTEAD ROAD) FROM S431 (SHORTLY RD) TO S20
(HARDSCRABBLE RD)**

LENGTH 1793.7480 m 5885.0000 L.F. AADT 890

GENERAL IMPROVEMENTS

2" OVERLAY WITH PATCHING, WEDGING AND PIPE REPLACEMENTS

COMMENTS:

DETOUR REQUIRED FOR PIPE REPLACEMENT. SEE DETOUR PLAN IN CONTRACT PACKAGE.

MATERIAL ESTIMATE FOR LOCATION 13

209010	BORROW, TYPE F	67.00	TON
211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00	L.S.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	37.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	1,650.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	17.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	262.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	20.00	TON
402000	BITUMINOUS CONCRETE PATCHING	295.00	SY-IN
601032	REINFORCED CONCRETE PIPE, 15", CLASS IV	40.00	L.F.
601035	REINFORCED CONCRETE PIPE, 24", CLASS IV	45.00	L.F.
762000	SAW CUTTING, BITUMINOUS CONCRETE	176.00	L.F.
762004	BUTT JOINTS	586.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	5.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	272.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	48.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	32.00	S.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	32.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	5,885.00	L.F.
908001	TOPSOIL	198.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	2,871.00	S.Y.

G:\SOUTH_DIST_SUPPORT\CONTRACTS\1718 CONTRACTS\17201806901 CONVERSION ROADS, FY18 PROJECT DEVELOPMENT\CONTRACT PLANS\SEMIFINAL PLANS\4.1 - S442 HOMESTEAD RD DETOUR PLAN.DWG

PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

HOMESTEAD RD

TO CLOSE STARTING XX/XX/XX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-2

HOMESTEAD RD CLOSED

FOLLOW DETOUR

48" x 69"

Homestead Road CLOSED EAST OF Shortly Road	6"C
FOLLOW DETOUR	6"C

Y

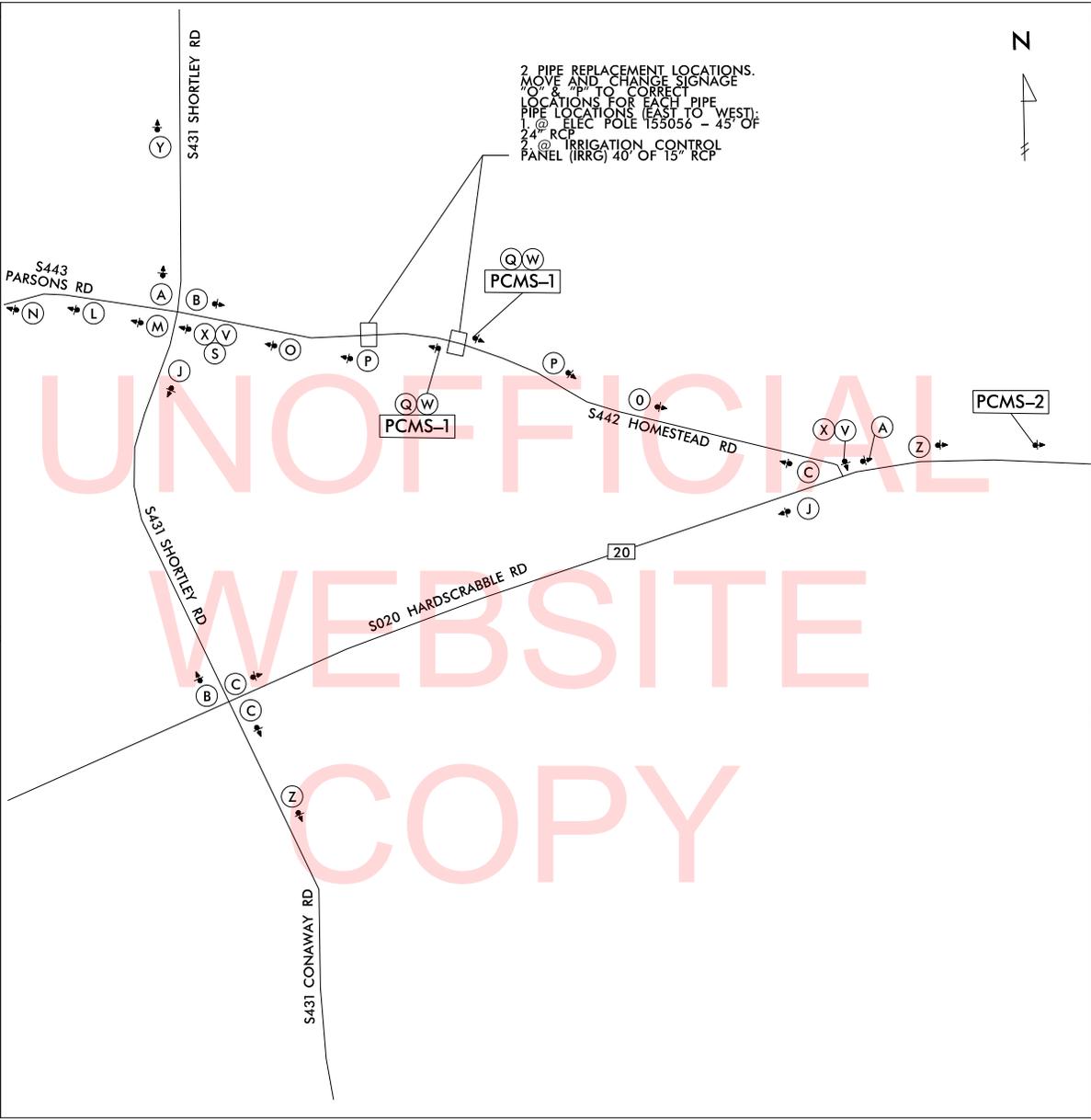
48" x 69"

