## DOVER/KENT COUNTY METROPOLITAN PLANNING ORGANIZATION

#### TRANSPORTATION IMPROVEMENT PROGRAM FISCAL YEARS 2020-2023

Adopted: May 1, 2019

Prepared by the **Dover/Kent County Metropolitan Planning Organization Council** 

The preparation of this document was financed in part with funds provided by the Federal Government, including the Federal Transit Administration, through the Joint Simplification Program, and the Federal Highway Administration of the United States Department of Transportation.

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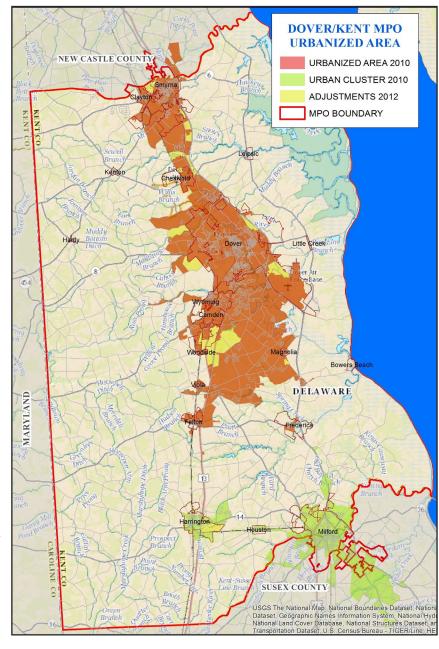
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#### **Background**

The Dover/Kent County Metropolitan Planning Organization (Dover/Kent County MPO) is the transportation planning organization for the Dover, Delaware urbanized area. The Dover/Kent County MPO was established in 1992 under the mandates of the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991, which continued the requirement that a metropolitan planning process be established in urbanized areas with a population greater than 50,000. The Dover urbanized area exceeded that threshold by the 1990 U.S. Census of Population, with a figure of 50,757. The MPO subsequently officially expanded the area of responsibility to Kent County and its municipalities including the portions of Milford and Smyrna in the neighboring counties. In 2010, the urbanized area population was determined to be 110,769 persons, a 75% increase from the 2000 population of 65,044. The population of Kent County grew from 126,697 in 2000 to 162,310 persons in the 2010 decennial census, a 28% increase. The 2017 Kent county population census, the last estimated, was estimated to be 176,824 persons, representing a 8.9% increase since 2010. The Delaware Population Consortium projection for 2050, the longest projected, is 215,279 persons.

Transportation funding was reauthorized as Moving Ahead for Progress in the 21<sup>st</sup> century (MAP-21) in FFY2012 and FFY2013 and enjoyed continuing resolutions through 12/4/2015. That is when the newest multi-year authorization, Fixing America's Surface Transportation (FAST) Act, was signed. A provision in MAP-21 was to create a monitoring system for the efficacy of the federal funding, collectively called Performance Measures. These are now required of the MPO and all DOT's. These are discussed toward the end of this narrative on page 12.

The Transportation Improvement Program (TIP) is one of the



products that the federal legislation has continually required a metropolitan planning organization to prepare at least every four years. The purpose of the TIP is to disclose transportation projects for which federal funding will be sought over a four year period. The TIP should reflect the region's priorities, represent a consensus among state and local officials, show a direct relationship to the regional transportation plan, be financially constrained, and conform with federal air quality regulations as they relate to transportation. Finally, the TIP must be subjected to thorough public review during development and prior to adoption. The Dover/Kent County MPO produces TIPs more frequently to reflect the nature of Delaware's budgeting and legislative process.

The FY 2020-2023 TIP differs little from the preceding (FY 2019-2022) TIP. The preceding TIP was the first to summarize the budgets and locations of "state of good repair" activities. The previous amended TIP was prepared from the FY 2019-2024 Capital Transportation Program (CTP) and influenced by the MPO's 2040 Metropolitan Transportation Plan (MTP) adopted January 4, 2017. This document was prepared with the benefit of a draft FY 2020-2025 CTP. The CTP again combined the bridge projects and reported them as a category of improvements, The smaller safety projects were categorized as well. This document, specifically Appendix A, presents these categories as a summary allocation and lists the component projects. The safety projects were indicated in the TIP as Highway Safety Improvement Projects (HSIP) or Hazard Elimination Program (HEP). The larger, more involved and costly of these projects will still be reported individually but the smaller projects will be part of a summary budget with a project listing in the future.

In 2015, the MPO began an update process to identify appropriate projects to recommend for funding in future CTP's. The MPO established a Working Group to develop criteria and a scoring rubric to identify the most important projects to prioritize. The working group chose to accept the software and technical assistance provided by DelDOT with Decisions Lens<sup>®</sup>. The Working Group developed the inputs into the prioritization model and have identified which criteria is most important to weight the project scores. The rubric they developed went through a few minimal changes and was used to prioritize projects in the 2017 Metropolitan Transportation Plan (MTP). The model has been used since to prioritize study requests from MPO partners and constituents.

Public input was solicited from residents of the county, as well as from the Public Advisory Committee (PAC) meetings held primarily at the Town of Camden Town Hall meeting room and a periodic bus tour. The MPO will repeat the bus tours as new significant projects are added to the CTP/TIP. Beginning in 2014, the MPO prepared a virtual tour of the highway projects that are funded during the TIP period. This virtual tour has offered a mechanism for constituents to view a summary of the projects included in the TIP in years the bus tour isn't necessary. The virtual tours, along with an introduction and conclusion, have been included on the MPO's website at <a href="http://doverkentmpo.delaware.gov/projects/video-trail/">http://doverkentmpo.delaware.gov/projects/video-trail/</a> Staff determined there aren't sufficient new projects to repeat the bus tour in 2020 but will update the virtual tour with the new projects added.

The funds anticipated to be used for the Kent County projects (not the greater MPO area) in the TIP during FY 2018 - FY 2021 are shown below.

	<u>Total Amount</u>	Federal Share
FY 2020	\$26,239,137	\$ 9,928,596
FY 2021	\$30,171,627	\$18,900,541
FY 2022	\$24,712,300	\$17,737,700
FY 2023	\$39,894,700	\$30,495,720

In addition to this funding for new projects, DelDOT maintains and operates the transportation system under statewide categories such as bridge inspection, pavement rehabilitation, roadway signage, intersection improvements, bicycle and pedestrian improvements and statewide transit services and equipment. The actual amount of funds to be spent from these statewide categories in the MPO's region cannot always be determined since projects are selected based on statewide needs. A small percentage of costs for Statewide Projects within the MPO's region are federally funded. This MPO TIP will be submitted to DelDOT as the region's input for the FY 2020-FY 2023 Statewide Transportation Improvement Program (STIP).

#### **Regional Goals**

Kent County has a diverse economy and population. The City of Dover is a strong metropolitan hub situated in the center of the county in a growth corridor that extends from Smyrna to the north and Milford and Harrington to the south. Inside the functional growth corridor and actual Kent County Growth Zone are the largest employers, including Dover Air Force Base, the State of Delaware, Kraft General Foods USA, BayHealth Medical Center, the Eagle Group, General Metalcraft Inc., Proctor and Gamble, Inc., and ILC Dover, Inc. The regional warehouse of Wal-Mart, located in Smyrna, has also been playing a greater role in the economic integrity of the area, as will the proposed apron for private jets, large and small, at the Dover Air Force Base and the nearby commercial/industrial area that is part of the Kent County 2018 comprehensive plan. Outside of the growth corridor, the County's economy is predominantly agricultural, including a well-established but dwindling Amish community. The presence of three four-year colleges, one two-year college and their satellite locations enhances the region's ability to attract and maintain a diverse community.

On January 4, 2017, the MPO adopted its new 2040 Metropolitan Transportation Plan (MTP), the MPO's long-range transportation plan (LRTP). The MTP, which has greater than a 20-year planning horizon, assesses the region's short-term improvement needs, projects future needs, projects the funds available, and identified goals and objectives to meet those needs. The MTP was financially reasonable and resulted in a positive impact on the region's air quality. The regional planning process was coordinated with DelDOT's statewide planning process, the Office of State Planning Coordination's State Strategies for Policies and Spending, Kent County's Comprehensive Plan, and the Comprehensive Plans of all municipalities and other plans in the region.

The MTP provides a framework to guide all future transportation planning and programming activities. The following goals are identified for Kent County:

- Move People Safely and Efficiently
- Strengthen Communities
- Promote Economic Development

A hierarchy of fundamental strategies supports these goals and further guides transportation planning and programming decisions:

- Maintain existing infrastructure
- Shorten project delivery
- Improve accessibility for all users
- Maximize transit ridership
- Minimize average delay times
- Enhance human health
- Preserve Natural Resources/Enhance community resources
- Maintain effective transportation networks
- Ensure economic development is considered in project prioritization
- Evaluate the transportation needs of designated and proposed economic growth areas

Projects in the FY2020-2023 TIP were drawn from the 2040 MTP. The MTP will be updated in January 2021 and the MPO will be putting it together beginning in 2020.

#### **The Prioritization Process**

In the most recent long range plan, the MPO, led by the Technical Advisory Committee, maintained the status quo for the project prioritization completed for the Metropolitan Transportation Plan. Delaware is in a unique position, as the state maintains over 90% of the roads on the state. There has been a renewed attempt to create a planning process where the TIP is produced by the MPO or projects are at least recommended to the DOT that become a portion of the CTP. This attempt follows that of the Department of Transportation's critical analysis that changed their project ranking process and results and changed the Projects List significantly for FY 2015 and continued into this FY2020-FY2023 TIP. The MPO and the Department are finding their way through the dual challenges of funding the most important projects while attempting to meet a budget. This TIP implements a new approach by the Department to developing the CTP while the MPO attempts to build a process built upon the same prioritizing software using a new set of criteria defined with our partners. They are System Operating Effectiveness, Safety, Environmental Impact/Stewardship, Revenue Generation/Economic Development/Jobs and Commerce, Supports Freight Movement, Multi-Modal Feasibility/Access, Impact on the Public/Social Disruption and Economic Justice, Community Priorities, and The State Strategies for Policies and Spending.

The previous method of scoring project prioritization was based on the 10 factors described in Table 1 with a less mathematical system of 'weighting' project scores. An original attempt to realign the scoring of projects for prioritization was made by adding two additional factors; support for the community's comprehensive plan and support for the regional growth management plans. The attempt became an interim one as it was determined that the MPO should consider implementing a wholesale change in how projects are viewed. In fact, the prospective changed from one of nominated project analysis and scoring to one of problem analysis and scoring. Rather than asking communities to nominate presumed solutions, the MPO asked them to nominate problems that they experience in the transportation system of their community. The problems will be prioritized using the approach developed by the Working Group. The project prioritization of all MTP projects using the process was sufficient to maintain for the length of the MTP. There was no attempt made to reclassify projects for consideration in the TIP. The prioritized list developed for the Long Range Plan continues to be the list presented to DelDOT for the new CTP.

The same model and software are being used to prioritize planning study requests from the MPO partners when they are submitted.

Table 1. Factors, Definitions and Weights for TIP Project Scoring

Previous Factors	Weight	Current Factors: Weights based upon the votes of the whole working group.	Relative Weight
Safety	0.20	Safety	11.9%
Support for Comprehensive/ Community Plans	0.20	System Operating Effectiveness	9.2%
Environmental Justice	0.10	Environmental Impact/Stewardship	10.0%
Transit	0.05	Revenue Generation/Economic Development/Jobs and Commerce	10.0%
Pedestrian/Bicycle Travel	0.05	Supports Freight Movement	6.1%
Environmental Impacts	0.03	Multi-Modal Feasibility/Access	14.6%
Economic Impacts	0.05	Impact on the Public/Social Disruption and Economic Justice	10.5%
System Continuity	0.10	Community Priorities	11.9%
Sustainability	0.02	The State Strategies for Policies and Spending	15.7%
Consistency with the Long-Range Transportation Plan	0.20		
Total	1.00		100%

#### **Public Participation**

Public review is an integral aspect of the TIP process. Public participation was solicited through PAC, TAC and Council meetings and with a virtual tour online. As a year-round alternative, the MPO is producing an interactive map that shows all projects from the TIP as well as various other plans and programs the MPO is producing or tracking.

The MPO will offer the opportunity for public comment when released to the PAC and TAC during their public meetings in April, to be finished before the next Council meeting of May 1, 2019. News releases and advisories publicizing all related meetings with an opportunity to comment are posted on the MPO's website and sent to members of each MPO committee, print and electronic media outlets, each of the libraries in Kent County, state legislators representing Kent County and contiguous areas, Kent County Levy Court, mayors of Kent County municipalities, and Dover City Council. Copies of the draft TIP will be made available to anyone who asks. The draft document is to be posted on the MPO's website. If amendments are required when the CTP is finalized by the State Legislature on June 30, a separate public comment period will be offered.

To comply with the requirements of Title VI, with reference to the FY 2020-2023 TIP. when a proposed project is located in an Environmental Justice (EJ) neighborhood, special measures are taken to reach out to those who would be affected.

#### **Air Quality Conformity**

#### Overview

Kent County is part of the Philadelphia-Wilmington-Trenton non-attainment area, though it was not cited as a non-attainment county. As the federally-designated Metropolitan Planning Organization for Kent County, Delaware, the MPO is responsible for assessing air quality impacts of this TIP. The Southcoast Air Quality Management Area vs EPA lawsuit resulted in our MPO area not being in conformity for ozone. The MPO will be responsible for a conformity analysis for this and future TIP's. The MPO obtained a conformity analysis as the TIP was being developed and comment periods were run concurrently. The analysis showed that we are and will be within the air quality budgets established by Delaware's Division of Natural Resources and Environmental Control (DNREC). Therefore the activities and projects of the TIP will not create additional negative air quality impacts. The FY 2020-2023 TIP complies with the requirements of the 1990 Clean Air Act and subsequent amendments (CAA).

#### The FY 2020-2023 TIP

The projects in the FY 2020-2023 TIP are represented in the 2040 MTP. The projects in the TIP are only a small portion of those in the MTP. There have been changes to the project list and scope of the projects. Any regionally significant projects were included in the 2019 Conformity Analysis. The modeling process completed for the FY2020-2023 TIP was an accurate analysis of air quality impacts. The results of the modeling process undertaken at this time can be found with the FY2020-2023 TIP on the MPO website at http://doverkentmpo.delaware.gov/programs/.

#### Determination

The Dover/Kent County MPO FY2020-2023 Transportation Improvement Program conforms to the State Implementation Plan (SIP).

#### **Program Categories and Project List**

This FY 2020-2023 TIP mirrors DelDOT's FY 2020-2025 Draft CTP developed before the State budget is to be adopted at the end of June, 2019. The projects and funded amounts included in this FY 2020-2023 TIP reflect the amounts proposed to be allocated in the FY 2020-2025 CTP for years FY2020 through 2023. The Fiscal Constraint documentation was prepared using the Kent County and statewide budgets provided by the State Department of Transportation. Projects are divided according to the portion of the transportation system in which each is allocated – Road System: Expressways, Arterials, Collectors, Locals, Bridges and Transit Facilities and Transit Vehicles.

Table 2 on the following pages, lists Statewide projects and programs for which funding is being requested for fiscal years 2020, 2021, 2022, and 2023. These are predominantly funding programs that include projects in all three Delaware counties. More information about process and previous CTP's is located at http://deldot.gov/information/pubs forms/CTP/index.shtml.

Appendix A lists the projects in the MPO's planning area for which funding is being requested for fiscal years 2020, 2021, 2022, and 2023. The majority of the projects in this TIP are Road System projects. The appendix provides a project description, location map and, if available, pictures of each project. Funding, both authorizations and expense are listed in thousands of dollars for each project in each year of the TIP.

Appendix C is the TIP Financial Plan and evidence of Fiscal Constraint.

Appendix D lists projects which have been submitted to the TIP through the MTP, but have not been funded. Once a project is submitted to the TIP, it is kept on the prioritized list until it is funded or the MPO decides to remove it. In the past, the MPO included an Annual Listing of Obligated Projects as Appendix E. The document is required to be made available 90 days after the end of the fiscal year, September 30. If the schedule for the TIP development changes and the periods align, the MPO will consider renewing this appendix.

Appendix E is the list of projects and their phase funded in the CTP for Kent County (E-A) and for Statewide projects (E-B).

Appendix F is the most recent list of Traffic Analysis Zones (TAZ) population and households projected by the Dover/Kent County MPO, based on County projections data from the Delaware Population Consortium. The Consortium is supported by the University of Delaware Center for Applied Demography and Survey Research (CADSR).

Appendix G is a new Appendix that, for now, is a resource for the performance measurement targets the MPO will use to assess and direct the program. Future versions of this appendix will compare the progress made by the MPO in meeting these targets.

Appendix H is the 2019 Conformity Analysis attached by reference and offered for public scrutiny at the same time as the FY2020-2023 TIP.

Table 2: FY 2019-2022 Identified Statewide Projects (x \$000)

PROJECT (x000)	FY 2019 TOTAL	FY 2020 TOTAL	FY 2021 TOTAL	FY 2022 TOTAL	2019-2022 TOTAL
ROAD SYSTEMS					
BRIDGES	87,192.9	59,414.2	64,285.6	64,410.0	275,302.7
Bridge Management	6,337.5	7,846.5	7,446.8	6,881.8	28,512.6
Bridge Inspection	4,726.5	4,371.8	4,328.8	4,618.2	27,503.6
Bridge Painting	6,341.9	3,000.0	3,000.0	3,500.0	15, 841.9
Bridges	69,787.0	44,195.9	49,500.0	49,410.0	212,892.9
DAMS	5,314.6	2,730.0	2,800.0	2,700.0	13,544.6
TRANSPORTATION ALTERNATIVES PROGRAM SUMMARY	6,438.6	5,164.0	5,164.0	5,164.0	21,930.6
Transportation Alternatives Program (FHWA)	6,238.6	4,964.0	4,964.0	4,964.0	21,130.6
Transportation Alternatives Program (FTA)	200.0	200.0	200.0	200.0	800.0
BICYCLE, PEDESTRIAN AND OTHER IMPROVEMENTS	7,150.0	11,100.0	4,000.0	4,000.0	26,250.0
ENGINEERING & CONTINGENCY	30,805.0	30,890.0	30,745.0	30,745.0	123,185.0
ENVIRONMENTAL IMPROVEMENTS	563.0	563.0	563.0	563.0	2,252.0
INTERSECTION IMPROVEMENTS	7,850.0	7,800.0	7,850.0	7,600.0	30,770.0
RECREATIONAL TRAILS	1,132.1	1,132.1	1,132.1	1,132.1	4,528.4
MATERIALS & MINOR CONTRACTS	11,000.0	8,000.0	8,000.0	8,000.0	35,000.0
CORRIDOR CAPACITY PRESERVATION	1,000.0	1,000.0	1,000.0	1,000.0	4,000.0

	FY 2019	FY 2020	FY 2021	FY 2022	2019-2022
PROJECT (x000)	<b>TOTAL</b>	TOTAL	TOTAL	<b>TOTAL</b>	TOTAL
PAVING &	<b>=2</b> 000 0	<b></b> 000 0	00.000.0	00.000.0	210,000,0
REHABILITATION	73,800.0	75,000.0	80,000.0	80,000.0	310,000.0
SLOPE STABILIZATION PROGRAM	5,000.0	2,500.0	3,250.0	2,500.0	13,250.0
SAFE ROUTES TO SCHOOL	0.0	0.0	0.0	0.0	0.0
SCENIC BYWAYS	278.0	0.0	0.0	0.0	278.0
SIGNAGE & PAVEMENT MARKINGS	6,512.5	6,714.5	6,714.5	6,714.5	26,656.0
RAIL CROSSING SAFETY	1,581.1	1,660.9	1,361.1	1,361.1	5,693.3
RIDE ABILITY	100.0	100.0	100.0	100.0	400.0
SAFETY	13,146.4	11,447.7	10,186.6	10,186.6	44,967.3
HAZARD ELIMINATION PROGRAM	1,944.4	2,444.4	2,444.4	2,444.4	9,277.6
HIGH RISK RURAL ROADS PROGRAM	1,000.0	0.0	0.0	0.0	1,000.0
SECTION 154 PENALTY TRANSFER PROGRAM	5,868.7	2,408.9	2,408.9	2,408.9	,
SAFETY PROGRAM 80/20	2,500.0	2,500.0	2,500.0	2,500.0	10,000.0
SAFETY PROGRAM 90/10	1,833.3	637.5	2,833.3	2,833.3	
TRAFFIC CALMING	200.0	150.0	200.0	200.0	750.0
STATEWIDE INDUSTRIAL STREETS	0.0	0.0	0.0	0.0	0.0
PEDESTRIAN ADA ACCESSIBILITY	3,000.0	3,040.0	3,000.0	3,000.0	12,040.0
SUPPORT				·	
AERONAUTICS PLANNING	210.0	210.0	210.0	210.0	840.0
AERONAUTICS PROGRAM DEV	280.0	280.0	280.0	280.	1,120.0
EDUCATION AND	200.0	200.0	200.0	200.0	800.0

