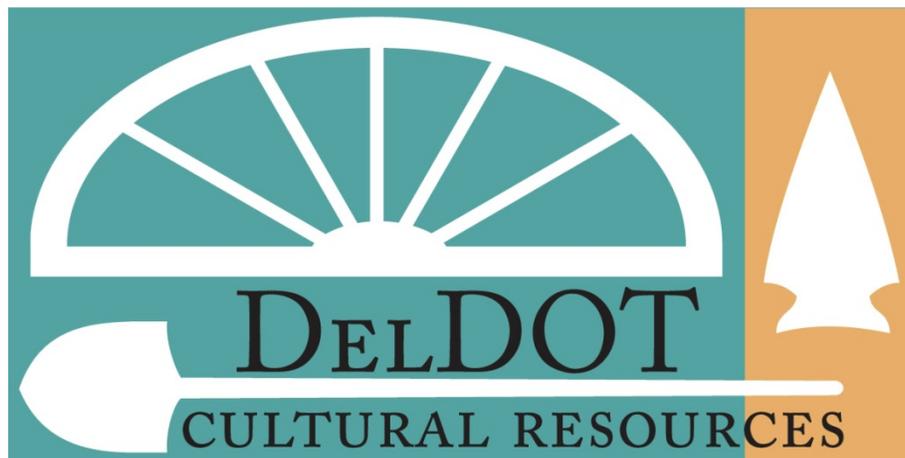


**FINAL PHASE I ARCHAEOLOGY SURVEY REPORT
AT SR 72 AND OLD BALTIMORE PIKE,
NEW CASTLE COUNTY, DELAWARE**



Prepared by:

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June 2015



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Archaeological Survey Report Form

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

- Report title:** Phase I Archaeological Survey of Temporary Construction Easement Area at HEP SR 72 and Old Baltimore Pike
- Date:** 5/26/2015
- Author(s):** Heidi E. Krofft and David S. Clarke
- Consulting firm name and address:** N/A
- Client agency:** Delaware Department of Transportation

LOCATION

- County (check as many as apply):** New Castle Kent Sussex
- Nearest town(s):** Glasgow, Delaware
- Physiographic and geographic zone(s):** Drainage Divide / Upper Peninsula

PROJECT DESCRIPTION

- Dates of fieldwork:** March 31, 2015
- Size of area covered: unit used:** acres hectares
project area: 0.20 **surveyed area:** 0.20
- Project description (describe location and nature of project):** The HEP, SR 72 and Old Baltimore Pike Intersection Improvements project was identified by the 2011 Hazard Elimination Program due to high crash rates. Proposed improvements at this intersection include reconstructing medians on SR 72 and Old Baltimore Pike in order to permit a left turn entrance to Royal Farms from southbound 72 and eliminate left turn entrances from eastbound Old Baltimore Pike. A second left turn land will also be added to Old Baltimore Pike eastbound to add additional queuing space.

The majority of the Limits of Construction for the intersection improvements are located within the existing roadway. However, in March of 2015, DeIDOT Project Engineers approached DeIDOT archaeologists with the need for additional Limits of Construction/Temporary Construction Easement area on the southwest corner of the intersection for access and construction of a drainage swale along Old Baltimore Pike. DeIDOT archaeologists conducted a Phase I (investigation) survey of the additional LOC/TCE area to identify any archaeological resources.

At the time of the phase I archaeology work, the survey area was a mowed field. It is bounded on the north by Old Baltimore Pike, on the west by the railroad corridor, and to the south by additional mowed field associated with the Dayett House. The survey area is located approximately 100 feet from the intersection.

RESEARCH DESIGN

12. Survey objectives: The goal of the survey was to determine if any archaeological resources were present within the defined APE. Since the area is located within a Historic District with many known resources in the area, there was a high potential for both prehistoric and historic resources.

13. Survey methods (describe both field and background research methods): Background research was conducted on the project area prior to construction. This included locating previously identified archaeological sites in or near the project area as well as an examination of historic maps to assess the potential for historic resources.

