



U.S. Army Corps
of Engineers
Baltimore District

Public Notice

In Reply to Application Number
CENAB-OPR-M (MD SHA/Project No SM774A21/MD 5 Point
Lookout Road) 2017-62002-M24

PN 18-22

Comment Period: April 26, 2018 – May 17, 2018

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

The Baltimore 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. Todd Nichols
Maryland State Highway Administration
707 N. Calvert Street
Baltimore, Maryland 21202

WATERWAY AND LOCATION: Tidal and nontidal wetlands adjacent to Point Lookout Road (MD 5) from Camp Brown Road to causeway, draining into the Patuxent River/Chesapeake Bay, near Scotland, St. Mary's County, Maryland.

PROPOSED WORK: The Maryland State Highway Administration (SHA) proposes, in accordance with the attached plans, to construct roadway improvements along MD 5 Point Lookout Road from Camp Brown Road to the causeway. Improvements include road widening from the Park Entrance to south of Camp Brown Road to provide wider lanes and shoulders. Typical sections for the widening are 11-foot lane width with 8-foot shoulders (6-ft paved, 2-ft graded). An 8-ft wide Shared Use Path will be created separate from the roadway from the Park Entrance to the Ranger Station. All existing culvert pipes within the project limits will be replaced and brought up to current design standards. Additional proposed work includes installing drainage improvements and stormwater management facilities, roadway resurfacing, wetland creation and enhancement, and use of temporary erosion and sediment controls. The proposed project will permanently impact 2.02 acres of palustrine emergent, forested and scrub-shrub wetlands, and 0.81 acres of tidal wetlands. The proposed project will temporarily impact 0.29 acres of palustrine emergent wetlands.

The applicant has proposed relocating the existing roadside drainage features containing palustrine emergent wetlands as in-kind mitigation for project impacts. SHA proposes to mitigate for permanent impacts to tidal and nontidal wetlands through nontidal wetland creation and enhancement at the Tennyson Site located north of the intersection of Long Neck Road and Tennyson Lane in Scotland, Maryland.

All work is to be completed in accordance with the enclosed plan(s). If you have any questions concerning this matter, please contact Mrs. Mary Frazier at 410-962-5679 or Mary.A.Frazier@usace.army.mil.

The decision whether to issue a permit will be based on an evaluation of the probable impact 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 reasonably 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, economics, 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, 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 application of the Clean Water Act Section 404 (b) (1) Guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under the authority of the 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 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: Mrs. Mary Frazier, CENAB-OP-RMN, 2 Hopkins Plaza, Baltimore, Maryland 21201, 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, Tidal Wetlands Division, Montgomery Park Business Center, 1800 Washington Blvd., Suite 430, Baltimore, Maryland 21230 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.

COASTAL ZONE MANAGEMENT PROGRAM: The applicant has certified in this application that the proposed activity complies with and will be conducted in a manner consistent with the Maryland Coastal Zone Management (CZM) Program. By this public notice, we are requesting the State concurrence or objection to the applicant's consistency statement. Public comments relating to consistency must be received by the Maryland Department of the Environment, Tidal Wetlands Division, Montgomery Park Business Center, 1800 Washington Blvd. Suite 430, Baltimore, Maryland 21230-1708, within the comment period specified above to receive consideration. MDE has a statutory limit of 6 months from the date of this public notice to concur or object to the applicant's consistency determination.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), as amended by the Sustainable Fisheries Act of 1996 (Public Law 04-267), requires all Federal agencies to consult with the National Marine Fisheries Service (NMFS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH).

The project site lies in or adjacent to EFH as described under MSFCMA for Bluefin tuna (Thunnus thynnus) juvenile; smooth dogfish (Mustelus canis) all life stages; clearnose skate (Raja eglanteria) all life stages; little skate (Leucoraja ericacea) all life stages; windowpane flounder (Scopthalmus aquosus) all life stages; winter skate (Leucoraja ocellata) all life stages; red hake (Urophycis chuss) all life stages; monkfish (Lophius americanus) all life stages; black sea bass (Centropristis striata) all life stages; longfin inshore squid (Loligo pealeii) all life stages; blue fish (Pomatomus saltatrix) all life stages; spiny dogfish (Squalus acanthias) all life stages; scup (Stenotomus chrysops) all life stages; Atlantic butterflyfish (Peprilus triacanthus) all life stages; Atlantic cod (Gadus morhua) all life stages; and summer flounder (Paralichthys dentatus) all life stages; all managed species under the MSFCMA.

The project has the potential to adversely affect EFH or the species of concern by loss of spawning, nursery, forage and/or shelter habitat as described under the MSFCMA for the species and life stages identified above. The Baltimore District has made a preliminary determination that site-specific impacts would not be substantial and an abbreviated consultation will be conducted with NMFS. This determination may be modified if additional information indicates otherwise and would change the preliminary determination.

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 requested permit.

The applicant must obtain any State or local government permits which may be required.

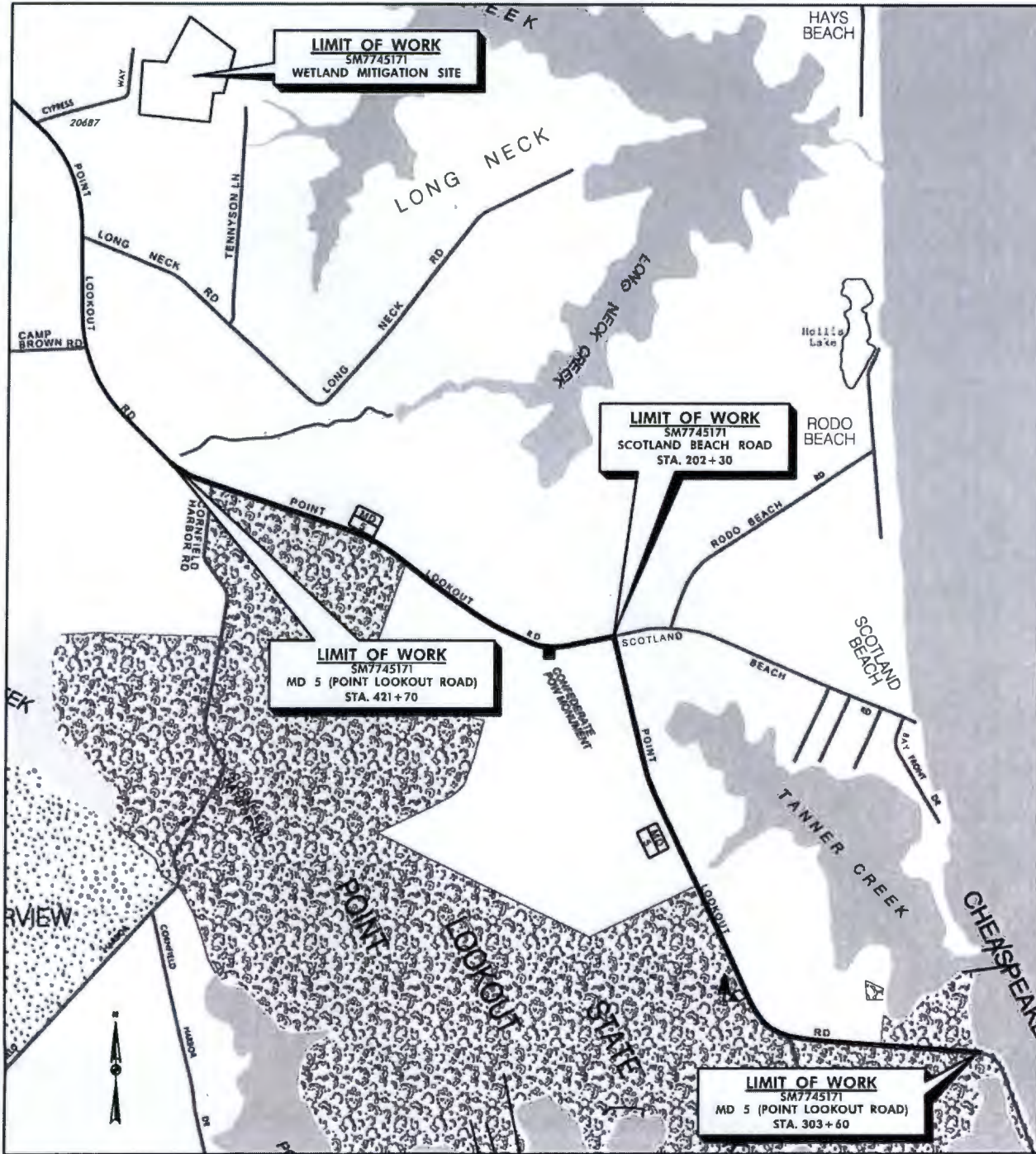
Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, ATTN: Mrs. Mary Frazier, CENAB-OP-RMN, 2 Hopkins Plaza, Baltimore, Maryland 21201, within the comment period as specified as above to receive consideration. Also, it must clearly state 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 the foregoing information concerning the proposed work to any persons known 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



INDEX OF SHEETS

SHEET NUMBER	DRAWING DESCRIPTION
01	TITLE SHEET
02 - 06	KEY MAP PROJECT IMPACTS
07 - 08	SUMMARY OF IMPACTS
09	LEGEND
10-70	MD 5 WETLAND IMPACTS
71-76	TENNYSON MITIGATION SITE



SCALE: 1" = 1500'

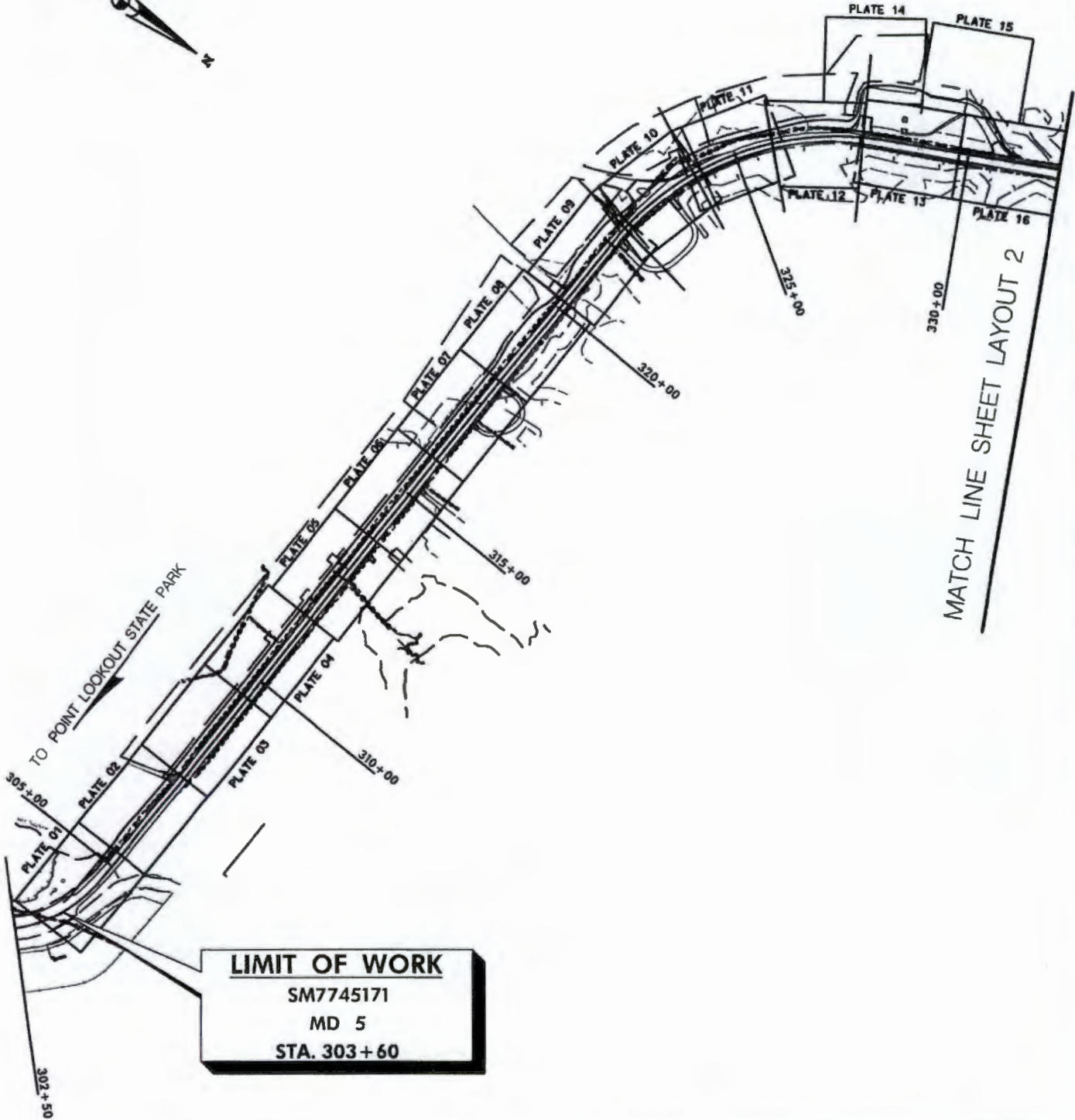


MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
SHEET 01 OF 76 DATE: JANUARY 2018



TO MD 235



LIMIT OF WORK
 SM7745171
 MD 5
 STA. 303+60

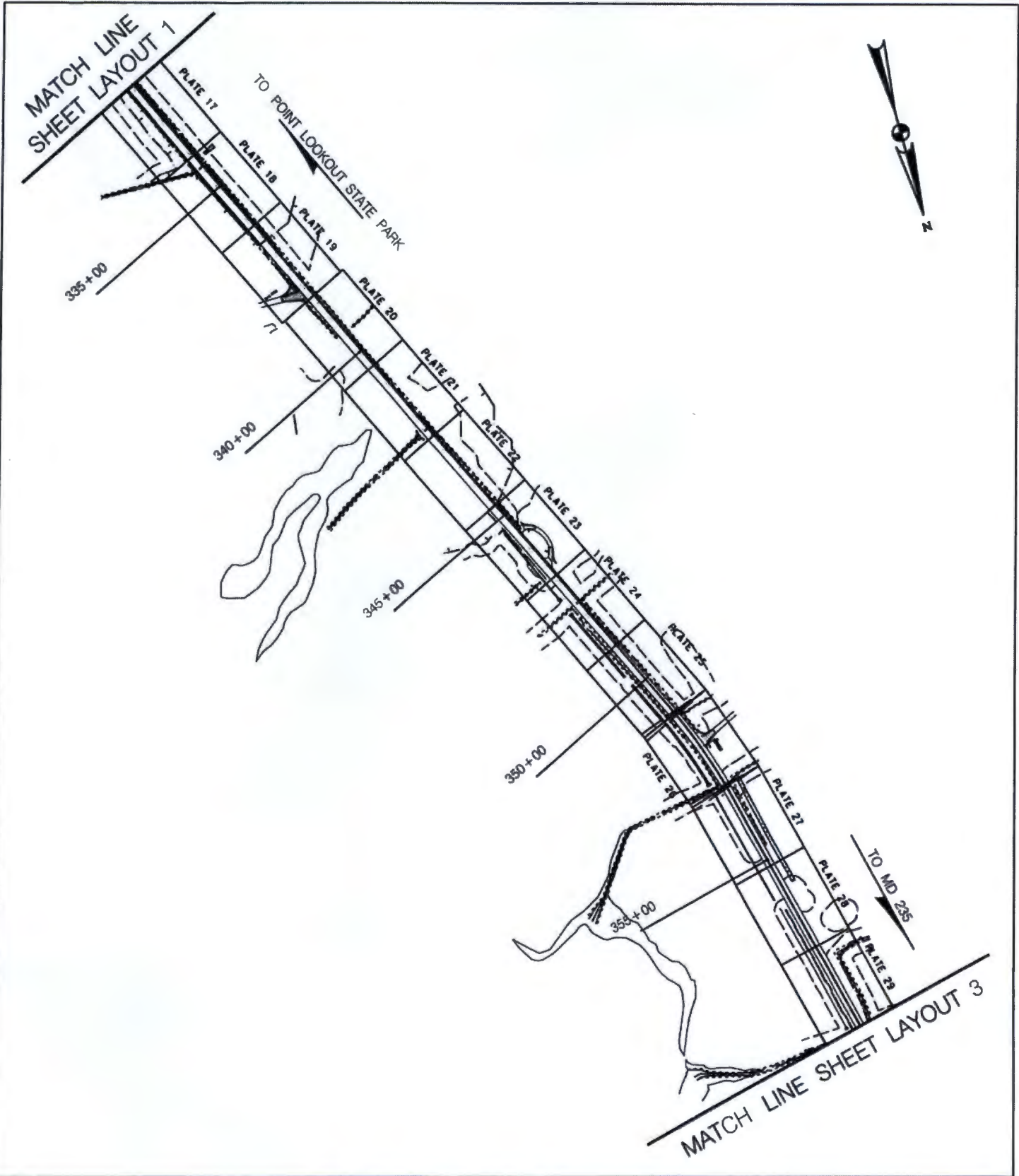


SCALE: 1" = 300'



MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM774A21
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 KEY MAP SHEET NO. 1 OF 5
 SHEET 02 OF 76 DATE: JANUARY 2018
 REVISION:



KEY MAP PROJECT IMPACTS



SCALE: 1" = 300'



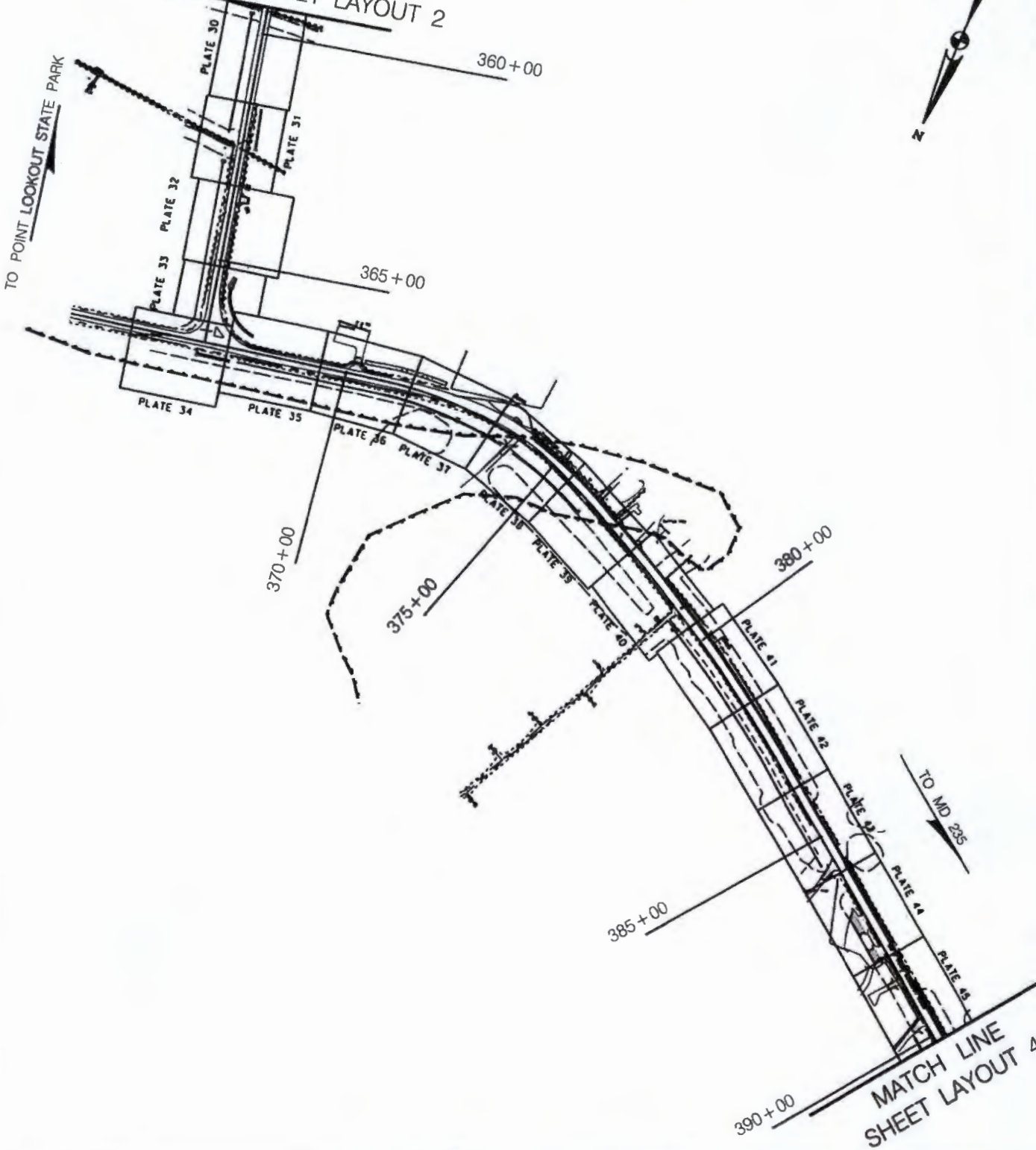
MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM774A21
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 KEY MAP SHEET NO. 2 OF 5
 SHEET 03 OF 76 DATE: JANUARY 2018
 REVISION:

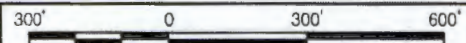
MATCH LINE SHEET LAYOUT 2



TO POINT LOOKOUT STATE PARK



MATCH LINE SHEET LAYOUT 4



SCALE: 1" = 300'



STATE HIGHWAY ADMINISTRATION
 MARYLAND DEPARTMENT OF TRANSPORTATION
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 KEY MAP SHEET NO. 3 OF 5
 SHEET 04 OF 76 DATE: JANUARY 2018
 REVISION:

KEY MAP PROJECT IMPACTS

MATCH LINE SHEET LAYOUT 3

TO POINT LOOKOUT STATE PARK



395+00

400+00

405+00

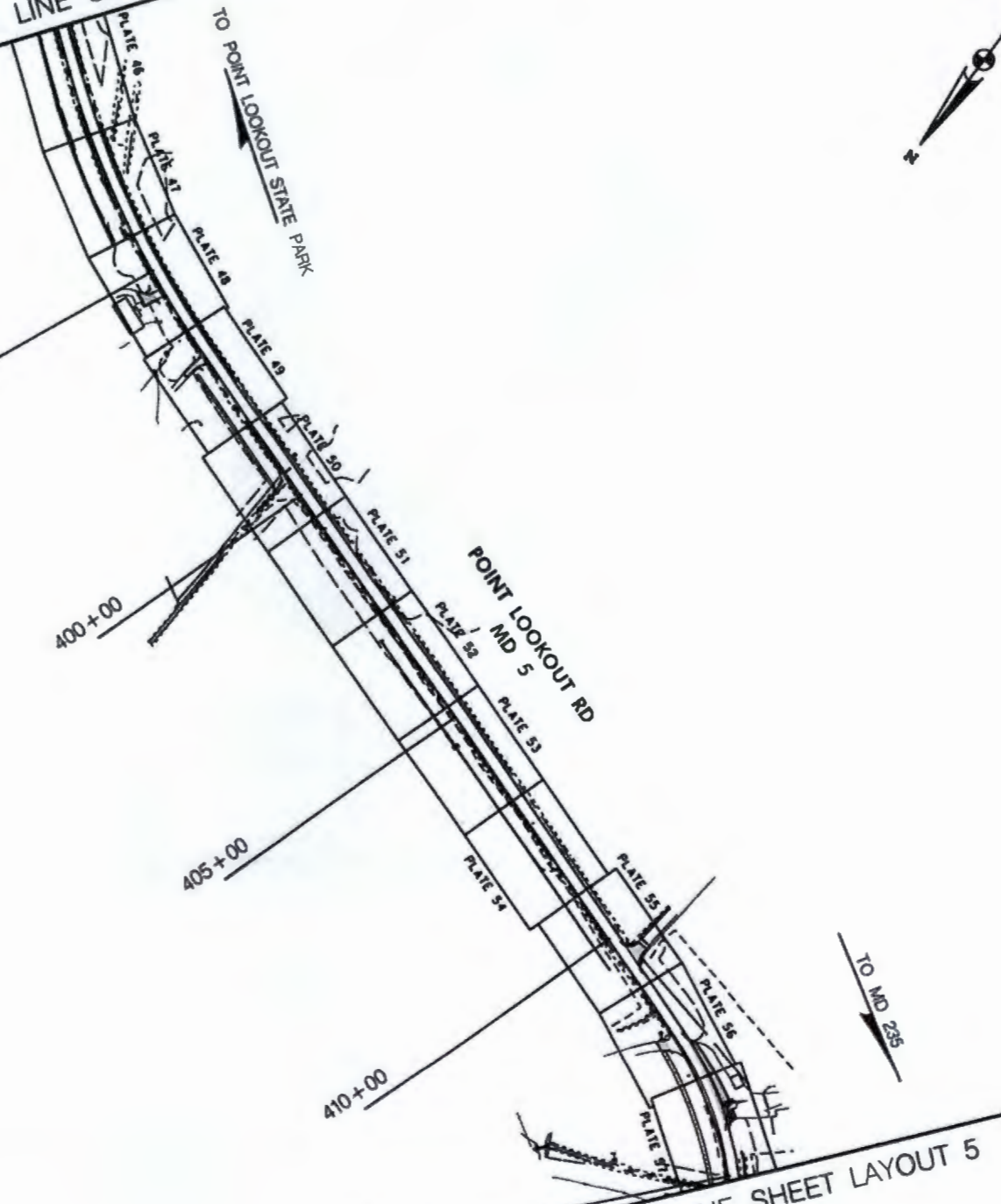
410+00

415+00

POINT LOOKOUT RD
MD 5

TO MD 295

MATCH LINE SHEET LAYOUT 5



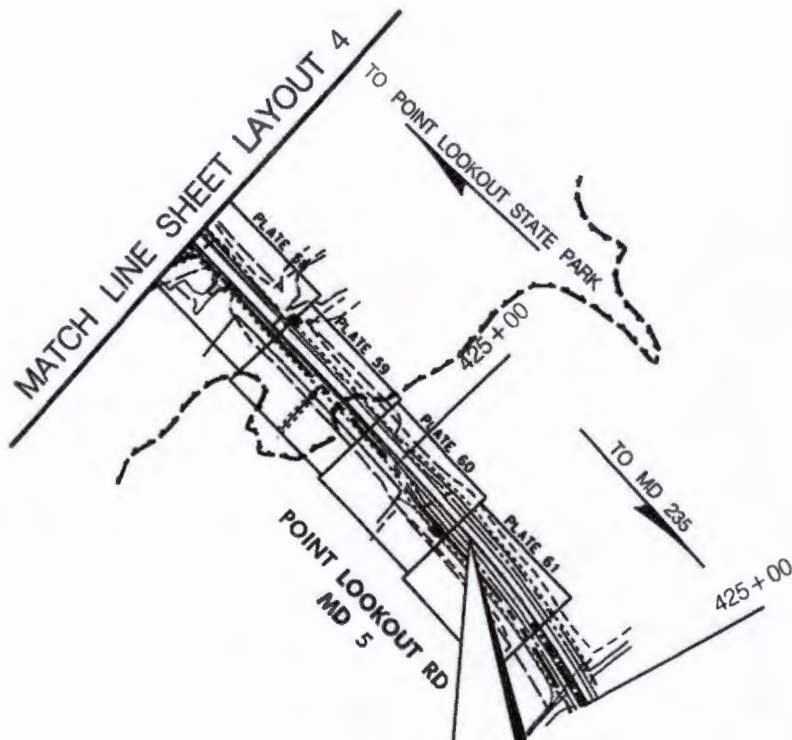
SCALE: 1" = 300'



STATE HIGHWAY ADMINISTRATION
MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM774A21
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
KEY MAP SHEET NO. 4 OF 5
SHEET 05 OF 76 DATE: JANUARY 2018
REVISION:

KEY MAP PROJECT IMPACTS



LIMIT OF WORK
SM7745171
MD 5
STA. 421+70



SCALE: 1" = 300'



MARYLAND DEPARTMENT OF TRANSPORTATION
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 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM774A21
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 KEY MAP SHEET NO. 5 OF 5
 SHEET 06 OF 76 DATE: JANUARY 2018
 REVISION:

SM774 MD 5 POINT LOOKOUT ROAD

Wetland Impacts

April 2018

Wetland Impacts	Non-Tidal		Tidal		In-Kind Replacement
	Area (SF)	Area (AC)	Area (SF)	Area (AC)	Length (LF)
Palustrine Emergent	--	--	--	--	--
Permanent	65333.58	1.50	0.00	0.00	0.00
Temporary	12555.09	0.29	0.00	0.00	4120.70
Palustrine Forested	--	--	--	--	--
Permanent	22636.35	0.52	0.00	0.00	0.00
Temporary	0.00	0.00	0.00	0.00	0.00
Palustrine Scrub-Shrub	--	--	--	--	--
Permanent	149.00	0.00	0.00	0.00	0.00
Temporary	0.00	0.00	0.00	0.00	0.00
Palustrine 25 Ft Buffer	--	--	--	--	--
Permanent	257135.39	5.90	0.00	0.00	--
Temporary	90839.95	2.09	0.00	0.00	--
Palustrine Totals	--	--	--	--	--
Permanent	88118.93	2.02	0.00	0.00	0.00
Temporary	12555.09	0.29	0.00	0.00	4120.70

Estuarine Intertidal Emergent	--	--	--	--	--
Permanent	0.00	0.00	22933.64	0.53	0.00
Temporary	0.00	0.00	0.00	0.00	0.00
Estuarine Intertidal Forested	--	--	--	--	--
Permanent	0.00	0.00	11366.81	0.26	0.00
Temporary	0.00	0.00	0.00	0.00	0.00
Estuarine Intertidal Scrub-Shrub	--	--	--	--	--
Permanent	0.00	0.00	985.02	0.02	0.00
Temporary	0.00	0.00	0.00	0.00	0.00
Estuarine 25 Ft Buffer	--	--	--	--	--
Permanent	0.00	0.00	10202.09	0.23	--
Temporary	0.00	0.00	0.00	0.00	--
Estuarine Totals	--	--	--	--	--
Permanent	0.00	0.00	35285.47	0.81	0.00
Temporary	0.00	0.00	0.00	0.00	0.00

Wetland Totals	--	--	--	--	--
Permanent	88119	2.02	35285	0.81	0
Temporary	12555	0.29	0	0.00	4121
Palustrine Buffer Totals	--	--	--	--	--
Permanent	257135	5.90	0	0.00	--
Temporary	90840	2.09	0	0.00	--
Estuarine Buffer Totals	--	--	--	--	--
Permanent	0	0.00	10202	0.23	--
Temporary	0	0.00	0	0.00	--

SYMBOLOLOGY

CHESAPEAKE BAY CRITICAL AREA	— CBCA —
CRITICAL AREA BUFFER	— CAB —
TREELINE	
LIMITS OF DISTURBANCE	— LDD —
LIMITS OF CUT	— C —
LIMITS OF FILL	— F —
WETLAND BUFFER	— B —
WETLAND BOUNDARY	
FLOODPLAIN 100-YR 1972 LINE	
MEAN HIGH WATER	

IMPACTS

	PERMANENT PFO WETLAND IMPACTS
	TEMPORARY PFO WETLAND IMPACTS
	PERMANENT PSS WETLAND IMPACTS
	PERMANENT PEM WETLAND IMPACTS
	TEMPORARY PEM WETLAND IMPACTS
	PERMANENT PALUSTRINE BUFFER IMPACTS
	TEMPORARY PALUSTRINE BUFFER IMPACTS

	PERMANENT E2SS WETLAND IMPACTS
	PERMANENT TIDAL E2SS WETLAND IMPACT
	PERMANENT E2EM WETLAND IMPACTS
	PERMANENT TIDAL E2EM WETLAND IMPACT
	PERMANENT E2FO WETLAND IMPACTS
	PERMANENT ESTUARINE BUFFER IMPACTS