PROJECT (x000) TRAINING	FY 2019 TOTAL	FY 2020 TOTAL	FY 2021 TOTAL	FY 2022 TOTAL	2019-2022 TOTAL
HEAVY EQUIPMENT PROGRAM	12,500.0	11,500.0	10,000.0	10,000.0	44,000.0
PLANNING	10,900.2	10,900.2	10,900.2	10,900.2	43,600.8
Federal Land Access Program	30.0	30.0	30.0	30.0	120.0
Local Transportation Assistance Program (TAP)	300.0	300.0	300.0	300.0	1,200.0
MPO/FHWA/FTA	2,964.2	2,964.2	2,964.2	2,964.2	11,856.8
Planning PD	2,000.0	2,000.0	2,000.0	2,000.0	8,000.0
Rural TAP	87.7	87.7	87.7	87.7	350.8
Statewide Planning & Research/FHWA	4,208.6	4,208.6	4,208.6	4,208.6	16,834.4
Statewide Planning & Research/FTA	143.4	143.4	143.4	143.4	573.6
Truck Weight Enforcement	645.0	645.0	645.0	645.0	2,580.0
University Research	250.0	250.0	250.0	250.0	1,000.0
TECHNOLOGY	18,113.4	14,713.4	14,013.4	14,213.4	61,053.6
DBE	44.6	44.6	44.6	44.6	178.4
Milage-Based User Fee Phase 2	0.0	0.0	0.0	0.0	0.0
IT Initiatives	13,000.0	13,500.0	13,800.0	14,000.0	54,300.0
DMV System Upgrade	4,900.0	1,000.0	0.0	0.0	5,900.0
OJT/ Support Services	100.0	100.0	100.0	100.0	400.0
Summer Transportation Institute	68.8	68.8	68.8	68.8	275.2
TRANSPORTATION FACILITIES	26,316.3	14,250.0	9,250.0	8,250.0	58,066.3
DMV Toll Equipment Upgrade	9,716.1	0.0	0.0	0.0	9,716.1

PROJECT (x000)	FY 2019 TOTAL	FY 2020 TOTAL	FY 2021 TOTAL	FY 2022 TOTAL	2019-2022 TOTAL
Transportation Facilities -					
Administration	2,600.0	2,250.0	2,250.0	2,250.0	9,350.0
Transportation Facilities - Operations	14,000.0	12,000.0	7,000.0	6,000.0	39,000.0
TRANSPORTATION MANAGEMENT IMPROVEMENTS	11,885.0	8,505.0	8,505.0	8,505.0	37,400.0
IVITATO V ENTET ( TO	11,000.0	0,000.0	0,000.0	0,000.0	0.,100.0
MUTCD Compliance	5,410.0	2,000.0	2,000.0	2,000.0	11,410.0
Traffic Signal Revolving Fund	125.0	125.0	125.0	125.0	500.0
Tunu	123.0	123.0	123.0	123.0	300.0
Rideshare Trip Mitigation	450.0	480.0	480.0	480.0	1,440.0
Transportation					
Management Improvement	5,900.0	5,900.0	5,900.0	5,900.0	23,600.0
TRANSIT					
TRANSIT FACILITIES	2,309.1	1,990.0	1,990.0	1,990.0	8,279.1
RAIL	300.0	300.0	300.0	300.0	1,200.0
TRANSIT VEHICLES	5,048.3	3,329.7	3,200.8	3,323.0	14,901.8
GRANTS AND ALLOCATIONS			·		
MUNICIPAL STREET AID	6,000.0	6,000.0	6,000.0	6,000.0	24,000.0
CTF SUBDIVISION PAVING PILOT	2,237.2	0.0	0.0	0.0	2,237.2
COMMUNITY TRANSPORTATION	17,680.0	17,680.0	17,680.0	17,680.0	70,720.0
TOTALS	382,374.2	309,046.2	312,599.8	310,956.5	1,314,976.7

### APPENDIX A Funded Dover/Kent County MPO Projects

# ROAD SYSTEM: ARTERIALS

#### SAFETY-HIGHWAY SAFETY IMPROVEMENT PROGRAM

**PROJECT SCOPE/DESCRIPTION:** The Federal Code at 23 USC152 defines this as: "Each State shall conduct and systematically maintain an engineering survey of all public roads to identify hazardous locations, sections, and elements, including roadside obstacles and unmarked or poorly marked roads, which may constitute a danger to motorists, bicyclists, and pedestrians, assign priorities for the correction of such locations, sections, and elements, and establish and implement a schedule of projects for their improvement." The Department of Transportation and the MPO's are combining smaller safety projects and reporting them categorically. This year, they are the improvements at the SR 14 and US 113 intersection in Milford.

**PROJECT JUSTIFICATION:** These improvements are federally-mandated safety programs and intersection programs that provide safe turning movements. In this case it is an major intersection in southern Kent County.

County: Kent

**Funding Program:** Road System – Arterials

**Estimated Cost:** \$2,800,000

**MPO Priority Rating:** N/A (HSIP/HEP)



#### Descriptions:

**DE14** @ US 113 Intersection Improvements: This project consists of improving the safety and function of these two primary routes in Milford.

#### HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) - KENT COUNTY

MS30-Highway Safety Improvement Program

<b>Project Authorizat</b>	Project Authorization Schedule (X \$000)									
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total
SR14 @ US 113	PE									0.0
Intersection	ROW			300.0						0.0
	C					400.0	1,600.0			2,300.0
	Σ	0.0	0.0	300.0	0.0	400.0	1,600.0	0.0	0.0	2,300.0

M231-Surface Transportation Program

<b>Project Funding So</b>	Project Funding Schedule (X \$000)											
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total		
SR14 @ US 113	PE	300.0								300.0		
Intersection	ROW			300.0						300.0		
	C					400.0	1,600.0			2,000.0		
	Σ	300.0	0.0	300.0	0.0	400.0	1,600.0	0.0	0.0	2,600.0		

#### HAZARD ELIMINATION PROGRAM (HEP), - KENT COUNTY

**PROJECT SCOPE/DESCRIPTION:** The Federal Code at 23 USC152 defines this as: Each State shall conduct and systematically maintain an engineering survey of all public roads to identify hazardous locations, sections, and elements, including roadside obstacles and unmarked or poorly marked roads, which may constitute a danger to motorists, bicyclists, and pedestrians, assign priorities for the correction of such locations, sections, and elements, and establish and implement a schedule of projects for their improvement. The proposed projects identified through this process in Kent County that are required to be addressed are listed in the Funding Schedule below. They are the larger projects that, the Department and MPO feels, should be reported separately.

**PROJECT JUSTIFICATION:** These improvements are federally-mandated safety programs and intersection programs that provide safe turning movements.

County: Kent

**Funding Program:** Road System – Arterials

**Estimated Cost:** \$97,354,000 **MPO Priority Rating:** N/A (HEP)





#### Descriptions:

US 13 Widening: This project involves the addition of a third lane in each direction on US13 from the Puncheon Run Connector south to Walnut Shade Rd. This will require roadway widening, storm water management facilities, multiple intersection redesigns, traffic signal reconfigurations and multi-modal improvements. The first phase, included in the CTP as a separate project, is HEP KC US13Lochmeath Way to the Puncheon Run Connector. The second phase is HEP KC US13 Walnut Shade Road to Lochmeath Way.

**DE8 & DE15 Intersection Improvements:** The existing intersection of DE8/Forest Ave. and Saulsbury Road/DE15 qualifies for and requires safety improvements. Primary improvement will be to add another through lane in both directions, north and south on Saulsbury Road/DE15. This project is included as a Local Road.

The Walnut Shade Road-US13 to Peachtree Run project that was included as a HEP project in past CTP's was included as a regular project in the FY2020 CTP and will appear separately.

#### HAZARD ELIMINATION PROGRAM (HEP) - KENT COUNTY

MS30-Highway Safety Improvement Program

<b>Project Authorizat</b>	ion Schedu	ıle (X \$000)								
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total
US13-Puncheon	PE									0.0
Run Connector to	ROW	2,000.0								2,000.0
Lochmeath Way:	C			13,200.0	1,000.0		12,000.0		15,800.0	42,000.0
US 13 Widening	Σ	2,000.0	0.0	13,200.0	1,000.0	0.0	12,000.0	0.0	15,800.0	44,000.0
US13-Puncheon	PE	635.0								0.0
Run Connector to	ROW			500.0						500.0
Lochmeath Way:	C							3,500.0	6,800.0	10,300.0
US 13 Widening	Σ	635.0	0.0	500.0	0.0	0.0	0.0	3,500.0	6,800.0	10,800.0
SR8 & SR15	PE									0.0
Intersection	ROW									0.0
Improvements	С	300.0	1,400.0		1,300.0					3,000.0
	Σ	300.0	1,400.0	0.0	1,300.0	0.0	0.0	0.0	0.0	3,000.0
All Projects	Σ	2,935.0	1,400.0	13,700.0	2,300.0	0.0	12,000.0	3,500.0	22,600.0	57,800.0

M231-Surface Transportation Program

<b>Project Funding Sch</b>	iedule (X	\$000)								
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total
US13-Puncheon Run	PE	1	720.0	50.0	200.0					1,150.0
Connector to	ROW	1,000.0		1,000.0						2,000.0
Lochmeath Way: US	C			200.0	800.0	1,500.0	6,000.0	4,000.0	17,600.0	30,100.0
13 Widening	Σ	1,180.0	720.0	1,250.0	1,000.0	1,500.0	6,000.0	4,000.0	17,600.0	33,250.0
US13-Walnut Shade	PE	444.0		400.0		291.0				1,035.0
Road to Lochmeath	ROW			250.0		250.0				500.0
Way: US13	C							1,700.0	6,800.0	8,500.0
Widening	Σ	444.0	0.0	650.0	0.0	541.0	0.0	1,700.0	6,800.0	10,035.0
SR8 & SR15	PE	18.3	73.1							92.4
Intersection	ROW	700.0								700.0
Improvements	С			300.0	2,700.0					3,000.0
	Σ	718.3	73.1	300.0	2,700.0	0.0	0.0	0.0	0.0	3,792.4
All Projects	Σ	2,342.3	793.1	2,200.0	3,700.0	2,041.0	6,000.0	5,700.0	24,400.0	47,176.4

#### **Loockerman Street/Forest Street Improvements**

**Project Description**: This project will include a series of improvements through this area of Dover that will encourage economic development and alternative modes of transportation. The planned improvements include:

- Implement a roundabout to improve traffic circulation and to provide a pleasing element to reinforce this visual terminus at the Dover Train Station and retrofit the existing Loockerman Street Streetscape into the roundabout design.
- Create a pedestrian friendly zone at the railroad crossing and Front Street.
- Create a new gateway with intersection improvements at Division Street and Forest Street.

**Project Justification**: This project will improve safety for multi-modal movements throughout the area and encourage economic development.

County: Kent Municipality: Dover

**Funding Program:** Road System – Arterials

Functional Category: Management

**Representative District:** 31 **Senatorial District:** 17

Estimated Cost: \$3,996,830 MPO Priority Rating: 0.803 #6 State Priority Ranking 65







Project Authorization	Project Authorization Schedule (X \$000)												
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total			
Loockerman	PD												
Street/Forest Street	PE									0.0			
Improvements	RW									0.0			
	С	700.0	1,800.0		1,000.0					3,500.0			
	Total	700.0	1,800.0	0.0	1,000.0	00.0	0.0	0.0	0.0	3,500.0			

Future federal Funding Program: National Highway System

<b>Project Funding Sch</b>	Project Funding Schedule (X \$000)												
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total			
Loockerman	PD									0.0			
Street/Forest Street	PE									0.0			
Improvements	RW	200.0								200.0			
	С			700.0	2,800.0					3,500.0			
	Total	200.0	0.0	700.0	2,800.0	0.0	0.0	0.0	0.0	3,700.0			

#### CANTERBURY ROAD - SR 12 TO US 13

**PROJECT SCOPE/DESCRIPTION:** This project includes improvements along Canterbury Road (DE 15) in the limits specified to include road improvement, bicycle lanes, sidewalks and shoulders where possible.

**PROJECT JUSTIFICATION:** The project will preserve traffic capacity and improve safety for other right-of-way users. As with all road improvements, complete streets attributes are considered mandatory when improvements are completed in residential areas.

Municipality: Canterbury

**Funding Program:** Road System – Arterials

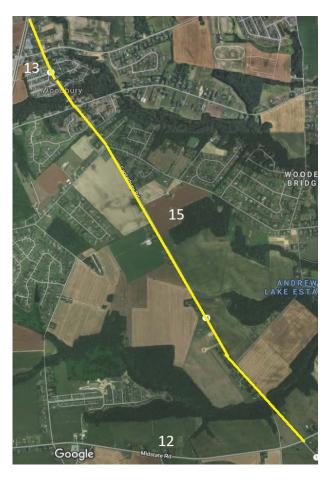
Functional Category: Management

**Representative District:** 33 **Senatorial District:** 16

**Estimated Cost:** \$5,000,000







#### CANTERBURY ROAD – SR 12 TO US 13

Project Authorizati	on Schedi	ule (X \$000)								
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total
CANTERBURY	PD									0.0
ROAD –	PE	0.0						800.0		800.0
SR 12 TO US 13	RW									0.0
	С									0.0
	Total	0.0	0.0	0.0	0.0	0.0	0.0	800.0	0.0	800.0

Federal Funding Program: National Highway Performance Program

Project Funding Schedule (X \$000)												
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total		
CANTERBURY	PD									0.0		
ROAD –	PE							400.0		400.0		
SR 12 TO US 13	RW									0.0		
	С									0.0		
	Total	0.0	0.0	0.0	0.0	0.0	0.0	400.0	0.0	400.0		

#### SR 1 AT NE FRONT STEET, MILFORD GRADE SEPARATED INTERSECTION

**PROJECT SCOPE/DESCRIPTION**: This project includes the construction of a grade-separated intersection at the intersection of SR 1 and NE Front Street in Milford. The proposed improvements will enhance the capacity and safety of the SR1 corridor. The attached image is one of six alternatives for the improvements that can be found at http://www.deldot.gov/information/projects/sr1 northeast front st/concept.shtml.

**PROJECT JUSTIFICATION:** The intersection of SR 1, Bay Road, and SR 14, NE Front Street, is a high accident intersection. This project will preserve traffic capacity and safety in accordance with the Corridor Capacity Preservation Program.

Municipality: Milford

**Funding Program:** Road System – Arterials

Functional Category: Management

**Representative District:** 33 **Senatorial District:** 18

**Estimated Cost:** \$23,190,957







#### SR 1 AT NE FRONT STREET, MILFORD GRADE SEPARATED INTERSECTION

Project Authorization	Project Authorization Schedule (X \$000)												
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total			
SR1 AT NE FRONT	PD									0.0			
STREET, DE14,	PE									0.0			
MILFORD GRADE	RW									0.0			
SEPARATED	С									0.0			
INTERSECTION	Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Federal Funding Program: National Highway Performance Program (NHPP)

<b>Project Funding Sch</b>	edule (X	\$000)								
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total
SR1 AT NE FRONT STREET, DE14,	PD									0.0
	PE									0.0
MILFORD GRADE	RW									0.0
SEPARATED INTERSECTION	С	676.0	2,704.0							3,380.0
INTERSECTION	Total	676.0	2,704.0	0.0	0.0	0.0	0.0	0.0	0.0	3,380.0

#### WALNUT SHADE ROAD, US 13 TO PEACHTREE RUN ROAD

**PROJECT SCOPE/DESCRIPTION:** This project includes improvements to bring the road to the Arterial standards; adequate travel lanes, shoulder, bike lanes and sidewalks. The project was nominated by Kent County as an important problem area in the developing areas south of Dover.

**PROJECT JUSTIFICATION:** The project will enhance traffic capacity and improve safety in accordance with the Arterial Design standards.

Municipality:Central Kent CountyFunding Program:Road System – Arterials

Functional Category: Management

**Representative District:** 33

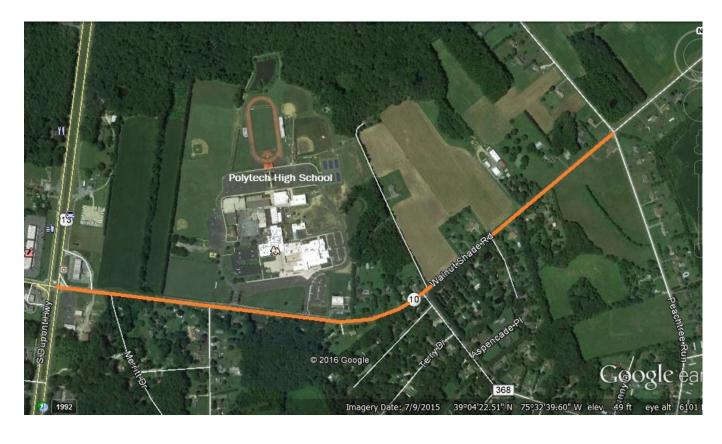
**Senatorial District:** 16

**Estimated Cost:** \$6,150,000

MPO Priority Rating: 7
State Priority Number: 15







#### WALNUT SHADE ROAD, US 13 TO PEACHTREE RUN ROAD

Project Authorization	on Schedi	ule (X \$000)								
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total
WALNUT SHADE	PE									0.0
ROAD, US 13 TO	RW			1,000.0						1,000.0
PEACHTREE RUN	С							1,000.0	400.0	1,400.0
ROAD	Total	0.0	0.0	1,000.0	0.0	0.0	0.0	1,000.0	400.0	2,400.0

Federal Funding Program: Surface Transportation Program MAP-21 (STP)

Project Funding Schedule (X \$000)												
Project	Phase	FY 2020 State/ Other	FY 2020 Federal	FY 2021 State/ Other	FY2021 Federal	FY 2022 State/ Other	FY 2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2020- 2023 Total		
WALNUT SHADE ROAD, US 13 TO	PE	50.0								50.0		
	RW			500.0		500.0				1,000.0		
PEACHTREE RUN	С							100.0	400.0	500.0		
ROAD	Total	50.0	0.0	500.0	0.0	500.0	0.0	100.0	400.0	1,550.0		

#### **ROAD SYSTEM:**

## COLLECTORS

#### SCARBOROUGH ROAD C-D ROADS

**Project Description**: This project will add an alternative Road from Scarborough Road at exit 104 from DE 1 as well as a new exit from SR1 to the Dover Mall and Dover Downs sites.

**Project Justification**: This project will relieve congestion on US 13, improve safety for multi-modal movements throughout the area and encourage economic development.

County: Kent Municipality: Dover

Funding Program: Road System – Collector

Functional Category: Management

**Representative District:** 28 **Senatorial District:** 17

**Estimated Cost:** \$33,050,000

MPO Priority Rating: 17 State Priority Ranking 101









#### SCARBOROUGH ROAD C-D ROADS

Project Authorization Schedule (X \$000)												
Droject	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-		
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total		
SR1, Scarborough	PD									0.0		
Road C-D Roads	PE					250.0		350.0		600.0		
	RW									0.0		
	С									0.0		
	Total	0.0	0.0	0.0	0.0	250.0	0.0	350.0	0.0	600.0		

Future federal Funding Program: National Highway System

Project Funding Schedule (X \$000)												
Project	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-		
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total		
SR1, Scarborough	PD									0.0		
Road C-D Roads	PE					250.0		350.0		600.0		
	RW									0.0		
	С									0.0		
	Total	0.0	0.0	0.0	0.0	250.0	0.0	350.0	0.0	600.0		

#### NE FRONT STREET, REHOBOTH BLVD TO SR1

Project Description: This project will improve the NE. Front St. from Rehoboth Boulevard/1B to SR1 in Milford. These improvements are to be made in conjunction with the construction of the new grade separated intersection at SR 1.

**Project Justification**: This project will improve safety for multi-modal movements throughout the area and encourage economic development.