A pedestrian survey of the project area was conducted prior to fieldwork. The area was a mowed field with no visible disturbances or potential features. A total of four shovel test pits was excavated at 50 foot intervals across the survey area. Excavated shovel test pits measured 16 inches in diameter and penetrated sterile subsoil an average of 0.5 feet or modern fill to a depth of at least 1.5 feet. All soils were screened through 1/4 inch mesh.

14. Expected site types for this area (cite earlier surveys & known nearby resources, information from historic maps or research): Given the background research conducted, the survey area was considered to have a high potential for historic resources and a high potential for prehistoric resources.

The survey area is located within the Cooch's Bridge Historic District and such has a high potential for archaeological resources associated with the Cooch's Bridge Battlefield and they Dayett House. See the National Register Nomination and the Historic Context Report for the Cooch-Dayett Mill and Cooch's Bridge (Gollanek 2000). A previous report for DeIDOT also provides the history and previous archaeology work conducted at the intersection (Catts et al. 1989).

In addition, several prehistoric sites have previously been identified in the area. Given

the proximity to the Christiana River there is also a high potential for prehistoric archaeology sites (Varisco and Custer 1992).

RESULTS and RECOMMENDATIONS

- 15. Fieldwork (describe survey; add maps as needed):** A total of four shovel tests was excavated at 50 foot intervals across the survey area. The soil stratigraphy varried across the survey area but all shovel test pits consisted of modern fill over subsoil. See figures in attachments c, e, and f.
- 16. Artifacts (describe any found; identify location; explain why determined not to be a site):** None of the shovel tests were positive for prehistoric or historic material. One fragment of modern brick and four pieces of plastic were recovered from STP 1 and two fragments of modern brick were recovered from STP 2. All artifacts were part of the modern fill likely associated with previous road work to Old Baltimore Pike. Several of the fill layers also contained pieces of trap rock and tar chips confirming that these layers are modern fill. See the STP catalog in attachment f.
- 17. Recommendations:** No archaeological resources were identified and testing confirmed that this area has been previously disturbed and consists of modern fill above sterile subsoil. Thus no additional archaeological work is recommended.

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) Rea and Price 1849 & Beers 1859
 - e. photographs of general project/surveyed area
 - f. table of collection units and/or excavated tests
 - g. soils map(s)

Others (list, if any):

ATTACHMENTS

a. Bibliography

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2015 Aerial Photography with currently available CRS data. Electronic document, <http://www.chris.delaware.gov>, accessed April 2015.
- Gollanek, Eric F.
2000 *Flour, Feed, Water, and War: Three Hundred Years of Living and Working at the Cooch-Dayett Mill Cooch's Bridge, New Castle County, Delaware*. Historic Context Report for the State of Delaware Division of Historic and Cultural Affairs. University of Delaware.
- Rea, Samuel M. and Jacob Price
1849 *Map of New Castle County, Delaware*.
- Soil Survey
2009 Natural Resources Conservation Service, United States Department of Agriculture. Web soil survey. Electronic document, <http://websoilsurvey.nrcs.usda.gov/>, accessed April 2015.
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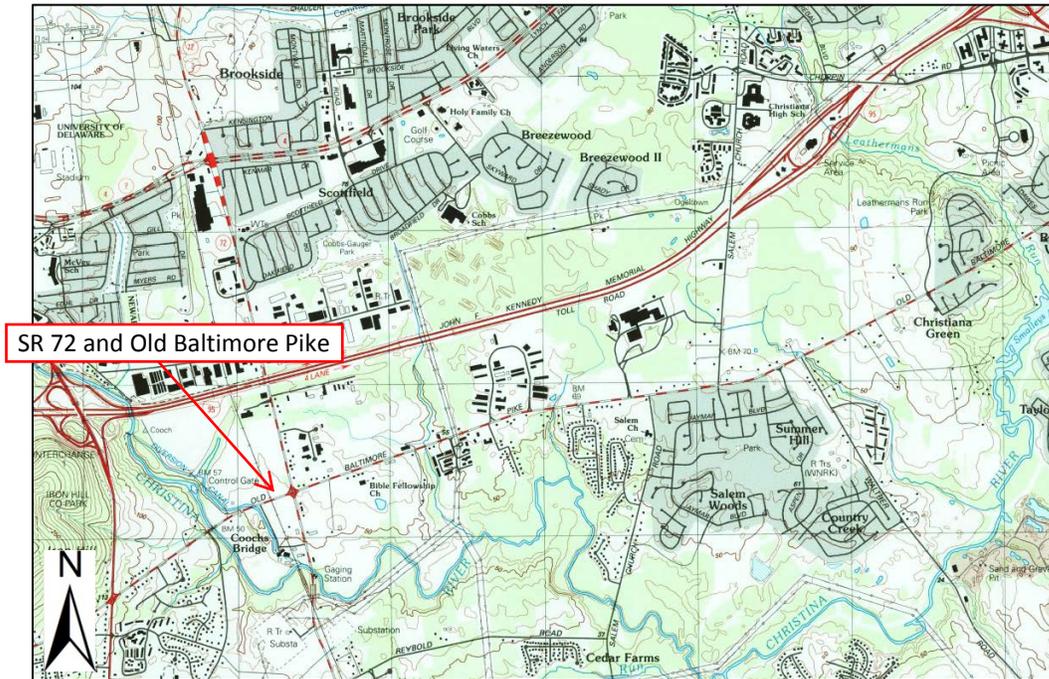
Varisco, Robert A. and Jay Custer

