

# **FINAL PHASE I ARCHAEOLOGICAL SURVEY CARTER ROAD**

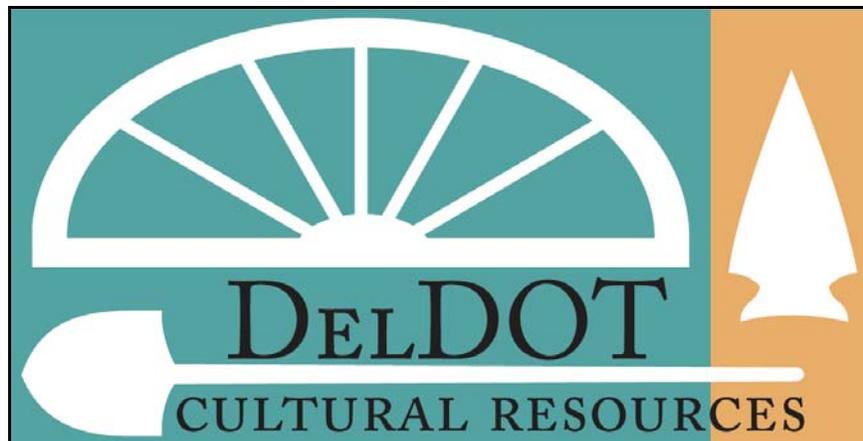
**Prepared for:**

**United States Department of Transportation  
Federal Highway Administration  
300 South New Street, Suite 2102  
Dover, DE 19904**

**Prepared by:**

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## Archaeological Survey Report Form

(For use when NO archaeological sites were identified; see *Guidelines and Instructions*.)

1. **Report title:** Phase I Archaeological Survey Report Carter Road
2. **Date:** 9/8/2009
3. **Author(s):** David S. Clarke and Kevin Cunningham
4. **Consulting firm name and address:** N/A
5. **Client agency:** Delaware Department of Transportation

### LOCATION

6. **County (check as many as apply):**  New Castle  Kent  Sussex
7. **Nearest town(s):** Smyrna
8. **Physiographic and geographic zone(s):** Drainage Divide and Upper Peninsula

### PROJECT DESCRIPTION

9. **Dates of fieldwork:** 6/23/09 and 6/30/09
10. **Size of area covered: unit used:**  acres  hectares  
**project area:** 14.40 **surveyed area:** 1.21
11. **Project description (describe location and nature of project):** While the geography of the portion of Smyrna within the APE reflects earlier agricultural landuse, Smyrna is primarily reflective of the theme of Urbanization and Early Suburbanization (as defined in the Delaware Comprehensive Historic Preservation Plan). The APE features a number of property types from the late nineteenth and early to mid twentieth centuries which are directly related to that theme (Morin et al. 2002). Carter Road (Road 137) is a two lane, north-south, urban major collector located within the Town of Smyrna and Kent County, Delaware. It extends from Wheatleys Pond

Road (Route 300) in the north to Sunnyside Road (Road 90) in the south through a primarily residential area. The Carter Road study corridor is approximately 1.2 miles long. The recommended Carter Road Improvements will involve the widening of Carter Road between Sunnyside Road and Wheatleys Pond Road. The new typical section consists of two eleven-foot lanes (currently 21 feet wide), two five-foot shoulders (currently none), curb (currently none), and sidewalk on one or both sides (currently none). From Wheatleys Pond Road to South Street, the sidewalk is proposed along the west side of Carter Road. From Mill Creek south to Sunnyside Road, the sidewalk is proposed along the east side of Carter Road. The intersection of Carter Road and Sunnyside Road will be widened to include auxiliary turning lanes. The intersection of Carter Road and Wheatleys Pond Road will also be improved to include separate right and left turn lanes. The project will also address drainage, and safety improvements. Closed drainage is recommended through the entire length of the project with the need for up to four stormwater basins along the corridor. Within the APE, there are only three areas that required field testing. The rest of the APE impacts will occur in disturbed areas or are within the existing road (ex. stripping, repavement, etc...). After background research was complete only three storm water management ponds were concluded to have any archaeological potential. Storm water management pond one, in front of the Smyrna Swim Club, is a residential lawn, the resident being the swim club. Storm water management pond two is across the street from Manor Drive along Carter Road and resides within an agricultural field (no crop was present when tested). Storm water management pond three is at the corner of Carter Road and Sunnyside Road in the back yard of property K03866.