**County:** Kent Milford **Municipality:** 

**Funding Program:** Road System - Collector

**Functional Category:** Management

**Representative District:** 33 **Senatorial District:** 18

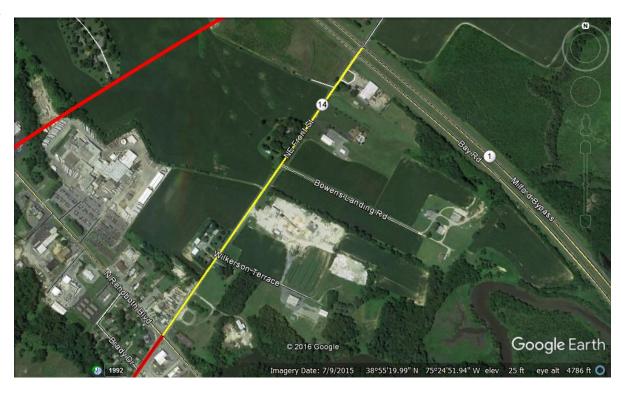
\$6,150,000 **Estimated Cost:** 

**MPO Priority Rating: State Priority Ranking** 26









#### NE FRONT STREET, REHOBOTH BLVD TO SR1

Project	Dhaga	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
rroject	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
NE Front Street,	PD									0.0
Rehoboth Blvd to	PE					200.0		350.0		550.0
SR1	RW									0.0
	С									0.0
	Total	0.0	0.0	0.0	0.0	200.0	0.0	350.0	0.0	550.0

Future federal Funding Program: National Highway System

<b>Project Funding Sc</b>	hedule (X	\$000)								
Ductoot	Dhaga	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
NE Front Street,	PD									0.0
Rehoboth Blvd to	PE					200.0		350.0		550.0
SR1	RW									0.0
	С									0.0
	Total	0.0	0.0	0.0	0.0	200.0	0.0	350.0	0.0	550.0

#### IRISH HILL RD., FOX CHASE ROAD TO MCGINNIS POND ROAD

**PROJECT SCOPE/DESCRIPTION:** This project includes the initial improvements to Irish Hill Road as identified in the MPO's Metropolitan Transportation Plan. The project was nominated by Kent County as an important problem area in the developing areas south of Dover. Project will include the realignment of Woodleytown Road with Irish Hill Road.

**PROJECT JUSTIFICATION:** The project will enhance traffic capacity and improve safety in accordance with the Arterial Design standards.

Municipality: Central Kent County
Funding Program: Road System – Collectors

Functional Category: Management

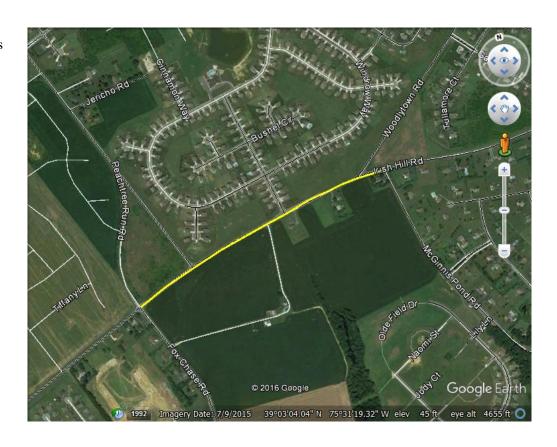
**Representative District:** 33 **Senatorial District:** 16

**Estimated Cost:** \$ 6,500,000

MPO Priority Rating: 32 State Priority Number: 78







#### IRISH HILL RD., FOX CHASE ROAD TO MCGINNIS POND ROAD

Project Authorizatio	n Schedu	ıle (X \$000)								
Duniant	Dhass	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
IRISH HILL RD., FOX	PE					200.0		350.0		500.0
CHASE ROAD TO	RW									0.0
MCGINNIS POND	С									0.0
ROAD	Total	0.0	0.0	0.0	0.0	200.0	0.0	350.0	0.0	500.0

450.0

Federal Funding Program: Surface Transportation Program MAP-21 (STP)

<b>Project Funding Sch</b>	edule (X	<b>\$000</b> )								
Duotost	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	· Federal	State/Other	Federal	State/ Other	Federal	2023 Total
IRISH HILL RD., FOX	PE					200.0		350.0		500.0
CHASE ROAD TO	RW									0.0
MCGINNIS POND	С									0.0
ROAD	Total	0.0	0.0	0.0	0.0	200.0	0.0	350.0	0.0	500.0

#### COLLEGE ROAD - KENTON ROAD TO McKEE ROAD

**Project Description**: Funding is requested to improve vehicle, pedestrian, and bicycle travel along the westernmost section of College Road. Improvements will improve vehicle, pedestrian, and bicycle travel along College Road including two 11-foot lanes with two five-foot shoulders, installing curbs, sidewalks and bike lanes on at least one side, and addressing closed drainage, traffic calming, and safety improvements.

**Project Justification**: This is to replicate the treatments to Walker Road, immediately to the south, several years ago to provide safe multi-modal access to this Connector between two neighborhoods..

County: Kent Municipality: Dover

**Funding Program:** Road System – Collectors

**Functional Category:** Expansion

Representative District: 31 Senatorial District: 17

**Estimated Cost:** \$4,250,000













#### COLLEGE ROAD – KENTON ROAD TO McKEE ROAD

Project Authorizatio	n Schedi	ule (X \$000)								
During	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
COLLEGE ROAD	PE							750.0		750.0
- KENTON	RW									
ROAD TO	C									
McKEE ROAD	Total	0.0	0.0	0.0	0.0	0.0	0.0	750.0	0.0	750.0

Surface Transportation Program MAP-21

<b>Project Funding Sch</b>	edule (X	\$000)								
Description	DI	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
COLLEGE ROAD	PE	375.0								375.0
- KENTON	RW									0.0
ROAD TO	C									0.0
McKEE ROAD	Total	375.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	375.0

#### CAMDEN BY-PASS: OLD NORTH ROAD EXTENDED TO DE 10

Project Description: The Town of Camden has experienced traffic growth as development has occurred west of RT13. The Town has worked with the department to lessen the impact of traffic congestion and large trucks on the small Main Street and adjoining historic properties. Funding is requested to improve vehicle, pedestrian, and bicycle travel along Old North Road in Camden from Main Street to US13 and to the future connections beyond that will surround the proposed development and connect to DE 10 at Rising Sun Road (K29).

**Project Justification**: The project will divert traffic away from the constrained central intersection in Town and the nearby critical properties.

**County:** Kent **Municipality:** Dover

**Funding Program:** Road System - Collectors

**Functional Category:** Management

**Representative District:** 34 **Senatorial District:** 17

**Estimated Cost:** \$4,700,000













#### CAMDEN BY-PASS: NORTH STREET EXTENDED TO DE 10

<b>Project Authorization</b>	on Schedi	ule (X \$000)								
Descript	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
CAMDEN BY-PASS:	PE	350.0								
NORTH STREET	RW	1,200.0								
EXTENDED TO	С			500.0	200.0		1,600.0		200.0	2,500.0
DE10	Total	1,550.0	0.0	500.0	200.0	0.0	1,600.0	0.0	200.0	4,050.0

Surface Transportation Program MAP-21

<b>Project Funding Sch</b>	iedule (X	\$000)								
Duotaat	Dhaga	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/O5her	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
CAMDEN BY-PASS:	PE	350.0		100.0						450.0
NORTH STREET	RW	100.0		1,100.0						1,100.0
EXTENDED TO	С			10.0	40.0	390.0	1,560.0	100.0	400.0	2,500.0
DE10	Total	450.0	0.0	1,210.0	40.0	390.0	1,560.0	100.0	400.0	4, 050.0

#### CAMDEN BY-PASS: SOUTH STREET TO RISING SUN ROAD

**Project Description**: The Town of Camden has experienced traffic growth as development has occurred west of RT13. The Town has worked with the department to lessen the impact of traffic congestion and large trucks on the small Main Street and adjoining historic properties. Funding is requested to improve vehicle, pedestrian, and bicycle travel along a new right of way from South Main Street east to US 13 and then to Route 10 east of Camden.

Project Justification: This is a proposal for a new road to bypass the center of Camden to also include pedestrian and bicycle access and a traffic signal at US13

County: Kent Municipality: Dover

**Funding Program:** Road System – Collectors

Functional Category: Management

**Representative District:** 31 **Senatorial District:** 17

**Estimated Cost:** \$13,500,000

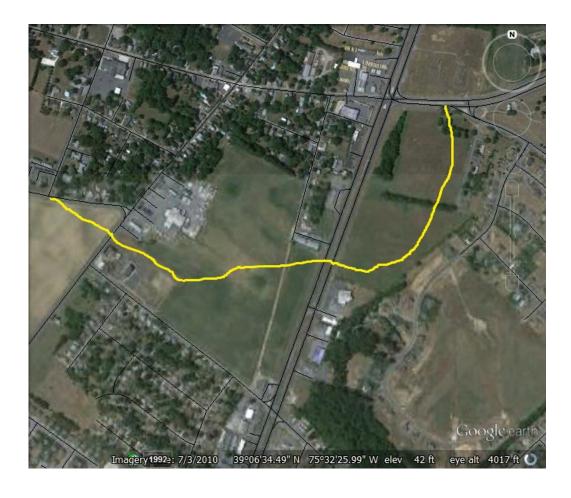












#### CAMDEN BY-PASS: SOUTH STREET TO RISING SUN ROAD

Project Authorization	n Schedu	le (X \$000)								
Duoinat	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
CAMDEN BY-PASS:	PE	60.0	240.0							300.0
SOUTH STREET TO	RW	2,000.0								2,000.0
RISING SUN ROAD	C			2,000.0	4,000.0		3,600.0		4,000.0	13,600.0
	Total	2,060.0	240.0	2,000.0	4,000.0	0.00	3,600.0	0.0	4,000.0	15,900.0

<b>Project Funding Sch</b>	edule (X	<b>\$000</b> )								
Descript	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
CAMDEN BY-PASS:	PE	40.0	160.0	60.0	240.0					500.0
SOUTH STREET TO	RW	100.0		1,900.0						2,000.0
RISING SUN ROAD	C			10.0	40.0	1,000.0	4,000.0	990.0	3,960.0	10,000.0
	Total	140.0	160.0	1,970.0	280.0	1,000.0	4,000.0	990.0	3,960.0	12,500.0

#### KENTON ROAD: SR8 TO CHESTNUT GROVE ROAD

Project Description: Funding is requested to improve vehicle, pedestrian, and bicycle travel along Kenton Road (K104) between Route 8/Forrest Ave and Chestnut Grove Road (K158) in Dover. The improvements will involve widening Kenton Road to two 11-foot lanes with two five-foot shoulders, installing curbs and sidewalks on one or both sides (both if in the City of Dover and those enclaves that are not.), and addressing closed drainage, traffic calming, and safety improvements.

Project Justification: This stretch of Kenton Road in the City of Dover has remained unimproved for pedestrian and bicycle access and still has open drainage for

storm water.

Kent **County:** Municipality: Dover

Road System - Collectors **Funding Program:** 

**Functional Category:** Management

**Representative District:** 31 **Senatorial District:** 17

\$19,501,482 **Estimated Cost:** 













#### KENTON ROAD: SR8 TO CHESTNUT GROVE ROAD

<b>Project Authorization</b>	on Schedi	ule (X \$0002								
Dusiant	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
KENTON ROAD:	PE									0.0
SR8 TO	RW									0.0
CHESTNUT	С							3,200.0	400.0	3,600.0
GROVE ROAD	Total	0.0	0.0	0.0	0.0	0.0	0.0	3,200.0	400.0	3, 600.0

<b>Project Funding Sch</b>	iedule (X	\$000)								
Duniont	Dhaga	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
KENTON ROAD:	PE			18.3	73.2					91.5
SR8 TO	RW	144.0	576.0	96.0	384.0					1,200.0
CHESTNUT	С							100.0	400.0	500.0
GROVE ROAD	Total	144.0	576.0	114.3	457.2	0.0	0.0	100.0	400.0	1,791.5

#### WEST STREET, NEW BURTON ROAD TO NORTH STREET

**Project Description**: West Street has become a critical connection for the DART Transit service in the City of Dover. The Dover Transit Center is adjacent on Water Street and buses use West Street to enter and exit the Transit Center. It is also a popular route between North Street and New Burton Road but has not been built to the standards for this use. The project will include improvements to the road surface and installation of pedestrian and bicycle access for users of the road and the Transit Center.

**Project Justification**: This is a proposal for road improvements and non-motorized access on the street and for the Transit Center.

County: Kent Municipality: Dover

**Funding Program:** Road System – Collectors

Functional Category: Management

**Representative District:** 31 **Senatorial District:** 17

**Estimated Cost:** \$1,300,000

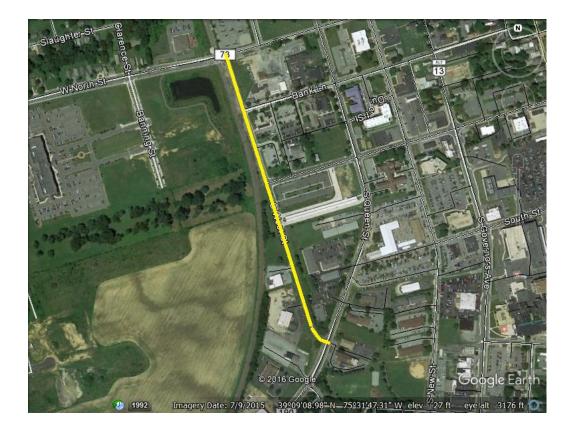








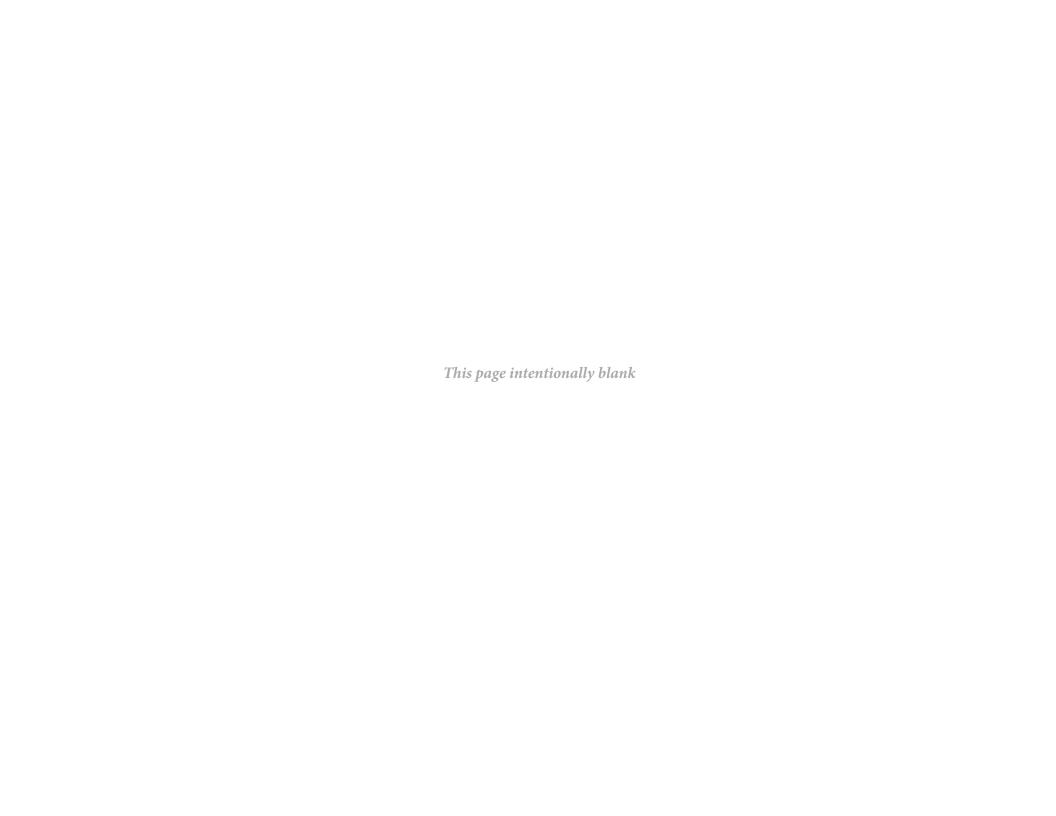




#### WEST STREET, NEW BURTON ROAD TO NORTH STREET

Project Authorization	n Schedu	le (X \$000)								
Duniont	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
WEST STREET,	PE			400.0						400.0
NEW BURTON	RW					250.0				250.0
ROAD TO NORTH	C									0.0
STREET	Total	0.0	0.0	0.0	0.0	200.0	0.0	250.0	0.0	650.0

<b>Project Funding Sch</b>	edule (X	\$000)								
Dustant	Dhaga	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
WEST STREET,	PE			200.0		200.0				400.0
NEW BURTON	RW					50.0		200.0		250.0
ROAD TO NORTH	C									0.0
STREET	Total	0.0	0.0	200.0	0.0	250.0	0.0	200.0	0.0	650.0



### **ROAD SYSTEM:**

### LOCAL ROADS

#### SR8, Connector Road from Commerce Way to SR8

**Project Description**: This project was initiated when the City of Dover received a proposal to redevelop several properties along Route 8/Division Street to include several buildings and parcels previously identified as an opportunity for an alternative connection with Beiser Boulevard and W. North Street. The connection through this area of Dover will encourage economic development and alternative modes of transportation.

Project Justification: This project will improve safety for multi-modal movements throughout the area and encourage economic development.

County: Kent Municipality: Dover

Funding Program: Road System – Local

Functional Category: Management

**Representative District:** 31 **Senatorial District:** 17

**Estimated Cost:** \$2,500,000





#### SR8, Connector Road from Commerce Way to SR8

<b>Project Authorization</b>	on Sched	ule (X \$000)								
Duoinat	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
SR8, Connector	PD									0.0
Road from	PE			500.0						500.0
Commerce Way to	RW									0.0
SR8	С									0.0
	Total	0.0	0.0	500.0	0.0	150.0	0.0	0.0	0.0	500.0

Future federal Funding Program: National Highway System

<b>Project Funding Scl</b>	hedule (X	\$000)								
During	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
SR8, Connector	PD									0.0
Road from	PE			150.0		200.0		150.0		500.0
Commerce Way to	RW									0.0
SR8	С									0.0
	Total	0.0	0.0	150.0	0.00	200.0	0.0	150.0	0.0	500.0

#### CRAWFORD CARROLL ROAD EXTENSION

**Project Description**: Funding is requested to improve vehicle, pedestrian, and bicycle travel along Crawford Carroll Road Extended from Rustic Lane, behind the Lowes Store ultimately to extend through the parking lot of the Home Goods/Pet Smart Dover stores in North Dover. The improvements will involve creating an extended Crawford Carroll Road of two 11-foot lanes with two five-foot shoulders, installing curbs, sidewalks and bike lanes on one or both sides, and addressing closed drainage, traffic calming, and safety improvements.

Project Justification: A Crawford Carroll Road extension has gained importance with the Delaware State University acquisition of the former Sheraton Hotel for

student housing and event space. Students living in the facility are using the US13 corridor for both vehicular and pedestrian access to campus.