Homestead Road CLOSED NORTH OF	6"C
(20) ROAD SHIELD	24" DIA
FOLLOW DETOUR	6"C

Z

*ROUTE SHIELD SHOULD BE WHITE BACKGROUND WITH BLACK BORDER AND TEXT

*D/G RETROREFLECTIVE FLOURESCENT ORANGE BACKGROUND; BLACK LEGEND



LEGEND

(A) DETOUR (M4-6)E	(B) DETOUR (M4-6)	(C) DETOUR (M4-6)	(D) DETOUR (M4-6)	(E) DETOUR (M4-6)
(F) DETOUR (M4-6)	(G) DETOUR (M4-6)	(H) DETOUR (M4-6)	(I) DETOUR (M4-6)	(J) END DETOUR (M4-6)
(K) DETOUR AHEAD (W20-2)	(L) DETOUR 1000 FT (W20-2)	(M) DETOUR 500 FT (W20-2)		
(N) ROAD CLOSED AHEAD (W20-3)	(O) ROAD CLOSED 1000 FT (W20-3)	(P) ROAD CLOSED 500 FT (W20-3)		
(Q) ROAD CLOSED (R15-2)	(R) DETOUR (M4-10)I	(S) DETOUR (M4-10)R		
(T) ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY (R11-5a)	(U) BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY (R11-5b)	(V) ROAD CLOSED TO THRU TRAFFIC (R11-1)		
(W) BARRICADE	(X) BARRICADE			

- GENERAL NOTES**
- ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD).
 - THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION).
 - DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
 - SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
 - SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
 - FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD) WILL PREVAIL.
 - SIGNS "N" THROUGH "Q" AND "T" AND "V"; THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
 - WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
 - "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
 - BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	APPROVED CHIEF SAFETY OFFICER _____ DATE: _____												
ADDENDUM / REVISIONS		APPROVED TRAFFIC ENGINEER _____ DATE: _____													
		NOT TO SCALE	CONVERSION ROADS, SOUTH, 2018 S442 HOMESTEAD RD												
		<table border="1" style="font-size: small;"> <tr><td>CONTRACT</td><td>PERMIT NO.</td><td style="text-align: center;">X</td></tr> <tr><td>T201806901</td><td>DESIGNED BY: MARK HYLBERT</td><td></td></tr> <tr><td>COUNTY</td><td>CHECKED BY: _____</td><td></td></tr> <tr><td>SUSSEX</td><td></td><td></td></tr> </table>	CONTRACT	PERMIT NO.	X	T201806901	DESIGNED BY: MARK HYLBERT		COUNTY	CHECKED BY: _____		SUSSEX			VEHICULAR DETOUR PLAN S442 HOMESTEAD RD
CONTRACT	PERMIT NO.	X													
T201806901	DESIGNED BY: MARK HYLBERT														
COUNTY	CHECKED BY: _____														
SUSSEX															
		SHEET NO. 41	TOTAL SHTS. 52												

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 42 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 14 447(JOHNSON ROAD) FROM S62 (E TRAP POND RD) TO S446 (BEAVER DAM BRANCH RD)

LENGTH 4288.5360 m 14070.0000 L.F. AADT 706

GENERAL IMPROVEMENTS

2" OVERLAY WITH WEDGING AND PATCHING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 14

