



U.S. Army Corps
of Engineers
Baltimore District

Public Notice

In Reply to Application Number
CENAB-OPR-M (Dorseyville Run Sewer Interceptor)
2017-60917-M38

PN 18-23

Comment Period: May 1, 2018 to June 1, 2018

THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC REGARDING THE WORK DESCRIBED BELOW. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.

This District has received an application for a Department of the Army permit pursuant to **Section 404 of the Clean Water Act (33. U.S.C. 1344)** as described below:

APPLICANT: Mr. Kin Siew, P.E.
Howard County Dept. of Public Works
Utility Design Division, 9250 Bendix Road
Columbia, Maryland 21045

WATERWAY AND LOCATION: The proposed project extends from south of Route 1 (Washington Blvd.) / Assateague Dr. intersection to the pump station at the terminus of Patuxent Range Rd, east of Dorsey Run Rd., located in Dorsey Run, Jessup, Howard County, Maryland.

PROPOSED WORK: The Howard County Department of Public Works (HCDPW) Utility Design Division (UDD) proposes replacement of the existing Dorsey Run sanitary sewer interceptor, within an approximately 2.5 mile project corridor. Sewer interceptor improvements are needed to prevent potential wastewater overflows and surcharge flow conditions under existing and future zoning densities. The project involves primarily in-trench replacement of the existing interceptor pipe along the existing sewer easement. Several discrete segments of parallel pipe will be constructed along a new alignment to shift the pipe away from the stream bank of Dorsey Run. A new pipe segment will be constructed to provide more efficient conveyance of sewage from the existing pipe alignment directly to the Dorsey Run Pumping Station at the southern end of the project area. The project will result in the following impacts to aquatic resources:

- Temporarily impact 1.76 acres of Palustrine Emergent Wetlands (PEM), 0.23 acres of Palustrine Scrub-Shrub Wetlands (PSS) and 2.87 acres of Palustrine Forested Wetland (PFO) associated with the sewer line installation.
- Temporarily impact 1,618 linear feet (lf) of stream channel associated with the sewer line installation.
- Permanently stabilize 810 linear feet (lf) of stream channel with rock and live stakes.

In order to restore temporarily impacted aquatic resources on-site, approximately 1.76 acres

of PEM wetlands will be seeded with a wetland seed mix after construction, 0.25 acres of PSS wetland will be planted with shrubs/small woody vegetation and 1.63 acres of PFO wetland will be planted with trees (2.87 restored canopy closure). All work will be completed in accordance with the enclosed plans dated January 2018.

If you have any questions concerning this matter, please contact Mr. Donald Bole at 410-962-6079 or Donald.R.Bole@usace.army.mil.

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

The Corps of Engineers is soliciting comments 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 of Engineers to determine whether to issue, modify, condition or deny a 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 need for a public hearing and to determine the overall public interest of the proposed activity.

Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, [Attn: Mr. Donald Bole, CENAB-OPR-M], U.S. Army Corps of Engineers, 2 Hopkins Plaza, Baltimore, MD 21201 or Donald.R.Bole@usace.army.mil, within the comment period specified above.

WATER QUALITY CERTIFICATION: The applicant is required to obtain a water quality certification in accordance with Section 401 of the Clean Water Act from the Maryland Department of the Environment. Any written comments concerning the work described above which relate to water quality certification must be received by the 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.

FEDERALLY LISTED SPECIES: 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.

HISTORIC AND ARCHEOLOGICAL RESOURCES: Review of the latest published version of the National Register of Historic Places indicates that no registered properties listed as eligible for inclusion, therein, are located at the site of the proposed work. Currently unknown archeological, scientific, prehistoric, or historical data may be lost or destroyed by the work to be accomplished under the request permit.

