САРІГАL		TION PROJECT COST ESTIMATE urrent Dollars)	Part III of V
Contract No.	Pro	ject Title: Rt 10 Pathway, Old North Rd to Old Ca	
	PART II	I - REAL ESTATE	
A. REAL PROPERTY	\$15,000	C. ASBESTOS PROGRAM	\$0
1. Total acquisitions		1. Testing	
2. Partial acquisitions		2. Abatement	
3. Permanent easements	\$10,000	D. DEMOLITION	
4. Temporary easements	\$5,000	E. APPRAISAL FEES	
5. Wetland mitigation		F. STAFF	\$5,000
Other (specify) 6.		G. SETTLEMENT	
7		H. REAL ESTATE ENG.	\$0
B. RELOCATION	\$0	1. Consultant survey	
1. Residential		2. As acquired plans	
2. Business		I. CONDEMNATION	
Other (specify) 3.		J. OTHER (specify)	\$0
4		1	
		2	
TOTAL COSTS FOR PART III (A	thru J) ROUNDED		\$20,000
CONTINGENCY COSTS (normally 5% for large projects and 1	0% for small projects	s - to be approved by section head) $\frac{0\%}{(\% \text{ used})}$	\$0_
TOTAL REAL ESTATE COSTS (also total for Construction Project Es	stimate form line 7c)		\$20,000
Estimator: Century Engineering, I	nc. (LCH)	Date: <u>06/03/15</u>	

		N PROJECT COST ESTIMATE ent Dollars)	Part IV-A of V
Contract No.	Proj	ect Title Rt 10 Pathway, Old North Rd to Old C	Camden Road - P1
	PART IV -CO	NSTRUCTION	
A. ROADWAY/APPROACH CONSTRUCTION	\$791,000	B. STRUCTURE CONSTRUCTION	\$0
Grading     a. Excavation     (includes SWM pond)		1. New Bridge	
b. Borrow		a. Type	
2. Drainage		b. Size	
Pavement     a. Surface		c. \$/s.f.	
		2. Old Structure Rem.	
b. Base		a. Type	
c. Subbase		b. Size	
4. Erosion/Sed. Cont.		c. \$/c.y.	
5. Miscellaneous a. Curb/Gutter		3. Retaining Wall	
b. Sidewalk		a. Type	
c. Guardrail		b. Size	
d. C.P.M. Schedule		c. \$/c.y.	
e. Clear/Grubb		4. Box Culvert	
f. Field Office		a. Type	
Other (specify) g. Total Project Construction	\$791,000	b. Size	
h <u>.</u>		c. \$/s.f.	
i		C. LANDSCAPING	\$0
j		1. Beautification	
k		2. Noise Mitigation	
l		3. Visual Mitigation	
m		4. Tree Mitigation	
(refer to Capital Improvement Project form, Page 1987)	art IV - Continued)	D. MAINTENANCE OF TRAFFIC	

CAPITAL TR		N PROJECT COST ESTIMENT Dollars)	ÍATE	
			Pa	art IV-B of V
Contract No.		ect Title Rt 10 Pathway, Old North	Rd to Old Camd	len Road - P1
	PART IV -CONSTI	RUCTION (CONTINUED)		
E. PROJECT TRAFFIC ITEMS	\$0	P. REIMBURSABLE U		\$0
<ol> <li>Signing Structures</li> <li>a. Overhead Bridges</li> </ol>		(Enter on PN: 1. Water	R funding line 7)	
b. Cantilever Supports		2. Sanitary Sewer	_	
2. Roadway Lighting		3. Electric	_	
3. Pavement Markings Other (specify)		4. Telephone	_	
4		5. Gas	_	
F. WETLAND MITIGATION		6. CATV	_	
G. UTILITY RELOC. IN CONTRACT	Γ \$0	Other (specify) 7.		
1. Water		8.		
2 Sanitary Sanar		Utilities		
<ul><li>2. Sanitary Sewer</li><li>Other (specify)</li><li>3</li></ul>		Estimator:	Date:	
<u></u>		Q. TRAFFIC SECTION		\$30,000
H. SUBTOTAL (A thru G) ROUNDED	\$791,000	· ·	R funding line 6)	
I. MISC. ITEMS	\$79,100	1. Signing	_	\$5,000
(15% of H for large projects and 20% for	small)	2. Signals	_	\$25,000
(At SF submission use 10% and 5%) 10%		3. Detour Signing		
(% used)			_	
J. CONTRACTOR'S CONST. ENG. (normally 5% of H) 5%	\$39,550	4. DelTrac Other (specify)	_	
(% used)		5.		
	***			
K. INITIAL EXPENSE (normally 5% of H) 5%	\$39,550	Traffic Estimator:	Date:	
(% used)		Estillator.	Date.	
L. CONSTRUCTION CONTINGENCY	Y\$79,100			
(normally 10% of H) 10%				
(% used)  M. TOTAL CONSTRUCTION COSTS (Enter on PNR funding line 5)	S (H thru L)		_	\$1,028,300
N. CONSTRUCTION ENGINEERING (Enter on PNR funding line 4)	G (normally 15% of co	nstruction costs)	15%	\$154,245
O. TOTAL CONSTRUCTION COSTS (use this total + Q + P for Construction Pr		0 0,	<u> </u>	\$1,182,545
Estimator: Century Engineering, Inc.		Date: <u>6/3/2015</u>		

CAPITAL TRANSP		OJECT COST ESTIMATE	
	(Current Dollars)		Part V of V
Contract No.	Project Title:	Rt 10 Pathway, Old North Rd to Old	d Camden Road - P1
	SUMMARY		
PART I - LOCATION AND ENVIRONMENT (Part I to be included only for class "I" and "III" processes to the control of the class of the control of the class of the control of t			\$0
PART II - PRELIMINARY ENGINEERING			\$165,000
PART III - REAL ESTATE			\$20,000
PART IV - CONSTRUCTION			\$1,212,545
TOTAL ESTIMATED PROJECT COSTS (also total for Construction Project Estimate from	line 7c)		\$1,397,545
Project Manager		Date:	
REVIEWED & CONCURRED IN:			
Section Head		Date:	
NOTE: Concurring section heads are to forward one estimate copy each to the Assistant Director of Estimate Engineer.			

	Conceptual Cost Estimate - July 3	2015			
ITEM#	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL
201000	CLEARING AND GRUBBING	LS	\$7,500.00	1	\$7,500.0
202000	EXCAVATION AND EMBANKMENT	CY	\$18.00	1,745	\$31,410.3
209002	BORROW, TYPE B	CY	\$30.00	60	\$1,800.0
209006	BORROW, TYPE F REMOVAL OF STRUCTURES AND OBSTRUCTIONS	CY	\$24.00 \$5,000.00	490	\$11,760.0 \$5,000.0
212000	UNDERCUT EXCAVATION	LS CY	\$5,000.00	1 100	\$5,000.0
302007	GRADED AGGREGATE BASE COURSE, TYPE B	CY	\$50.00	525	\$26,259.9
401821	SUPERPAVE BIT. CONCRETE, TYPE C, 160 GYRATIONS, PG64-22, PATCHING	TON	\$85.00	131	\$11,135.0
401822	SUPERPAVE BIT. CONCRETE, TYPE 6, 160 GYRATIONS, PG64-22, PATCHING	TON	\$125.00	80	\$10,000.0
401823	SUPERPAVE BIT. CONCRETE BASE COURSE, 160 GYRATIONS, 64-22, PATCHING	TON	\$125.00	79	\$9,875.0
602615	MODULAR BLOCK RETAINING WALL	SF	\$50.00	600	\$30,000.0
612034	REINFORCED CONCRETE PIPE, 36", CLASS IV	LF	\$75.00	1,194	\$89,550.0
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	LF	\$40.00	2,073	\$82,920.0
705002	P.C.C. SIDEWALK, 6"	SF	\$7.00	34,004	\$238,028.0
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	SF	\$30.00	370	\$11,100.0
708053	DRAINAGE INLET, 48" X 48"	EACH	\$2,500.00	10	\$25,000.00
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	EACH	\$800.00	1	\$800.00
710507	ADJUST AND REPAIR EXISTING SANITARY CLEANOUTS	EACH	\$250.00	5	\$1,250.00
716000	CONVERTING EXISTING DRAINAGE INLET TO JUNCTION BOX	EACH	\$1,000.00	1	\$1,000.00
727004	CHAIN-LINK FENCE, 6' HIGH	LF	\$20.00	350	\$7,000.00
737523	PLANTINGS	LS	\$5,000.00	1	\$5,000.00
743000	MAINTENANCE OF TRAFFIC	LS	\$18,000.00	1	\$18,000.00
743003	ARROWPANELS, TYPE C	EADY	\$30.00	200	\$6,000.00
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLEMESSAGE SIGN	EADY	\$75.00	30	\$2,250.00
743006	PLASTIC DRUMS	EADY	\$0.50	3,520	\$1,760.00
743007	TRAFFIC OFFICERS	LF	\$85.00	40	\$3,400.00
743009	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	LF	\$100.00	200	\$20,000.00
743023	TEMPORARY BARRICADES, TYPE III	LFDY	\$3.00	1,120	\$3,360.00
743024	TEMPORARY WARNING SIGNS AND PLAQUES	EADY	\$2.60	1,040	\$2,704.00
743057	FLAGGER, KENT COUNTY, FEDERAL	HOUR	\$47.20	640	\$30,208.00
743066	FLAGGER, KENT COUNTY, FEDERAL, OVERTIME	HOUR	\$68.44	80	\$5,475.20
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	SF	\$8.00	570	\$4,560.00
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$3.50	8,456	\$29,596.00
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLESIGN POST	EACH	\$75.00	8	\$600.00
750000	ADJUST WATER VALVE BOXES	EACH	\$150.00	5	\$750.00
751000	ADJUST FIRE HYDRANTS	EACH	\$1,200.00	2	\$2,400.00
758000 760000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.  PAVEMENT - MILLING, HOT-MIX	SY	\$15.00 \$3.00	1,720 834	\$25,800.00 \$2,502.00
762001	SAW CUTTING, HOT MIX	LF	\$5.00	2,184	\$2,502.00
762001	SAW CUTTING, FIOT MIX SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$6.00	45	\$10,920.00
905001	SILT FENCE	LF	\$3.00	2114	\$6,342.00
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	20	\$3,000.00
908004	TOPSOIL, 6" DEPTH	SY	\$7.00	300	\$2,100.00
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	350	\$350.00
300017	Subtotal	- 01	Ψ1.00	555	\$791,000.00
	lanatara.		1	<u> </u>	ψ. 51,000.00
	CONTINGENCY FOR MISC. ITEMS	10%			\$79,100.00
763000	INITIAL EXPENSE	5%	<del>                                     </del>	1	\$39,550.00
763501	CONSTRUCTION ENGINEERING	5%	<del>                                     </del>	1	\$39,550.00
. 30001	CONSTRUCTION CONTINGENCY	10%	1	<u> </u>	\$79,100.00
		1.070	1	†	Ţ. c, . co.o.
		1	1	Subtotal	\$1,028,300.0
		1	1		. ,
	CONSTRUCTION ENGINEERING - 15% (INSPECTION, CCR, CE, ETC)				\$154,245.0
	TOTAL BASE CONSTRUCTION COST				\$1,182,545.0
	DEAL FOTATE GOOTS	-	1	<b> </b>	#00 ccc
	REAL ESTATE COSTS	-	1	<b> </b>	\$20,000.0
	TRAFFIC SECTION ITEMS	-	1	<b> </b>	\$30,000.0
	PRELIMINARY ENGINEERING	-	1	<b> </b>	\$165,000.0
	TOTAL ESTIMATED PROJECT COST				\$1,397,545.0

CAPITAL I	TRANSPORTATION P	ROJECT CO	ST ESTIMATE	
1. NAME OF PROJECT Rt 10 Path,	Gateway S. Shopping Center Subdivision or Road Name	to US13 - P2	_	Kent County
2. LIMITS Street Name or Road Number	From		То	Length
SR 10 (K356)	Gateway S. Shopping	Center S. State	e St. (K027)	6,300'
3. ESTIMATE REQUESTED BY:	Jeff Niezgoda	for (check one)	Project initiation	
	Name	Ior (check one)	Estimate only	Section or Legis. Dist.
4. DESCRIPTION OF IMPROVEMEN Construct a 10' wide multi-use path with				
A PROJECT DI CLD	v	TOWY.	The state of the s	
4. PROJECT IN C.I.P.  5. TYPICAL SECTION	Yes No 🗸	If "Yes	", indicate year F.Y	
3" Superpave Bituminous Concrete, Ty	pe C + 8" GABC Type B			
6. STATE MAINTAINED 🗸	CITY MAINTAINED	PRIVATE 🗌	OTHER (specify	)
7. COST ESTIMATE:		from C.I.P. estimate form	Estimate prepared by:	Date:
a. Location and Environmental Studies (Part I to be included only for class "I"	and "III" projects)	Part I	Century Engineering	06/03/15
b. Preliminary Engineering	\$380,000	Part II	Century Engineering	06/03/15
c. Real Estate	\$100,000	Part III	Century Engineering	06/03/15
d. Construction *	\$3,652,835	Part IV	Century Engineering	06/03/15
e. TOTAL ESTIMATED PROJECT CO * Includes Utilities, Traffic, and C.E. APPROVED	OST \$4,132,835	-		
Valid thru Date	Assistant Director, M&O/T	ransportation Sol	utions/Planning	
Date	Assistant Director, MecO/1	ransportation 501	utions/1 lamming	Date