PAVEMENT

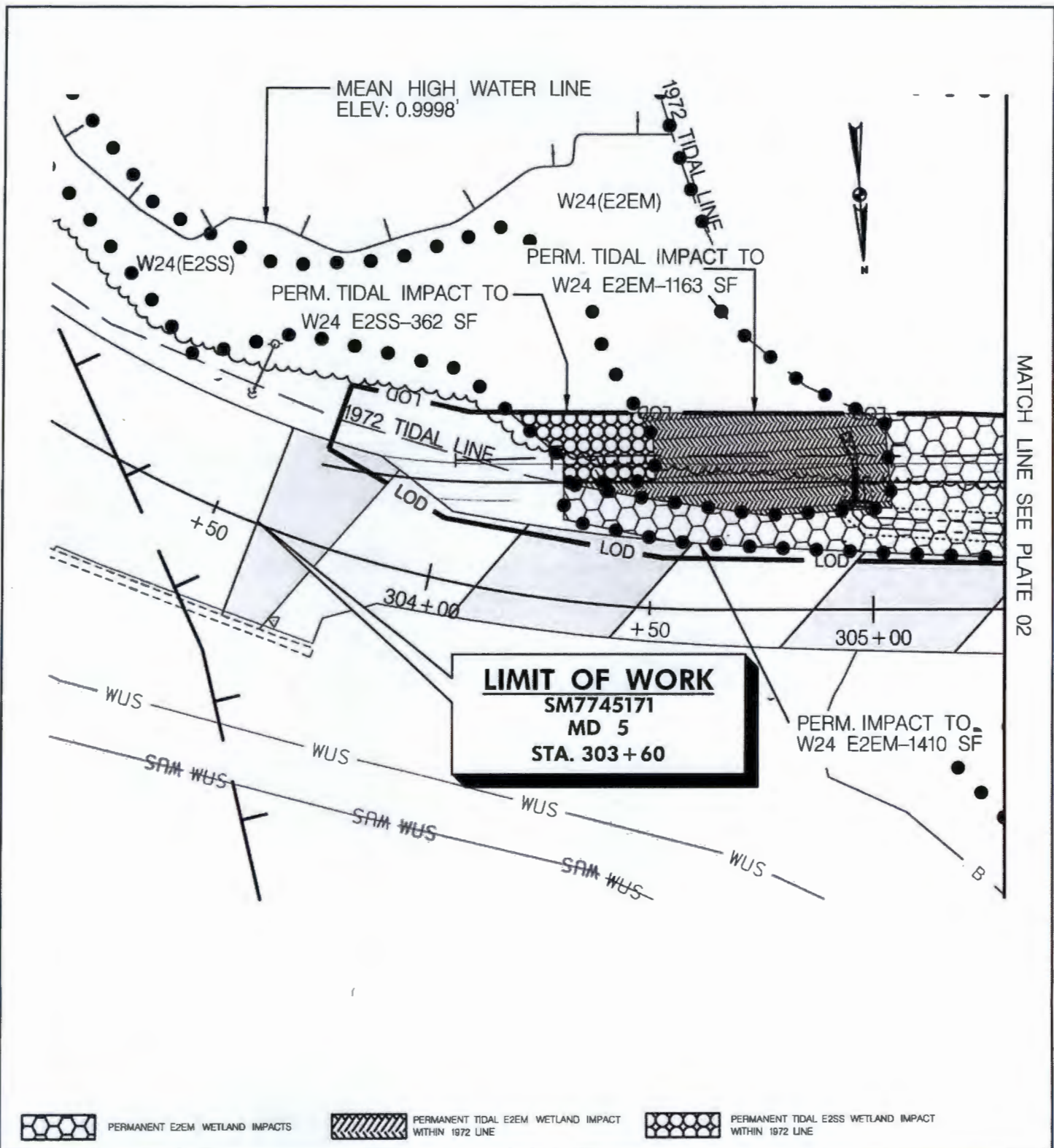
	FULL DEPTH PAVEMENT RECONSTRUCTION/WIDENING
	ROADWAY RESURFACING
	EXISTING SIDEWALK/PAVEMENT REMOVAL
	GRAVEL DRIVEWAY

LEGEND



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM774A21
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
SYMBOLOLOGY & IMPACTS: SHEET 1 OF 1
SHEET 09 OF 76 DATE: JANUARY 2018
REVISION:



MATCH LINE SEE PLATE 02

LIMIT OF WORK
SM7745171
MD 5
STA. 303+60



PERMANENT E2EM WETLAND IMPACTS



PERMANENT TIDAL E2EM WETLAND IMPACT WITHIN 1972 LINE



PERMANENT TIDAL E2SS WETLAND IMPACT WITHIN 1972 LINE

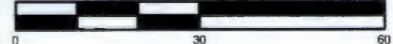
IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	0 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	362 S.F.	0 S.F.
E2EM WETLAND	1410 S.F.	0 S.F.
E2EM TIDAL WETLAND	1163 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALLUSTRINE BUFFER	0 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	4312 S.F.
	4312 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'

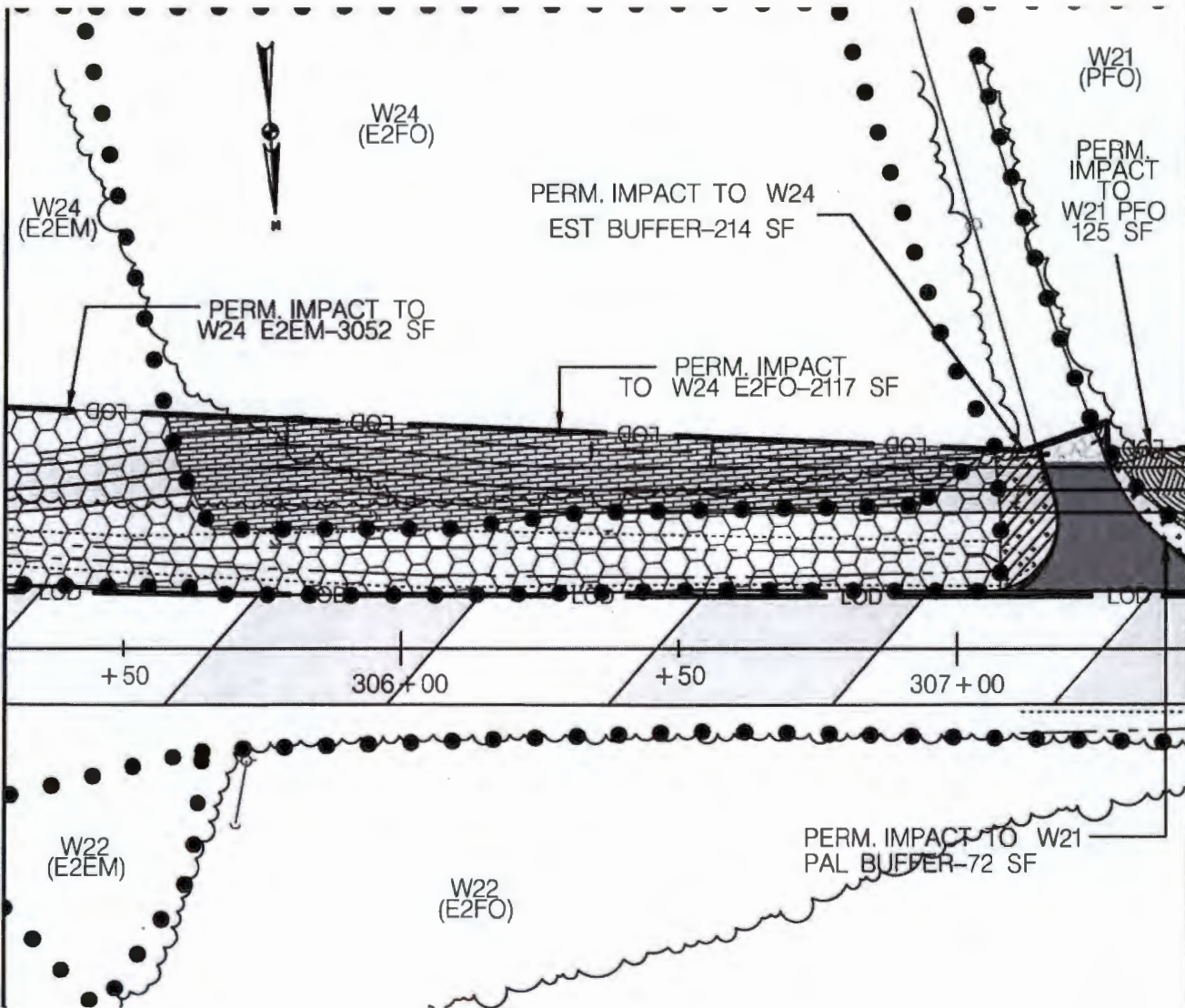


MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 WETLAND PLATE NO. 01
 SHEET 10 OF 76 DATE: JANUARY 2018
 REVISION:

MATCH LINE SEE PLATE 01

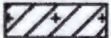
MATCH LINE SEE PLATE 03



PERMANENT PALUSTRINE BUFFER IMPACTS



PERMANENT E2EM WETLAND IMPACTS



PERMANENT ESTUARINE BUFFER IMPACTS



PERMANENT E2FO WETLAND IMPACTS



PERMANENT PFO WETLAND IMPACTS

IMPACTS TO THIS PLATE

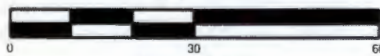
	PERMANENT	TEMPORARY
PFO WETLAND	125 S.F.	0 S.F.
PEM WETLAND	0 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	3052 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	2117 S.F.	0 S.F.
PALUSTRINE BUFFER	72 S.F.	0 S.F.
ESTUARINE BUFFER	214 S.F.	0 S.F.

100-YEAR FLOODPLAIN
CRITICAL AREA

	6205 S.F.
	6205 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'



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CONTRACT NO.: SM7745171
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APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 02
SHEET 11 OF 76 DATE: JANUARY 2018
REVISION:

W21(PFO)

PERM. IMPACT TO
W21 PFO-3361 SF

W21(PFO)

PERM. IMPACT TO W22 E2EM-516 SF

W22(E2EM)

+ 50

308 + 00

+ 50

309 + 00

+ 50

PERM. IMPACT TO W21
PAL BUFFER-1511 SF

W22(E2FO)

MATCH LINE SEE PLATE 02

MATCH LINE SEE PLATE 04



PERMANENT PFO WETLAND IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS



PERMANENT E2EM WETLAND IMPACTS

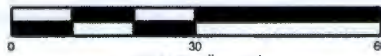
IMPACTS TO THIS DATE

	PERMANENT	TEMPORARY
PFO WETLAND	3361 S.F.	0 S.F.
PEM WETLAND	0 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	516 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	1511 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	5525 S.F.
	5525 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

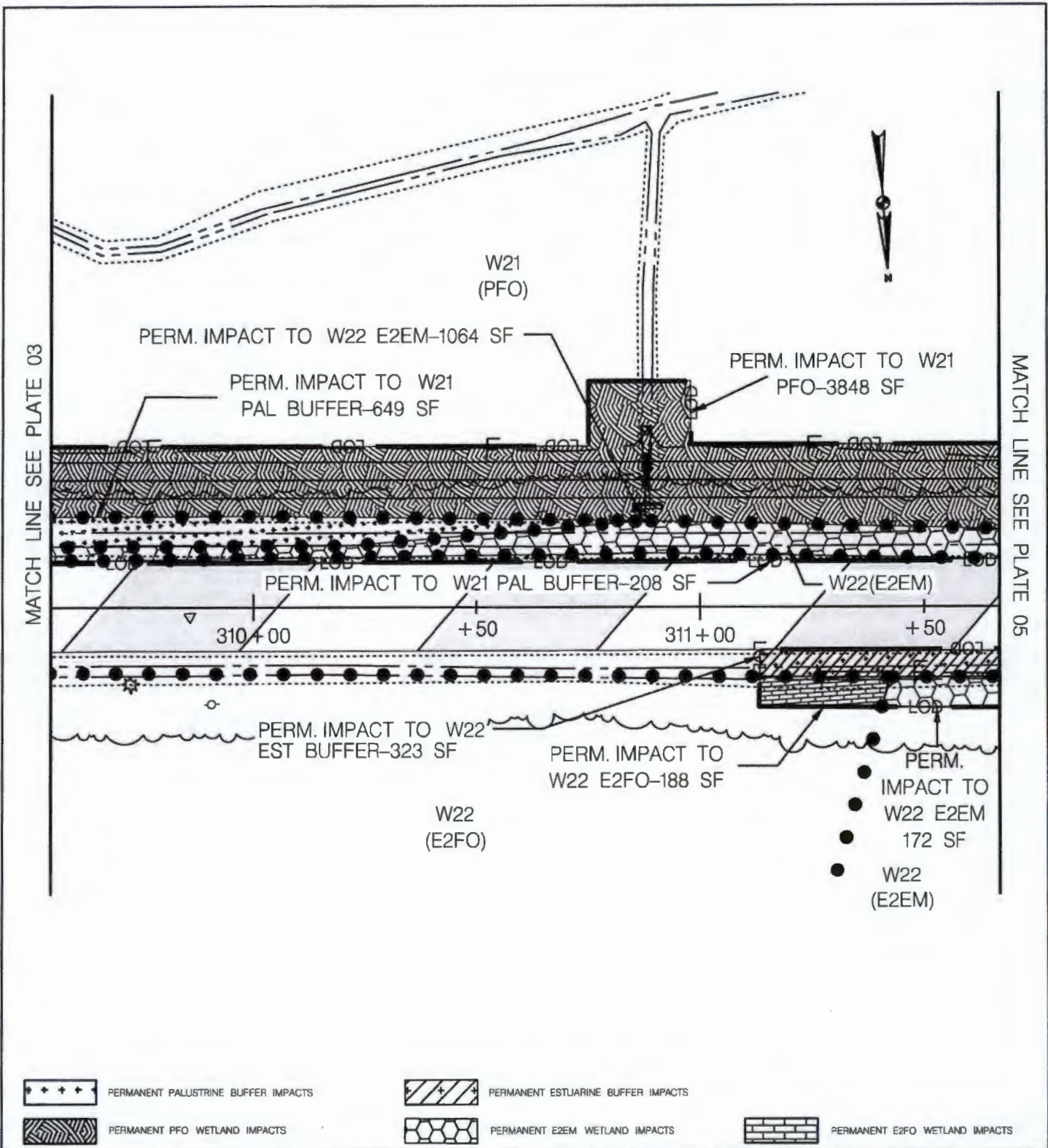


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
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STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 03
SHEET 12 OF 76 DATE: JANUARY 2018
REVISION:

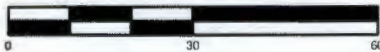


IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	3848 S.F.	0 S.F.
PEM WETLAND	0 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	1236 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	188 S.F.	0 S.F.
PALUSTRINE BUFFER	649 S.F.	0 S.F.
ESTUARINE BUFFER	323 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	8492 S.F.	8492 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

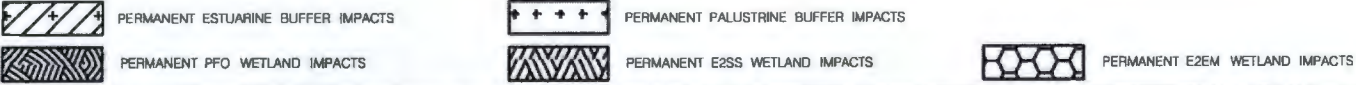
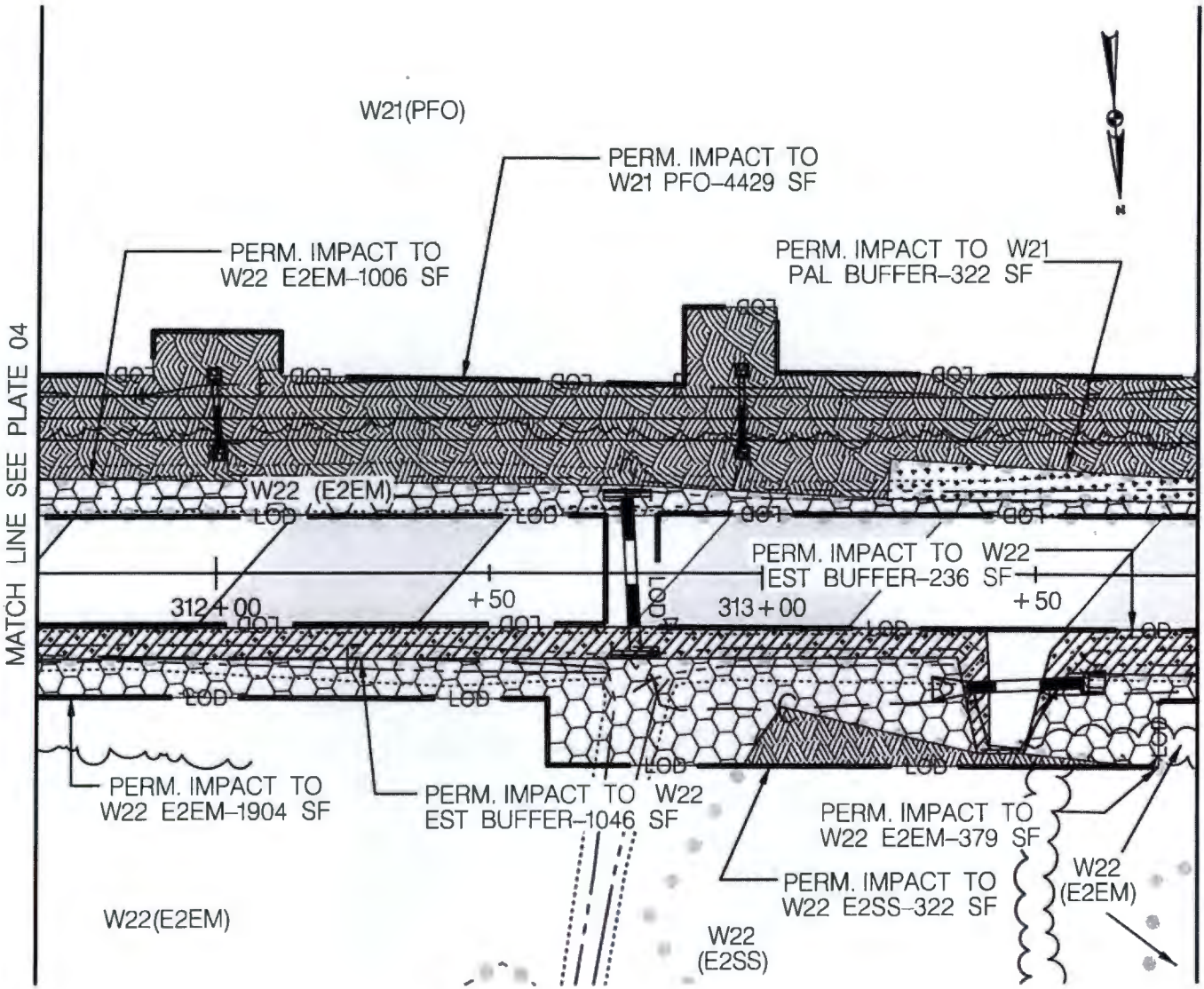


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CONTRACT NO.: SM7745171
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WETLAND PLATE NO. 04
SHEET 13 OF 76 DATE: JANUARY 2018
REVISION:



IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	4429 S.F.	0 S.F.
PEM WETLAND	0 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	322 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	3289 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	322 S.F.	0 S.F.
ESTUARINE BUFFER	1282 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	10126 S.F.
	10126 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

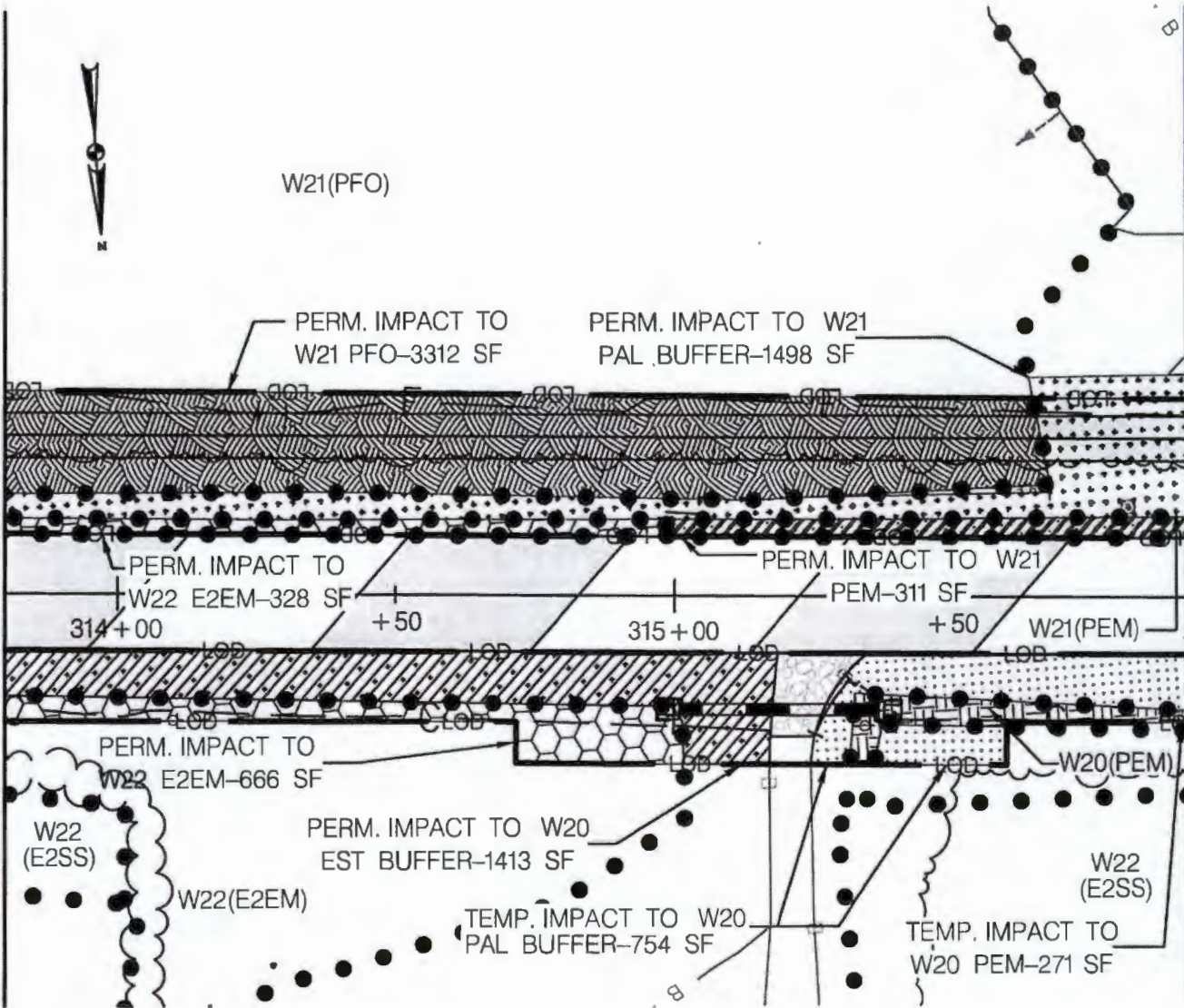
CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 05
SHEET 14 OF 76 DATE: JANUARY 2018
REVISION:



W21(PFO)

MATCH LINE SEE PLATE 5

MATCH LINE SEE PLATE 7



PERMANENT ESTUARINE BUFFER IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS



TEMPORARY PALUSTRINE BUFFER IMPACTS



TEMPORARY PEM WETLAND IMPACT



PERMANENT PFO WETLAND IMPACTS



PERMANENT E2EM WETLAND IMPACTS

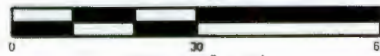
IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	3312 S.F.	0 S.F.
PEM WETLAND	311 S.F.	271 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	994 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	1498 S.F.	754 S.F.
ESTUARINE BUFFER	1413 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	8652	S.F.
	8652	S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

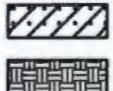
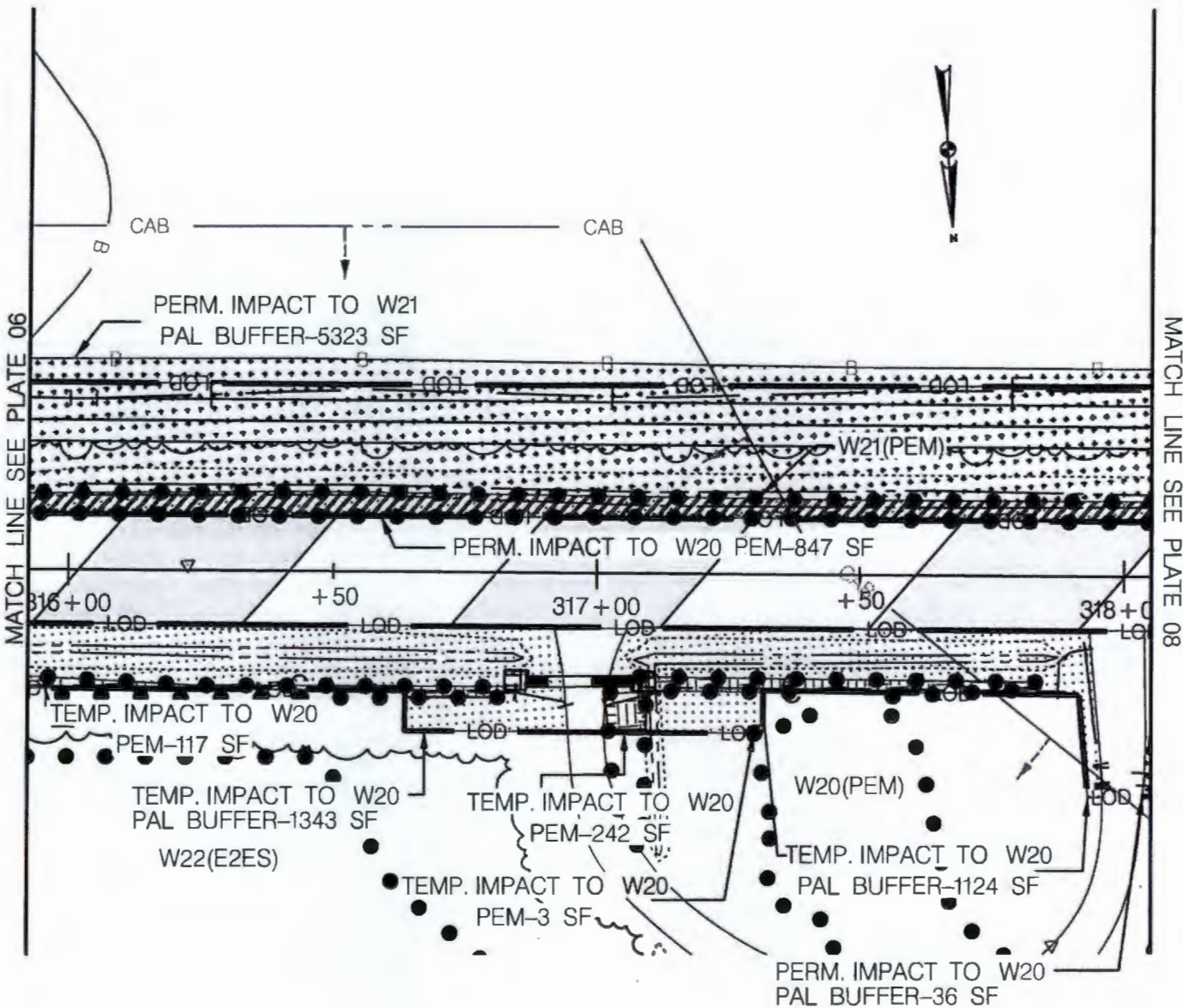


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 06
SHEET 15 OF 76 DATE: JANUARY 2018
REVISION:



PERMANENT PEM WETLAND IMPACTS

TEMPORARY PEM WETLAND IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS



TEMPORARY PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

PFO WETLAND
PEM WETLAND
PSS WETLAND
E2SS WETLAND
E2SS TIDAL WETLAND
E2EM WETLAND
E2EM TIDAL WETLAND
E2FO WETLAND
PALUSTRINE BUFFER
ESTUARINE BUFFER

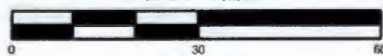
	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	847 S.F.	362 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	5399 S.F.	2467 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN
CRITICAL AREA

	8648 S.F.
	6083 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'

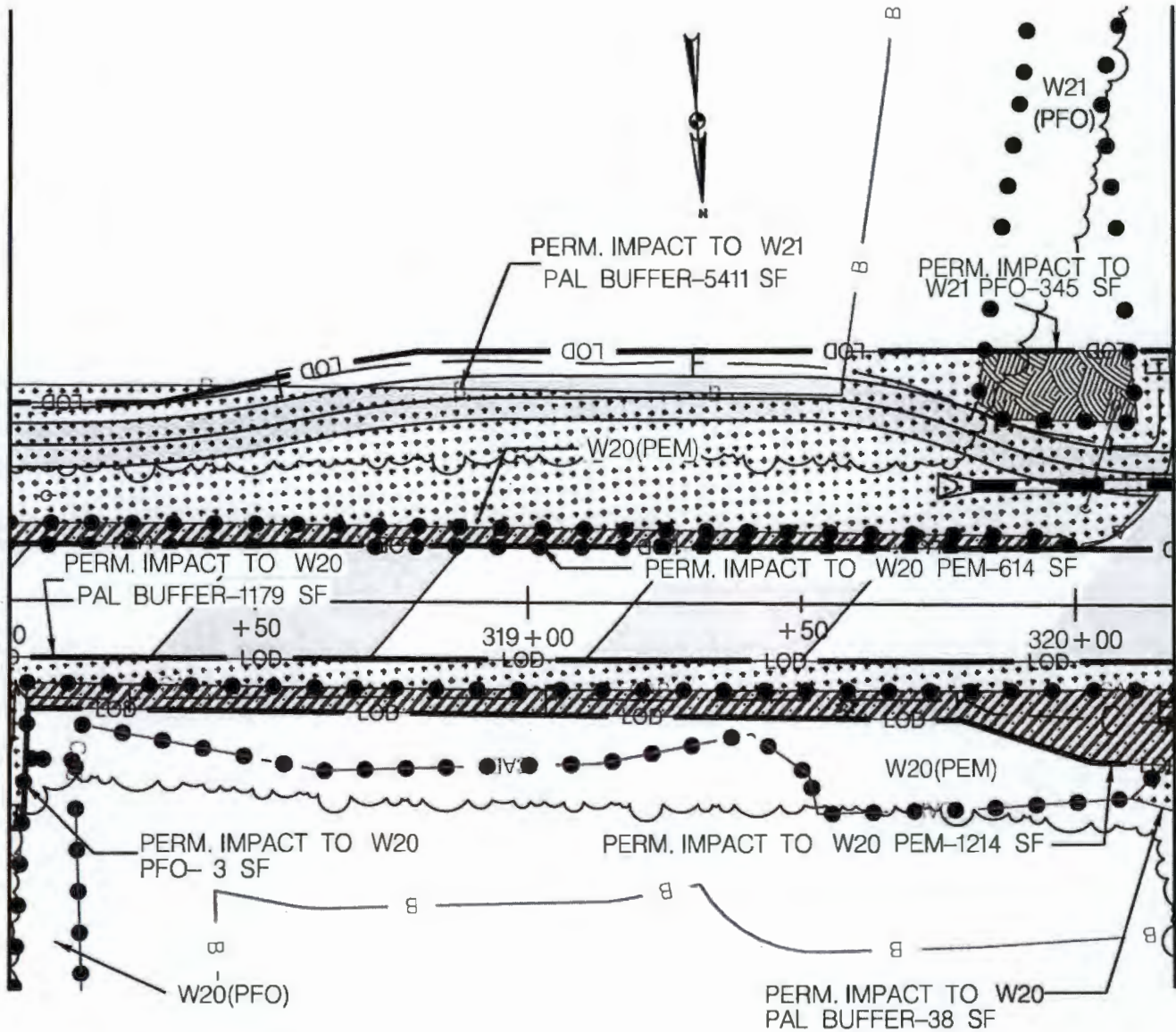


MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 07
SHEET 16 OF 76 DATE: JANUARY 2018
REVISION:

MATCH LINE SEE PLATE 07

MATCH LINE SEE PLATE 10



PERMANENT PFO WETLAND IMPACTS



PERMANENT PEM WETLAND IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	348 S.F.	0 S.F.
PEM WETLAND	1828 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	6628 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN	9470 S.F.
CRITICAL AREA	1214 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