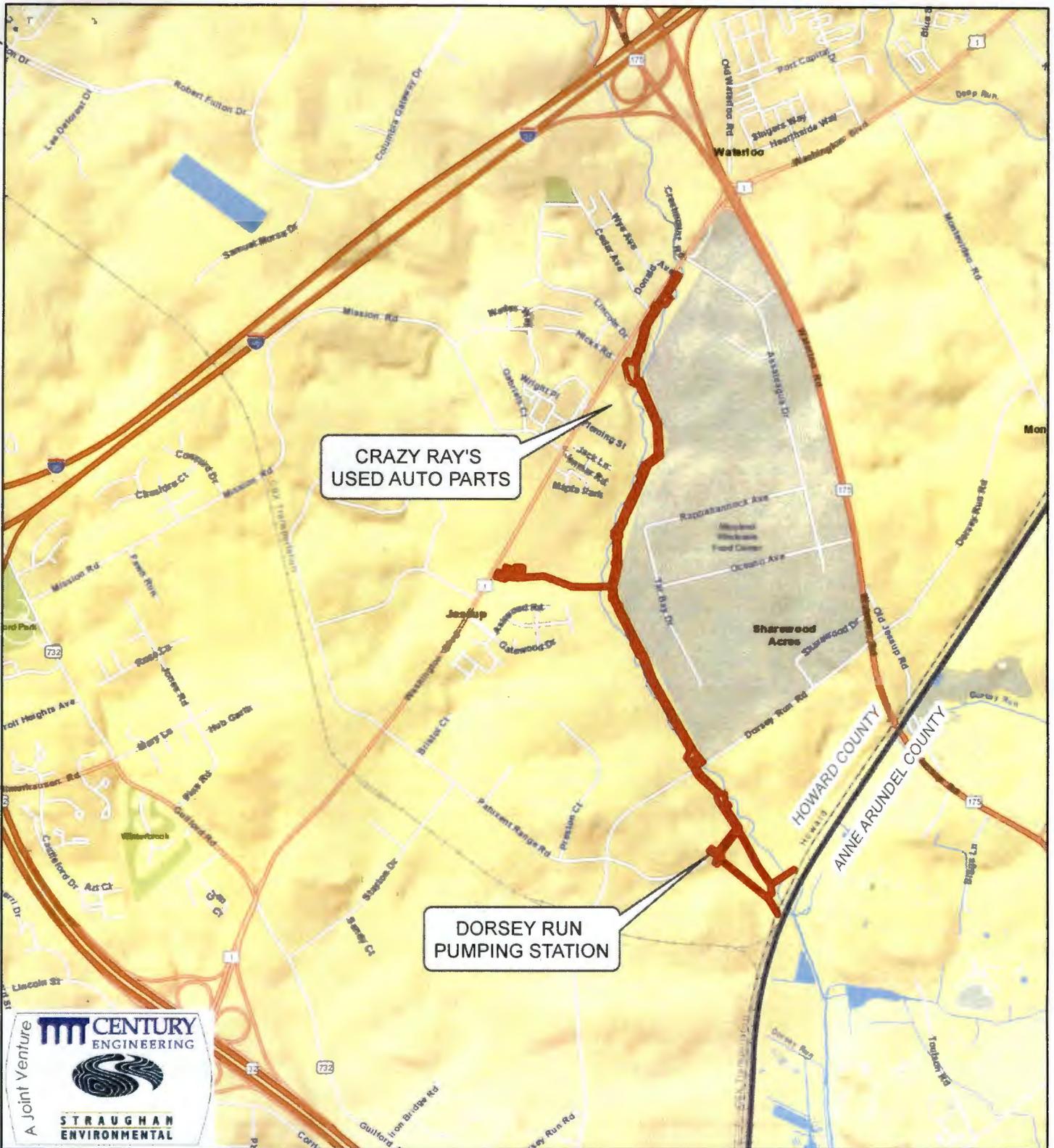
Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, [Attn: Mr. Donald Bole, CENAB-OP-RMN], U.S. Army Corps of Engineers, 2 Hopkins Plaza, Baltimore, MD 21201, within the comment period as specified above to receive consideration. Also, it must clearly set forth the interest which may be adversely affected by this activity and the manner in which the interest may be adversely affected.

It is requested that you communicate this information concerning the proposed work to any persons know by you to be interested and not being known to this office, who did not receive a copy of this notice.

FOR THE DISTRICT ENGINEER:



Joseph P. DaVia
Chief, Maryland Section Northern



LEGEND

-  2017 30% LOD
-  County Boundary

SCALE 1 inch = 2,000 feet



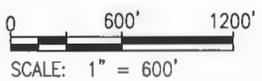
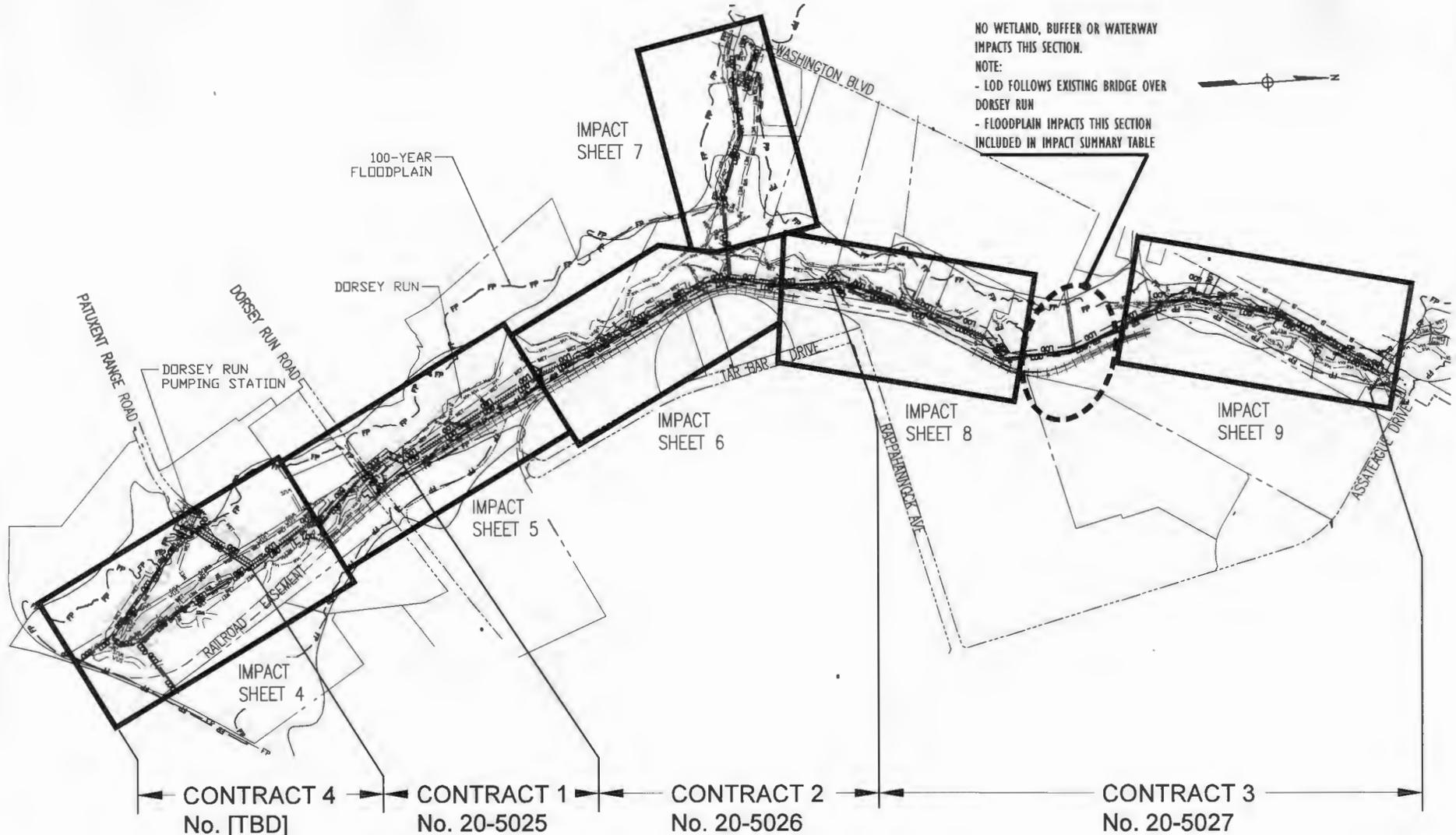
SITE LOCATION MAP