	CAPITAL TRANSPOR	RTATION PROJ (Current Dollars		ATE	
		(Current Donars			Part I of V
Contract No.		Project Title: Rt	10 Path, Gateway S. Shop	ping Center to	US13 - P2
		N & ENVIRONME uded only for class "I	NTAL STUDIES (N/A) " & "III" projects)		
A. ENGINEERIN		E.	HISTORIC		\$0
(Includes NEP <b>B. ARCHAEOLO</b>		\$0	1. Phase 1 (study)		
1. Phase I (stud	y)		2. Phase 2 (study)		
2. Phase 2 (stud	dy)		3. Mitigation (by loc./env	·.)	
3. Phase 3 (mit	tigation)		4. Mitigation (by design)		yes no no
C. WETLANDS		<u>\$0</u> F.	NOISE		\$0
1. Delineation	(study)		1. Studies		
2. Permit prepa	aration		2. Mitigation (by design)		yes 🗌 no 🔲
3. Mitigation (	design)	G.	OTHER		\$0
D. HAZARDOUS	S MATERIAL	\$0_	1		
1. Phase 1 (stud	ly)		2		
2. Phase 2 (stud	dy)				
3. Phase 3 (rem	nediation)				
TOTAL COSTS I	FOR PART I (A thru G) ROUNI	DED			\$0
CONTINGENCY (normally 5% for l	COSTS arge projects and 10% for small pr	ojects - to be approve	d by section head)	10% (% used)	\$0
	ION AND ENVIRONMENTAL Struction Project Estimate form line				\$0
Estimator: Cen	tury Engineering, Inc. (ASH)		Date: <u>06/03/15</u>		-

### CAPITAL TRANSPORTATION PROJECT COST ESTIMATE (Current Dollars) Part II of V Contract No. Project Title: Rt 10 Path, Gateway S. Shopping Center to US13 - P2 PART II - PRELIMINARY ENGINEERING A. SURVEYS 8. Subdivision \$0 \$40,000 a. Inhouse 1. Inhouse \$40,000 b. Consultant 2. Consultant c. Railroad P.E. **B. DESIGN ENGINEERING** \$335,000 9. Other (specify) \$0 \$280,000 1. Design a. Inhouse C. ENVIRON. ASSESSMENT b. Consultant \$280,000 \$5,000 (use for class "II" projects only) 2. Traffic \$25,000 a. Inhouse \$25,000 1. Wetlands \$0 b. Consultant 2. Hazardous Materials 3. Noise 3. Real Estate Plan Preparation \$0 4. Historic a. Inhouse 5. Archaeology b Consultant 6. Other a. CEE \$5,000 4. Utilities b. Env. Permits \$20,000 a. Inhouse b. Consultant Loc/Environ Estimator: c. Test Holes \$20,000 Date: d. Utility Company D. CONTRACT ADMINISTRATION 5. Materials & Research Cont/Admin Estimator: \_\_\_\_ Date: 6. Borings \$10,000 7. Pile Load Tests TOTAL COSTS FOR PART II (A thru D) ROUNDED \$380,000 **CONTINGENCY COSTS** \$0 (normally 5% for large projects and 10% for small projects - to be approved by section head) (% used) TOTAL PRELIMINARY ENGINEERING \$380,000 (also total for Construction Project Estimate form line 7b) Estimator: Century Engineering, Inc. (ASH) Date: 06/03/15

CAPITA		ON PROJECT COST ESTIMATE ent Dollars)	Part III of V
Contract No.	Projec	et Title: Rt 10 Path, Gateway S. Shopping Ce	
	PART III -	REAL ESTATE	
A. REAL PROPERTY	\$60,000	C. ASBESTOS PROGRAM	\$0
1. Total acquisitions		1. Testing	
2. Partial acquisitions		2. Abatement	
3. Permanent easements	\$40,000	D. DEMOLITION	
4. Temporary easements	\$20,000	E. APPRAISAL FEES	\$20,000
5. Wetland mitigation		F. STAFF	\$20,000
Other (specify) 6		G. SETTLEMENT	
7		H. REAL ESTATE ENG.	\$0
B. RELOCATION	\$0_	1. Consultant survey	
1. Residential		2. As acquired plans	
2. Business		I. CONDEMNATION	
Other (specify) 3.		J. OTHER (specify)	\$0
4		1	
		2	
			<b>*</b>
TOTAL COSTS FOR PART III	(A thru J) ROUNDED		\$100,000
CONTINGENCY COSTS (normally 5% for large projects an	d 10% for small projects - 1	to be approved by section head) $\frac{0\%}{(\% \text{ use})}$	ed) \$0
TOTAL REAL ESTATE COSTS (also total for Construction Project			\$100,000
Estimator: Century Engineering	g, Inc. (ASH)	Date: <u>06/03/15</u>	

CAPITAL TRA		ON PROJECT COST ESTIMATE rrent Dollars)	Part IV-A of V
Contract No.	Pro	oject Title Rt 10 Path, Gateway S. Shopping Center	
		ONSTRUCTION	
A. ROADWAY/APPROACH CONSTRUCTION	\$2,333,000	B. STRUCTURE  CONSTRUCTION	\$0
Grading     a. Excavation     (includes SWM pond)	. ,,	1. New Bridge	
b. Borrow		a. Type	
2. Drainage		b. Size	
Pavement     a. Surface		c. \$/s.f.	
b. Base		2. Old Structure Rem.	
c. Subbase		a. Type	
Subbase  4. Erosion/Sed. Cont.		b. Size	
5. Miscellaneous		c. \$/c.y.	
a. Curb/Gutter		3. Retaining Wall	
b. Sidewalk		a. Type	
c. Guardrail		b. Size	
d. C.P.M. Schedule		c. \$/c.y.	
e. Clear/Grubb		4. Box Culvert	
f. Field Office Other (specify)		a. Type	
g. Total Project Construction	\$2,333,000	b. Size	
h <u>.</u>		c. \$/s.f.	
i		C. LANDSCAPING	\$0
j		1. Beautification	
k		2. Noise Mitigation	
l		3. Visual Mitigation	
m <u>.</u>		4. Tree Mitigation	
(refer to Capital Improvement Project form,	Part IV - Continue	<b>D. MAINTENANCE OF TRAFFIC</b>	

CAPITAL TRANSPORTATION (Currer	PROJECT COST ESTIMATE nt Dollars)	Part IV-B of V
Contract No. Project	et Title Rt 10 Path, Gateway S. Shopping Cente	
<u> </u>	RUCTION (CONTINUED)	1 10 0 513 12
E. PROJECT TRAFFIC ITEMS \$0	P. REIMBURSABLE UTILITY	\$40,000
Signing Structures     a. Overhead Bridges	RELOCATIONS BY OTHERS  (Enter on PNR funding line 1. Water	27)
b. Cantilever Supports	2. Sanitary Sewer	
2. Roadway Lighting	3. Electric	
3. Pavement Markings Other (specify)	4. Telephone	
4	5. Gas	
F. WETLAND MITIGATION  C. LITH LTV DELOC. IN CONTRACT. 50	6. CATV Other (specify)	£40,000
G. UTILITY RELOC. IN CONTRACT \$0  1. Water	7 8	\$40,000
2. Sanitary Sewer Other (specify) 3	Utilities Estimator: Date:	
H. SUBTOTAL (A thru G) ROUNDED \$2,333,000	Q. TRAFFIC SECTION ITEMS  (Enter on PNR funding line 1. Signing	\$125,000 (a) \$25,000
I. MISC. ITEMS \$233,300 (15% of H for large projects and 20% for small) (At SF submission use 10% and 5%) 10%	<ul><li>2. Signals</li><li>3. Detour Signing</li></ul>	\$100,000
(% used)  J. CONTRACTOR'S CONST. ENG. (normally 5% of H)  (% used)  (% used)	<ul><li>4. DelTrac</li><li>Other (specify)</li><li>5.</li></ul>	
K. INITIAL EXPENSE (normally 5% of H) 5% (% used) \$116,650	Traffic Estimator: Date:	
L. CONSTRUCTION CONTINGENCY \$233,300 (normally 10% of H) 10% (% used)		
M. TOTAL CONSTRUCTION COSTS (H thru L) (Enter on PNR funding line 5)		\$3,032,900
N. CONSTRUCTION ENGINEERING (normally 15% of con (Enter on PNR funding line 4)	15%   (% used)	\$454,935
<b>O. TOTAL CONSTRUCTION COSTS (Construction Costs</b> + (use this total + Q + P for Construction Project Estimate from line	0 0,	\$3,487,835
Estimator: Century Engineering, Inc. (ASH)	Date: 6/3/2015	-

CAPITAL TRANSP		DJECT COST ESTIMATE	
	(Current Dollars)		Part V of V
Contract No.	Project Title:	Rt 10 Path, Gateway S. Shopping C	enter to US13 - P2
	SUMMARY		
PART I - LOCATION AND ENVIRONMENT (Part I to be included only for class "I" and "III" p			\$0
PART II - PRELIMINARY ENGINEERING			\$380,000
PART III - REAL ESTATE			\$100,000
PART IV - CONSTRUCTION			\$3,652,835
TOTAL ESTIMATED PROJECT COSTS (also total for Construction Project Estimate from	line 7c)		\$4,132,835
Project Manager		Date:	
REVIEWED & CONCURRED IN:			
Section Head		Date:	
NOTE: Concurring section heads are to forward one estimate copy each to the Assistant Director of Estimate Engineer.			