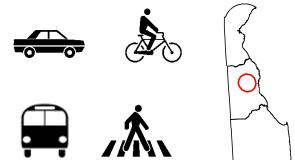
County: Kent Municipality: Dover

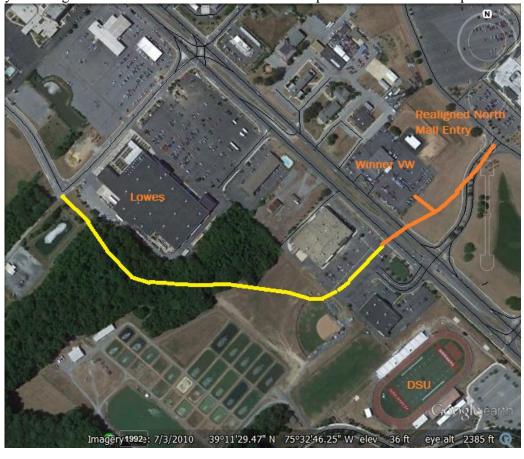
Funding Program: Road System –Local

**Functional Category:** Expansion

**Representative District:** 31 **Senatorial District:** 17

**Estimated Cost:** \$5,400,000



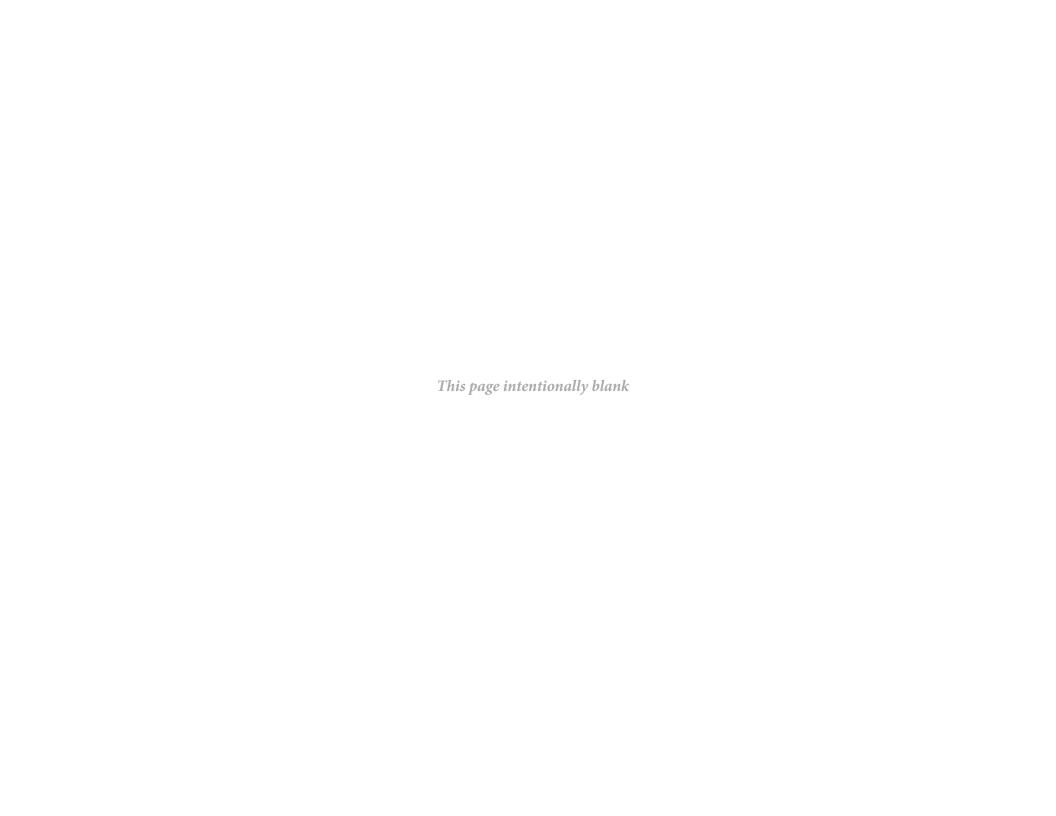


#### CRAWFORD CARROLL ROAD EXTENSION

Project Authorization	on Schedi	ule (X \$000)								
Duoinat	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
CRAWFORD	PE									0.0
CARROLL ROAD	RW									0.0
EXTENSION	C			600.0	2,400.0					3,000.0
	Total	0.0	0.0	600.0	2,400.0	0.00	0.0	0.0	0.0	3,000.0

Surface Transportation Program MAP-21

<b>Project Funding Sch</b>	nedule (X	\$000)								
Ductoot	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
CRAWFORD	PE									0.0
CARROLL ROAD	RW	8,000.0								8,000.0
EXTENSION	C			300.0	1,200.0	300.0	1,200.0			3,000.0
	Total	8,000.0	0.0	300.0	1,200.0	300.0	1,200.0	0.0	0.0	11,000.0



# ROAD SYSTEM: BICYCLE /

# PEDESTRIANS

#### **BICYCLE AND PEDESTRIAN IMPROVEMENTS**

There were no Capital Projects dedicated to Bicycle or Pedestrian access. Such access is included as a part of larger projects already identified.

### **ROAD SYSTEM:**

# **BRIDGES**

#### **BRIDGES:**

Bridges are being treated as a category of projects in the DelDOT CTP. The TIP will represent the bridge projects in a similar manner; an overall expense and a list of included bridge projects.

**PROJECT SCOPE/DESCRIPTION:** Typically replace the existing corrugated metal pipe arches with a structure. The replacement structure will be concrete box beams on abutments with concrete wingwalls. Additional work includes placing riprap for scour protection and installing guardrail as necessary. The work will be performed under a full road closure.

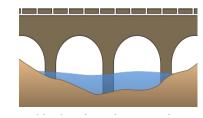
**PROJECT JUSTIFICATION:** The existing pipes are found to be structurally deficient and were selected by the Pontis Bridge Management System for work. They have a low sufficiency rating and they are ranked on the latest DelDOT Bridge Deficiency List. Typically there would be numerous

perforations along the pipes and a deep pitting. The wingwalls would also be spalling.

County: Kent

**Funding Program:** Road System – Bridge

Functional Category: Management
Estimated Cost: \$13,562,969
MPO Priority Rating: N/A (Bridge)



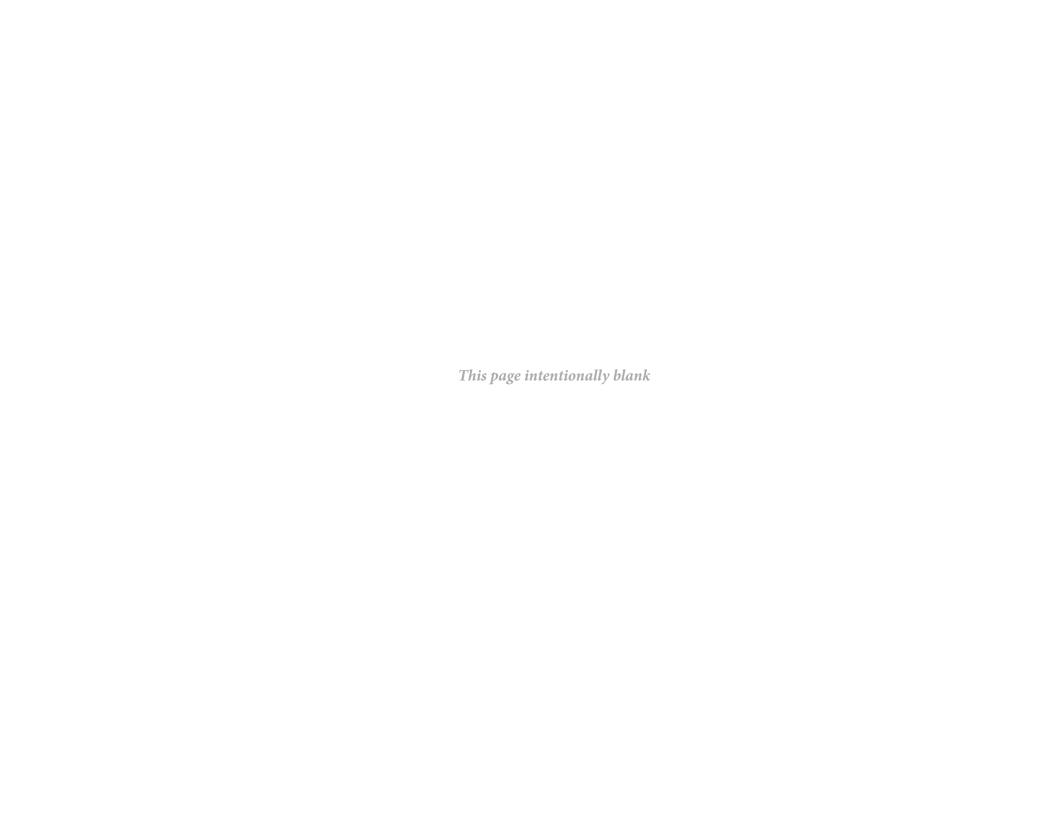
<b>Project Authorization</b>	on Schedi	ule (X \$000)								
Desirat	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
BRIDGES	PE									0.0
	RW	20.0								20.0
	С			1,470.0	4,480.0					5,950.0
	Total	20.0	0.0	1,470.0	4,480.0	0.0	0.0	0.0	0.0	5,970.0

Federal Funding Program: Surface Transportation Program

<b>Project Funding Sci</b>	hedule (X	\$000)								
Duoinat	Dhaga	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
BRIDGES	PE	12.5								12.5
	RW	60.0		20.9						80.9
	С	302.8	1,211.2	1,150.0	3,200.0	320.0	1,280.0			7,484.0
	Total	375.3	1,211.2	1,170.9	3,200.0	320.0	1,280.0	0.0	0.0	7,577.4

#### Bridges scheduled for repair in the period of the TIP, FY2019-2022:

BR 2-031A on Irish Hill Road over Double Run Creek Total BR2-305B ON S308 Fisher's Bridge over Marshyhope Creek Total BR2-870A ON K870 Quail Run over Issac Branch Bridge Replacements, Total



### TRANSIT SYSTEM:

# **FACILITIES**

#### TRANSIT FACILITIES: SOUTH FREDERICA PARK & RIDE

**PROJECT DESCRIPTION:** Installation of a new park and ride while a grade separated intersection is being constructed for the intersections south and east of Frederica.

**PROJECT JUSTIFICATION:** The center of Kent County south of Dover has been one of the areas of intensive development pressure. Hundreds of homes have been built and thousands of lots have been created to fulfill a presumed demand. The park & ride offers residents a transit alternative to a long commute in a single occupancy vehicle.

County: Kent

**Funding Program:** Transit System – Facilities

**Functional Category:** Expansion

Representative District: 31
Senatorial District: 17

**Estimated Cost:** \$1,948,000

<b>Project Funding Sch</b>	edule (X	<b>\$000</b> )								
Project	Phase	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022		FY 2023	FY 2020-
110,000		State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
Transit facilities:	PE									0.0
south frederica park	C	975.0								975.0
& ride	Total	975.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	975.0

#### TRANSIT FACILITIES: DOVER FACILITY RENOVATIONS

PROJECT DESCRIPTION: Capital modifications to transit facilities to provide adequate facilities for the Kent County buses.

**PROJECT JUSTIFICATION:** Improvements made to facilities that had experienced deferred maintenance.

County: Kent

**Funding Program:** Transit System – Facilities

**Functional Category:** Expansion

**Representative District:** 31 **Senatorial District:** 17

Estimated Cost: \$500,000

<b>Project Funding Scl</b>	nedule (X	(\$000)								
Project	Phase	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Troject	Ппавс	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
DOVER	PE									0.0
MAINTENANCE	С	1,468.1								1,468.1
FACILITY RENOVATIONS	Total	1,468.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,468.1

#### TRANSIT FACILITIES: ELECTRIC BUS MODIFICATION

**PROJECT DESCRIPTION:** Capital modifications to transit facilities to provide adequate and appropriate electric connections to recharge the Kent County based Electric Buses.

**PROJECT JUSTIFICATION:** Improvements made to facilities that allow for alternative fuel fleet management.

County: Kent

**Funding Program:** Transit System – Facilities

**Functional Category:** Expansion

**Representative District:** 31 **Senatorial District:** 17

**Estimated Cost:** \$1,738,000

<b>Project Funding Sch</b>	iedule (X	\$000)								
Project	Phase	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Troject	Tilasc	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	<b>2023 Total</b>
DOVER	PE									0.0
MAINTENANCE	C	165.0	385.0							550.0
FACILITY RENOVATIONS	Total	165.0	385.0	0.0	0.0	0.0	0.0	0.0	0.0	550.0

### TRANSIT SYSTEM:

# VEHICLES

#### TRANSIT VEHICLE EXPANSION: (6) 35' ELECTRIC BUSES FY18

**PROJECT SCOPE/DESCRIPTION:** The Delaware Transit Corporation will use grant funds to purchase six 35-foot electric buses to provide efficient fixed route service in Kent County.

**PROJECT JUSTIFICATION:** DTC sought the opportunity to provide clean, efficient fixed route service in Kent County as the test location for a fleet addition.

County: Kent

**Funding Program:** Transit System – Vehicles

**Functional Category:** Expansion

**Representative District:** 32 **Senatorial District:** 18

**Estimated Cost:** \$5,420,628



#### TRANSIT VEHICLE EXPANSION: ELECTRIC BUSES

<b>Project Authorizatio</b>	n Sched	ule (X \$000)								
Duoinat	Dhaga	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
TRANSIT VEHICLE EXPANSION: (2) 40' LOW FLOOR FY17	PRO									0.0
LOW FLOOR FYI/	Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Federal Funding Program – 5307 Urbanized Area Formula Grant Program

<b>Project Funding Sch</b>	Project Funding Schedule (X \$000)												
Descript	Dhaga	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-			
Project	Project Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total			
TRANSIT VEHICLE EXPANSION: (2) 40'	PRO	520.0	2,080.0							2,600.0			
LOW FLOOR FY17	Total	520.0	2,080.0	0.0	0.0	0.0	0.0	0.0	0.0	2,600.0			

#### PREVENTATIVE MAINTENANCE – KENT COUNTY

**PROJECT SCOPE/DESCRIPTION:** FTA permits the use of federal funds for preventative vehicle maintenance.

**PROJECT JUSTIFICATION:** Funding will support preventative maintenance of fixed route and paratransit vehicles, ensuring the reliability of the service.

County: Kent

Funding Program: Transit System – Vehicles

**Functional Category:** Expansion

Representative District: 32 Senatorial District: 17

Estimated Cost: \$954,500







#### PREVENTATIVE MAINTENANCE – KENT COUNTY

Project Authorization	Project Authorization Schedule (X \$000)													
Developed	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-				
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total				
PREVENTATIVE MAINTENANCE –	PRO		95.4		95.4		95.4		95.4	381.6				
KENT COUNTY	Total	0.0	95.4	0.0	95.4	0.0	95.4	0.0	95.4	381.6				

#### 5307 – Urbanized Area Formula Grant Program

<b>Project Funding Sch</b>	Project Funding Schedule (X \$000)													
D t	Phase	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-				
Project	rnase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total				
PREVENTATIVE MAINTENANCE –	PRO	23.9	95.4	23.9	95.4	23.9	95.4	23.9	95.4	477.2				
KENT COUNTY	Total	23.9	95.4	23.9	95.4	23.9	95.4	23.9	95.4	477.2				

#### TRANSIT VEHICLE REPLACEMENT (13) 30' Low Floor Buses KC FY21

PROJECT SCOPE/DESCRIPTION: This project will purchase thirteen 30-foot low-floor buses to provide fixed route service for Kent County.

**PROJECT JUSTIFICATION:** DTC's business plan recommends scheduled replacement of fixed route service buses.

County: Kent

**Funding Program:** Transit System – Vehicles

**Functional Category:** Expansion

**Representative District:** 28, 29, 30, 31, 32, 34

**Senatorial District**: 14, 15, 16, 17 **Estimated Cost**: \$6,883,500



#### **VEHICLE REPLACEMENT**

<b>Project Authorization</b>	Project Authorization Schedule (X \$000)													
Duoingt	Dhaga	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-				
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total				
TRANSIT VEHICLE REPLACEMENT	PRO			1,376.7	5,506.8					6,883.5				
(13) 30' Low Floor Buses KC FY21	Total	0.0	0.0	1,376.7	5,506.8	0.0	0.0	0.0	0.0	6,883.5				

<b>Project Funding Sch</b>	Project Funding Schedule (X \$000)													
Project	DL	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-				
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total				
TRANSIT VEHICLE REPLACEMENT	PRO			1,376.7	5,506.8					6,883.5				
(13) 30' Low Floor Buses KC FY21	Total	0.0	0.0	1,376.7	5,506.8	0.0	0.0	0.0	0.0	6,883.5				

#### TRANSIT VEHICLE REPLACEMENT (4) 30' Low Floor Buses KC FY20

**PROJECT SCOPE/DESCRIPTION:** This project will purchase four 30-foot low-floor buses to provide fixed route service for Kent County.

**PROJECT JUSTIFICATION:** DTC's business plan recommends scheduled replacement of fixed route service buses.

County: Kent

**Funding Program:** Transit System – Vehicles

**Functional Category:** Expansion

**Representative District:** 28, 29, 30, 31, 32, 34

**Senatorial District**: 14, 15, 16, 17 **Estimated Cost**: \$2,017,200



#### **VEHICLE REPLACEMENT**

<b>Project Authorization</b>	n Sched	ule (X \$000)								
Duoinat	Dhasa	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total
TRANSIT VEHICLE REPLACEMENT (4) 30' Low Floor Buses	PRO									0.0
KC FY20	Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01

<b>Project Funding Sch</b>	Project Funding Schedule (X \$000)													
D	Diverse	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-				
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total				
TRANSIT VEHICLE REPLACEMENT (4)	PRO	400.8	1,603.3							2,004.1				
30' Low Floor Buses KC FY20	Total	400.8	1,603.3	0.0	0.0	0.0	0.0	0.0	0.0	2,004.1				

#### TRANSIT VEHICLE REPLACEMENT Paratransit Buses

**PROJECT SCOPE/DESCRIPTION:** This project will replace cut-a-way buses for paratransit service in Kent County.

**PROJECT JUSTIFICATION:** The investment in transit vehicle replacement and refurbishment is necessary to meet the projected vehicle replacement schedule.

County: Kent

**Funding Program:** Transit System – Vehicles

Functional Category: Replacement

**Representative District:** 28, 29, 30, 31, 32, 34

 Senatorial District:
 14, 15, 16, 17

 Estimated Cost:
 \$10,534,800



#### Paratransit Buses Kent FY2016-2022

<b>Project Authorization</b>	Project Authorization Schedule (X \$000)													
D	DI	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-				
Project	Phase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total				
TRANSIT VEHICLE REPLACEMENT Paratransit Buses	PRO	417.3	1,621.1	500.4	2,001.6	210.1	840.3	412.5	1,650.0	7,656.3				
Kent FY16-2232,	Total	417.3	1,621.1	500.4	2.001.6	210.1	840.3	412.5	1,650.0	7,656.3				

<b>Project Funding Sch</b>	Project Funding Schedule (X \$000)													
Duoinat	Phase	FY 2020	FY 2020	FY 2021	FY2021	FY 2022	FY 2022	FY 2023	FY 2023	FY 2020-				
Project	rnase	State/Other	Federal	State/Other	Federal	State/Other	Federal	State/ Other	Federal	2023 Total				
TRANSIT VEHICLE REPLACEMENT	PRO	80.2	320.6	405.3	1,621.1	500.4	2,001.6	210.1	840.3	5,978.6				
Paratransit Buses Kent FY16-22	Total	80.2	320.6	405.3	1,621.1	500.4	2,001.6	210.1	840.3	5,978.6				

# APPENDIX B Adopted Resolutions and Self-Certification May 1, 2019

# APPENDIX C Financial Plan (Including Evidence of Fiscal Constraint)

	R	levenue		
Kent County	FY 20	FY 21	FY 22	FY 23
Federal	\$9,928,596	\$18,900,541	\$17,737,000	\$30,495,720
State	\$16,286,641	\$11,247,186	\$6,951,400	\$9,375,080
Other	\$23,900	\$23,900	\$23,900	\$23,900
Subtotal - Kent county	\$26,239,137	\$30,171,627	\$24,712,300	\$39,894,700
Statewide				
Federal	\$127,056,546	\$96,952,827	\$105,625,223	\$105,528,288
State	\$253,096,443	\$210,460,644	\$205,341,881	\$203,795,508
Other	\$2,221,166	\$1,632,693	\$1,632,693	\$1,632,693
Subtotal - Statewide	\$382,374,154	\$309,046,163	\$312,599,797	\$310,956,489
Total Revenue	\$408,613,291	\$339,217,791	\$337,312,097	\$350,851,189
	Progra	mmed Funds		
Kent County				
Arterials	\$7,065,325	\$10,200,000	\$10,541,000	\$31,400,000
Collectors	\$1,470,000	\$4,921,527	\$8,250,000	\$7,175,000
Local	\$8,000,000	\$1,650,000	\$1,700,000	\$150,000
Bridge Preservation	\$1,586,500	\$4,370,900	\$1,600,000	\$0
Bicycle/Pedestrian	\$0	\$0	\$0	\$0
Transportation Facilities	\$0	\$0	\$0	\$0
Transit Facilities	\$2,993,092	\$0	\$0	\$0
Transit Vehicles	\$5,124,220	\$9,029,200	\$2,621,300	\$1,169,700
Subtotal - Kent County	\$26,239,137	\$30,171,627	\$24,712,300	\$39,894,700
Chahamida				
Statewide	<b>ቀጋ</b> ርስ <i>ፍርፍ</i> 201	¢217.450.426	#227 241 OFF	#226 276 207
Road Systems	\$259,666,301	\$217,459,436	\$227,341,955	\$226,376,387
Support Systems	\$89,133,279	\$62,287,144 ¢5,610,583	\$56,087,144 \$5,400,600	\$55,287,144
Transit Systems	\$7,657,328 \$35,017,346	\$5,619,583	\$5,490,698	\$5,612,958
Grants & Allocations	\$25,917,246	\$23,680,000	\$23,680,000	\$23,680,000
Subtotal - Statewide	\$382,374,154	\$309,046,163	\$312,599,797	\$310,956,489
Total Programmed Funds	\$408,613,291	\$339,217,791	\$337,312,097	\$350,851,189

The funding information included above was provided by DelDOT Finance and is based on anticipated resources and programmed funding in the FY 2020-2025 Capital Transportation Program provided 1/4/2019.



APPENDIX D Unfunded Projects (Aspirations) List

The 1-4-2017 Metropolitan Transportation P	Plan, after outreach to constituent Aspirations List.	communities, did not include an



# **APPENDIX E-A Annual Listing of Projects**

**Kent County** 

Full size versions of these charts are available at DoverKentMPO.org.

