

DELAWARE RAIL-to-TRAIL & RAIL-with-TRAIL (RTT/RWT)
FACILITY MASTER PLAN
PRELIMINARY STRUCTURAL EVALUATION
TOTAL CONSTRUCTION/ REHABILITATION COST ESTIMATES
JUNE 2006

STRUCTURE NUMBER	LOCATION	COST
1	BRANDYWINE INDUSTRIAL TRACK AUGUSTINE ROAD OVERPASS (State Owned)	\$3,600
2	BRANDYWINE INDUSTRIAL TRACK STONE RAILROAD BRIDGE OVERPASS (CSX Owned)	\$3,600
3	BRANDYWINE INDUSTRIAL TRACK I-95 BRIDGE OVERPASS (State Owned)	\$4,800
4	BRANDYWINE INDUSTRIAL TRACK WASHINGTON STREET BRIDGE OVERPASS (State Owned)	\$10,800
5 (RTT)	ELLENDALE - MILTON INDUSTRIAL TRACK RAILROAD BRIDGE OVER PEMBERTON BRANCH (State Owned)	\$17,500
5a (RWT)	ELLENDALE - MILTON INDUSTRIAL TRACK NEW PED/BIKE BRIDGE ADJACENT TO RAILROAD BRIDGE	\$56,000
6 (RTT)	ELLENDALE - MILTON INDUSTRIAL TRACK RAILROAD BRIDGE OVER INGRAM BRANCH (State Owned)	\$24,375
6a (RWT)	ELLENDALE - MILTON INDUSTRIAL TRACK NEW PED/BIKE BRIDGE ADJACENT TO RAILROAD BRIDGE	\$76,000
7	CLAYTON - EASTON LINE NEW PED/BIKE BRIDGE OVER HARRINGTON BEAVERDAM DITCH (MTA Owned)	\$200,500
8	KENTMERE TRACK RAILROAD TUNNEL	\$270,025
9	KENTMERE TRACK RAILROAD BRIDGE OVER RISING SUN LANE	\$61,200
10	KENTMERE TRACK NEW PED/BIKE BRIDGE OVER ROCKFORD ROAD	\$320,000
TOTAL CONSTRUCTION/ REHABILITATION COSTS =		\$1,048,400

**STRUCTURE #1 BRANDYWINE INDUSTRIAL TRACK
AUGUSTINE ROAD OVERPASS
PRELIMINARY ENGINEER'S ESTIMATE
REHABILITATION**

JUNE 2006

OVERHEAD STRUCTURE

BRIDGE AREA*	=	720	SF		
COMPREHENSIVE BRIDGE INSPECTION/ REHABILITATION	=	\$5/SF	x	720 SF	= \$3,600.00
				TOTAL	= <u>\$3,600.00</u>

* = APPROXIMATE AREA OF PROPOSED TRAIL UNDER BRIDGE

**STRUCTURE #2 BRANDYWINE INDUSTRIAL TRACK
OVERHEAD STONE CSX RAILROAD BRIDGE
PRELIMINARY ENGINEER'S ESTIMATE
REHABILITATION**

JUNE 2006

OVERHEAD STRUCTURE

BRIDGE AREA*	=	720	SF		
COMPREHENSIVE BRIDGE INSPECTION/ REHABILITATION	=	\$5/SF	x	720 SF	= \$3,600.00
				TOTAL	= <u>\$3,600.00</u>

* = APPROXIMATE AREA OF PROPOSED TRAIL UNDER
BRIDGE

**STRUCTURE #3 BRANDYWINE INDUSTRIAL TRACK
I-95 OVERPASS
PRELIMINARY ENGINEER'S ESTIMATE
REHABILITATION**

JUNE 2006

OVERHEAD STRUCTURE

BRIDGE AREA *	=	960	SF		
COMPREHENSIVE BRIDGE INSPECTION/ REHABILITATION	=	\$5/SF	x	960 SF	= \$4,800.00
				TOTAL	= <u>\$4,800.00</u>

* = APPROXIMATE AREA OF PROPOSED TRAIL UNDER BRIDGE

**STRUCTURE #4 BRANDYWINE INDUSTRIAL TRACK
WASHINGTON STREET BRIDGE OVERPASS
PRELIMINARY ENGINEER'S ESTIMATE
REHABILITATION**

JUNE 2006

OVERHEAD STRUCTURE

BRIDGE AREA *	=	720	SF		
COMPREHENSIVE BRIDGE INSPECTION/ REHABILITATION	=	\$15/SF	x	720 SF	= <u>\$10,800.00</u>
				TOTAL	= <u><u>\$10,800.00</u></u>

* = APPROXIMATE AREA OF PROPOSED TRAIL UNDER
BRIDGE

**STRUCTURE #5 ELLENDALE - MILTON INDUSTRIAL TRACK
OVER PEMBERTON BRANCH
PRELIMINARY ENGINEER'S ESTIMATE
RTT REHABILITATION**