DORSEY RUN INTERCEPTOR IMPROVEMENT PROJECT (S-6281)

Howard County, Maryland

April 2017

NO WETLAND, BUFFER OR WATERWAY IMPACTS THIS SECTION.
 NOTE:
 - LOD FOLLOWS EXISTING BRIDGE OVER DORSEY RUN
 - FLOODPLAIN IMPACTS THIS SECTION INCLUDED IN IMPACT SUMMARY TABLE



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND.

DIRECTOR OF PUBLIC WORKS _____ DATE _____
 CHIEF, BUREAU OF ENGINEERING _____ DATE _____
 CHIEF, BUREAU OF UTILITIES _____ DATE _____
 CHIEF, UTILITY DESIGN DIVISION _____ DATE _____

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 24178, EXPIRATION DATE: 10/28/17.

PREPARED BY:
WRA
 Whitman, Reardon & Associates, LLP
 801 South Carolina Street, Baltimore, Maryland 21201

TRC CENTURY
 ENGINEERING
 A TRC COMPANY
 STRAUBER & ASSOCIATES
 ENVIRONMENTAL

DES: X.X			
DRN: X.X			
OPR: X.X			
OCTOBER 2016	BY	NO.	REVISION

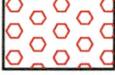
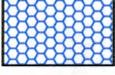
IMPACT LOCATION MAP

DATE: _____ 600 SCALE MAP NO. _____ BLOCK NO. _____

DORSEY RUN INTERCEPTOR IMPROVEMENTS
 CAPITAL PROJECT NO. S-6281
 CONTRACT NOS. 20-5025, 20-5026, 20-5027
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 11

LEGEND

-  WETLAND PEM IMPACT
-  WETLAND PFO IMPACT
-  WETLAND PSS IMPACT
-  WETLAND BUFFER IMPACT
-  TEMPORARY WUS IMPACT
-  PERMANENT WUS IMPACT
-  TEMPORARY CONSTRUCTION EASEMENT

-  WUS WATERS OF THE US BOUNDARY
-  WET NONTIDAL WETLAND BOUNDARY
-  WB NONTIDAL WETLAND BUFFER (25 FT)
-  LOD LIMIT OF DISTURBANCE
-  PROPOSED SEWER LINE
-  EXISTING SEWER LINE
-  FP 100-YEAR FLOODPLAIN (FEMA)
-  EXISTING EASEMENT
-  PROPOSED EASEMENT
-  PROPERTY LINE
-  VEGETATION MANAGEMENT ZONE (VMZ)



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND.

DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF ENGINEERING DATE
CHIEF, BUREAU OF UTILITIES DATE CHIEF, UTILITY DESIGN DIVISION DATE

"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 26476, EXPIRATION DATE: 10/28/12."

PREPARED BY:



Whitman, Reardon & Associates, LLP
801 South Carolina Street, Baltimore, Maryland 21251



CENTURY ENGINEERING
A Great Northern CORPORATION

DES: X.X					
DRN: X.X					
CH: X.X					
OCTOBER 2018	BY	NO.	REVISION	DATE	600 SCALE MAP NO.

