

**U.S. Army Corps
of Engineers**

Baltimore District

Public Notice



Maryland
Department of
the Environment

In Reply to Application Numbers:

**CORPS: CENAB-OP-RMN (MD SHA/Contract No. MO746M21-MD 97/Bridge)
2015-61139-M15**

MDE, Nontidal Wetlands and Waterways #201561139 15-NT-3200; AI75739

PN16- 40

COMMENT PERIOD: July 1, 2016 through August 19, 2016

THE PURPOSE OF THIS JOINT PUBLIC NOTICE IS TO ANNOUNCE THE SCHEDULING OF A JOINT PUBLIC HEARING, AND TO SOLICIT COMMENTS FROM THE PUBLIC ABOUT THE WORK DESCRIBED BELOW. AT THIS TIME, NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT PERMITS WILL BE ISSUED. THE CORPS/MDE HEARING WILL BE HELD AT THE FOLLOWING TIME AND LOCATION:

August 4, 2016

Rosa Parks Middle School

19200 Olney Mill Road

Olney, MD 20832

301-924-3180

<http://www.montgomeryschoolsmd.org/schools/rosaparksms>

6:00 - 7:00 PM Poster Session

7:00 PM Public Hearing

The US Army Corps of Engineers, Baltimore District (COE) and the Maryland Department of the Environment (MDE) joint public hearing provide members of the public the opportunity to present views, opinions, and information which will be considered by the COE and MDE in evaluating the permit application. The purpose of the hearing is for the COE and MDE to receive oral or written comments that will enable them to evaluate the impacts of the proposed project on the public interest. All interested parties, including representatives of Federal, State, and local governments and private individuals and organizations, are invited to be present or to be represented. Each will be given an opportunity to express their views regarding the proposed project.

Prior to the public hearing, from 6:00 pm to 7:00 pm, a poster session will be held where the public will have an opportunity to review exhibits and ask general questions of the applicant, Maryland State Highway Administration, and their representatives. Representatives from the COE and MDE will also be available during the poster session. Beginning at 7:00 pm, the formal public hearing will begin with agency statements, followed by public testimony. Please note that a time limit of three minutes per speaker may be set, depending on the number of speakers, to ensure that all interested parties have an opportunity to voice their views. The public hearings will be recorded and transcribed.

Anyone who is hearing impaired and/or is non-English speaking; who wishes to attend the public hearings should notify Mr. Jack Dinne at 410-962-6005 or in writing to his address below. All requests for an oral, sign language, or non-English language interpreter must be received by July 15, 2016. To the extent possible and feasible, an interpreter will be provided.

The COE and MDE have received and are evaluating a joint permit application as described below for Department of the Army authorization pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344) and State authorization pursuant to Title 5, Subtitle 5 (Waterway Construction) and Title 5, Subtitle 9 (Nontidal Wetlands) of the Environment Article, Annotated Code of Maryland.

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APPLICANT: Maryland State Highway Administration
Attn: Mr. Todd Nichols
707 North Calvert Street Mailstop –C-303
Baltimore, Maryland 21202

LOCATION: The proposed project is located in Brookeville, Montgomery County from approximately Brookeville Road to the entrance of the Longwood Community Center. Waterways that are to be impacted include unnamed tributaries to Meadow Branch, Meadow Branch, and Reddy Branch. These streams are classified by the State of Maryland as Use IV-P trout waters.

WORK: The Maryland State Highway Administration (MD SHA) proposes to construct a by-pass of the historic district in the town of Brookeville. The proposed by-pass is approximately 0.72 miles long from a proposed roundabout at Brookeville Road in the north to a proposed roundabout at MD 97 north of Gold Mine Road. The by-pass would be a two-lane roadway with 40 mile per hour a design speed and have two 11-foot travel lanes with an 8-foot shoulder on both sides. As part of the avoidance and minimization of impacts to waters of the U.S., including jurisdictional nontidal wetlands, SHA is proposing two bridges. MD SHA proposes a 150-foot bridge crossing over Meadow Branch (Use IV-P) and 120-foot bridge over Reddy Branch (Use IV-P) with no in-stream piers. If constructed, the current crossing of MD 97 over Reddy Branch will be relocated to connect to the northern roundabout as part of the proposed MD 97 alignment, which will cross an upstream portion of Reddy Branch. The project will permanently impact approximately 0.49 acres (19,715 square feet) of forested nontidal wetlands, 0.03 acres (1,096 square feet) of emergent nontidal wetlands, 0.99 acres (43,229 square feet) of 25-foot nontidal wetland buffer, and 1,570 linear feet (14,801 square feet) of stream channel. The project would also temporarily impact approximately 0.27 acres (11,920 square feet) of forested nontidal wetland, 0.23 acres (9,884 square feet) of 25-foot nontidal wetland buffer, and 498 linear feet (7,860 square feet) of stream channel. The project will also cause disturbance in 4.27 acres (186,206 square feet) of the 100-year floodplain. MD SHA proposes to provide compensatory mitigation for permanent impacts to Waters of the U.S. by restoring approximately 3,557 linear feet (45,523 square feet) of Reddy Branch and creating 2.12 acres (92,556 square feet) of forested nontidal wetlands and 0.28 acres (12,240 square feet) of emergent nontidal wetlands at a site located along Brighton Dam Road, approximately 1 mile downstream of the proposed bridge over Reddy Branch. The site will also create an additional 1.46 (63,541 square feet) of forested wetland, and 0.73 acres (31,728 square feet) of emergent wetland as part of the site design. The proposed work at the mitigation site will permanently impact approximately 0.15 acres (6,289 square feet) of forested nontidal wetland, 0.09 acres (3,652 square feet) of emergent nontidal wetland, and 0.64 acres (27,798 square feet) of 25-foot nontidal wetland buffer, and temporarily impact 0.12 acres (5,090 square feet) of emergent nontidal wetlands, and 0.05 acres (2,346 square feet) of 25-foot nontidal wetland buffer. The work at the mitigation site will also cause disturbance in 8.46 acres (368,325 square feet) of the 100-year floodplain. As part of the restoration efforts, approximately 42,472 cubic yards of soil/material would be removed from the proposed mitigation site. The disposal site for the soil/material has not been identified at this time. If constructed, the existing MD 97 roadway crossing over Reddy Branch may eventually be removed (as a separate project). The MD SHA/Brookeville bypass project was previously authorized by the Corps in 2004; however, that authorization expired on December 31, 2012.

All work will be completed in accordance with the enclosed plans.

PURPOSE: The project is to eliminate safety and traffic concerns associated with the 90-degree turn accompanied by a steep northbound vertical grade on MD 97 in the town of Brookeville. Increased projected traffic volumes combined with the substandard geometrics contribute to the need to improve the segment of roadway's traffic operation capacity and safety conditions.

WRITTEN COMMENTS: To be included in the official record, written comments and information provided by interested parties must be received by the COE and MDE by the closing date of this notice's comment period, August 19, 2016, to receive consideration. The mailing addresses for submission of written comments are:

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U.S. Army Corps of Engineers
Baltimore District
Attn: Mr. Jack Dinne, CENAB-OPR-M
10 South Howard Street
Baltimore, Maryland 21201

Maryland Department of the Environment
Wetlands and Waterways Program
Attn: Ms. Emily Dolbin
1800 Washington Blvd., Suite 430
Baltimore, Maryland 21230-1708

If you have any questions concerning this matter, please contact Mr. Jack Dinne, Corps at (410) 962-6005 or by email at john.j.dinne@usace.army.mil and Ms. Emily Dolbin, MDE at (410) 662-7464 ext. 1653 or by email at Emily.Dolbin@maryland.gov.

Additional project documentation can be found on the MD SHA website at:
<http://apps.roads.maryland.gov/WebProjectLifeCycle/ProjectDocuments.aspx?projectno=MO7462115>

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which may reasonably be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economic, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, and consideration of property ownership and in general, the needs and welfare of the people.

The evaluation of the impact of the work described above on the public interest will include the application of the Clean Water Act Section 404(b)(1) Guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 of the Clean Water Act.

Comments are being solicited from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps and MDE to determine whether to issue, modify, condition or deny each agency's permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments provided will become part of the public record for this action. Comments are also used to determine the overall public interest of the proposed activity.

For MDE, only those issues subject to regulation by the MDE Nontidal Wetlands and Waterway Construction Divisions (impacts to nontidal wetlands, wetland buffer, waterways, and the 100-year floodplain) will be considered in rendering a decision to grant or deny the MDE Permit. Written comments, and requests to be included on the interested persons list may be sent by August 18, 2016 to the Maryland Department of the Environment, Attn: Emily Dolbin, 1800 Washington Boulevard, Baltimore, MD 21230 or at Emily.Dolbin@maryland.gov or 410-662-7464 extension 1653. Any further notices concerning actions on the application will be provided only by mail to those persons on the interested persons list. Please refer to Subsection 5-907 of the Annotated Code of Maryland or the Code of Maryland Regulations 26.23.02 for information regarding the application process.

SECTION 401 WATER QUALITY CERTIFICATION: The applicant is required to obtain a Water Quality Certification, (WQC) in accordance with Section 401 of the Clean Water Act from MDE, the Section 401 certifying agency. Any written comments concerning the work described above which relate to the WQC must be received by the Wetlands and Waterways Program, Maryland Department of the Environment, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230-1708 within the comment period as specified above to receive consideration. MDE has a statutory limit of one year from the date of this public notice to make its decision.

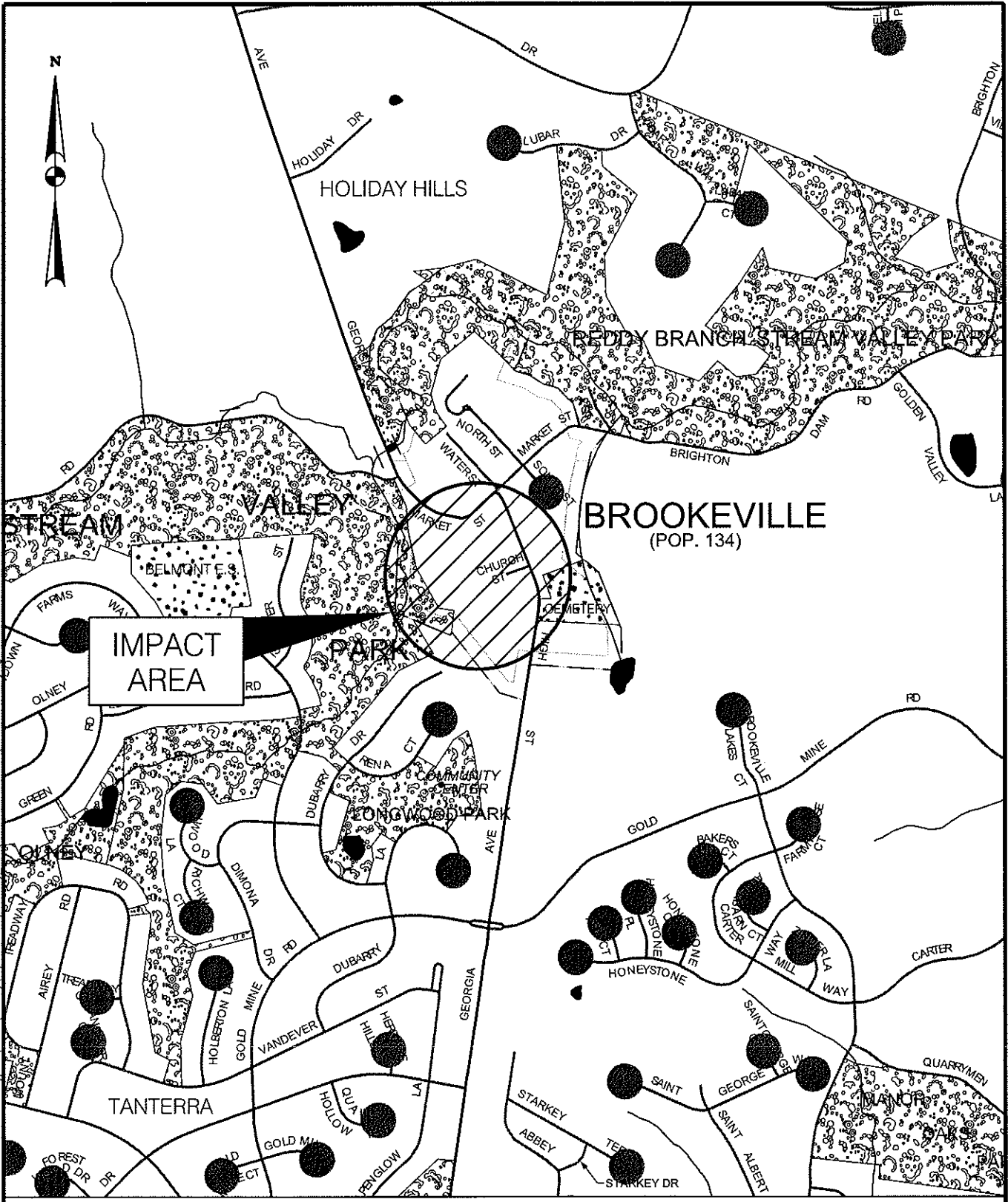
Page 4 of 4

The applicant must obtain any other State and local permits/approvals which are required for the proposed activities.

A preliminary review of this application indicates that the proposed work will not affect Federal listed threatened or endangered species or their critical habitat, pursuant to Section 7 of the Endangered Species Act, as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

Review of the latest published version of the National Register of Historic Places indicates that registered properties listed as eligible for inclusion, therein, maybe located within the limits of disturbance associated with the proposed work. On-going coordination with the Maryland Historic Trust will determine if known archeological, scientific, prehistoric, or historical data may be affected by the work to be accomplished under the requested permits.

It is requested that you communicate this information concerning the proposed work to any persons known by you to be interested, but may not have not received a copy of this public notice.



**IMPACT
AREA**

BROOKEVILLE
(POP. 134)

VICINITY MAP



**CENTURY
ENGINEERING**
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

DATE:
JUNE 2016

SCALE:
1" = 1,000'

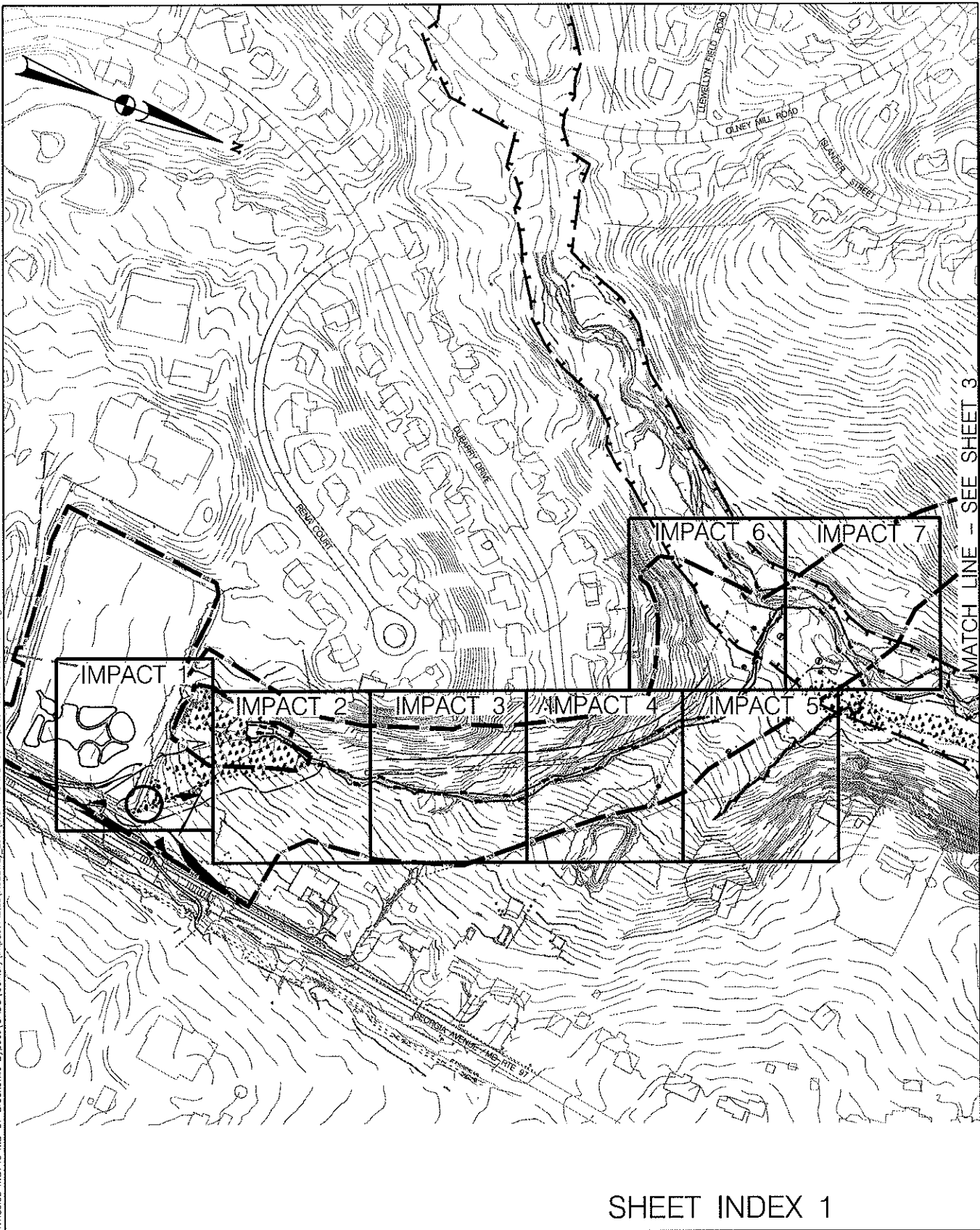
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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
BROOKEVILLE, MONTGOMERY COUNTY