JUNE 2006

RTT TRAIL STRUCTURE

BRIDGE AREA	=	700	SF		
COMPREHENSIVE BRIDGE INSPECTION/ REHABILITATION	=	\$25/SF	x	700 SF	= <u>\$17,500.00</u>
				TOTAL	= <u>\$17,500.00</u>

**STRUCTURE #5a ELLENDALE - MILTON INDUSTRIAL TRACK
OVER PEMBERTON BRANCH
PRELIMINARY ENGINEER'S ESTIMATE
RWT NEW CONSTRUCTION**

JUNE 2006

RWT TRAIL STRUCTURE

BRIDGE AREA	=	560	SF		
PRELIMINARY CONSTRUCTION COST OF PROPOSED STRUCTURE	=	\$100/SF	x	560 SF	= <u>\$56,000.00</u>

TOTAL = \$56,000.00

**STRUCTURE #6 ELLENDALE - MILTON INDUSTRIAL TRACK
OVER INGRAM BRANCH
PRELIMINARY ENGINEER'S ESTIMATE
RTT REHABILITATION**

JUNE 2006

RTT TRAIL STRUCTURE

BRIDGE AREA	=	975	SF		
COMPREHENSIVE BRIDGE INSPECTION/ REHABILITATION	=	\$25/SF	x	975 SF	= <u>\$24,375.00</u>
				TOTAL	= <u>\$24,375.00</u>

**STRUCTURE #6a ELLENDALE - MILTON INDUSTRIAL TRACK
OVER INGRAM BRANCH
PRELIMINARY ENGINEER'S ESTIMATE
RWT NEW CONSTRUCTION**

JUNE 2006

RWT TRAIL STRUCTURE

BRIDGE AREA	=	760	SF		
PRELIMINARY CONSTRUCTION COST OF PROPOSED STRUCTURE	=	\$100/SF	x	760 SF	= <u>\$76,000.00</u>
				TOTAL	= <u><u>\$76,000.00</u></u>

**STRUCTURE #7 CLAYTON-EASTON LINE
OVER HARRINGTON BEAVERDAM DITCH
PRELIMINARY ENGINEER'S ESTIMATE
TOTAL REPLACEMENT**

JUNE 2006

REMOVAL OF EXISTING
STRUCTURE

BRIDGE AREA = 500 SF
EXISTING

REMOVAL OF = \$40/SF x 500 SF = \$20,000.00
EXISTING
STRUCTURE

CONSTRUCTION OF PROPOSED
STRUCTURE

BRIDGE AREA = 1,805 SF

PRELIMINARY = \$100/SF x 1,805 SF = \$180,500.00
CONSTRUCTION
COST OF
PROPOSED
STRUCTURE

TOTAL = \$200,500.00

**STRUCTURE #8 KENTMERE TRACK
RAILROAD TUNNEL WEST OF RISING SUN LANE
PRELIMINARY ENGINEER'S ESTIMATE
REHABILITATION**

JUNE 2006

OVERHEAD STRUCTURE

BRIDGE AREA *	=	7,715	SF		
COMPREHENSIVE TUNNEL INSPECTION/ REHABILITATION	=	\$35/SF	x	7,715 SF	= \$270,025.00
				TOTAL	= <u>\$270,025.00</u>

**STRUCTURE #9 KENTMERE TRACK
RAILROAD BRIDGE OVER RISING SUN LANE
PRELIMINARY ENGINEER'S ESTIMATE
REHABILITATION**

JUNE 2006

TRAIL STRUCTURE

BRIDGE AREA = 900 SF

COMPREHENSIVE BRIDGE INSPECTION/REHABILITATION = \$85/SF x 900 SF = \$61,200.00

TOTAL = \$61,200.00

**STRUCTURE #10 KENTMERE TRACK
REMOVED RAILROAD BRIDGE OVER ROCKFORD ROAD
PRELIMINARY ENGINEER'S ESTIMATE
REHABILITATION/ NEW CONSTRUCTION**

JUNE 2006

TRAIL STRUCTURE

ABUTMENT AREA * = 800 SF

= \$25/SF x 800 SF = \$20,000.00

COMPREHENSIVE ABUTMENT
INSPECTION AND REHABILITATION

CONSTRUCTION OF PROPOSED STRUCTURE

BRIDGE AREA ** = 3,000 SF

= \$100/SF x 3,000 SF = \$300,000.00

PRELIMINARY CONSTRUCTION
COST OF PROPOSED STRUCTURE

TOTAL = **\$320,000.00**

* REPAIR OF ABUTMENTS (20' X 20')
EACH

** CONSTRUCTION OF NEW BRIDGE (15'
X 200')