## RESEARCH DESIGN

12. **Survey objectives:** To determine the presence or absence of any Archaeological sites within the defined Area of Potential Effect (APE).
13. **Survey methods (describe both field and background research methods):** Prior to fieldwork, background research commenced at both DeIDOT and DHCA to determine the archaeological potential of the APE. Background research consisted of researching, historic maps, aerial photographs, CRM reports, NHRP files, DHCA site files, and historic / prehistoric contexts. After multiply vehicle and pedestrian surveys of the APE, only 3 SWM ponds were determined to have any Archaeological potential, the rest of the project was disturbed roadside and preexisting SWM pond locations. Fieldwork consisted of 20 shovel test pits (STP) between 50 and 60 cm in diameter spaced between 10 and 15 meters apart. The 20 STP's were broken up into 3 distinct areas SWM pond 1 was STPs 1-12, SWM pond 2 was STPs 13-16, and SWM 3 was STPs 17-20. Shovel test pits were dug at least 10 cm into culturally sterile soil, below the A/B horizon interface, and screened through 0.25 inch mesh hardware cloth. Photographs were taken of the areas and example STP's. Data regarding soil texture, color, depth of any cultural materials, and any soil disturbance was recorded on DeIDOT excavation forms.
14. **Expected site types for this area (cite earlier surveys & known nearby resources, information from historic maps or research):** Based on the background research there was a moderate potential for Prehistoric Archaeological sites to be found in the APE. This is due to environmental factors such as proximity to water, Mill Creek, and other topographic features.

Based on the background research there was a moderate potential for Historic Archaeological sites to be found in the APE. This is due to known Historic Architectural (standing structures) near / adjacent to the APE that may have Archaeological components associated with them, attachments B and H. This was also confirmed via detailed historic map and photo research, attachment D.

## RESULTS and RECOMMENDATIONS

15. **Fieldwork (describe survey; add maps as needed):** See attachments C and F
16. **Artifacts (describe any found; identify location; explain why determined not to be a site):** See attachment F for a complete artifact list and I for a sample photograph. It is the opinion of the authors that the artifacts found during this project consists of isolated finds, modern and historic roadside debris, and field scatter. Specifically in storm water management pond one the artifacts consisted of roadside debris from Carter Road and field scatter possible associated with K03867 a mid to late 19<sup>th</sup> century house with outbuildings, K00122 Bannister Hall / Barnyard House an 1866 Victorian Country Mansion, or K03934 a mid to late 19<sup>th</sup> century house with outbuildings. Storm water management pond two's artifacts again consisted of roadside debris associated with Carter Road and field scatter possible associated with K03864 an 1870 house with outbuildings or K03863 an early to mid 19<sup>th</sup> century agricultural complex. Storm water management pond three's artifacts consisted of field scatter possible associated with K03866 an 1940 house with outbuildings, or K03864 an 1870 house with outbuildings.
17. **Recommendations:** No Archaeological sites were identified, and thus no additional archaeological work is recommended. It is also the opinion of the authors that the artifacts not be curated.

## ATTACHMENTS

18. **Attachments checklist:**
  - a.  **bibliography**
  - b.  **location map (USGS or equivalent)**
  - c.  **detailed map(s) (project plans and/or field survey map)**
  - d.  **historic map(s) (list)** 1954 Aerial, 1937 Aerial, 1868 Beers
  - e.  **photographs of general project/surveyed area**
  - f.  **table of collection units and/or excavated tests**
  - g.  **soils map(s)**
- Others (list, if any):**
  - h. Table of sample cultural resources within 0.5 miles of the APE
  - i. Artifact photographs

# Attachments

## A. Bibliography

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**F. Table of results**

**SHOVEL TEST FORM**

**PROJECT NAME** Carter Road      **PROJECT NUMBER** 23-016-01

**DATE**                      **6/23/09**                      **STP NUMBER 1**

**E**                      18447045                      **N**      4349066

**LOCATION**                      15 meters SW from STP 2

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	9	Loam	7.5 YR 4/3	coal discard 1 colorless bottle glass
9	24	Clay Loam	5YR 5/8	NCM

**STP NUMBER 2**

**E**      18447036                      **N**      4349055

**LOCATION**                      15 meters SW from STP 3

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	12	Loam	7.5 YR 4/3	1 whiteware
12	24	Clay Loam	5YR 5/8	NCM

**STP NUMBER 3**

**E**                      18447023                      **N**      4349046

**LOCATION**                      10 meters NW from Telephone Pole near Station 38+50

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	17	Loam	7.5 YR 4/3	1 brick, 2 amber bottle glass, 4 colorless bottle glass, 1 colorless bottle glass embossed "...ER..."