CONT. NO. MO7465171 FMS NO. MO746M21 SHEET NO. 1 OF 17
PREL. TRAC. BY _____ FINAL TRAC. BY _____

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MATCH LINE - SEE SHEET 3

SHEET INDEX 1

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 ENGINEERING
 CONSULTING ENGINEERS - PLANNERS
 10710 GILROY ROAD
 HUNT VALLEY, MD 21031

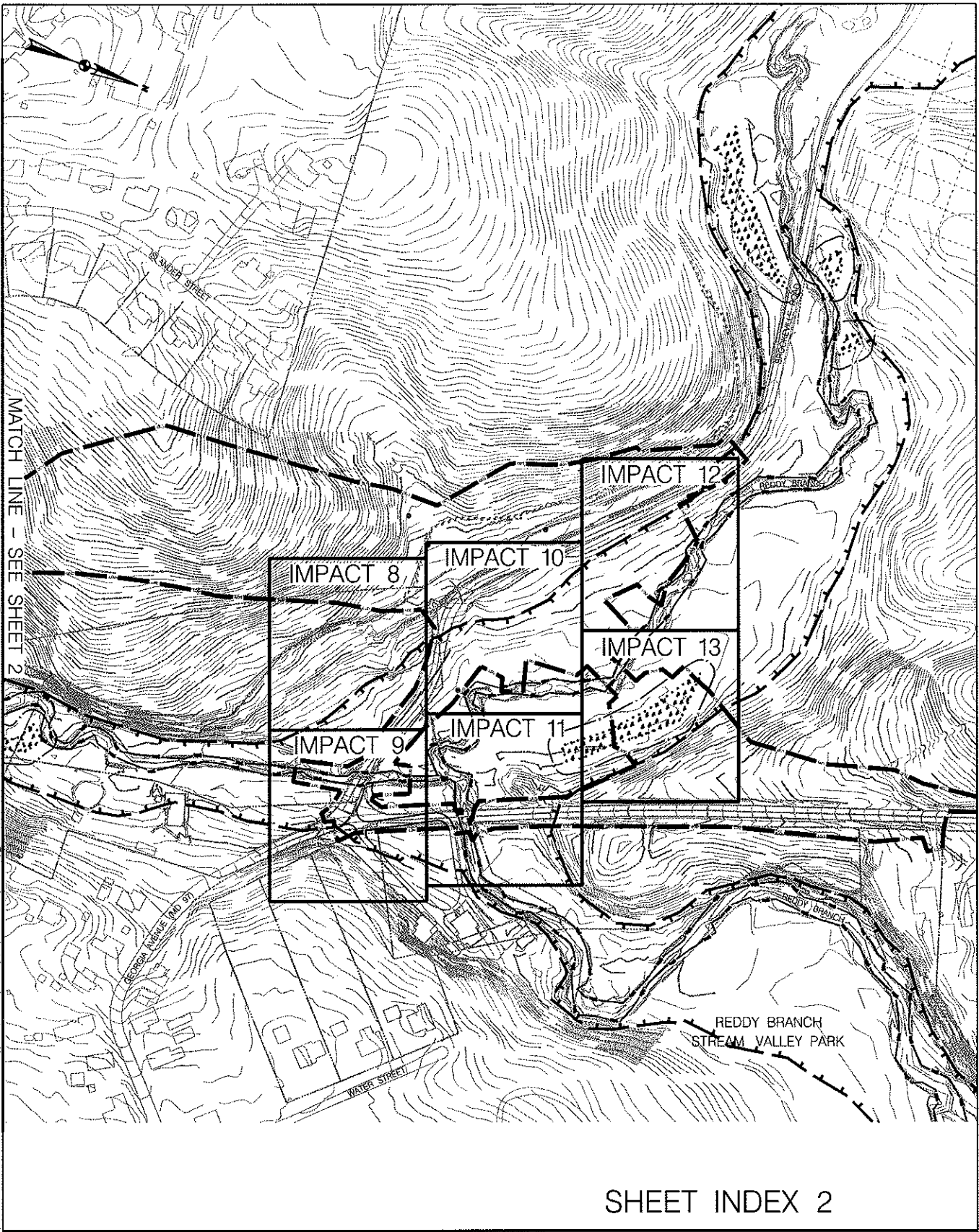
DATE:
 JUNE 2016

SCALE:
 1" = 250'

DRAWN BY:
 CLR

STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
 BROOKEVILLE, MONTGOMERY COUNTY


CONT. NO. M07465171 FMS NO. M0746M21 SHEET NO. 2 OF 17
 PREL. TRAC. BY _____ FINAL TRAC. BY _____



MATCH LINE - SEE SHEET 2

SHEET INDEX 2

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 HUNT VALLEY, MD 21031

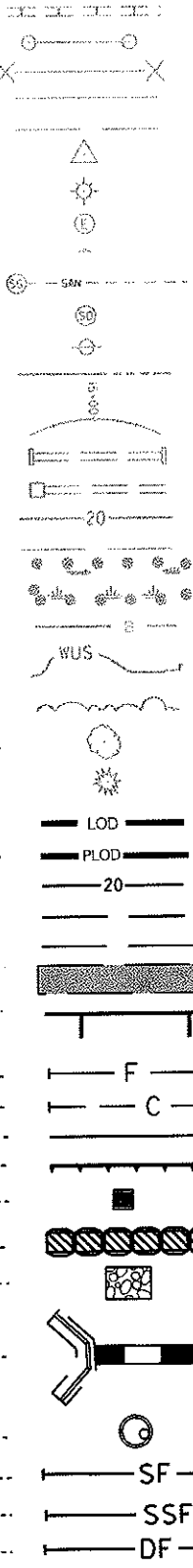
DATE:
 JUNE 2016
 SCALE:
 1" = 250'
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STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
 BROOKEVILLE, MONTGOMERY COUNTY

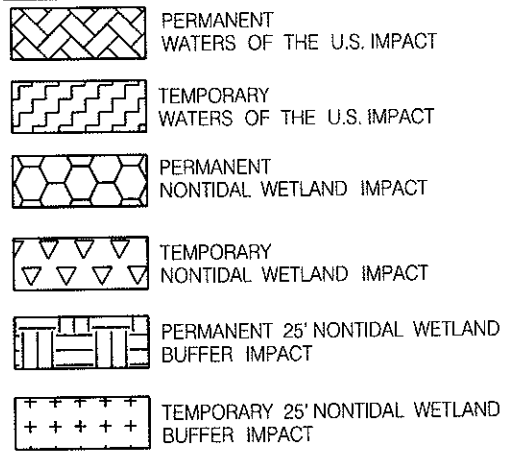
CONT. NO. MO7465171 FMS NO. MO746M21 SHEET NO. 3 OF 17
 PREL. TRAC. BY _____ FINAL TRAC. BY _____

GENERAL LEGEND

- EXISTING TRAFFIC BARRIER -----
- EXISTING WOOD FENCE LINE -----
- EXISTING METAL FENCE LINE -----
- EXISTING EDGE OF PAVEMENT -----
- EDGE OF SHOULDER -----
- TRAVERSE POINT -----
- TRAFFIC LIGHT -----
- ELECTRIC MANHOLE -----
- TRAFFIC SIGN -----
- SANITARY SEWER LINE & MANHOLE -----
- STORM DRAIN MANHOLE -----
- UTILITY POLE -----
- EXISTING PROPERTY LINE -----
- BASE LINE -----
- EXISTING PIPE /CULVERT -----
- EXISTING DROP INLET -----
- EXISTING 5' MAJOR CONTOUR -----
- EXISTING 1' MINOR CONTOUR -----
- NONTIDAL WETLAND -----
- 25' NONTIDAL WETLAND BUFFER -----
- WATERS OF THE U.S. -----
- HEDGE /TREE LINE -----
- TREE -----
- CONIFEROUS TREE -----
- LIMITS OF DISTURBANCE -----
- PLANTING LIMITS OF DISTURBANCE -----
- PROPOSED 5' MAJOR CONTOUR -----
- PROPOSED 1' MINOR CONTOUR -----
- TEMPORARY ACCES ROAD -----
- EXISTING 100-YEAR FLOODPLAIN -----
- PROPOSED CUT LINE -----
- PROPOSED FILL LINE -----
- PROPOSED EDGE OF PAVEMENT -----
- PROPOSED GUARD RAIL -----
- PROPOSED STORM DRAIN INLET -----
- PROPOSED SANDBAGS -----
- PROPOSED RIPRAP -----
- PROPOSED STORM DRAIN PIPE & HEADWALL /WINGWALL -----
- PROPOSED MANHOLE -----
- PROPOSED SILT FENCE -----
- PROPOSED SUPER SILT FENCE -----
- PROPOSED DIVERSION FENCE -----



IMPACTS LEGEND



LEGEND

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mm CENTURY
 ENGINEERING
 CONSULTING ENGINEERS - PLANNERS
 10710 GILROY ROAD
 HUNT VALLEY, MD 21031

DATE:
 JUNE 2016

SCALE:
 N.T.S.

DRAWN BY:
 CLR

STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
 BROOKEVILLE, MONTGOMERY COUNTY

CONT. NO. M07465171 FMIS NO. M0746M21 SHEET NO. 4 OF 17
 PREL. TRAC. BY _____ FINAL TRAC. BY _____

PARCEL 105
DEED LIBER 4700 FOLIO 1
MONTGOMERY COUNTY

TEMPORARY IMPACTS EXTEND BEYOND
LOD DUE TO TEMPORARY HYDROLOGY
CHANGES AND ENHANCED WETLAND
PLANTINGS

PARCEL N 955
DEED LIBER 6941 FOLIO 637
MONTGOMERY COUNTY

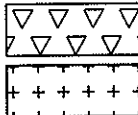
WETLAND F (PFO)

WETLAND F (PEM)



PERMANENT - WETLAND IMPACT
4,024 SF / 0.10 AC

PERMANENT - WETLAND BUFFER IMPACT
11,893 SF / 0.27 AC



TEMPORARY - WETLAND IMPACT
2,627 SF / 0.06 AC

TEMPORARY - WETLAND BUFFER IMPACT
7,068 SF / 0.16 AC

NOTES:

1: BASED UPON THE OCTOBER 2014 PRE-APPLICATION FIELD MEETING, WETLAND F IS A WETLAND/UPLAND MOSAIC (70% WETLAND; 30% UPLAND).

IMPACT 1

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

DATE:
JUNE 2016

SCALE:
1" = 40'

DRAWN BY:
R.H.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKVILLE TO NORTH OF
BROOKVILLE, MONTGOMERY COUNTY

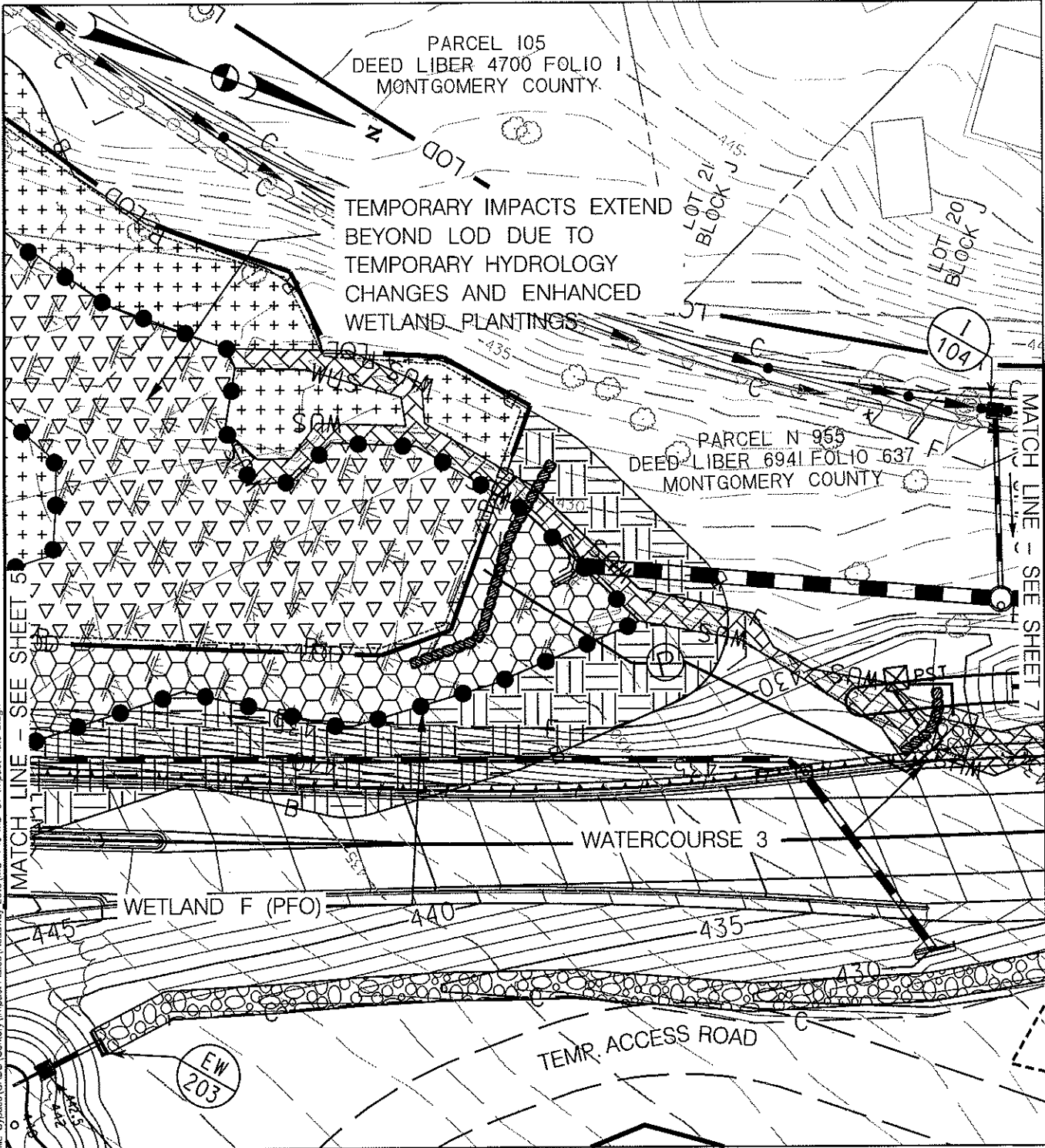
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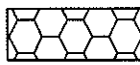
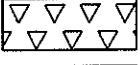


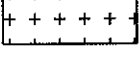
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PARCEL 105
DEED LIBER 4700 FOLIO 1
MONTGOMERY COUNTY.