LEGEND

DORSEY RUN INTERCEPTOR IMPROVEMENTS
CAPITAL PROJECT NO. S-62B1
CONTRACT NOS. 20-5025, 20-5026, 20-5027
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 8

IMPACT SUMMARY TABLE											
	WETLAND			BUFFER	WATERWAY						FLOODPLAIN IMPACTS (SF)
	TEMPORARY IMPACTS			TEMPORARY IMPACTS	TEMPORARY IMPACTS				PERMANENT IMPACTS		
	PEM MDE & USACE (SF)	PSS MDE & USACE (SF)	PFO MDE & USACE (SF)	MDE (SF)	USACE (SF)	MDE (SF)	USACE (LF)	MDE (LF)	USACE (SF)	USACE (LF)	
Contract 1 No. 20-5025	1,897	0	53,662	27,610	11,132	14,794	436	632	3,662	196	115,136
Contract 2 No. 20-5026	39,308	0	63,372	55,774	6,199	8,351	432	520	3,093	157	207,451
Contract 3 No. 20-5027	26,386	10,090	3,961	41,533	10,722	15,599	616	1,071	4,877	457	197,495
Contract 4 No. TBD	8,841	0	3,824	18,287	1,674	1,674	134	134	0	0	46,636
TOTALS	76,432	10,090	124,819	143,204	29,727	40,418	1,618	2359	11,632	810	566,718

NOTES:

1. ALL PFO/PSS WETLANDS AND FORESTED WETLAND BUFFERS WILL BE REPLANTED UP TO THE LIMITS OF THE VMZ AS DEPICTED IN THE IMPACT GRAPHICS AND RESTORATION PLANS.
2. ALL FLOODPLAIN IMPACTS ARE TEMPORARY EXCEPT FOR 109 CY OF NET FILL RESULTING FROM INSTALLATION OF NEW MANHOLES.

WETLAND IMPACT/RESTORATION SUMMARY*		
SCRUB-SHRUB (PSS) WETLAND	SF	AC
TOTAL SCRUB-SHRUB (PSS) WETLAND CLEARED	10,090	0.23
TOTAL SCRUB-SHRUB (PSS) WETLAND PLANTED	10,819	0.25
TOTAL SCRUB-SHRUB (PSS) WETLAND RESTORED	10,819	0.25
FORESTED (PFO) WETLAND		
TOTAL FORESTED (PFO) WETLAND CLEARED	124,818	2.87
TOTAL FORESTED (PFO) WETLAND PLANTED	71,039	1.63
TOTAL FORESTED (PFO) WETLAND CANOPY RESTORED**	124,818	2.87
* EMERGENT (PEM) WETLAND IMPACTS (75,436 SF / 1.76 AC) FULLY RESTORED VIA WETLAND SEEDING.		
** RESTORATION PLANTINGS ARE LOCATED WITHIN LOD/PLOD UP TO VMZ (VEGETATION MANAGEMENT ZONE) TO REESTABLISH AND/OR CREATE FORESTED CANOPY COVER OVER VMZ, THEREBY RESTORING FOOTPRINT OF IMPACTED WETLANDS AND BUFFERS. SCRUB-SHRUB WETLAND CONDITIONS WILL BE REESTABLISHED UP TO VMZ IN WPO29/WPO31 WETLAND COMPLEX.		



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND.

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 21476, EXPIRATION DATE: 10/25/17.