	Conceptual Cost Estimate - July 2	2015			
ITEM#	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL
201000	CLEARING AND GRUBBING	LS	\$15,000.00	1	\$15,000.00
202000	EXCAVATION AND EMBANKMENT	CY	\$18.00	5,330	\$95,940.00
209002	BORROW, TYPE B	CY	\$30.00	140	\$4,200.00
209006	BORROW, TYPE F	CY	\$24.00	140	\$3,360.00
211000 212000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS UNDERCUT EXCAVATION	LS CY	\$10,000.00 \$18.00	1 270	\$10,000.00 \$4,860.00
302007	GRADED AGGREGATE BASE COURSE. TYPE B	CY	\$50.00	2,250	\$112,500.00
401821	SUPERPAVE BIT. CONCRETE, TYPE C, 160 GYRATIONS, PG64-22, PATCHING	TON	\$85.00	1,910	\$162,350.00
401822	SUPERPAVE BIT. CONCRETE, TYPE B, 160 GYRATIONS, PG64-22, PATCHING	TON	\$125.00	590	\$73,750.00
401823	SUPERPAVE BIT. CONCRETE BASE COURSE, 160 GYRATIONS, 64-22, PATCHING	TON	\$125.00	580	\$72,500.00
602615	MODULAR BLOCK RETAINING WALL	SF	\$50.00	4,320	\$216,000.00
612002	REINFORCED CONCRETE PIPE, 15", CLASS III	LF	\$40.00	4,890	\$195,600.00
612003	REINFORCED CONCRETE PIPE, 18", CLASS III	LF	\$50.00	60	\$3,000.00
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 2	LF	\$22.00	840	\$18,480.00
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	LF	\$40.00	6,740	\$269,600.00
705002	P.C.C. SIDEWALK, 6"	SF	\$7.00	1,500	\$10,500.00
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	SF	\$30.00	1,700	\$51,000.00
708051	DRAINAGE INLET, 34" X 24"	EACH	\$2,000.00	30	\$60,000.00
710001 737523	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET PLANTINGS	EACH LS	\$800.00 \$25,000.00	1	\$3,200.00
743000		LS	\$50,000.00	1	\$25,000.00
743000	MAINTENANCE OF TRAFFIC  ARROWPANELS, TYPE C	EADY	\$30,000.00	9,120	\$50,000.00 \$273,600.00
743003	FURNISH AND MAINTAIN PORTABLE CHANGEABLEMESSAGE SIGN	EADY	\$75.00	30	\$2,250.00
743004	PLASTIC DRUMS	EADY	\$0.50	9,120	\$4,560.00
743007	TRAFFIC OFFICERS	HOUR	\$85.00	160	\$13,600.00
743009	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	EADY	\$100.00	120	\$12,000.00
743023	TEMPORARY BARRICADES, TYPE III	LFDY	\$3.00	480	\$1,440.00
743024	TEMPORARY WARNING SIGNS AND PLAQUES	EADY	\$2.60	1,200	\$3,120.00
743057	FLAGGER, KENT COUNTY, FEDERAL	HOUR	\$47.20	1,920	\$90,624.00
743066	FLAGGER, KENT COUNTY, FEDERAL, OVERTIME	HOUR	\$68.44	480	\$32,851.20
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	SF	\$8.00	4,168	\$33,344.00
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$3.50	1,000	\$3,500.00
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLESIGN POST	EACH	\$75.00	50	\$3,750.00
750000	ADJUST WATER VALVE BOXES	EACH	\$150.00	5	\$750.00
751000	ADJUST FIRE HYDRANTS	EACH	\$1,200.00	5	\$6,000.00
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	SY	\$15.00	2,110	\$31,650.00
760000 762001	PAVEMENT - MILLING, HOT-MIX SAW CUTTING, HOT MIX	SYIN LF	\$3.00 \$5.00	3,840 5,700	\$11,520.00 \$28,500.00
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$6.00	70	\$420.00
905001	SILT FENCE	LF	\$3.00	12,460	\$37,380.00
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	60	\$9,000.00
908004	TOPSOIL, 6" DEPTH	SY	\$7.00	7,200	\$50,400.00
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$7.00	7,200	\$50,400.00
	PEDESTRIAN BRIDGE/RETAINING WALL	LS	\$175,000.00	1	\$175,000.00
	Subtotal				\$2,333,000.00
	CONTINGENCY FOR MISC. ITEMS	10%	ļ		\$233,300.00
763000	INITIAL EXPENSE	5%	ļ	1	\$116,650.00
763501	CONSTRUCTION ENGINEERING	5%		1	\$116,650.00
	CONSTRUCTION CONTINGENCY	10%			\$233,300.00
		+	1	Cubactel	#2 000 000 C
		+	1	Subtotal	\$3,032,900.00
	CONSTRUCTION ENGINEERING - 15% (INSPECTION, CCR, CE, ETC)			-	\$454,935.00
	OONOTION LINGUINELINING - 1370 (INGFLOTION, OOK, OE, ETG)	+	<del> </del>		φ+04,830.00
	TOTAL BASE CONSTRUCTION COST				\$3,487,835.00
	TRAFFIC CECTION ITEMS				
	TRAFFIC SECTION ITEMS		1		\$125,000.00
	RIGHT-OF-WAY UTILITY RELOCATIONS		-	-	\$100,000.00
	PRELIMINARY ENGINEERING	+	1		\$40,000.00 \$380,000.00
	I INCLIMINATIVE ENGLISHING	+	1		φυου,υυυ.υυ
	TOTAL ESTIMATED PROJECT COST				\$4,132,835.00

2. LIMITS Street Name or Road Number SR 10 (K356)		er to US13 - P3	_	Kent County
SR 10 (K356)	From		То	Length
,	S. State St. (K027)	<u>US 13</u>		5,780'
		- — - —		
3. ESTIMATE REQUESTED BY:	Jeff Niezgoda Name	for (check one)	Project initiation Estimate only	Section or Legis. Dist.
4. DESCRIPTION OF IMPROVEM				Section of Legis. Dist.
4. PROJECT IN C.I.P. 5. TYPICAL SECTION 3" Superpave Bituminous Concrete,	Yes ☐ No ☑  Type C + 8" GABC Type B	If "Yes	", indicate year F.Y.	
6. STATE MAINTAINED ☑	CITY MAINTAINED	PRIVATE 🗌	OTHER (specify	)
		from C.I.P. estimate form	Estimate prepared	
7. COST ESTIMATE:		estimate form	by:	Date:
7. COST ESTIMATE:  a. Location and Environmental Studi (Part I to be included only for class)			Century Engineering	
a. Location and Environmental Studi		Part I	•	06/03/15
a. Location and Environmental Studi (Part I to be included only for class '	'I" and "III" projects)	Part I Part II	Century Engineering	06/03/15
a. Location and Environmental Studi (Part I to be included only for class ' b. Preliminary Engineering	"I" and "III" projects) \$340,000	Part I Part II Part III	Century Engineering	06/03/15

	CAPITAL TRANSPO	RTATION PROJ (Current Dollar		TE	
		(Cultent Donai	5)		Part I of V
Contract No.		Project Title: R	Г10 Path, Gateway S. Shopp	oing Center to	o US13 - P3
		ON & ENVIRONME cluded only for class "	ENTAL STUDIES (N/A) I" & "III" projects)		
A. ENGINEERI		E.	HISTORIC		\$0
(Includes NE) <b>B. ARCHAEOL</b>		\$0	1. Phase 1 (study)		
1. Phase I (stud	dy)	<u></u>	2. Phase 2 (study)		
2. Phase 2 (stu	udy)	<u></u>	3. Mitigation (by loc./env.	)	
3. Phase 3 (mi	itigation)		4. Mitigation (by design)		yes no no
C. WETLANDS		\$0 F.	NOISE		\$0
1. Delineation	ı (study)		1. Studies		
2. Permit prep	paration		2. Mitigation (by design)		yes 🗌 no 🔲
3. Mitigation (	(design)	G	. OTHER		\$0
D. HAZARDOU	JS MATERIAL	\$0	1		
1. Phase 1 (stu	udy)		2		
2. Phase 2 (stu	udy)				
3. Phase 3 (real	mediation)				
TOTAL COSTS	FOR PART I (A thru G) ROUN	<b>NDED</b>			\$0
CONTINGENCY (normally 5% for	Y COSTS large projects and 10% for small p	projects - to be approv	ed by section head)	10% (% used)	\$0
	TION AND ENVIRONMENTAL nstruction Project Estimate form lin				\$0
Estimator: Cer	ntury Engineering, Inc. (ASH)		Date: 06/03/15		_

### CAPITAL TRANSPORTATION PROJECT COST ESTIMATE (Current Dollars) Part II of V Contract No. Project Title: RT10 Path, Gateway S. Shopping Center to US13 - P3 PART II - PRELIMINARY ENGINEERING A. SURVEYS 8. Subdivision \$0 \$40,000 a. Inhouse 1. Inhouse \$40,000 b. Consultant 2. Consultant c. Railroad P.E. **B. DESIGN ENGINEERING** \$295,000 9. Other (specify) \$0 \$250,000 1. Design a. Inhouse C. ENVIRON. ASSESSMENT b. Consultant \$250,000 \$5,000 (use for class "II" projects only) 2. Traffic \$25,000 a. Inhouse \$25,000 1. Wetlands \$0 b. Consultant 2. Hazardous Materials 3. Noise 3. Real Estate Plan Preparation \$0 4. Historic a. Inhouse 5. Archaeology b Consultant 6. Other a. CEE \$5,000 4. Utilities b. Env. Permits \$20,000 a. Inhouse b. Consultant Loc/Environ Estimator: c. Test Holes \$20,000 Date: d. Utility Company D. CONTRACT ADMINISTRATION 5. Materials & Research Cont/Admin Estimator: \_\_\_\_ Date: 6. Borings 7. Pile Load Tests TOTAL COSTS FOR PART II (A thru D) ROUNDED \$340,000 **CONTINGENCY COSTS** \$0 (normally 5% for large projects and 10% for small projects - to be approved by section head) (% used) TOTAL PRELIMINARY ENGINEERING \$340,000 (also total for Construction Project Estimate form line 7b) Estimator: Century Engineering, Inc. (ASH) Date: 06/03/15

CAPITAL		ON PROJECT COST ESTIMATE ent Dollars)	Part III of V
Contract No.	Projec	t Title: RT10 Path, Gateway S. Shopping Ce	
	PART III -	REAL ESTATE	
A. REAL PROPERTY	\$60,000	C. ASBESTOS PROGRAM	\$0
1. Total acquisitions		1. Testing	
2. Partial acquisitions		2. Abatement	
3. Permanent easements	\$40,000	D. DEMOLITION	
4. Temporary easements	\$20,000	E. APPRAISAL FEES	\$20,000
5. Wetland mitigation		F. STAFF	\$20,000
Other (specify) 6		G. SETTLEMENT	
7		H. REAL ESTATE ENG.	\$0
B. RELOCATION	\$0_	1. Consultant survey	
1. Residential		2. As acquired plans	
2. Business		I. CONDEMNATION	
Other (specify) 3.		J. OTHER (specify)	\$0
4		1	
		2	
			4400.000
TOTAL COSTS FOR PART III (A	A thru J) ROUNDED		\$100,000
CONTINGENCY COSTS (normally 5% for large projects and	10% for small projects - t	to be approved by section head) $\frac{0\%}{(\% \text{ use})}$	
TOTAL REAL ESTATE COSTS (also total for Construction Project E	Estimate form line 7c)		\$100,000
Estimator: Century Engineering,	Inc. (ASH)	Date: <u>06/03/15</u>	<u></u>

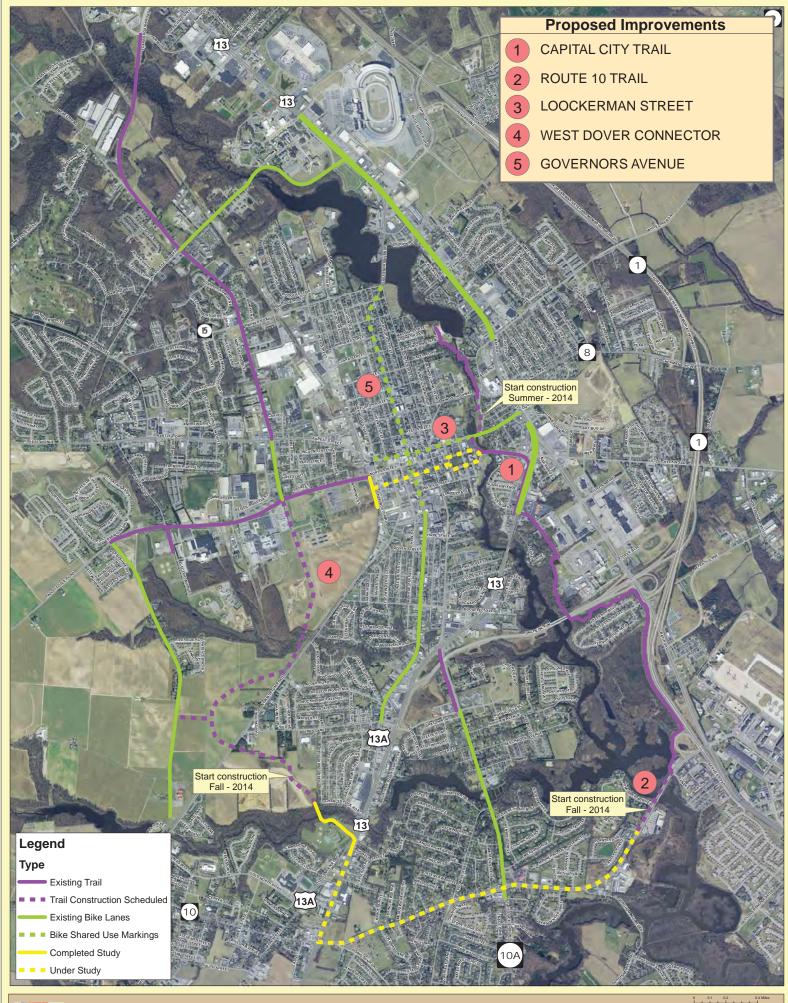
### CAPITAL TRANSPORTATION PROJECT COST ESTIMATE (Current Dollars) Part IV-A of V Project Title RT10 Path, Gateway S. Shopping Center to US13 - P3 Contract No. **PART IV -CONSTRUCTION** A. ROADWAY/APPROACH **B. STRUCTURE CONSTRUCTION** \$1,776,000 **CONSTRUCTION** \$0 1. Grading a. Excavation 1. New Bridge (includes SWM pond) b. Borrow a. Type 2. Drainage b. Size 3. Pavement c. \$/s.f. a. Surface 2. Old Structure Rem. b. Base a. Type c. Subbase b. Size 4. Erosion/Sed. Cont. c. \$/c.y. 5. Miscellaneous a. Curb/Gutter 3. Retaining Wall b. Sidewalk a. Type b. Size c. Guardrail d. C.P.M. Schedule c. \$/c.y. e. Clear/Grubb 4. Box Culvert f. Field Office a. Type Other (specify) g. Total Project Construction \$1,776,000 b. Size c. \$/s.f. C. LANDSCAPING 1. Beautification 2. Noise Mitigation 3. Visual Mitigation 4. Tree Mitigation D. MAINTENANCE OF TRAFFIC (refer to Capital Improvement Project form, Part IV - Continued)