ГАВ	С	F	G	Н	1	K	v	W	X	Y	AC	AD	AE	AF	AJ	AK	AL	AM	AO	AR	AS	AT
Priority Count	y Project Title	Category	Class	Family	Phase	Current Estimate	FY20 State Spend	FY20 Fed Spend	FY 2020 TOTAL	FY20 Other Spend	FY21 State Spend	FY21 Fed Spend	FY 2021 TOTAL	FY21 Other Spend	FY22 State Spend	FY22 Fed Spend	FY 2022 TOTAL	FY22 Other Spend	FY23 State Spend	FY23 Fed Spend	FY 2023 TOTAL	FY23 Other Spend
543 Various Kent 544 Various Kent	Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County	Road Systems Road Systems		Safety Improvent Safety Improvent	ne PD ne PE	500,000	300,000			-	-	-		-	-	-		-	-	-		-
545 Various Kent 546 Various Kent 547 Various Kent	Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County	Road Systems Road Systems Road Systems	Locals Locals	Safety Improvent Safety Improvent Safety Improvent	ne ROW	96,433 300,000 2,000,000	-	-	***************************************	-	300,000	-		-	400,000	1,600,000		-	-	-		-
548 Various Kent 549 Various Kent	Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County	Road Systems Road Systems	Locals Locals	Safety Improvent Safety Improvent	ne C ne Traffic	468,627 9,827	-	-	***************************************	-	-	-		-	-	1,000,000		-	-	-		-
550 Various Kent 551 Various Kent 552 Various	Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County Total	Road Systems Road Systems	Locals	Safety Improvent	ne Utilities ne Contingency	18,000 172,646 3,565,533		-		-	300,000	- - -		-	400,000	1,600,000	<u> </u>	-	-	-		-
553 94 Kent 554 94 Kent 555 94 Kent	HEP KC, SR 8 & SR 15 Intersection Improvements HEP KC, SR 8 & SR 15 Intersection Improvements HEP KC, SR 8 & SR 15 Intersection Improvements	Road Systems Road Systems Road Systems	Arterials	Arterials	PE ROW C	1,162,032 900,000 3,000,000	700,000	73,100		-	300,000	2,700,000		-				-				
556 94 557 63 Kent	HEP KC, SR 8 & SR 15 Intersection Improvements Total Loockerman Street / Forest Avenue Loockerman Street / Forest Avenue	Road Systems	Arterials	Arterials	PD	5,062,032 246,830		73,100		-	300,000	2,700,000		-	-	-		-	-	-		-
558 63 Kent 559 63 Kent 560 63 Kent	Loockerman Street / Forest Avenue Loockerman Street / Forest Avenue	Road Systems Road Systems Road Systems	Arterials	Arterials	ROW C	63,240 200,000 3,500,000	-	-		-	700,000	2,800,000		-	-	-		-				
561 63 562 34 Kent 563 34 Kent	Loockerman Street / Forest Avenue Total  Canterbury Road - SR 12 to US 13  Canterbury Road - SR 12 to US 13	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	PE ROW	4,010,070 800,000 1,000,000	200,000	-		-	700,000	2,800,000		-	-	-		-	400,000	-		-
564 34 Kent 565 34 566 22 Kent	Canterbury Road - SR 12 to US 13 Canterbury Road - SR 12 to US 13 Total SR 1, Little Heaven Grade Separated Intersection	Road Systems  Road Systems	Arterials	Arterials	C	3,200,000 5,000,000 605,360	-	-		-	-	-		-		-		-	400,000	-		-
567 22 Kent 568 22 Kent	SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	PE PE	4,399,200 400,000	-	-	***************************************	-	-	-		-	-	***************************************		-	***************************************	***************************************		
569 22 Kent 570 22 Kent 571 22 Kent	SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials Arterials		ROW ROW	699,800 18,960,000 840,000		-		-	-	-		-	-			-				
572 22 Kent 573 22 Kent 574 22 Kent	SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials Arterials	Arterials	CE C	6,222,415 39,782,632 364,401	-	-	***************************************		-	-		-	-				***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
575 22 Kent 576 22 Kent	SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	Traffic Utilities	1,698,900 594,276				-	-	-		-	-			-				
577 22 Kent 578 22 Kent 579 22 Kent	SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials	Arterials	Utilities Contingency Maintenance	6,300,000 2,479,057 50,000																
580 22 581 71 Kent 582 71 Kent	SR 1, Little Heaven Grade Separated Intersection Total SR 1, NE Front Street Grade Separated Intersection SR 1, NE Front Street Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	PE ROW	83,396,041 726,936 3,700,000	-	-		-	-	-		-	-	-		-	-	-		-
583 71 Kent 584 71 Kent 585 71 Kent	SR 1, NE Front Street Grade Separated Intersection SR 1, NE Front Street Grade Separated Intersection SR 1, NE Front Street Grade Separated Intersection SR 1. NE Front Street Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials Arterials	Arterials Arterials	CE C Traffic	2,210,732 12,560,714 626,405	358,798	1,435,191	***************************************	-	-	-		-	-			-		· · · · · · · · · · · · · · · · · · ·		
586 71 Kent 587 71 Kent	SR 1, NE Front Street Grade Separated Intersection SR 1, NE Front Street Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	Utilities Contingency	338,208 1,585,962	3 - 3 317,192	1,268,770		-	- -	- -		-	-	-		-				
588 71 Kent 589 71 590 100 Kent	SR 1, NE Front Street Grade Separated Intersection SR 1, NE Front Street Grade Separated Intersection Total SR 1, South Frederica Grade Separated Intersection	Road Systems Road Systems	Arterials	Arterials	Maintenance	442,000 22,190,957 489,204		2,703,960		-	-	-		-	-	-		-	-	-		-
591 100 Kent 592 100 Kent	SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	PE ROW	2,988,700 2,488,734	-	-		-	-	-		-	-			-	•			
593 100 Kent 594 100 Kent 595 100 Kent	SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials	Arterials	CE C Traffic	4,355,650 18,364,798 779,976	-	-		-	-	-		-	-			-				
596 100 Kent 597 100 Kent 598 100 Kent	SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials	Arterials	Utilities Contingency	650,245 2,166,211 190,000	-	-		-	-	-		-	-	-		-				
598 100 Kent 599 100 Kent 600 100	SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection Total	Road Systems	Arterials	Arterials	Maintenance	80,000 32,553,517	-	-			-	-			-	-			-	-		-
601 DNS Kent 602 DNS Kent 603 DNS Kent	SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials	Arterials	PD PE ROW	685,425 250,000 8,576,568	-	-	***************************************	-	-	-		-		***************************************		-	***************************************	***************************************		
604 DNS Kent 605 DNS Kent 606 DNS Kent	SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials Arterials	Arterials Arterials	CE C Traffic	2,115,743 11,531,132 356,000		-		-	-	-		-	-	-		-				
607 DNS Kent 608 DNS Kent	SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	Utilities Contingency	366,197 1,818,685	-	-	***************************************	-	-	-		-	-			-	***************************************	······		
609 DNS Kent 610 DNS 611 23 Kent	SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection Total HEP, KC, US13, Lochmeath Way to Puncheon Run Connector	Road Systems		Arterials Safety Improven	Maintenance ne PE	10,000 25,709,752 5,710,000	180,000	720,000		-	50,000	200,000		-	-	-		-	-	-		-
612 23 Kent 613 23 Kent 614 23	HEP, KC, US13, Lochmeath Way to Puncheon Run Connector HEP, KC, US13, Lochmeath Way to Puncheon Run Connector HEP, KC, US13, Lochmeath Way to Puncheon Run Connector Total	Road Systems Road Systems	Arterials	Safety Improven	ne ROW ne C	2,000,000 66,000,000 73,710,000	1,000,000	720,000		-	1,000,000 200,000 1,250,000	800,000 1,000,000		-	1,500,000 1,500,000	6,000,000 <b>6,000,000</b>		-	4,400,000 <b>4,400,000</b>	17,600,000 <b>17,600,000</b>		
615 24 Kent 616 24 Kent	HEP KC, US13 Walnut Shade Rd. to Lochmeath Way HEP KC, US13 Walnut Shade Rd. to Lochmeath Way	Road Systems Road Systems	Arterials	Safety Improven	ne PE ne ROW	1,635,000 500,000	1,180,000	-			400,000 250,000	-		-	291,000 250,000	0,000,000		-				
617 24 Kent 618 24 619 19 Kent	HEP KC, US13 Walnut Shade Rd. to Lochmeath Way  HEP KC, US13 Walnut Shade Rd. to Lochmeath Way Total  Walnut Shade Road, US13 to Peachtree Run Road	Road Systems	Arterials	Safety Improven	ne C ne PE	16,500,000 18,635,000 150,000	444,000 50,000	:		-	650,000	-		-	541,000	-		-	1,700,000 1,700,000	6,800,000 <b>6,800,000</b>		-
620 19 Kent 621 19 Kent 622 19	Walnut Shade Road, US13 to Peachtree Run Road Walnut Shade Road, US13 to Peachtree Run Road Walnut Shade Road, US13 to Peachtree Run Road Total	Road Systems Road Systems		Safety Improvent Safety Improvent	ne ROW ne C	1,000,000 5,000,000 <b>6,150,00</b> 0	50,000				500,000 500,000	-			500,000 500,000	-			100,000 <b>100,000</b>	400,000 <b>400,000</b>		
623 78 Kent 624 78 Kent	South State Street/Plaindealing Road/Woodlytown Road Intersection Impre South State Street/Plaindealing Road/Woodlytown Road Intersection Impre South State Street/Plaindealing Road/Woodlytown Road Intersection Impre	ovemer Road Systems	Arterials	Intersection Impe Intersection Impe	ro PE ro ROW	500,000 800,000	30,000	-			300,000				300,000				-	400,000		
625 78 Kent 626 78 627 55 Kent	South State Street/Plaindealing Road/Woodlytown Road Intersection Impro South State Street/Plaindealing Road/Woodlytown Road Intersection Im SR8, Connector from Commerce Way to SR8	nprovements Total  Road Systems  Road Systems	Arterials	Intersection Impe	PE	1,200,000 2,500,000 500,000	-			-	150,000	-		-	200,000	-		-	150,000	-		-
628 55 Kent 629 55 Kent 630 55	SR8, Connector from Commerce Way to SR8 SR8, Connector from Commerce Way to SR8 SR8, Connector from Commerce Way to SR8 Total	Road Systems Road Systems	Locals	Locals Locals	ROW C	800,000 1,200,000 <b>2,500,00</b> 0	)	_			150.000			-	200,000				150,000			
631 104 Kent 632 104 Kent 633 104 Kent	SR 1, Scarborough Road C-D Roads SR 1, Scarborough Road C-D Roads	Road Systems Road Systems Road Systems	Collectors	Collectors	PE ROW	850,000 1,200,000 31,000,000	)				250,000			1	350,000				250,000			
634 104 635 25 Kent	SR 1, Scarborough Road C-D Roads SR 1, Scarborough Road C-D Roads Total NE Front Street Rehoboth Blvd to SR 1	Road Systems	Collectors	Collectors	PE	33,050,000 750,000	-	-		-	250,000 200,000	-		-	350,000 350,000	-		-	250,000 200,000	-		-
636 25 Kent 637 25 Kent 638 25	NE Front Street Rehoboth Blvd to SR 1 Total	Road Systems Road Systems	Collectors	Collectors Collectors	C	900,000 4,500,000 <b>6,150,00</b> 0	-				200,000	-			350,000				200,000	_		
639 84 Kent 640 84 Kent	Irish Hill Road, Fox Chase Road to McGinnis Pond Road Irish Hill Road, Fox Chase Road to McGinnis Pond Road Irish Hill Road Fox Chase Road to McGinnis Pond Road	Road Systems Road Systems Road Systems	Collectors	Collectors	PE ROW	750,000 750,000 5,000,000	)				200,000				350,000				200,000			
642 84 643 85 Kent	Irish Hill Road, Fox Chase Road to McGinnis Pond Road Total College Road, Kenton Road to McKee Road	Road Systems	Collectors	Collectors	PE	<b>6,500,000</b> 750,000	)	-		-	200,000	-		-	350,000	-		-	200,000 375,000	-		-
645 85 Kent 646 85 Kent	College Road, Kenton Road to McKee Road College Road, Kenton Road to McKee Road College Road, Kenton Road to McKee Road Total	Road Systems Road Systems	Collectors	Collectors	C	1,000,000 2,500,000 <b>4,250,00</b> 0	-				-			-	-				375,000	_		
641 84 Kent 642 84 643 85 Kent 644 85 Kent 645 85 Kent 646 85 647 12 Kent 648 12 Kent 649 12 Kent 650 12	Camden Bypass, North Street Extended to SR10 Camden Bypass, North Street Extended to SR10 Camden Bypass, North Street Extended to SR10	Road Systems Road Systems Road Systems	Collectors	Collectors	PE ROW	1,000,000 1,200,000 2,500,000	350,000 100,000	-			100,000 1,100,000 10,000	40.000			390,000	1,560,000			100,000	400,000		
650 12 651 3 Kent	Camden Bypass, North Street Extended to SR10 Total Camden Bypass, South Street to Rising Sun Road	Road Systems	Collectors	Collectors	PE	<b>4,700,000</b>	40,000	160,000		-	1,210,000 60,000	40,000 40,000 240,000		-	390,000	1,560,000		-	100,000	400,000		-
652 3 Kent 653 3 Kent 654 3	Camden Bypass, South Street to Rising Sun Road Camden Bypass, South Street to Rising Sun Road Camden Bypass, South Street to Rising Sun Road Total	Road Systems Road Systems	Collectors	Collectors	C	2,000,000 10,000,000 13,600,000	)	160,000			1,900,000 10,000 1,970,000	40,000 280,000		-	1,000,000 <b>1,000,000</b>	4,000,000 <b>4,000,000</b>			990,000 <b>990,000</b>	3,960,000 <b>3,960,000</b>		
655 48 Kent 656 48 Kent 657 48 Kent	Crawford Carroll Avenue Extension Crawford Carroll Avenue Extension Crawford Carroll Avenue Extension	Road Systems Road Systems Road Systems	Locals	Locals	PE ROW C	200,000 8,000,000 3,000,000	8,000,000	-			300,000	1.200.000		-	300,000	1.200.000		-				
658 48 659 73 Kent	Crawford Carroll Avenue Extension Total K104, Kenton Rd. SR8 to Chestnut Grove Rd.	Road Systems	Collectors	Collectors	PE	11,200,000 2,301,482	2	-		-	300,000 18,305	1,200,000 73,222		-	300,000	1,200,000		-	-	-		-
660 73 Kent 661 73 Kent 662 73	K104, Kenton Rd. SR8 to Chestnut Grove Rd. K104, Kenton Rd. SR8 to Chestnut Grove Rd. K104, Kenton Rd. SR8 to Chestnut Grove Rd. Total	Road Systems Road Systems	Collectors	Collectors	C	1,200,000 16,000,000 19,501,482	144,000 144,000 144,000	576,000 - 576,000		-	96,000 - 114,305	384,000 - 457,222		-	-	-		-	100,000 <b>100,000</b>	400,000 <b>400,000</b>		-
662 73 663 75 Kent 664 75 Kent 665 75 Kent 666 75 667 SOGR Kent	West Street, New Burton Road to North Street West Street, New Burton Road to North Street West Street, New Burton Road to North Street	Road Systems Road Systems Road Systems	Collectors	Collectors	PE ROW	400,000 250,000 650,000	)				200,000	-			200,000 50,000	-			200,000	-		
665 75 Kent 666 75 667 SOGR Kent	West Street, New Burton Road to North Street Total South Frederica Park & Ride	Transit Systems	Facilities	Transit Facilities	s PE	1,300,000 227,000		-		-	200,000	-		-	250,000	-		-	200,000	-		-
669 SOGR Kent 670 SOGR Kent	South Frederica Park & Ride South Frederica Park & Ride South Frederica Park & Ride	Transit Systems	Facilities	Transit Facilities Transit Facilities Transit Facilities	s CE s C s Contingency	28,000 1,468,000 225,000	225,000	-		-	-	-		-		-		-				
671 SOGR 672 SOGR Kent	South Frederica Park & Ride Total  Dover Facility Renovations  Dover Facility Renovations	Transit Systems	Facilities	Transit Facilities		1,948,000 147,000 1,500,000		-		-	-	-		-	-	-		-	-	-		-
674 SOGR Kent 675 SOGR Kent	Dover Facility Renovations Total Bus Facilities - Electric Bus Modifications	Transit Systems	Facilities	Transit Facilities	s PE	1,647,000 62,785		-		-	-	-		-	-	-		-		-		-
676 SOGR Kent 677 SOGR Kent 678 SOGR Kent	Bus Facilities - Electric Bus Modifications Bus Facilities - Electric Bus Modifications Bus Facilities - Electric Bus Modifications	Transit Systems	Facilities	Transit Facilities Transit Facilities Transit Facilities	s Procurement	26,561 1,285,215 363,439	1 - 165,000	385,000		-	-	-		-	-	-		-				
679 SOGR	Bus Facilities - Electric Bus Modifications Total	- runni Systems	- acmues	acmide		1,738,000	165,000	385,000			-	-		1 -	-	-	İ	1	-			-

#### APPENDIX E-A KENT COUNTY PROJECTS

	A	В	C	F	G	H	I	K	V	W	X	Y	AC	AD	AE	AF	AJ	AK	AL	AM	AQ	AR	AS	AT
Pr	riority C	County	Project Title	Category	Class	Family	Phase	Current Estimate	FY20 State Spend	FY20 Fed Spend	FY 2020 TOTAL	FY20 Other Spend	FY21 State Spend	FY21 Fed Spend	FY 2021 TOTAL	FY21 Other Spend	FY22 State Spend	FY22 Fed Spend	FY 2022 TOTAL	FY22 Other Spend	FY23 State Spend	FY23 Fed Spend	FY 2023 TOTAL	FY23 Other Spend
680 S	OGR Ke	ent	Fransit Vehicle Expansion (6) 35' Electric Buses KC FY18	Transit Systems	Vehicles	Transit Vehicles	Procurement	1,551,000	- 1	-		-		-			-	-		-				
681 S	OGR Ke	ent	Fransit Vehicle Expansion (6) 35' Electric Buses KC FY18	Transit Systems	Vehicles	Transit Vehicles	Procurement	3,869,628	520,000	2,080,000		-	-	-			-	-						
682 S	OGR		Fransit Vehicle Expansion (6) 35' Electric Buses KC FY18 Total					5,420,628	520,000	2,080,000		-	-	_		-	-	-		-	-	-		-
683 S	OGR Ke	ent	Preventive Maintenance - Kent County	Transit Systems	Vehicles	Transit Vehicles	Procurement	954,400	-	95,400		23,900	-	95,400		23,900	-	95,400		23,900		95,400		23,900
684 S	OGR		Preventive Maintenance - Kent County Total					954,400		95,400		23,900		95,400		23,900	-	95,400		23,900		95,400		23,900
685 S	OGR Ke	ent	Fransit Vehicle Replacement (13) 30' Low Floor Buses KC FY21	Transit Systems	Vehicles	Transit Vehicles	Procurement	6,883,500	-	-		-	1,376,700	5,506,800		-	-	-		-				
686 S	OGR		Fransit Vehicle Replacement (13) 30' Low Floor Buses KC FY21 Total					6,883,500	-				1,376,700	5,506,800		-	-					- '		-
687 S	OGR Ke	ent	Fransit Vehicle Replacement (4) 30° Low Floor Buses KC FY20	Transit Systems	Vehicles	Transit Vehicles	Procurement	2,004,120	400,824	1,603,296		-		-		-	-	-		-				1
688 S	OGR		Fransit Vehicle Replacement (4) 30' Low Floor Buses KC FY20 Total					2,004,120	400,824	1,603,296				-		-	-					-		-
689 S	OGR Ke	ent	Fransit Vehicle Replacement Paratransit Buses KC Program	Transit Systems	Vehicles	Transit Vehicles	Procurement	10,534,800	80,160	320,640		-	405,280	1,621,120			500,400	2,001,600			210,080	840,320		
690 S	OGR		Fransit Vehicle Replacement Paratransit Buses KC Program Total					10,534,800	80,160	320,640			405,280	1,621,120		-	500,400	2,001,600		-	210,080	840,320		-
691	Ke	ent Tota						416,364,833	15,911,341	8,717,396		23,900	10,076,286	15,700,541		23,900	6,631,400	16,457,000		23,900	9,375,080	30,495,720		23,900

# **APPENDIX E-B Annual Listing of Projects**

Statewide

Full size versions of these charts are available at DoverKentMPO.org.