17	29	Clay Loam	5YR 5/8	NCM
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**STP NUMBER 4**

**E** 18447039 **N** 4349037

**LOCATION** 15 meters SE from STP 1

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	20	Loam	7.5 YR 4/3	1 whiteware 4 colorless bottle glass
20	28	Clay Loam	5YR 5/8	NCM

**STP NUMBER 5**

**E** 18447048 **N** 4349049

**LOCATION** 15 meters NW from STP 4

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	12	Loam	7.5 YR 4/3	NCM
12	25	Clay Loam	5YR 5/8	NCM

**STP NUMBER 6**

**E** 18447056 **N** 4349057

**LOCATION** 15 meters NW from STP 5

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	10	Loam	7.5 YR 4/3	NCM, Roots
10	22	Clay Loam	5YR 5/8	NCM, Roots

**STP NUMBER 7**

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**E** 18447065 **N** 4349047

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**LOCATION** 15 meters SE from STP 6

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	13	Loam	7.5 YR 4/3	coal discard, 1 slag 1 brick, 1 wire nail
13	29	Clay Loam	5YR 5/8	NCM

**STP NUMBER 8**

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**E** 18447057 **N** 4349047

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**LOCATION** 15 meters from STP 7

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	13	Loam	7.5 YR 4/3	1 olive bottle glass
13	22	Clay Loam	5YR 5/8	NCM

**STP NUMBER 9**

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**E** 18447048 **N** 4349025

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**LOCATION** 15 meters SW from STP 8

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	17	Loam	7.5 YR 4/3	3 whiteware
17	27	Clay Loam	5YR 5/8	NCM

**STP NUMBER 10**

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**E** 18447060 **N** 4349016

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**LOCATION** 15 meters SW from STP 9

DEPTH BEGIN	CM END	SOIL CLASSIFICATION	MUNSELL COLOR	CULTURAL MATERIAL
0	15	Loam	7.5 YR 4/3	coal discard 1 colorless plastic 1 milk glass tile 1 whiteware
15	21	Clay Loam	5YR 5/8	NCM

**STP NUMBER 11**

**E** 18447069 **N** 4349028

**LOCATION** 15 meters NE from STP 10

DEPTH BEGIN	CM END	SOIL CLASSIFICATION	MUNSELL COLOR	CULTURAL MATERIAL
0	11	Loam	7.5 YR 4/3	coal discard, 2 brick 1 colorless window glass 1 colorless windshield glass
11	26	Clay Loam	5YR 5/8	NCM

**STP NUMBER 12**

**E** 18447076 **N** 4349037

**LOCATION** 15 meters NE from STP 11

DEPTH BEGIN	CM END	SOIL CLASSIFICATION	MUNSELL COLOR	CULTURAL MATERIAL
0	14	Loam	7.5 YR 4/3	metal and coal discard
14	26	Clay Loam	5YR 5/8	NCM

**DATE 6/30/09 STP NUMBER 13**

**E** 18447593 **N** 4348581

**LOCATION** 45 feet NW of the electrical box

DEPTH BEGIN	CM END	SOIL CLASSIFICATION	MUNSELL COLOR	CULTURAL MATERIAL
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0	11	Loam	7.5 YR 4/3	1 colorless window glass
11	29	Clay Loam	5YR 5/8	NCM

**STP NUMBER** 14

**E** 18447598 **N** 4348586

**LOCATION** 10 meters NE of STP 13

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	9	Loam	7.5 YR 4/3	NCM
9	22	Clay Loam	5YR 5/8	NCM

**STP NUMBER** 15

**E** 18447602 **N** 4348592

**LOCATION** 10 meters NE of STP 14

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	10	Loam	7.5 YR 4/3	NCM
10	26	Clay Loam	5YR 5/8	NCM

**STP NUMBER** 16

**E** 18447605 **N** 4348597

**LOCATION** 10 meters NE of STP 15

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	10	Loam	7.5 YR 4/3	3 amber glass 1 colorless bottle glass 1 colorless molten glass
10	19	Clay Loam	5YR 5/8	NCM
19	26	Sand / Gravel Possible Columbia	5 YR 5/8	NCM