TEMPORARY IMPACTS EXTEND
BEYOND LOD DUE TO
TEMPORARY HYDROLOGY
CHANGES AND ENHANCED
WETLAND PLANTINGS

PARCEL N 955
DEED LIBER 6941 FOLIO 637
MONTGOMERY COUNTY



	PERMANENT - WETLAND IMPACT 3,932 SF / 0.09 AC		TEMPORARY - WETLAND IMPACT 9,293 SF / 0.21 AC		PERMANENT - WATERS OF THE US IMPACT 2,373 SF / 348 LF
	PERMANENT - WETLAND BUFFER IMPACT 6,338 SF / 0.15 AC		TEMPORARY - WETLAND BUFFER IMPACT 2,816 SF / 0.07 AC		

NOTES: 1. BASED UPON THE OCTOBER 2014 PRE-APPLICATION FIELD MEETING, WETLAND F IS A WETLAND/UPLAND MOSAIC (70% WETLAND; 30% UPLAND)

IMPACT 2

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

DATE:
JUNE 2016

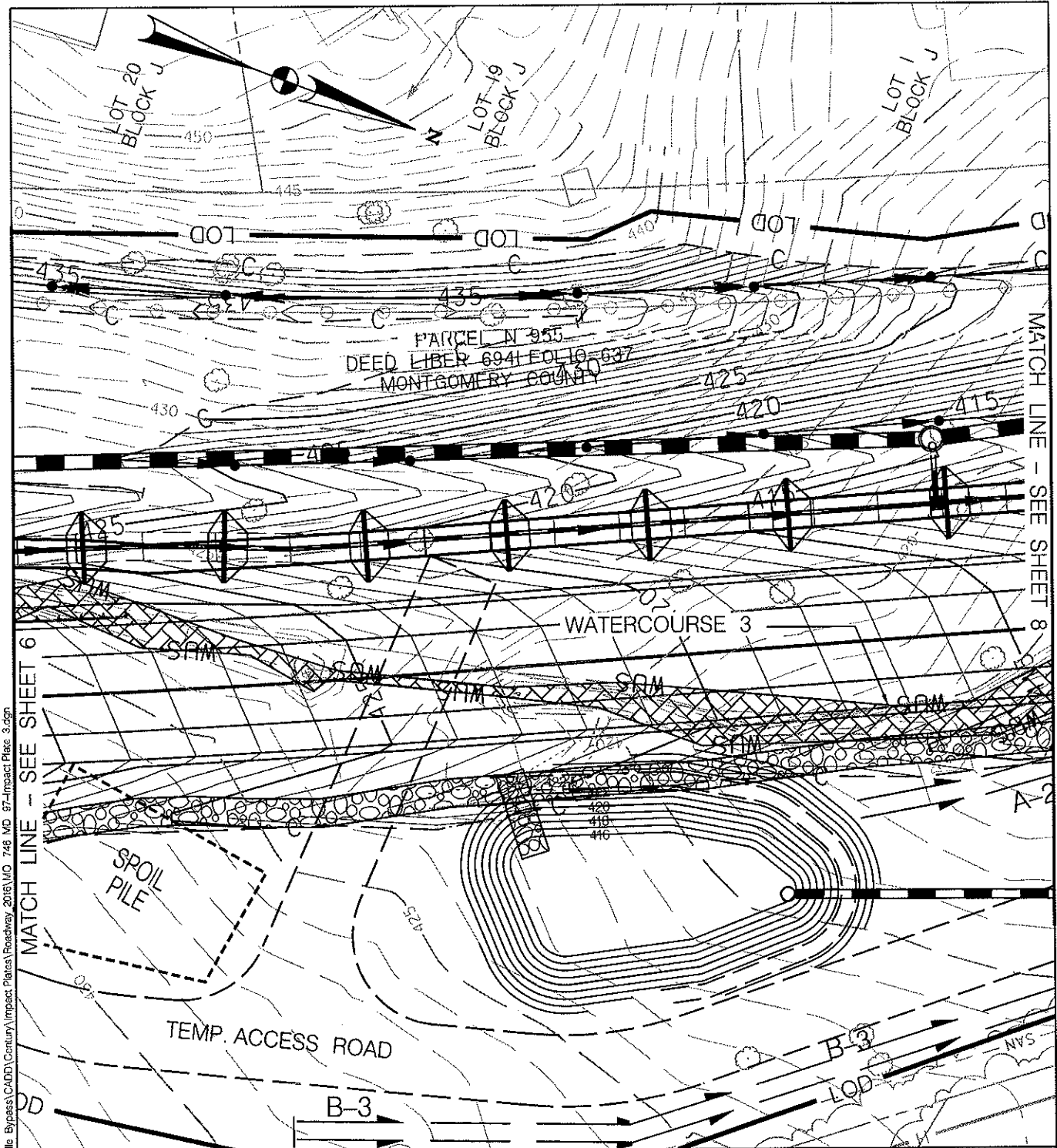
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1" = 40'

DRAWN BY:
R.H.


STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
BROOKEVILLE, MONTGOMERY COUNTY

CONT. NO. MO7465171 FMS NO. MO746M21 SHEET NO. 6 OF 17
PREL. TRAC. BY _____ FINAL TRAC. BY _____


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 MATCH LINE - SEE SHEET 8


 PERMANENT - WATERS OF THE U.S. IMPACT
 2,521 SF / 302 LF

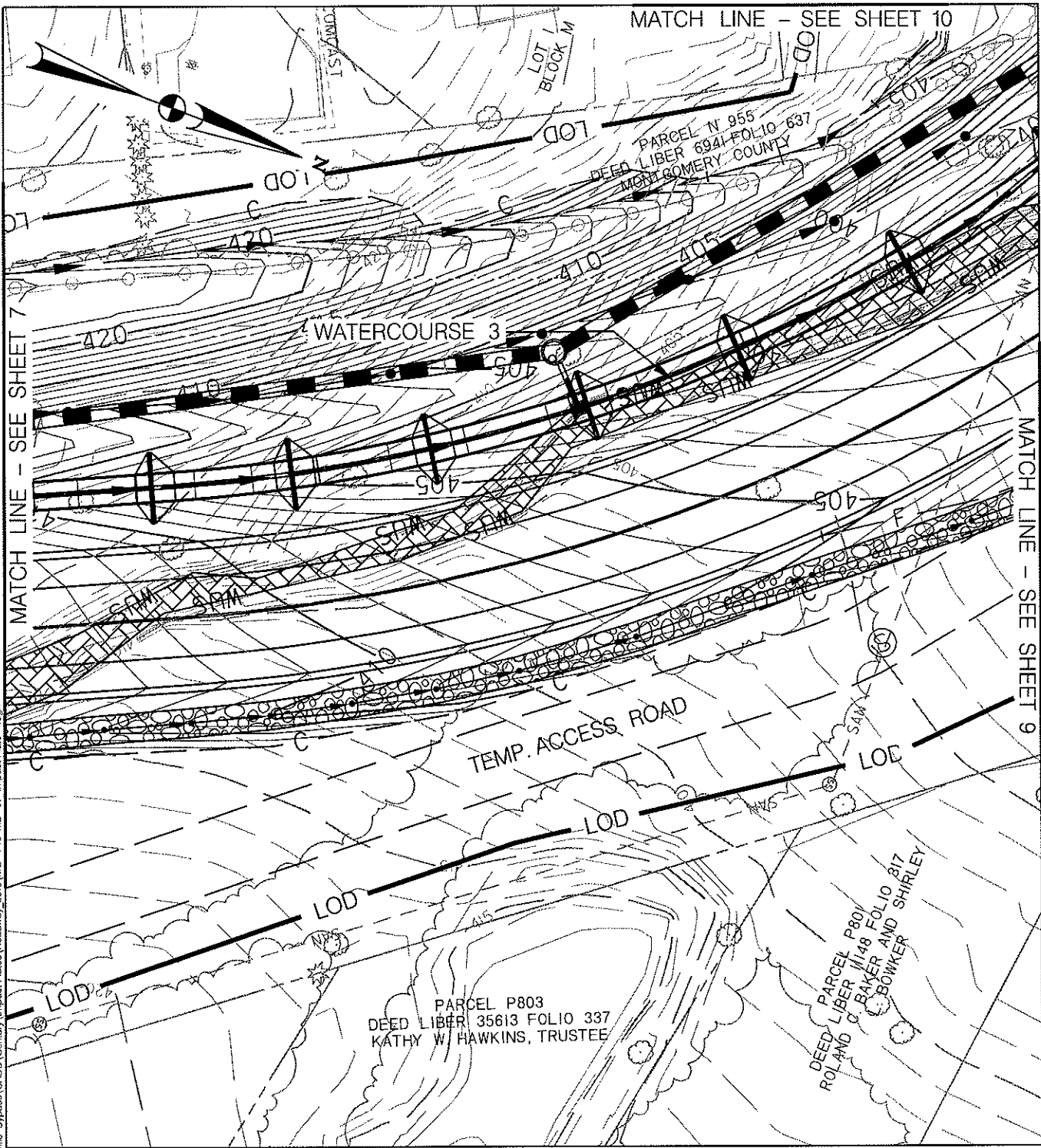
IMPACT 3


CENTURY
 ENGINEERING
 CONSULTING ENGINEERS - PLANNERS
 10710 GILROY ROAD
 HUNT VALLEY, MD 21031

DATE:
 JUNE 2016
 SCALE:
 1" = 40'
 DRAWN BY:
 R.H.

STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
 BROOKEVILLE, MONTGOMERY COUNTY

CONY. NO. MO7465171 FMIS NO. MO746M21 SHEET NO. 7 OF 17
 PREL. TRAC. BY _____ FINAL TRAC. BY _____



PERMANENT - WATERS OF THE U.S. IMPACT
3,105 SF / 326 LF

IMPACT 4

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

DATE:
JUNE 2016

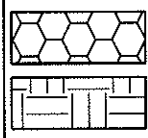
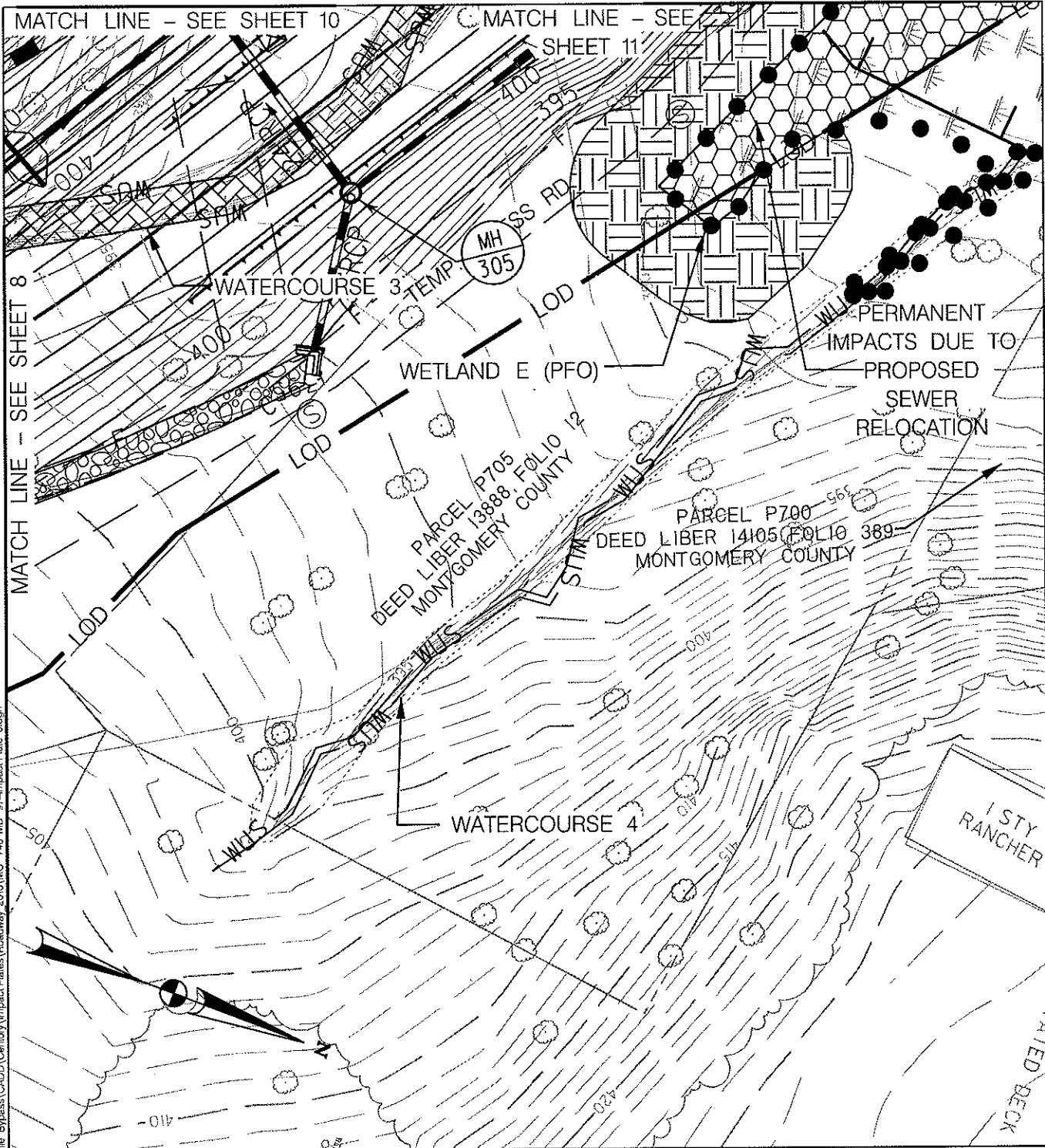
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1" = 40'

DRAWN BY:
R.H.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
BROOKEVILLE, MONTGOMERY COUNTY

CONT. NO. MO7465171 FMS NO. MO746M21 SHEET NO. 8 OF 17
PREL. TRAC. BY _____ FINAL TRAC. BY _____

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PERMANENT - WETLAND IMPACT
2,149 SF \approx 0.05 AC

PERMANENT - WETLAND BUFFER IMPACT
3,974 SF \approx 0.09 AC

PERMANENT - WATERS OF THE U.S. IMPACT
1,517 SF \approx 0.04 LF

IMPACT 5

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

DATE:
JUNE 2016

SCALE:
1" = 40'

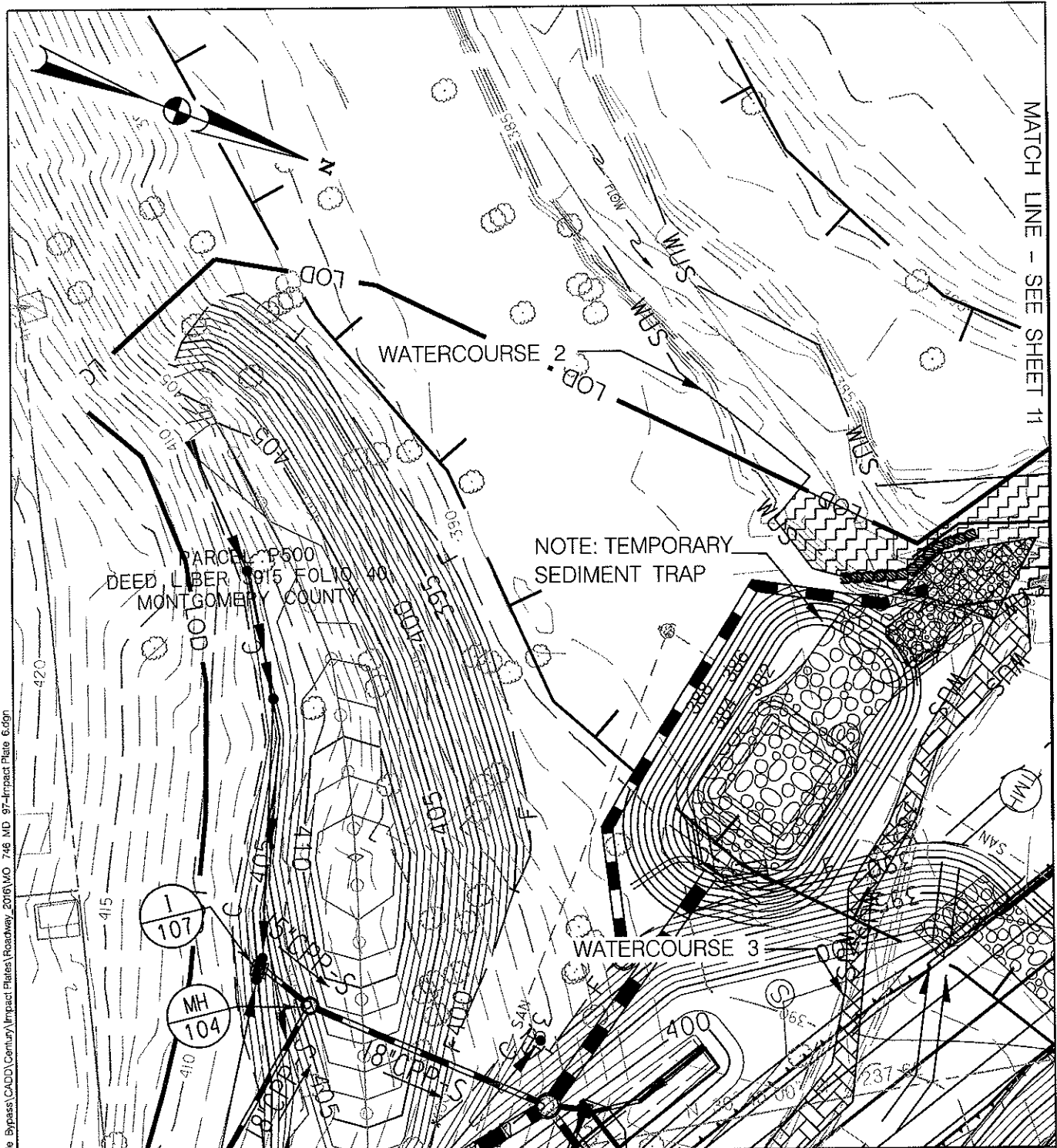
DRAWN BY:
R.H.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
BROOKEVILLE, MONTGOMERY COUNTY