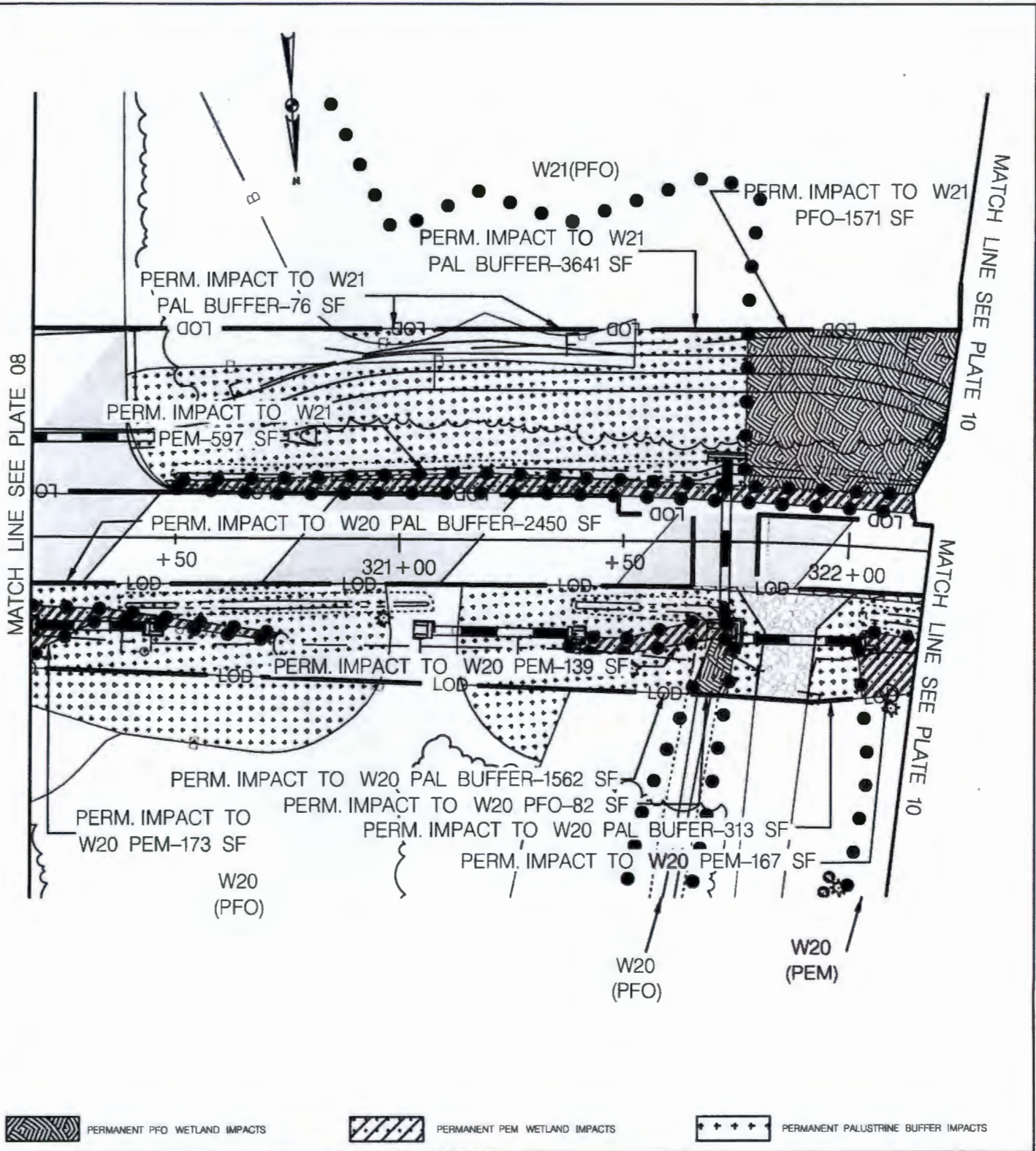


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 08
SHEET 17 OF 76 DATE: JANUARY 2018
REVISION:

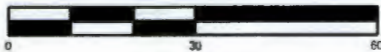


IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	1653 S.F.	0 S.F.
PEM WETLAND	1076 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	8042 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	12307 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

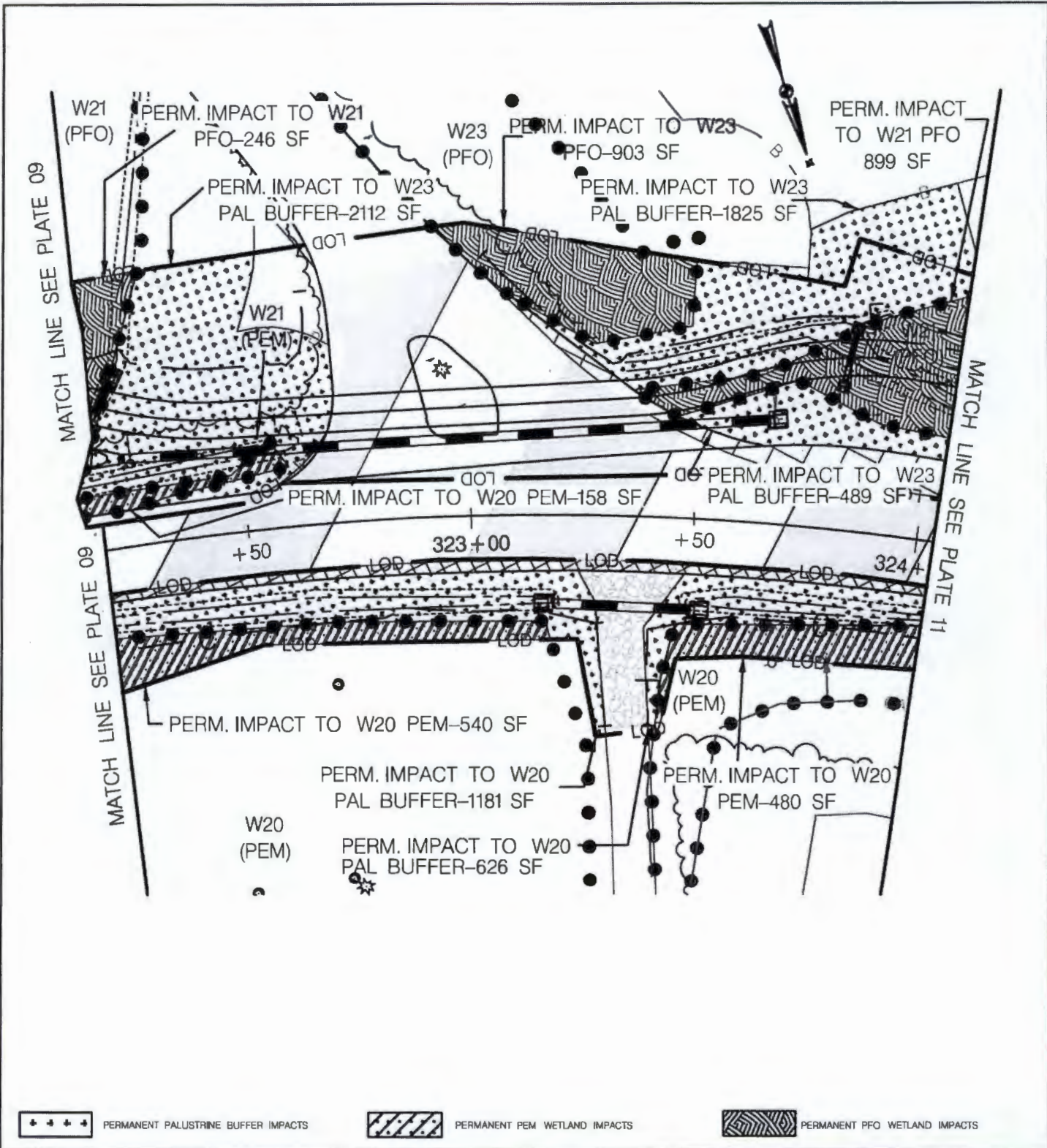


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 WETLAND PLATE NO. 09
 SHEET 18 OF 76 DATE: JANUARY 2018
 REVISION:



PERMANENT PALUSTRINE BUFFER IMPACTS



PERMANENT PEM WETLAND IMPACTS



PERMANENT PFO WETLAND IMPACTS

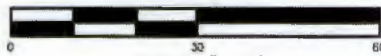
IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	2048 S.F.	0 S.F.
PEM WETLAND	1178 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	6233 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	13854 S.F.
	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

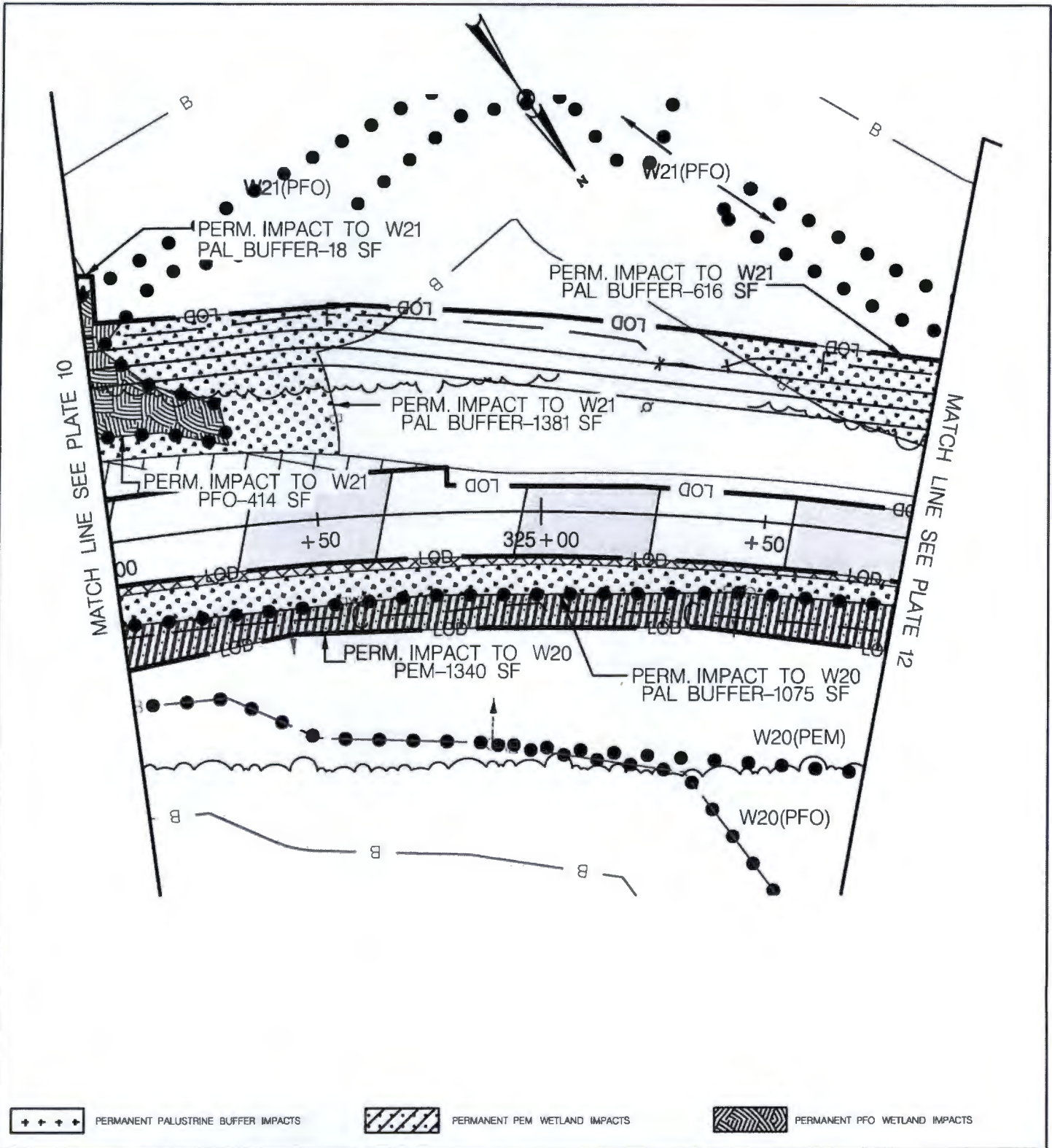


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 10
SHEET 19 OF 76 DATE: JANUARY 2018
REVISION:



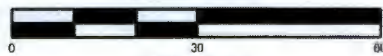
IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	414 S.F.	0 S.F.
PEM WETLAND	1340 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	3090 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	9577 S.F.
	1340 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

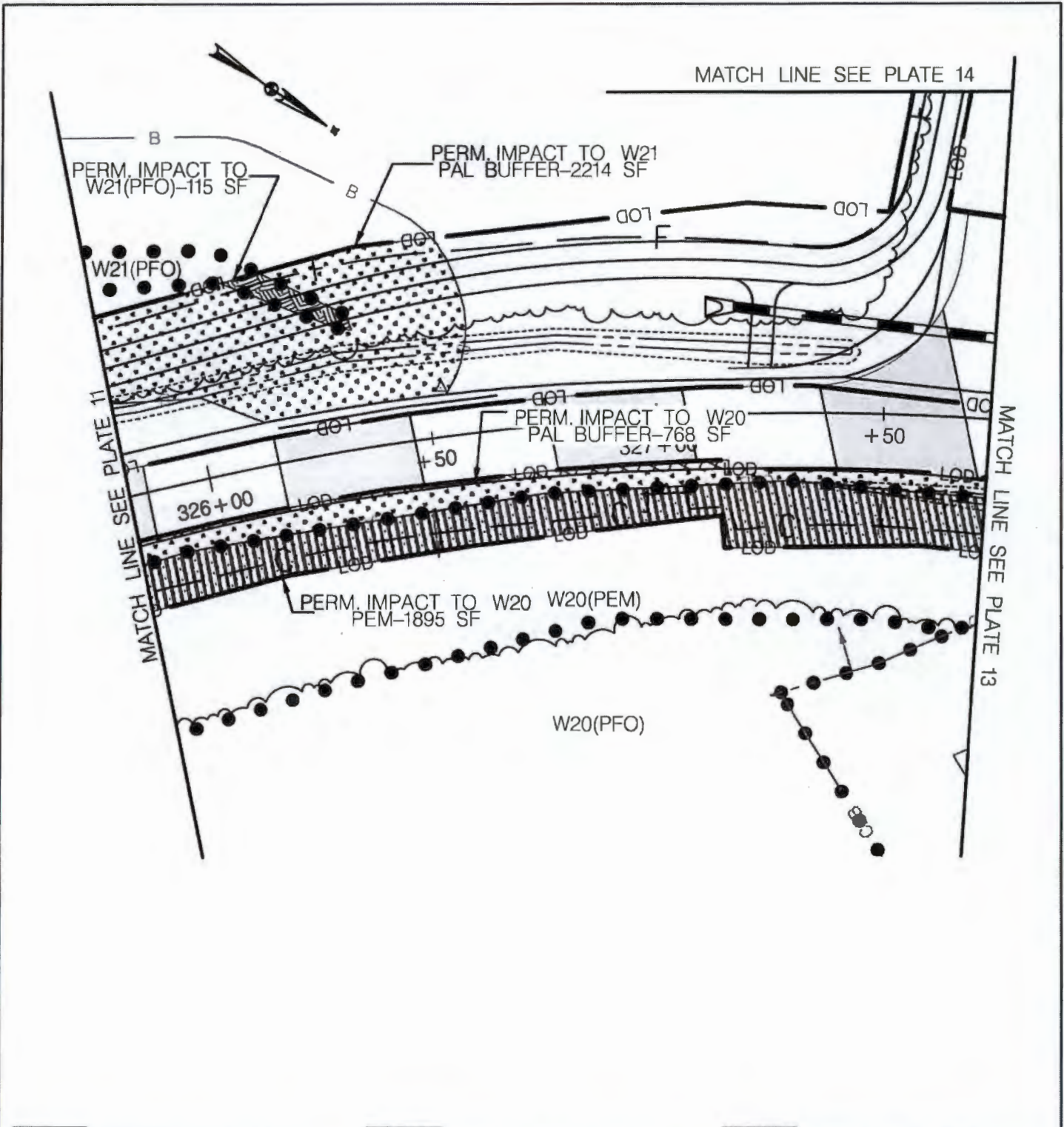


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 11
SHEET 20 OF 76 DATE: JANUARY 2018
REVISION:

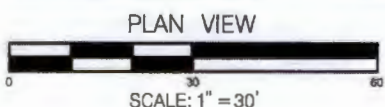


PERMANENT PALLUSTRINE BUFFER IMPACTS
 PERMANENT PEM WETLAND IMPACTS
 PERMANENT PFO WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	115 S.F.	0 S.F.
PEM WETLAND	1895 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALLUSTRINE BUFFER	2082 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	10695 S.F.
	1895 S.F.



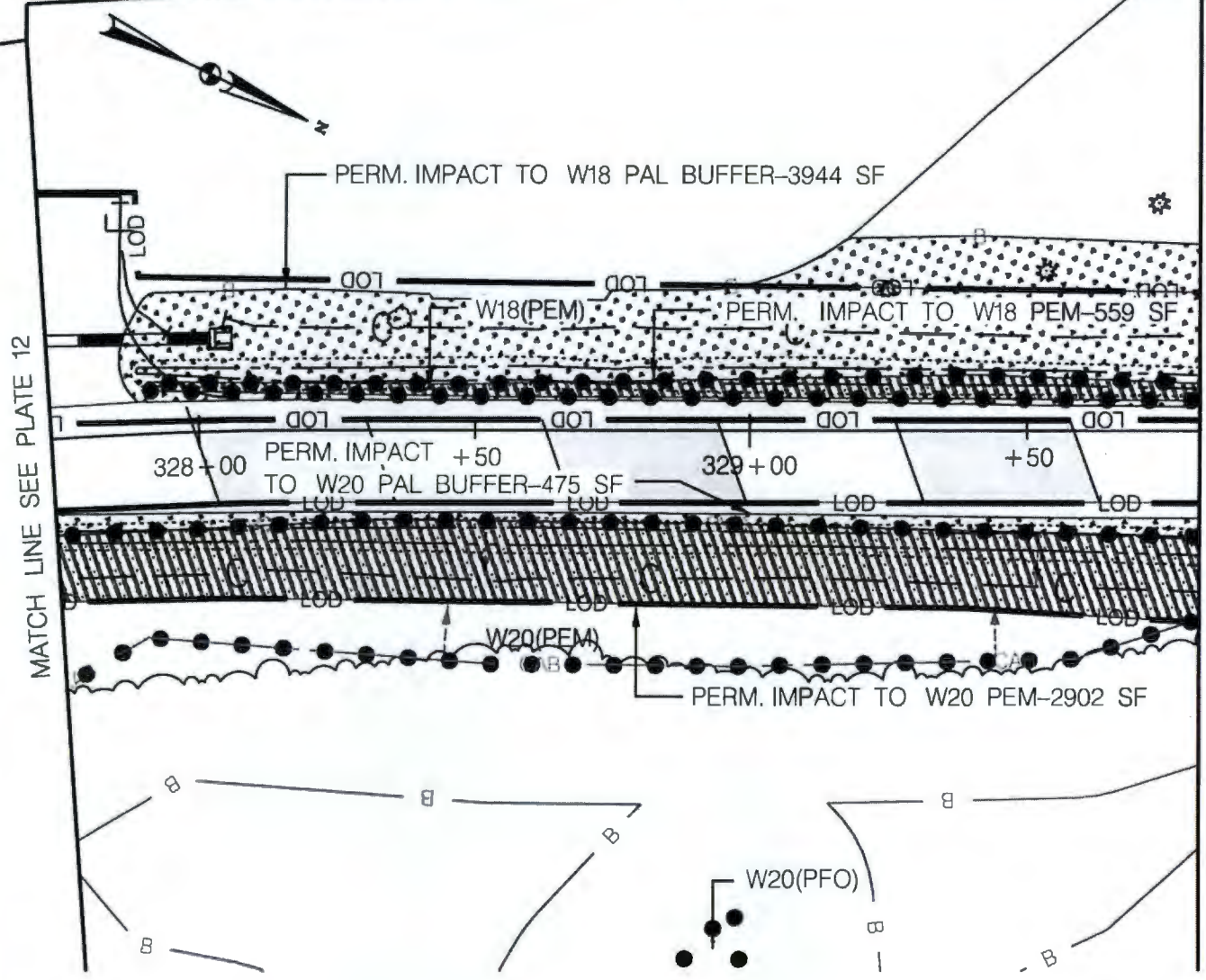
MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 WETLAND PLATE NO. 12
 SHEET 21 OF 76 DATE: JANUARY 2018
 REVISION:

PURPOSE: MD 5 WETLAND IMPACTS

MATCH LINE SEE PLATE 14

MATCH LINE SEE PLATE 15



PERMANENT PALUSTRINE BUFFER IMPACTS



PERMANENT PEM WETLAND IMPACTS

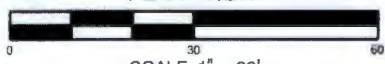
IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	3461 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	4419 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	9147 S.F.
	2902 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

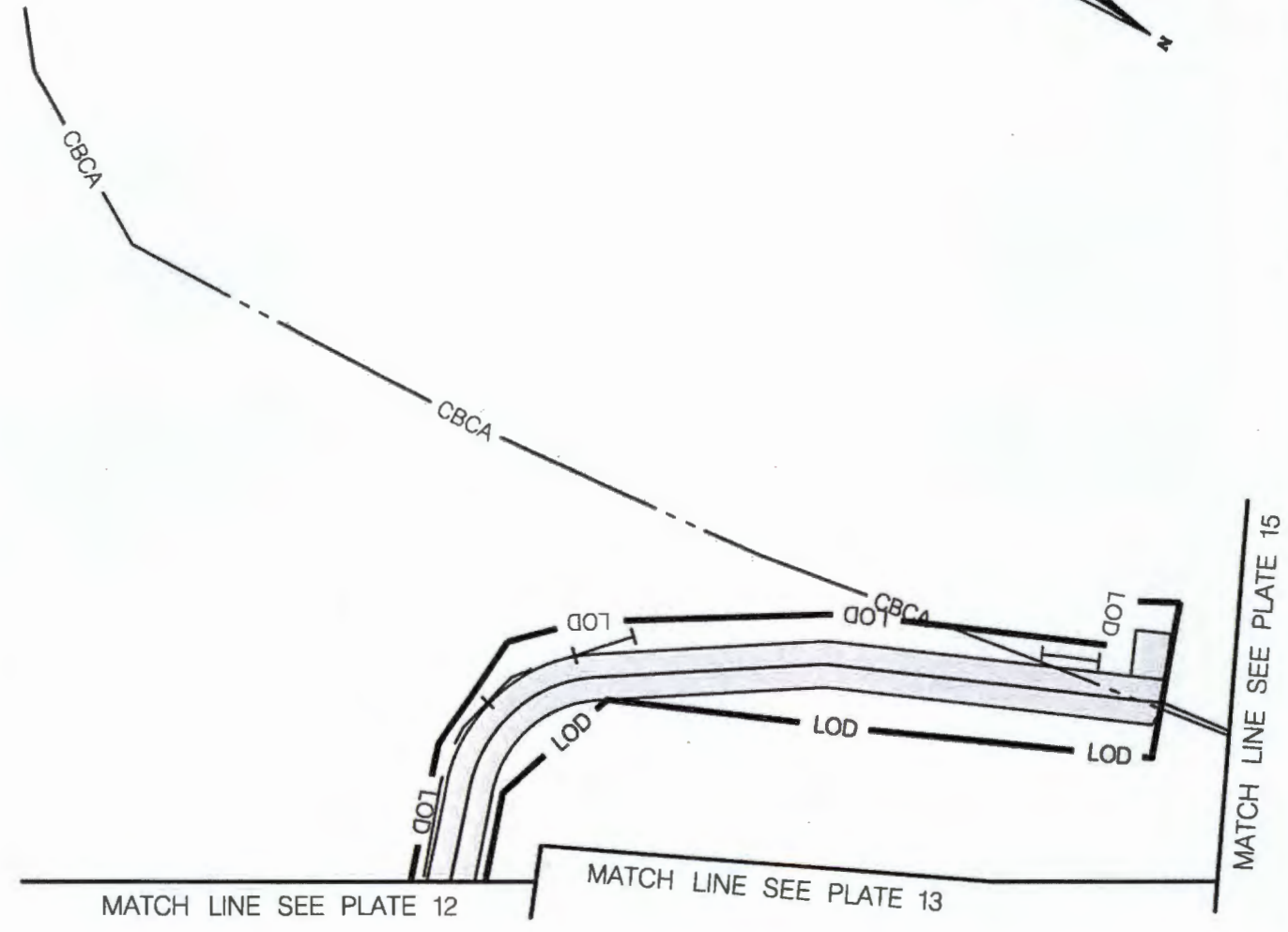


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 13
SHEET 22 OF 76 DATE: JANUARY 2018
REVISION:



MATCH LINE SEE PLATE 12

MATCH LINE SEE PLATE 13

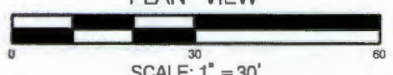
MATCH LINE SEE PLATE 15

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	0 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALLUSTRINE BUFFER	0 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	2567 S.F.	0 S.F.

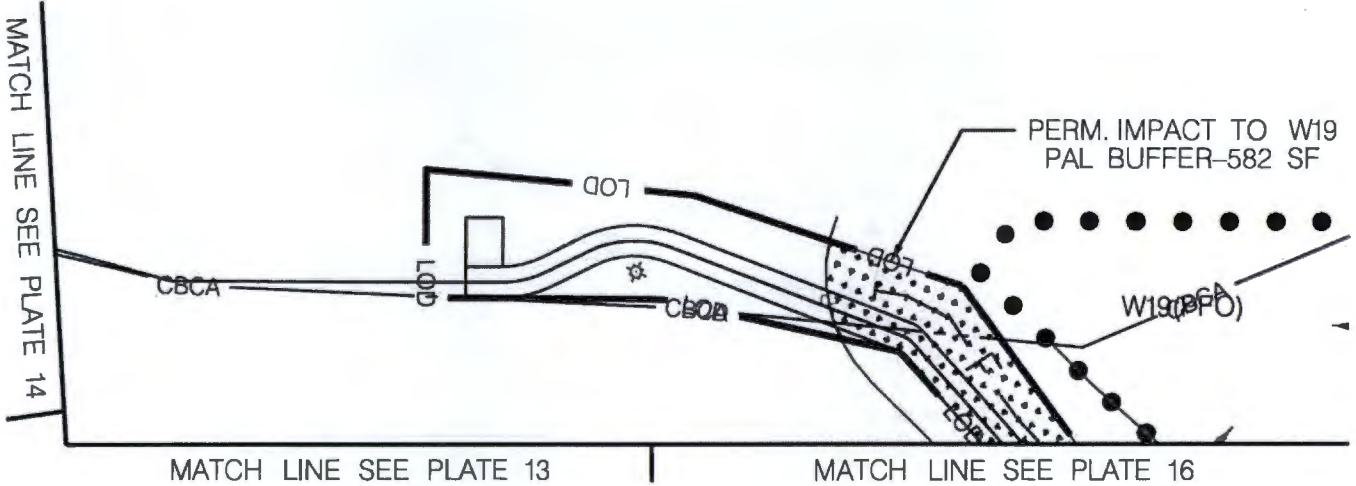
PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 14
SHEET 23 OF 76 DATE: JANUARY 2018
REVISION:



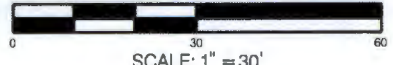
 PERMANENT PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	0 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALLUSTRINE BUFFER	582 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	1726 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



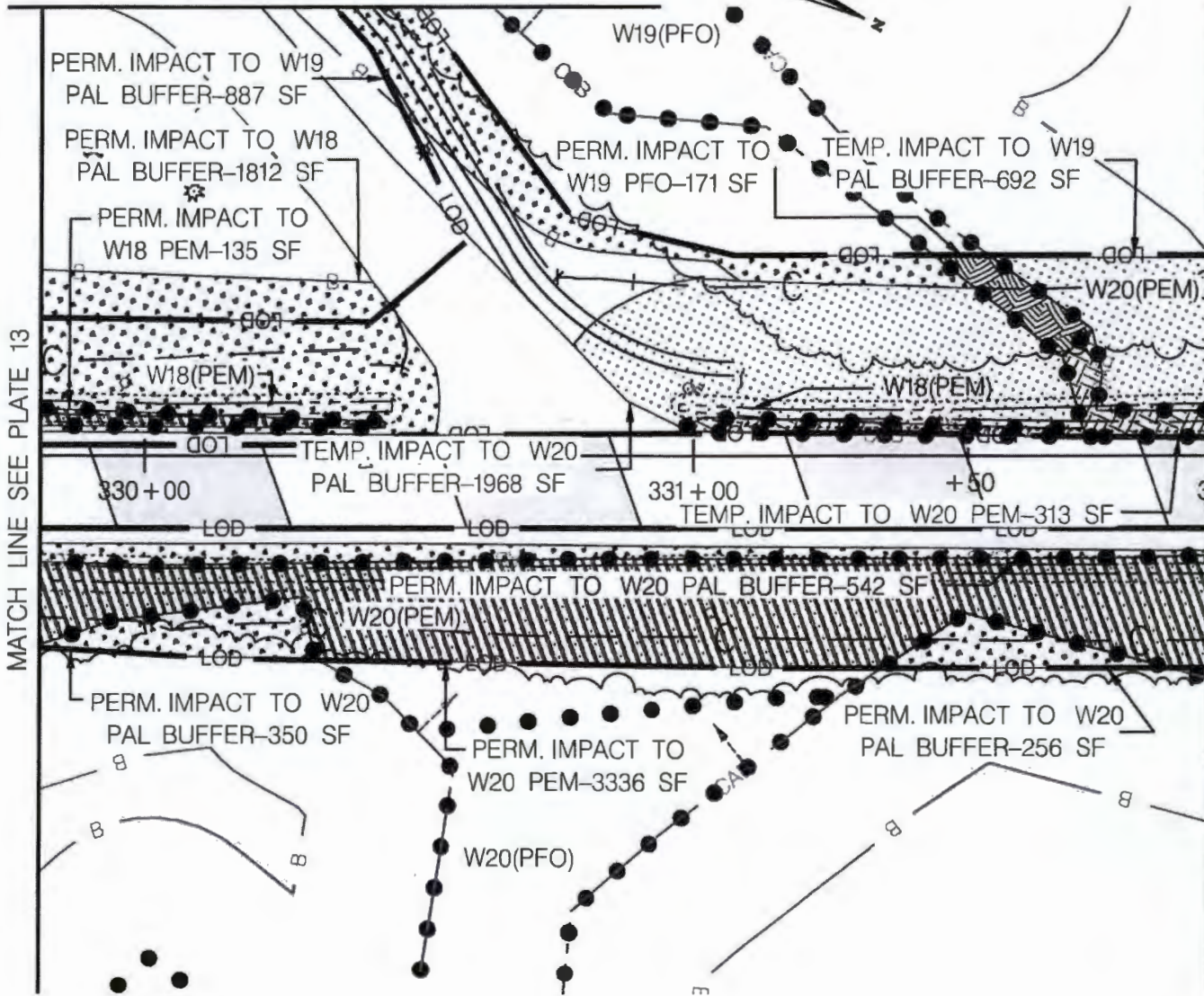
SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 15
SHEET 24 OF 76 DATE: JANUARY 2018
REVISION:

MATCH LINE SEE PLATE 15



TEMPORARY PEM WETLAND IMPACTS



TEMPORARY PALUSTRINE BUFFER IMPACTS



PERMANENT PEM WETLAND IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS



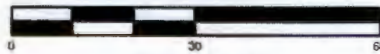
PERMANENT PFO WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	171 S.F.	0 S.F.
PEM WETLAND	3471 S.F.	313 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	3847 S.F.	2660 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	12278 S.F.	3513 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

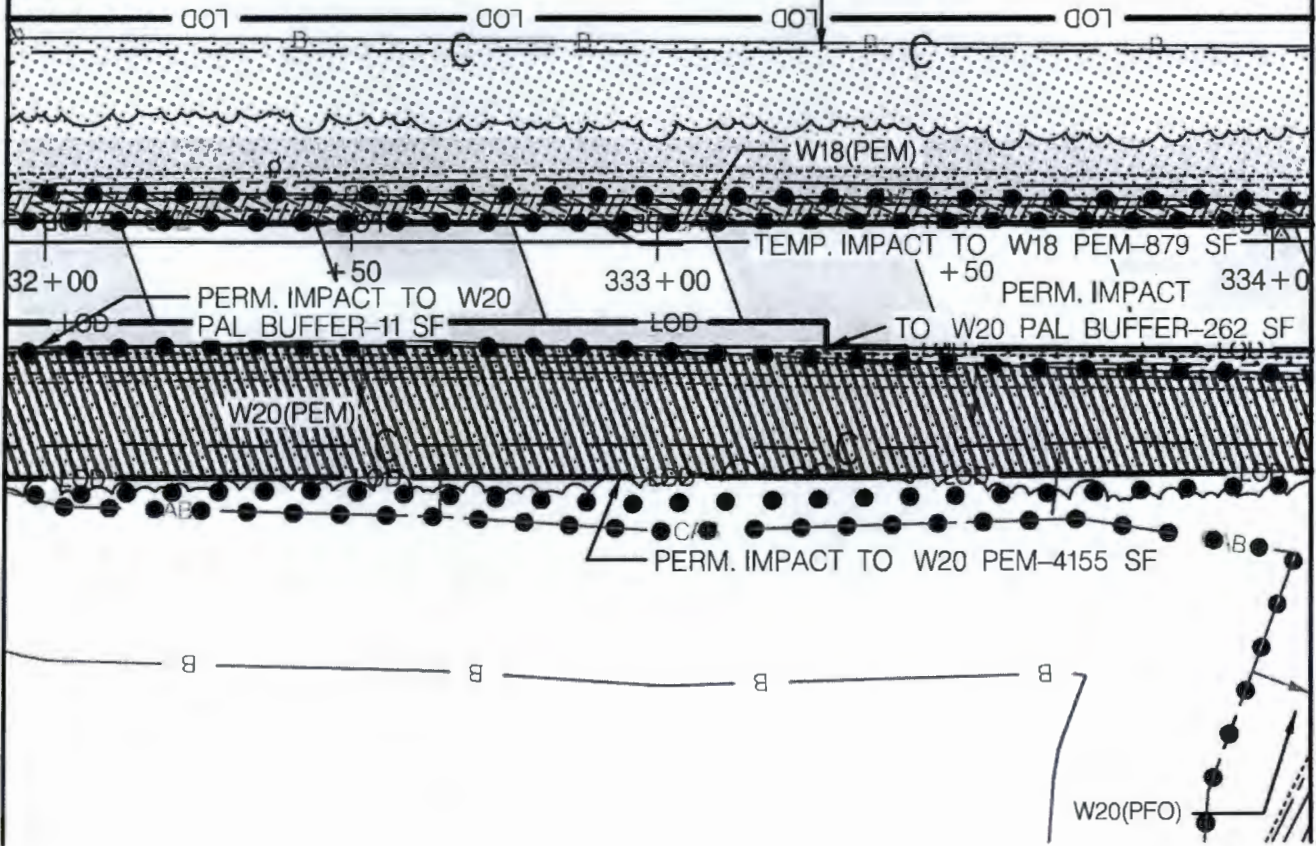
CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 16
SHEET 25 OF 76 DATE: JANUARY 2018
REVISION:



TEMP. IMPACT TO W18 PAL BUFFER-5323 SF

MATCH LINE SEE PLATE 16

MATCH LINE SEE PLATE 18



- TEMPORARY PALUSTRINE BUFFER IMPACTS
- TEMPORARY PEM WETLAND IMPACTS
- PERMANENT PALUSTRINE BUFFER IMPACTS
- PERMANENT PEM WETLAND IMPACTS

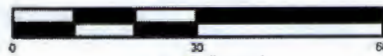
IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	4155 S.F.	879 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALLUSTRINE BUFFER	273 S.F.	5323 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	12019 S.F.
	5034 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

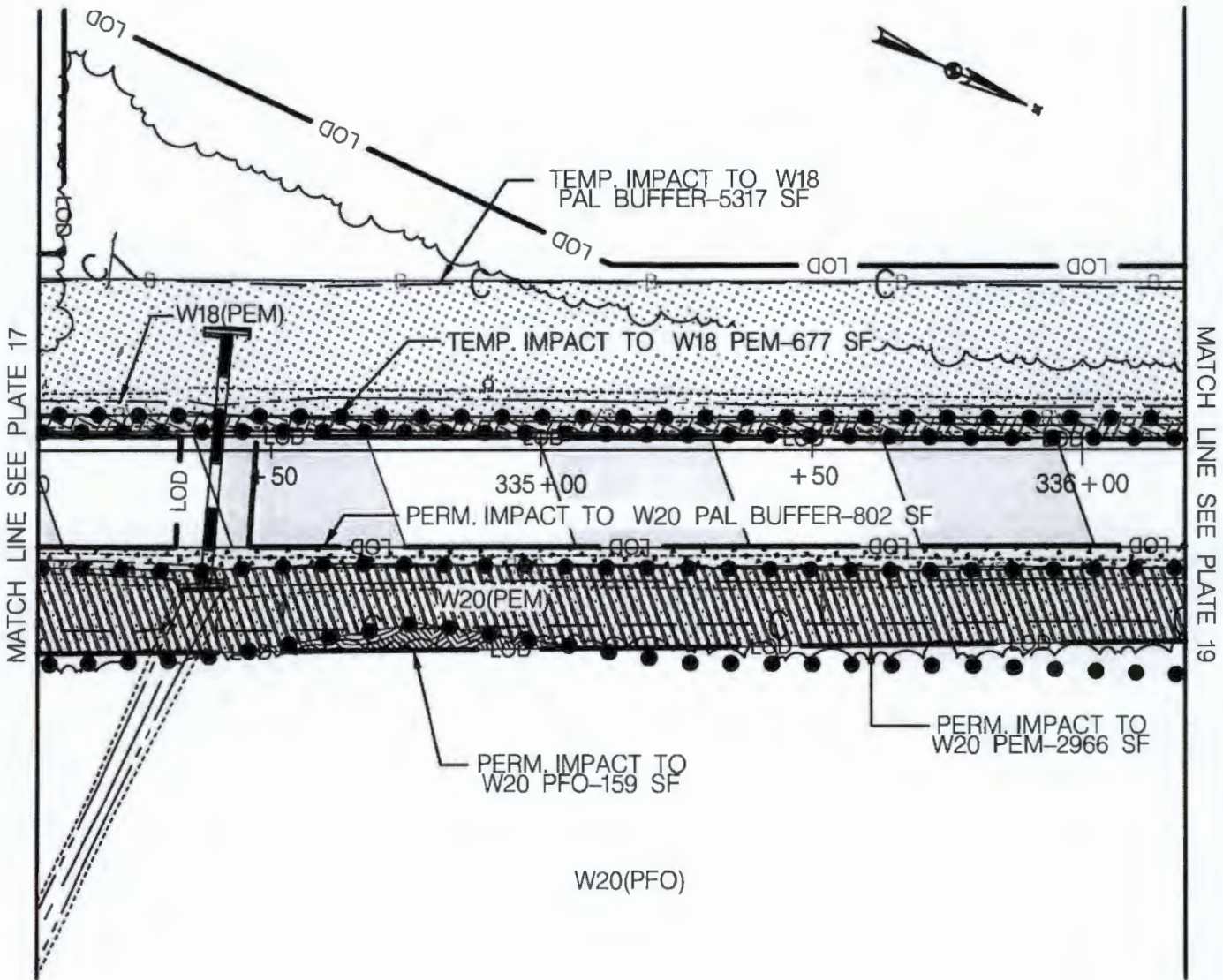


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 17
SHEET 26 OF 76 DATE: JANUARY 2018
REVISION:



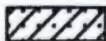
TEMPORARY PALUSTRINE BUFFER IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS



TEMPORARY PEM WETLAND IMPACTS



PERMANENT PEM WETLAND IMPACTS



PERMANENT PFO WETLAND IMPACTS

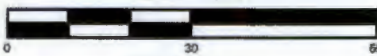
IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	159 S.F.	0 S.F.
PEM WETLAND	2966 S.F.	677 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	802 S.F.	5317 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	13436 S.F.
	3610 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171

COUNTY: ST. MARY'S

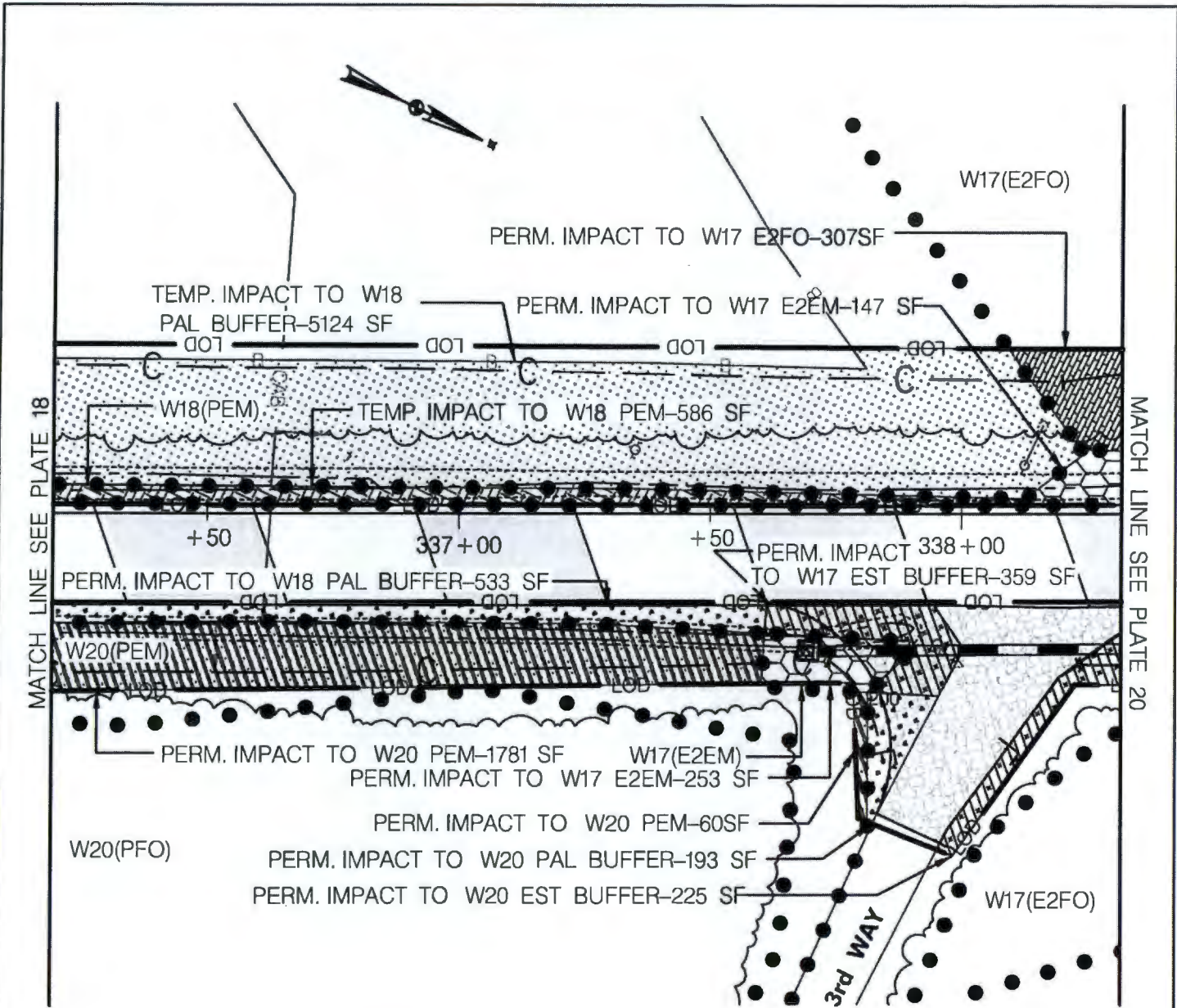
STATE: MARYLAND

APPLICATION BY: MDOT SHA

WETLAND PLATE NO. 18

SHEET 27 OF 76 DATE: JANUARY 2018

REVISION:



- PERMANENT ESTUARINE BUFFER IMPACTS
- TEMPORARY PEM WETLAND IMPACTS
- PERMANENT PEM WETLAND IMPACTS
- TEMPORARY PALUSTRINE BUFFER IMPACTS
- PERMANENT PALUSTRINE BUFFER IMPACTS
- PERMANENT E2EM WETLAND IMPACTS
- PERMANENT E2FO WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	1841 S.F.	586 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	400 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	307 S.F.	0 S.F.
PALUSTRINE BUFFER	728 S.F.	5124 S.F.
ESTUARINE BUFFER	584 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	11218 S.F.
	9694 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

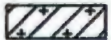
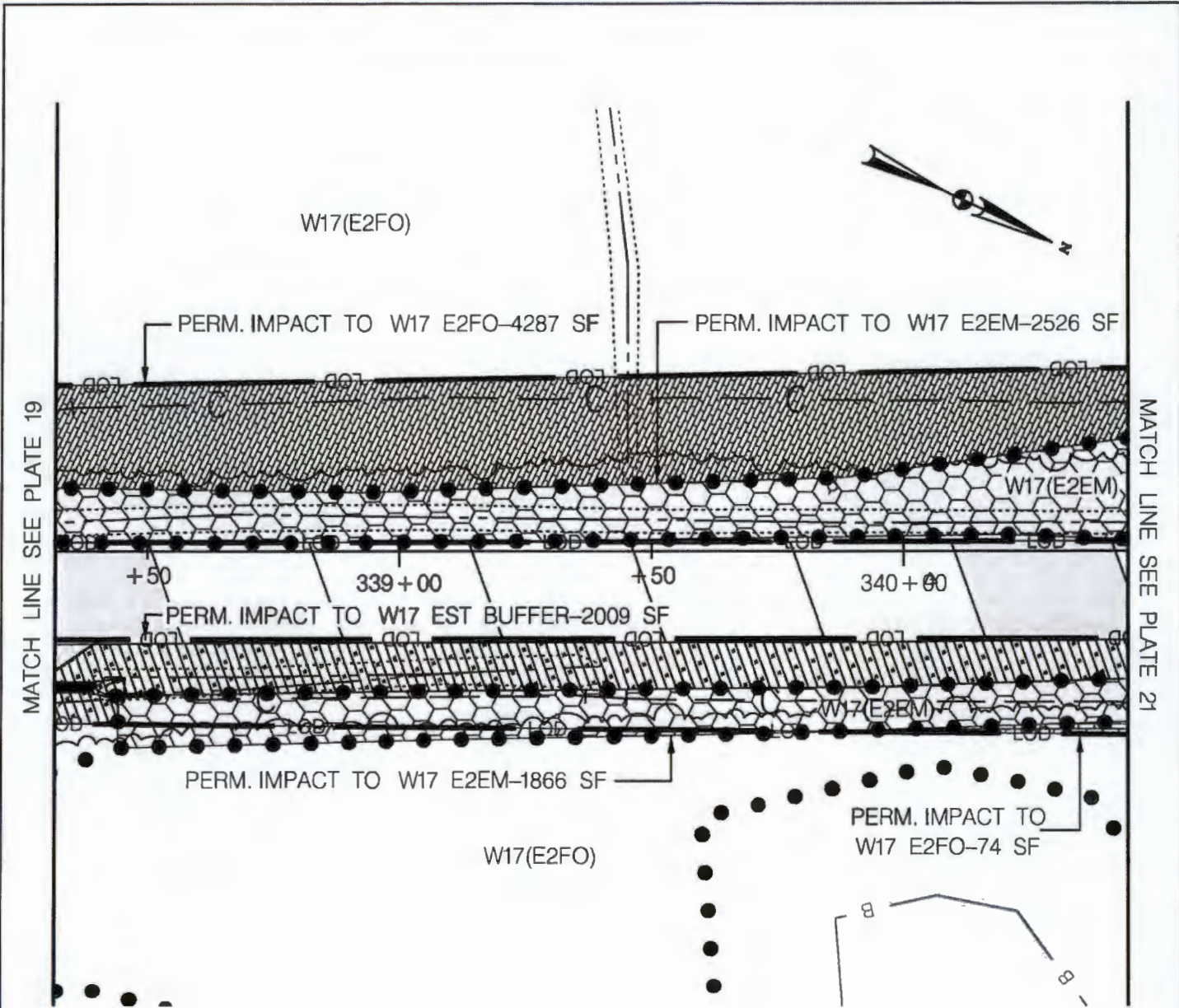


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 19
SHEET 28 OF 76 DATE: JANUARY 2018
REVISION:



PERMANENT ESTUARINE BUFFER IMPACTS



PERMANENT E2FO WETLAND IMPACTS



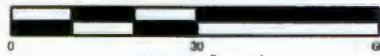
PERMANENT E2EM WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	0 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	4392 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	4361 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
PALUSTRINE BUFFER	2009 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	10694 S.F.	10684 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

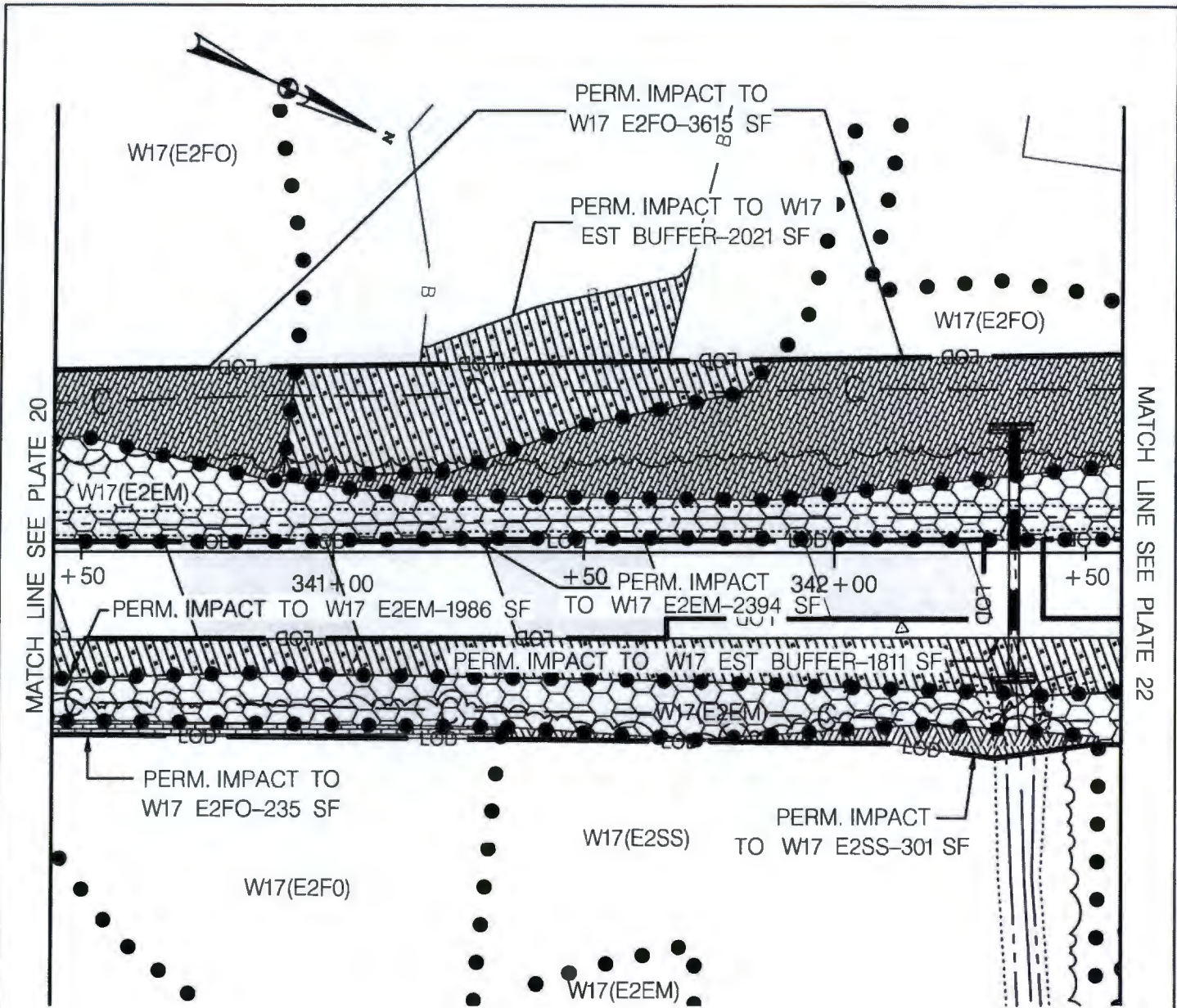


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 20
SHEET 29 OF 76 DATE: JANUARY 2018
REVISION:



MATCH LINE SEE PLATE 20

MATCH LINE SEE PLATE 22



PERMANENT E2EM WETLAND IMPACTS



PERMANENT ESTUARINE BUFFER IMPACTS



PERMANENT E2FO WETLAND IMPACTS



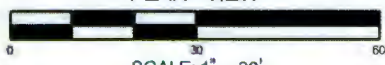
PERMANENT E2SS WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	0 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	301 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	4390 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	3850 S.F.	0 S.F.
PALUSTRINE BUFFER	0 S.F.	0 S.F.
ESTUARINE BUFFER	3832 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	12406 S.F.	12406 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'

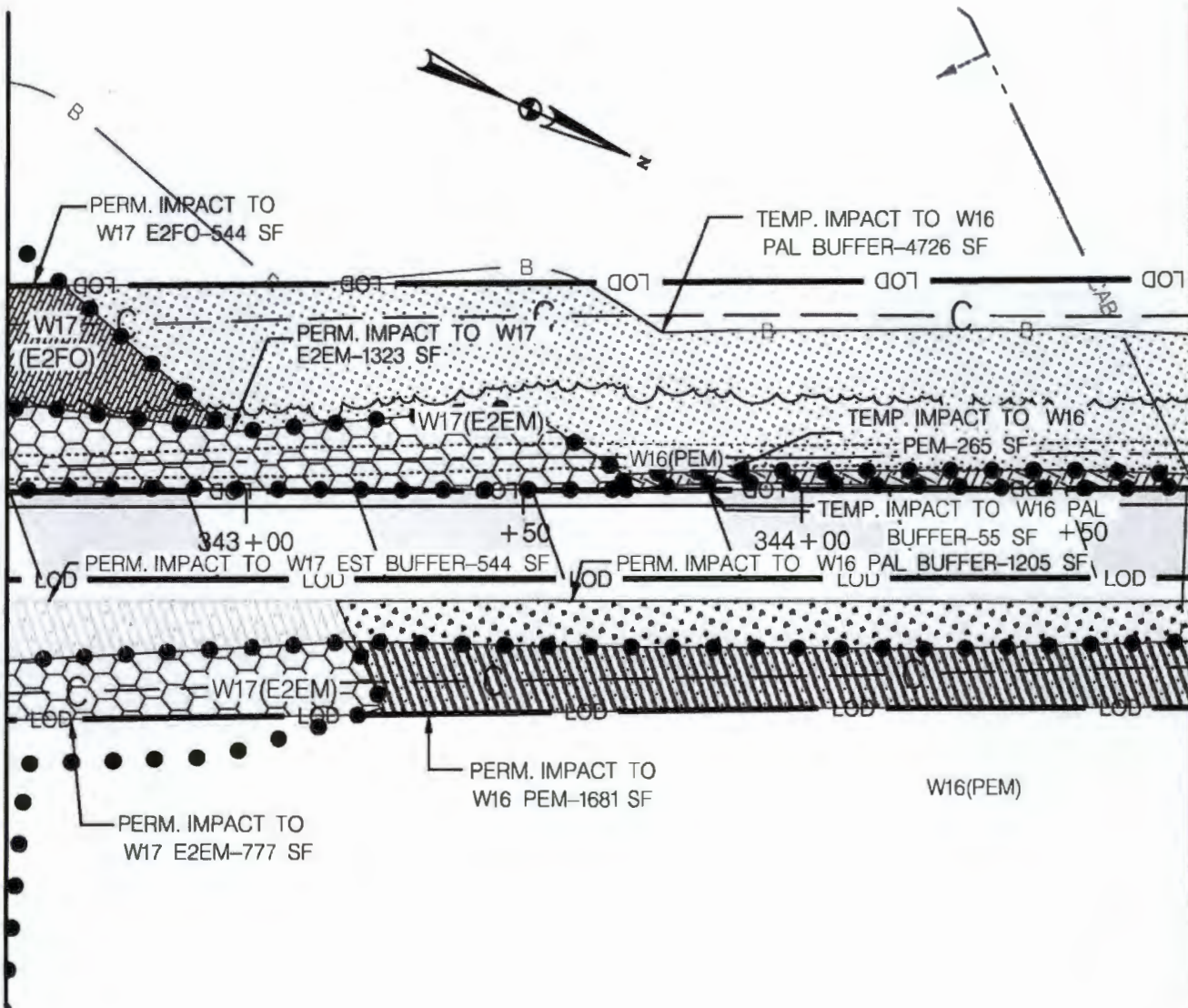








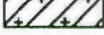
MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 21
SHEET 30 OF 76 DATE: JANUARY 2018
REVISION:

MATCH LINE SEE PLATE 21

MATCH LINE SEE PLATE 23



-  PERMANENT E2FO WETLAND IMPACTS
-  PERMANENT PEM WETLAND IMPACTS
-  TEMPORARY PEM WETLAND IMPACTS
-  PERMANENT PALUSTRINE BUFFER IMPACTS
-  PERMANENT E2EM WETLAND IMPACTS
-  TEMPORARY PALUSTRINE BUFFER IMPACTS
-  PERMANENT ESTUARINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

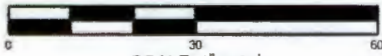
	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	1681 S.F.	265 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	2100 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	544 S.F.	0 S.F.
PALUSTRINE BUFFER	1205 S.F.	4781 S.F.
ESTUARINE BUFFER	544 S.F.	0 S.F.

100-YEAR FLOODPLAIN
CRITICAL AREA

	12924 S.F.
	12742 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

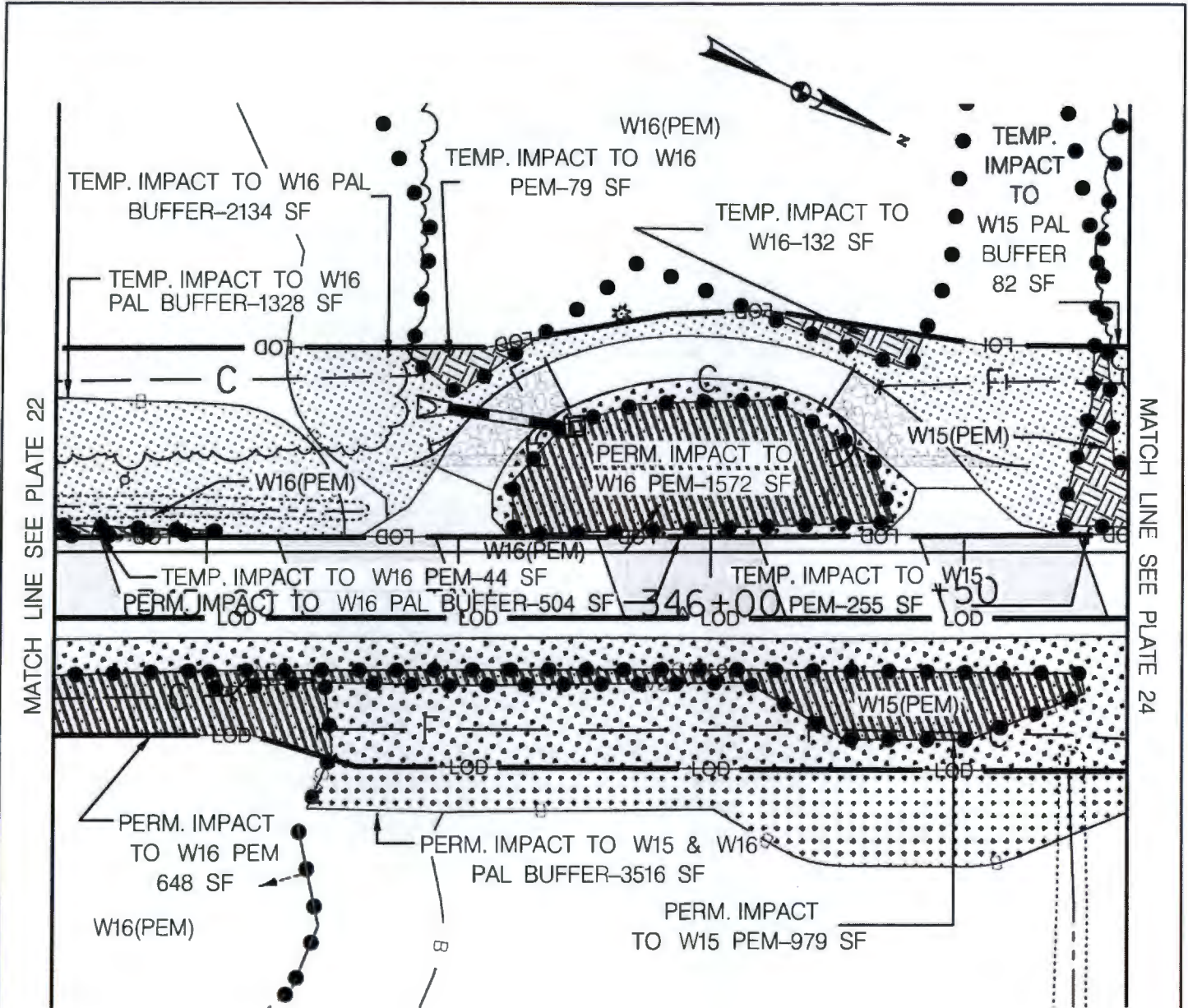


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 22
SHEET 31 OF 76 DATE: JANUARY 2018
REVISION:



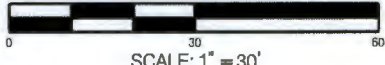
	PERMANENT PEM WETLAND IMPACTS		PERMANENT PALUSTRINE BUFFER IMPACTS
	TEMPORARY PEM WETLAND IMPACTS		TEMPORARY PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	3199 S.F.	510 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	4020 S.F.	3544 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	14356 S.F.	1871 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

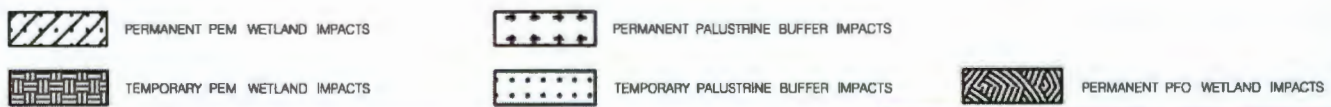
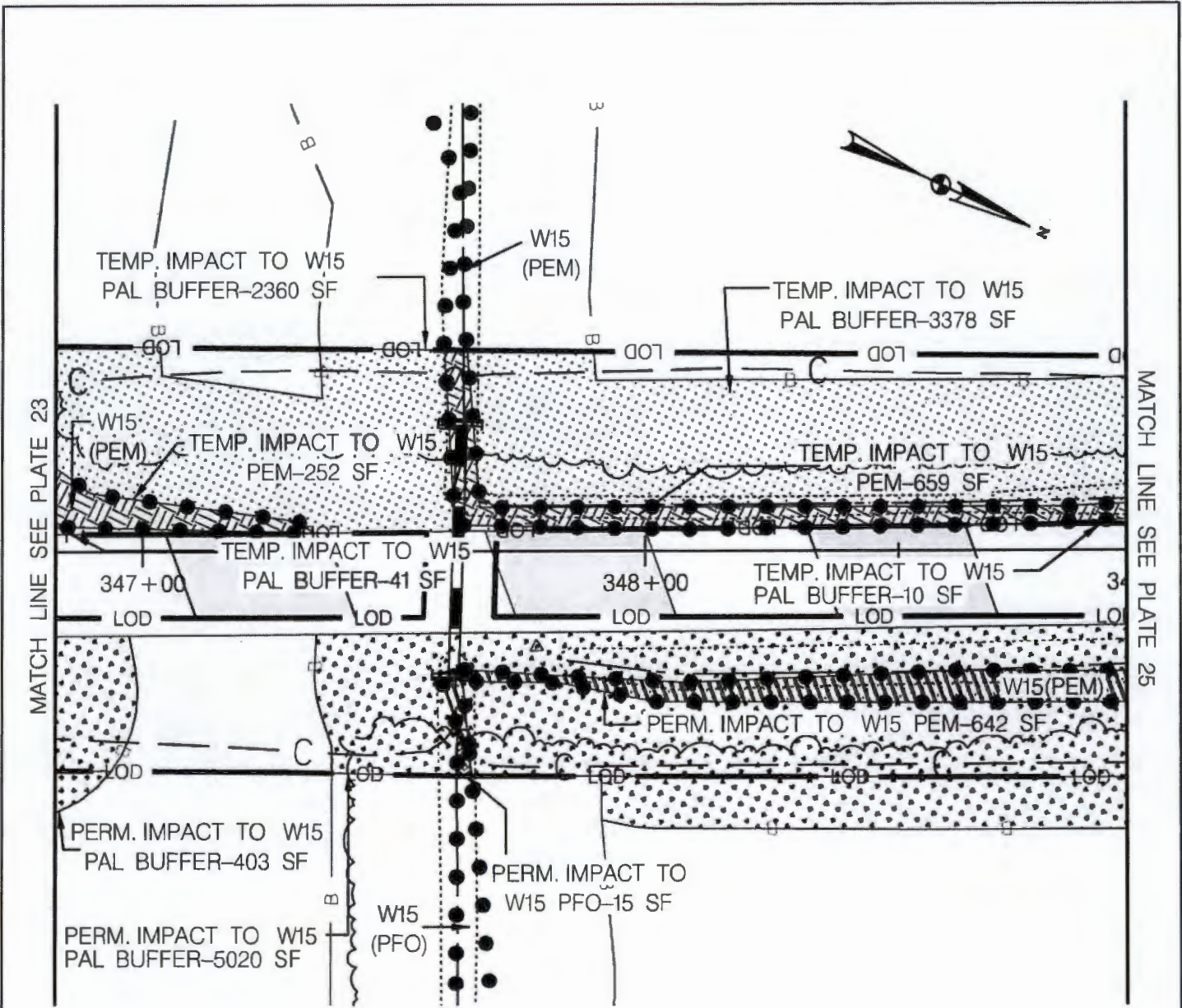


SCALE: 1" = 30'



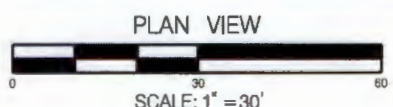
MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 23
SHEET 32 OF 76 DATE: JANUARY 2018
REVISION:



IMPACTS TO THIS PLATE

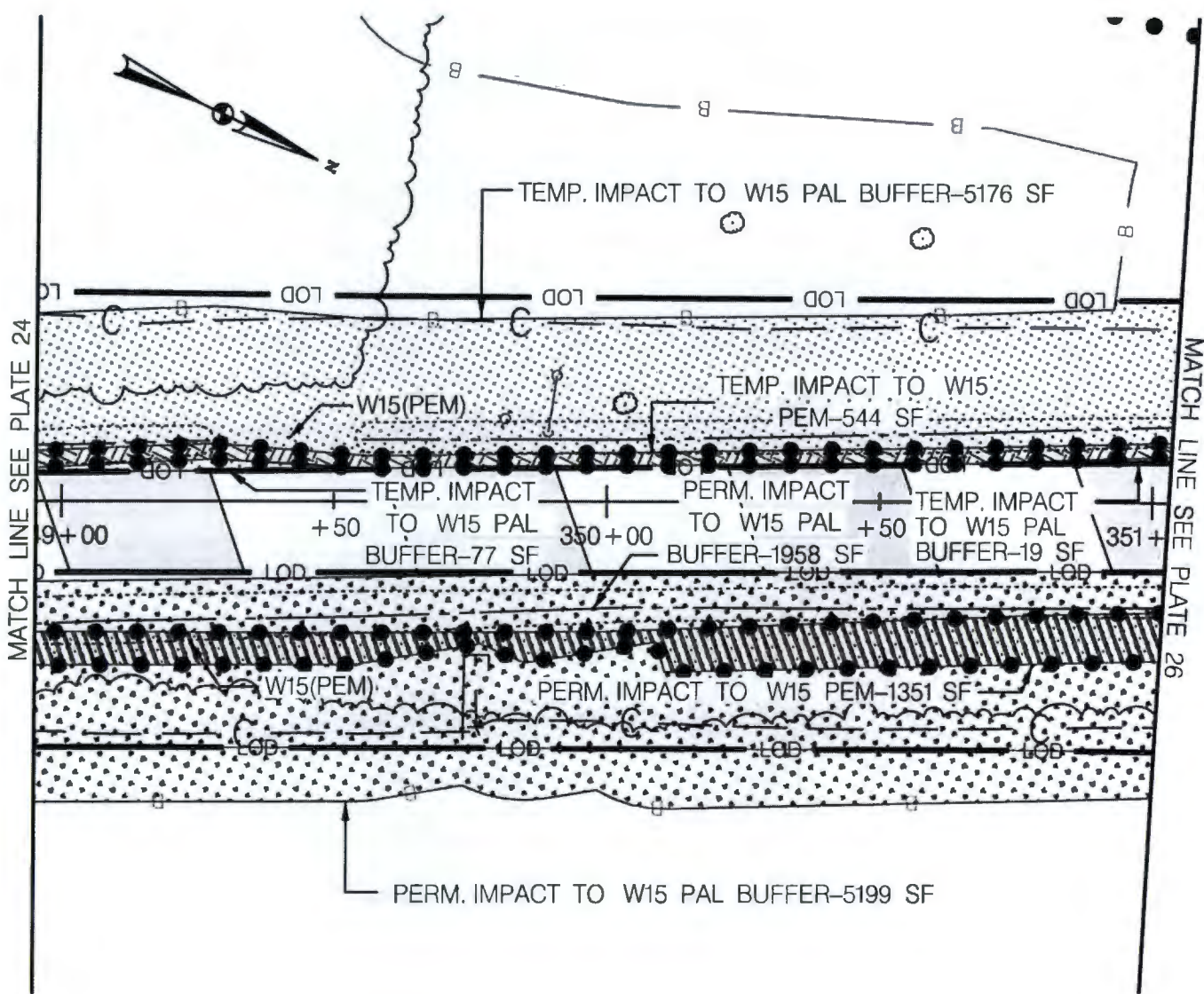
	PERMANENT	TEMPORARY
PFO WETLAND	15 S.F.	0 S.F.
PEM WETLAND	642 S.F.	911 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	5423 S.F.	5789 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	14359 S.F.	0 S.F.