209010	BORROW, TYPE F	460.00	TON
301003	GRADED AGGREGATE BASE COURSE, TYPE B	60.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	3,875.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	10.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	1,810.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	75.00	TON
402000	BITUMINOUS CONCRETE PATCHING	170.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	90.00	L.F.
762004	BUTT JOINTS	1,284.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	8.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	544.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	96.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	64.00	S.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	64.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	24,625.00	L.F.
908001	TOPSOIL	552.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	8,020.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 43 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 15 467(TAYLOR MILL ROAD) FROM S468 (DISCOUNT LAND RD) TO S479 (FIRE TOWER RD)

LENGTH 1421.8920 m 4665.0000 L.F. AADT 737

GENERAL IMPROVEMENTS

2" OVERLAY WITH WEDGING, PATCHING, AND PIPE REPLACEMENTS

COMMENTS:

DETOUR REQUIRED FOR PIPE REPLACEMENT. SEE DETOUR PLAN IN CONTRACT PACKAGE.

MATERIAL ESTIMATE FOR LOCATION 15

209010	BORROW, TYPE F	202.00	TON
211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00	L.S.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	9.00	S.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	37.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	1,287.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	4.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	795.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	20.00	TON
402000	BITUMINOUS CONCRETE PATCHING	64.00	SY-IN
601032	REINFORCED CONCRETE PIPE, 15", CLASS IV	36.00	L.F.
762000	SAW CUTTING, BITUMINOUS CONCRETE	48.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	26.00	L.F.
762004	BUTT JOINTS	402.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	3.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	238.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	42.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	64.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	4,665.00	L.F.
908001	TOPSOIL	197.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	2,849.00	S.Y.

G:\SOUTH DIST SUPPORT\CONTRACTS\Y18 CONTRACTS\T201806901 CONVERSION ROADS, F18 PROJECT DEVELOPMENT\CONTRACT PLANS\SEM-FINAL PLANS\44 - S467 TAYLOR MILL RD DETOUR PLAN.DWG

PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

TAYLOR MILL ROAD

TO CLOSE STARTING XX/XX/XX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-1

TAYLOR MILL RD CLOSED

FOLLOW DETOUR

48"

Taylor Mill Road
CLOSED
EAST OF
Discount
Land Rd

69"

48"