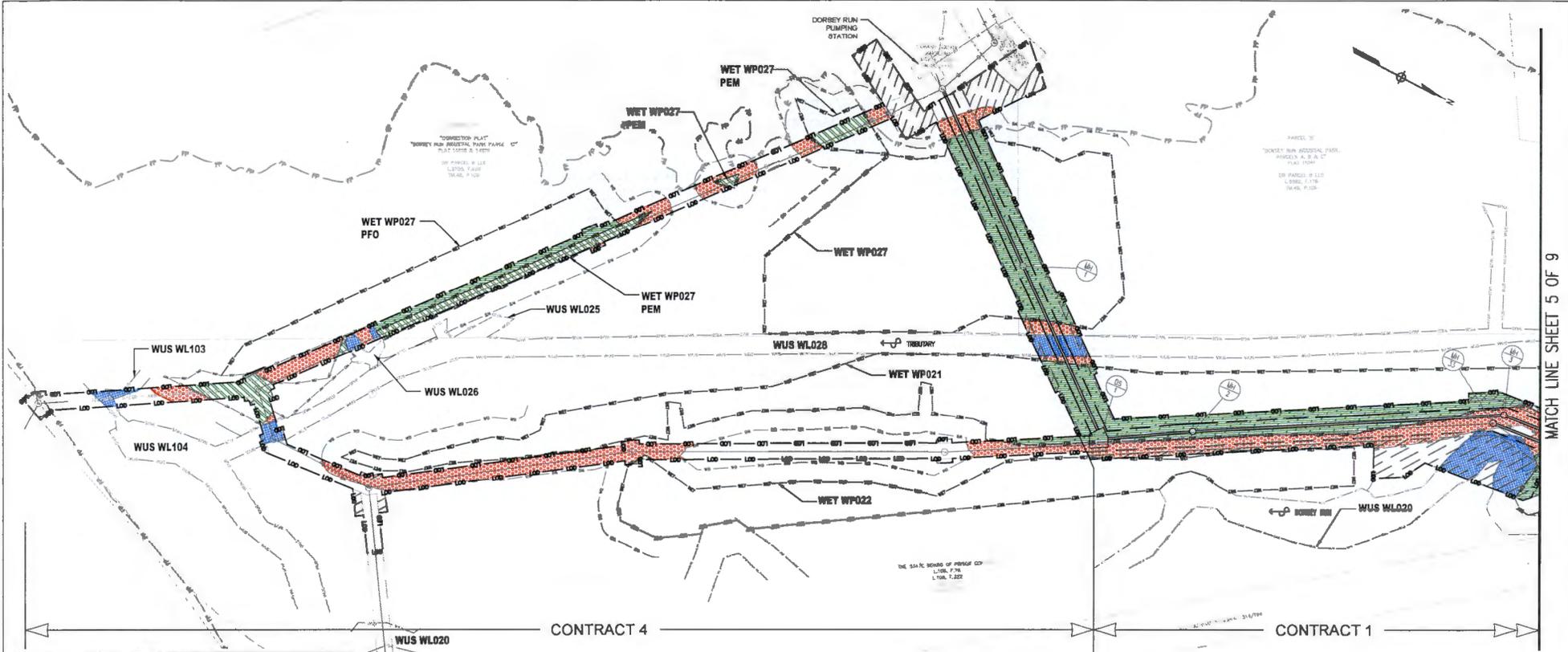


DES. XX.	
DRN. XX.	
CHK. XX.	

PROJECT IMPACT
TOTALS

DORSEY RUN INTERCEPTOR IMPROVEMENTS
CAPITAL PROJECT NO. S-6281
CONTRACT NOS. 20-5025, 20-5026, 20-5027
3RD ELECTION DISTRICT

SCALE
AS SHOWN
SHEET
3 OF 5



**SHEET 4 - CONTRACT 4
IMPACT SUMMARY TABLE**

WETLAND	DUMPS				WATERWAY				PERMANENT IMPACTS (SQ)	FLOODPLAIN IMPACTS (SQ)
	TEMPORARY IMPACTS									
	AREA & USACE (SQ)									
WET021	88	1,267	2,733							
WET022				636	636	39	39			
WET023				440	440	41	41			
WET024				244	244	39	39			
WET025				340	340	24	24			
WET026										
WET027										
TOTALS	8,841	8,824	18,287	1,674	1,674	138	138	0	0	

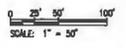
**SHEET 4 - CONTRACT 1
IMPACT SUMMARY TABLE**

WETLAND	DUMPS				WATERWAY				PERMANENT IMPACTS (SQ)	FLOODPLAIN IMPACTS (SQ)
	TEMPORARY IMPACTS									
	AREA & USACE (SQ)									
WET021	88	1,267	2,733							
WET022				636	636	39	39			
WET023				440	440	41	41			
WET024				244	244	39	39			
WET025				340	340	24	24			
WET026										
WET027										
TOTALS	887	34,284	35,882	6,419	7,847	186	314	3,194	138	

LEGEND

- WETLAND PFO IMPACT
- WETLAND PEM IMPACT
- WETLAND PFO IMPACT
- WETLAND BUFFER IMPACT
- TEMPORARY TUB IMPACT
- PERMANENT TUB IMPACT

NOTES:
 1. "DORSEY RUN WETLANDS" MAPS 2A, 1A & C
 2. INTERSECTIONS OF SHEET 1
 3. PLAT 8004
 4. RICHARD C. SANDERS
 5. LICENSE # 11304



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 34478, EXPIRATION DATE: 10/30/11.

WRA
 Whitman, Reardon & Associates, LLP
 901 South Caroline Street, Baltimore, Maryland 21201

MTCENTURY
 CONSULTING
 A Joint Venture
 STRASSER
 ENVIRONMENTAL

DESIGNER:	J.L.				
DRAWN BY:	J.L.				
CHECKED BY:	J.L.				
DATE:	OCTOBER 2018	BY:	NO.	REVISION:	DATE AND SCALE MAP NO.

**IMPACT SHEET 4
 (CONTRACTS 4 & 1)**

DORSEY RUN INTERCEPTOR IMPROVEMENTS
 CAPITAL PROJECT NO. S-5281
 CONTRACT NOS. 20-5025, 20-5026, 20-5027
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN
 SHEET 4 OF 9