ГАВ	С	F	G	Н	1	K	v	W	X	Y	AC	AD	AE	AF	AJ	AK	AL	AM	AO	AR	AS	AT
Priority Count	y Project Title	Category	Class	Family	Phase	Current Estimate	FY20 State Spend	FY20 Fed Spend	FY 2020 TOTAL	FY20 Other Spend	FY21 State Spend	FY21 Fed Spend	FY 2021 TOTAL	FY21 Other Spend	FY22 State Spend	FY22 Fed Spend	FY 2022 TOTAL	FY22 Other Spend	FY23 State Spend	FY23 Fed Spend	FY 2023 TOTAL	FY23 Other Spend
543 Various Kent 544 Various Kent	Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County	Road Systems Road Systems		Safety Improvent Safety Improvent	ne PD ne PE	500,000	300,000			-	-	-		-	-	-		-	-	-		-
545 Various Kent 546 Various Kent 547 Various Kent	Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County	Road Systems Road Systems Road Systems	Locals Locals	Safety Improvent Safety Improvent Safety Improvent	ne ROW	96,433 300,000 2,000,000	-	-	***************************************	-	300,000	-		-	400,000	1,600,000		-	-	-		-
548 Various Kent 549 Various Kent	Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County	Road Systems Road Systems	Locals Locals	Safety Improvent Safety Improvent	ne C ne Traffic	468,627 9,827	-	-	***************************************	-	-	-		-	-	1,000,000		-	-	-		-
550 Various Kent 551 Various Kent 552 Various	Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County Highway SAFETY Improvement Program - Kent County Total	Road Systems Road Systems	Locals	Safety Improvent	ne Utilities ne Contingency	18,000 172,646 3,565,533		-		-	300,000	- - -		-	400,000	1,600,000	<u> </u>	-	-	-		-
553 94 Kent 554 94 Kent 555 94 Kent	HEP KC, SR 8 & SR 15 Intersection Improvements HEP KC, SR 8 & SR 15 Intersection Improvements HEP KC, SR 8 & SR 15 Intersection Improvements	Road Systems Road Systems Road Systems	Arterials	Arterials	PE ROW C	1,162,032 900,000 3,000,000	700,000	73,100		-	300,000	2,700,000		-				-				
556 94 557 63 Kent	HEP KC, SR 8 & SR 15 Intersection Improvements Total Loockerman Street / Forest Avenue Loockerman Street / Forest Avenue	Road Systems	Arterials	Arterials	PD	5,062,032 246,830		73,100		-	300,000	2,700,000		-	-	-		-	-	-		-
558 63 Kent 559 63 Kent 560 63 Kent	Loockerman Street / Forest Avenue Loockerman Street / Forest Avenue	Road Systems Road Systems Road Systems	Arterials	Arterials	ROW C	63,240 200,000 3,500,000	-	-		-	700,000	2,800,000		-	-	-		-				
561 63 562 34 Kent 563 34 Kent	Loockerman Street / Forest Avenue Total  Canterbury Road - SR 12 to US 13  Canterbury Road - SR 12 to US 13	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	PE ROW	4,010,070 800,000 1,000,000	200,000	-		-	700,000	2,800,000		-	-	-		-	400,000	-		-
564 34 Kent 565 34 566 22 Kent	Canterbury Road - SR 12 to US 13 Canterbury Road - SR 12 to US 13 Total SR 1, Little Heaven Grade Separated Intersection	Road Systems  Road Systems	Arterials	Arterials	C	3,200,000 5,000,000 605,360	-	-		-	-	-		-		-		-	400,000	-		-
567 22 Kent 568 22 Kent	SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	PE PE	4,399,200 400,000	-	-	***************************************	-	-	-		-	-	***************************************		-	***************************************	***************************************		
569 22 Kent 570 22 Kent 571 22 Kent	SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials Arterials		ROW ROW	699,800 18,960,000 840,000		-		-	-	-		-	-			-				
572 22 Kent 573 22 Kent 574 22 Kent	SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials Arterials	Arterials	CE C	6,222,415 39,782,632 364,401	-	-	***************************************		-	-		-	-			-	***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
575 22 Kent 576 22 Kent	SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	Traffic Utilities	1,698,900 594,276				-	-	-		-	-			-				
577 22 Kent 578 22 Kent 579 22 Kent	SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection SR 1, Little Heaven Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials	Arterials	Utilities Contingency Maintenance	6,300,000 2,479,057 50,000																
580 22 581 71 Kent 582 71 Kent	SR 1, Little Heaven Grade Separated Intersection Total SR 1, NE Front Street Grade Separated Intersection SR 1, NE Front Street Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	PE ROW	83,396,041 726,936 3,700,000	-	-		-	-	-		-	-	-		-	-	-		-
583 71 Kent 584 71 Kent 585 71 Kent	SR 1, NE Front Street Grade Separated Intersection SR 1, NE Front Street Grade Separated Intersection SR 1, NE Front Street Grade Separated Intersection SR 1. NE Front Street Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials Arterials	Arterials Arterials	CE C Traffic	2,210,732 12,560,714 626,405	358,798	1,435,191	***************************************	-	-	-		-	-			-		· · · · · · · · · · · · · · · · · · ·		
586 71 Kent 587 71 Kent	SR 1, NE Front Street Grade Separated Intersection SR 1, NE Front Street Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	Utilities Contingency	338,208 1,585,962	3 - 3 317,192	1,268,770		-	- -	- -		-	-	-		-				
588 71 Kent 589 71 590 100 Kent	SR 1, NE Front Street Grade Separated Intersection SR 1, NE Front Street Grade Separated Intersection Total SR 1, South Frederica Grade Separated Intersection	Road Systems Road Systems	Arterials	Arterials	Maintenance	442,000 22,190,957 489,204		2,703,960		-	-	-		-	-	-		-	-	-		-
591 100 Kent 592 100 Kent	SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	PE ROW	2,988,700 2,488,734	-	-		-	-	-		-	-			-	•			
593 100 Kent 594 100 Kent 595 100 Kent	SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials	Arterials	CE C Traffic	4,355,650 18,364,798 779,976	-	-		-	-	-		-	-			-				
596 100 Kent 597 100 Kent 598 100 Kent	SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials	Arterials	Utilities Contingency	650,245 2,166,211 190,000	-	-		-	-	-		-	-	-		-				
598 100 Kent 599 100 Kent 600 100	SR 1, South Frederica Grade Separated Intersection SR 1, South Frederica Grade Separated Intersection Total	Road Systems	Arterials	Arterials	Maintenance	80,000 32,553,517	-	-			-	-			-	-			-	-		-
601 DNS Kent 602 DNS Kent 603 DNS Kent	SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials	Arterials	PD PE ROW	685,425 250,000 8,576,568	-	-	***************************************	-	-	-		-		***************************************		-	***************************************	***************************************		
604 DNS Kent 605 DNS Kent 606 DNS Kent	SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection	Road Systems Road Systems Road Systems	Arterials Arterials	Arterials Arterials	CE C Traffic	2,115,743 11,531,132 356,000		-		-	-	-		-	-	-		-				
607 DNS Kent 608 DNS Kent	SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection	Road Systems Road Systems	Arterials Arterials	Arterials Arterials	Utilities Contingency	366,197 1,818,685	-	-	***************************************	-	-	-		-	-			-	***************************************	······		
609 DNS Kent 610 DNS 611 23 Kent	SR 1, Thompsonville Grade Separated Intersection SR 1, Thompsonville Grade Separated Intersection Total HEP, KC, US13, Lochmeath Way to Puncheon Run Connector	Road Systems		Arterials Safety Improven	Maintenance ne PE	10,000 25,709,752 5,710,000	180,000	720,000		-	50,000	200,000		-	-	-		-	-	-		-
612 23 Kent 613 23 Kent 614 23	HEP, KC, US13, Lochmeath Way to Puncheon Run Connector HEP, KC, US13, Lochmeath Way to Puncheon Run Connector HEP, KC, US13, Lochmeath Way to Puncheon Run Connector Total	Road Systems Road Systems	Arterials	Safety Improven	ne ROW ne C	2,000,000 66,000,000 73,710,000	1,000,000	720,000		-	1,000,000 200,000 1,250,000	800,000 1,000,000		-	1,500,000 1,500,000	6,000,000 <b>6,000,000</b>		-	4,400,000 <b>4,400,000</b>	17,600,000 <b>17,600,000</b>		
615 24 Kent 616 24 Kent	HEP KC, US13 Walnut Shade Rd. to Lochmeath Way HEP KC, US13 Walnut Shade Rd. to Lochmeath Way	Road Systems Road Systems	Arterials	Safety Improven	ne PE ne ROW	1,635,000 500,000	1,180,000	-			400,000 250,000	-		-	291,000 250,000	0,000,000		-				
617 24 Kent 618 24 619 19 Kent	HEP KC, US13 Walnut Shade Rd. to Lochmeath Way  HEP KC, US13 Walnut Shade Rd. to Lochmeath Way Total  Walnut Shade Road, US13 to Peachtree Run Road	Road Systems	Arterials	Safety Improven	ne C ne PE	16,500,000 18,635,000 150,000	444,000 50,000	:		-	650,000	-		-	541,000	-		-	1,700,000 1,700,000	6,800,000 <b>6,800,000</b>		-
620 19 Kent 621 19 Kent 622 19	Walnut Shade Road, US13 to Peachtree Run Road Walnut Shade Road, US13 to Peachtree Run Road Walnut Shade Road, US13 to Peachtree Run Road Total	Road Systems Road Systems		Safety Improvent Safety Improvent	ne ROW ne C	1,000,000 5,000,000 <b>6,150,00</b> 0	50,000				500,000 500,000	-			500,000 500,000	-			100,000 <b>100,000</b>	400,000 <b>400,000</b>		
623 78 Kent 624 78 Kent	South State Street/Plaindealing Road/Woodlytown Road Intersection Impre South State Street/Plaindealing Road/Woodlytown Road Intersection Impre South State Street/Plaindealing Road/Woodlytown Road Intersection Impre	ovemer Road Systems	Arterials	Intersection Impe Intersection Impe	ro PE ro ROW	500,000 800,000	30,000	-			300,000				300,000				-	400,000		
625 78 Kent 626 78 627 55 Kent	South State Street/Plaindealing Road/Woodlytown Road Intersection Impro South State Street/Plaindealing Road/Woodlytown Road Intersection Im SR8, Connector from Commerce Way to SR8	nprovements Total  Road Systems  Road Systems	Arterials	Intersection Impe	PE	1,200,000 2,500,000 500,000	-			-	150,000	-		-	200,000	-		-	150,000	-		-
628 55 Kent 629 55 Kent 630 55	SR8, Connector from Commerce Way to SR8 SR8, Connector from Commerce Way to SR8 SR8, Connector from Commerce Way to SR8 Total	Road Systems Road Systems	Locals	Locals Locals	ROW C	800,000 1,200,000 <b>2,500,00</b> 0	)	_			150.000			-	200,000				150,000			
631 104 Kent 632 104 Kent 633 104 Kent	SR 1, Scarborough Road C-D Roads SR 1, Scarborough Road C-D Roads	Road Systems Road Systems Road Systems	Collectors	Collectors	PE ROW	850,000 1,200,000 31,000,000	)				250,000			1	350,000				250,000			
634 104 635 25 Kent	SR 1, Scarborough Road C-D Roads SR 1, Scarborough Road C-D Roads Total NE Front Street Rehoboth Blvd to SR 1	Road Systems	Collectors	Collectors	PE	33,050,000 750,000	-	-		-	250,000 200,000	-		-	350,000 350,000	-		-	250,000 200,000	-		-
636 25 Kent 637 25 Kent 638 25	NE Front Street Rehoboth Blvd to SR 1 Total	Road Systems Road Systems	Collectors	Collectors Collectors	C	900,000 4,500,000 <b>6,150,00</b> 0	-				200,000				350,000				200,000	_		
639 84 Kent 640 84 Kent	Irish Hill Road, Fox Chase Road to McGinnis Pond Road Irish Hill Road, Fox Chase Road to McGinnis Pond Road Irish Hill Road Fox Chase Road to McGinnis Pond Road	Road Systems Road Systems Road Systems	Collectors	Collectors	PE ROW	750,000 750,000 5,000,000	)				200,000				350,000				200,000			
642 84 643 85 Kent	Irish Hill Road, Fox Chase Road to McGinnis Pond Road Total College Road, Kenton Road to McKee Road	Road Systems	Collectors	Collectors	PE	<b>6,500,000</b> 750,000	)	-		-	200,000	-		-	350,000	-		-	200,000 375,000	-		-
645 85 Kent 646 85 Kent	College Road, Kenton Road to McKee Road College Road, Kenton Road to McKee Road College Road, Kenton Road to McKee Road Total	Road Systems Road Systems	Collectors	Collectors	C	1,000,000 2,500,000 <b>4,250,00</b> 0	-				-			-	-				375,000	_		
641 84 Kent 642 84 643 85 Kent 644 85 Kent 645 85 Kent 646 85 647 12 Kent 648 12 Kent 649 12 Kent 650 12	Camden Bypass, North Street Extended to SR10 Camden Bypass, North Street Extended to SR10 Camden Bypass, North Street Extended to SR10	Road Systems Road Systems Road Systems	Collectors	Collectors	PE ROW	1,000,000 1,200,000 2,500,000	350,000 100,000	-			100,000 1,100,000 10,000	40.000			390,000	1,560,000			100,000	400,000		
650 12 651 3 Kent	Camden Bypass, North Street Extended to SR10 Total Camden Bypass, South Street to Rising Sun Road	Road Systems	Collectors	Collectors	PE	<b>4,700,000</b>	40,000	160,000		-	1,210,000 60,000	40,000 40,000 240,000		-	390,000	1,560,000		-	100,000	400,000		-
652 3 Kent 653 3 Kent 654 3	Camden Bypass, South Street to Rising Sun Road Camden Bypass, South Street to Rising Sun Road Camden Bypass, South Street to Rising Sun Road Total	Road Systems Road Systems	Collectors	Collectors	C	2,000,000 10,000,000 13,600,000	)	160,000			1,900,000 10,000 1,970,000	40,000 280,000		-	1,000,000 <b>1,000,000</b>	4,000,000 <b>4,000,000</b>			990,000 <b>990,000</b>	3,960,000 <b>3,960,000</b>		
655 48 Kent 656 48 Kent 657 48 Kent	Crawford Carroll Avenue Extension Crawford Carroll Avenue Extension Crawford Carroll Avenue Extension	Road Systems Road Systems Road Systems	Locals	Locals	PE ROW C	200,000 8,000,000 3,000,000	8,000,000	-			300,000	1.200.000		-	300,000	1.200.000		-				
658 48 659 73 Kent	Crawford Carroll Avenue Extension Total K104, Kenton Rd. SR8 to Chestnut Grove Rd.	Road Systems	Collectors	Collectors	PE	11,200,000 2,301,482	2	-		-	300,000 18,305	1,200,000 73,222		-	300,000	1,200,000		-	-	-		-
660 73 Kent 661 73 Kent 662 73	K104, Kenton Rd. SR8 to Chestnut Grove Rd. K104, Kenton Rd. SR8 to Chestnut Grove Rd. K104, Kenton Rd. SR8 to Chestnut Grove Rd. Total	Road Systems Road Systems	Collectors	Collectors	C	1,200,000 16,000,000 19,501,482	144,000 144,000 144,000	576,000 - 576,000		-	96,000 - 114,305	384,000 - 457,222		-	-	-		-	100,000 <b>100,000</b>	400,000 <b>400,000</b>		-
662 73 663 75 Kent 664 75 Kent 665 75 Kent 666 75 667 SOGR Kent	West Street, New Burton Road to North Street West Street, New Burton Road to North Street West Street, New Burton Road to North Street	Road Systems Road Systems Road Systems	Collectors	Collectors	PE ROW	400,000 250,000 650,000	)				200,000	-			200,000 50,000	-			200,000	-		
665 75 Kent 666 75 667 SOGR Kent	West Street, New Burton Road to North Street Total South Frederica Park & Ride	Transit Systems	Facilities	Transit Facilities	s PE	1,300,000 227,000		-		-	200,000	-		-	250,000	-		-	200,000	-		-
669 SOGR Kent 670 SOGR Kent	South Frederica Park & Ride South Frederica Park & Ride South Frederica Park & Ride	Transit Systems	Facilities	Transit Facilities Transit Facilities Transit Facilities	s CE s C s Contingency	28,000 1,468,000 225,000	225,000	-		-	-	-		-		-		-				
671 SOGR 672 SOGR Kent	South Frederica Park & Ride Total  Dover Facility Renovations  Dover Facility Renovations	Transit Systems	Facilities	Transit Facilities		1,948,000 147,000 1,500,000		-		-	-	-		-	-	-		-	-	-		-
674 SOGR Kent 675 SOGR Kent	Dover Facility Renovations Total Bus Facilities - Electric Bus Modifications	Transit Systems	Facilities	Transit Facilities	s PE	1,647,000 62,785		-		-	-	-		-	-	-		-		-		-
676 SOGR Kent 677 SOGR Kent 678 SOGR Kent	Bus Facilities - Electric Bus Modifications Bus Facilities - Electric Bus Modifications Bus Facilities - Electric Bus Modifications	Transit Systems	Facilities	Transit Facilities Transit Facilities Transit Facilities	s Procurement	26,561 1,285,215 363,439	1 - 165,000	385,000		-	-	-		-	-	-		-				
679 SOGR	Bus Facilities - Electric Bus Modifications Total	- runni Systems	- acmues	acmide		1,738,000	165,000	385,000			-	-		1 -	-	-	İ	1	-			-

#### APPENDIX E-A KENT COUNTY PROJECTS

	A	В	C	F	G	H	I	K	V	W	X	Y	AC	AD	AE	AF	AJ	AK	AL	AM	AQ	AR	AS	AT
Pr	riority C	County	Project Title	Category	Class	Family	Phase	Current Estimate	FY20 State Spend	FY20 Fed Spend	FY 2020 TOTAL	FY20 Other Spend	FY21 State Spend	FY21 Fed Spend	FY 2021 TOTAL	FY21 Other Spend	FY22 State Spend	FY22 Fed Spend	FY 2022 TOTAL	FY22 Other Spend	FY23 State Spend	FY23 Fed Spend	FY 2023 TOTAL	FY23 Other Spend
680 S	OGR Ke	ent	Fransit Vehicle Expansion (6) 35' Electric Buses KC FY18	Transit Systems	Vehicles	Transit Vehicles	Procurement	1,551,000	- 1	-		-		-			-	-		-				
681 S	OGR Ke	ent	Fransit Vehicle Expansion (6) 35' Electric Buses KC FY18	Transit Systems	Vehicles	Transit Vehicles	Procurement	3,869,628	520,000	2,080,000		-	-	-			-	-						
682 S	OGR		Fransit Vehicle Expansion (6) 35' Electric Buses KC FY18 Total					5,420,628	520,000	2,080,000		-	-	_		-	-	-		-	-	-		-
683 S	OGR Ke	ent	Preventive Maintenance - Kent County	Transit Systems	Vehicles	Transit Vehicles	Procurement	954,400	-	95,400		23,900	-	95,400		23,900	-	95,400		23,900		95,400		23,900
684 S	OGR		Preventive Maintenance - Kent County Total					954,400		95,400		23,900		95,400		23,900	-	95,400		23,900		95,400		23,900
685 S	OGR Ke	ent	Fransit Vehicle Replacement (13) 30' Low Floor Buses KC FY21	Transit Systems	Vehicles	Transit Vehicles	Procurement	6,883,500	-	-		-	1,376,700	5,506,800		-	-	-		-				
686 S	OGR		Fransit Vehicle Replacement (13) 30' Low Floor Buses KC FY21 Total					6,883,500	-				1,376,700	5,506,800		-	-					- '		-
687 S	OGR Ke	ent	Fransit Vehicle Replacement (4) 30° Low Floor Buses KC FY20	Transit Systems	Vehicles	Transit Vehicles	Procurement	2,004,120	400,824	1,603,296		-		-		-	-	-		-				1
688 S	OGR		Fransit Vehicle Replacement (4) 30' Low Floor Buses KC FY20 Total					2,004,120	400,824	1,603,296				-		-	-					-		-
689 S	OGR Ke	ent	Fransit Vehicle Replacement Paratransit Buses KC Program	Transit Systems	Vehicles	Transit Vehicles	Procurement	10,534,800	80,160	320,640		-	405,280	1,621,120			500,400	2,001,600			210,080	840,320		
690 S	OGR		Fransit Vehicle Replacement Paratransit Buses KC Program Total					10,534,800	80,160	320,640			405,280	1,621,120		-	500,400	2,001,600		-	210,080	840,320		-
691	Ke	ent Tota						416,364,833	15,911,341	8,717,396		23,900	10,076,286	15,700,541		23,900	6,631,400	16,457,000		23,900	9,375,080	30,495,720		23,900