CONT. NO. MO7465171 FMS NO. MO746M21 SHEET NO. 9 OF 17
PREL. TRAC. BY _____ FINAL TRAC. BY _____

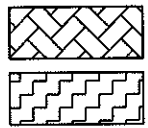
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MATCH LINE - SEE SHEET 11



MATCH LINE - SEE SHEET 8

MATCH LINE - SEE SHEET 9



PERMANENT - WATERS OF THE U.S. IMPACT
2,139 SF / 244 LF

TEMPORARY - WATERS OF THE U.S. IMPACT
1,297 SF / 63 LF

IMPACT 6

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

DATE:
JUNE 2016

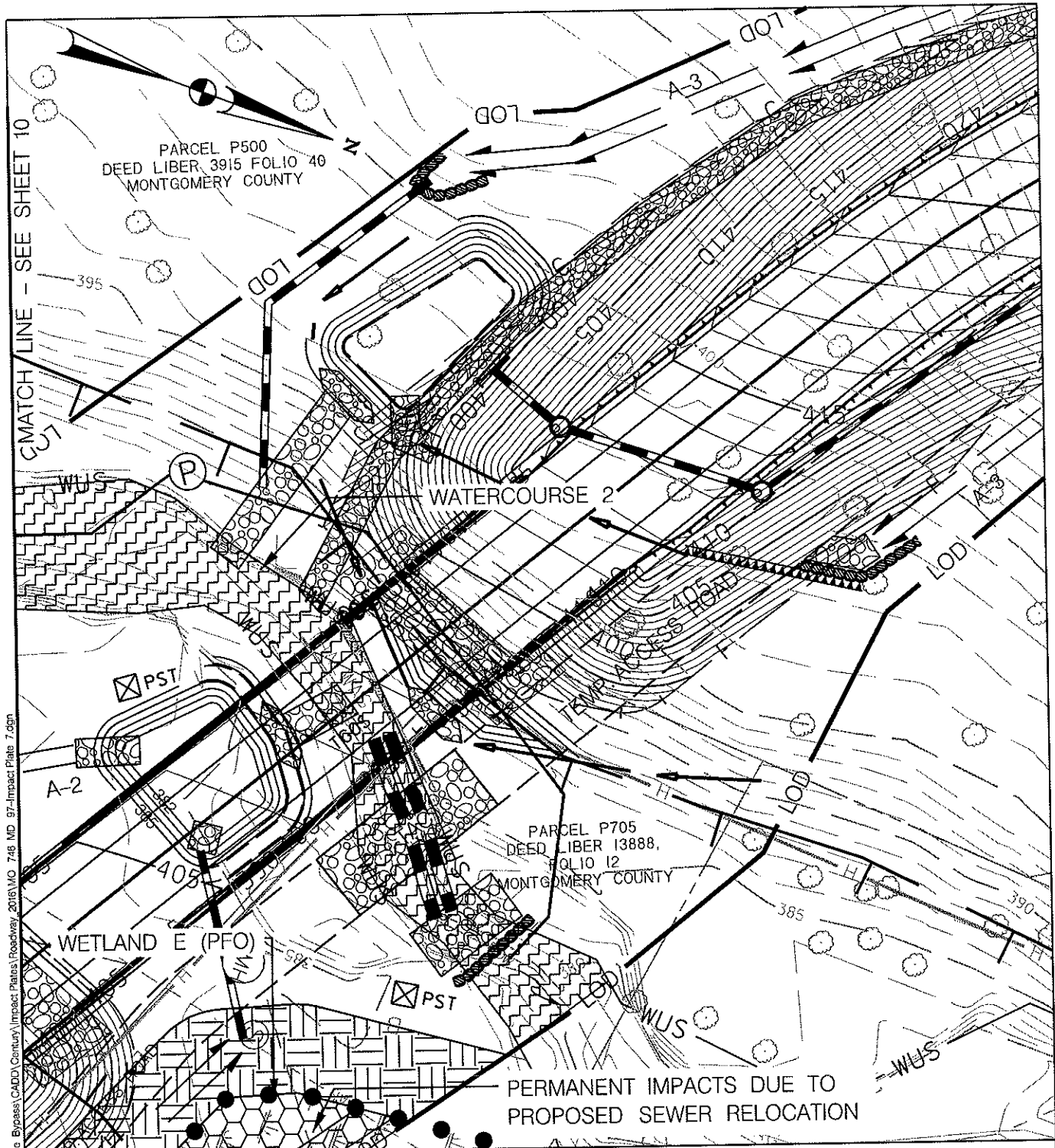
SCALE:
1" = 40'

DRAWN BY:
R.H.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKVILLE TO NORTH OF
BROOKVILLE, MONTGOMERY COUNTY

CONT. NO. MO7465171 FMS NO. MO746M21 SHEET NO. 10 OF 17
PREL. TRAC. BY _____ FINAL TRAC. BY _____



PLOTTED: Thursday, June 23, 2016 AT 09:36 AM
 FILE: S:\Data\Transportation\11188.06_M0746.MD_97_Brookville Bypass\CADD\Century\Impact\Plates\Roadway_2016\MO_746_MD_97-Impact Plate 6.dgn




MATCH LINE - SEE SHEET 10

PLOTED: Wednesday, June 22, 2016 AT 09:20 AM
 FILE: S:\2014\Transportation\111183.06_M0746.MD_97_Brookville_Bypass_CADD\Century\Impact\Platons\Roadway_2016\MO_746_MD_97-Impact Plate 7.dgn

MATCH LINE - SEE SHEET 9

	PERMANENT - WETLAND IMPACT 785 SF ± 0.05 AC
	PERMANENT - WETLAND BUFFER IMPACT 2,792 SF ± 0.06 AC

	TEMPORARY - WATERS OF THE U.S. IMPACT 4,151 SF ± 223 LF
---	--

IMPACT 7

mm CENTURY
 ENGINEERING
 CONSULTING ENGINEERS - PLANNERS
 10710 GILROY ROAD
 HUNT VALLEY, MD 21031

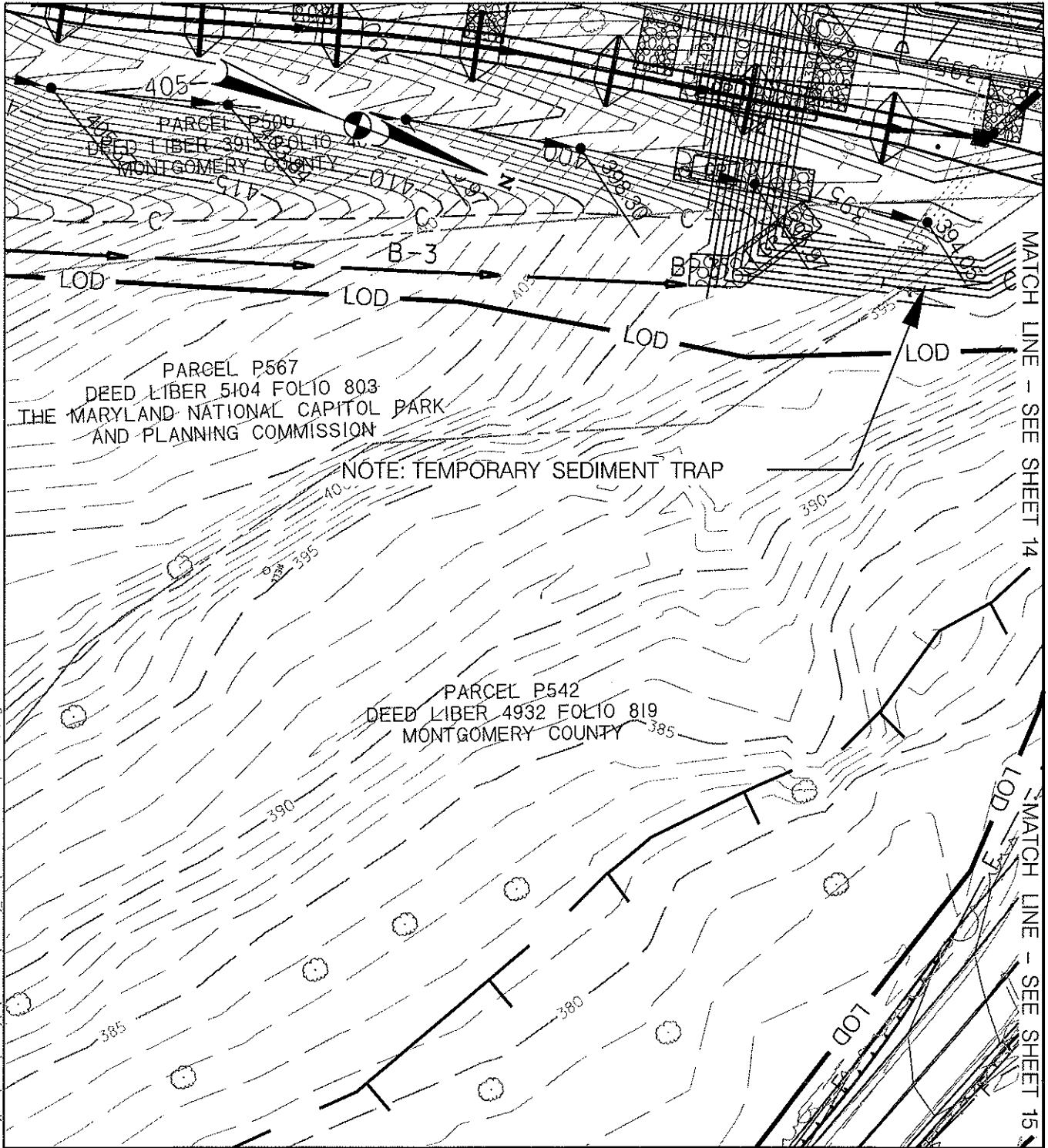
DATE:
JUNE 2016

SCALE:
1" = 40'

DRAWN BY:
C.L.R.

STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 MD 97 SOUTH OF BROOKVILLE TO NORTH OF
 BROOKVILLE, MONTGOMERY COUNTY

CONT. NO. <u>M07465171</u>	FMS NO. <u>M0746M21</u>	SHEET NO. <u>11</u> OF <u>17</u>
PREL. TRAC. BY	FINAL TRAC. BY	



MATCH LINE - SEE SHEET 13

FLOODPLAIN IMPACTS ONLY.

IMPACT 8

mt CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

DATE:
JUNE 2016

SCALE:
1" = 40'

DRAWN BY:
C.L.R.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKVILLE TO NORTH OF
BROOKEVILLE, MONTGOMERY COUNTY

CONT. NO. MOT465171
PREL. TRAC. BY

FMIS NO. MOT46M21
FINAL TRAC. BY

SHEET NO. 12 OF 17

PLOTTED: Wednesday, June 22, 2016 AT 09:31 AM
 FILE: S:\2014\Transportation\111138.06 MOT746 MD 97 Brookeville Bypass\CADD\Century\Impact\Plates\Roadway_2016\MO_746 MD_97-Impact Plate 8.dgn

MATCH LINE - SEE SHEET 12

PARCEL P542
DEED LIBER 4932 FOLIO .819
MONTGOMERY COUNTY

PERMANENT WUS
IMPACT
DUE TO CULVERT
REPLACEMENT

CONC. DITCH

WUS

WATERCOURSE 2

PARCEL P543
DEED LIBER 49247 FOLIO
332
WILLIAM KINIRY &
SUZANNA MOREAU

LOD PARCEL P477
DEED LIBER 32928 FOLIO 69
JANE C. MALLER, TRUSTEE
NVS

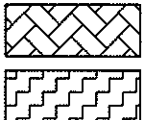
MATCH LINE - SEE SHEET 15

PARCEL N437
DEED LIBER 26617 FOLIO 177
JEFFREY MARK JOHNSON &
MARTHA ELAINE ANDRESS
LOT 61, TOWN OF BROOKVILLE
SUBDIVISION PLAT #22316
43,932 SQ. FT. OR 1.009 AC.

PARCEL N429
DEED LIBER 34065 FOLIO 735
DAVID C. YINGER AND CATHERINE
MCDONALD

PARCEL P434
DEED LIBER 1469 FOLIO 175
PARCEL #1
DAVID C. YINGER AND EVELYN YINGER
57,013 SQ. FT. OR 1.271 AC.

LOT 62, TOWN OF BROOKVILLE
SUBDIVISION PLAT #22316
35,535 SQ. FT. OR 0.816 AC.



PERMANENT - WATERS OF THE U.S. IMPACT
2,884 SF /180 LF

TEMPORARY- WATERS OF THE U.S. IMPACT
334 SF /40 LF

IMPACT 9

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

DATE:
JUNE 2016

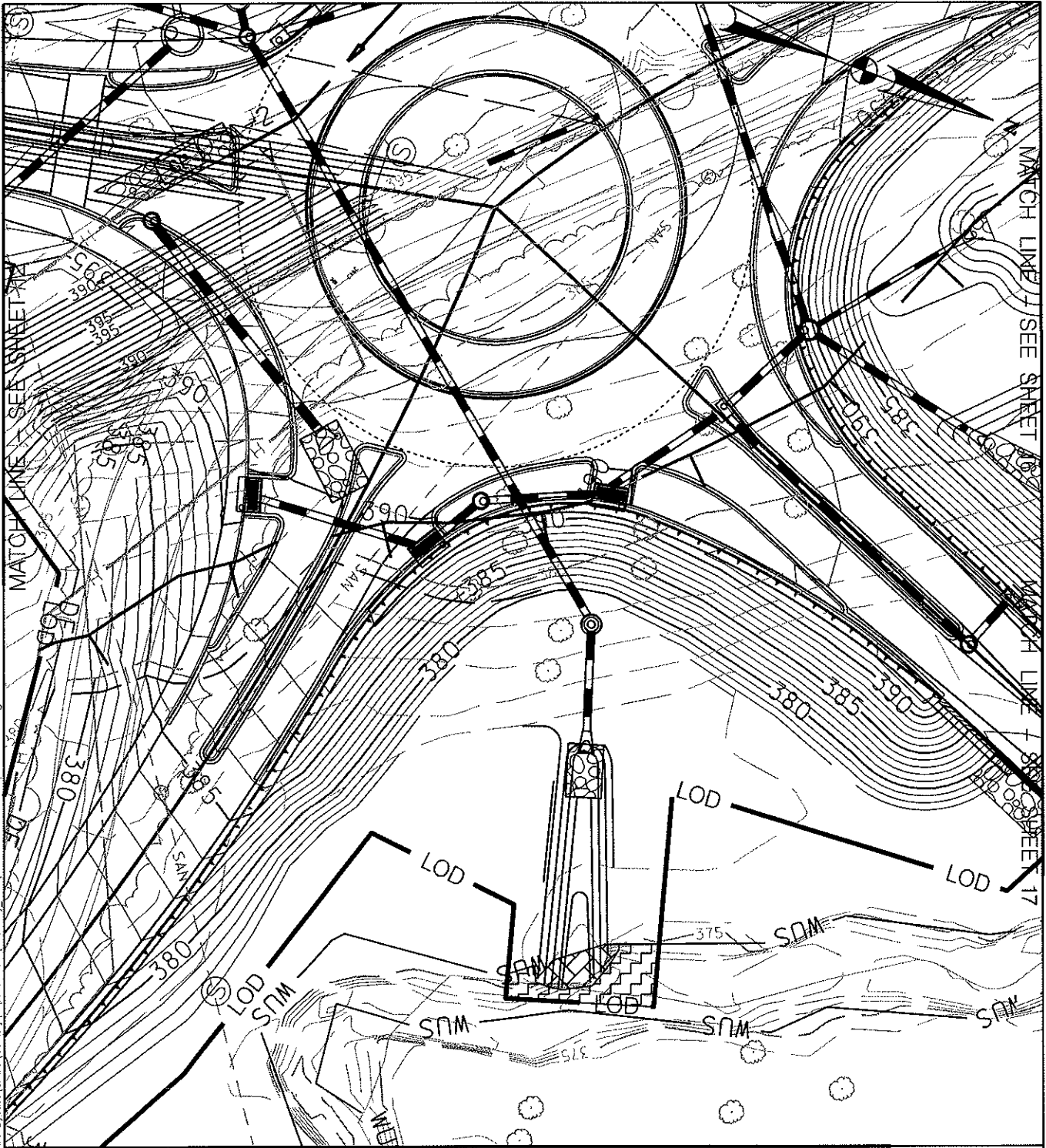
SCALE:
1" = 40'

DRAWN BY:
C.L.R.