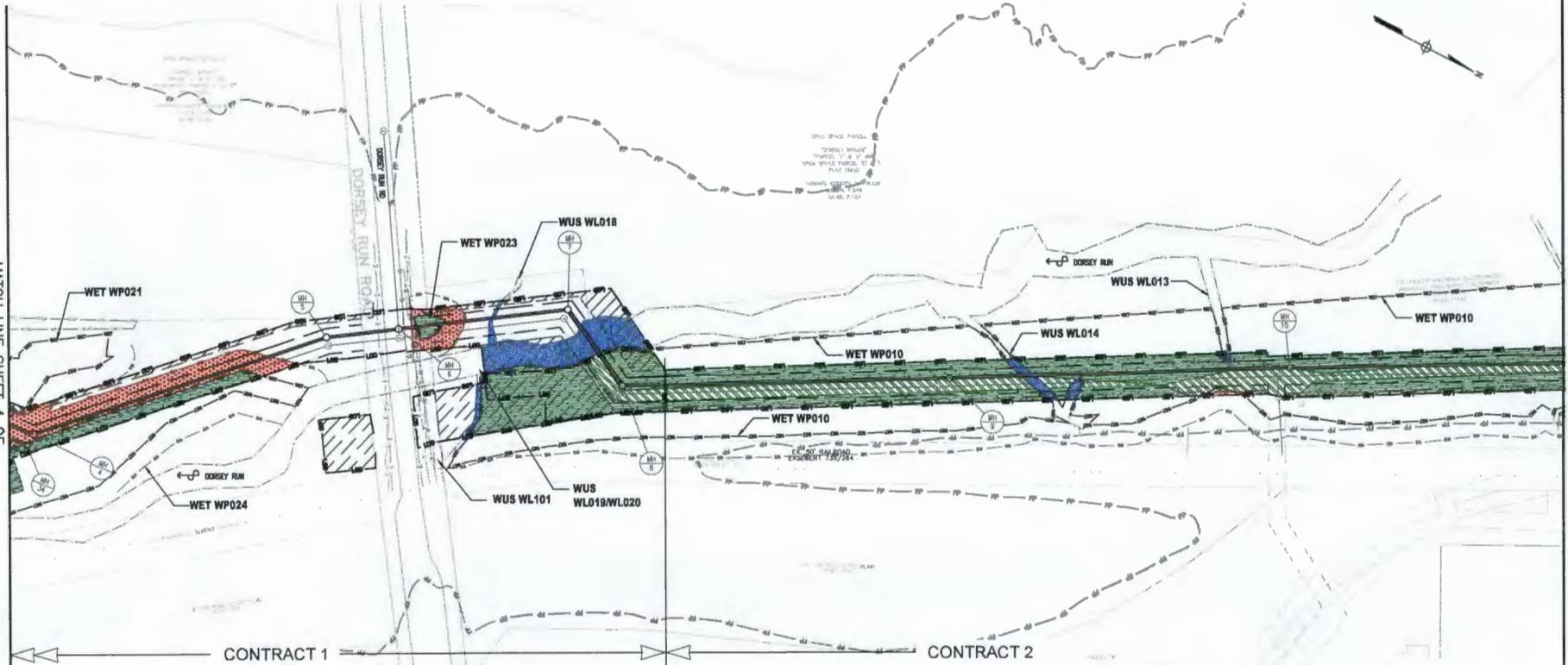
Howard County
 MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS: _____ DATE: _____
 CHIEF, BUREAU OF UTILITIES: _____ DATE: _____
 CHIEF, UTILITY DESIGN DIVISION: _____ DATE: _____

MATCH LINE SHEET 4 OF

MATCH LINE SHEET 6 OF 9



**SHEET 5 - CONTRACT 1
IMPACT SUMMARY TABLE**

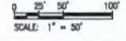
WETLAND TYPE	TEMPORARY IMPACTS		WETLAND LOSS				PERMANENT IMPACTS		FLOODPLAIN IMPACTS (SQ)	
	AREA (SQ)	PERCENT	AREA (SQ)	PERCENT	AREA (SQ)	PERCENT	AREA (SQ)	PERCENT		
WETLAND LOSS	1,470	19.57%	11,628	4,679	3,147	200	218	2,468	78	81,000

THIS IS THE END OF CONTRACT 1 AND BEGINNING OF CONTRACT 2

LEGEND

- WETLAND FPD IMPACT
- WETLAND FPD IMPACT
- WETLAND FPD IMPACT
- WETLAND BUFFER IMPACT
- TEMPORARY WLS IMPACT
- PERMANENT WLS IMPACT

NOTE: EXTREME LIMITS OF DISTURBANCE ARE WITHIN FEMA 100-YEAR FLOODPLAIN (THIS SHEET).



**SHEET 5 - CONTRACT 2
IMPACT SUMMARY TABLE**

WETLAND TYPE	TEMPORARY IMPACTS		WETLAND LOSS				PERMANENT IMPACTS		FLOODPLAIN IMPACTS (SQ)	
	AREA (SQ)	PERCENT	AREA (SQ)	PERCENT	AREA (SQ)	PERCENT	AREA (SQ)	PERCENT		
WETLAND LOSS	13,212	36,600	352	600	1,224	79	148	202	23	22,000



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND.

DIRECTOR OF PUBLIC WORKS DATE: _____ CHIEF, BUREAU OF ENGINEERING DATE: _____
CHIEF, BUREAU OF UTILITIES DATE: _____ CHIEF, UTILITY DESIGN DIVISION DATE: _____

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 24476, EXPIRATION DATE: 10/26/17.

PREPARED BY: _____

WRA
Whitman, Requardt & Associates, LLP
801 South Carolina Street, Baltimore, Maryland 21201

DES: J.K.
DWN: J.K.
CHK: J.K.