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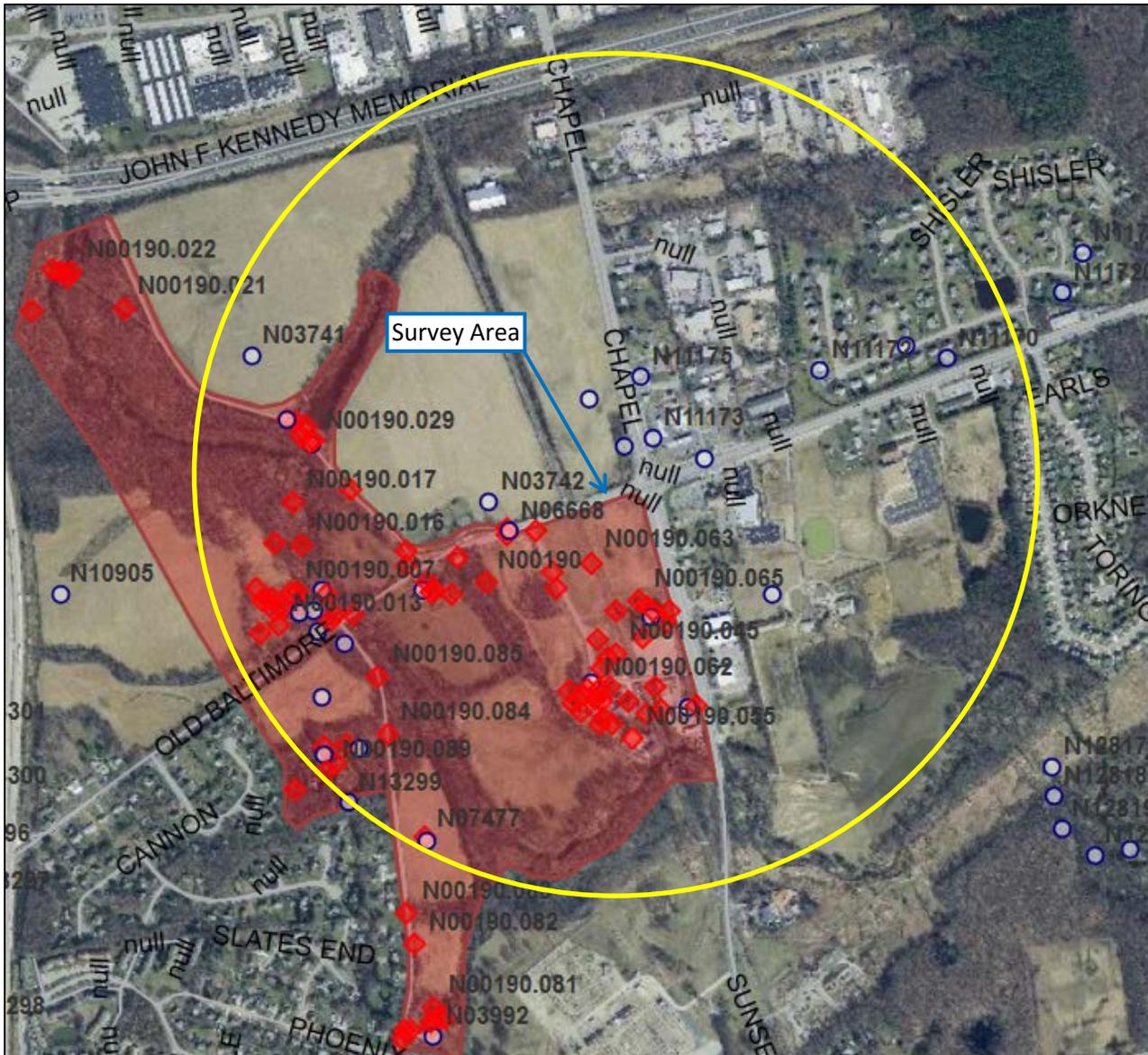
b. Location Maps