	ON PROJECT COST ESTIMATE urrent Dollars) Part IV-B of V
Contract No. Pr	roject Title RT10 Path, Gateway S. Shopping Center to US13 - P3
	STRUCTION (CONTINUED)
E. PROJECT TRAFFIC ITEMS \$0	P. REIMBURSABLE UTILITY \$40,000
Signing Structures     a. Overhead Bridges	RELOCATIONS BY OTHERS  (Enter on PNR funding line 7)  1. Water
b. Cantilever Supports	2. Sanitary Sewer
2. Roadway Lighting	3. Electric
3. Pavement Markings Other (specify)	4. Telephone
4	5. Gas
F. WETLAND MITIGATION	6. CATV Other (specify)
G. UTILITY RELOC. IN CONTRACT \$0	7 \$40,000
1. Water	8
2. Sanitary Sewer Other (specify) 3	Utilities Estimator: Date:
H. SUBTOTAL (A thru G) ROUNDED \$1,776,000	Q. TRAFFIC SECTION ITEMS \$150,000 (Enter on PNR funding line 6)  1. Signing \$25,000
I. MISC. ITEMS \$177,600 (15% of H for large projects and 20% for small) (At SF submission use 10% and 5%)	2. Signals \$125,000
	3. Detour Signing
J. CONTRACTOR'S CONST. ENG. (normally 5% of H) 5% (% used)	4. DelTrac Other (specify) 5.
K. INITIAL EXPENSE (normally 5% of H) 5% (% used) \$88,800	Traffic Estimator: Date:
L. CONSTRUCTION CONTINGENCY \$177,600 (normally 10% of H) 10% (% used)	
M. TOTAL CONSTRUCTION COSTS (H thru L) (Enter on PNR funding line 5)	\$2,308,800
N. CONSTRUCTION ENGINEERING (normally 15% of (Enter on PNR funding line 4)	construction costs)         15%         \$346,320           (% used)
O. TOTAL CONSTRUCTION COSTS (Construction Cost (use this total + Q + P for Construction Project Estimate from	
Estimator: Century Engineering, Inc. (ASH)	Date: <u>6/3/2015</u>

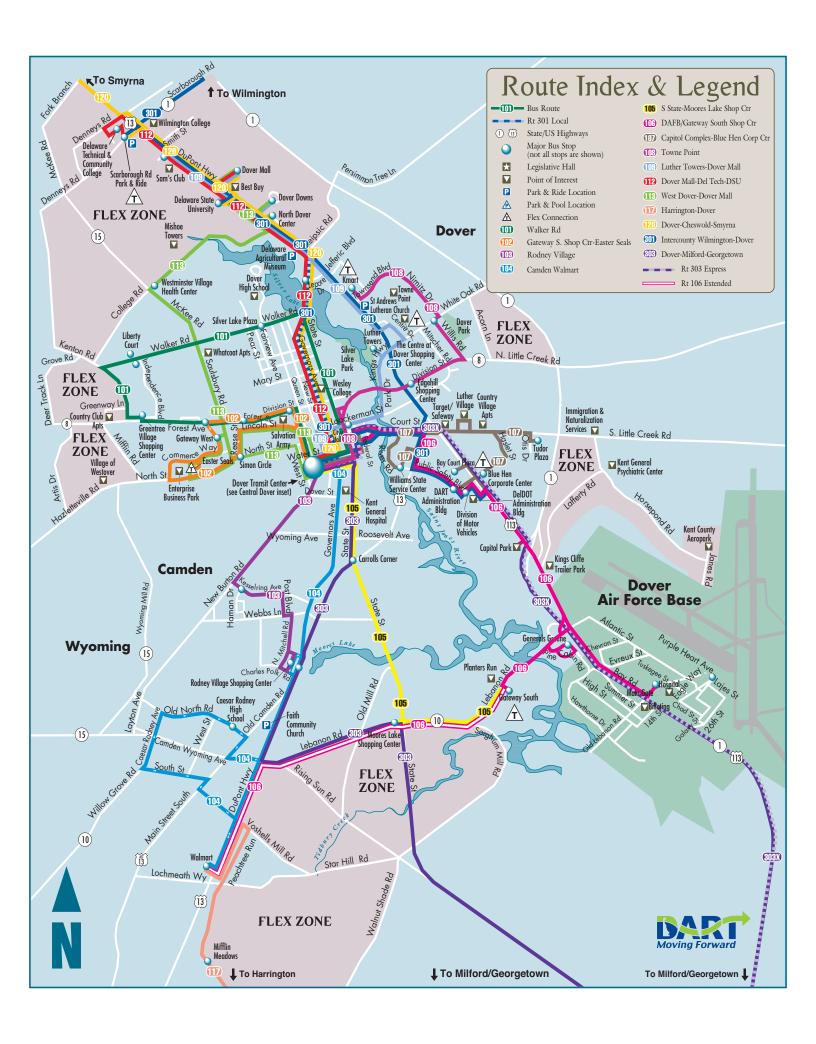
CAPITAL TRANSP		DJECT COST ESTIMATE	
	(Current Dollars)		Part V of V
Contract No.	Project Title:	RT10 Path, Gateway S. Shopping C	Center to US13 - P3
	SUMMARY		
PART I - LOCATION AND ENVIRONMENT (Part I to be included only for class "I" and "III" p			\$0
PART II - PRELIMINARY ENGINEERING			\$340,000
PART III - REAL ESTATE			\$100,000
PART IV - CONSTRUCTION			\$2,845,120
TOTAL ESTIMATED PROJECT COSTS (also total for Construction Project Estimate from	line 7c)		\$3,285,120
Project Manager		Date:	
REVIEWED & CONCURRED IN:			
Section Head		Date:	
NOTE: Concurring section heads are to forward one estimate copy each to the Assistant Director estimate Engineer.			

	Route 10 Pathway, Gateway South Shopping Center to US13 (Phase 3)				
	Conceptual Cost Estimate - July		•		
ITEM#	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL
	CLEARING AND GRUBBING	LS	\$10,000.00	1	\$10,000.00
	EXCAVATION AND EMBANKMENT	CY	\$18.00	5,270	\$94,860.00
	BORROW, TYPE B	CY	\$30.00	140	\$4,200.00
	BORROW, TYPE F	CY	\$24.00	140	\$3,360.00
	REMOVAL OF STRUCTURES AND OBSTRUCTIONS UNDERCUT EXCAVATION	LS	\$10,000.00 \$18.00	1 270	\$10,000.00 \$4,860.00
302007	GRADED AGGREGATE BASE COURSE, TYPE B	CY	\$50.00	2,530	\$126,500.00
401821	SUPERPAVE BIT. CONCRETE, TYPE C, 160 GYRATIONS, PG64-22, PATCHING	TON	\$85.00	1,580	\$134,300.00
401822	SUPERPAVE BIT. CONCRETE, TYPE B, 160 GYRATIONS, PG64-22, PATCHING	TON	\$125.00	510	\$63,750.00
401823	SUPERPAVE BIT. CONCRETE BASE COURSE, 160 GYRATIONS, 64-22, PATCHING	TON	\$125.00	500	\$62,500.00
602615	MODULAR BLOCK RETAINING WALL	SF	\$50.00	5,880	\$294,000.00
	REINFORCED CONCRETE PIPE, 15", CLASS III	LF	\$40.00	4,740	\$189,600.00
	REINFORCED CONCRETE PIPE, 18", CLASS III	LF	\$50.00	60	\$3,000.00
	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	LF	\$40.00	6,520	\$260,800.00
	P.C.C. SIDEWALK, 6"	SF	\$7.00	3,750	\$26,250.00
	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	SF	\$30.00	700	\$21,000.00
	DRAINAGE INLET, 34" X 24"	EACH	\$2,000.00	30	\$60,000.00
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	EACH	\$800.00	8	\$6,400.00
	PLANTINGS MAINTENANCE OF TRAFFIC	LS	\$35,000.00 \$50,000.00	1	\$35,000.00 \$50,000.00
	ARROWPANELS, TYPE C	EADY	\$30,000.00	240	\$7,200.00
	FURNISH AND MAINTAIN PORTABLE CHANGEABLEMESSAGE SIGN	EADY	\$75.00	30	\$2,250.00
	PLASTIC DRUMS	EADY	\$0.50	9,120	\$4,560.00
743007	TRAFFIC OFFICERS	HOUR	\$85.00	160	\$13,600.00
	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	EADY	\$100.00	120	\$12,000.00
743024	TEMPORARY WARNING SIGNS AND PLAQUES	EADY	\$2.60	1,200	\$3,120.00
743057	FLAGGER, KENT COUNTY, FEDERAL	HOUR	\$47.20	1,920	\$90,624.00
743066	FLAGGER, KENT COUNTY, FEDERAL, OVERTIME	HOUR	\$68.44	480	\$32,851.20
	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	SF	\$8.00	1,364	\$10,912.00
	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$3.50	3,000	\$10,500.00
	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLESIGN POST	EACH	\$75.00	50	\$3,750.00
750000	ADJUST WATER VALVE BOXES	EACH	\$150.00	5	\$750.00
	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.  PAVEMENT - MILLING, HOT-MIX	SY	\$15.00	90	\$1,350.00 \$3,750.00
	SAW CUTTING, HOT MIX	LF	\$3.00 \$5.00	1,250 5,520	\$3,750.00
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$6.00	30	\$180.00
	SILT FENCE	LF	\$3.00	10,200	\$30,600.00
	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	80	\$12,000.00
	TOPSOIL, 6" DEPTH	SY	\$7.00	5,970	\$41,790.00
	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	5,970	\$5,970.00
	Subtotal				\$1,776,000.00
	CONTINGENCY FOR MISC. ITEMS	10%		,	\$177.600.00
763000	INITIAL EXPENSE	10%		1	\$88,800.00
763501	CONSTRUCTION ENGINEERING	5%		1	\$88,800.00
7 00001	CONSTRUCTION ENGINEERING CONSTRUCTION CONTINGENCY	10%		<u>'</u>	\$177,600.00
	ONO TROUTEN CONTINUENCY	1070			
				Subtotal	\$2,308,800.00
	CONSTRUCTION ENGINEERING - 15% (INSPECTION, CCR, CE, ETC)				\$346,320.00
	TOTAL BASE CONSTRUCTION COST				\$2,655,120.00
	TRAFFIG OF STICKLIFFE IN				
	TRAFFIC SECTION ITEMS				\$150,000.00
	RIGHT-OF-WAY				\$100,000.00
	UTILITY RELOCATIONS PRELIMINARY ENGINEERING	+			\$40,000.00 \$340,000.00
					•
	TOTAL ESTIMATED PROJECT COST				\$3,285,120.00

# Facilities Map



# DART Bus Routes Map



# Historic Documents



	н	ES DEPARTMENT OF ATIONAL PARK SERV	VICE		DULAWA	ro
		GISTER OF HIS DRY - NOMINAT		ES	Kent FOR NPS (	the same of the sa
	(Type all entri	es – complete app	licable section	15)	ENTHY NUMBE	H DATE
2. LOCATIO	Great Genev	7a.				
CITY OH	R.D.1, Box	401 (Del. Rt.	356)			
STATE	Dover Delaware		10	COUNTY	ent	CODE
	CATION CATEGORY (Check One)		OWNERSHIP	har .	STATUS	ACCESSIBLE TO THE PUBLIC
☐ Distri	et 3 Building  5tructure  Object	Public Private Beth	Public Acquisitio to Proce Being C	161	Occupied Unoccupied Preservation war in pragress	Yes:  No Restricted  Unrestricted  No
G Agric Comm Educe	ercial     A	ndustrial SI	Perk Privote Residen Religious Scientilic		Transportation Other (Specify)	Comments
UNNEH'S	HAMEI	h H. Concilie	<u> </u>			
	R.D.1, Box	401				
L	Dover	RIPTION		Dela	ware	1.0
	NOF LEGAL DESC					
LOCATIO	NOF LEGAL DESC USE, REGISTRY OF Kant County NO NUMBERS					
LOCATIO	Kent County No Numbers The Green			STATE		CODE
STREET	Kent County no number The Green can Dover	Courthouse			laware	20 E
STREET A	Kent County np numbers  The Green own  Dover	Courthouse	nas Surve	Do		
COUNTHO	Kent County ND NUMBER  The Green OWN  Dover  ITATION IN EXIST STORE AT	Courthouse ING SURVEYS erican Buildi	ings Surve S! Federal	Do	r1=139	

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			-						~
7.	DESCRIPTION		•*	- 1 <u>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</u>		40 (11 s.s.			
_	<u> </u>	П				(Check One)			
		N	Excellent	□ 60 ∞4	☐ Feir	Deteriorated	Ruins	☐ Unexposed	
	CONDITION	$\Box$		(Check On	•)		{Che	ck One)	_
	ĺ		⊠ Alte	ered	Unaltered		Mayad	⊠ Original Site	
i				transport did book	wal freeze from a	LANGELOANCE			

Located north of the Tidbury Branch of St. Jones River, Great Geneva is a two-story-and-attic brick structure constructed on a hall and parlor plan. The house has a north frontage, laid in Flemish bond. Detailing includes a box cornice, keyed lintels, and a rectangular transom over the center entry.