OCTOBER 2019 BY: _____ NO. _____ REVISION: _____ DATE: _____

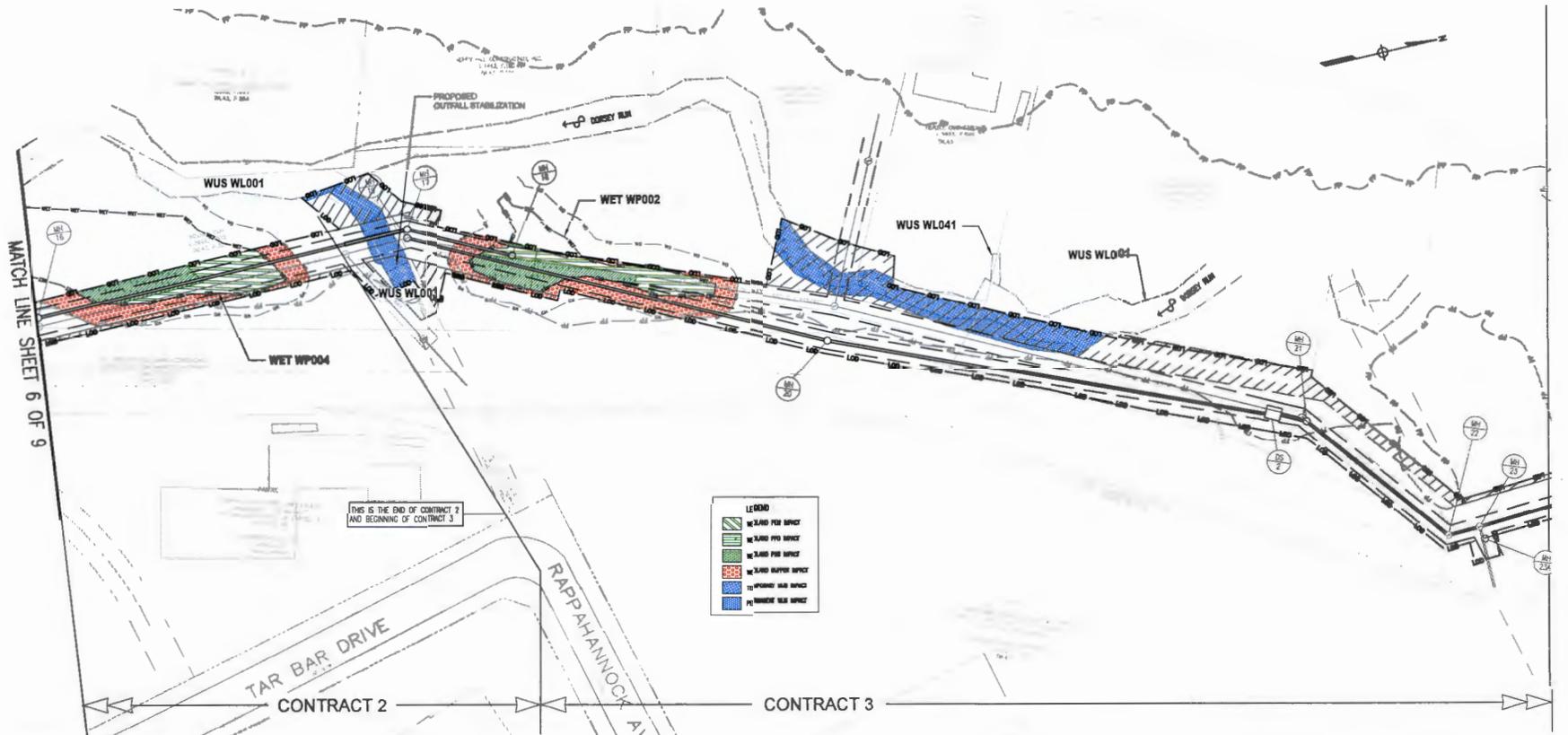
IMPACT SHEET 5
(CONTRACTS 1 & 2)

DORSEY RUN INTERCEPTOR IMPROVEMENTS
CAPITAL PROJECT NO. 5-6281
CONTRACT NOS. 20-5025, 20-5026, 20-5027

3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

IMPACT GRAPHICS - JANUARY 2018

SCALE AS SHOWN
SHEET 5 OF 5



MATCH LINE SHEET 6 OF 9

THIS IS THE END OF CONTRACT 2 AND BEGINNING OF CONTRACT 3

LEGEND

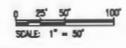
- WETLAND LOSS IMPACT
- WETLAND BUFFER IMPACT
- WETLAND PRESERVATION IMPACT
- WETLAND RESTORATION IMPACT

SHEET 8 - CONTRACT 2
IMPACT SUMMARY TABLE

WETLAND TYPE	LOSS		BUFFER				PRESERVATION				RESTORATION		NET LOSS
	ACRES	LINEAL FEET	ACRES	LINEAL FEET	ACRES	LINEAL FEET	ACRES	LINEAL FEET	ACRES	LINEAL FEET	ACRES	LINEAL FEET	
WETLAND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
WETLAND BUFFER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
WETLAND PRESERVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
WETLAND RESTORATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTALS	0.00	0.00	0.00	0.00	0.00	0.00							

SHEET 8 - CONTRACT 3
IMPACT SUMMARY TABLE

WETLAND TYPE	LOSS		BUFFER				PRESERVATION				RESTORATION		NET LOSS
	ACRES	LINEAL FEET	ACRES	LINEAL FEET	ACRES	LINEAL FEET	ACRES	LINEAL FEET	ACRES	LINEAL FEET	ACRES	LINEAL FEET	
WETLAND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
WETLAND BUFFER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
WETLAND PRESERVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
WETLAND RESTORATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTALS	0.00	0.00	0.00	0.00	0.00	0.00							



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND.

DATE: _____
BY: _____

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 9496, EXPIRES DATE 10/26/17.