Site Location within the state of Delaware.



Site Location on the 1993 Newark East, Delaware USGS topographic map.



Cultural Resource Survey (CRS) points located within half a mile from the survey area. (CHRIS and 2012 Aerial)

Table of CRS Points within half a mile from the survey area.

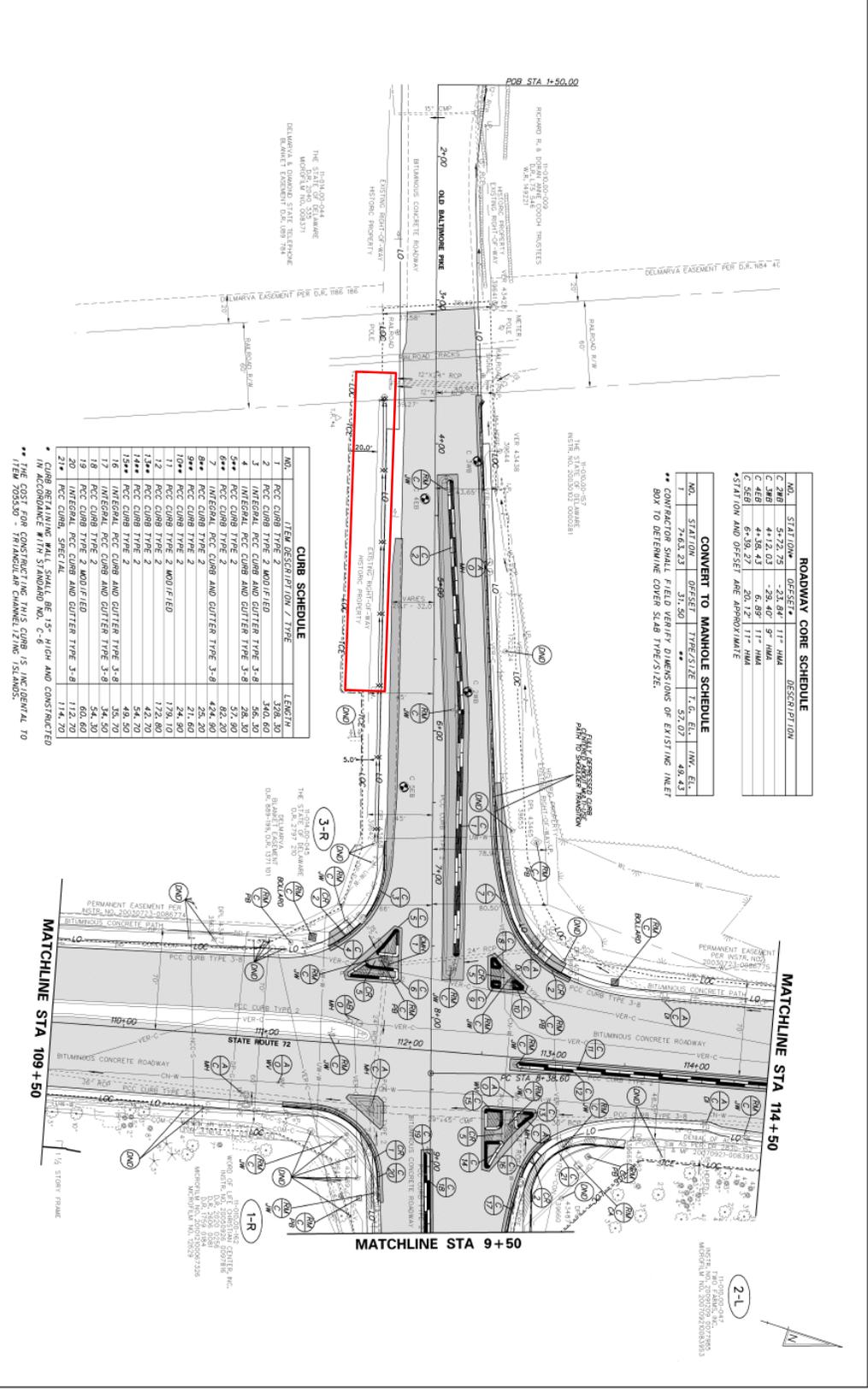
CRS No.	Archaeology Site No.	Description
N11170		OBP Industrial Park (1925)
N11712	7NC-D-124	Dehorty Site
N11172		Bryson (Groves) Farm
N11716	7NC-D-138	Vernon Comly Site
N11173		Dwelling (1885)
N11175		Pilgrim Tabernacle Church
N11171		Comly Farm
N11174	7NC-D-141	Leach House
N11717	7NC-D-139	Cooch Tenancy
N03742	7NC-D-001	Cooch's Bridge Site
N04290		Bridge 1-337

N04288		Bridge 1-336 (Cooch's Bridge)
N01469	7NC-D-259	Cooch House
N01467		Patterson Mill
N12614		Bridge 1-333
N12615		Bridge 1-334
N03741	7NC-D-040	
N06668		Bridge 1-672
N03659	7NC-D-260	Dwelling
N12816	7NC-D-157	Cooch's Bridge Field Site
N03743	7NC-D-039	Archaeology site
N01087		Baynard House
N12616		Bridge 1-346
N13299		dwelling
N07477	7NC-D-261	Artillery Park
N11176		Cooch Tenant House
N01468	7NC-D-262	Dayett Mill
N01470		Dayett House
N00190		Cooch's Bridge Historic District

C. Project Maps and Plans



Location of the survey area and STPs. (2013 Aerial)



ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET*	DESCRIPTION
C 2/B	5+72.75	-23.84'	11" HMA
C 2/B	+1+24.03	-28.60'	9" HMA
C 2/B	4+14.44	0.00'	9" HMA
C 5/B	6+36.27	20.12'	11" HMA

* STATION AND OFFSET ARE APPROXIMATE

CONVERT TO MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	I.-G. EL.	INV. EL.
1	7+63.23	31.50'	54"	57.07	48.43

** CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF EXISTING INLET BOX TO DETERMINE COVER SLAB TYPE/SIZE.

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB TYPE 2 MODIFIED	328.30
2	INTEGRAL PCC CURB AND GUTTER TYPE 3-B	56.50
3	INTEGRAL PCC CURB AND GUTTER TYPE 3-B	28.50
4	INTEGRAL PCC CURB AND GUTTER TYPE 3-B	57.90
5	PCC CURB TYPE 2	57.90
6	PCC CURB TYPE 2	462.20
7	PCC CURB TYPE 2 AND GUTTER TYPE 3-B	462.20
8	PCC CURB TYPE 2	25.20
9	PCC CURB TYPE 2	21.60
10	PCC CURB TYPE 2 MODIFIED	24.90
11	PCC CURB TYPE 2	179.10
12	PCC CURB TYPE 2	42.70
13	PCC CURB TYPE 2	54.70
14	PCC CURB TYPE 2	49.50
15	INTEGRAL PCC CURB AND GUTTER TYPE 3-B	55.20
16	INTEGRAL PCC CURB AND GUTTER TYPE 3-B	54.30
17	PCC CURB TYPE 2 AND GUTTER TYPE 3-B	54.30
18	PCC CURB TYPE 2 MODIFIED	60.60
19	INTEGRAL PCC CURB AND GUTTER TYPE 3-B	112.70
20	PCC CURB, SPECIAL	114.70
21	PCC CURB, SPECIAL	114.70

* IN ACCORDANCE WITH STANDARD NO. C-6
** THE COST FOR CONSTRUCTING THIS CURB IS INCORPORATED IN ITEM 703.50 - TRIANGULAR CHANNELIZING ISLANDS.

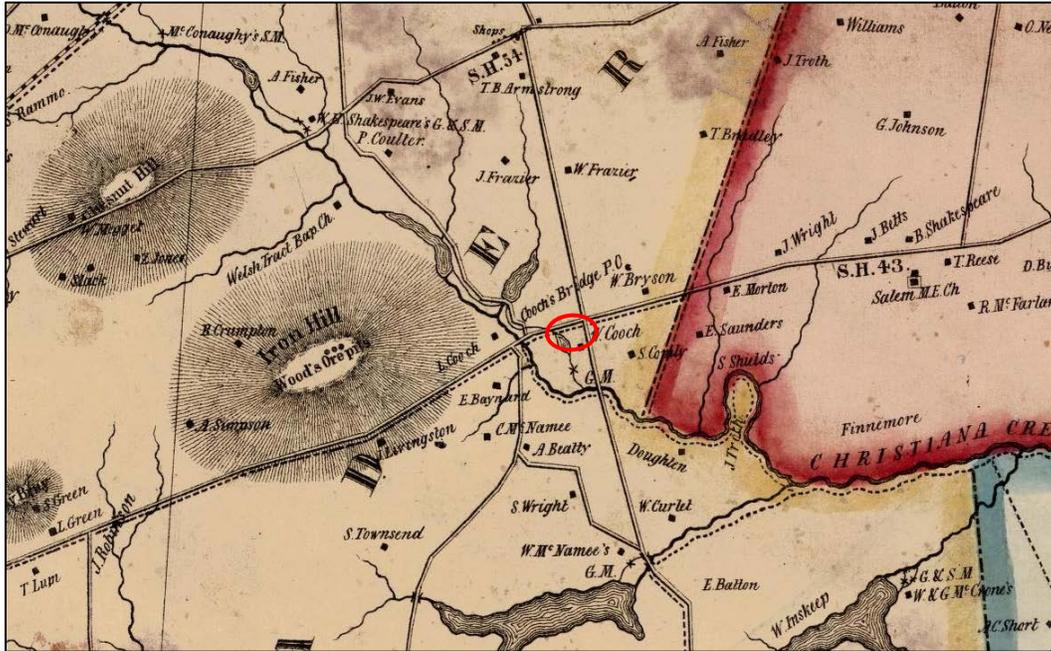
THE STATE OF DELAWARE
COUNTY OF NEW CASTLE
DEPARTMENT OF TRANSPORTATION
PROJECT NO. 72000008
SHEET NO. NA