The rear wall is laid in English bond. Two of the three south bays are occupied by doorways, one of which formerly communicated to a rear kitchen. This wing has been replaced by a newer one attached to the west gable wall.

The west gable wall is laid in Flemish bond with glazed headers.

The east gable has been stuccoed. It is further obscured by another recent addition containing bathrooms.

Very little original detailing remains on the first floor of the interior. The crown moulding, chair railing, paneled end walls, and cupboards have been added by the present owners. In addition, modern kitchen facilities occupy the southeast room, which was formed by adding a partition wall to the east fireplace breast.

The second floor has fared somewhat better. The west bed chamber contains an original paneled end wall, chair railing, and cornice.

The east chamber contains portions of original detailing. The second floor has been rather curiously divided into four separate spaces.

To the south are the two bed chambers; to the north are a hallway and antercom.

The basement, contained by brick foundation walls laid in English bond, contains three fireplaces spanned by segmental brick arches. The

ME INSTRUCTION

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Porm 19-3000 (July 1949)

# - JATES DEPARTMENT OF THE INTERIS.

# HATIONAL REGISTER OF HISTORIC PORM

(Continuation Sheet)

. ATE	Delaware	
YTHUES	Kent	,
	FOR HPS USE ON	ILY
EN	TRY NUMBER	DATE

(Number all entries)

7. DESCRIPTION (continued) ---

water table occurs on the interior, decreasing the wall thickness by one brick course between the basement and first floor. The wall thickness again decreases between the first and second floor.

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	()	- 1
	1 1	1

PERIOD (Check Das es More a	Appropriate)		
Pre-Calumbian	☐ Jath Century	18th Century	20th Century
15th Century	17th Contury	19th Century	
SPECIFIC DATEIS (II Applica	مراوا المساورية المساورية المساورية المساورية		
AREAS OF SIGNIFICANCE (C)	reck One or More as Approp	selate)	
Aboriginal	Education	Political	Urbon Planning
Problemic	Enginearing	Religion/Phi-	Other (Specify)
Historic	Industry	lesophy	
Agriculture	[ Invention	☐ Science	
Architecture	☐ Londscope	Sculpture	
□ Art	Architecture	8) Social/Human-	
Commerce	Literature	limian	
Communications	Milliory	[] Theater	
☐ Conservation	Music	Transportation	

Great Geneva was intimately

connected with the growth of the community of Friends near Camden, and with the fortunes of the Hunn family:

The Hunns in Delaware are descended from a certain Nathaniel Hunn of Boston. After he died in King Philip's War, his wife, Priscilla, remarried and moved to Kent County, bringing her young children with her.

Jonathan Hunn, the great-grandson of Priscilla Hunn, purchased the tract called Great Geneva before 1765, and probably built his house about the same time. The tract had first been surveyed to Alexander Humphreys in 1683, and passed through several hands before the middle of the eighteenth century. Adjacent to the Great Geneva property is Brecknock, from which Daniel Mifflin took a portion in 1783 to lay out Piccadilly, the present-day Camden, a center for the Society of Friends in Delaware.

Sons, grandsons, and great-grandsons of the house's builder live! at Great Geneva, and continued their activities as Friends, and, during the nineteenth century, as abolitionists. Both Ezekiel and John, grandsons of Jonathan, were ardent foes of slavery. The latter was a friend of abolitionist Thomas Garrett. On his deathbod, John

Ferm 10.300a (July 1969)

## UNITED STATES DEPARTMENT OF THE INTERIOR

# NATIONAL REGISTER OF HISTORIC PLACES INVENTORY - MOMINATION FORM

(Continuation Sheet)

STATE	
Delaware	
COUNTY Kent	d.,
FOR NPS USE ON	ILY
ENTRY HUMBER	DATE

(Humber all entries)

### 8. SIGNIFICANCE (continued) ---

is said to have told his son about a diary revealing the story of the Underground Railroad in Delaware. He exacted a promise that it be destroyed. As the son left the sick bed, the father asked, "Son, thee meant to copy that diary before thee destroyed it, is it not so?" The father requested again that the diary be burned. His son, another John, became Delaware's governor between 1901 and 1905.

Another John Hunn, not so closely connected to Great Geneva, although he may have been born there,

trained for the sea, and commanded the privateer SECURITY in Delaware Bay, during the Revolution. Through him, the Hunns are connected to another prominent Delaware

family; his daughter married Caesar Augustus Rodney, nophew of Caesar Rodney.

Ш m æ 0

NATIONAL REGISTER OF HISTORIC PLACES  PROPERTY PHOTOGRAPH FORM  (Type nil entries - altach to or enclose with photograph)		Kent FOR NPS USE ONLY			
		ENTRY NUMBER	DA		
1. NAME	···	I			
commonis Great Geneva					
AND/OR HISTORIC:					
LOCATION					
R.D.1, Box 401 (Delaw;	ure Route 356)				
Dolaware	10	Kent	00		
3. PHOTO REFERENCE					
PHOTO CREDIT! Graydon Woo	od				
DATE OF PHOTO: August 1972					
REGATIVE FILED ATE					
Historia Dogietenele	Office, Hall of Record	s, Dover, Delawar	0		
4. IDENTIFICATION					

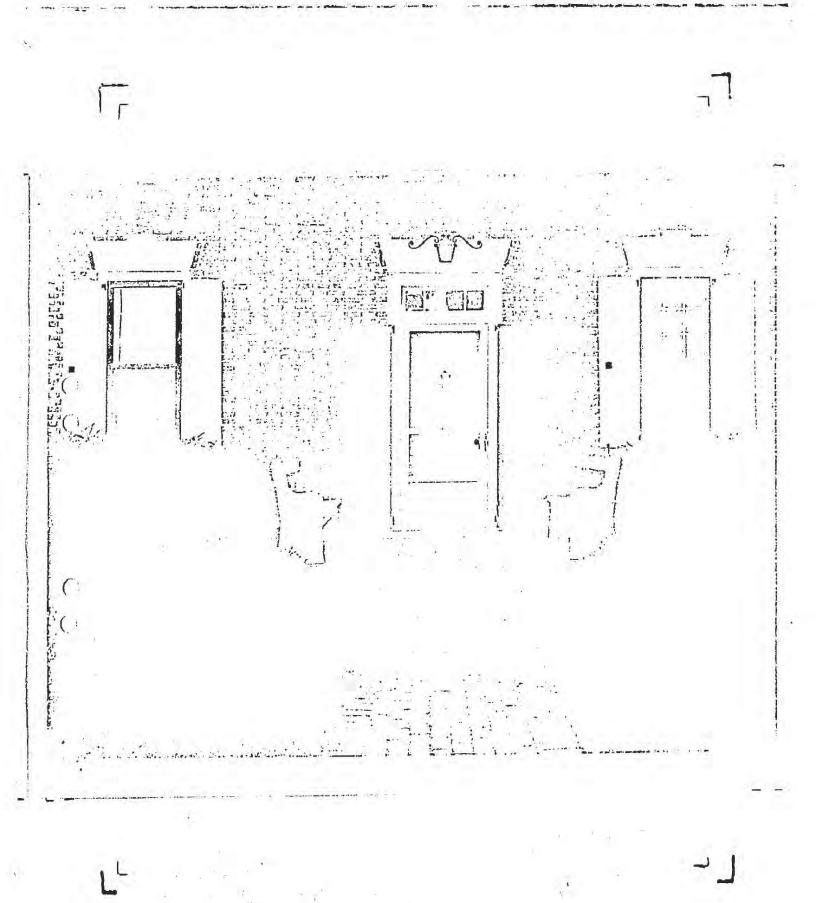
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NATIONAL REGISTER OF HISTORIC PLACES		Delaware COUNTY Kent				
	PROPERTY PHOTOGRAPH FORM		FOR NPS USE ONLY			
(Type all entries - attach to or enclose with photograph)		ENTHY HUMBER	DATE			
1.	NAMEROO					
	сочмоны Great Geneva					
	AND/OR HISTORIC:					
2.	LOCATION					
	R.D.1, Nox 401 (Delawa city on town: Dover	re Route 356)	oute 356)			
	Delaware	TO COUNTY	Kent	001		
3. 1	PHOTO REFERENCE					
	еното скертт ) Graydon Wood					
	DATE OF PHOTO: "August 1972					
	Historic Registrar's Office, Hall of Records, Dover, Delaware					
4.	IDENTIFICATION .					
	DESCRIBE VIEW, BIRECTION, ETC.	-				
1	Detail of front door.					

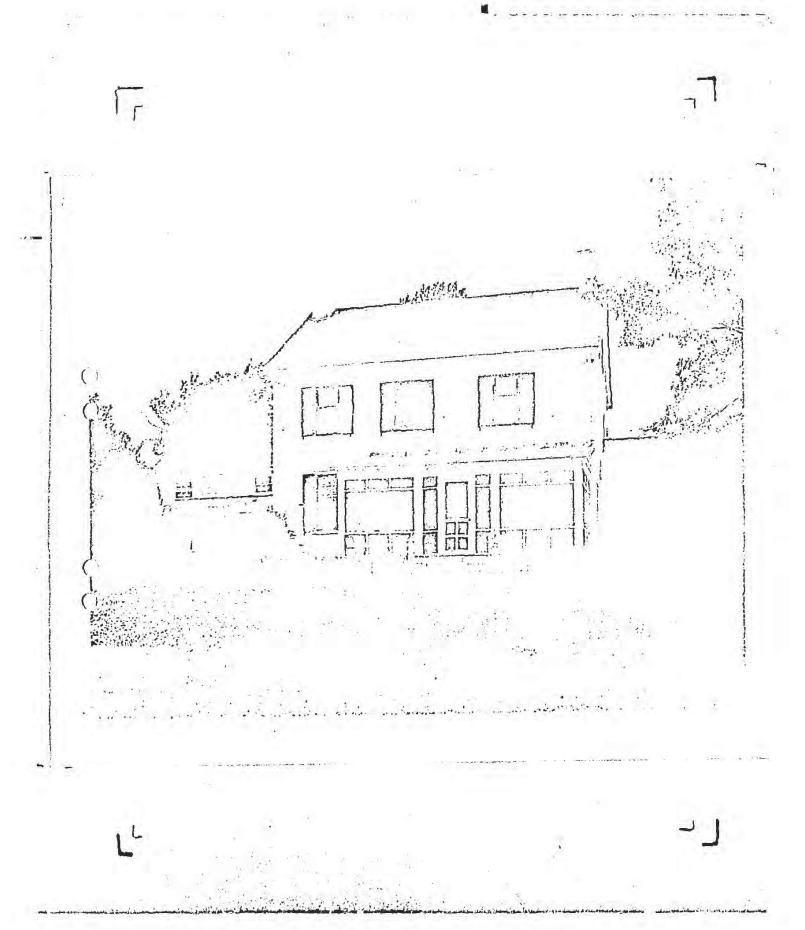
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		UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE		Delaware	
		NATIONAL REGISTER OF HISTORIC PLAC	CES	Kent	
		PROPERTY PHOTOGRAPH FORM		FOR NPS USE ONLY	
			eranh)	ENTRY NUMBER	DATE
	S	(Type all entries - attach to or enclose with photog	grapuj		
•	Z	1, 2 NAME 1994			
•	0	commonster Great Geneva			
	_	AND/OR HISTORIC:			
	<b>—</b>	2. LOCATION A			
1	Ü	STREET AND NUMBER.			
i	_	R.D.1, Box 401 (Delaware Route 356)			
1		CITY OR TOWN: .			
1	D.:	Dover			1
i i	T. Jun	A Contract of the Contract of	OUNTY:	•	CODE
į.	S	Delaware 10		Kent	001
	z	3. PHOTO REFERENCE			
1	_	PHOTO CREDIT: Graydon Wood			·
*		DATE OF PHOTO: August 1972			
	ш	IZGATIVE FILED AT:		5 B.J. wana	
	ш	Historic Registrar's Office, Hall of .	Record	is, Dover, Delaware	
	S	4. IDENTIFICATION			
		DESCRIBE VIEW, DIRECTION, ETC.			
	•	Rear view from the south.			
i					