PREPARED BY: **WRA**
Whitman, Requardt & Associates, LLP
801 South Concourse Street, Baltimore, Maryland 21201

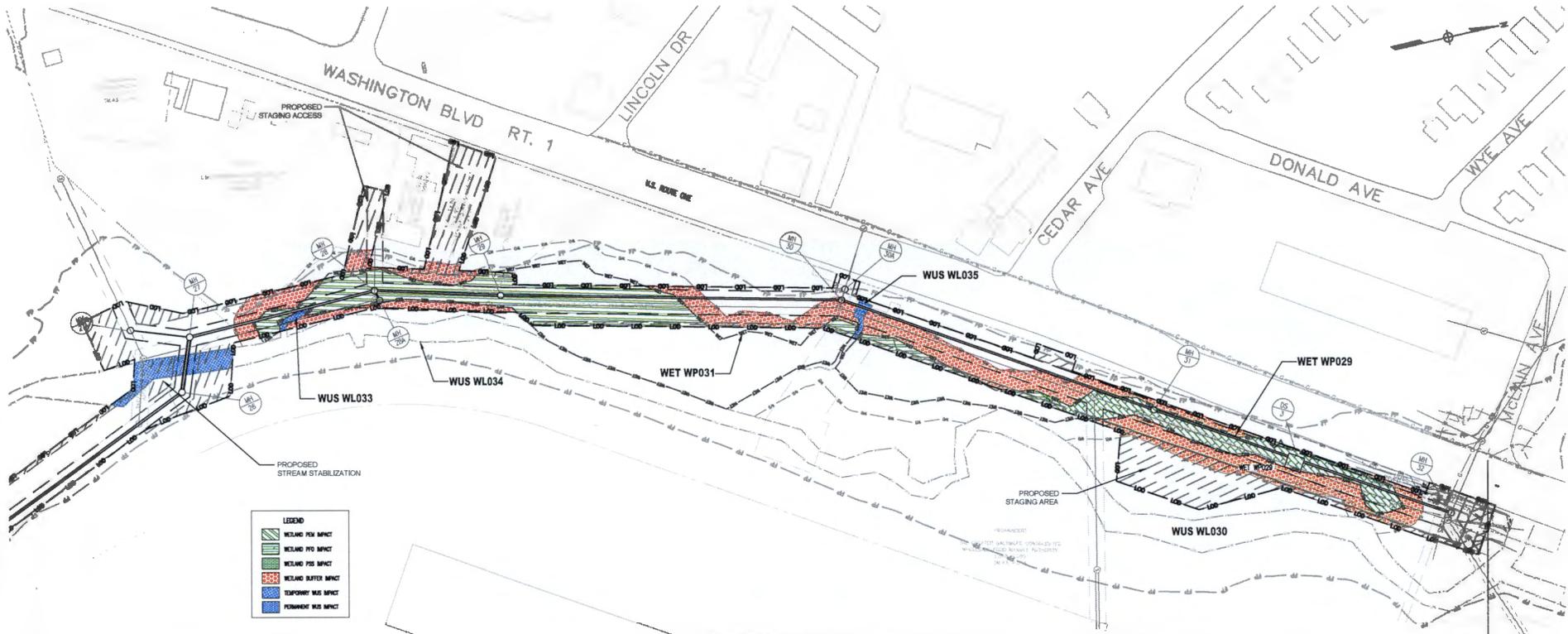
DESIGNER	DATE	BY	NO.
DRAWN	DATE	BY	NO.
CHECKED	DATE	BY	NO.
DATE	BY	NO.	REVISION

IMPACT SHEET 8
(CONTRACTS 2 & 3)

DORSEY RUN INTERCEPTOR IMPROVEMENTS
CAPITAL PROJECT NO. S-5281
CONTRACT NOS. 20-5025, 20-5028, 20-5027

3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

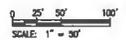
SCALE: AS SHOWN
SHEET 8 OF 8



CONTRACT 3

**SHEET 9 - CONTRACT 3
IMPACT SUMMARY TABLE**

DETAILED	TEMPORARY IMPACTS		PERMANENT IMPACTS						SUBTOTAL IMPACTS IMP*
	AREA (SQ FT)	AREA (SQ YD)	WUS01	WUS02	WUS03	WUS04	WUS05	WUS06	
WETLAND PWS IMPACT	1,200	16,000							
WETLAND PWS IMPACT	200	15,371							
WETLAND BUFFER IMPACT			3,004	3,553	508	508	508	508	28
TEMPORARY WET IMPACT	206	408	48	48	48	48	48	48	28
PERMANENT WET IMPACT	341	408	48	48	48	48	48	48	28
TOTALS	17,000	50,000	3,052	3,601	1,056	1,056	1,056	1,056	113,200



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 244770, EXPIRATION DATE: 10/28/17.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND.

DIRECTOR OF PUBLIC WORKS DATE: _____
 CHIEF, BUREAU OF ENGINEERING DATE: _____
 CHIEF, BUREAU OF UTILITIES DATE: _____
 CHIEF, UTILITY DESIGN DIVISION DATE: _____



DESIGNED BY: J.K.
 DRAWN BY: J.K.
 CHECKED BY: J.K.
 DATE: OCTOBER 2010

BY	NO.	REVISION	DATE

**IMPACT SHEET 9
(CONTRACT 3)**

DORSEY RUN INTERCEPTOR IMPROVEMENTS
 CAPITAL PROJECT NO. S-6281
 CONTRACT NOS. 20-5025, 20-5026, 20-5027
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

IMPACT GRAPHICS - JANUARY 2018

SCALE AS SHOWN
 SHEET 9 OF 9