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 24
SHEET 33 OF 76 DATE: JANUARY 2018
REVISION:

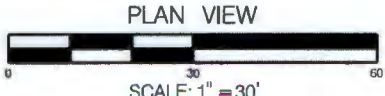
PURPOSE: MD 5 WETLAND IMPACTS



-  PERMANENT PALUSTRINE BUFFER IMPACTS
-  TEMPORARY PALUSTRINE BUFFER IMPACTS
-  PERMANENT PEM WETLAND IMPACTS
-  TEMPORARY PEM WETLAND IMPACTS

IMPACTS TO THIS PLATE

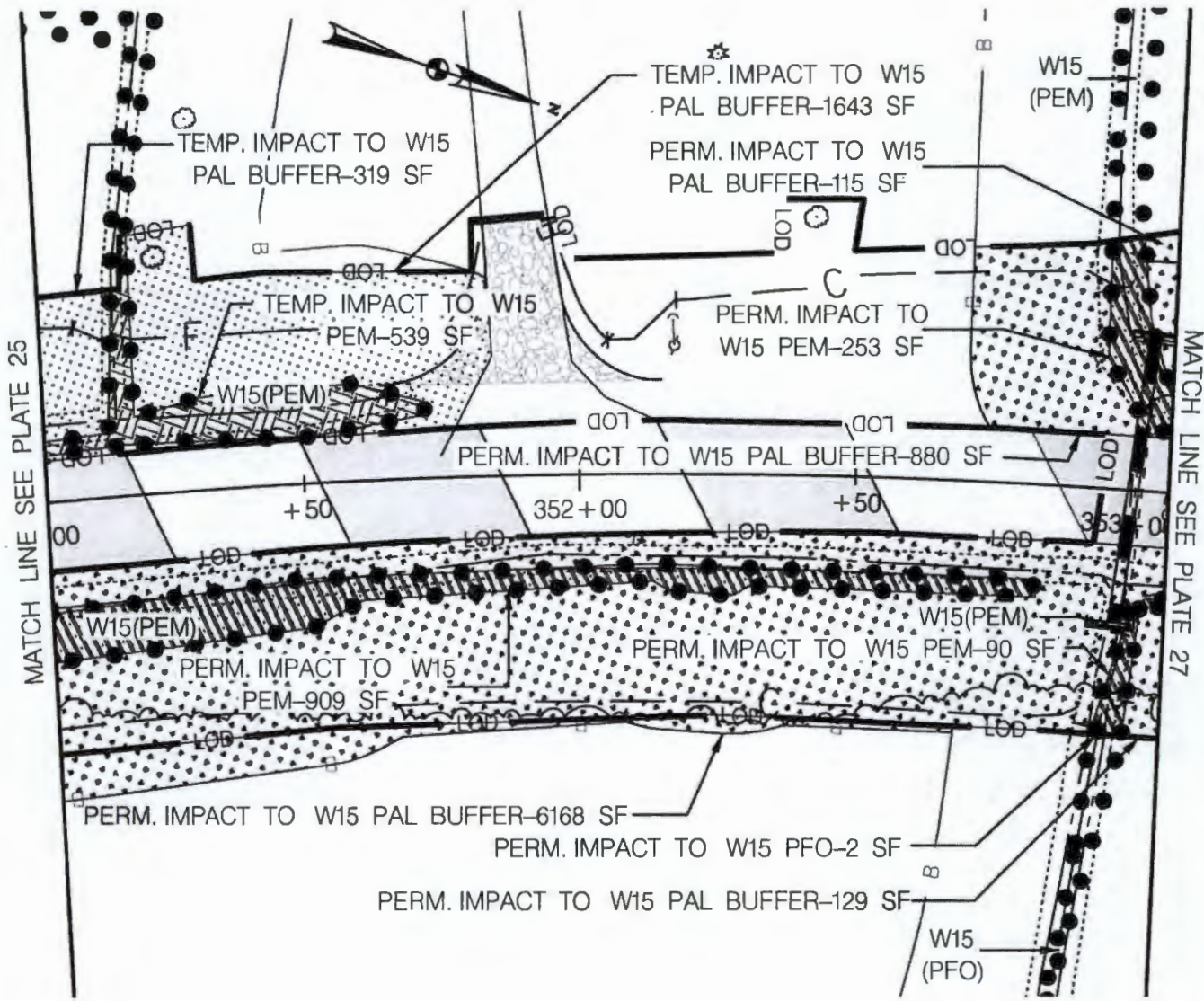
	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	1351 S.F.	544 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	7157 S.F.	5272 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	13132 S.F.	0 S.F.



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

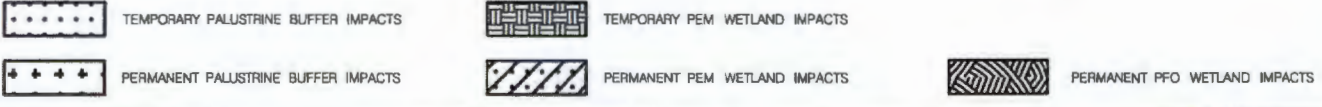
CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 25
SHEET 34 OF 76 DATE: JANUARY 2018
REVISION:

PURPOSE: MD 5 WETLAND IMPACTS



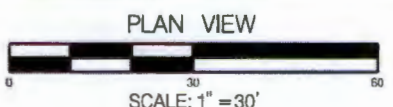
MATCH LINE SEE PLATE 25

MATCH LINE SEE PLATE 27



IMPACTS TO THIS PLATE

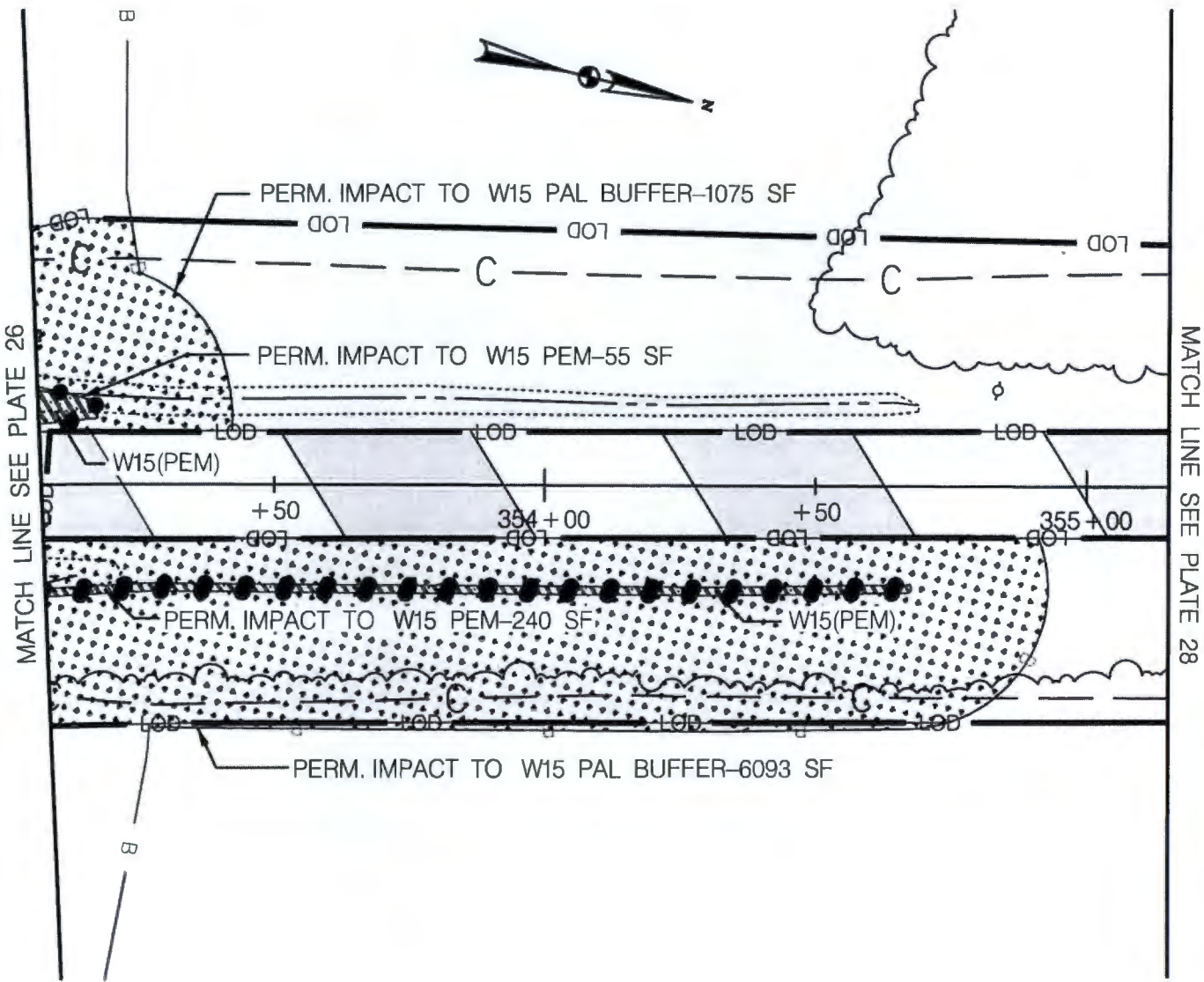
	PERMANENT	TEMPORARY
PFO WETLAND	2 S.F.	0 S.F.
PEM WETLAND	1252 S.F.	539 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	7292 S.F.	1962 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	13730 S.F.	0 S.F.



MARYLAND DEPARTMENT OF TRANSPORTATION
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BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 26
SHEET 35 OF 76 DATE: JANUARY 2018
REVISION:

PURPOSE: MD 5 WETLAND IMPACTS



PERMANENT PEM WETLAND IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	295 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	7168 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	14803 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

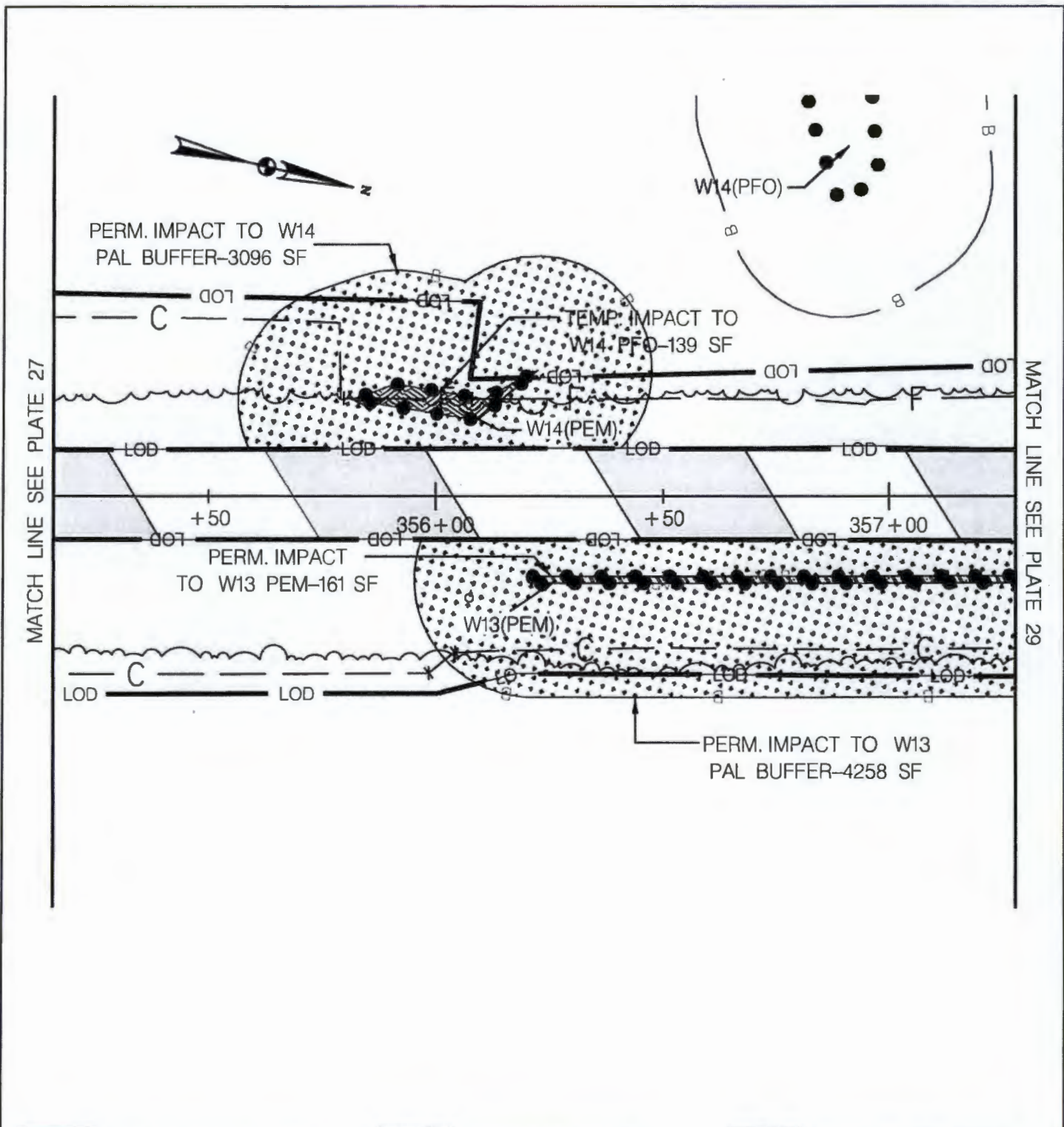


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 27
SHEET 36 OF 76 DATE: JANUARY 2018
REVISION:



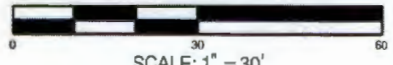
PERMANENT PALUSTRINE BUFFER IMPACTS
 PERMANENT PFO WETLAND IMPACTS
 PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	139 S.F.	0 S.F.
PEM WETLAND	161 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2S TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	7354 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	11778 S.F.	181 S.F.

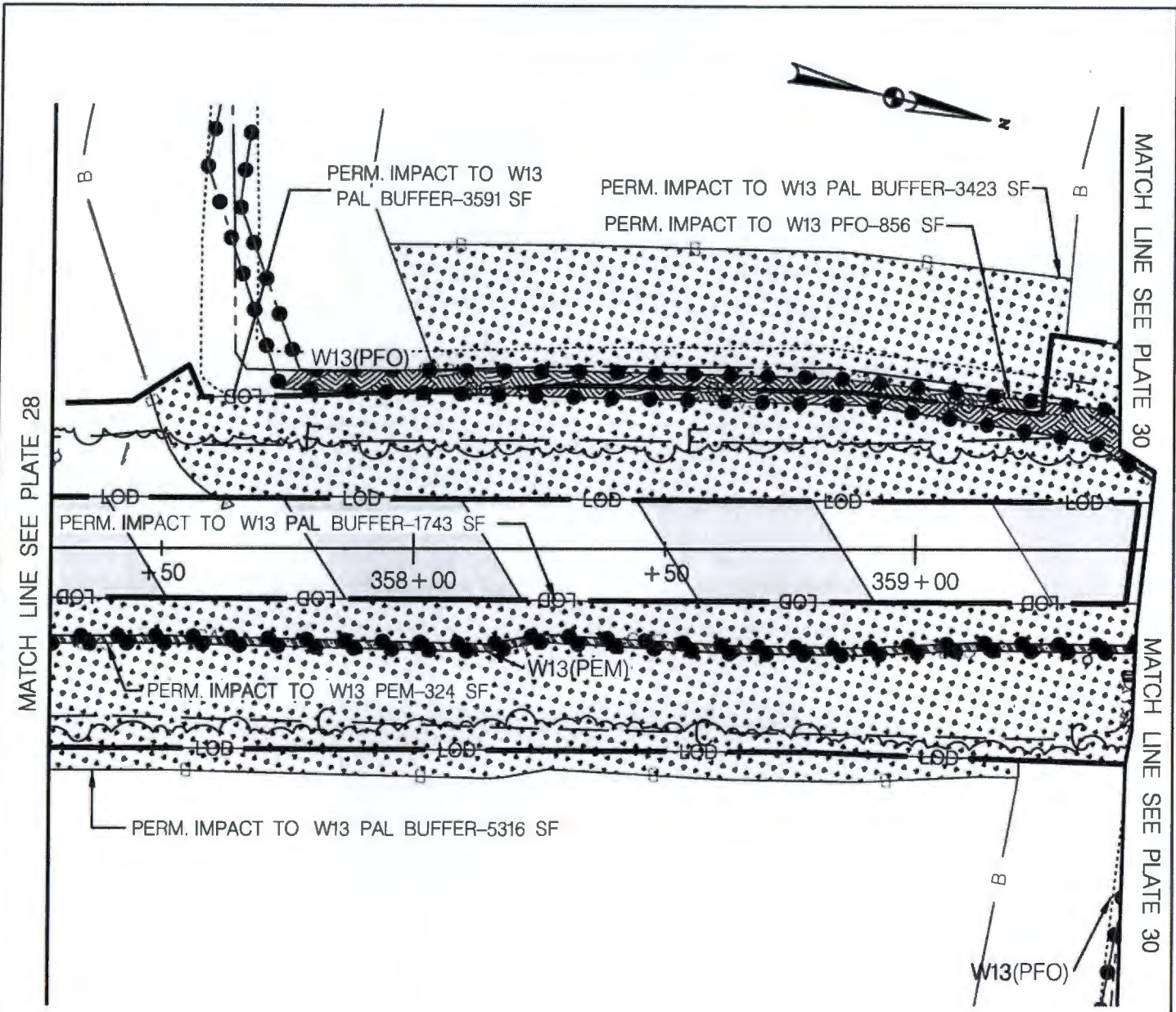
PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 WETLAND PLATE NO. 28
 SHEET 37 OF 76 DATE: JANUARY 2018
 REVISION:



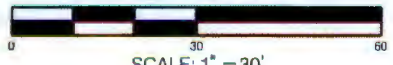
PERMANENT PALUSTRINE BUFFER IMPACTS
 PERMANENT PEM WETLAND IMPACTS
 PERMANENT PFO WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	856 S.F.	0 S.F.
PEM WETLAND	324 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2BS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	14073 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	11201 S.F.	1190 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

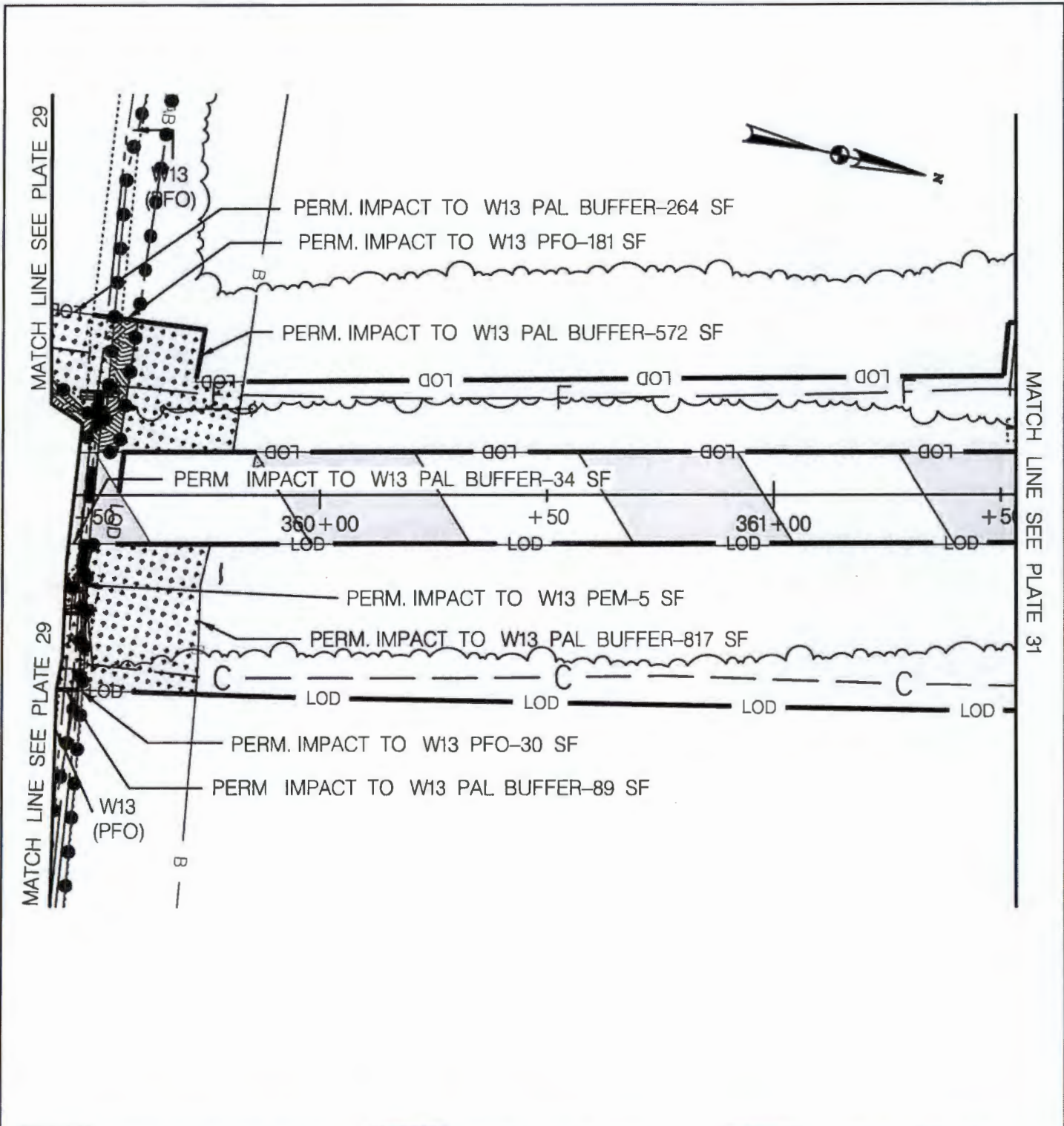


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 29
SHEET 38 OF 76 DATE: JANUARY 2018
REVISION:



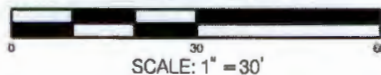
IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	211 S.F.	0 S.F.
PEM WETLAND	5 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	1776 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	11252 S.F.
	218 S.F.

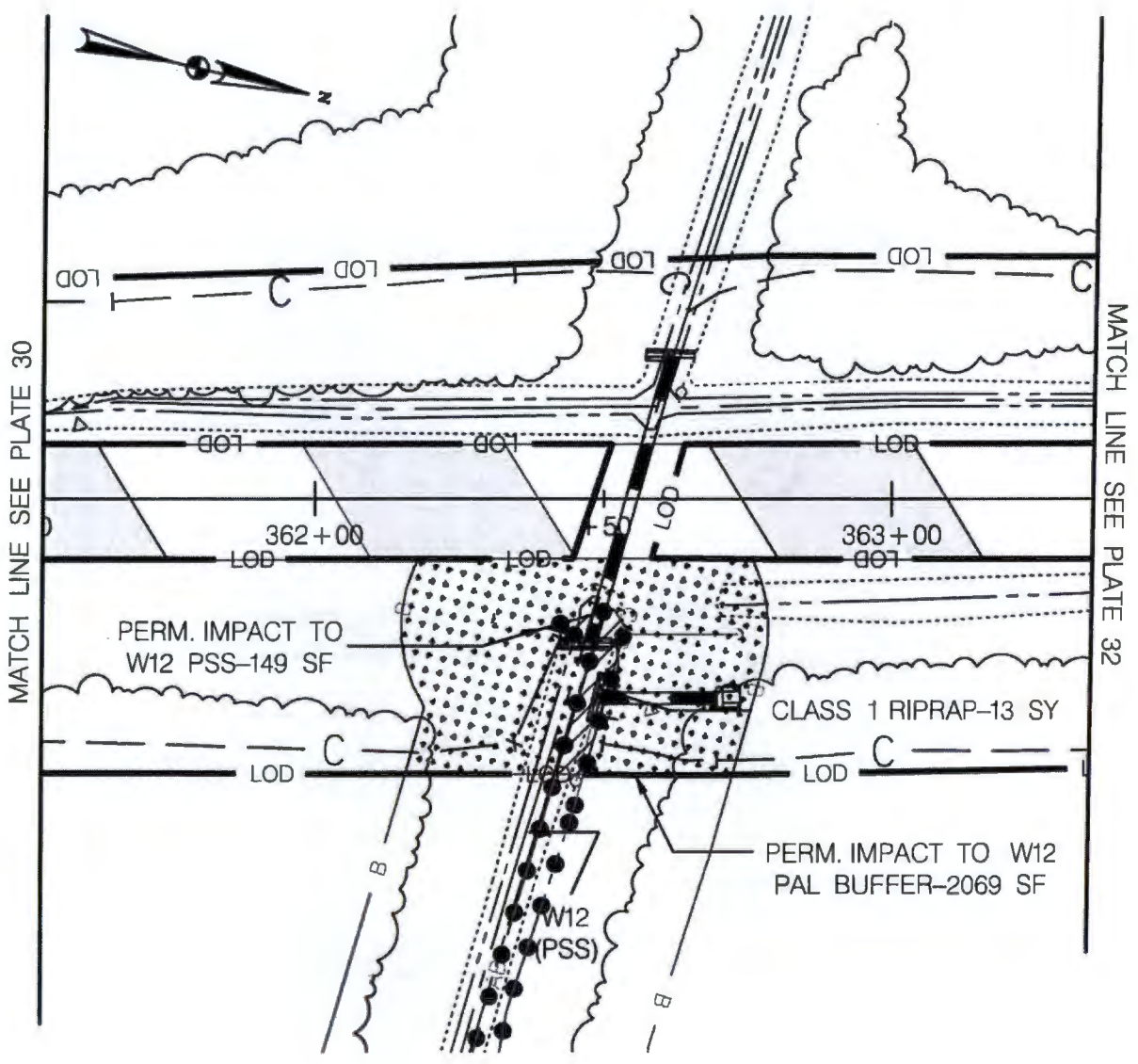
PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

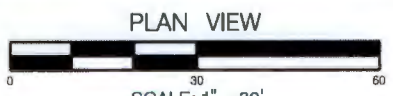
CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 30
SHEET 39 OF 76 DATE: JANUARY 2018
REVISION:



PERMANENT PALUSTRINE BUFFER IMPACTS
 PERMANENT PSS WETLAND IMPACTS

IMPACTS TO THIS PLATE

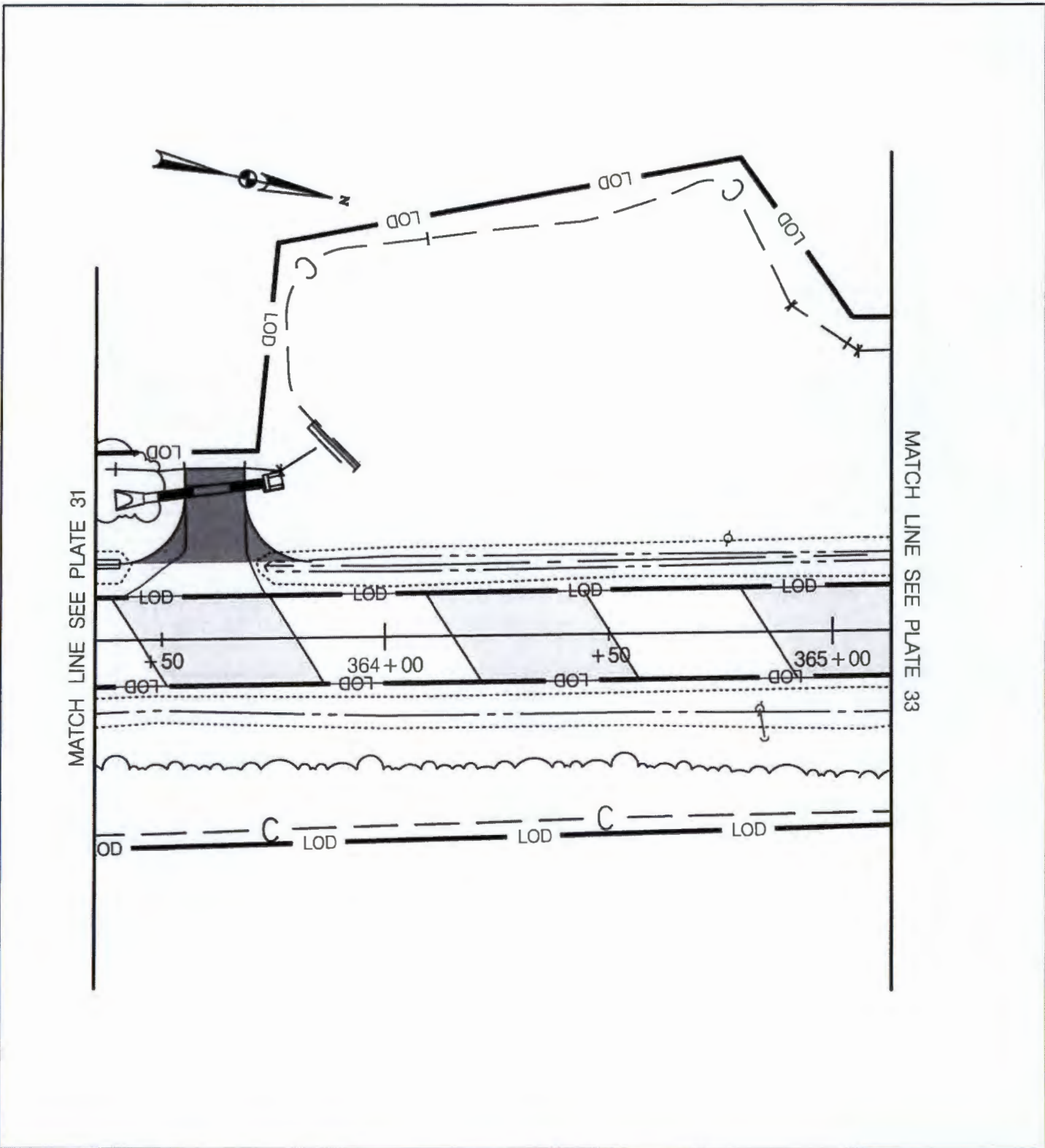
	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	0 S.F.	0 S.F.
PSS WETLAND	149 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	2069 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	12560 S.F.	149 S.F.



MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 WETLAND PLATE NO. 31
 SHEET 40 OF 76 DATE: JANUARY 2018
 REVISION:

PURPOSE: MD 5 WETLAND IMPACTS



IMPACTS TO THIS PLATE

- PFO WETLAND
- PEM WETLAND
- PSS WETLAND
- E2SS WETLAND
- E2SS TIDAL WETLAND
- E2EM WETLAND
- E2EM TIDAL WETLAND
- E2FO WETLAND
- PALUSTRINE BUFFER
- ESTUARINE BUFFER

	PERMANENT	TEMPORARY
	0 S.F.	0 S.F.
	0 S.F.	0 S.F.
	0 S.F.	0 S.F.
	0 S.F.	0 S.F.
	0 S.F.	0 S.F.
	0 S.F.	0 S.F.
	0 S.F.	0 S.F.
	0 S.F.	0 S.F.
	0 S.F.	0 S.F.
	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	19027 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

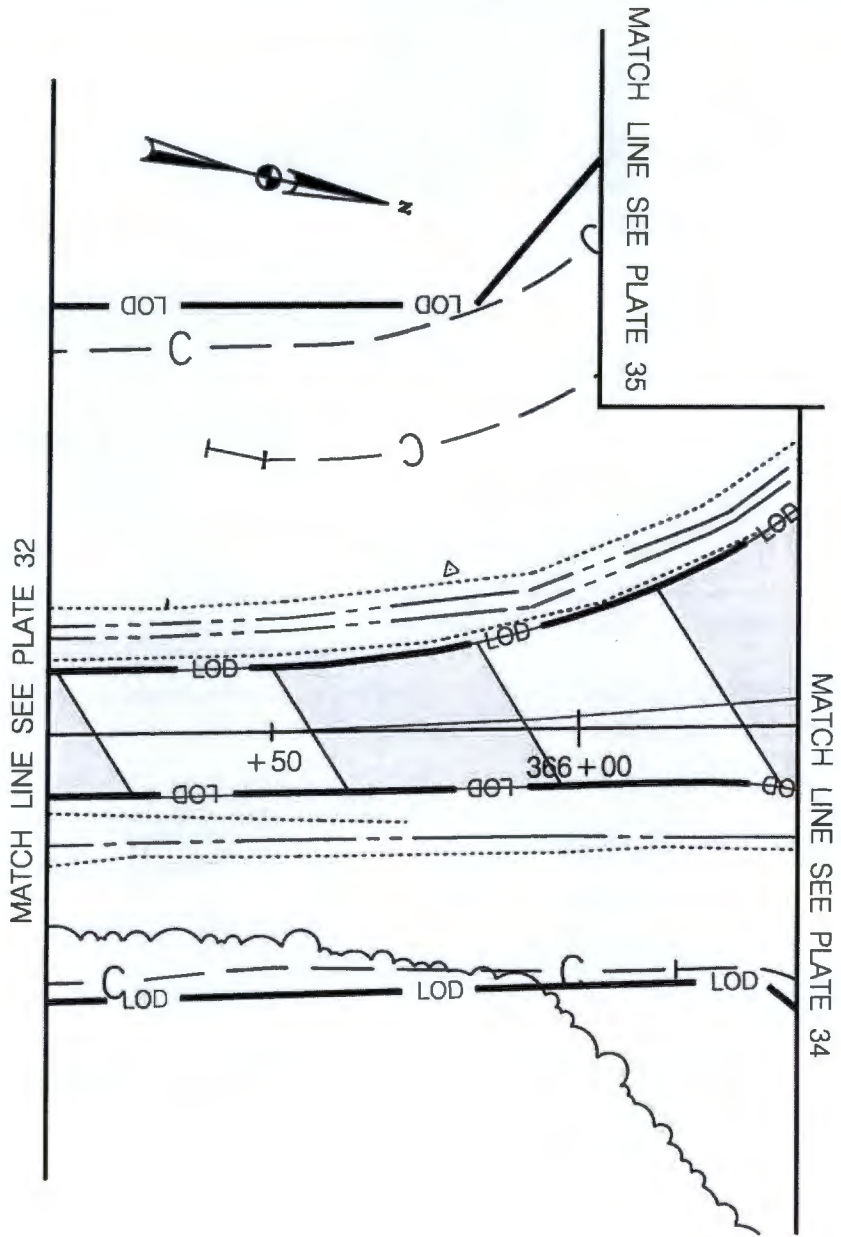


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 32
SHEET 41 OF 76 DATE: JANUARY 2018
REVISION:



IMPACTS TO THIS PLATE

- PFO WETLAND
- PEM WETLAND
- PSS WETLAND
- E2SS WETLAND
- E2SS TIDAL WETLAND
- E2EM WETLAND
- E2EM TIDAL WETLAND
- E2FO WETLAND
- PALUSTRINE BUFFER
- ESTUARINE BUFFER

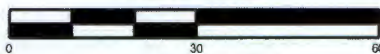
	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	0 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	0 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN
CRITICAL AREA

10173	S.F.
0	S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'



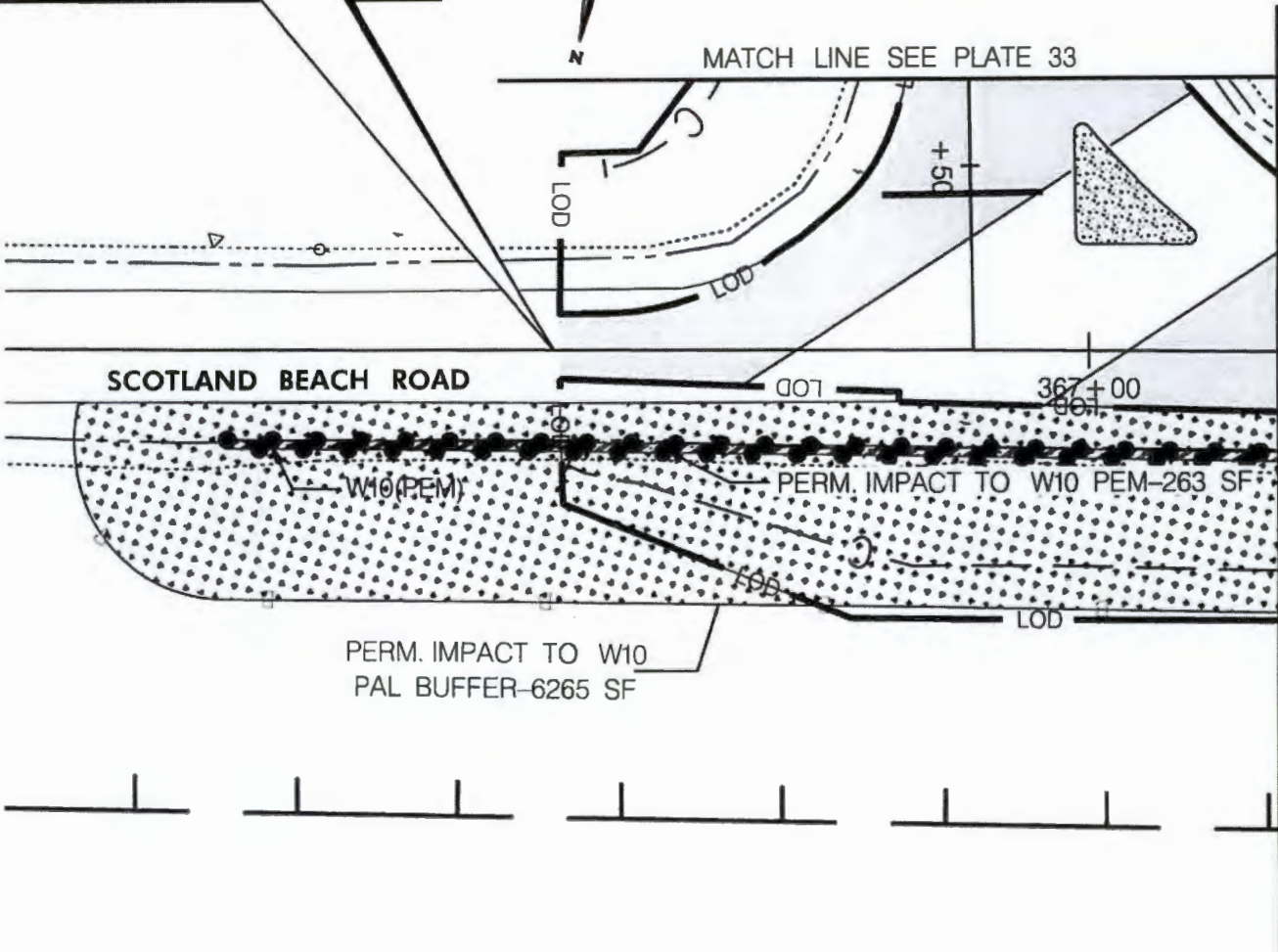
MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 33
SHEET 42 OF 76 DATE: JANUARY 2018
REVISION:

LIMIT OF WORK
 SM7745171
 SCOTLAND BEACH ROAD
 STA. 202 + 30



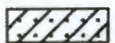
MATCH LINE SEE PLATE 33



MATCH LINE SEE PLATE 35



PERMANENT PALUSTRINE BUFFER IMPACTS



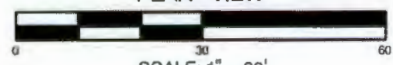
PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY	
PFO WETLAND	0 S.F.	0 S.F.	
PEM WETLAND	263 S.F.	0 S.F.	
PSS WETLAND	0 S.F.	0 S.F.	
E2SS WETLAND	0 S.F.	0 S.F.	
E2SS TIDAL WETLAND	0 S.F.	0 S.F.	
E2EM WETLAND	0 S.F.	0 S.F.	
E2EM TIDAL WETLAND	0 S.F.	0 S.F.	
E2FO WETLAND	0 S.F.	0 S.F.	
PALUSTRINE BUFFER	6265 S.F.	0 S.F.	
ESTUARINE BUFFER	0 S.F.	0 S.F.	
100-YEAR FLOODPLAIN CRITICAL AREA	5585 S.F.	0 S.F.	

PURPOSE: MD 5 WETLAND IMPACTS

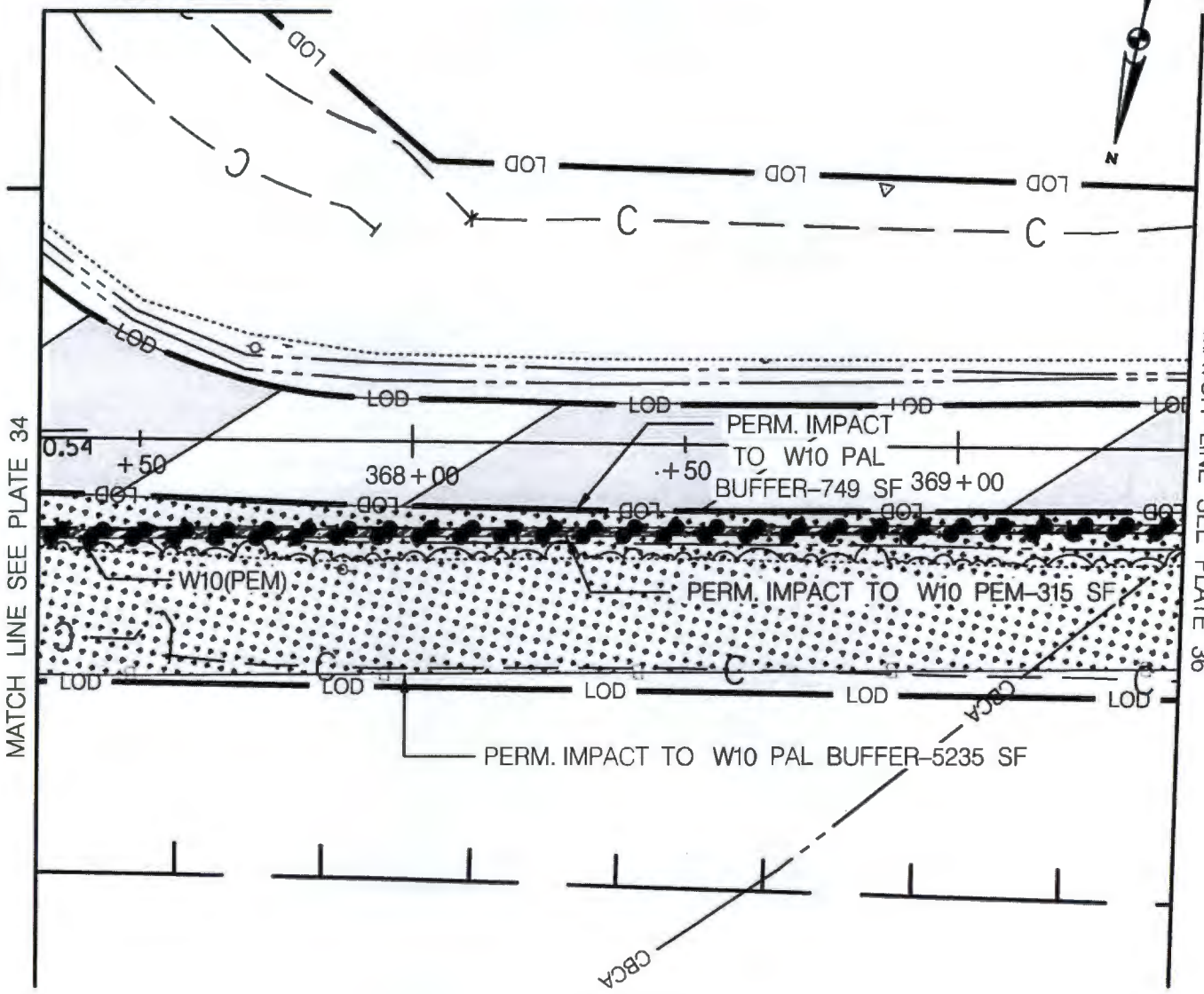
PLAN VIEW



MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 WETLAND PLATE NO. 34
 SHEET 43 OF 76 DATE: JANUARY 2018
 REVISION:

MATCH LINE
SEE PLATE 33



MATCH LINE SEE PLATE 34

MATCH LINE SEE PLATE 36

PERMANENT PALUSTRINE BUFFER IMPACTS

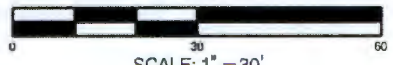
PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	315 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	5984 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	17077 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

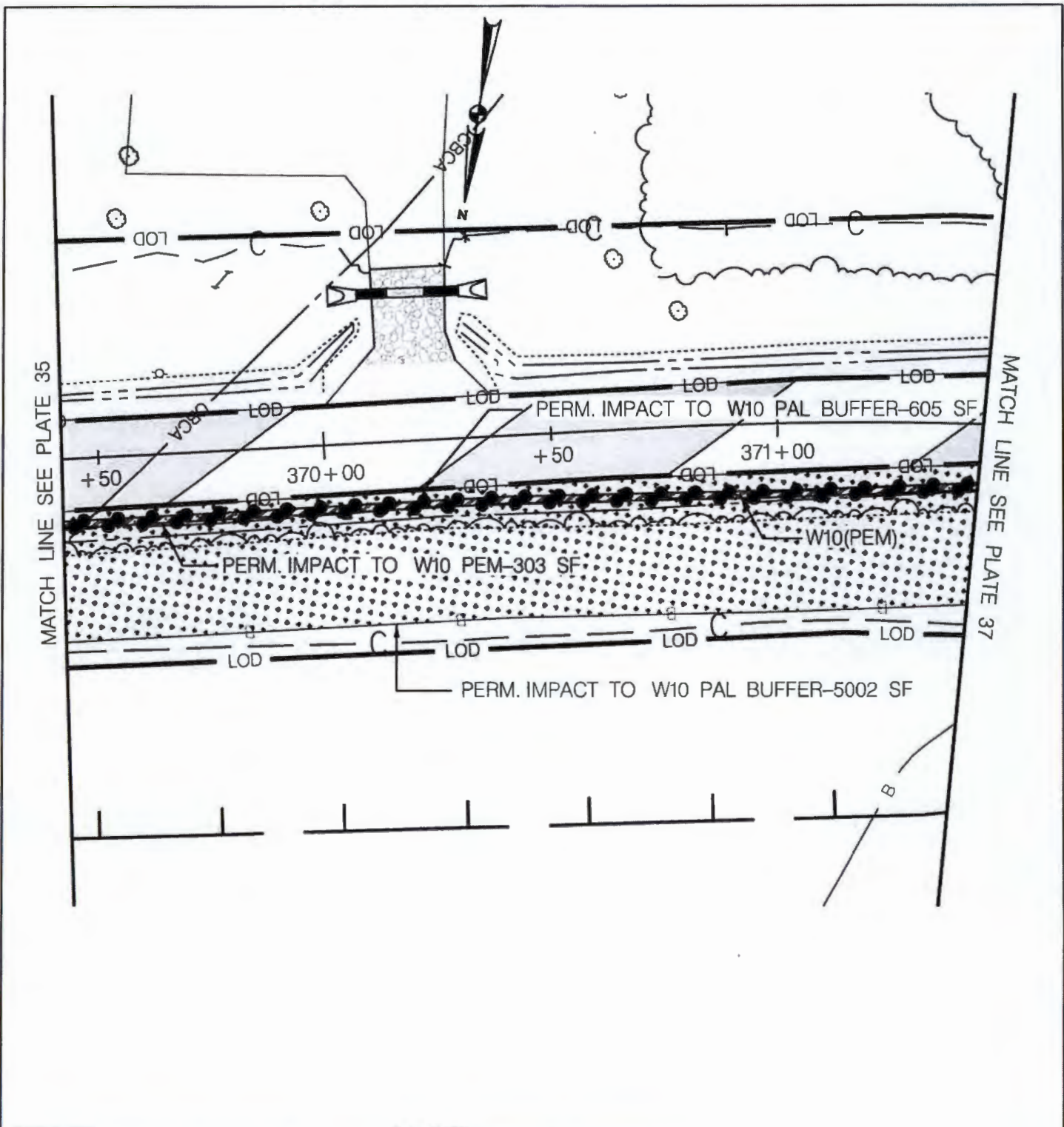


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 35
SHEET 44 OF 76 DATE: JANUARY 2018
REVISION:



PERMANENT PALUSTRINE BUFFER IMPACTS



PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS PLATE

- PFO WETLAND
- PEM WETLAND
- FSS WETLAND
- E2SS WETLAND
- E2SS TIDAL WETLAND
- E2EM WETLAND
- E2EM TIDAL WETLAND
- E2FO WETLAND
- PALUSTRINE BUFFER
- ESTUARINE BUFFER

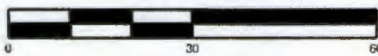
	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	303 S.F.	0 S.F.
FSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	5607 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN
CRITICAL AREA

14741	S.F.
0	S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171

COUNTY: ST. MARY'S

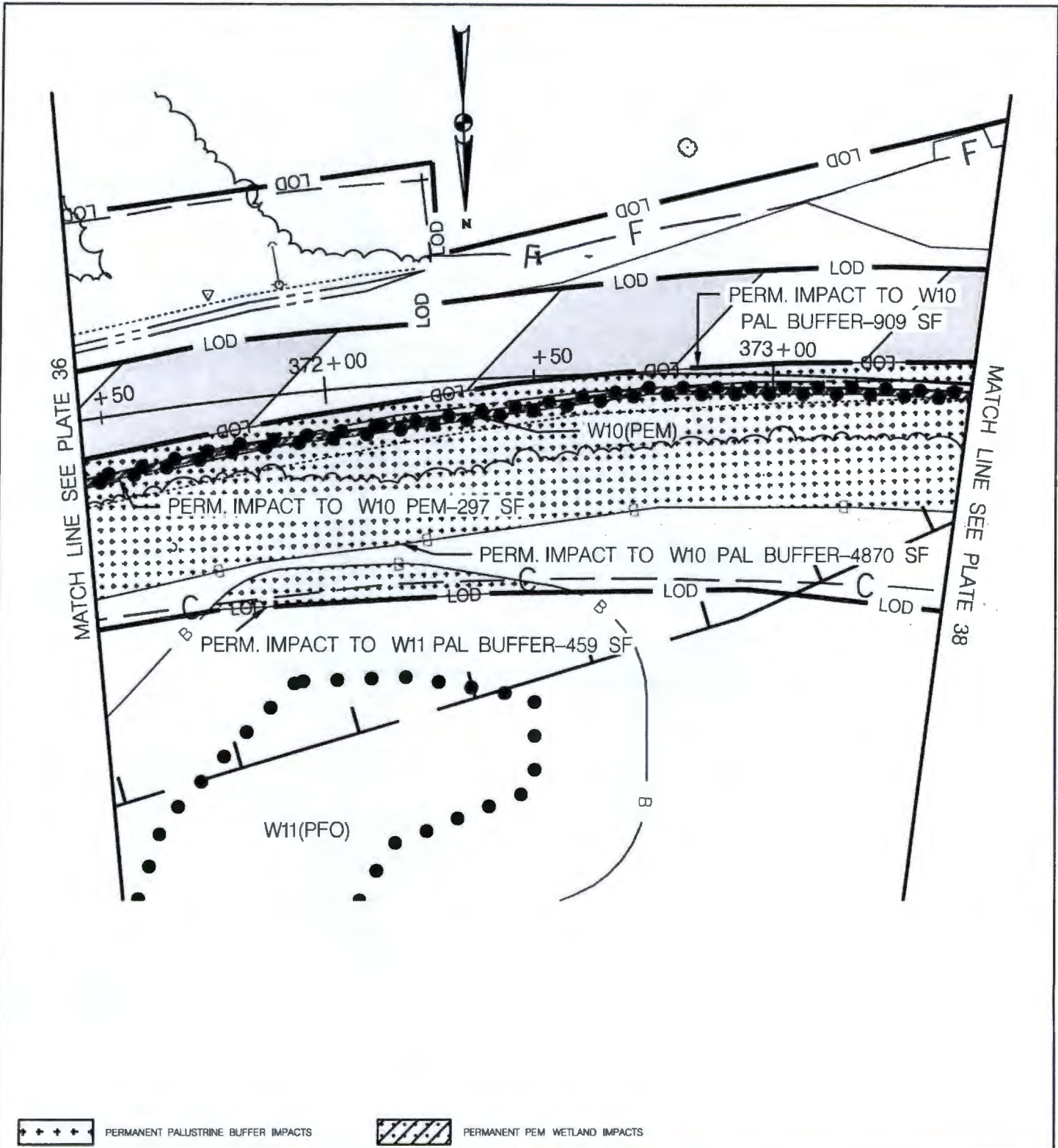
STATE: MARYLAND

APPLICATION BY: MDOT SHA

WETLAND PLATE NO. 36

SHEET 45 OF 76 DATE: JANUARY 2018

REVISION:



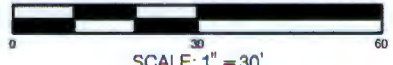
 PERMANENT PALUSTRINE BUFFER IMPACTS
  PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS DATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	297 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	8238 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	1732 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

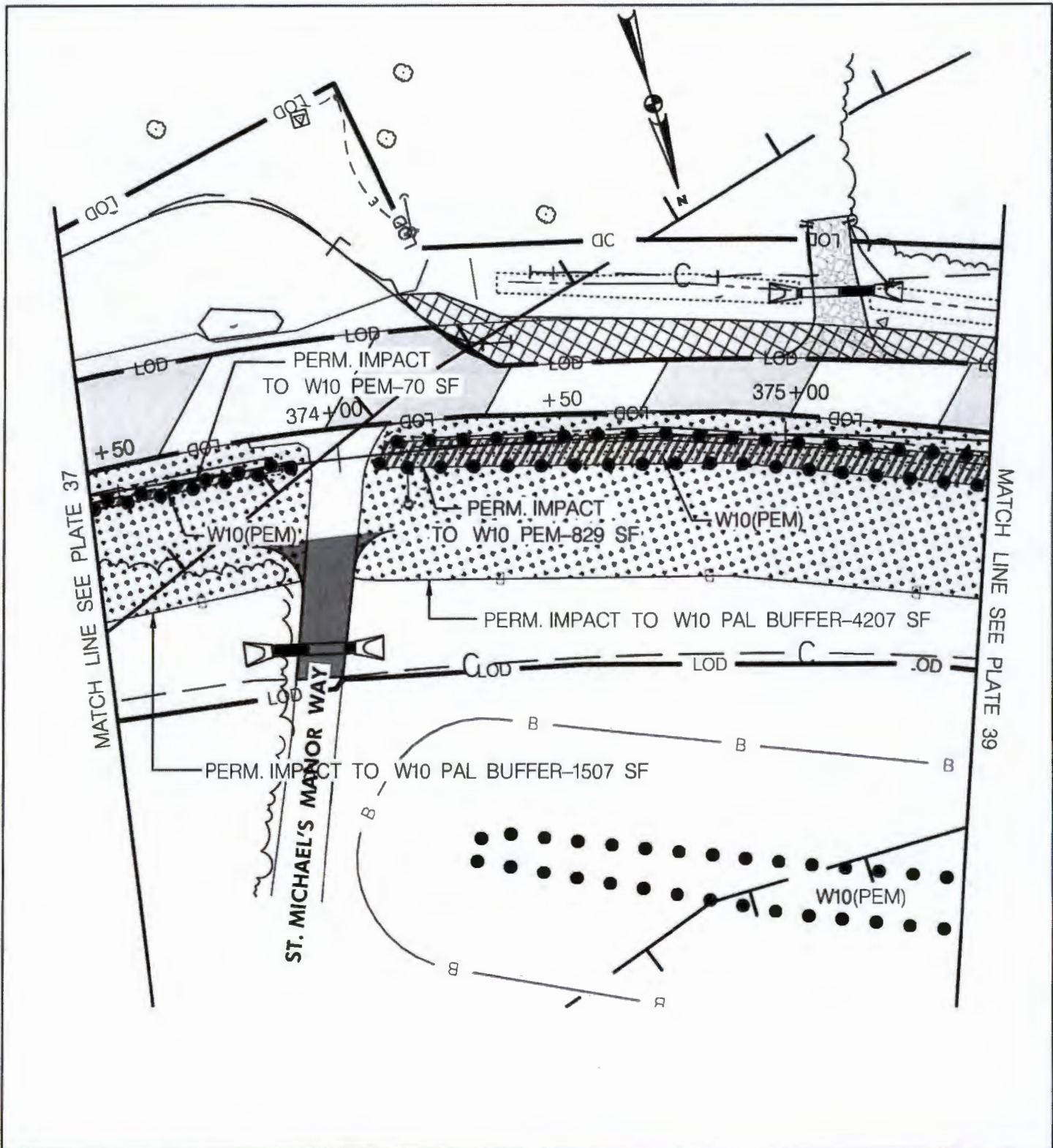


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 WETLAND PLATE NO. 37
 SHEET 46 OF 76 DATE: JANUARY 2018
 REVISION:



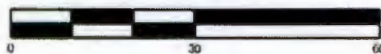
IMPACTS TO THIS PLATE

- PFO WETLAND
- PEM WETLAND
- PSS WETLAND
- E2SS WETLAND
- E2SS TIDAL WETLAND
- E2EM WETLAND
- E2EM TIDAL WETLAND
- E2FO WETLAND
- PALUSTRINE BUFFER
- ESTUARINE BUFFER
- 100-YEAR FLOODPLAIN CRITICAL AREA

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	899 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	5714 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	5216 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

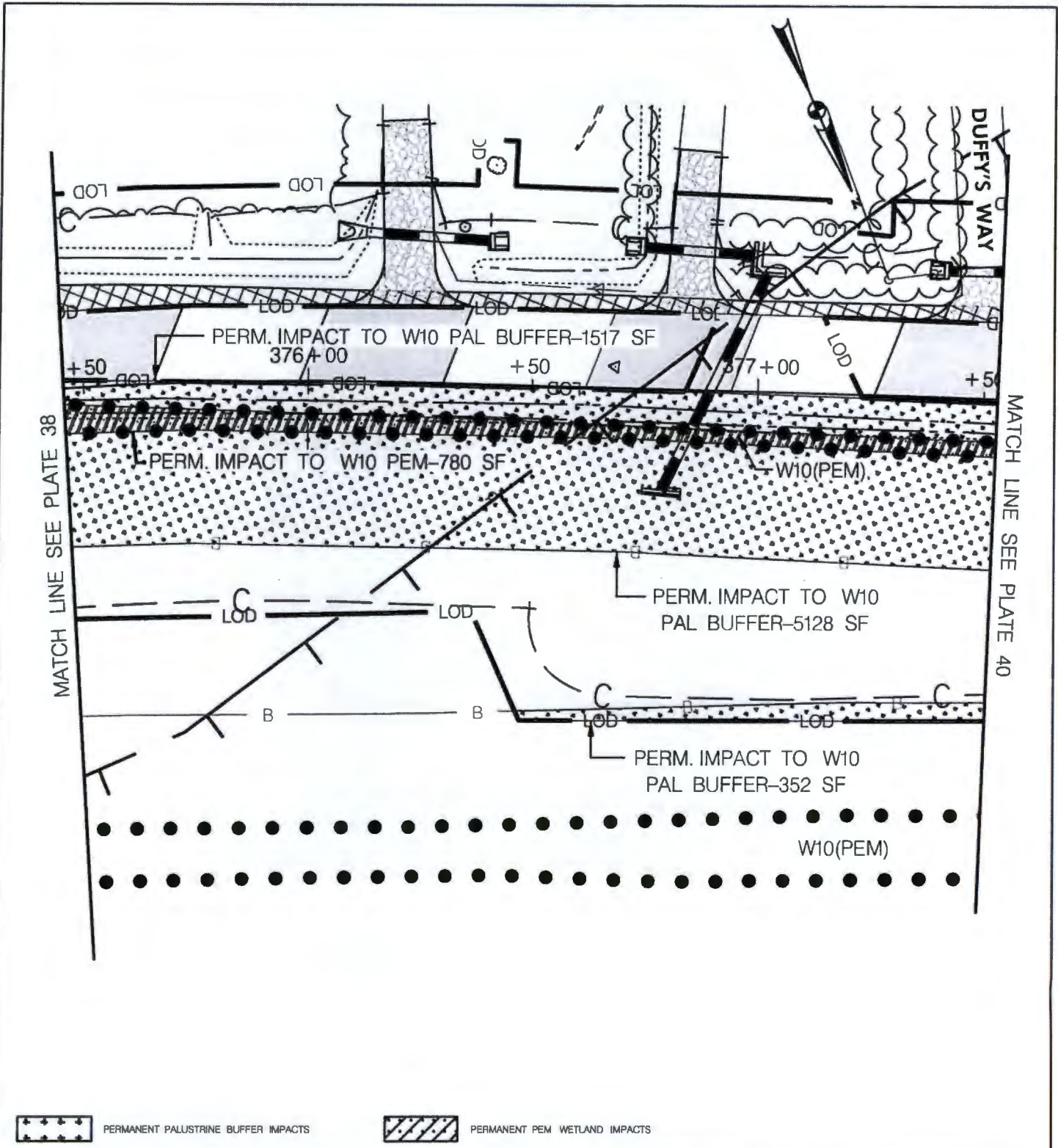


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 38
SHEET 47 OF 76 DATE: JANUARY 2018
REVISION:



PERMANENT PALUSTRINE BUFFER IMPACTS



PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	780 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	6998 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	9555 S.F.
	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

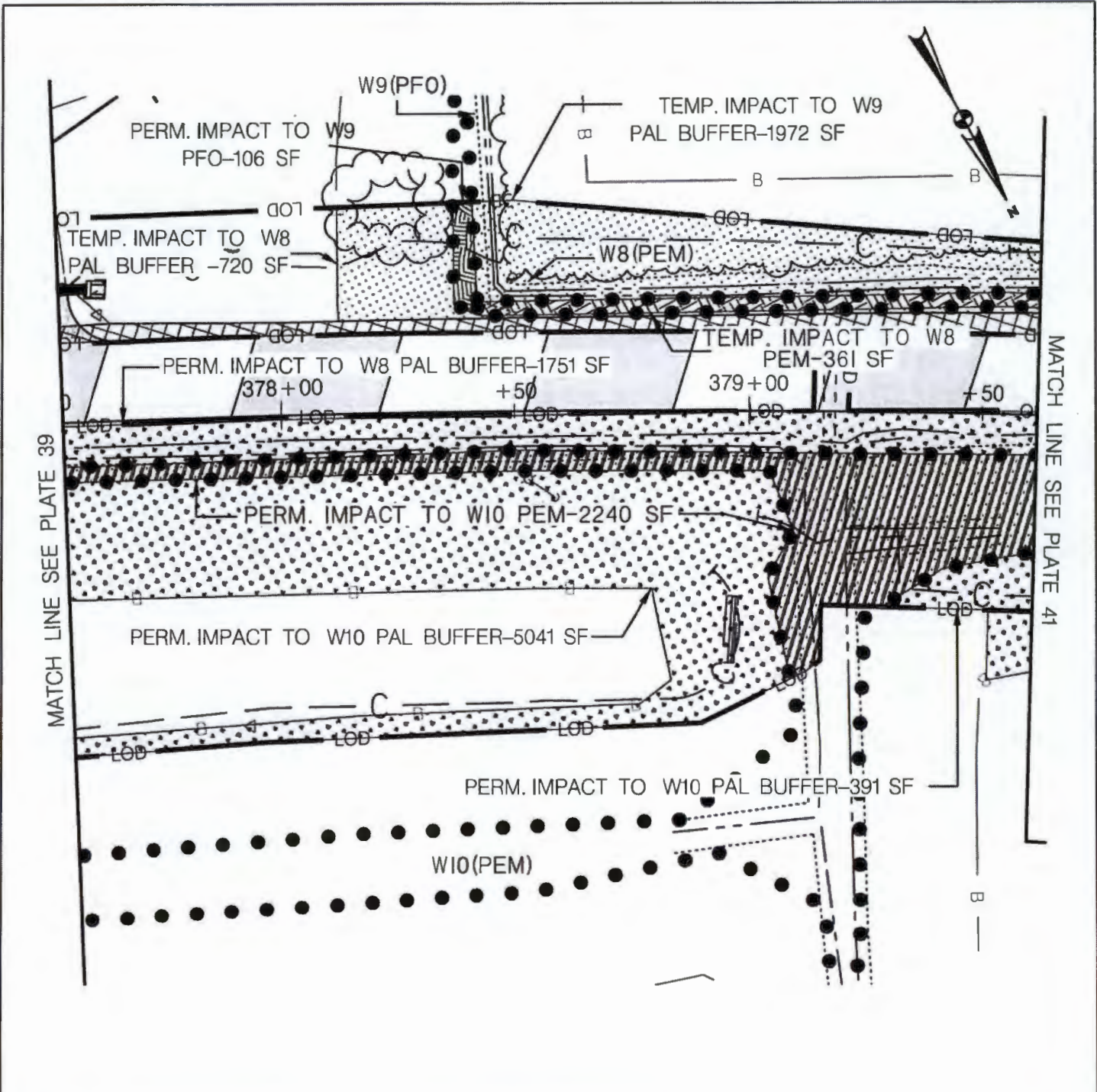


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

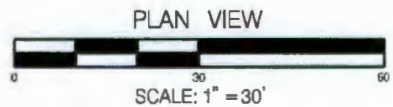
CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 39
SHEET 48 OF 76 DATE: JANUARY 2018
REVISION:



	PERMANENT PALUSTRINE BUFFER IMPACTS		PERMANENT PEM WETLAND IMPACTS
	TEMPORARY PEM WETLAND IMPACTS		PERMANENT PFO WETLAND IMPACTS
			TEMPORARY PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

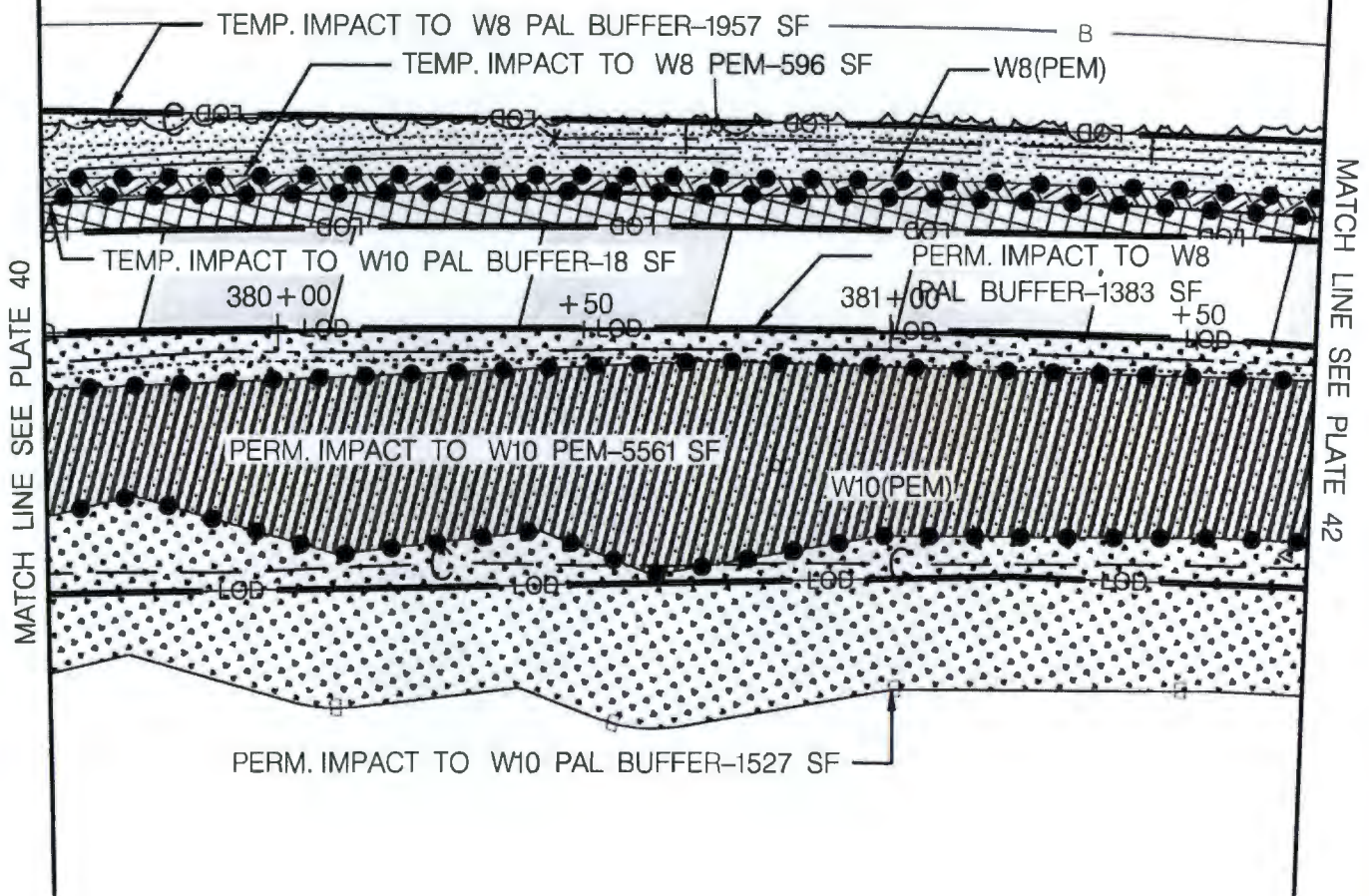
	PERMANENT	TEMPORARY
PFO WETLAND	106 S.F.	0 S.F.
PEM WETLAND	2240 S.F.	361 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	7183 S.F.	2692 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	18098 S.F.	0 S.F.



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 40
SHEET 49 OF 76 DATE: JANUARY 2018
REVISION:

PURPOSE: MD 5 WETLAND IMPACTS

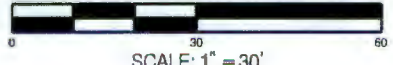


IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	5561 S.F.	596 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2S WETLAND	0 S.F.	0 S.F.
E2S TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALLISTRINE BUFFER	6599 S.F.	1875 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	12148 S.F.	0 S.F.

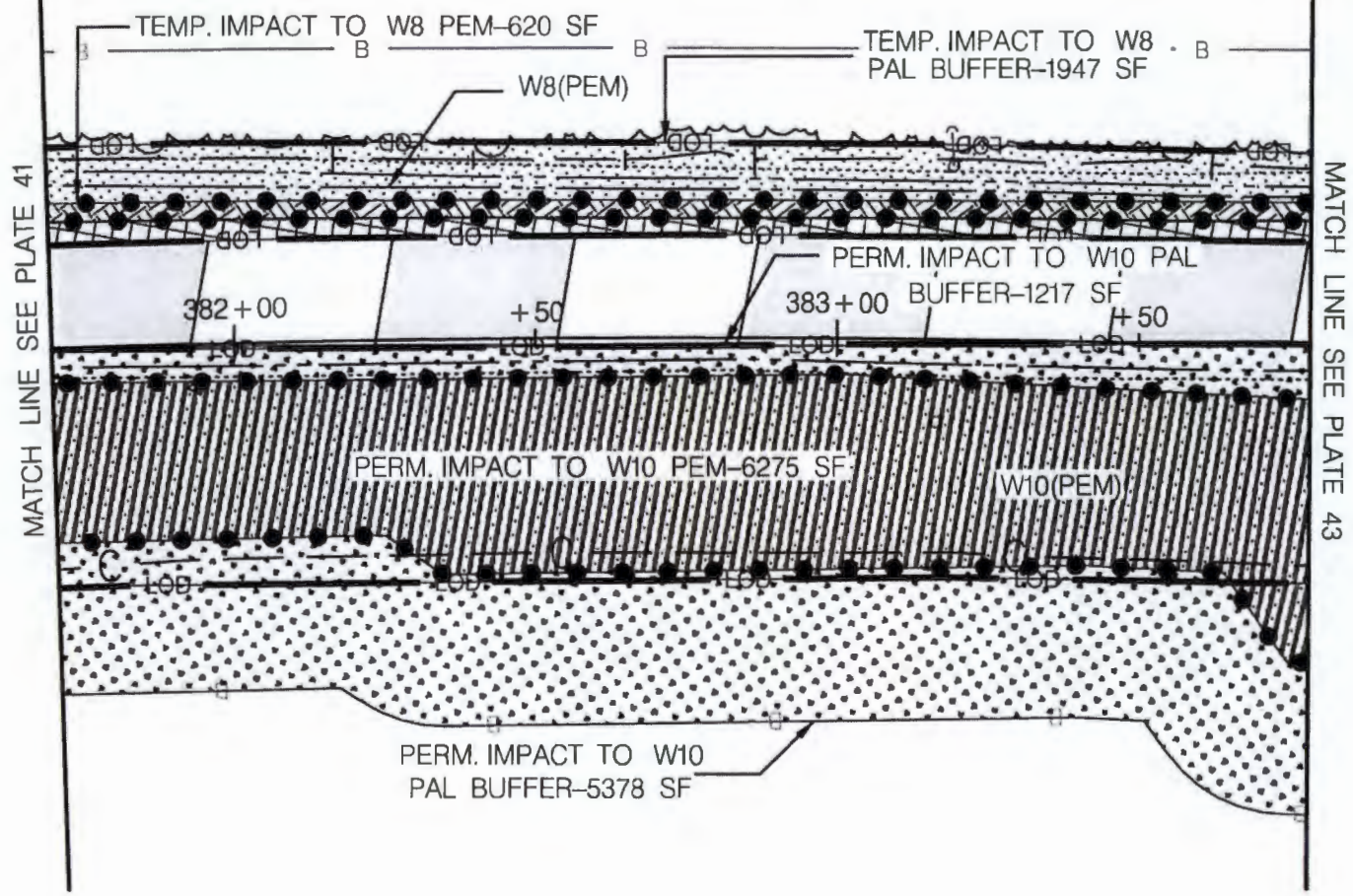
PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 41
SHEET 50 OF 76 DATE: JANUARY 2018
REVISION:

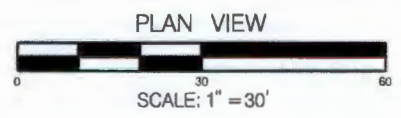


- PERMANENT PEM WETLAND IMPACTS
- PERMANENT PALUSTRINE BUFFER IMPACTS
- TEMPORARY PEM WETLAND IMPACTS
- TEMPORARY PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	6275 S.F.	620 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	5378 S.F.	1947 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	11288 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

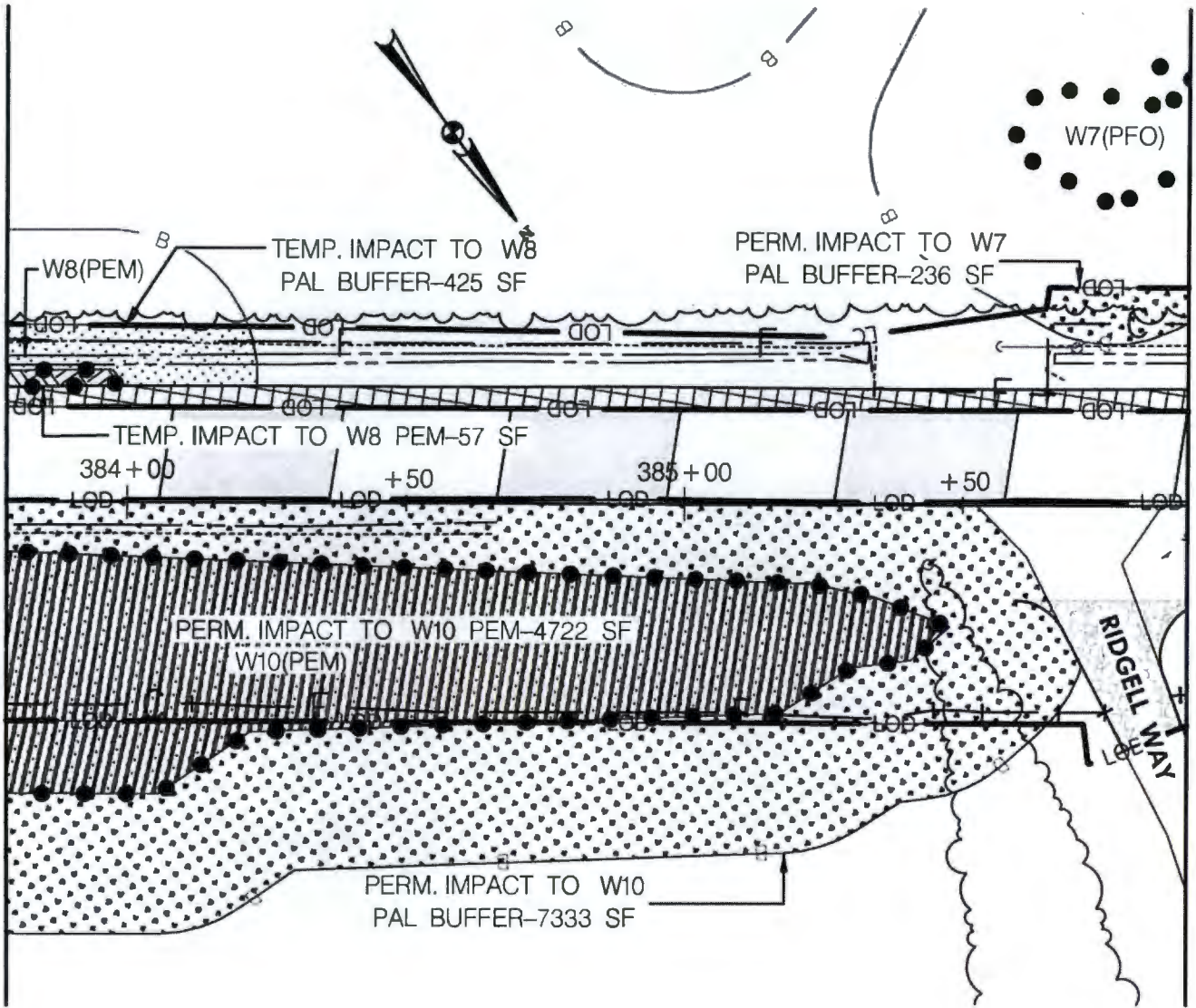


MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 42
SHEET 51 OF 76 DATE: JANUARY 2018
REVISION:

MATCH LINE SEE PLATE 42

MATCH LINE SEE PLATE 44



PERMANENT PEM WETLAND IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS



TEMPORARY PEM WETLAND IMPACTS



TEMPORARY PALUSTRINE BUFFER IMPACTS

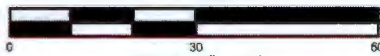
IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	4722 S.F.	57 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	7569 S.F.	425 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	11726 S.F.
	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'

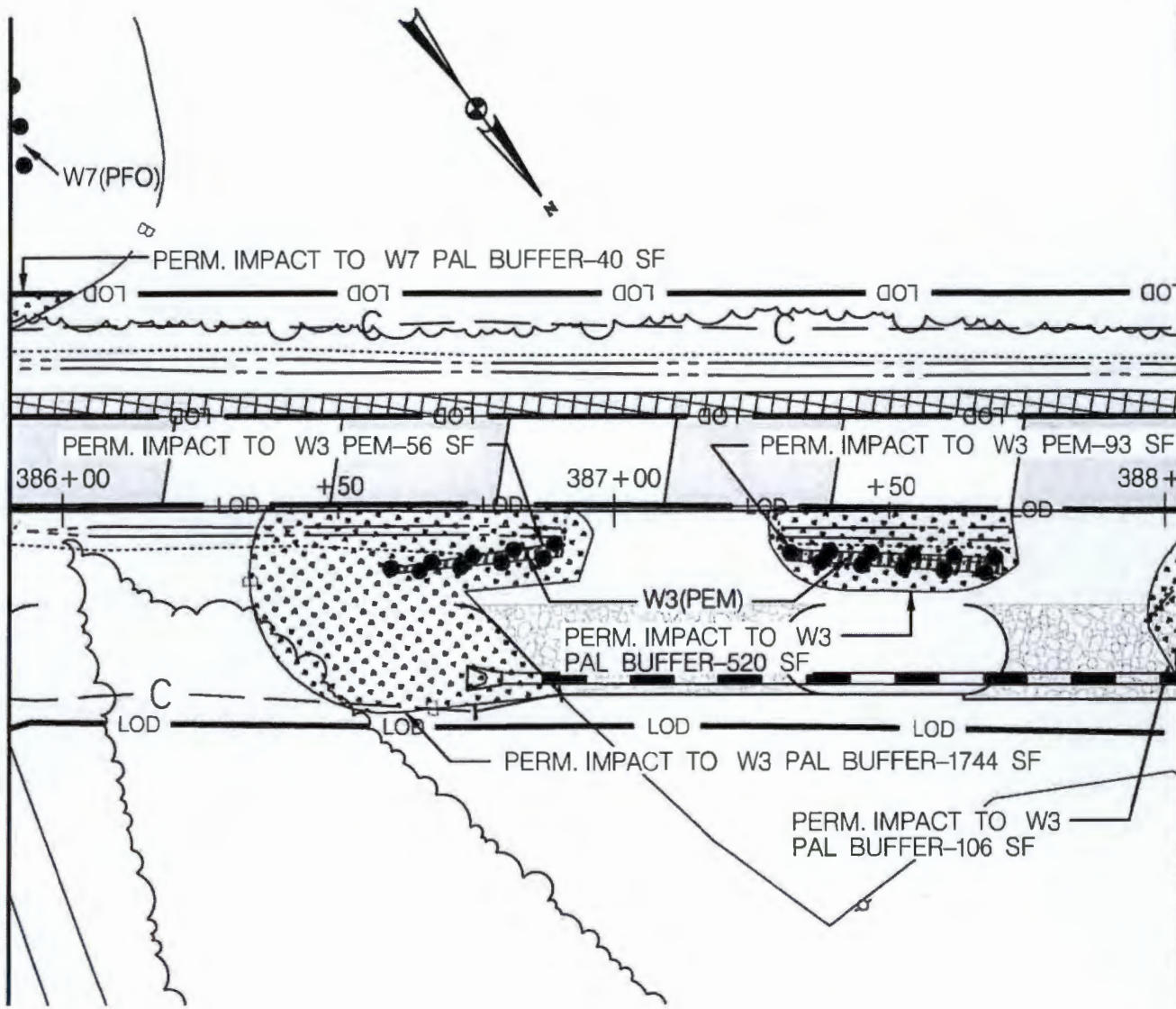


MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 43
SHEET 52 OF 76 DATE: JANUARY 2018
REVISION:

MATCH LINE SEE PLATE 43

MATCH LINE SEE PLATE 45

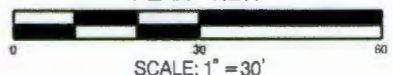


IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	149 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	2410 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	13156 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

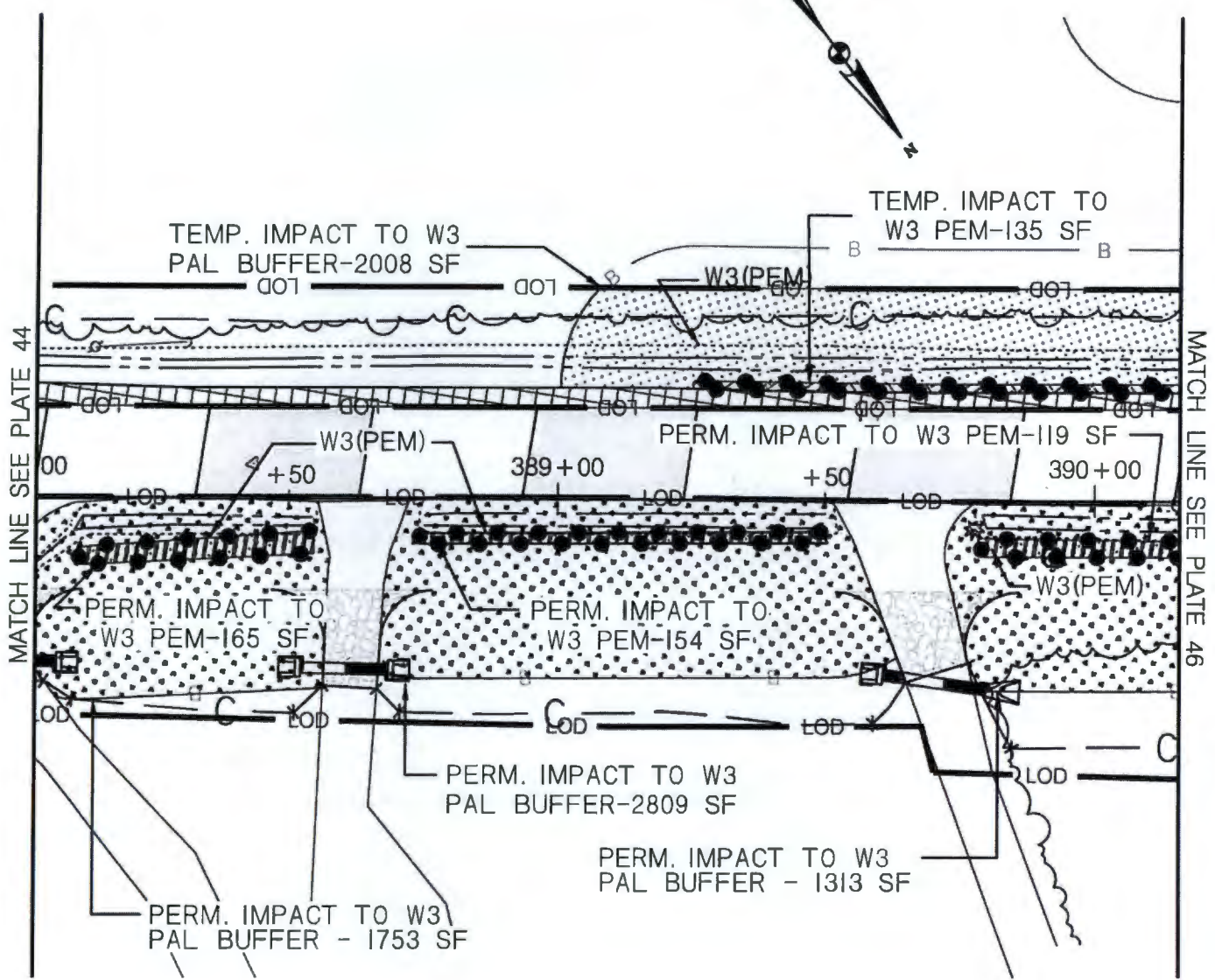


SCALE: 1" = 30'




MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 44
SHEET 52 OF 76 DATE: JANUARY 2018
REVISION:



MATCH LINE SEE PLATE 44

MATCH LINE SEE PLATE 46

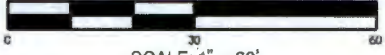
	PERMANENT PEM WETLAND IMPACTS		PERMANENT PALUSTRINE BUFFER IMPACTS
	TEMPORARY PEM WETLAND IMPACTS		TEMPORARY PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	438 S.F.	135 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2S5 TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	5875 S.F.	2008 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	14003 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'

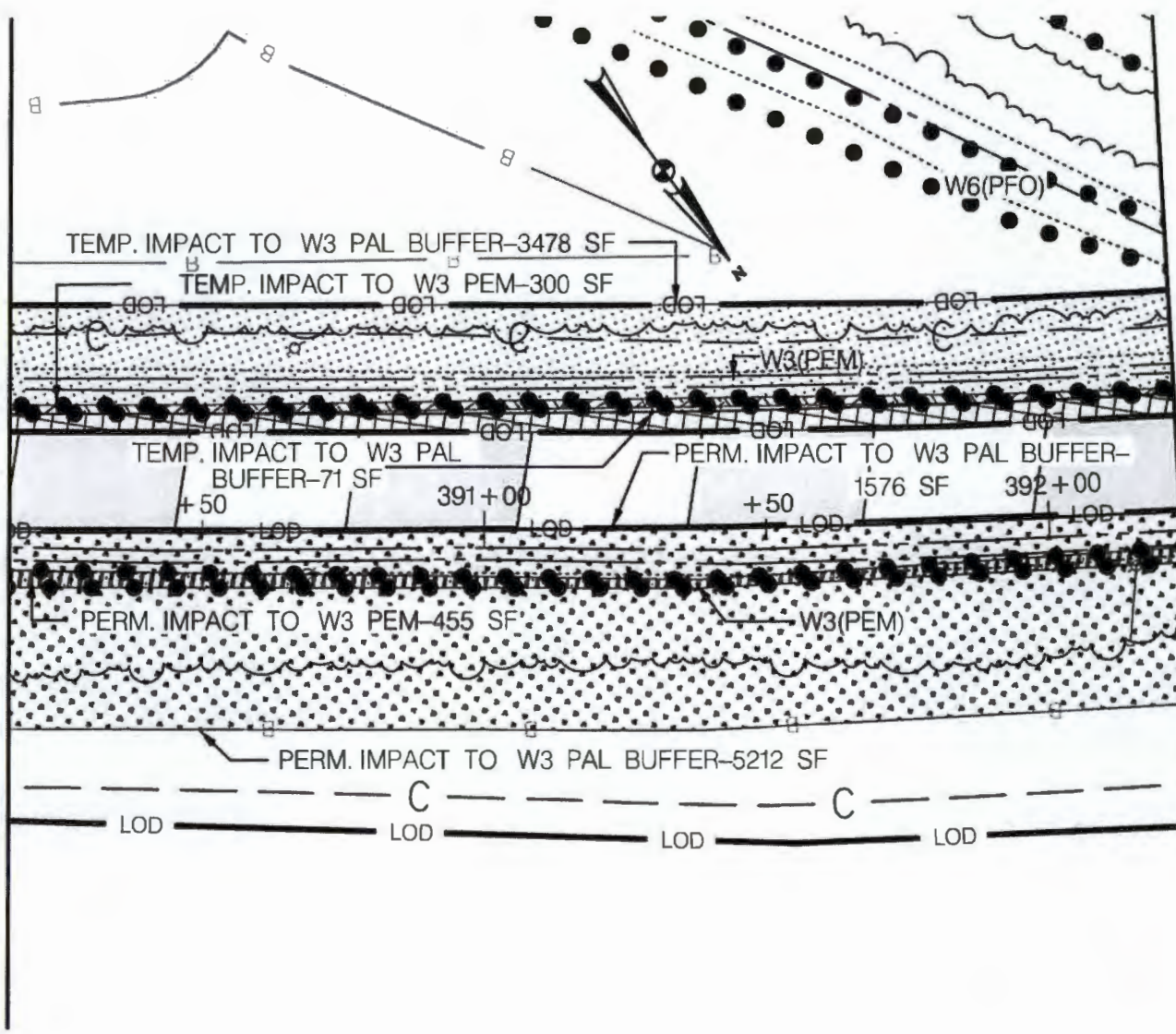





MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 45
SHEET 54 OF 76 DATE: JANUARY 2018
REVISION:

MATCH LINE SEE PLATE 45

MATCH LINE SEE PLATE 47

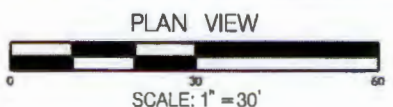


	PERMANENT PEM WETLAND IMPACTS		PERMANENT PALUSTRINE BUFFER IMPACTS
	TEMPORARY PEM WETLAND IMPACTS		TEMPORARY PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