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R-FIVED APR

#### ENTRIES IN THE NATIONAL REGISTER

DELAWARE STATE

MAR 2 6 1973 Date Entered

Location

Great Geneva

Dover vicinity Kent County

Liston House

Taylor's Bridge vicinity New Castle County

COPY OF Condition WAL Inches

Also Motified

Hon. J.R. Biden Hon. William V. Roth, Jr. Hon. Pierre S. du Pont, IV



UP SATE

# CULTURAL RESOURCE SURVEY LOCUS IDENTIFICATION FORM

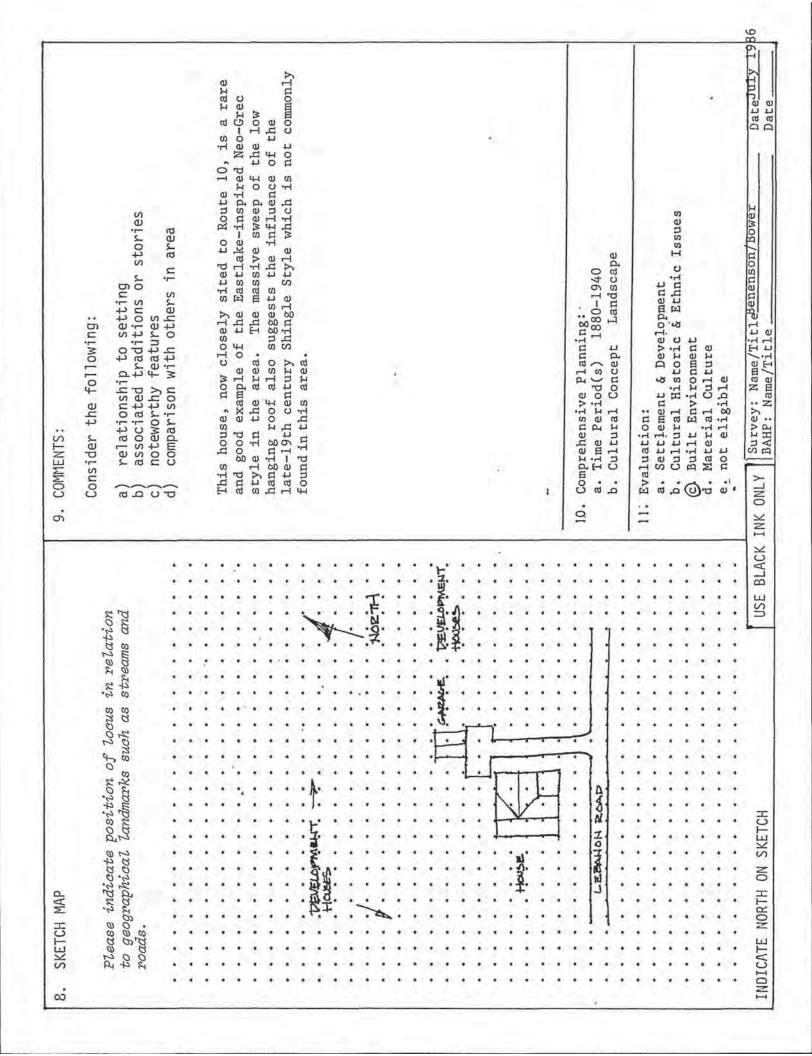
DELAWARE BUREAU OF ARCHAEOLOGY AND HISTORIC PRESERVATION HALL OF RECORDS DOVER, DELAWARE 19901 (302) 736 - 5685



FORM CRS-3

FOR OFFICE USE ONLY

1.	NAME OF LOCUS: Hse., RE 10	profession ( )
	STREET LOCATION: 515 Lebanon Rd. (Rt. 10; N.	
3.		
	ADDRESS:	
4.	TYPE OF LOCUS: a) structure x b) district	c) archaeological site
	d) other	
5.	SURROUNDINGS OF LOCUS: (check more than one	
	a) fallow field b) cultivated field	d c) woodland
	d) scattered buildingse) densely	built up <u>x</u> f) other
6.	THREATS TO LOCUS: (check more than one if ne	cessary)
	a) none known b) zoning c) re	oads d) developers <u>x</u> _
	e) deterioration f) other	
7.	REPRESENTATION ON OTHER SURVEYS:	
	TITLE:	##
	TITLE:	#
	TITLE:	#
8.	YOUR NAME: Carol A. Benenson/Mark A. Bower	TEL. # <u>215-561-1050</u>
	YOUR ADDRESS: 1316 Arch Street, Philadelphia,	PA 19107
	ORGANIZATION (if any) KKFS, Inc.	



#### Form CRS-1

#### FOR OFFICE USE ONLY

DELAWARE BUREAU OF ARCHAEOLOGY AND HISTORIC PRESERVATION HALL OF RECORDS DOVER, DELAWARE 19901 (302) 736 - 5685

CULTURAL RESOURCE SURVEY STRUCTURAL DATA FORM



CRS # K-3345 Ouad Wyoming SPO map # 10-11-20 Hundred North Murderkill 20-06/78/08/14 DOCUMENT

SKETCH PLAN

- 1. ADDRESS OF STRUCTURE: 515 Lebanon Rd. (Rt. 10, N. side, east of Jct. 13)
- 2. DESCRIBE THE STRUCTURE AS COMPLETELY AS POSSIBLE:
  - a) Overall shape square stories 2 bays 3 wings
  - b) Structural system frame
  - c) Foundation materials brick basement yes
  - d) Exterior walls materials clapboarding color(s) blue, ivory trim
  - e) Roof shape; materials gabled, asphalt cornice overhang w/ scrolled brackets dormers chimney location(s) ridge line
  - f) Windows

spacing regular

type single and paired 9/1 d.h.

trim simple wood surrounds; shed pents supported by brackets over

shutters none windows of main elevation

g) Door

spacing off center

type single-leaf 6-panel, grooved field, chamfered rails and stiles. trim simple wood surrounds original doorbell pull.

h) Porches

location(s) front

materials wood, side area shingled

supports Neo-Grec chamfered post w/incised bands and dots.

trim steep overhang

i) Interior details (if accessible)

USE BLACK INK ONLY

3. CONDITION:	good <u>X</u>	deteriorated
remarks:		
4. INTEGRITY: a)	original site	b) moved x
		from where _c. 1926 from further back in field
		ons and dates (if known)
	, roo mayor arecrae.	ons and dates (17 known)
5. DATE OF INITIAL	CONSTRUCTION.	- 1000
		c. 1890
		<del></del>
7. RELATED OUTBUIL	DINGS:	
a) barn -	b) carriage hous	se c) garage <u>x</u> d) privy
		g) shop h) gardens
		sek) other
describe:	vertical wook sidi	ng, gabled roof
a service a service	The probability Street of	
	THE ORIGINAL AND SU TH HISTORIC EVENTS O	IBSEQUENT USES OF THE STRUCTURE. NOTE ANY OR PERSONS:
a Lass rims All h	A STATE OF THE PARTY.	37 (37 (37 (37 )
The house was b	uilt in the late 19t	h century as a single family dwelling and
continues to be	used as such.	
	1	
9. Primary Refer	ences: (include loca	tion of reference).
Cultural Resour	ce Survey Form, 1981	, Filed with the Delaware BAHP, Dover, DE.
Ik kanalan da		Date of Power
10. Surveyor: B	enenson/Bower - KKFS	, Inc. Date of Form: July 1986
	USE BI	LACK INK ONLY



CULTURAL RESOURCE SURVEY LOCUS IDENTIFICATION FORM

DELAWARE BUREAU OF ARCHAEOLOGY AND HISTORIC PRESERVATION HALL OF RECORDS DOVER, DELAWARE 19901 (302) 736 - 5685

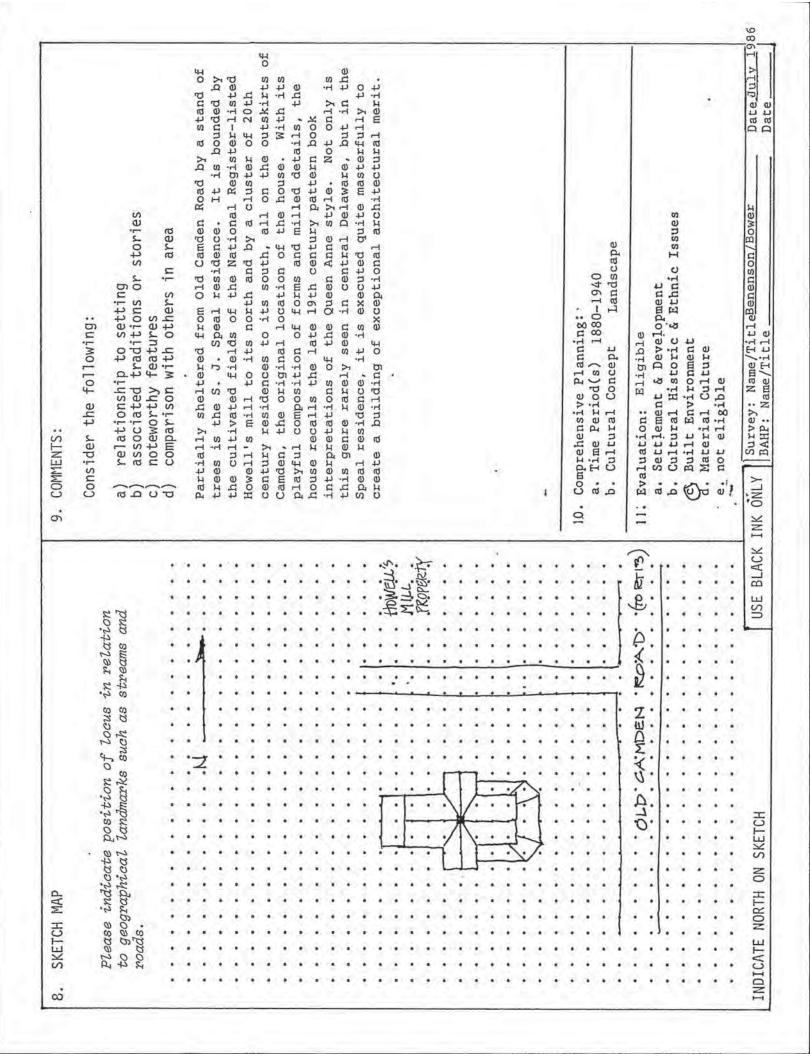


FORM CRS-3

FOR OFFICE USE ONLY

CRS # K-3772
Quad Wyoming
SPO map # 10-11-22
Hundred East Dover
DOCUMENT 20-06/78/04/7

7	NAME OF LOCUS: S. J. Speal Residence (HSE DE	130
		(213)
2.	STREET LOCATION: 108 Old Camden Road	
3.	OWNER'S NAME:	TEL. #
	ADDRESS:	
4.	TYPE OF LOCUS: a) structure $x$ b) district c) are	chaeological site _
	d) other	
5.	SURROUNDINGS OF LOCUS: (check more than one if necessary	)
	a) fallow field b) cultivated field $\frac{x}{}$ c) w	oodland
	d) scattered buildings $\underline{x}$ e) densely built up $\underline{}$	f) other
6.	THREATS TO LOCUS: (check more than one if necessary)	
	a) none known $\underline{x}$ b) zoning $\underline{\hspace{1cm}}$ c) roads $\underline{\hspace{1cm}}$ d	) developers
	e) deterioration f) other	
7.	REPRESENTATION ON OTHER SURVEYS:	
	TITLE: Delaware Bureau of Archaeology and Historic Prese	ervation#
	TITLE:	##
	TITLE:	##
8.	YOUR NAME: Carol A. Benenson/Mark A. Bower	TEL. # 215-561-1050
	YOUR ADDRESS: 1316 Arch Street, Philadelphia, PA 19107	
	ORGANIZATION (if any) KKFS, Inc.	DATE: July 1986



#### CULTURAL RESOURCE SURVEY STRUCTURAL DATA FORM

DELAWARE BUREAU OF ARCHAEOLOGY AND HISTORIC PRESERVATION HALL OF RECORDS DOVER, DELAWARE 19901 (302) 736 - 5685



Form CRS-1

FOR OFFICE USE ONLY

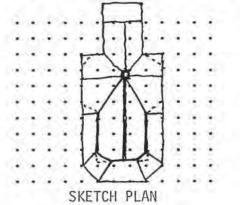
CRS # Quad SPO map # Hundred DOCUMENT Wyoming 10-11-22 East Dover