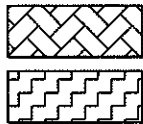
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKVILLE TO NORTH OF
BROOKVILLE, MONTGOMERY COUNTY

CONT. NO. MO7465171 FMS NO. MO746M21 SHEET NO. 13 OF 17
PREL. TRAC. BY _____ FINAL TRAC. BY _____

PLOTTED: Wednesday, June 22, 2016 AT 09:32 AM
FILE: S:\2016\Transportation\111139.06 MO746 MD 97 Brookeville Bypass\CADD\Cenury\Impact Plats\Roadway_2016\MO 746 MD 97-Impact Plate 9.dgn



MATCH LINE - SEE SHEET 15



PERMANENT - WATERS OF THE U.S. IMPACT
187 SF /16 LF

TEMPORARY - WATERS OF THE U.S. IMPACT
389 SF /26 LF

IMPACT 10

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

DATE:
JUNE 2016

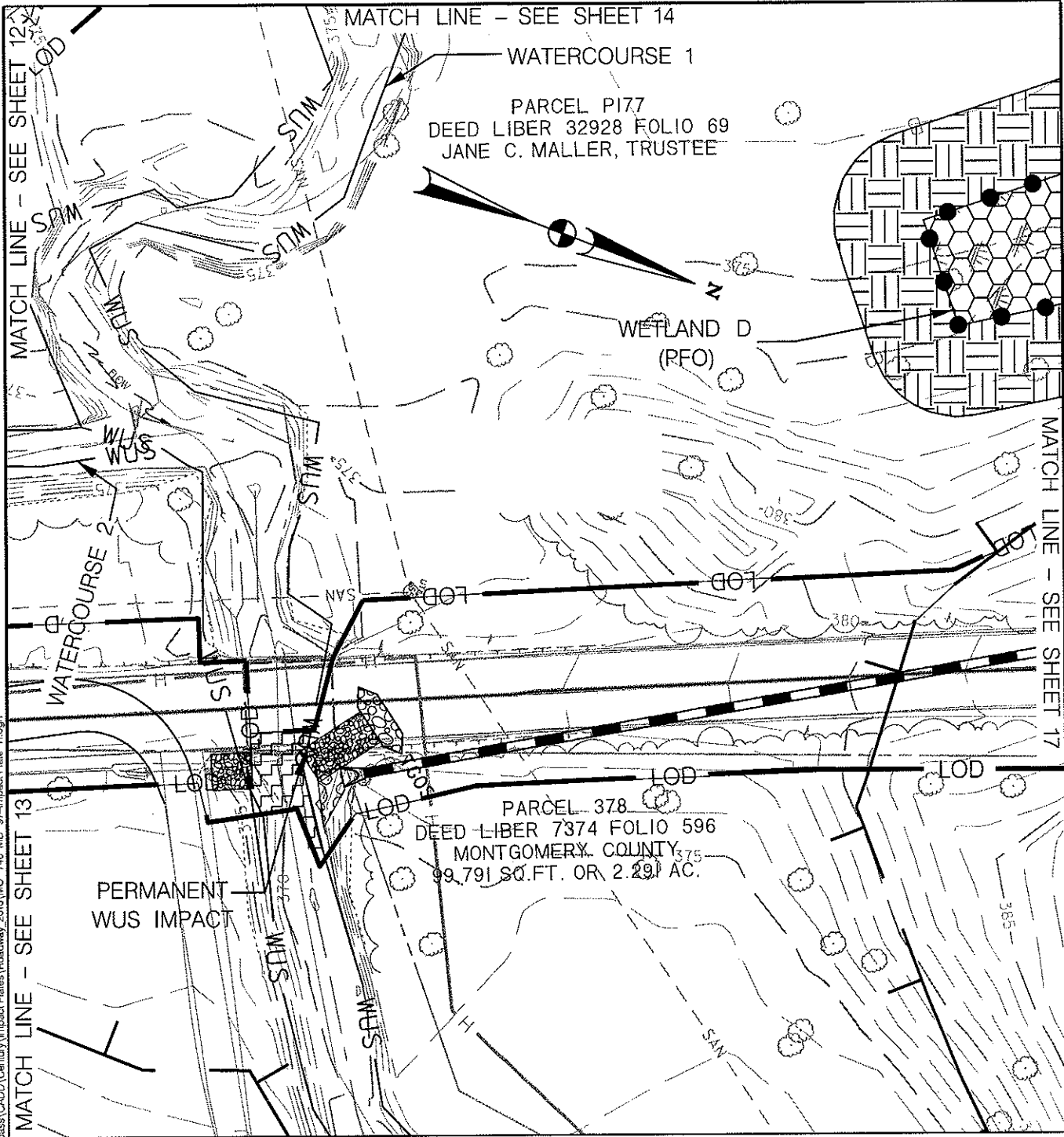
SCALE:
1" = 40'

DRAWN BY:
C.L.R.



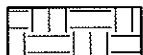

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
BROOKEVILLE, MONTGOMERY COUNTY

CONT. NO. M07465171 FMIS NO. M0746M21 SHEET NO. 14 OF 17
PREL. TRAC. BY _____ FINAL TRAC. BY _____


PLOTTED: Wednesday, June 22, 2016 AT 09:33 AM
 FILE: S:\2014 Transportation\111138.05 M0746 MD 97 Brookeville Bypass\CAD\Century Impact Plans\Roadway_2016\MO 746 MD 97 Impact Plate 10.dgn

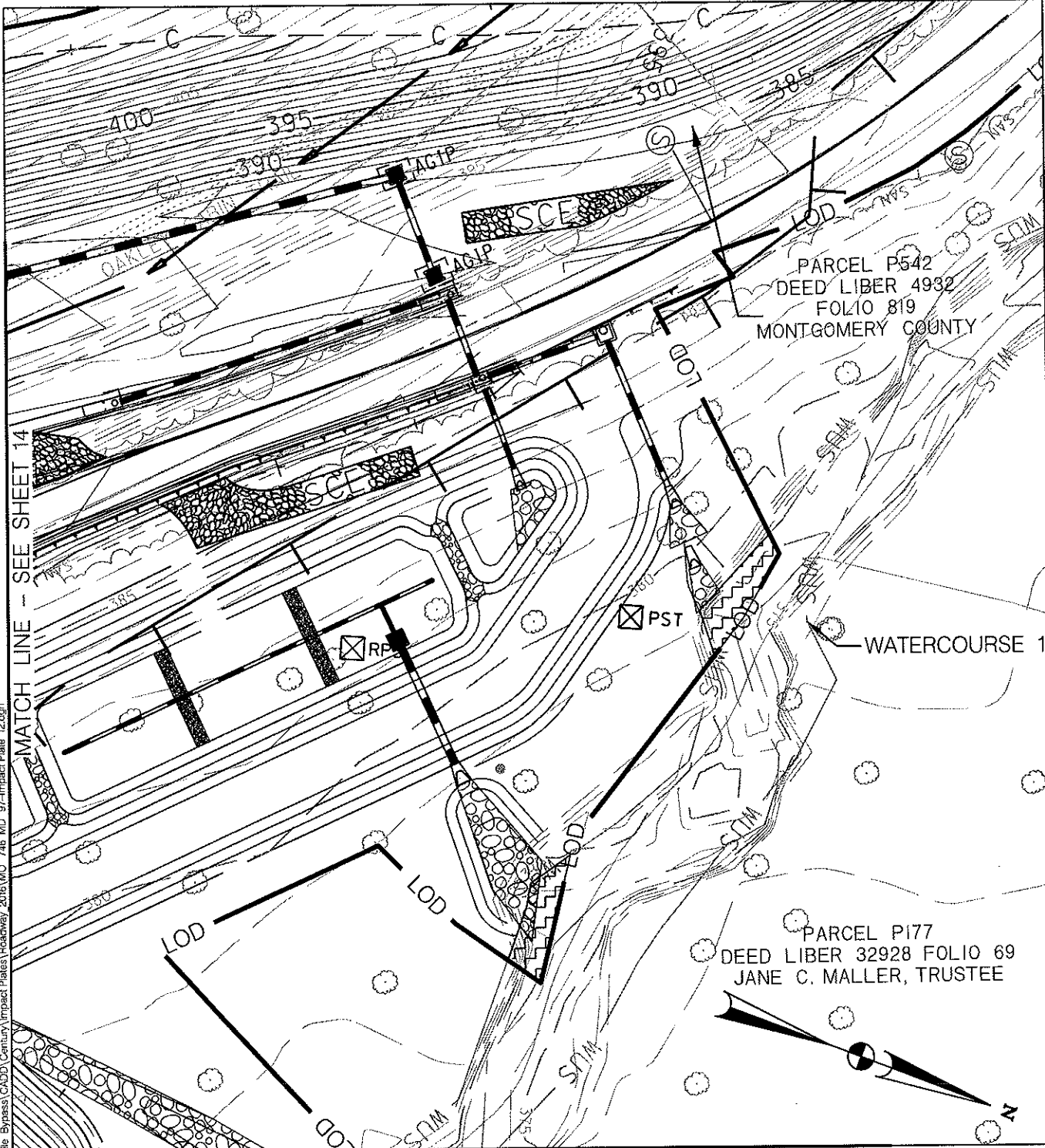


PLOTTED: Wednesday, June 22, 2016 AT 09:34 AM
 FILE: S:\2014\Transportation\11138.06.M0746.MD.97.Brookeville Bypass\CADD\Century\Impact\Plates\Roadway_2016\MO.746.MD.97-Impact Plate 11.dgn

	PERMANENT - WETLAND IMPACT 1,141 SF / 0.03 AC		PERMANENT - WATERS OF THE U.S. IMPACT 26 SF // 10 LF
	PERMANENT - WETLAND BUFFER IMPACT 3,495 SF // 0.080 AC		TEMPORARY - WATERS OF THE U.S. IMPACT 373 SF // 29 LF



IMPACT 11

 CENTURY ENGINEERING CONSULTING ENGINEERS - PLANNERS 10710 GILROY ROAD HUNT VALLEY, MD 21031	DATE: JUNE 2016	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION MD 97 SOUTH OF BROOKEVILLE TO NORTH OF BROOKEVILLE, MONTGOMERY COUNTY
	SCALE: 1" = 40'	
	DRAWN BY: C.L.R.	
CONT. NO. <u>M07465171</u> FMIS NO. <u>M0746M21</u> SHEET NO. <u>15</u> OF <u>17</u> PREL. TRAC. BY _____ FINAL TRAC. BY _____		



MATCH LINE - SEE SHEET 14

MATCH LINE - SEE SHEET 17

- 
PERMANENT - WATERS OF THE U.S IMPACT
49 SF /4 LF
- 
TEMPORARY - WATERS OF THE U.S IMPACT
510 SF /42 LF

IMPACT 12

MM CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

DATE:
JUNE 2016

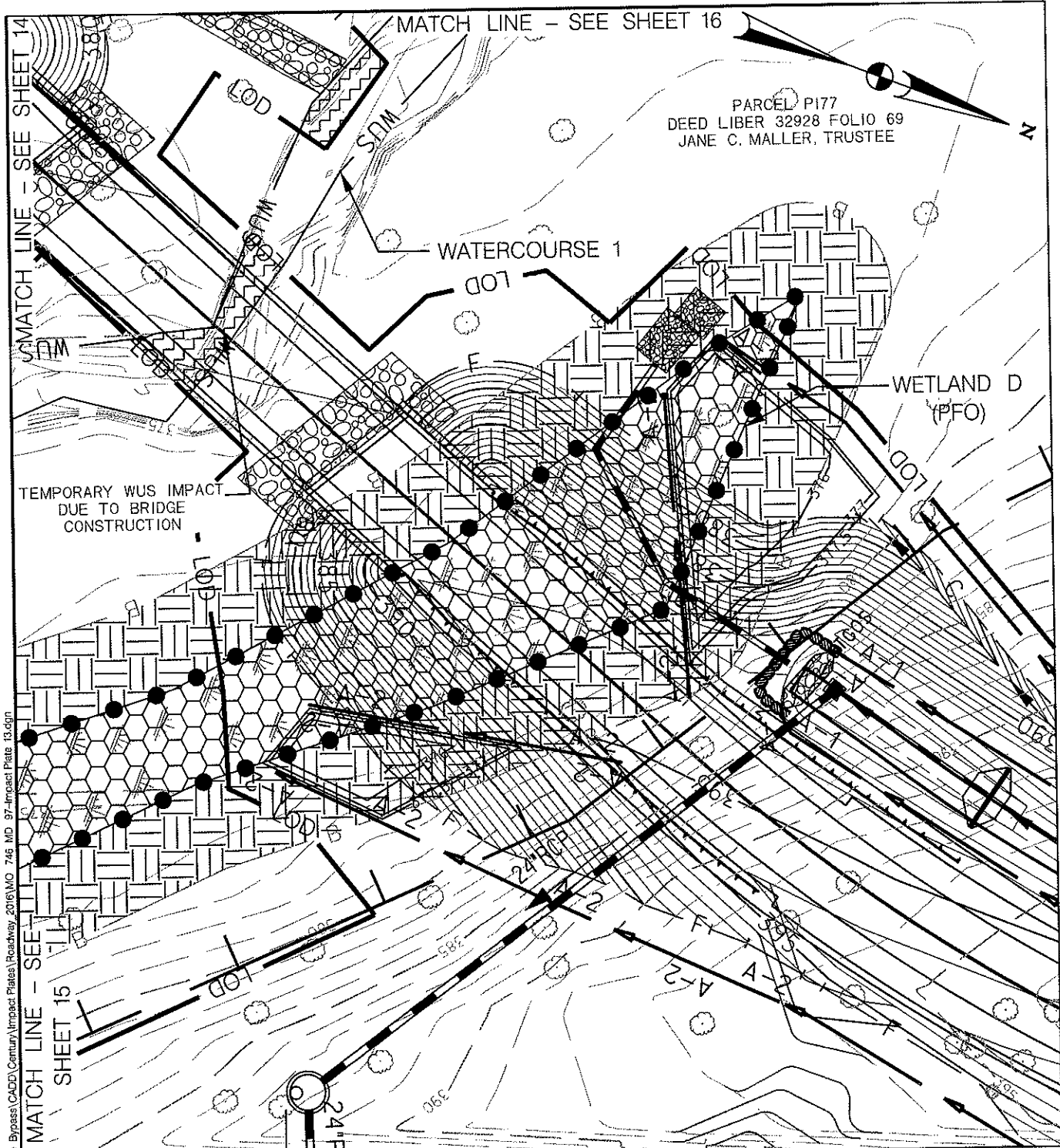
SCALE:
1" = 40'

DRAWN BY:
C.L.R.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
BROOKEVILLE, MONTGOMERY COUNTY

CONT. NO. M07465171 FMS NO. M0746M21 SHEET NO. 16 OF 17
PREL. TRAC. BY _____ FINAL TRAC. BY _____

PLOTTED: Wednesday, June 22, 2016 AT 09:34 AM
FILE: S:\2014\Transportation\111138-06 M0746 MD 97 Brookeville Bypass\CADD\Century\Impact Plates\Roadway_2016\MO 746 MD 97-Impact Plate 12.dgn