Taylor Mill Road
CLOSED
WEST OF

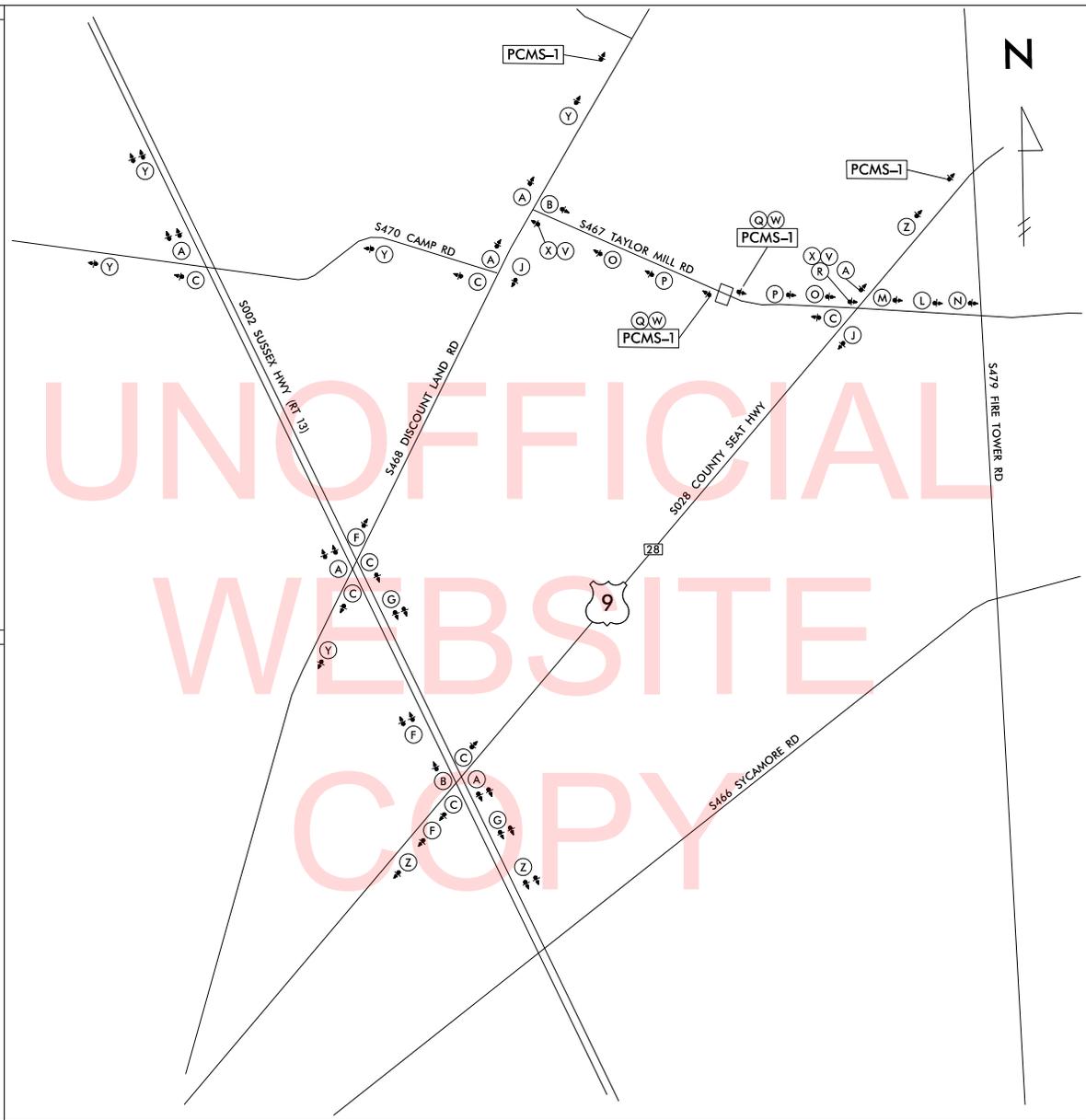
24" DIA

FOLLOW DETOUR

78"

*ROUTE SHIELD SHOULD BE WHITE BACKGROUND WITH BLACK BORDER AND TEXT

*D/G RETROREFLECTIVE FLOURESCENT ORANGE BACKGROUND; BLACK LEGEND



LEGEND

A DETOUR M4-2E	B DETOUR M4-7	C DETOUR M4-3	D DETOUR M4-9	E DETOUR M4-9
F DETOUR M4-7	G DETOUR M4-3	H DETOUR M4-7	I DETOUR M4-9	J END DETOUR M4-2E
K DETOUR AHEAD W20-2	L DETOUR 1000 FT W20-2	M DETOUR 500 FT W20-2		
N ROAD CLOSED AHEAD W20-3	O ROAD CLOSED 1000 FT W20-3	P ROAD CLOSED 500 FT W20-3		
Q ROAD CLOSED R1-2	R DETOUR M4-10(L)	S DETOUR M4-10(R)		
T ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY R1-3c	U BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY R1-3c	V ROAD CLOSED THRU TRAFFIC R1-4		
W 		X 		

- GENERAL NOTES**
1. ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
 2. THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION.)
 3. DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
 4. SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
 5. SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
 6. FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD) WILL PREVAIL.
 7. SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
 8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
 9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
 10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	APPROVED CHIEF SAFETY OFFICER _____ DATE: _____	APPROVED TRAFFIC ENGINEER _____ DATE: _____														
<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>		<p>ADDENDUM / REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>					<p>NOT TO SCALE</p>	<p>CONVERSION ROADS, SOUTH, 2018 S467 TAYLOR MILL RD</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>CONTRACT T201806901</td> <td>PERMIT NO. X</td> </tr> <tr> <td>COUNTY SUSSEX</td> <td>DESIGNED BY: MARK HYLBERT</td> </tr> <tr> <td></td> <td>CHECKED BY: _____</td> </tr> </table>	CONTRACT T201806901	PERMIT NO. X	COUNTY SUSSEX	DESIGNED BY: MARK HYLBERT		CHECKED BY: _____	<p>VEHICULAR DETOUR PLAN S467 TAYLOR MILL RD</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SHEET NO. 44</td> <td>TOTAL SHTS. 52</td> </tr> </table>	SHEET NO. 44	TOTAL SHTS. 52
CONTRACT T201806901	PERMIT NO. X																	
COUNTY SUSSEX	DESIGNED BY: MARK HYLBERT																	
	CHECKED BY: _____																	
SHEET NO. 44	TOTAL SHTS. 52																	

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 45 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 16 470(CAMP ROAD) FROM S2 (SUSSEX HWY) TO S468 (DISCOUNT LAND RD)

LENGTH 937.2600 m 3075.0000 L.F. AADT 712

GENERAL IMPROVEMENTS

2" OVERLAY WITH WEDGING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 16

209010	BORROW, TYPE F	89.00	TON
301003	GRADED AGGREGATE BASE COURSE, TYPE B	24.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	886.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	350.00	TON
762004	BUTT JOINTS	158.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	136.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	24.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	32.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	5,382.00	L.F.
908001	TOPSOIL	118.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	1,708.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 46 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 17 484(FLEETWOOD POND ROAD) FROM S20 (CONCORD RD) TO S46 (OLD FURNACE RD)

LENGTH 5952.1344 m 19528.0000 L.F. AADT 794

GENERAL IMPROVEMENTS

2.5" OVERLAY WITH PATCHING, GUARDRAIL, AND PIPE REPLACEMENT

COMMENTS:

DETOUR REQUIRED FOR PIPE REPLACEMENT. SEE DETOUR PLAN IN CONTRACT PACKAGE. ALSO SEE GUARDRAIL DETAIL IN CONTRACT PACKAGE.