20-06/78/08/14

ADDRESS OF STRUCTURE: 108 Old Camden Road, Dover, DE 19901

#### 2. DESCRIBE THE STRUCTURE AS COMPLETELY AS POSSIBLE:

- a) Overall shape cross
  stories 2 1/2
  bays various
  wings cross plan
- b) Structural system frame
- c) Foundation
  materials cmu
  basement no



d) Exterior walls

materials clapboarding and ornamental shingles color(s) yellow and blue

e) Roof

Shape; materials gable, asphalt
cornice projecting eave w/brackets; projecting soffits at corners w/
dormers latticed brackets

dormers no chimney location(s) central (see sketch plan)

f) Windows

spacing regular

type 2/2 and 1/1 double hung

trim simple frames

shutters no

g) Door

spacing side entrance to front wing; front entrance to side wing

type wood

trim simple frame

h) Porches

location(s) wrap-around

materials wood

supports turned posts

trim Japanesque turned balusters and brackets

i) Interior details (if accessible)

largely unaltered; stained glass light in hall, handsome turned balustrade, colonial revival mantel, grooved moldings with bosses

USE BLACK INK ONLY

3.	CONDITION:	good deteriorated
	remarks:	
١.	INTEGRITY: a)	original site b) movedx
	c)	if moved, when and from wheresame lot as church in Camden
	d)	list major alterations and dates (if known) 20th century shed added to rear
· .	DATE OF INITIAL	CONSTRUCTION:circa 1890
· .	ARCHITECT/BUILDE	R:likely pattern book construction
		b) carriage house c) garage d) privy
	e) shed	f) greenhouse g) shop h) gardens
	i) icehouse	j) springhouse k) other
	describe: _	
		THE ORIGINAL AND SUBSEQUENT USES OF THE STRUCTURE. NOTE ANY H HISTORIC EVENTS OR PERSONS:
	S. J. Speal, know as a fruit buyer peninsula, shippi grapes, blackberr also worked on the dence eventually Veterans of Foreithouse. Its current respect for the house	tyle house was built in the late-nineteenth century for on as the "Fruit King: of Delaware. Mr. Speal began his business in 1887 and by 1902 was the largest buyer of fruits on the ong over 500 car loads of asparagus every year as well as apples, ries, strawberries, raspberries, orchard fruits, and potatoes. He propagation of a new pear called the Lalcounte. The Speal resi was acquired by its adjacent church in Camden, then sold to the one was who moved it to its present site in the 1960s and sold the one of the complete a sensitive restoration with considerable couse's architectural integrity.  Inces: (include location of reference).
	The Delawarear	, 1902. Newspaper clipping with photograph held by the owner.
	. Surveyor: Be	enenson/Bower - KKFS, Inc. Date of Form: July 1986

# Crash Data Summary

#### SR10 Pathway Concept: 3-Year Crash Summary

#### **BACKGROUND**

The SR10 Pathway project is for the development along SR10, US13 and Alternate US13 of an approximately 10-foot wide, 16,000-foot long multi-modal pathway that will connect the Gateway Shopping Center to Brecknock Park and various residential communities between the two destinations. The project, located in Kent County, is being undertaken as part of the Statewide Trails initiative to improve accessibility and safety for pedestrians and bicyclists throughout the community. The project was also identified as part of an overall statewide master plan to provide a statewide multi-modal transportation network.

#### **PURPOSE**

The purpose of this report is to review the frequency of crashes by severity in the vicinity of the roadways and intersections along which the proposed pathway will be developed, especially crashes involving pedestrians and cyclists. The crash reviewed was for the three-year period commencing April 1, 2012 through March 31, 2015.

#### **CRASH SUMMARY**

Most of the crashes for the period reviewed involved property damage and/or injury crashes. Two (2) fatalities (none involving pedestrians or cyclists), were reported within that same period. There were two reported injury crashes involving pedestrians for the 3-year period. None of the reported crashes involved cyclists. A summary of the 3-year crash frequency by severity for each location follows, and tables presenting the annual details are provided at the end of the summary.

#### **Intersection of SR10 and Gateway Boulevard**

For the 3-year period, a total of twenty-two (22) crashes were reported at the intersection of SR10 and Gateway Boulevard. Fifteen (15) crashes involving property damage and seven (7) involving injury were reported. None of these crashes involved pedestrians. None of the crashes at the intersection involved a fatality.

#### **Intersection of US13 and SR10**

At the intersection of US13 and SR10, a total of seventy-six (76) crashes were reported for the 3-year period. Sixty-eight (68) crashes involving property damage and eight (8) involving injury were reported. One (1) of these crashes involved a pedestrian. According to the crash report, the pedestrian was skateboarding on the shoulder of US13 with his back to traffic when he was hit. The victim sustained minor injuries. None of the crashes at the intersection involved a fatality.

#### **Intersection of SR10 and Alternate US13**

For the 3-year period, a total of twenty (20) crashes were reported at the intersection of SR10 and Alternate US13. Seventeen (17) crashes involving property damage and three (3) involving injury were reported. None of these crashes involved pedestrians, and none involved a fatality.

#### SR10 Pathway Concept: 3-Year Crash Summary

#### **Intersection of US13 and Alternate US13**

At the intersection of US13 and SR10, a total of twenty-five (25) crashes were reported for the 3-year period. Nineteen (19) crashes involving property damage and six (6) involving injury were reported. None of these crashes involved pedestrians and none involved a fatality.

#### SR10 – Segment from Gateway Boulevard to US13

For the 3-year period, a total of one hundred thirty-four (134) crashes were reported along the segment of SR10 from Gateway Boulevard to US13. One hundred eight (108) crashes involving property damage and twenty-four (24) involving injury were reported. Two crashes involving a fatality each were reported. Alcohol involvement was reported in each case. None of the crashes along this segment involved pedestrians.

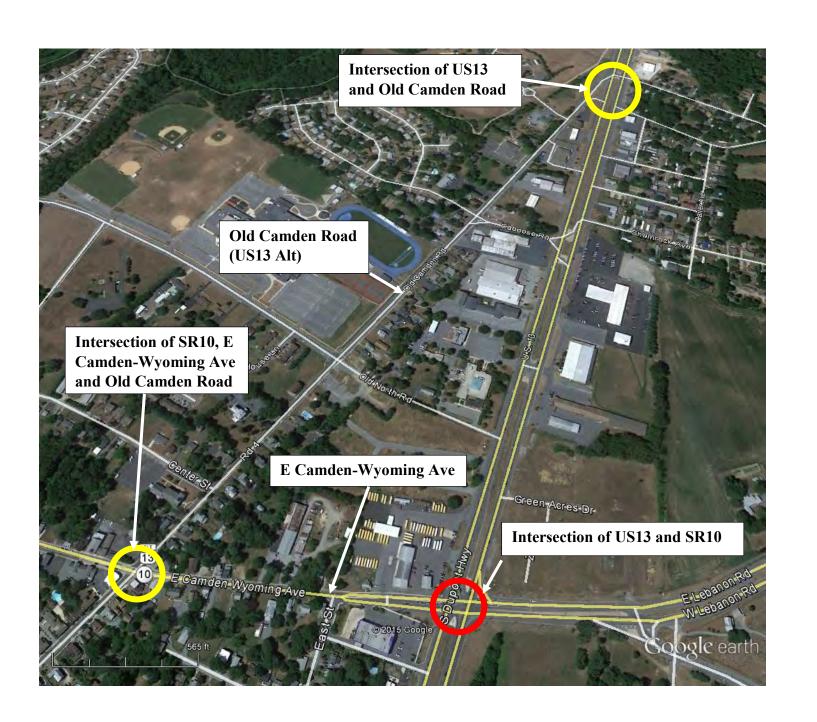
#### SR10 – Segment from US13 to Alternate US13

Along the segment of SR10 from US13 to Alternate US13, a total of thirty-five (35) crashes were reported for the 3-year period. Thirty-one (31) crashes involving property damage and four (4) involving injury were reported. None of these crashes involved pedestrians and none involved a fatality.

#### Alternate US13 – Segment from SR10 to US13

For the 3-year period, a total of nine (9) crashes were reported. Six (6) crashes involving property damage and four (4) involving injury were reported. None of these crashes involved fatalities. One crash involved a pedestrian. According to the crash report, due to the absence of sidewalk, the pedestrian was walking on the shoulder of Alternate US13 when the driver of the vehicle allegedly entered the shoulder to make a right-turn. The pedestrian sustained minor injuries as a result of hitting the pavement when the driver slammed on his brakes to throw the pedestrian off his hood. The pedestrian had reportedly jumped onto the hood of the vehicle to avoid being hit.





#### **SR10 Pathway Concept: 3-Year Crash Tables**

#### Intersection of SR10 and Gateway Boulevard

	April 1, 2	012 to N	1arch 31	, 2013	April 1, 2	013 to N	1arch 31	, 2014	April 1, 20	3-Year			
	Property	Iniurv	Fatal	Total	Property	Iniurv	Fatal	Total	Property	Iniurv	Fatal	Total	Grand
	Damage	ilijury	гасаі	TOtal	Damage	ilijury	ratai	TOtal	Damage	ilijury	гасаі	TOtal	Total
Total of All Crashes	4	3	0	7	3	3	0	6	8	1	0	9	22
Involving Pedestrians		0	0	0		0	0	0		0	0	0	0
Involving Bicycles		0	0	0		0	0	0		0	0	0	0

#### Intersection of US13 and SR10

	April 1, 2	012 to N	1arch 31	, 2013	April 1, 2	013 to N	1arch 31	, 2014	April 1, 20	3-Year			
	Property	Injuny	Fatal	Total	Property	Iniurv	Fatal	Total	Property	Inium	Fatal	Total	Grand
	Damage	Injury	гасаі	TOLAI	Damage	IIIJUI y	гасаі	TOtal	Damage	Injury	гасаг	TOtal	Total
Total of All Crashes	22	2	0	24	24	1	0	25	22	5	0	27	76
Involving Pedestrians		0	0	0		0	0	0		1	0	1	1
Involving Bicycles		0	0	0		0	0	0		0	0	0	0

Pedestrian Injury: Pedestrian was struck by vehicle traveling at low speed while he was skateboarding on SB shoulder of US13 about 50 ft south of the intersection. Injury comprised a 2.5 inch laceration on right knee.

#### Intersection of SR10 and Old Camden Road

	April 1, 2012 to March 31, 2013							, 2014	April 1, 20	3-Year			
	Property	Inium	Fatal	Total	Property	Inium	Fatal	Total	Property	loium.	Fa+al	Total	Grand
	Damage	Injury	Fatal	Total	Damage	Injury	Fatal	Total	Damage	Injury	Fatal	Total	Total
Total of All Crashes	7	3	0	10	6	0	0	6	4	0	0	4	20
Involving Pedestrians		0	0	0		0	0	0		0	0	0	0
Involving Bicycles		0	0	0		0	0	0		0	0	0	0

#### Intersection of US13 and US13Alt

	April 1, 2	012 to N	1arch 31	, 2013	April 1, 2	013 to N	1arch 31	, 2014	April 1, 20	3-Year			
	Property	Injuny	Fatal	Total	Property	Injury	Fatal	Total	Property	Iniurv	Fatal	Total	Grand
	Damage	Injury	гасаі	TOtal	Damage	Hijury	гасаі	TOtal	Damage	ilijury	ratai	TOtal	Total
Total of All Crashes	10	3	0	13	6	0	0	6	3	3	0	6	25
Involving Pedestrians		0	0	0		0	0	0		0	0	0	0
Involving Bicycles		0	0	0		0	0	0		0	0	0	0

#### **SR10 Pathway Concept: 3-Year Crash Tables**

SR10: Segment from Gateway Boulevard to US13

	April 1, 2	012 to N	1arch 31	, 2013	April 1, 2	013 to N	1arch 31	, 2014	April 1, 2	, 2015	3-Year		
	Property	Injuny	Fatal	Total	Property	Injury	Fatal	Total	Property	Injury	Fatal	Total	Grand
	Damage	Injury	гасаі	TOtal	Damage	ilijury	ratai	TOtal	Damage	ilijury	ratai	TOtal	Total
Total of All Crashes	47	5	0	52	39	10	2	51	22	9	0	31	134
Involving Pedestrians		0	0	0		0	0	0		0	0	0	0
Involving Bicycles		0	0	0		0	0	0		0	0	0	0

SR10, E Camden-Wyoming Avenue: Segment from US13 to US13 Alt

	April 1, 20	012 to N	/larch 31	, 2013	April 1, 2	013 to N	1arch 31	, 2014	April 1, 2	, 2015	3-Year		
	Property	Injury	Fatal	Total	Property	Iniurv	Fatal	Total	Property	Iniurv	Fatal	Total	Grand
	Damage	ilijury	Гасаі	TOtal	Damage	ilijury	гасаі	TOtal	Damage	ilijury	гасаі	TOtal	Total
Total of All Crashes	12	1	0	13	16	3	0	19	3	0	0	3	35
Involving Pedestrians		0	0	0		0	0	0		0	0	0	0
Involving Bicycles		0	0	0		0	0	0		0	0	0	0

#### Old Camden Road: Segment from SR10 ( E Camden-Wyoming Avenue) to US13

	April 1, 2	012 to N	1arch 31	, 2013	April 1, 2	013 to N	1arch 31	, 2014	April 1, 20	3-Year			
	Property	Injury	Fatal	Total	Property	Iniurv	Fatal	Total	Property	Injury	Fatal	Total	Grand
	Damage	ilijury	гацаі	TOtal	Damage	ilijury	гасаі	TOtal	Damage	iiijuiy	ratai	TOtal	Total
Total of All Crashes	1	0	0	1	3	1	0	4	2	2	0	4	9
Involving Pedestrians		0	0	0		0	0	0		1	0	1	1
Involving Bicycles		0	0	0		0	0	0		0	0	0	0

Pedestrian Injury: Pedestrian was injured when he was thrown off a vehicle he had jumped on to avoid being hit. The pedestrian was walking SB on the shoulder of US13 Alt when the vehicle accessed the shoulder. Injury comprised of abrasions to and bleeding of knee and palm.