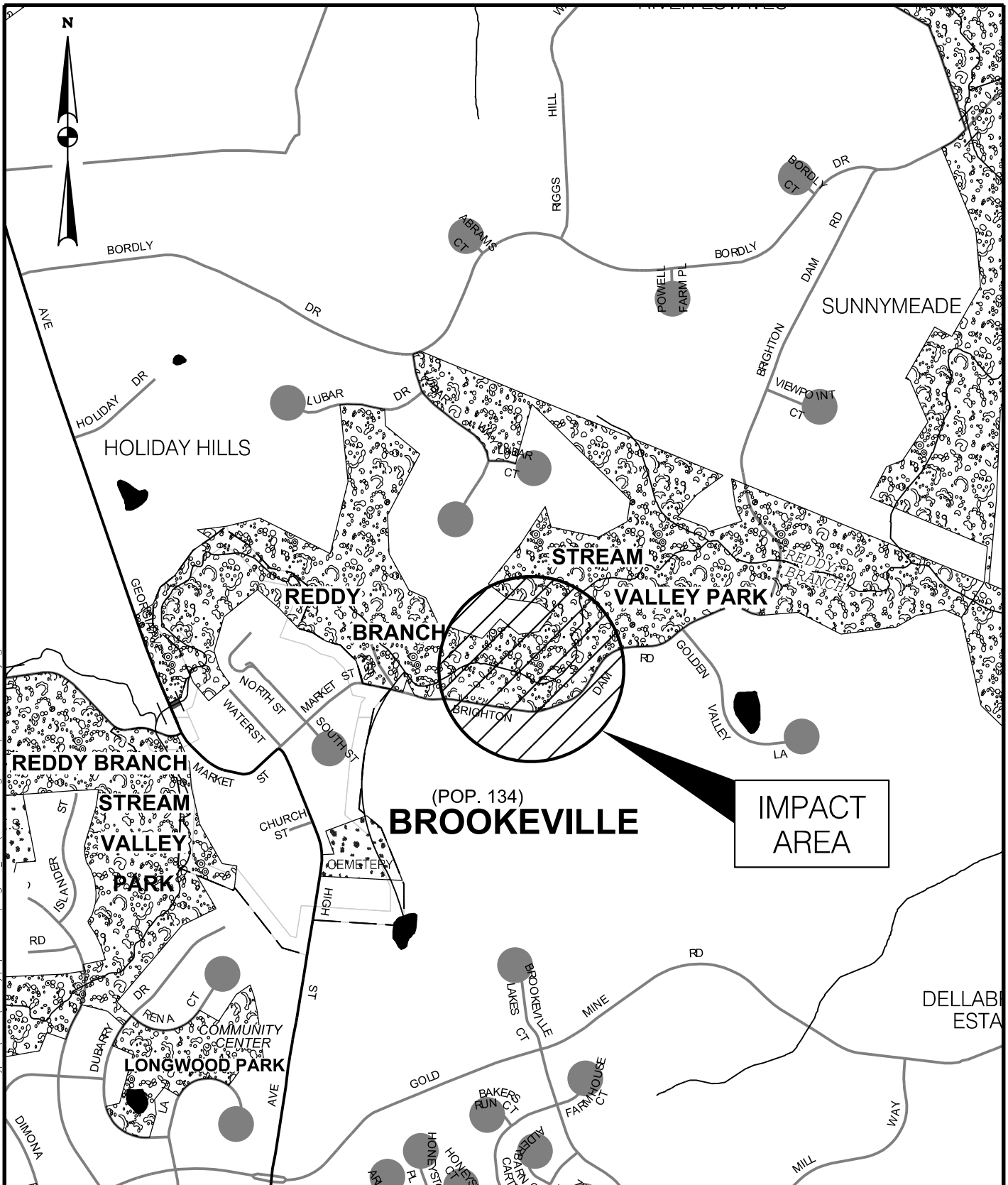


PLOTTED: Wednesday, June 22, 2016 AT 09:43 AM
 FILE: S:\2014\Transportation\111158.06 MW746 MD 97 Brookeville Bypass\CADD\Cen\Impact Plates\Roadway 2016\MO 746 MD 97 Impact Plate 13.dgn
 MATCH LINE - SEE SHEET 15
 MATCH LINE - SEE SHEET 14
 MATCH LINE - SEE SHEET 16

	PERMANENT - WETLAND IMPACT 8,780 SF / 0.20 AC
	PERMANENT - WETLAND BUFFER IMPACT 14,737 SF / 0.34 AC
	TEMPORARY - WATERS OF THE U.S. IMPACT 806 SF / 7.5 LF

IMPACT 13

<p>CENTURY ENGINEERING CONSULTING ENGINEERS - PLANNERS 10710 GILROY ROAD HUNT VALLEY, MD 21031</p>	<p>DATE: JUNE 2016</p>	<p>STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION MD 97 SOUTH OF BROOKVILLE TO NORTH OF BROOKVILLE, MONTGOMERY COUNTY</p>
	<p>SCALE: 1" = 40'</p>	
<p>DRAWN BY: C.L.R.</p>	<p>CONT. NO. <u>M07465171</u> PREL. TRAC. BY</p>	<p>FMS NO. <u>M0746M21</u> FINAL TRAC. BY</p>
<p>SHEET NO. <u>17</u> OF <u>17</u></p>		



PLOTTED: Wednesday, June 22, 2016 AT 10:49 AM
 FILE: S:\2014\Transportation\111138.06 MO746 MD 97 Brookeville Bypass\CADD\Century\Impact\Plates\Mitigation_2016\MD_97_Mitigation-Impact Plate_Vicinity.dgn

VICINITY MAP






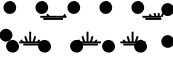

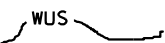









CENTURY
 ENGINEERING
 CONSULTING ENGINEERS - PLANNERS
 10710 GILROY ROAD
 HUNT VALLEY, MD 21031

DATE:
 JUNE 2016
 SCALE:
 1" = 1,000'
 DRAWN BY:
 D.V./C.R.

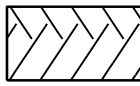
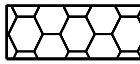


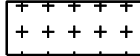
STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
 BROOKEVILLE, MONTGOMERY COUNTY - MITIGATION
 SITE

CONT. NO. MO7465171 FMIS NO. MO746M21 SHEET NO. 1 OF 12
 PREL. TRAC. BY _____ FINAL TRAC. BY _____

GENERAL LEGEND

EXISTING EDGE OF PAVEMENT -----	
TRAVERSE POINT -----	
EXISTING GIS PROPERTY BOUNDARY -----	
EXISTING 2' GIS CONTOUR -----	
EXISTING GRADING -----	
EXISTING NONTIDAL WETLAND -----	
25' NONTIDAL WETLAND BUFFER -----	
EXISTING WATERS OF THE U.S. -----	
EXISTING TREE -----	
EXISTING 100-YEAR FLOODPLAIN -----	
EXISTING BUILDING -----	
LIMITS OF DISTURBANCE -----	
PROPOSED CHANNEL -----	
PROPOSED STABILIZED CONSTRUCTION ENTRANCE	
PROPOSED RIPRAP -----	
PROPOSED HAUL ROAD -----	

IMPACTS LEGEND

	PERMANENT - ECOLOGICAL ENHANCEMENT WATERS OF THE U.S. IMPACT
	PERMANENT NONTIDAL WETLAND IMPACT
	TEMPORARY NONTIDAL WETLAND IMPACT
	PERMANENT 25' NONTIDAL WETLAND BUFFER IMPACT
	TEMPORARY 25' NONTIDAL WETLAND BUFFER IMPACT

LEGEND

PLOTTED: Wednesday, June 22, 2016 AT 10:50 AM
FILE: S:\2014\Transportation\111138.06 MO746 MD 97 Brookeville Bypass\CADD\Century\Impact Plates\Mitigation_2016\MD 97 Mitigation-Impact Plate - Legend.dgn

mm CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

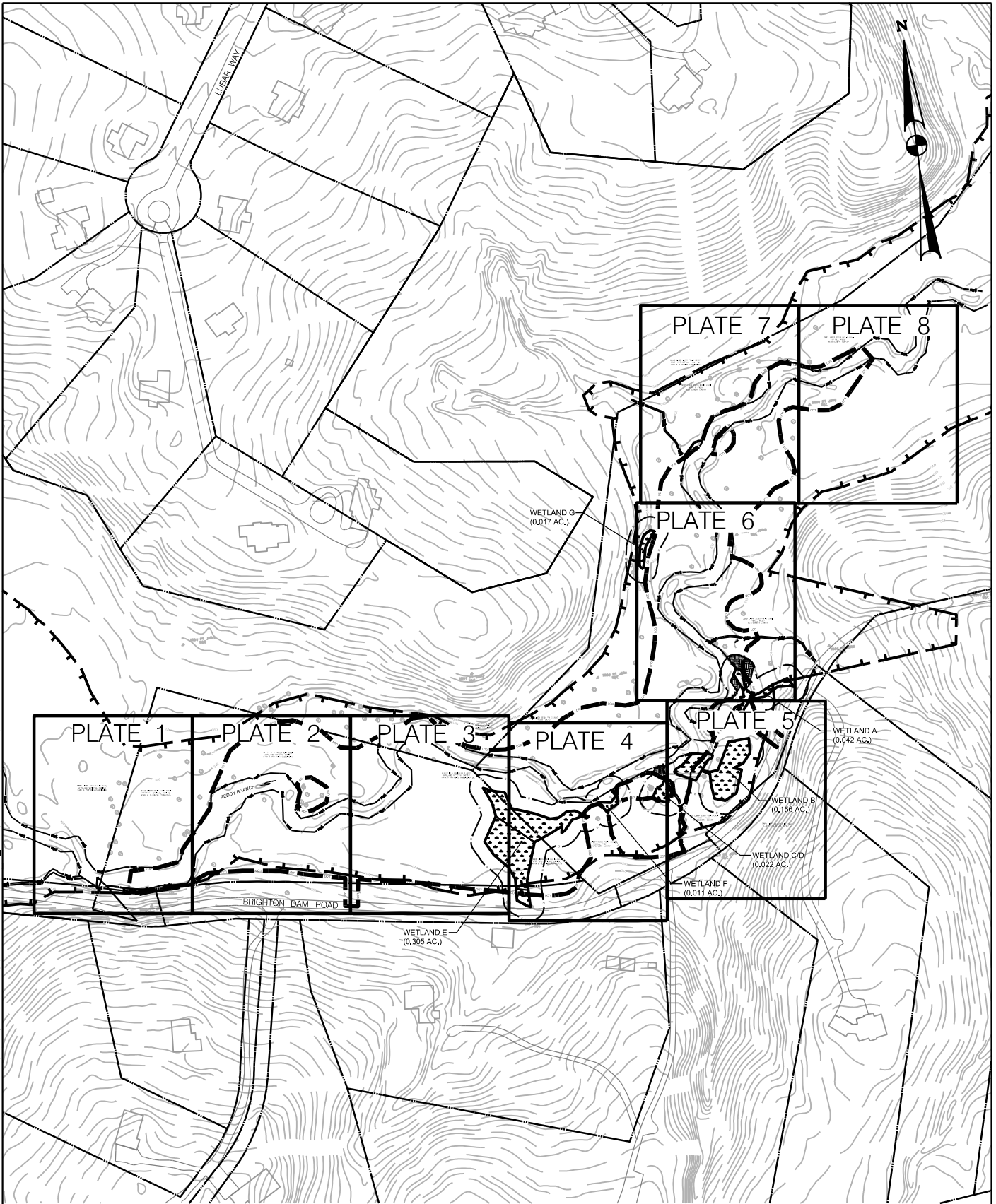
DATE:
JUNE 2016

SCALE:
N/A

DRAWN BY:
D.V./C.R.


STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
BROOKEVILLE, MONTGOMERY COUNTY - MITIGATION
SITE

CONT. NO. MO7465171 FMIS NO. MO746M21 SHEET NO. 2 OF 12
PREL. TRAC. BY _____ FINAL TRAC. BY _____



SHEET LAYOUT

PLOTTED: Thursday, June 23, 2016 AT 09:40 AM
 FILE: S:\2014 Transportation\Bypass\CADD\Century\Impact Plates\Mitigation_2016\MD_97_Mitigation-Impact Plate -Sheet Index.dgn


CENTURY
 ENGINEERING
 CONSULTING ENGINEERS - PLANNERS
 10710 GILROY ROAD
 HUNT VALLEY, MD 21031

DATE:
JUNE 2016

SCALE:
1" = 250'

DRAWN BY:
D.V./C.R.

STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
 BROOKEVILLE, MONTGOMERY COUNTY - MITIGATION
 SITE

CONT. NO. <u>M07465171</u>	FMIS NO. <u>M0746M21</u>	SHEET NO. <u>3</u> OF <u>12</u>
PREL. TRAC. BY _____	FINAL TRAC. BY _____	



PERMANENT - ECOLOGICAL ENHANCEMENT
 WATERS OF THE U.S. IMPACT
 PERENNIAL: 7,508 SF /202 LF



DEED LIBER 19675 FOLIO 00332
 MARYLAND NATIONAL CAPITAL
 PARK & PLANNING COMMISSION

DEED LIBER 09812 FOLIO 00221
 MARYLAND NATIONAL CAPITAL
 PARK & PLANNING COMMISSION

WATERCOURSE 1
 PERENNIAL

REDDY BRANCH

WATERCOURSE 2
 INTERMITTENT

START
 PROPOSED
 CHANNEL

BRIGHTON DAM RD

DEED LIBER 00274 FOLIO 00098
 HOWARD JOHN H & J H

IMPACT 1

MATCH LINE - SEE SHEET 5

PLOTTED: Monday, June 20, 2016 AT 03:32 PM
 FILE: S:\2014\Transportation\111138.06 MO746 MD 97 Brookeville Bypass\CADD\Century\Impact\Plates\Mitigation-1\Impact Plate 1.dgn

CENTURY
 ENGINEERING
 CONSULTING ENGINEERS - PLANNERS
 10710 GILROY ROAD
 HUNT VALLEY, MD 21031

DATE:
 JUNE 2016

SCALE:
 1" = 40'

DRAWN BY:
 D.V./C.R.

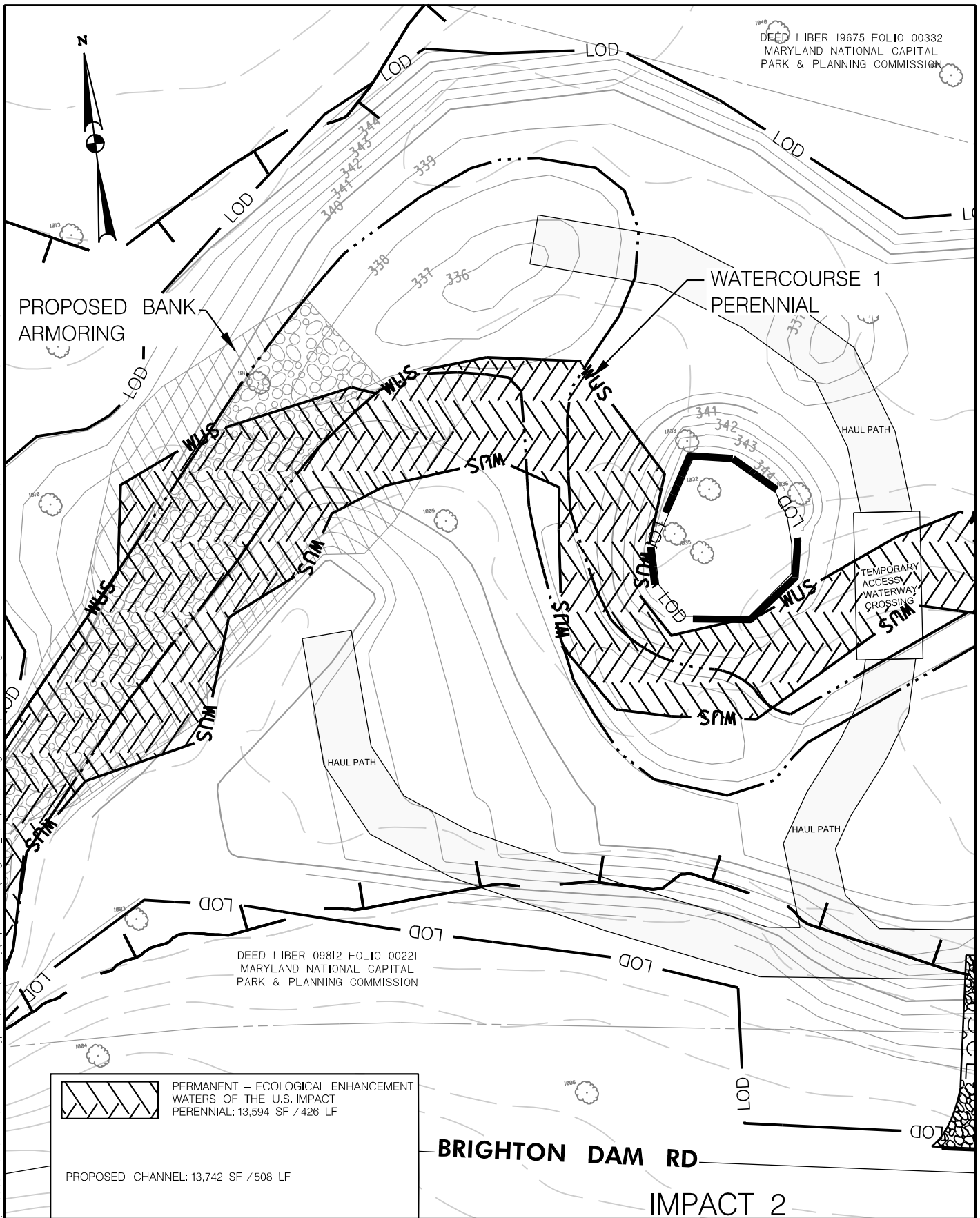
STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
 BROOKEVILLE, MONTGOMERY COUNTY - MITIGATION
 SITE