MATERIAL ESTIMATE FOR LOCATION 17

211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00	L.S.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	23.00	S.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	120.00	TON
302005	DELAWARE NO. 57 STONE	50.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	7,498.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	20.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	120.00	TON
402000	BITUMINOUS CONCRETE PATCHING	337.00	SY-IN
601040	REINFORCED CONCRETE PIPE, 42", CLASS IV	50.00	L.F.
720021	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	100.00	L.F.
720028	CURVED GUARDRAIL SECTION	18.75	L.F.
760034	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-27	37.50	L.F.
721001	GUARDRAIL END TREATMENT, TYPE 1-31, TEST LEVEL 3	3.00	EACH
721002	GUARDRAIL END TREATMENT, TYPE 2-31, TEST LEVEL 2	1.00	EACH
721005	GUARDRAIL END TREATMENT, TYPE 4-27	1.00	EACH
721007	ENTRANCE SPECIAL END ANCHORAGE	1.00	EACH
721014	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27	1.00	EACH
762000	SAW CUTTING, BITUMINOUS CONCRETE	172.00	L.F.
762004	BUTT JOINTS	990.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	12.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	680.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	120.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	64.00	S.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	16.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	9,764.00	L.F.
908001	TOPSOIL	923.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	10,849.00	S.Y.

G:\SOUTH_DIST_SUPPORT\CONTRACTS\170186901 CONVERSION ROADS_FY18 PROJECT DEVELOPMENT\CONTRACT PLANS\SEM-FINAL PLANS\4.7 - S484 FLEETWOOD POND RD DETOUR PLAN.DWG

PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

FLEETWOOD POND RD

TO CLOSE STARTING XX/XX/XX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-1

FLEETWOOD POND RD

CLOSED FOLLOW DETOUR

48"

78"