# **Traffic Counts**

4134 North Dupont Highway Dover, DE, 19901

Location:: Camden, DE

Intersection: Old Camden Rd & Chapel Dr

Date: Wednesday, May 13, 2015

Counted By: Kent MPO

File Name: Old Camden & Chapel

Site Code : 00000000 Start Date : 5/13/2015

Page No : 1

Groups Printed- \	Vehicles
-------------------	----------

		1 0 55 1 0				)		CI	HAPEI	<sub>L</sub> DR		OLD CAMDEN RD						CHAPEL DR From West					
			Fr	om No	rth			F	rom E	ast			Fr	om So	uth								
	Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total	
	07:00 AM	0	55	1	0	56	0	0	0	0	0	4	6	23	0	33	0	6	8	0	14	103	
	07:15 AM	2	70	1	0	73	0	0	0	0	0	2	8	19	1	30	0	5	5	0	10	113	
	07:30 AM	1	79	0	0	80	0	0	0	0	0	3	9	26	0	38	0	8	10	0	18	136	
_	07:45 AM	2	71	2	0	75	0	0	0	0	0	5	11	29	0	45	0	7	4	0	11	131	
	Total	5	275	4	0	284	0	0	0	0	0	14	34	97	1	146	0	26	27	0	53	483	
																						ı	
	08:00 AM	6	37	0	0	43	0	0	0	0	0	2	8	23	0	33	1	4	5	0	10	86	
	08:15 AM	2	44	4	0	50	0	0	0	0	0	2	10	29	0	41	0	2	2	0	4	95	
*	** BREAK *															1							
	Total	8	81	4	0	93	0	0	0	0	0	4	18	52	0	74	1	6	7	0	14	181	
*	*** BREAK **	**																					
																						ı	
	02:30 PM	2	67	2	0	71	0	0	0	0	0	2	6	6	0	14	0	4	2	0	6	91	
_	02:45 PM	2	54	3	0	59	0	0	0	0	0	6	7	12	0	25	0	3	4_	0	7	91	
	Total	4	121	5	0	130	0	0	0	0	0	8	13	18	0	39	0	7	6	0	13	182	
	03:00 PM	5	75	1	0	81	0	0	0	0	0	2	5	32	0	39	0	2	2	0	4	124	
	03:00 PM 03:15 PM	4	56	1	0	64	0	0	0	0	0	4	3	17	0	28	0	2	5	0	4	99	
	03:13 PM 03:30 PM	4	62	2	0	65	0	0	0	0	0	2	4	11	0	17	0	0	4	0	/ 4	86	
	03:45 PM	6	63	5	0	74	0	0	0	0	0	3	4	13	0	20	0	2	5	0	7	101	
-	Total	16	256	12	0	284	0	0	0	0	0	11	20	73	0	104	0	6	16	0	22	410	
	10tai	10	230	12	U	204	U	U	U	U	U	11	20	13	U	104	U	U	10	U	22	410	
	Grand Total	33	733	25	0	791	0	0	0	0	0	37	85	240	1	363	1	45	56	0	102	1256	
	Apprch %	4.2	92.7	3.2	0		0	0	0	0		10.2	23.4	66.1	0.3	202	1	44.1	54.9	0	102	1200	
	Total %	2.6	58.4	2	0	63	0	0	0	0	0	2.9	6.8	19.1	0.1	28.9	0.1	3.6	4.5	0	8.1		

4134 North Dupont Highway Dover, DE, 19901

Location:: Camden, DE

Intersection: Old Camden Rd & Chapel Dr

Date: Wednesday, May 13, 2015

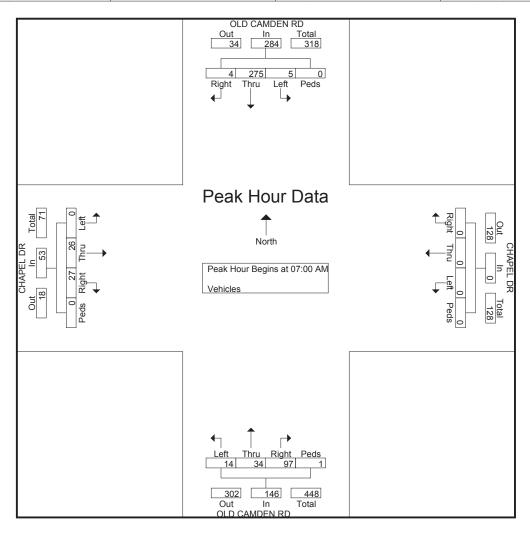
Counted By: Kent MPO

File Name: Old Camden & Chapel

Site Code : 00000000 Start Date : 5/13/2015

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											_													
		OLD	CAMD	EN R	D	CHAPEL DR						OLD CAMDEN RD						CHAPEL DR						
		Fr	om No	rth			F	rom E	ast		From South						From West							
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. To			
Peak Hour Analysis From 07:00 AM to 08:15 AM - Peak 1 of 1																								
Peak Hour for Entire Intersection Begins at 07:00 AM																								
07:00 AM	0	55	1	0	56	0	0	0	0	0	4	6	23	0	33	0	6	8	0	14	10			
07:15 AM	2	70	1	0	73	0	0	0	0	0	2	8	19	1	30	0	5	5	0	10	11			
07:30 AM	1	79	0	0	80	0	0	0	0	0	3	9	26	0	38	0	8	10	0	18	13			
07:45 AM	2	71	2	0	75	0	0	0	0	0	5	11	29	0	45	0	7	4	0	11	13			
Total Volume	5	275	4	0	284	0	0	0	0	0	14	34	97	1	146	0	26	27	0	53	48			
% App. Total	1.8	96.8	1.4	0		0	0	0	0		9.6	23.3	66.4	0.7		0	49.1	50.9	0					
PHF	.625	.870	.500	.000	.888	.000	.000	.000	.000	.000	.700	.773	.836	.250	.811	.000	.813	.675	.000	.736	.8			



Peak Hour Analysis From 07:00 AM to 08:15 AM - Peak 1 of 1

Peak Hour for l	Each Ap	proach l	Begins a	ıt:																		
	07:00 AM					07:00 AM					07:30 AM					07:00 AM						
+0 mins.	0	55	1	0	56	0	0	0	0	0	3	9	26	0	38	0	6	8	0	14		
+15 mins.	2	70	1	0	73	0	0	0	0	0	5	11	29	0	45	0	5	5	0	10		
+30 mins.	1	79	0	0	80	0	0	0	0	0	2	8	23	0	33	0	8	10	0	18		
+45 mins.	2	71	2	0	75	0	0	0	0	0	2	10	29	0	41	0	7	4	0	11		
Total Volume	5	275	4	0	284	0	0	0	0	0	12	38	107	0	157	0	26	27	0	53		
% App. Total	1.8	96.8	1.4	0		0	0	0	0		7.6	24.2	68.2	0		0	49.1	50.9	0			
PHF	.625	.870	.500	.000	.888	.000	.000	.000	.000	.000	.600	.864	.922	.000	.872	.000	.813	.675	.000	.736		

4134 North Dupont Highway Dover, DE, 19901

Location:: Camden, DE

Intersection: Old Camden Rd & Chapel Dr

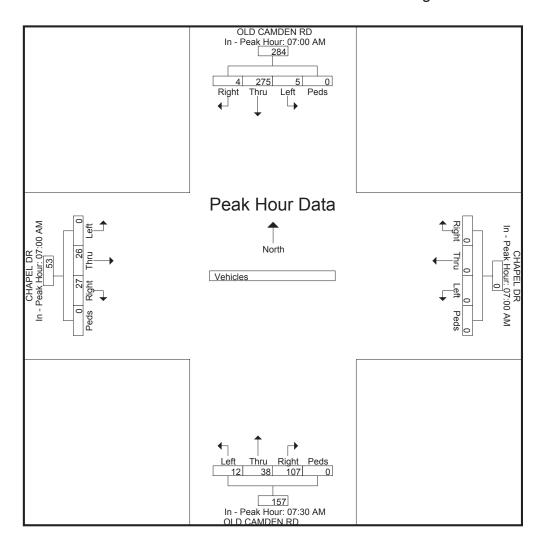
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4134 North Dupont Highway Dover, DE, 19901

Location:: Camden, DE

Intersection: Old Camden Rd & Chapel Dr

Date: Wednesday, May 13, 2015

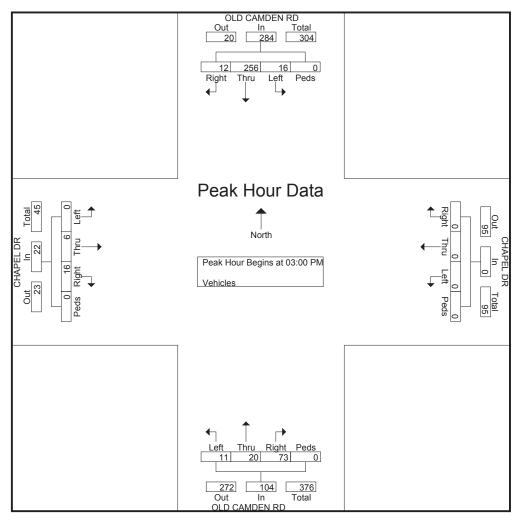
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		-	CAMD om No		D	CHAPEL DR From East						OLD CAMDEN RD From South						CHAPEL DR From West					
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total		
Peak Hour Analysis From 02:30 PM to 03:45 PM - Peak 1 of 1																							
Peak Hour for	Entire I	ntersec	tion Be	gins at	03:00 PM	I																	
03:00 PM	5	75	1	0	81	0	0	0	0	0	2	5	32	0	39	0	2	2	0	4	124		
03:15 PM	4	56	4	0	64	0	0	0	0	0	4	7	17	0	28	0	2	5	0	7	99		
03:30 PM	1	62	2	0	65	0	0	0	0	0	2	4	11	0	17	0	0	4	0	4	86		
03:45 PM	6	63	5	0	74	0	0	0	0	0	3	4	13	0	20	0	2	5	0	7	101		
Total Volume	16	256	12	0	284	0	0	0	0	0	11	20	73	0	104	0	6	16	0	22	410		
% App. Total	5.6	90.1	4.2	0		0	0	0	0		10.6	19.2	70.2	0		0	27.3	72.7	0				
PHF	.667	.853	.600	.000	.877	.000	.000	.000	.000	.000	.688	.714	.570	.000	.667	.000	.750	.800	.000	.786	.827		



Peak Hour Analysis From 02:30 PM to 03:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

Teak from for Each Approach Begins at.																				
	03:00 PM					02:30 PM					02:45 PM					02:30 PM				
+0 mins.	5	75	1	0	81	0	0	0	0	0	6	7	12	0	25	0	4	2	0	6
+15 mins.	4	56	4	0	64	0	0	0	0	0	2	5	32	0	39	0	3	4	0	7
+30 mins.	1	62	2	0	65	0	0	0	0	0	4	7	17	0	28	0	2	2	0	4
+45 mins.	6	63	5	0	74	0	0	0	0	0	2	4	11	0	17	0	2	5	0	7
Total Volume	16	256	12	0	284	0	0	0	0	0	14	23	72	0	109	0	11	13	0	24
% App. Total	5.6	90.1	4.2	0		0	0	0	0		12.8	21.1	66.1	0		0	45.8	54.2	0	
PHF	.667	.853	.600	.000	.877	.000	.000	.000	.000	.000	.583	.821	.563	.000	.699	.000	.688	.650	.000	.857

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