CONT. NO. MO7465171 FMS NO. MO746M21 SHEET NO. 4 OF 12
 PREL. TRAC. BY _____ FINAL TRAC. BY _____


1946
DEED LIBER 19675 FOLIO 00332
MARYLAND NATIONAL CAPITAL
PARK & PLANNING COMMISSION

MATCH LINE - SEE SHEET 4

MATCH LINE - SEE SHEET 6



DEED LIBER 09812 FOLIO 00221
MARYLAND NATIONAL CAPITAL
PARK & PLANNING COMMISSION

	PERMANENT - ECOLOGICAL ENHANCEMENT WATERS OF THE U.S. IMPACT PERENNIAL: 13,594 SF / 426 LF
PROPOSED CHANNEL: 13,742 SF / 508 LF	

BRIGHTON DAM RD

IMPACT 2

PLOTTED: Tuesday, June 21, 2016 AT 01:40 PM
FILE: S:\2014\Transportation\111138.06 MO746 MD 97 Brookeville Bypass\CADD\Century Impact Plates\Mitigation_2016\MD 97 Mitigation-Impact Plate 2.dgn

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

DATE:
JUNE 2016

SCALE:
1" = 40'

DRAWN BY:
D.V./C.R.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
BROOKEVILLE, MONTGOMERY COUNTY - MITIGATION
SITE

CONT. NO. MO7465171 FMIS NO. MO746M21 SHEET NO. 5 OF 12
PREL. TRAC. BY _____ FINAL TRAC. BY _____

DEED LIBER 19675 FOLIO 00332
 MARYLAND NATIONAL CAPITAL
 PARK & PLANNING COMMISSION

DEED LIBER 09812 FOLIO 00221
 MARYLAND NATIONAL CAPITAL
 PARK & PLANNING COMMISSION

PROPOSED CHANNEL: 6,853 SF /461 LF


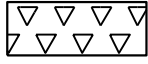
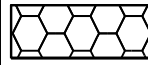

WATERCOURSE
 PERENNIAL

WETLAND E
 PFO1C

WETLAND E
 PEM1C

BRIGHTON DAM RD

IMPACT 3

	PERMANENT - ECOLOGICAL ENHANCEMENT WATERS OF THE U.S. IMPACT PERENNIAL: 12,879 SF /456 LF		TEMPORARY - WETLAND IMPACT PEM: 2,480 SF /0.057 AC
	PERMANENT - WETLAND IMPACT - PFO TO PEM: 1,103 SF /0.03 AC WETLAND TO STREAM CONVERSION: 532 SF /0.012 AC		PERMANENT - WETLAND BUFFER IMPACT 7,393 SF /0.17 AC

WETLAND
 HYDROLOGY WILL
 BE ALTERED SO
 THIS IS
 CONSIDERED
 PERMANENT
 IMPACT

CENTURY
 ENGINEERING
 CONSULTING ENGINEERS - PLANNERS
 10710 GILROY ROAD
 HUNT VALLEY, MD 21031

DATE:
 JUNE 2016
 SCALE:
 1" = 40'
 DRAWN BY:
 D.V./C.R.

STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
 BROOKEVILLE, MONTGOMERY COUNTY - MITIGATION
 SITE

CONT. NO. M07465171 FMIS NO. M0746M21 SHEET NO. 6 OF 12
 PREL. TRAC. BY FINAL TRAC. BY

MATCH LINE - SEE SHEET 5

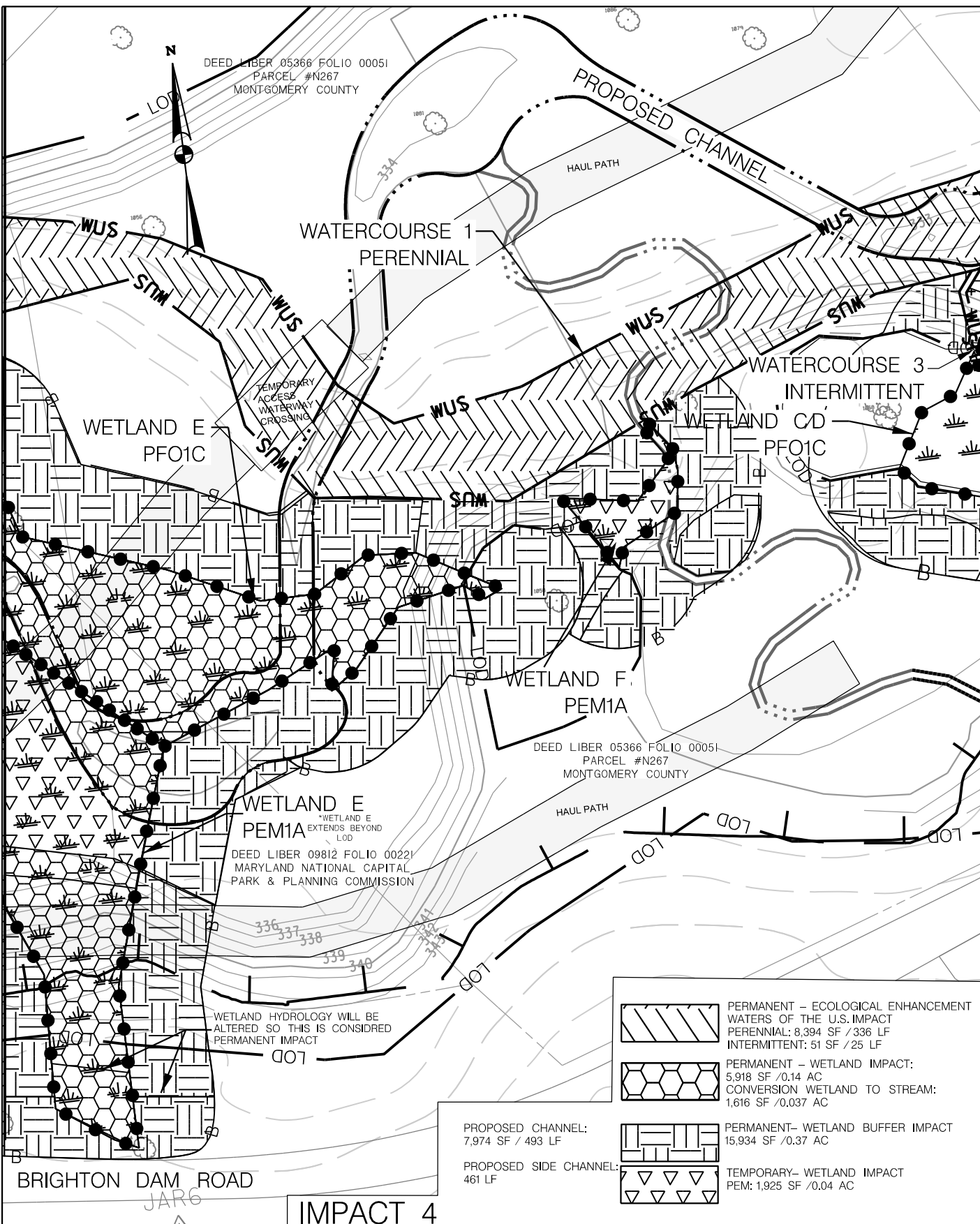
MATCH LINE - SEE SHEET 7

PLOTTED: Wednesday, June 22, 2016 AT 07:16 AM
 FILE: S:\2014\Transportation\111138.06 M0746 MD 97 Brookeville Bypass\CADD\Century Impact Plates\Mitigation_2016\MD 97 Mitigation-Impact Plate 3.dgn

PLOTTED: Thursday, June 23, 2016 AT 11:41 AM
 FILE: S:\2014\Transportation\11138.06 MO746.MD 97 Brookeville Bypass\CADD\Century Impact Plates\Mitigation_2016.MD 97 Mitigation-Impact Plate 4.dgn

MATCH LINE - SEE SHEET 6

MATCH LINE - SEE SHEET 8



IMPACT 4

	PERMANENT - ECOLOGICAL ENHANCEMENT WATERS OF THE U.S. IMPACT PERENNIAL: 8,394 SF / 336 LF INTERMITTENT: 51 SF / 25 LF
	PERMANENT - WETLAND IMPACT: 5,918 SF / 0.14 AC CONVERSION WETLAND TO STREAM: 1,616 SF / 0.037 AC
	PERMANENT- WETLAND BUFFER IMPACT 15,934 SF / 0.37 AC
	TEMPORARY- WETLAND IMPACT PEM: 1,925 SF / 0.04 AC
PROPOSED CHANNEL: 7,974 SF / 493 LF	
PROPOSED SIDE CHANNEL: 461 LF	

CENTURY ENGINEERING
 CONSULTING ENGINEERS - PLANNERS
 10710 GILROY ROAD
 HUNT VALLEY, MD 21031

DATE:
JUNE 2016

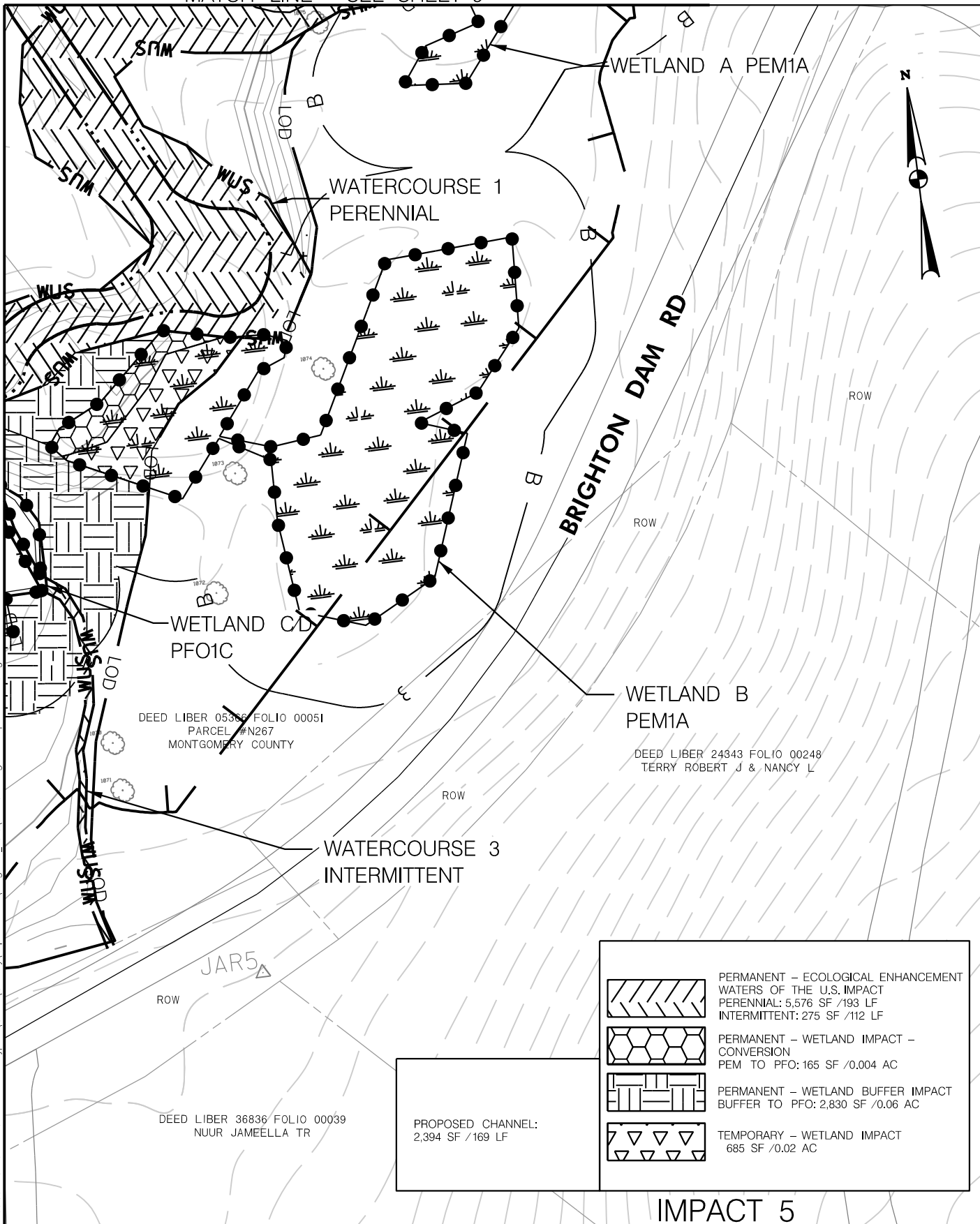
SCALE:
1" = 40'

DRAWN BY:
D.V./C.R.

STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
 BROOKEVILLE, MONTGOMERY COUNTY - MITIGATION
 SITE

MATCH LINE - SEE SHEET 9

MATCH LINE - SEE SHEET 7



PLOTTED: Wednesday, June 22, 2016 AT 09:57 AM
 FILE: S:\2014\Transportation\111138.06 MO746 MD 97 Brookeville Bypass\CADD\Century\Impact Plates\Mitigation_2016\MD 97 Mitigation-Impact Plate 5.dgn

PROPOSED CHANNEL:
2,394 SF / 169 LF

	PERMANENT - ECOLOGICAL ENHANCEMENT WATERS OF THE U.S. IMPACT PERENNIAL: 5,576 SF / 193 LF INTERMITTENT: 275 SF / 112 LF
	PERMANENT - WETLAND IMPACT - CONVERSION PEM TO PFO: 165 SF / 0.004 AC
	PERMANENT - WETLAND BUFFER IMPACT BUFFER TO PFO: 2,830 SF / 0.06 AC
	TEMPORARY - WETLAND IMPACT 685 SF / 0.02 AC