APPENDIX F
Population and Employment Estimates
ADOPTED 9-7-2016

## APPENDIX F POPULATION AND HOUSEHOLDS PROJECTIONS

#### **2015 DPC DISTRIBUTION**

### 2015 Step 2: Development Adjustments

2015 Household Projections

					2010	2020	2030	2040
Traffic Analysis Zone	2010	Adjusted 2020	Adjusted 2030	Adjusted 2040	Househoids	Househoids	Househoids	Househoids
Number	Population	Population	Population	Population	Proposed	Proposed	Proposed	Proposed
K001	262	257	261	273	90	88	92	98
K002	1472	1511	1580	1574	504	515	558	569
K003	1172	1393	1568	1483	401	475	554	536
K004	712	811	880	920	244	277	311	332
K005	837	1004	1020	1015	287	342	360	367
K006	74	76	77	81	26	26	28	30
K007	278	417	453	473	97	145	163	174
K008	1662	1901	1912	1865	574	654	681	680
K009	1863	1918	1967	2056	649	666	708	757
K010	617	662	692	723	230	248	268	287
K011	182	186	189	198	67	69	72	77
K012	2002	2338	2561	2677	747	875	991	1062
K013	509	574	618	645	188	212	236	253
K014	1035	1186	1299	1358	360	412	467	500
K015	158	161	164	171	58	60	63	67
K016	1738	1816	1899	1928	605	631	683	710
K017	638	713	746	779	222	248	268	287
K018	1581	1849	1933	1828	551	642	695	673
K019	110	113	115	120	39	40	42	45
K020	827	1214	1487	1554	303	445	564	604
K021	741	807	844	857	265	288	312	324
K022	242	363	365	363	86	129	135	137
K023	477	503	510	534	178	188	198	212
K024	2976	3527	3934	4307	1118	1331	1535	1723
K025	248	312	367	657	93	118	143	263
K026	424	478	500	523	158	179	194	207
K027	796	861	901	941	297	322	349	373
K029	869	1117	1323	1185	310	399	489	448
K054	152	155	158	165	59	61	64	69
K055	264	270	274	286	104	107	112	120

K056	457	552	578	604	179	218	236	253
K057	637	670	720	674	250	265	294	282
K058	336	347	355	371	132	137	145	156
K059	1585	1653	1695	1687	622	653	692	707
K060	225	230	233	244	91	94	98	105
K074	1827	1992	2083	2177	731	805	869	932
K075	2506	2630	2724	2712	1002	1063	1137	1161
K076	953	982	997	1043	524	567	590	637
K077	736	767	779	814	304	323	338	361
K078	213	221	224	235	91	97	102	109
K079	2018	2069	2102	2197	790	822	862	919
K080	1952	2003	2035	2127	787	820	860	919
K081	272	318	355	470	112	133	153	209
K082	917	945	960	1004	386	404	424	455
K083	1029	1062	1079	1128	408	425	446	479
K084	714	739	751	785	284	297	311	334
K085	169	173	176	184	72	76	79	85
K086	196	200	203	517	83	86	90	234
K087	2489	2955	3031	3651	1004	1210	1281	1577
K088	4084	4439	4641	4851	1512	1662	1796	1909
K089	1268	1419	1555	1625	470	527	597	640
K090	1000	1165	1300	1358	370	433	499	535
K091	2131	2251	2309	2413	833	890	943	1007
K092	2021	2221	2366	2474	751	838	923	977
K093	2002	2151	2249	2351	751	815	881	939
K094	1622	1827	2002	2092	557	625	709	759
K095	840	983	1096	1146	296	345	399	427
К096	2347	2768	3087	3227	809	951	1098	1175
K097	1688	1735	1762	1842	582	601	631	671
K098	1964	2014	2045	2138	691	713	750	796
К099	2200	2256	2291	2395	791	818	859	913
K100	342	359	376	393	123	129	140	150
K101	363	373	379	396	131	134	141	151
K102	281	329	367	383	101	118	136	146
K103	1395	1632	1820	1902	462	537	620	663
K104	845	893	925	967	304	321	344	369
K105	347	405	452	945	125	146	168	360

1097	1398	1691	1676	395	460	588	621
3110	3236	3319	3469	1225	1291	1367	1460
565	595	604	632	197	207	217	233
319	338	353	369	112	118	127	136
575	673	750	784	214	251	289	310
285	306	320	334	105	113	122	131
279	305	325	339	103	113	124	133
226	231	235	246	78	79	84	89
184	188	191	199	72	74	78	83
1661	1936	2328	2535	687	811	1354	1561
250	284	294	308	103	119	127	136
45	50	51	53	18	20	21	23
49	53	55	56	20	21	23	24
32	33	33	35	13	13	14	15
284	295	303	316	88	90	96	102
786	820	841	879	242	250	266	284
524	591	642	671	181	203	228	244
2129	2469	2753	2878	705	812	938	1003
1281	1575	1819	1901	466	573	685	733
1685	2239	2453	2662	628	838	949	1056
392	454	497	520	151	176	199	213
669	685	696	728	257	265	278	298
313	341	363	380	117	128	141	151
1608	1816	1899	1928	598	677	732	762
205	278	349	574	79	108	140	235
375	439	490	512	136	159	183	196
1296	1490	1661	1737	477	550	634	679
987	1282	1734	1969	367	479	1114	1349
930	1254	1524	1593	336	453	569	610
1996	2326	2594	2711	756	896	1033	1094
1029	1078	1128	1482	390	412	445	598
443	500	617	830	170	194	247	340
480	547	615	643	182	208	242	259
638	745	831	868	246	291	335	356
440	593	721	969	165	224	281	387
562	629	683	1156	211	238	267	462
308	431	528	552	116	163	206	221
	3110 565 319 575 285 279 226 184 1661 250 45 49 32 284 786 524 2129 1281 1685 392 669 313 1608 205 375 1296 987 930 1996 1029 443 480 638 440 562	3110       3236         565       595         319       338         575       673         285       306         279       305         226       231         184       188         1661       1936         250       284         45       50         49       53         32       33         284       295         786       820         524       591         2129       2469         1281       1575         1685       2239         392       454         669       685         313       341         1608       1816         205       278         375       439         1296       1490         987       1282         930       1254         1996       2326         1029       1078         443       500         480       547         638       745         440       593         562       629	3110       3236       3319         565       595       604         319       338       353         575       673       750         285       306       320         279       305       325         226       231       235         184       188       191         1661       1936       2328         250       284       294         45       50       51         49       53       55         32       33       33         284       295       303         786       820       841         524       591       642         2129       2469       2753         1281       1575       1819         1685       2239       2453         392       454       497         669       685       696         313       341       363         1608       1816       1899         205       278       349         375       439       490         1296       1490       1661         987       1282 <td>3110       3236       3319       3469         565       595       604       632         319       338       353       369         575       673       750       784         285       306       320       334         279       305       325       339         226       231       235       246         184       188       191       199         1661       1936       2328       2535         250       284       294       308         45       50       51       53         49       53       55       56         32       33       33       35         284       295       303       316         786       820       841       879         524       591       642       671         2129       2469       2753       2878         1281       1575       1819       1901         1685       2239       2453       2662         392       454       497       520         669       685       696       728         313</td> <td>3110         3236         3319         3469         1225           565         595         604         632         197           319         338         353         369         112           575         673         750         784         214           285         306         320         334         105           279         305         325         339         103           226         231         235         246         78           184         188         191         199         72           1661         1936         2328         2535         687           250         284         294         308         103           45         50         51         53         18           49         53         55         56         20           32         33         33         35         13           284         295         303         316         88           786         820         841         879         242           524         591         642         671         181           2129         2469         2753</td> <td>3110         3236         3319         3469         1225         1291           565         595         604         632         197         207           319         338         353         369         112         118           575         673         750         784         214         251           285         306         320         334         105         113           279         305         325         339         103         113           226         231         235         246         78         79           184         188         191         199         72         74           1661         1936         2328         2535         687         811           250         284         294         308         103         119           45         50         51         53         18         20           49         53         55         56         20         21           32         33         33         35         13         13           284         295         303         316         88         90           786<td>3110         3236         3319         3469         1225         1291         1367           565         595         604         632         197         207         217           319         338         353         369         112         118         127           575         673         750         784         214         251         289           285         306         320         334         105         113         122           279         305         325         339         103         113         124           226         231         235         246         78         79         84           184         188         191         199         72         74         78           1661         1936         2328         2535         687         811         1354           250         284         294         308         103         119         127           45         50         51         53         18         20         21           49         53         55         56         20         21         23           32         33         <td< td=""></td<></td></td>	3110       3236       3319       3469         565       595       604       632         319       338       353       369         575       673       750       784         285       306       320       334         279       305       325       339         226       231       235       246         184       188       191       199         1661       1936       2328       2535         250       284       294       308         45       50       51       53         49       53       55       56         32       33       33       35         284       295       303       316         786       820       841       879         524       591       642       671         2129       2469       2753       2878         1281       1575       1819       1901         1685       2239       2453       2662         392       454       497       520         669       685       696       728         313	3110         3236         3319         3469         1225           565         595         604         632         197           319         338         353         369         112           575         673         750         784         214           285         306         320         334         105           279         305         325         339         103           226         231         235         246         78           184         188         191         199         72           1661         1936         2328         2535         687           250         284         294         308         103           45         50         51         53         18           49         53         55         56         20           32         33         33         35         13           284         295         303         316         88           786         820         841         879         242           524         591         642         671         181           2129         2469         2753	3110         3236         3319         3469         1225         1291           565         595         604         632         197         207           319         338         353         369         112         118           575         673         750         784         214         251           285         306         320         334         105         113           279         305         325         339         103         113           226         231         235         246         78         79           184         188         191         199         72         74           1661         1936         2328         2535         687         811           250         284         294         308         103         119           45         50         51         53         18         20           49         53         55         56         20         21           32         33         33         35         13         13           284         295         303         316         88         90           786 <td>3110         3236         3319         3469         1225         1291         1367           565         595         604         632         197         207         217           319         338         353         369         112         118         127           575         673         750         784         214         251         289           285         306         320         334         105         113         122           279         305         325         339         103         113         124           226         231         235         246         78         79         84           184         188         191         199         72         74         78           1661         1936         2328         2535         687         811         1354           250         284         294         308         103         119         127           45         50         51         53         18         20         21           49         53         55         56         20         21         23           32         33         <td< td=""></td<></td>	3110         3236         3319         3469         1225         1291         1367           565         595         604         632         197         207         217           319         338         353         369         112         118         127           575         673         750         784         214         251         289           285         306         320         334         105         113         122           279         305         325         339         103         113         124           226         231         235         246         78         79         84           184         188         191         199         72         74         78           1661         1936         2328         2535         687         811         1354           250         284         294         308         103         119         127           45         50         51         53         18         20         21           49         53         55         56         20         21         23           32         33 <td< td=""></td<>

K214         183         189         194         203         68         71         75         81           K215         8         8         8         8         8         3	K213	915	1234	1511	1700	352	478	604	697
R216	K214	183	189	194	203	68	71	75	81
R217	K215	8	8	8	8	3	3	3	3
K218         1884         2195         2448         2559         624         722         834         892           K219         1486         1731         1930         2018         492         569         657         703           K220         1464         1708         1905         1991         504         587         677         725           K221         3368         3905         4277         4471         1161         1342         1521         1628           K222         2387         2720         2898         3029         812         921         1016         1087           K223         3125         3717         4035         4217         1062         1258         1414         1513           K224         2913         3304         3586         3748         964         1086         1221         1306           K225         1244         1317         1351         1412         462         491         521         558           K226         777         821         858         897         287         701         117         125           K228         1406         1437         1459         1526	K216	222	255	277	290	83	96	107	115
K219         1486         1731         1930         2018         492         569         657         703           K220         1464         1708         1905         1991         504         587         677         725           K221         3368         3905         4277         4471         1161         1342         1521         1628           K222         2387         2720         2898         3029         812         921         1016         1087           K223         3125         3717         4035         4217         1062         1258         1414         1513           K224         2991         3304         3586         3748         964         1086         1221         1558           K226         777         821         858         897         287         304         328         352           K226         777         821         858         897         287         304         328         352           K227         236         274         306         320         87         101         117         125           K228         1068         1407         1659         1526	K217	2363	2650	2718	3031	815	910	967	1103
K220         1464         1708         1905         1991         504         587         677         725           K221         3368         3905         4277         4471         1161         1342         1521         1628           K222         2387         2720         2898         3029         812         921         1016         1087           K223         3125         3717         4035         4217         1062         1258         1414         1513           K224         2913         3304         3586         3748         964         1086         1221         1306           K225         1244         1317         1351         1412         462         491         521         558           K226         777         821         858         897         287         304         328         352           K227         236         274         306         320         87         101         117         125           K228         1406         1437         1459         1526         492         501         527         564           K228         2688         2603         2801         723	K218	1884	2195	2448	2559	624	722	834	892
K221         3368         3905         4277         4471         1161         1342         1521         1628           K222         2387         2720         2898         3029         812         921         1016         1087           K223         3125         3717         4035         4217         1062         1258         1414         1513           K224         2913         3304         3586         3748         964         1086         1221         1306           K225         1244         1317         1351         1412         462         491         521         558           K226         777         821         858         897         287         304         328         352           K227         236         274         306         320         87         101         117         125           K228         1406         1437         1459         1526         492         501         527         564           K229         2068         2403         2801         723         838         967         1035           K230         858         961         1072         1120         300	K219	1486	1731	1930	2018	492	569	657	703
K222         2387         2720         2898         3029         812         921         1016         1087           K223         3125         3717         4035         4217         1062         1258         1414         1513           K224         2913         3304         3586         3748         964         1086         1221         1306           K226         777         821         858         897         287         304         328         352           K226         777         821         858         897         287         304         328         352           K227         236         274         306         320         87         101         117         125           K228         1406         1437         1459         1526         492         501         527         564           K229         2068         2403         2680         2801         723         838         967         1035           K231         2527         2937         3276         3424         995         1166         1343         1441           K232         918         1071         1322         1430         <	K220	1464	1708	1905	1991	504	587	677	725
K223         3125         3717         4035         4217         1062         1258         1414         1513           K224         2913         3304         3586         3748         964         1086         1221         1306           K225         1244         1317         1351         1412         462         491         521         558           K226         777         821         858         897         287         304         328         352           K227         236         274         306         320         87         101         117         125           K228         1406         1437         1459         1526         492         501         527         564           K229         2068         2403         2680         2801         723         838         967         1035           K230         858         961         1072         1120         300         335         387         414           K231         2527         2937         3276         3424         995         1166         1343         1441           K231         2527         2937         3276         3424	K221	3368	3905	4277	4471	1161	1342	1521	1628
K224         2913         3304         3586         3748         964         1086         1221         1306           K225         1244         1317         1351         1412         462         491         521         558           K226         777         821         858         897         287         304         328         352           K227         236         274         306         320         87         101         117         125           K228         1406         1437         1459         1526         492         501         527         564           K229         2086         2403         2680         1221         300         335         387         414           K230         858         961         1072         1120         300         335         387         414           K231         2527         2937         3276         3424         995         1166         1343         1441           K232         918         1071         1322         1430         330         385         734         842           K233         1139         1341         421         1485         410	K222	2387	2720	2898	3029	812	921	1016	1087
K225         1244         1317         1351         1412         462         491         521         558           K226         777         821         858         897         287         304         328         352           K227         236         274         306         320         87         101         117         125           K228         1406         1437         1459         1526         492         501         527         564           K229         2068         2403         2680         2801         723         838         967         1035           K230         858         961         1072         1120         300         335         387         414           K231         2527         2937         3276         3424         995         1166         1343         1441           K232         918         1071         1322         1430         330         385         734         842           K233         1139         1321         1421         1485         410         475         529         566           K234         778         882         957         1001         266 <td>K223</td> <td>3125</td> <td>3717</td> <td>4035</td> <td>4217</td> <td>1062</td> <td>1258</td> <td>1414</td> <td>1513</td>	K223	3125	3717	4035	4217	1062	1258	1414	1513
K226         777         821         858         897         287         304         328         352           K227         236         274         306         320         87         101         117         125           K228         1406         1437         1459         1526         492         501         527         564           K229         2688         2403         2680         2801         723         838         967         1035           K230         858         961         1072         1120         300         335         387         414           K231         2527         2937         3276         3424         995         1166         1343         1441           K231         1139         1321         1421         1485         410         475         529         566           K234         778         882         957         1001         266         301         338         362           K235         3448         4009         4471         4673         1214         1409         1626         1740           K236         358         413         4447         787         126 </td <td>K224</td> <td>2913</td> <td>3304</td> <td>3586</td> <td>3748</td> <td>964</td> <td>1086</td> <td>1221</td> <td>1306</td>	K224	2913	3304	3586	3748	964	1086	1221	1306
K227         236         274         306         320         87         101         117         125           K228         1406         1437         1459         1526         492         501         527         564           K229         2068         2403         2680         2801         723         838         967         1035           K230         858         961         1072         1120         300         335         387         414           K231         2527         2937         3276         3424         995         1166         1343         1441           K232         918         1071         1322         1430         330         385         734         842           K233         1139         1321         1421         1485         410         475         529         566           K234         778         882         957         1001         266         301         338         362           K235         348         409         4471         4673         1214         1409         1626         1740           K236         358         413         444         787         126 </td <td>K225</td> <td>1244</td> <td>1317</td> <td>1351</td> <td>1412</td> <td>462</td> <td>491</td> <td>521</td> <td>558</td>	K225	1244	1317	1351	1412	462	491	521	558
K228         1406         1437         1459         1526         492         501         527         564           K229         2688         2403         2680         2801         723         838         967         1035           K230         858         961         1072         1120         300         335         387         414           K231         2527         2937         3276         3424         995         1166         1343         1441           K232         918         1071         1322         1430         330         385         734         842           K233         1139         1321         1421         1485         410         475         529         566           K234         778         882         957         1001         266         301         338         362           K235         3448         4009         4471         4673         1214         1409         1626         1740           K236         358         413         444         787         1216         145         162         293           K237         1366         1598         1782         1863         <	K226	777	821	858	897	287	304	328	352
K229         2068         2403         2680         2801         723         838         967         1035           K230         858         961         1072         1120         300         335         387         414           K231         2527         2937         3276         3424         995         1166         1343         1441           K232         918         1071         1322         1430         330         385         734         842           K233         1139         1321         1421         1485         410         475         529         566           K234         778         882         957         1001         266         301         338         362           K235         3448         4009         4471         4673         1214         1409         1626         1740           K236         358         413         444         787         126         145         162         293           K237         1366         1598         1782         1863         471         549         634         678           K238         10         12         13         14         4	K227	236	274	306	320	87	101	117	125
K230         858         961         1072         1120         300         335         387         414           K231         2527         2937         3276         3424         995         1166         1343         1441           K232         918         1071         1322         1430         330         385         734         842           K233         1139         1321         1421         1485         410         475         529         566           K234         778         882         957         1001         266         301         338         362           K235         3448         4009         4471         4673         1214         1409         1626         1740           K236         358         413         444         787         126         145         162         293           K237         1366         1598         1782         1863         471         549         634         678           K238         10         12         13         14         4         4         4         5         5           K239         1218         1419         1582         1654	K228	1406	1437	1459	1526	492	501	527	564
K231         2527         2937         3276         3424         995         1166         1343         1441           K232         918         1071         1322         1430         330         385         734         842           K233         1139         1321         1421         1485         410         475         529         566           K234         778         882         957         1001         266         301         338         362           K235         3448         4009         4471         4673         1214         1409         1626         1740           K236         358         413         444         787         126         145         162         293           K237         1366         1598         1782         1863         471         549         634         678           K238         10         12         13         14         4         4         5         5           K239         1218         1419         1582         1654         424         493         569         609           K240         1004         1134         1231         1286         361	K229	2068	2403	2680	2801	723	838	967	1035
K232         918         1071         1322         1430         330         385         734         842           K233         1139         1321         1421         1485         410         475         529         566           K234         778         882         957         1001         266         301         338         362           K235         3448         4009         4471         4673         1214         1409         1626         1740           K236         358         413         444         787         126         145         162         293           K237         1366         1598         1782         1863         471         549         634         678           K238         10         12         13         14         4         4         4         5         5         5           K239         1218         1419         1582         1654         424         493         569         609           K240         1004         1134         1231         1286         361         408         458         490           K242         1016         1115         1188	K230	858	961	1072	1120	300	335	387	414
K233         1139         1321         1421         1485         410         475         529         566           K234         778         882         957         1001         266         301         338         362           K235         3448         4009         4471         4673         1214         1409         1626         1740           K236         358         413         444         787         126         145         162         293           K237         1366         1598         1782         1863         471         549         634         678           K238         10         12         13         14         4         4         5         5           K239         1218         1419         1582         1654         424         493         569         609           K240         1004         1134         1231         1286         361         408         458         490           K241         352         409         464         485         127         147         173         185           K242         1016         1115         1188         1241         379 <t< td=""><td>K231</td><td>2527</td><td>2937</td><td>3276</td><td>3424</td><td>995</td><td>1166</td><td>1343</td><td>1441</td></t<>	K231	2527	2937	3276	3424	995	1166	1343	1441
K234         778         882         957         1001         266         301         338         362           K235         3448         4009         4471         4673         1214         1409         1626         1740           K236         358         413         444         787         126         145         162         293           K237         1366         1598         1782         1863         471         549         634         678           K238         10         12         13         14         4         4         5         5           K239         1218         1419         1582         1654         424         493         569         609           K240         1004         1134         1231         1286         361         408         458         490           K241         352         409         464         485         127         147         173         185           K242         1016         1115         1188         1241         379         417         460         493         525           K243         512         191         1281         1339	K232	918	1071	1322	1430	330	385	734	842
K235         3448         4009         4471         4673         1214         1409         1626         1780           K236         358         413         444         787         126         145         162         293           K237         1366         1598         1782         1863         471         549         634         678           K238         10         12         13         14         4         4         5         5           K239         1218         1419         1582         1654         424         493         569         609           K240         1004         1134         1231         1286         361         408         458         490           K241         352         409         464         485         127         147         173         185           K242         1016         1115         1188         1241         379         417         460         493           K243         125         1191         1281         1339         415         440         490         525           K244         527         700         851         889         190	K233	1139	1321	1421	1485	410	475	529	566
K236       358       413       444       787       126       145       162       293         K237       1366       1598       1782       1863       471       549       634       678         K238       10       12       13       14       4       4       5       5         K239       1218       1419       1582       1654       424       493       569       609         K240       1004       1134       1231       1286       361       408       458       490         K241       352       409       464       485       127       147       173       185         K242       1016       1115       1188       1241       379       417       460       493         K243       1125       1191       1281       1339       415       440       490       525         K244       527       700       851       889       190       253       318       340         K245       131       134       138       144       47       48       51       55         K246       204       223       229       239       82 <td>K234</td> <td>778</td> <td>882</td> <td>957</td> <td>1001</td> <td>266</td> <td>301</td> <td>338</td> <td>362</td>	K234	778	882	957	1001	266	301	338	362
K237         1366         1598         1782         1863         471         549         634         678           K238         10         12         13         14         4         4         4         5         5           K239         1218         1419         1582         1654         424         493         569         609           K240         1004         1134         1231         1286         361         408         458         490           K241         352         409         464         485         127         147         173         185           K242         1016         1115         1188         1241         379         417         460         493           K243         1125         1191         1281         1339         415         440         490         525           K244         527         700         851         889         190         253         318         340           K245         131         134         138         144         47         48         51         55           K246         204         223         229         239         82	K235	3448	4009	4471	4673	1214	1409	1626	1740
K238         10         12         13         14         4         4         5         5           K239         1218         1419         1582         1654         424         493         569         609           K240         1004         1134         1231         1286         361         408         458         490           K241         352         409         464         485         127         147         173         185           K242         1016         1115         1188         1241         379         417         460         493           K243         1125         1191         1281         1339         415         440         490         525           K244         527         700         851         889         190         253         318         340           K245         131         134         138         144         47         48         51         55           K246         204         223         229         239         82         90         95         102           K247         1306         1334         1355         1417         522         539	K236	358	413	444	787	126	145	162	293
K239       1218       1419       1582       1654       424       493       569       609         K240       1004       1134       1231       1286       361       408       458       490         K241       352       409       464       485       127       147       173       185         K242       1016       1115       1188       1241       379       417       460       493         K243       1125       1191       1281       1339       415       440       490       525         K244       527       700       851       889       190       253       318       340         K245       131       134       138       144       47       48       51       55         K246       204       223       229       239       82       90       95       102         K247       1306       1334       1355       1417       522       539       565       607         K248       335       343       348       364       134       138       145       156	K237	1366	1598	1782	1863	471	549	634	678
K240       1004       1134       1231       1286       361       408       458       490         K241       352       409       464       485       127       147       173       185         K242       1016       1115       1188       1241       379       417       460       493         K243       1125       1191       1281       1339       415       440       490       525         K244       527       700       851       889       190       253       318       340         K245       131       134       138       144       47       48       51       55         K246       204       223       229       239       82       90       95       102         K247       1306       1334       1355       1417       522       539       565       607         K248       335       343       348       364       134       138       145       156	K238	10	12	13	14	4	4	5	5
K241       352       409       464       485       127       147       173       185         K242       1016       1115       1188       1241       379       417       460       493         K243       1125       1191       1281       1339       415       440       490       525         K244       527       700       851       889       190       253       318       340         K245       131       134       138       144       47       48       51       55         K246       204       223       229       239       82       90       95       102         K247       1306       1334       1355       1417       522       539       565       607         K248       335       343       348       364       134       138       145       156	K239	1218	1419	1582	1654	424	493	569	609
K242       1016       1115       1188       1241       379       417       460       493         K243       1125       1191       1281       1339       415       440       490       525         K244       527       700       851       889       190       253       318       340         K245       131       134       138       144       47       48       51       55         K246       204       223       229       239       82       90       95       102         K247       1306       1334       1355       1417       522       539       565       607         K248       335       343       348       364       134       138       145       156	K240	1004	1134	1231	1286	361	408	458	490
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K245       131       134       138       144       47       48       51       55         K246       204       223       229       239       82       90       95       102         K247       1306       1334       1355       1417       522       539       565       607         K248       335       343       348       364       134       138       145       156	K243	1125	1191	1281	1339	415	440	490	525
K246       204       223       229       239       82       90       95       102         K247       1306       1334       1355       1417       522       539       565       607         K248       335       343       348       364       134       138       145       156	K244	527	700	851	889	190	253	318	340
K247     1306     1334     1355     1417     522     539     565     607       K248     335     343     348     364     134     138     145     156	K245	131	134	138	144	47	48	51	55
K248 335 343 348 364 134 138 145 156	K246	204	223	229	239	82	90	95	102
	K247	1306	1334	1355	1417	522	539	565	607
K249 756 790 810 847 302 322 341 363	K248	335	343	348	364	134	138	145	156
	K249	756	790	810	847	302	322	341	363