		Formation		
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**STP NUMBER 17**

**E** 18447782 **N** 4348323

**LOCATION** 30 feet NW of tree on plans

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	18	Loam	7.5 YR 4/3	coal discard
18	25	Clay Loam	5YR 5/8	NCM

**STP NUMBER 18**

**E** 18447790 **N** 4348330

**LOCATION** 10 meters NE of STP 17

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	14	Loam	7.5 YR 4/3	NCM
14	20	Clay Loam	5YR 5/8	NCM

**STP NUMBER 19**

**E** 18447797 **N** 4348336

**LOCATION** 10 meters NE of STP 18

<b>DEPTH</b>	<b>CM</b>	<b>SOIL</b>	<b>MUNSELL</b>	<b>CULTURAL</b>
<b>BEGIN</b>	<b>END</b>	<b>CLASSIFICATION</b>	<b>COLOR</b>	<b>MATERIAL</b>
0	15	Loam	7.5 YR 4/3	Coal Discard
15	22	Clay Loam	5YR 5/8	NCM

STP NUMBER 20

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E 18447805

N 4348342

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LOCATION 10 meters NE of STP 19

DEPTH	CM	SOIL	MUNSELL	CULTURAL
BEGIN	END	CLASSIFICATION	COLOR	MATERIAL
0	14	Loam	7.5 YR 4/3	1 wire nail, 1 amber bottle glass 1 rose colored flat glass
14	20	Clay Loam	5YR 5/8	NCM

### G. Soil Survey Map

Kent County, Delaware (DE001)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DoB	Downer sandy loam, 2 to 5 percent slopes	107.1	47.0%
DoC	Downer sandy loam, 5 to 10 percent slopes	32.9	14.5%
DuB	Downer-Urban land complex, 0 to 5 percent slopes	11.4	5.0%
GrA	Greenwich loam, 0 to 2 percent slopes	24.0	10.5%
GrB	Greenwich loam, 2 to 5 percent slopes	19.5	8.6%
LO	Longmarsh and Indiantown soils, frequently flooded	5.4	2.4%
PyA	Pineyneck loam, 0 to 2 percent slopes	9.7	4.3%
UzC	Udorthents, 0 to 10 percent slopes	9.9	4.4%
W	Water	8.0	3.5%
Totals for Area of Interest		228.0	100.0%

Soil Survey Map Legend, USDA Web Soil Survey

## H. Cultural Resources within a 1/2 mile of the project APE

<b>CRS # Kent</b>	<b>Description</b>
K07070	1950 house
K07063	1930 house
K03936	1890 Folk Victorian Farm House
K07061	1925 L & R Mini Mart/Mobile Gas Station Car Dealership
K03897	Demolished house surveyed in 1981
K07062	1950 house
K03898	1926 house
K07066	1935-1940 house
K07068	1946 house
K07067	1945 house
K07064	1948 house
K07065	1948 house
K07069	1946 house
K00122	Bannister Hall / Barnyard House, 1866 Victorian Country Mansion
K03933	Mid to late 19 <sup>th</sup> century house and outbuildings
K03870	1860 house and outbuildings
K03912	Mid to late 19 <sup>th</sup> century house and outbuildings
K03934	Mid to late 19 <sup>th</sup> century house and outbuildings
K03868	1940 / 1950 house
K03869	1940 / 1950 house
K03866	1940 house and outbuildings
K03864	1870 house and outbuildings
K03865	Early to mid 19 <sup>th</sup> century house and outbuildings
K03926	Moore House, mid 19 <sup>th</sup> century house and outbuildings
K03867	Mid to late 19 <sup>th</sup> century house and outbuildings
K03863	Agricultural complex early to mid 19 <sup>th</sup> century
K00156	The Thomas England House, 1853 temple fronted Greek Revival house

## I. Artifact Photograph



Photograph of Sample Artifacts; see table below for STP and description,  
David S. Clarke 9/23/09

<b>Artifact #</b>	<b>STP #</b>	<b>Description</b>
1	10	Milk glass tile
2	20	Wire nail
3	7	Wire nail
4	4	Colorless bottle glass
5	9	Whiteware
6	9	Whiteware
7	3	Brick
8	20	Rose colored flat glass
9	7	Slag
10	20	Amber bottle glass