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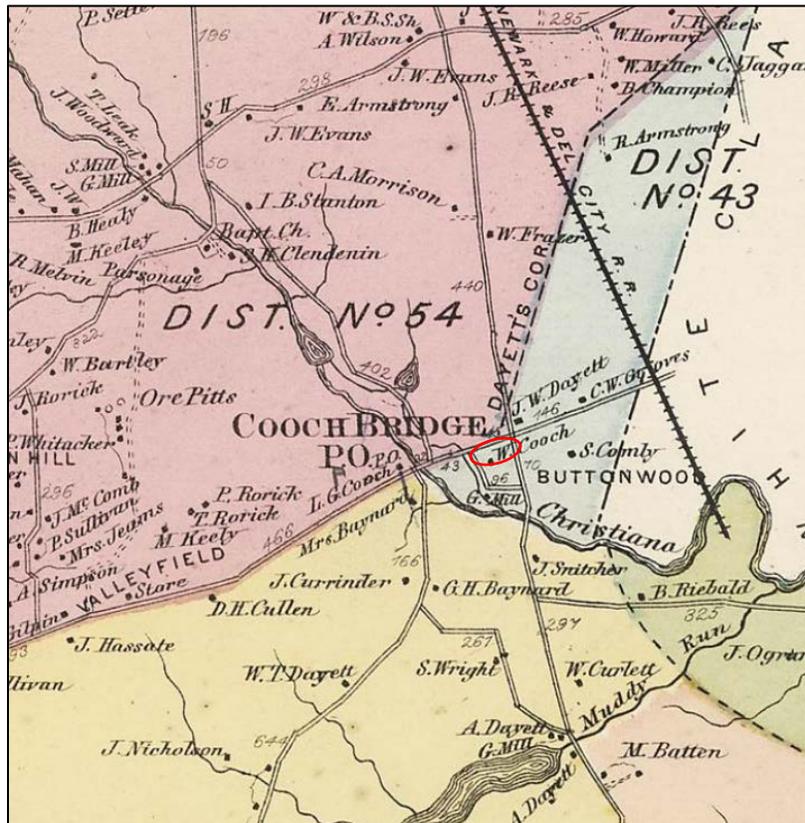
THE STATE OF DELAWARE
COUNTY OF NEW CASTLE
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PROJECT NO. 72000008
SHEET NO. NA

Project Plans showing limits of construction/temporary construction easement and survey area(red).

d. Historic Map



Map of New Castle County, Delaware, project and survey area highlighted in red (Rea and Price 1849).



Atlas of the State of Delaware, project and survey area highlighted in red (Beers 1859).

e. Photographs of the Project Area



Overall photograph of the survey area, facing west.



***Left:* Profile of STP 1, showing layers of fill over subsoil. *Right:* Profile of STP 3, showing layers of fill.**

f. Testing Results

STP	Northing	Easting	LEVEL	DEPTH (FT)	SOIL DESCRIPTION	COMMENTS
1	39 38.497	-75 43.883	1	0-0.8	10YR 3/4 silty loam	Fill / 1 piece modern brick, 4 pieces plastic
1			2	0.8-1.1	10YR 5/8 sandy sand	Fill / trap rock and tar chips
1			3	1.1-1.2	10YR 5/1 clay	Fill
1			4	1.2-1.55	10YR 4/6 sandy silt	
2	39 38.501	-75 43.873	1	0-0.6	10YR 3/4 silty loam	Fill / 2 pieces modern brick
2			2	0.6-0.9	10YR 4/1 clay silt	Fill
2			3	0.9-1.2	10YR 4/3 clay silt	Fill
2			4	1.2-1.6	10YR 4/6 sandy silt	
3	39 38.503	-75 43.863	1	0-1	10YR 3/3 silty loam	Fill
3			2	1-1.5	10YR 5/6 compact sand	Fill
4	39 38.506	-75 43.852	1	0-0.4	10YR 3/3 silty loam	Fill
4			2	0.4-1.6	10YR 4/6 sand with gravel	Fill
4			3	1.6-1.8	10YR 5/6 compact sand	Fill

g. Soil Survey Maps



New Castle County, Delaware (DE003)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
WoB	Woodstown loam, 2 to 5 percent slopes	0.2	100.0%
Totals for Area of Interest		0.2	100.0%