K250	762	789	801	838	420	458	477	512
K251	158	161	164	171	59	60	63	68
K252	585	598	607	635	242	250	262	282
K253	1012	1061	1088	1138	418	444	470	505
K254	1155	1193	1212	1267	429	445	467	500
K255	277	283	288	301	111	116	122	129
K256	567	583	593	619	234	248	260	275
K257	1388	1452	1490	1557	574	617	653	691
K258	666	776	865	904	366	448	512	553
K259	324	378	421	625	134	158	182	277
K260	2191	2553	2847	2409	830	972	1120	972
K261	472	484	491	514	170	174	183	196
K262	2663	3104	3462	3618	918	1066	1231	1317
K263	518	536	550	575	209	219	231	248
K264	2210	2474	2685	2806	778	873	980	1045
K265	84	98	102	107	35	41	44	47
K266	3559	3770	3942	4198	1280	1356	1467	1600
SUM	162946	182888	197270	208757	60118	67662	76425	83045
	0	0	0	0				
DPC Controls	162949	182851	196565	207651	54896	67702	76365	83009
Δ	-3	37	52	-33		40	-60	-36



**Appendix G Performance Measures** 

#### PERFORMANCE MEASURES

The Federal legislation that funds road projects are reviewed every few years. The last two transportation authorizations, called MAP 21 (the Moving Ahead for Progress in the 21<sup>st</sup> Century Act) and FAST Act (Fixing America's Surface Transportation Act), included new requirements for DOTs and MPOs to assess the effectiveness of their programs with specified Performance Measures. The Performance Measures were created to offer common goals for:

- Safety
- Infrastructure Condition
- Congestion Reduction
- System Reliability
- Freight Movement and Economic Vitality
- Environmental Sustainability
- Reduced Project Delivery Times

To meet these goals, five safety, seven infrastructure, one system performance, one freight movement and three congestion reduction measures were developed by the US Department of Transportation to monitor performance and assess the effects of projects identified in the Dover/Kent County Metropolitan Planning Organization (the MPO) Transportation Improvement Program (TIP). During 2018, the MPO has been working with WILMAPCO and DelDOT to identify the current status of performance for the measures and develop targets for a future transportation system as well as project areas. The MPO has the choice to either develop its performance targets or accept and work with the targets established by DelDOT.

To date, the MPO has adopted the Safety Performance Measures (SPM) targets calculated on a five year rolling average created by DelDOT:

SPM1: Number of Fatalities	120.2
SPM2: Rate of Fatalities (per 100 million vehicle miles traveled)	1.208
SPM3: Number of Serious Injuries	578.6
SPM4: Rate of Serious Injuries (per 100 million vehicle miles traveled)	5.882
SPM5: Combined number of Non-Motorized Fatalities and Serious Injuries	94.2

Calculation of the annual figures for each criteria and developing the target for Safety is a calculation based on the recent past. Other performance measures required the DOT/MPO to choose a target using some basic guidance. The second set of Performance Measures that DelDOT and both

MPOs worked on were The PM2 (Infrastructure) and PM3 (System Performance). DelDOT submitted their targets by May 20<sup>th</sup> and the MPO will choose to accept them or develop our own by November 20<sup>th</sup>. Many of the PM3 measurements and targets concerned traffic on interstates as defined by US DOT, and don't apply t the MPO area. They were:

#### **PM2** Pavement and Bridge Condition Measures

Pavement Condition: Statewide-Good Condition	85%
Bridges Statewide; Good Condition	95%
Bridges Kent County; Good Condition	95%

(The rating system used by DelDOT to assess pavement and bridge conditions identified 'Good"," Fair", and "Poor" conditions. For the purposes of matching the FHWA ratings, Good and Fair are considered "Good")

#### PM3 Performance of NHS, Freight and CMAQ Measures

Truck Travel Time Reliability: on the interstates	Doesn't apply
Travel Time Reliability: Interstate	Doesn't apply
Travel Time Reliability: NHS Kent (actual 97.9%)	Applies 75%
Total Peak Hour of Excessive Delay:	Doesn't apply
CMAQ-Percent Non-single occupancy vehicles: >1MM Philadelphia PA-NJ-DE-MD Urbanized Area	Doesn't apply
CMAQ-Peak Hour of Excessive Delay: 1MM people Philadelphia PA-NJ-DE-MD Urbanized Area	Doesn't apply
CMAQ-Emissions Reductions: 1MM people Philadelphia PA-NJ-DE-MD Urbanized Area	Doesn't apply

The MPO adopted the Delaware Transit Authority (DTC) Transit Asset Management Plan at their March 6, 2019 Council meeting.

The MPO to this point has been tasked with identifying targets for the Performance Measures and working them into project selection matrices. The future will require assessing progress of projects and programs in meeting these targets.

# **APPENDIX H Air Quality Conformity Support Documents**

#### Air Quality Conformity for Kent County, Delaware

#### **Introduction:**

Until 2/16/2018, the Dover/Kent County MPO area had been in transportation conformity. The 2016 TIP included the following:

"Kent County is part of the Philadelphia-Wilmington-Trenton non-attainment area, though it was not cited as a non-attainment county. As the federally-designated Metropolitan Planning Organization for Kent County, Delaware is in attainment, the Dover/Kent County MPO, is not required through federal regulations to show that the FY 2016-2019 TIP complied with the requirements of the 1990 Clean Air Act and subsequent amendments (CAA)."

The determination was based upon guidance offered by FHWA that the MPO region met the 2008 Air Quality standards for ozone. In a challenge to the standard by the ongoing law suit know as South Coast Air Quality Management District v EPA, the EPA changed the guidance. After the appeal was heard on 9/14/2017, a decision released on 2/16/2018 required the MPO to meet the original 1997 ozone standard as well as the 2008 standard. The only standards that Kent County can't meet are the Ozone (1-hour standard) which is noted as being "...revoked effective June 15, 2005 for all areas of Delaware," and the 1997 8-hour Ozone (Primary and Secondary). The MPO was again in non-compliance for ozone and subject to air quality policies of a TIP. Interim guidance was distributed in a memorandum on 4/23/2018 titled "Interim Guidance on Conformity Requirements for 1997 Ozone NAAQS" based on the 2/6/2018 US Court of Appeals decision. In this guidance from FHWA/FTA, "...two groups of ozone areas are described in the decision." The Dover/Kent County MPO falls under the second circumstance described as "Areas that were designated as nonattainment for the 1997 ozone NAAQS at the time of revocation and are designated as attainment for the 2008 Ozone NAAQS. These areas have not been required to make transportation conformity determinations for any ozone NAAQS since the 1997 ozone NAAQS were revoked in April 2015 by EPA's Rule." The impact of the change was described in the "Interim Guidance on Conformity Requirements for the 1997 Ozone NAAQS (National Ambient Air Quality Standards)" dated April 23, 2018. The guidance on page 2 of the memo included the following: "Within the 82 identified areas, NEPA approvals for FHWA/FTA projects (40 CFR 93.101) may not proceed unless the existing Metropolitan Plan and TIP include the project." Both the MTP and the 2019-2022 TIP included the identified projects.

#### **Background on 8-Hour Ozone**

Ozone is an odorless, colorless, gas and is created by a reaction between oxides of nitrogen (NOx) and volatile organic compounds (VOC) in the presence of sunlight. While ozone in the stratosphere forms a protective layer, shielding the earth from the sun's harmful rays, ground level ozone is a key contributor to smog. Motor vehicle exhaust, industrial emissions, gasoline vapors, chemical solvents, and natural sources all contribute to NOx and VOC emissions. Since ozone is formed in the presence of heat and sunlight, it is considered a summertime pollutant.

The health effects of ozone vary. Ozone can irritate lung airways and cause inflammation similar to sunburn. Other symptoms include wheezing, coughing, pain when taking a deep breath and breathing difficulties during exercise or outdoor activities. People with respiratory problems, children and the elderly are most vulnerable, but even healthy people that are active outdoors can be affected when ozone levels are high. Even at very low levels, ground-level ozone triggers a variety of health problems including aggravated asthma, reduced lung capacity, and increased susceptibility to respiratory illnesses such as pneumonia and bronchitis. In addition to adverse health effects, ground-level ozone also interferes

with the ability of plants to produce and store food, which makes them more susceptible to disease, insects, other pollutants, and harsh weather. Furthermore, ozone damages the leaves of trees and other plants, ruining the appearance of cities, national parks, and recreation areas. In 1997, the USEPA issued the 8-hour ozone National Ambient Air Quality Standards (NAAQS) at a concentration of 0.080 ppm. to better protect public health. Areas that have failed to meet the standards outlined above have been designated as non-attainment areas and, as a result, are subject to the requirements of transportation conformity. Transportation conformity requires non-attainment and maintenance areas to demonstrate that all future transportation projects will not hinder the area from reaching and attaining its air quality improvement goals. In particular, projects may not:

- Cause or contribute to new air quality violations
- Worsen existing violations
- Delay timely attainment of the relevant NAAQS

USEPA originally designated areas as non-attainment for the 8-hour ozone standard on April 15, 2004. Following modifications, the designations became final on June 15, 2005. USEPA designated the PA-NJ-MD-DE area as moderate non-attainment for the 8-hour ozone standard. The NAAQS of 2008 created new ozone standards and eliminated the requirement to comply with the 1997 ozone standard.

#### Status of the 2040 Metropolitan Transportation Plan (MTP) and FY2019-2022 Transportation Improvement Program (TIP):

As the Metropolitan Planning Organization (MPO) for Kent County, Delaware, Dover/Kent County MPO is charged with authoring a long-range transportation plan with at least a 20-year planning horizon. The Metropolitan Transportation Plan (MTP) presents recommendations for enhanced transportation efficiency and functionality, including the construction of new facilities, improved connectivity to multiple travel modes, and the enhancement of existing highway, transit, and bicycle/pedestrian facilities. Transportation projects that address challenges faced by the region are identified in this plan and placed on the four-year TIP that corresponds to that project's development timetable. The FY 2019–2022 TIP and the 2040 MTP Update of 2017 were created by the Dover/Kent County MPO staff and member agencies. The 2040 MTP was adopted by the Dover/Kent County MPO Council on January 4, 2017 and the FY 2019-2022 TIP was originally adopted on April 19, 2018.

#### **Interagency Consultation Process**

As required by the federal transportation conformity rule (40 CFR 93.105) the transportation conformity process includes a significant level of cooperative interaction among federal state and local agencies. Interagency consultation requires coordination with local county representatives, the MPO and representatives from state, city and federal agencies which include but are not limited to:

- City of Dover
- Dover/Kent County MPO
- WILMAPCO
- Delaware Transit Corporation
- Delaware Department of Transportation
- Delaware Department of Natural Resources and Environmental Control
- FHWA

- USEPA
- FTA
- County Planning Departments

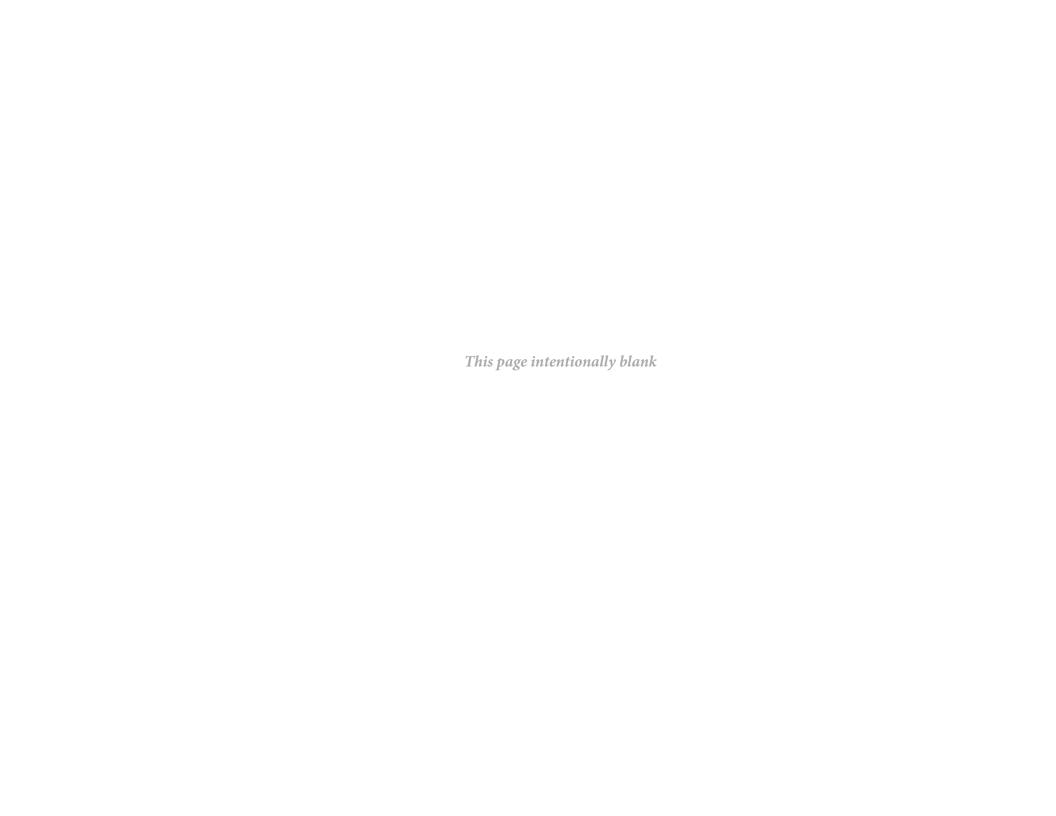
The WILMAPCO Air Quality Subcommittee has acted as the technical advisors to questions of exemption and regional significance of projects in our MTP/TIP. The Subcommittee includes representatives from EPA, FHWA, DNREC, DelDOT, WILMAPCO and the Dover/Kent County MPO.

#### The 2015-2018 TIP stated:

"Two new projects were added including the Camden Bypass and the US13 Widening project. The Camden Bypass is a multi-component project that was separated into 5 components for scoring purposes. After review by the de-facto statewide conformity working group, it was determined that no non-exempt, regionally significant projects have been added." (2015-2018 TIP Doc V2 DRAFT 1-27-2015, page 10)

FHWA requested an assessment of the air quality impacts of the 2019-2022 TIP. The MPO identified projects that might have been considered once again to be non-exempt and regionally significant. The same projects were reviewed by the WILMAPCO Air Quality Subcommittee on May 22, 2018. These two projects and the Scarborough C&D Roads were considered non-exempt and regionally significant.

The latest guidance offered by FHWA is that because these projects were included in the MTP and TIP before the date of the memo, 4/23/2018, NEPA approvals, and thus the projects, may proceed. The original FY 2019-2022 TIP was approved at a joint meeting of the TAC, PAC, and Council on 4/19/2018. The FY2020-2023 TIP requires a Conformity Analysis. The Conformity Analysis has been completed and is included with this Appendix by reference.



## **APPENDIX H**

**Part B: Support Documents** 

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**2019 Conformity Analysis** 

not attached