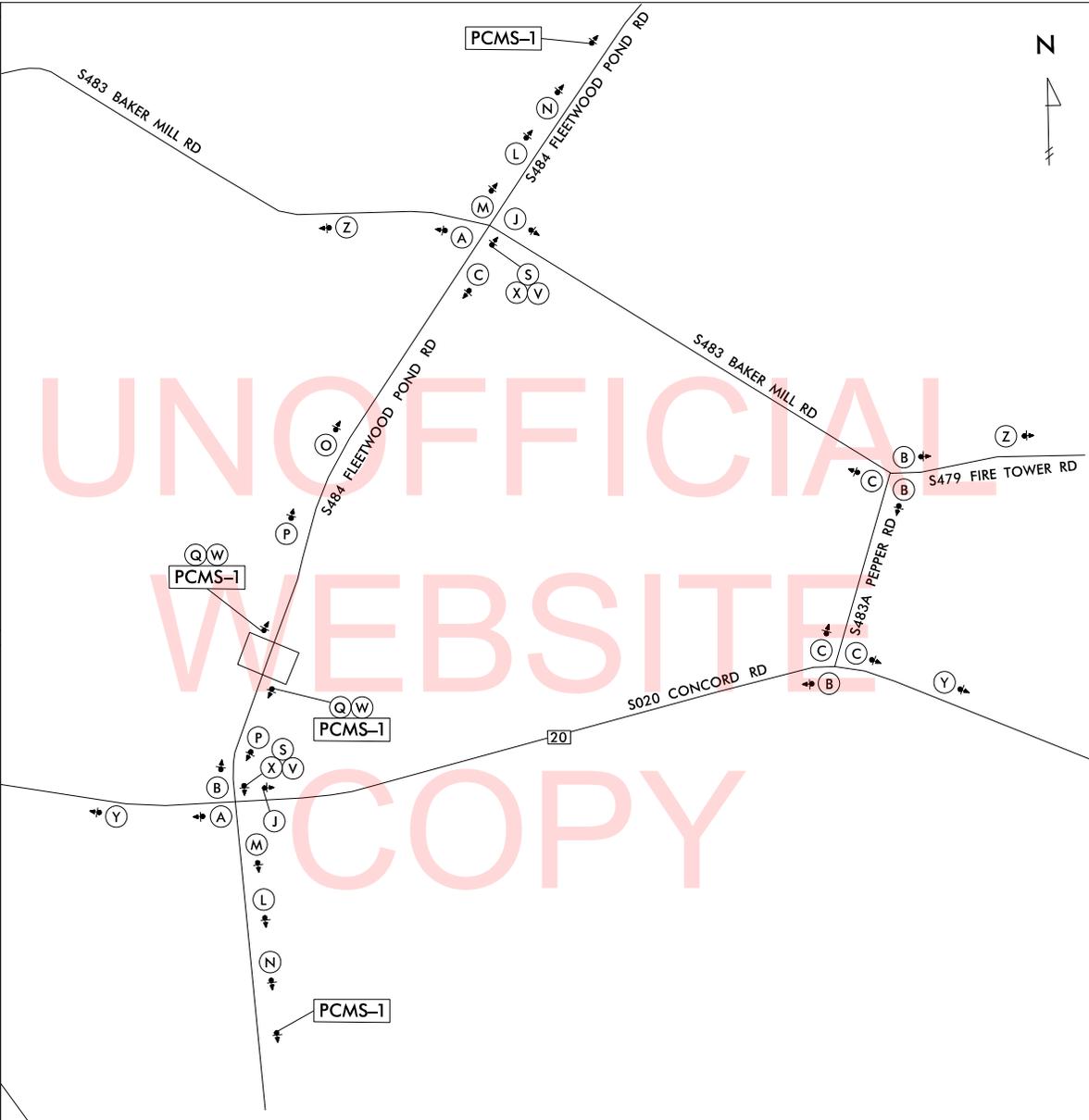
Y

48"

Z

*ROUTE SHIELD SHOULD BE WHITE BACKGROUND WITH BLACK BORDER AND TEXT

*D/G RETROREFLECTIVE FLOURESCENT ORANGE BACKGROUND; BLACK LEGEND



LEGEND

- GENERAL NOTES**
1. ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD).
 2. THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION).
 3. DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
 4. SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
 5. SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
 6. FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD) WILL PREVAIL.
 7. SIGNS "N" THROUGH "O" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
 8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETINGS.
 9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
 10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	APPROVED CHIEF SAFETY OFFICER _____ DATE: _____	APPROVED TRAFFIC ENGINEER _____ DATE: _____			
<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUM / REVISIONS	NOT TO SCALE	CONVERSION ROADS, SOUTH, 2018 S484 FLEETWOOD POND RD	CONTRACT T201806901	PERMIT NO. X	VEHICULAR DETOUR PLAN S484 FLEETWOOD POND RD	SHEET NO. 47
				DESIGNED BY: MARK HYLBERT	TOTAL SHTS. 52		
				CHECKED BY: _____			

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 49 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 18 588(UNIVERSITY ROAD) FROM S16 (HICKMAN RD) TO S589 (GREENWOOD RD)

LENGTH 1158.2400 m 3800.0000 L.F. AADT 676

**GENERAL IMPROVEMENTS
2" OVERLAY WITH WEDGING AND PATCHING**

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 18

209010	BORROW, TYPE F	22.00	TON
301003	GRADED AGGREGATE BASE COURSE, TYPE B	8.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	1,077.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	8.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	86.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	28.00	TON
402000	BITUMINOUS CONCRETE PATCHING	134.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	80.00	L.F.
762004	BUTT JOINTS	611.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	3.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	170.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	30.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	32.00	S.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	16.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	2,850.00	L.F.
908001	TOPSOIL	122.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	1,773.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 50 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

LOCATION 19 612(WOODYARD ROAD) FROM S4 (SUSSEX HWY) TO KENT COUNTY LINE

LENGTH 1758.6960 m 5770.0000 L.F. AADT 707

GENERAL IMPROVEMENTS

2" OVERLAY WITH WEDGING AND GUARDRAIL

COMMENTS:

SEE GUARDRAIL DETAIL IN CONTRACT PACKAGE.