IMPACT 5

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

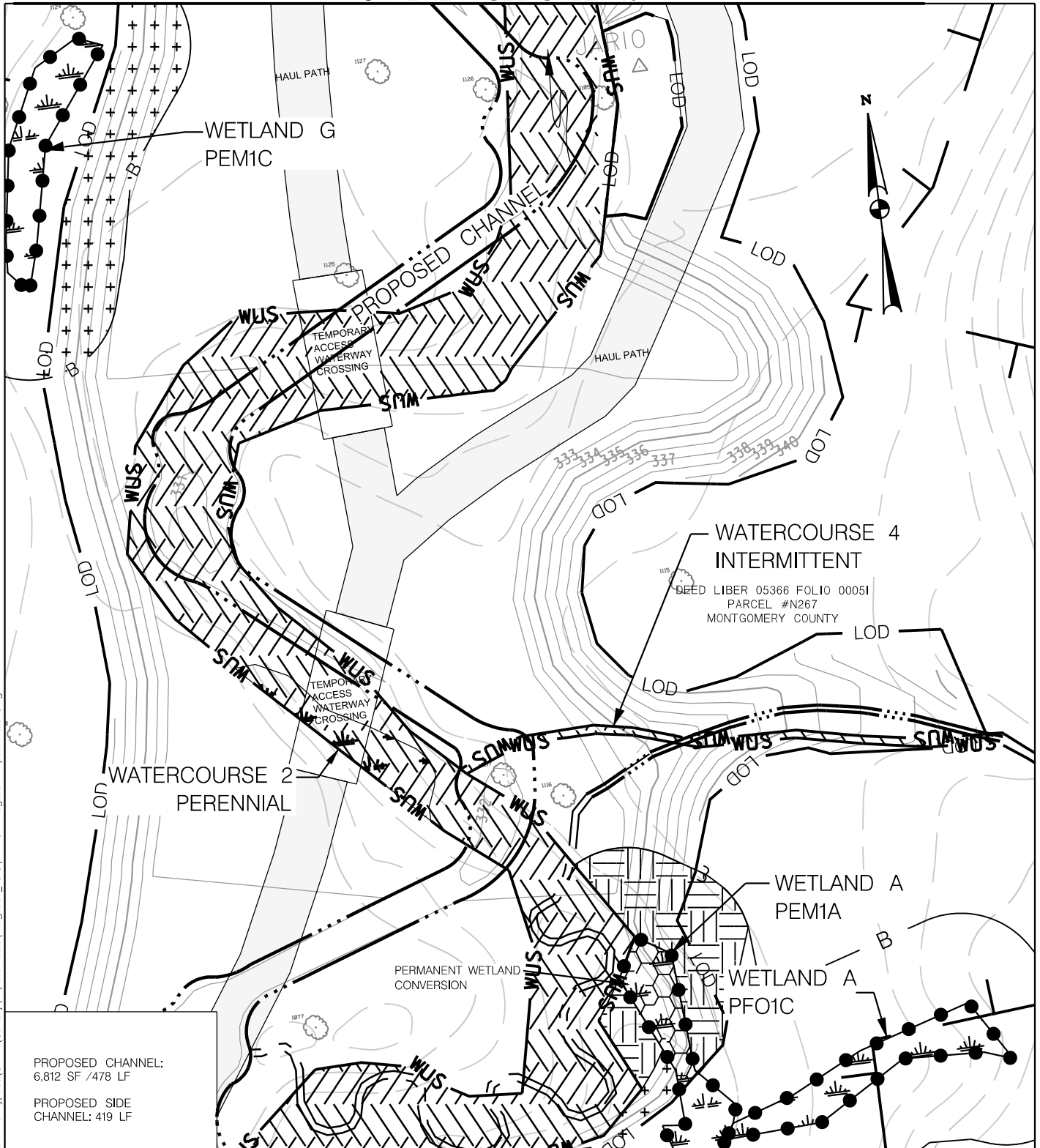
DATE:
JUNE 2016

SCALE:
1" = 40'

DRAWN BY:
D.V./C.R.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
BROOKEVILLE, MONTGOMERY COUNTY - MITIGATION
SITE

CONT. NO. MO7465171 FMIS NO. MO746M21 SHEET NO. 8 OF 12
PREL. TRAC. BY _____ FINAL TRAC. BY _____



PLOTTED: Wednesday, June 22, 2016 AT 08:17 AM
 FILE: S:\2014\Transportation\111133.06 M0746 MD 97 Brookeville Bypass\CADD\Century Impact Plates\Mitigation_2016 MD 97 Mitigation-Impact Plate 6.dgn

MATCH LINE - SEE SHEET 7

MATCH LINE - SEE SHEET 8

	PERMANENT - ECOLOGICAL ENHANCEMENT WATERS OF THE U.S. IMPACT PERENNIAL: 12,837 SF / 488 LF INTERMITTENT: 330 SF / 152 LF
	PERMANENT WETLAND IMPACT: 330 SF / 0.008 AC CONVERSION PEM TO PFO: 107 SF / 0.002 AC

	TEMPORARY - WETLAND BUFFER IMPACT 2,199 SF / 0.05 AC
	PERMANENT - WETLAND BUFFER IMPACT BUFFER TO PFO: 1641 SF / 0.04 AC

IMPACT 6

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

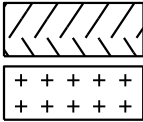
DATE: JUNE 2016
SCALE: 1" = 40'
DRAWN BY: D.V./C.R.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
BROOKEVILLE, MONTGOMERY COUNTY - MITIGATION
SITE

CONT. NO. M07465171	FMIS NO. M0746M21	SHEET NO. 9 OF 12
PREL. TRAC. BY	FINAL TRAC. BY	



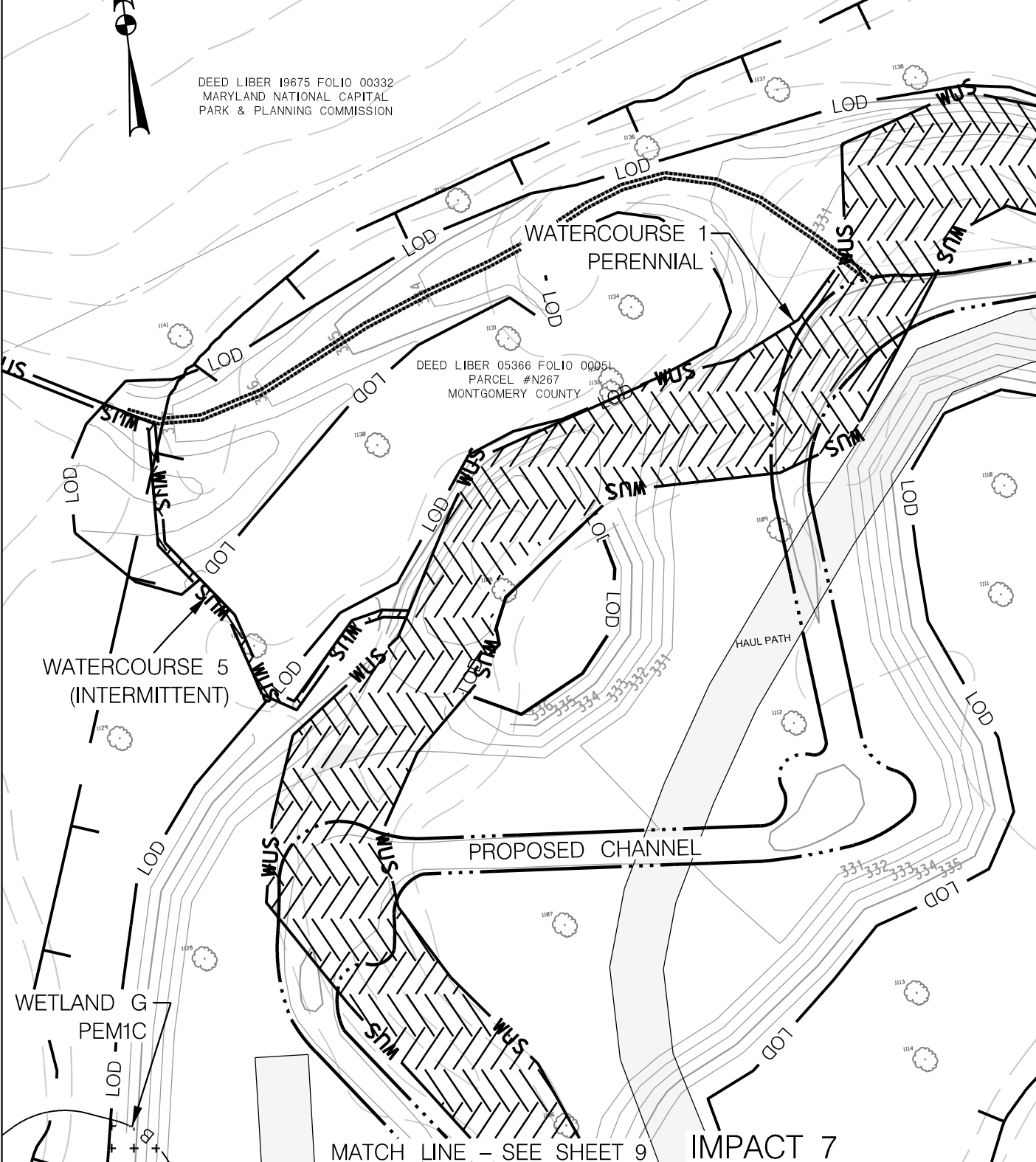
PROPOSED CHANNEL: 6,321 SF / 443 LF



PERMANENT - ECOLOGICAL ENHANCEMENT WATERS OF THE U.S. IMPACT
 PERENNIAL: 12,211 SF / 0.280 AC / 422 LF
 INTERMITTENT: 308 SF / 0.007 AC / 153 LF
 TEMPORARY - WETLAND BUFFER IMPACT
 147 SF / 0.003 AC

DEED LIBER 19675 FOLIO 00332
 MARYLAND NATIONAL CAPITAL
 PARK & PLANNING COMMISSION

DEED LIBER 05366 FOLIO 00051
 PARCEL #N267
 MONTGOMERY COUNTY



MATCH LINE - SEE SHEET 11

WATERCOURSE 5
 (INTERMITTENT)

WATERCOURSE 1
 PERENNIAL

PROPOSED CHANNEL

WETLAND G
 PEM1C

HAUL PATH

MATCH LINE - SEE SHEET 9

IMPACT 7

PLOTTED: Wednesday, June 22, 2016 AT 08:20 AM
 FILE: S:\2014\Transportation\111133.06 MO746 MD 97 Brookeville Bypass\CADD\Century\Impact\Plates\Mitigation_2016\MD 97 Mitigation-Impact Plate 7.dgn

CENTURY
 ENGINEERING
 CONSULTING ENGINEERS - PLANNERS
 10710 GILROY ROAD
 HUNT VALLEY, MD 21031

DATE:
 JUNE 2016

SCALE:
 1" = 40'

DRAWN BY:
 D.V./C.R.

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 MD 97 SOUTH OF BROOKEVILLE TO NORTH OF
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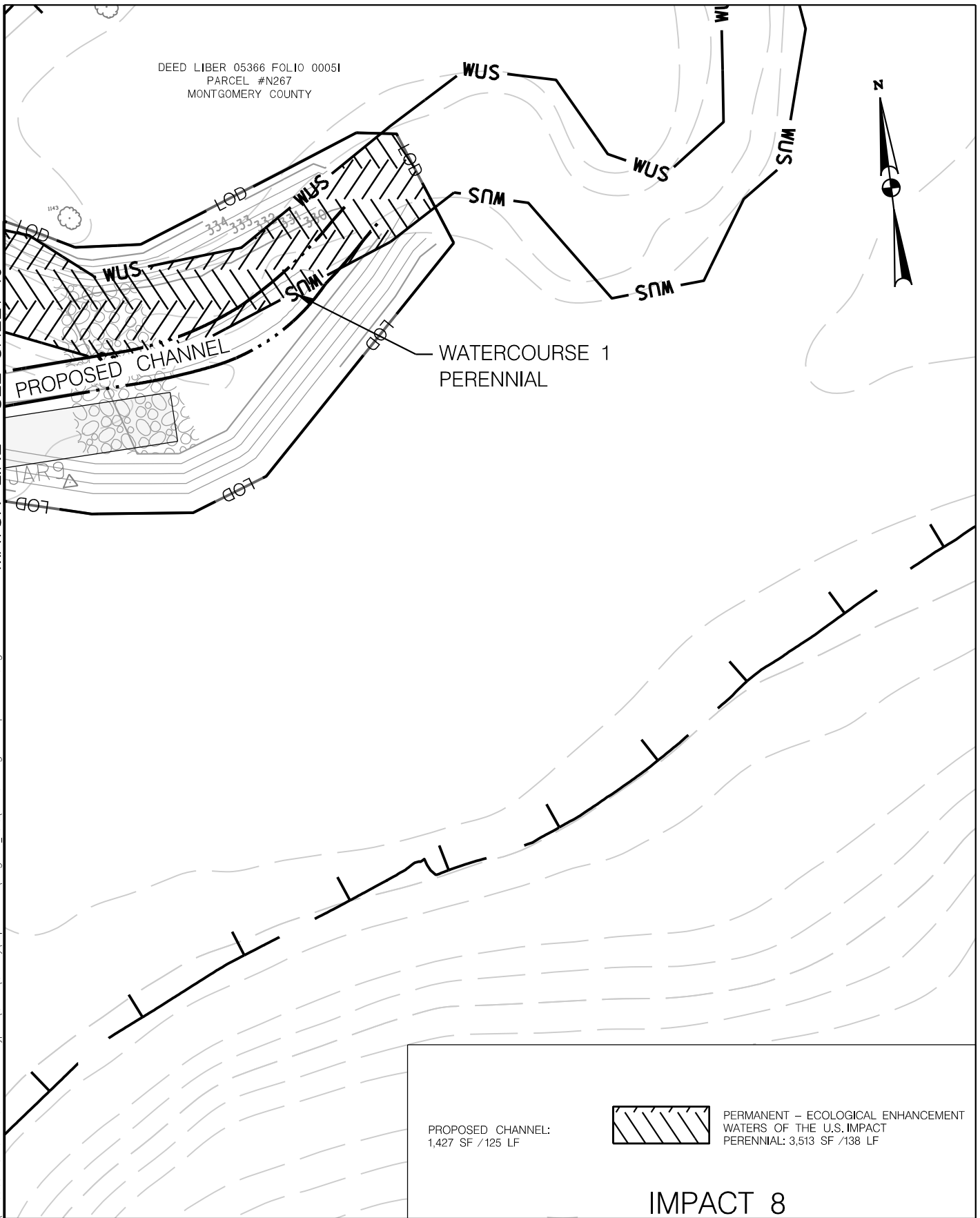
CONT. NO. MO7465171 FMIS NO. MO746M21 SHEET NO. 10 OF 12
 PREL. TRAC. BY _____ FINAL TRAC. BY _____

DEED LIBER 05366 FOLIO 00051
 PARCEL #N267
 MONTGOMERY COUNTY



MATCH LINE - SEE SHEET 10

PLOTTED: Wednesday, June 22, 2016 AT 08:22 AM
 FILE: S:\2014\Transportation\111138.06 MO746 MD 97 Brookeville Bypass\CADD\Century\Impact\Plates\Mitigation_2016\MD 97 Mitigation-Impact Plate 8.dgn



PROPOSED CHANNEL: 1,427 SF / 125 LF	PERMANENT - ECOLOGICAL ENHANCEMENT WATERS OF THE U.S. IMPACT PERENNIAL: 3,513 SF / 138 LF
--	---

IMPACT 8

CENTURY
 ENGINEERING
 CONSULTING ENGINEERS - PLANNERS
 10710 GILROY ROAD
 HUNT VALLEY, MD 21031

DATE:
 JUNE 2016

SCALE:
 1" = 40'

DRAWN BY:
 D.V./C.R.

STATE OF MARYLAND
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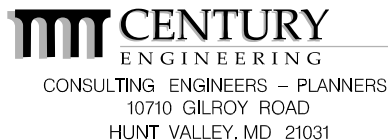
CONT. NO. MO7465171 FMIS NO. MO746M21 SHEET NO. 11 OF 12
 PREL. TRAC. BY _____ FINAL TRAC. BY _____

TOTALS

PLATE #	WETLAND CREATION FOR MITIGATION	ADDITIONAL CREATED WETLAND (PEM)	ADDITIONAL CREATED WETLAND (PFO)	TOTAL FLOODPLAIN IMPACTS : 368,325 SF / 8.456 AC NET: 42,472 CY (CUT)
IMPACT 1	_____	_____	_____	PROPOSED CHANNELS: 45,523 SF / 2,677 LF SIDE TRIBUTARIES: 880 LF
IMPACT 2	411 SF / 0.009 AC	3,905 SF / 0.090 AC	15,610 SF / 0.358 AC	
IMPACT 3	24,872 SF / 0.571 AC	23,573 SF / 0.541 AC	10,193 SF / 0.234 AC	PERMANENT WUS IMPACT BREAKDOWN PERENNIAL: 76,512 SF / 2,661 LF INTERMITTENT: 964 SF / 442 LF
IMPACT 4	31,118 SF / 0.714 AC	4,250 SF / 0.098 AC	15,245 SF / 0.350 AC	
IMPACT 5	4,771 SF / 0.110 AC	_____	2,190 SF / 0.050 AC	
IMPACT 6	26,503 SF / 0.608 AC	_____	9,236 SF / 0.212 AC	
IMPACT 7	14,802 SF / 0.340 AC	_____	9,937 SF / 0.228 AC	
IMPACT 8	2,319 SF / 0.053 AC	_____	1,130 SF / 0.026 AC	
TOTALS	104,796 SF / 2.406 AC	31,728 SF / 0.729 AC	63,541 SF / 1.458 AC	

IMPACT TOTALS

PLOTTED: Thursday, June 23, 2016 AT 11:33 AM
 FILE: S:\2014\Transportation\111138.06 MO746 MD 97 Brookeville Bypass\CADD\Century\Impact Plates\Mitigation_2016\MO 746 MD 97-Impact Plate_Mitigation_Totals 1.dgn



DATE:
JUNE 2016

SCALE:
N/A

DRAWN BY:
D.V./C.R.

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CONT. NO. MO7465171 FMIS NO. MO746M21 SHEET NO. 12 OF 12
 PREL. TRAC. BY _____ FINAL TRAC. BY _____