MATERIAL ESTIMATE FOR LOCATION 19

209010	BORROW, TYPE F	158.00	TON
211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00	L.S.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	16.00	S.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	30.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	1,679.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	622.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	40.00	TON
720026	GUARDRAIL OVER CULVERTS, TYPE 3-31	2.00	EACH
720028	CURVED GUARDRAIL SECTION	37.50	L.F.
721001	GUARDRAIL END TREATMENT, TYPE 1-31, TEST LEVEL 3	2.00	EACH
721007	ENTRANCE SPECIAL END ANCHORAGE	2.00	EACH
762001	SAW CUTTING, CONCRETE, FULL DEPTH	48.00	L.F.
762004	BUTT JOINTS	332.00	S.Y.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	238.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	42.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	32.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	4,357.00	L.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	8,655.00	L.F.
908001	TOPSOIL	219.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	3,172.00	S.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

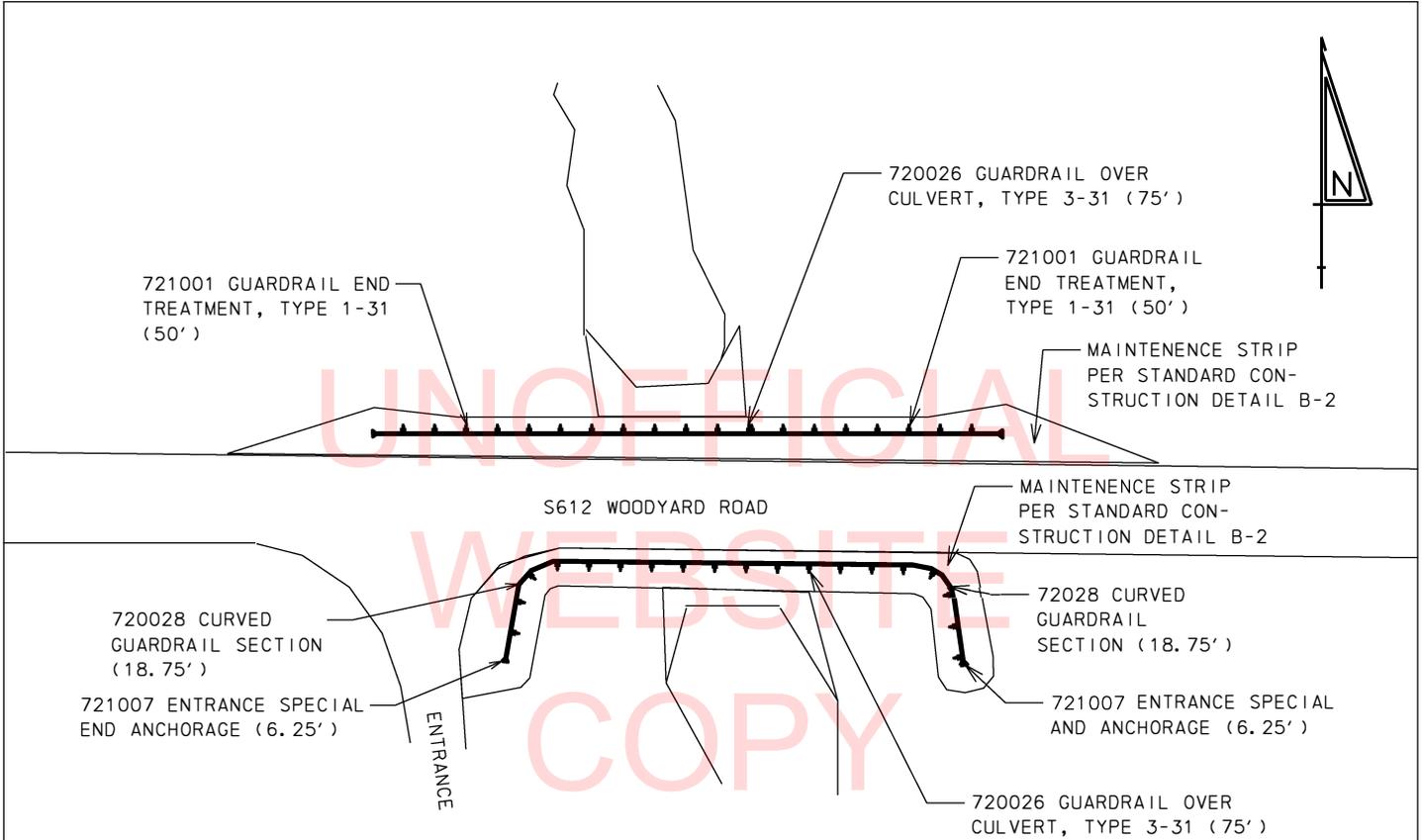
CONTRACT T201806901

PAGE 51 OF 53

SOUTH DISTRICT

GUARDRAIL , SOUTH, 2018

LOCATION 19 - S612 (WOODYARD ROAD)
BETWEEN S4 (SUSSEX HWY) AND KENT COUNTY LINE



NOTES:

- THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING GUARDRAIL OR END SECTIONS WHILE LEAVING THE SITE UNPROTECTED. THE USE OF PORTABLE BARRIER / CRASH CUSHIONS MAY BE USED IN ACCORDANCE WITH THE TRAFFIC CONTROL MANUAL SECTIONS 6F.85 & 6F.86 TO PROTECT SUCH LOCATIONS. THIS WORK SHALL BE INCIDENTAL TO THE WORK IT PROTECTS.
- ALL CONCRETE ANCHOR BLOCKS LEFT FROM TWISTED END TREATMENTS OR END ANCHORAGES SHALL BE REMOVED AND IS INCIDENTAL TO ITEM 211000. REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL) VOIDS SHALL BE FILLED WITH ITEM 301003 GABC OR AS DIRECTED BY THE INSPECTOR.
- ITEM 401005 [SUPERPAVE, TYPE C, PG64-22 (CARBONATE STONE)] AND ITEM 302005 (GABC, TYPE B) SHALL BE USED TO EXTEND HOT MIX MAINTENANCE STRIPS AS NEEDED AT END TREATMENTS. THE NEW MAINTENANCE STRIPS SHALL BE MADE UP OF 2" TYPE C HOT MIX OVER 4" GABC AT A WIDTH OF 2' TO 4' BY THE LENGTH OF THE GUARDRAIL / END TREATMENT. THE ACTUAL SIZE AND DEPTH OF MAINTENANCE STRIPS WILL VARY BY LOCATION. EXCAVATION FOR MAINTENANCE STRIPS SHALL BE PAID AS 211000.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY TREES AND BRUSH WITHIN 4' OF THE BACK OF THE EXISTING OR PROPOSED GUARDRAIL. SUCH REMOVAL SHALL BE INCIDENTAL TO THE GUARDRAIL ITEM BEING INSTALLED.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CURVED RADIUS SECTIONS FOR PROPER FIT PRIOR TO INSTALLING GUARDRAIL.
- THE MAINTENANCE STRIPS SHALL EXTEND TO A MINIMUM OF 1' BEHIND THE GUARDRAIL POSTS TO ENSURE ACCEPTABLE APPROACH SLOPES PER STANDARD DELDOT MAINTENANCE DETAILS.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 52 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

CONTRACT QUANTITIES SUMMARY SHEET

209010	BORROW, TYPE F	1,547.00	TON
211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00	L.S.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	126.00	S.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	907.00	TON
302005	DELAWARE NO. 57 STONE	280.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	36,702.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	316.00	TON
401037	SUPERPAVE TYPE B, PG 64-22, WEDGE	6,515.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	798.00	TON
402000	BITUMINOUS CONCRETE PATCHING	5,379.00	SY-IN
601031	REINFORCED CONCRETE PIPE, 12" CLASS IV	48.00	L.F.
601032	REINFORCED CONCRETE PIPE, 15", CLASS IV	358.00	L.F.
601033	REINFORCED CONCRETE PIPE, 18", CLASS IV	46.00	L.F.
601035	REINFORCED CONCRETE PIPE, 24", CLASS IV	167.00	L.F.
601037	REINFORCED CONCRETE PIPE, 30", CLASS IV	192.00	L.F.
601040	REINFORCED CONCRETE PIPE, 42", CLASS IV	50.00	L.F.
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	10.00	EACH
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	20.00	S.F.
705008	CURB RAMP, TYPE 1	150.00	S.F.
710002	ADJUST WATER VALVE BOXES	3.00	EACH
720021	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	100.00	L.F.
720026	GUARDRAIL OVER CULVERTS, TYPE 3-31	2.00	EACH
720028	CURVED GUARDRAIL SECTION	56.25	L.F.
720034	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-27	37.50	L.F.
721001	GUARDRAIL END TREATMENT, TYPE 1-31, TEST LEVEL 3	5.00	EACH
721002	GUARDRAIL END TREATMENT, TYPE 2-31, TEST LEVEL 2	1.00	EACH
721005	GUARDRAIL END TREATMENT, TYPE 4-27	1.00	EACH

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201806901

PAGE 53 OF 53

SOUTH MAINTENANCE CONVERSION ROADS, SOUTH, 2018

CONTRACT QUANTITIES SUMMARY SHEET

721007	ENTRANCE SPECIAL END ANCHORAGE	3.00	EACH
721014	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27	1.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	8,000.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	2,969.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	220.00	L.F.
762004	BUTT JOINTS	10,257.00	S.Y.
763000	INITIAL EXPENSE/DE-MOBILIZATION	LUMP	SUM
801500	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP	SUM
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	93.00	EA-DY
811003	FLAGGER, SUSSEX COUNTY, STATE	5,508.00	HOURL
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	972.00	HOURL
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	758.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	42,221.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	304.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	143,544.00	L.F.
908001	TOPSOIL	4,565.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	62,119.00	S.Y.