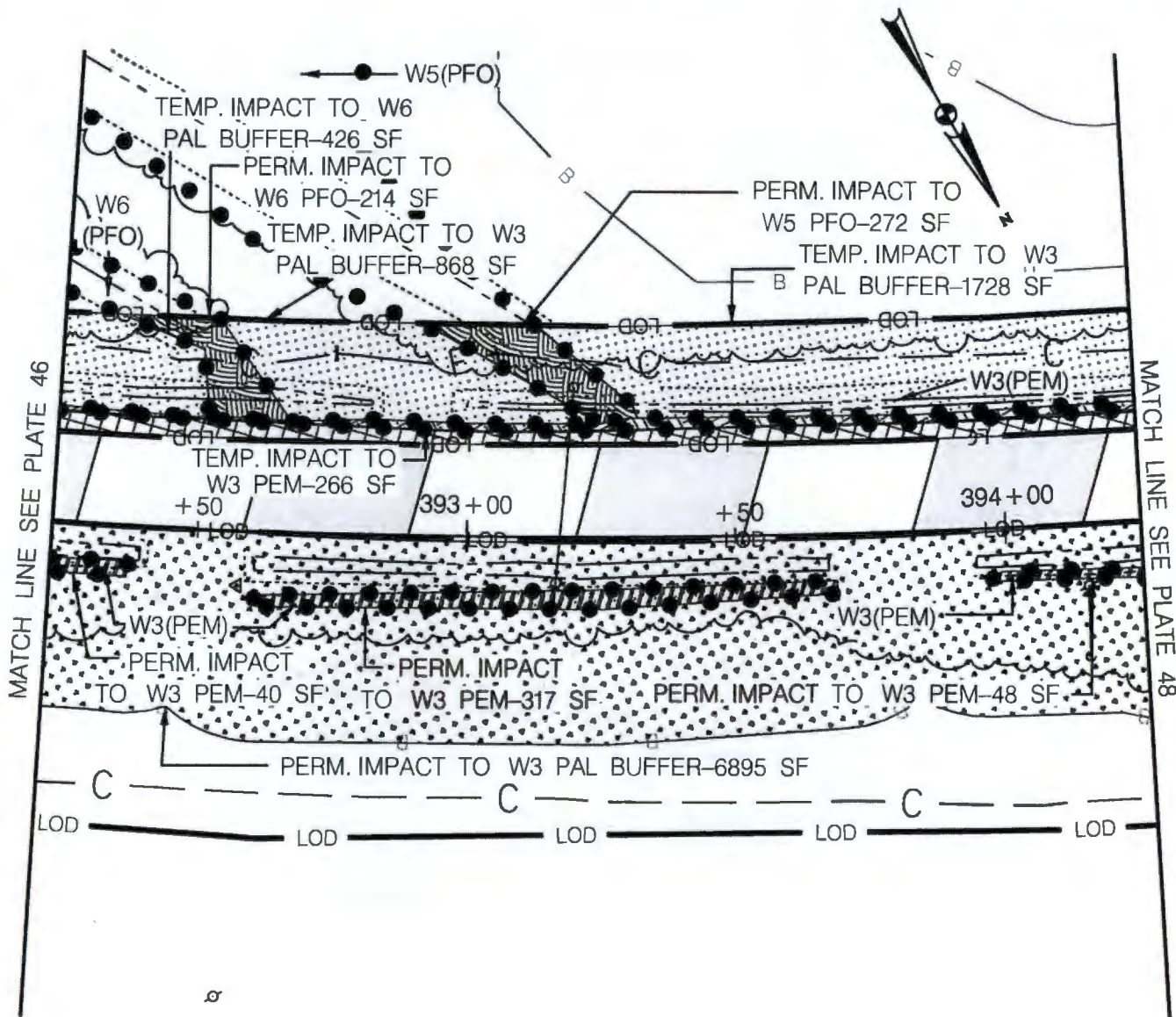
	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	455 S.F.	300 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	6788 S.F.	3549 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	15871 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS



MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 WETLAND PLATE NO. 46
 SHEET 55 OF 76 DATE: JANUARY 2018
 REVISION:



TEMPORARY PALUSTRINE BUFFER IMPACTS



TEMPORARY PEM WETLAND IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS



PERMANENT PEM WETLAND IMPACTS



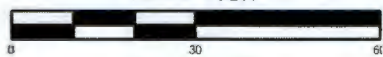
PERMANENT PFO WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	406 S.F.	0 S.F.
PEM WETLAND	405 S.F.	266 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	6895 S.F.	3022 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	15731 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

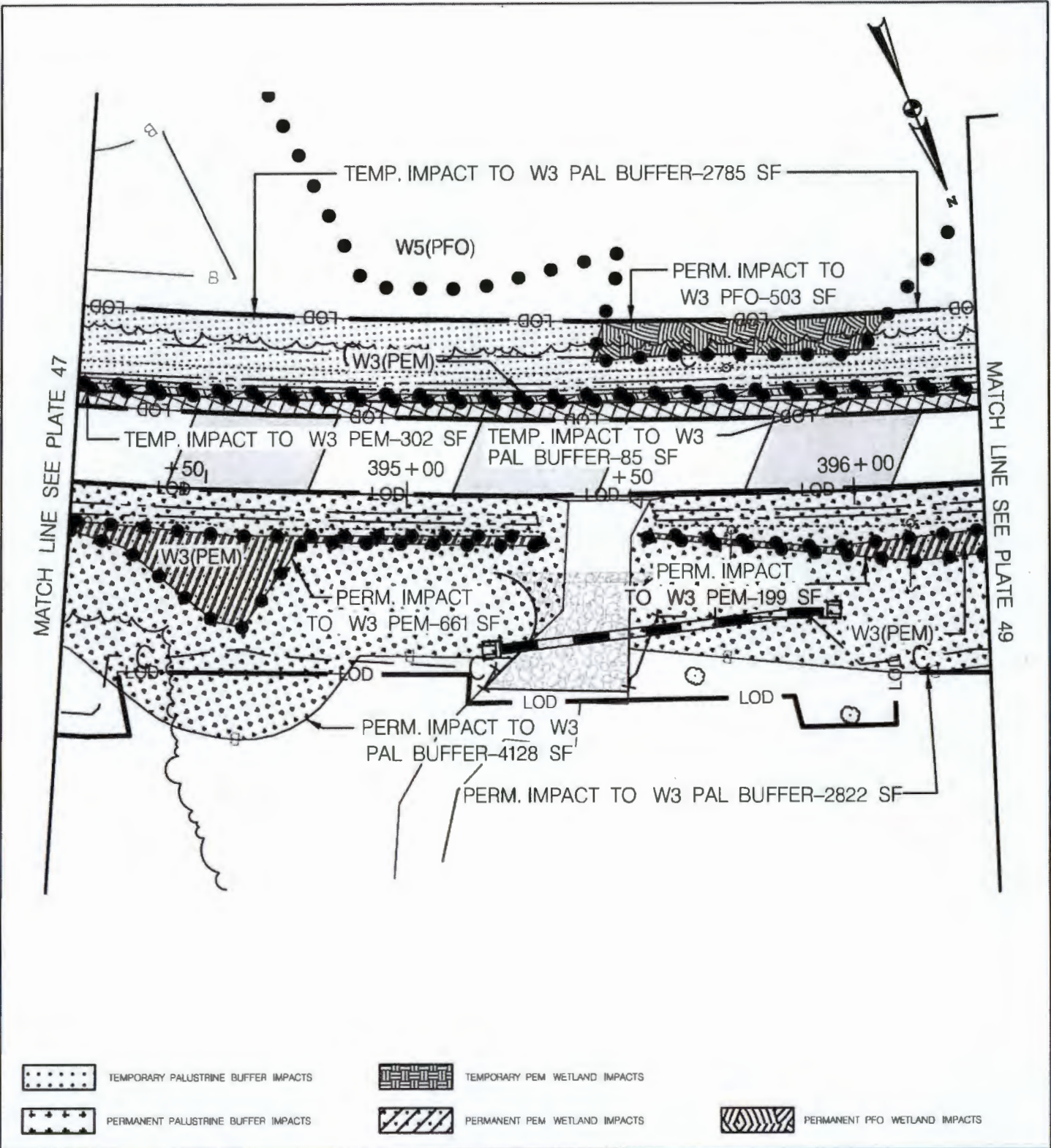


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 47
SHEET 56 OF 76 DATE: JANUARY 2018
REVISION:



- TEMPORARY PALUSTRINE BUFFER IMPACTS
- TEMPORARY PEM WETLAND IMPACTS
- PERMANENT PALUSTRINE BUFFER IMPACTS
- PERMANENT PEM WETLAND IMPACTS
- PERMANENT PFO WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	503 S.F.	0 S.F.
PEM WETLAND	860 S.F.	302 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	6950 S.F.	2870 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	13825 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

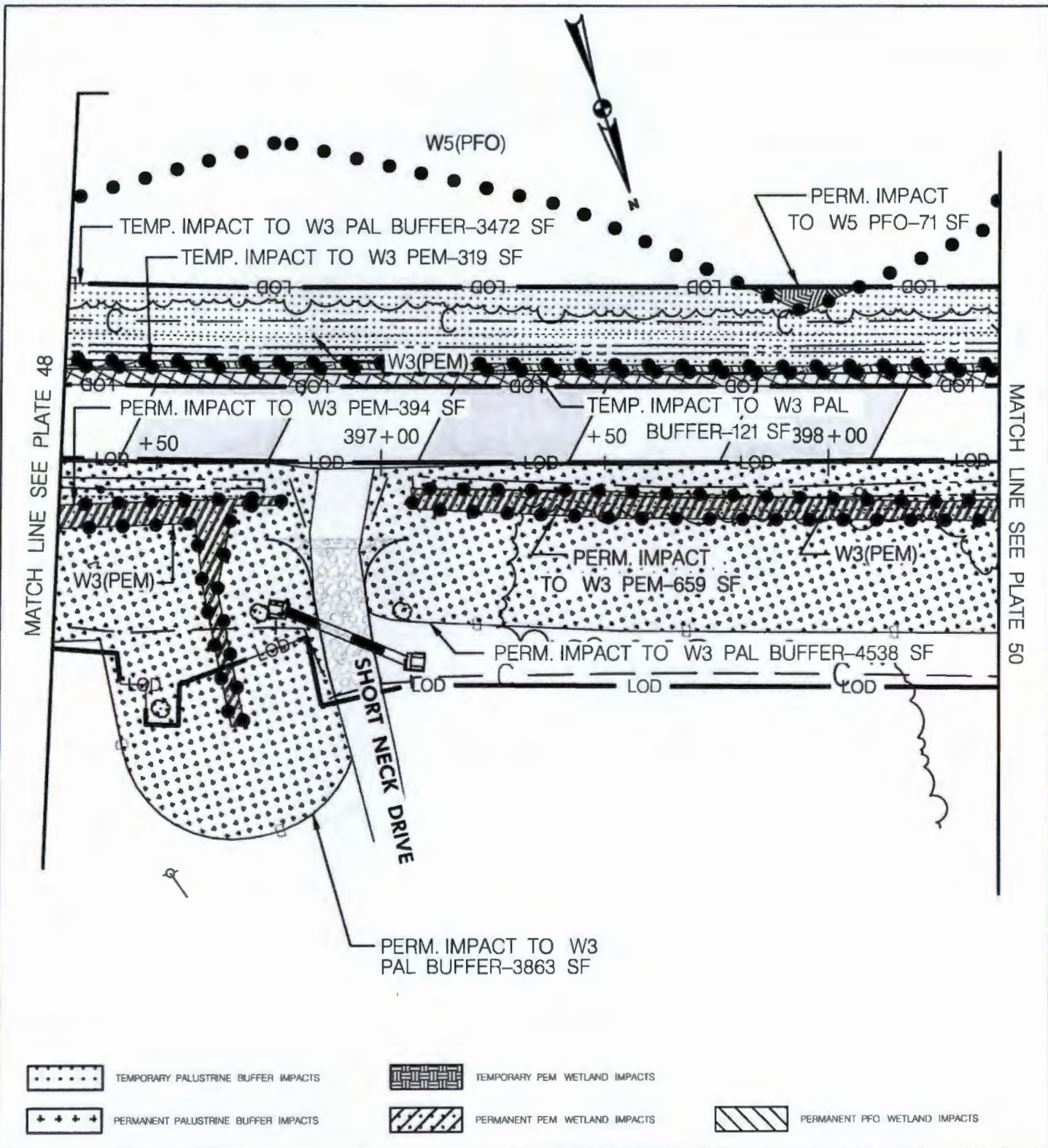
PLAN VIEW

SCALE: 1" = 30'

MDOT
MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

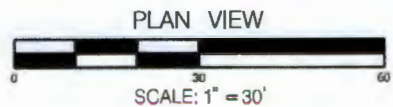
CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 WETLAND PLATE NO. 48
 SHEET 57 OF 76 DATE: JANUARY 2018
 REVISION:



- TEMPORARY PALUSTRINE BUFFER IMPACTS
- TEMPORARY PEM WETLAND IMPACTS
- PERMANENT PALUSTRINE BUFFER IMPACTS
- PERMANENT PEM WETLAND IMPACTS
- PERMANENT PFO WETLAND IMPACTS

IMPACTS TO THIS PLATE

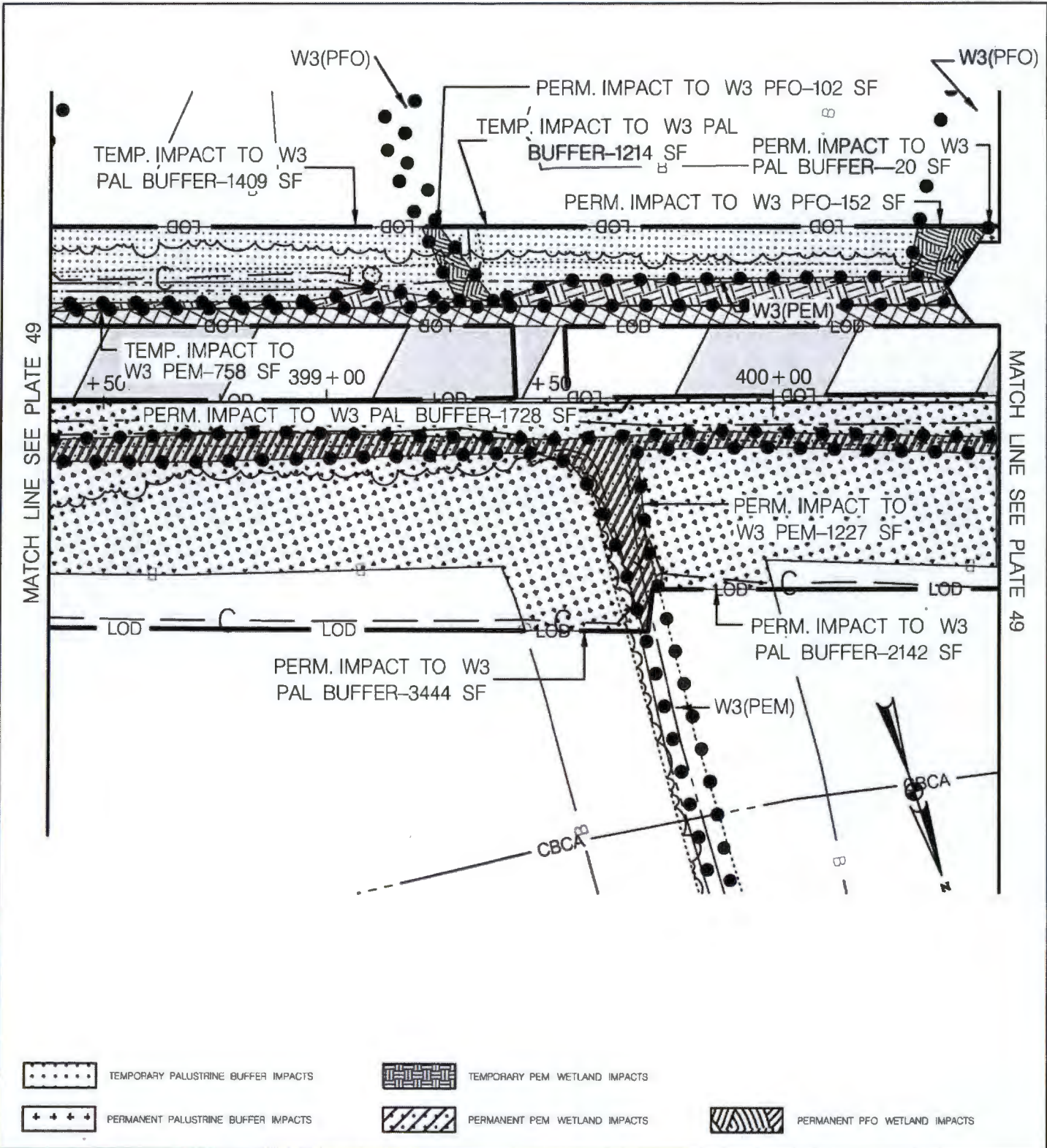
	PERMANENT	TEMPORARY
PFO WETLAND	71 S.F.	0 S.F.
PEM WETLAND	1053 S.F.	319 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALLUSTRINE BUFFER	8401 S.F.	3503 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	14908 S.F.	0 S.F.



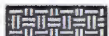
MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 WETLAND PLATE NO. 49
 SHEET 58 OF 76 DATE: JANUARY 2018
 REVISION:

PURPOSE: MD 5 WETLAND IMPACTS



TEMPORARY PALUSTRINE BUFFER IMPACTS



TEMPORARY PEM WETLAND IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS



PERMANENT PEM WETLAND IMPACTS



PERMANENT PFO WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	254 S.F.	0 S.F.
PEM WETLAND	1227 S.F.	758 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	7329 S.F.	2623 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	14944 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

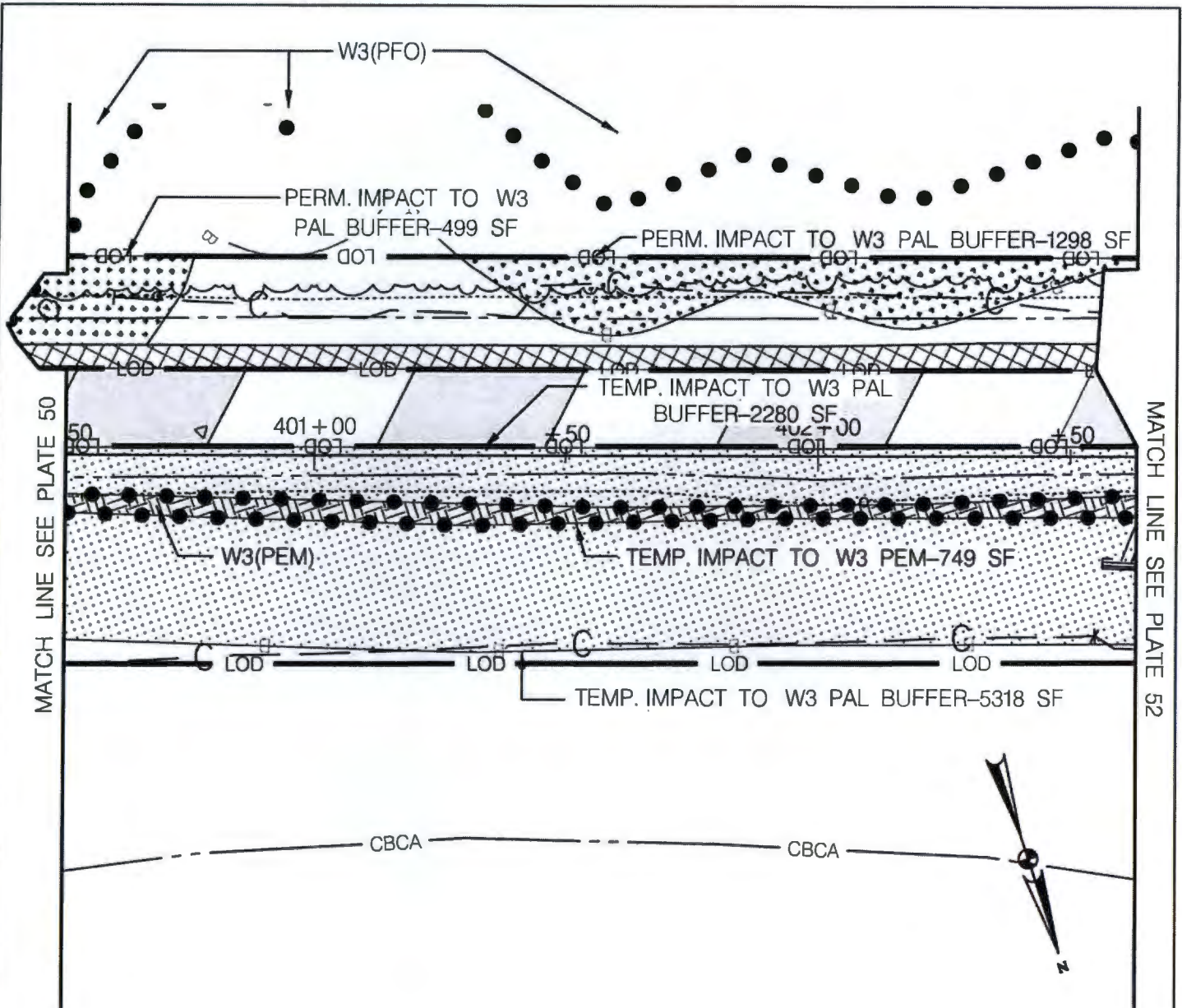


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 50
SHEET 59 OF 76 DATE: JANUARY 2018
REVISION:



TEMPORARY PEM WETLAND IMPACTS



TEMPORARY PALUSTRINE BUFFER IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	0 S.F.	749 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	1797 S.F.	7598 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	13853 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

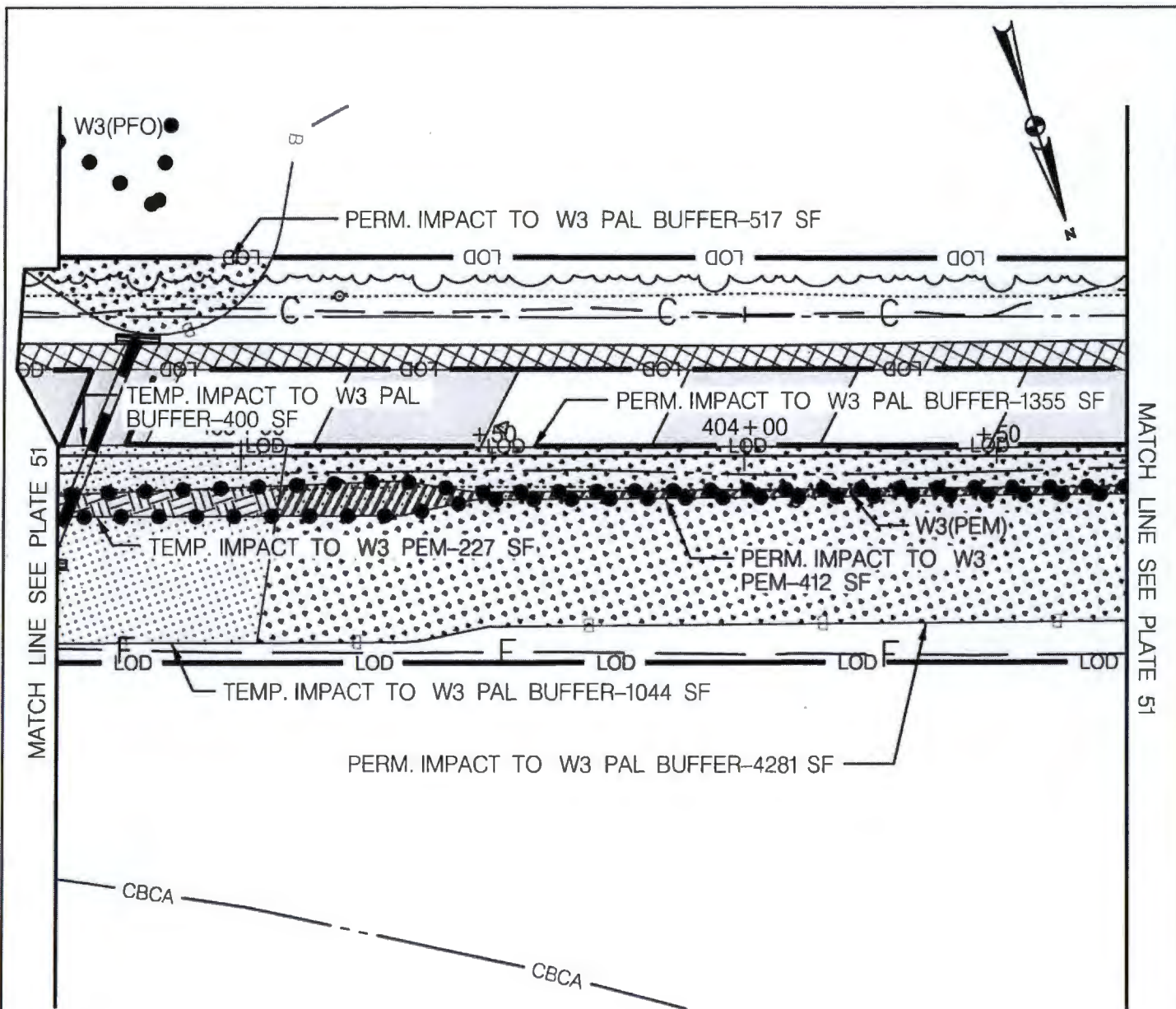


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 51
SHEET 60 OF 76 DATE: JANUARY 2018
REVISION:



MATCH LINE SEE PLATE 51

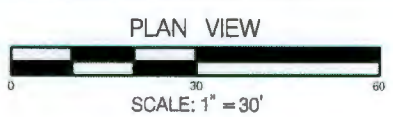
MATCH LINE SEE PLATE 51

- PERMANENT PEM WETLAND IMPACTS
- TEMPORARY PEM WETLAND IMPACTS
- PERMANENT PALUSTRINE BUFFER IMPACTS
- TEMPORARY PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

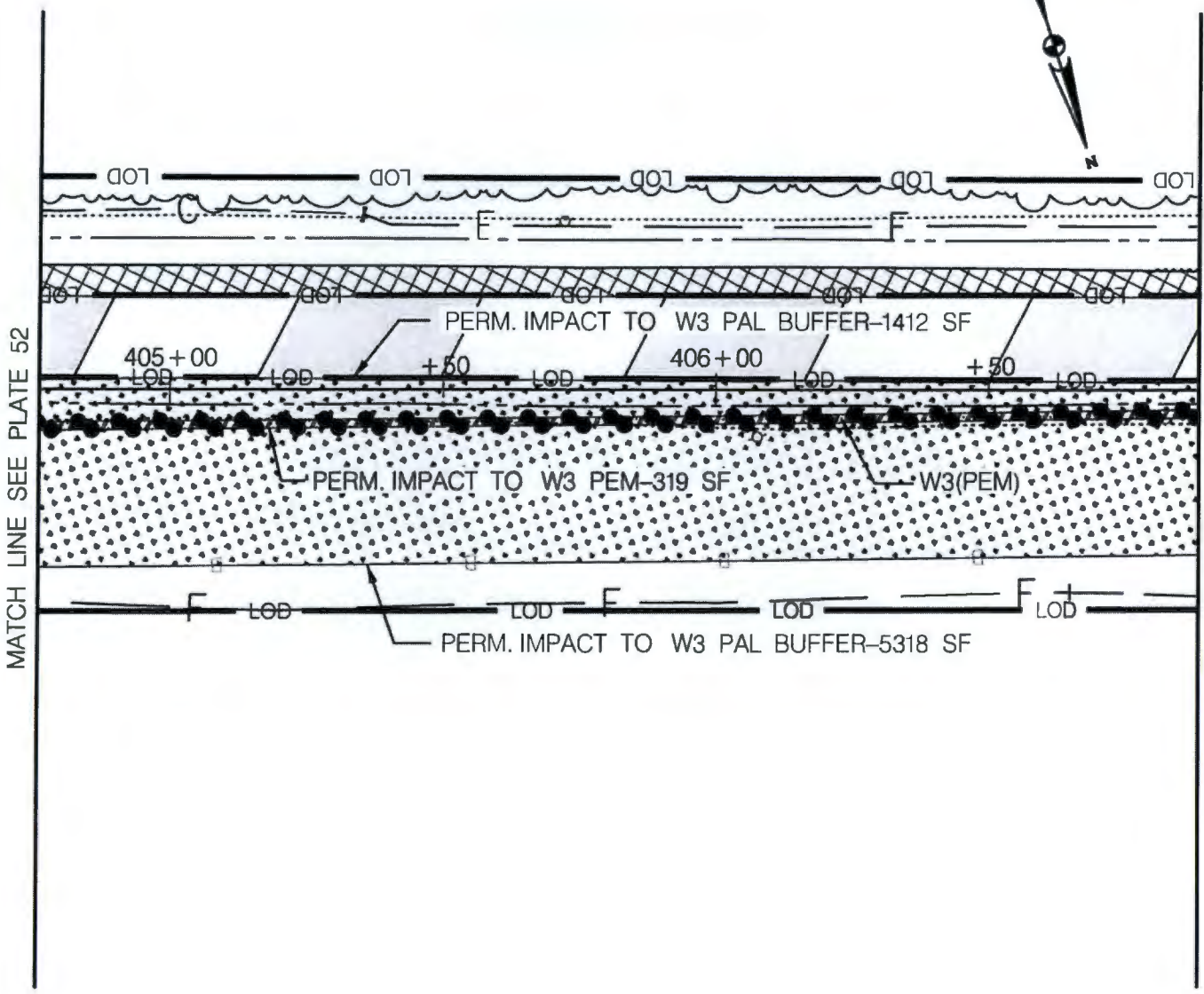
	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	412 S.F.	227 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	6153 S.F.	1444 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	14105 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 52
SHEET 61 OF 76 DATE: JANUARY 2018
REVISION:



MATCH LINE SEE PLATE 52

MATCH LINE SEE PLATE 54



PERMANENT PALUSTRINE BUFFER IMPACTS



PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	319 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	6730 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	13546 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

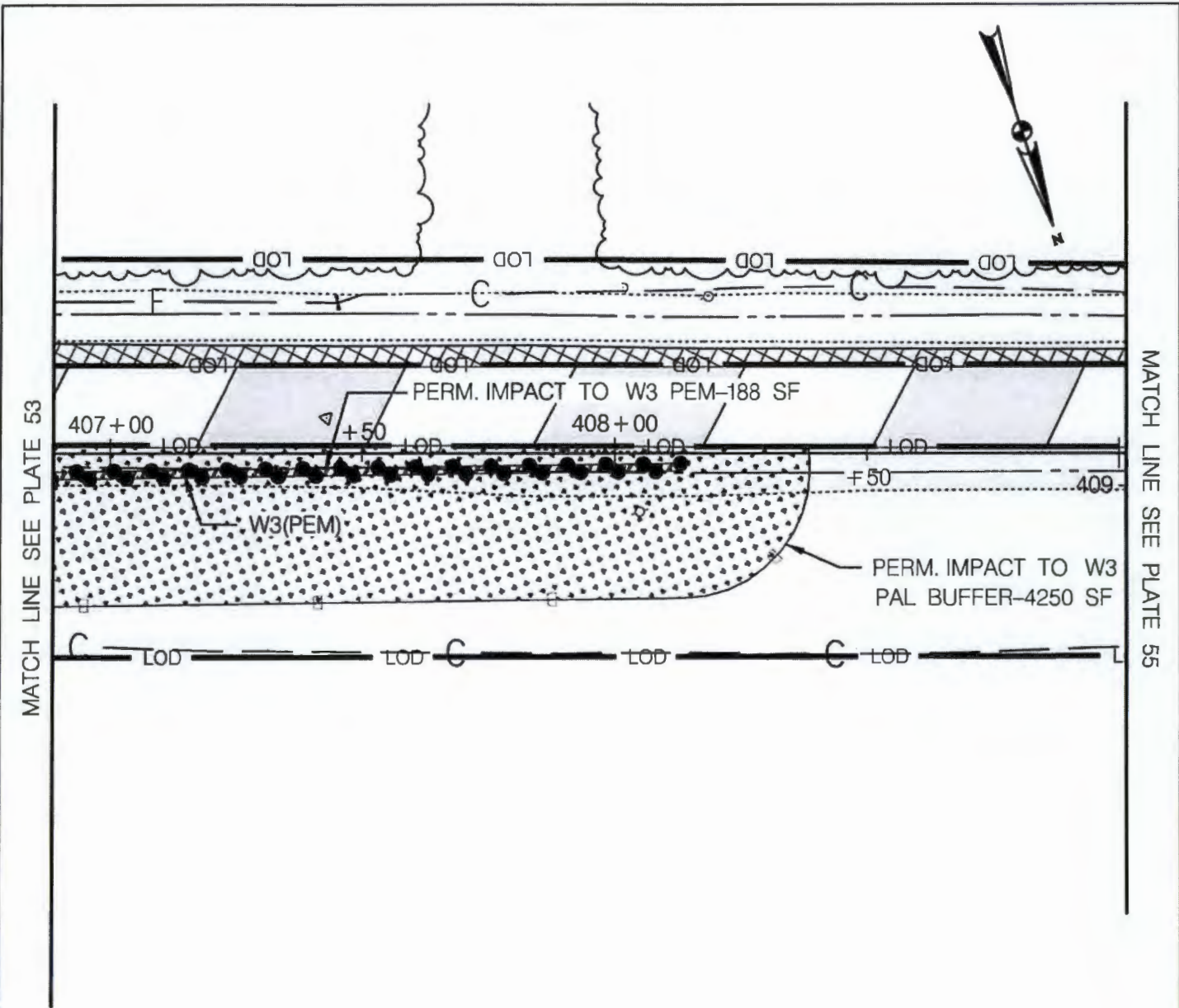


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 53
SHEET 62 OF 76 DATE: JANUARY 2018
REVISION:



MATCH LINE SEE PLATE 53

MATCH LINE SEE PLATE 55



PERMANENT PALUSTRINE BUFFER IMPACTS



PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS PLATE

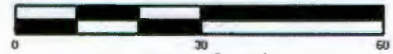
- PFO WETLAND
- PEM WETLAND
- PSS WETLAND
- E2SS WETLAND
- E2SS TIDAL WETLAND
- E2EM WETLAND
- E2EM TIDAL WETLAND
- E2FO WETLAND
- PALUSTRINE BUFFER
- ESTUARINE BUFFER

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	188 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	4250 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.

100-YEAR FLOODPLAIN CRITICAL AREA	13176 S.F.
	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

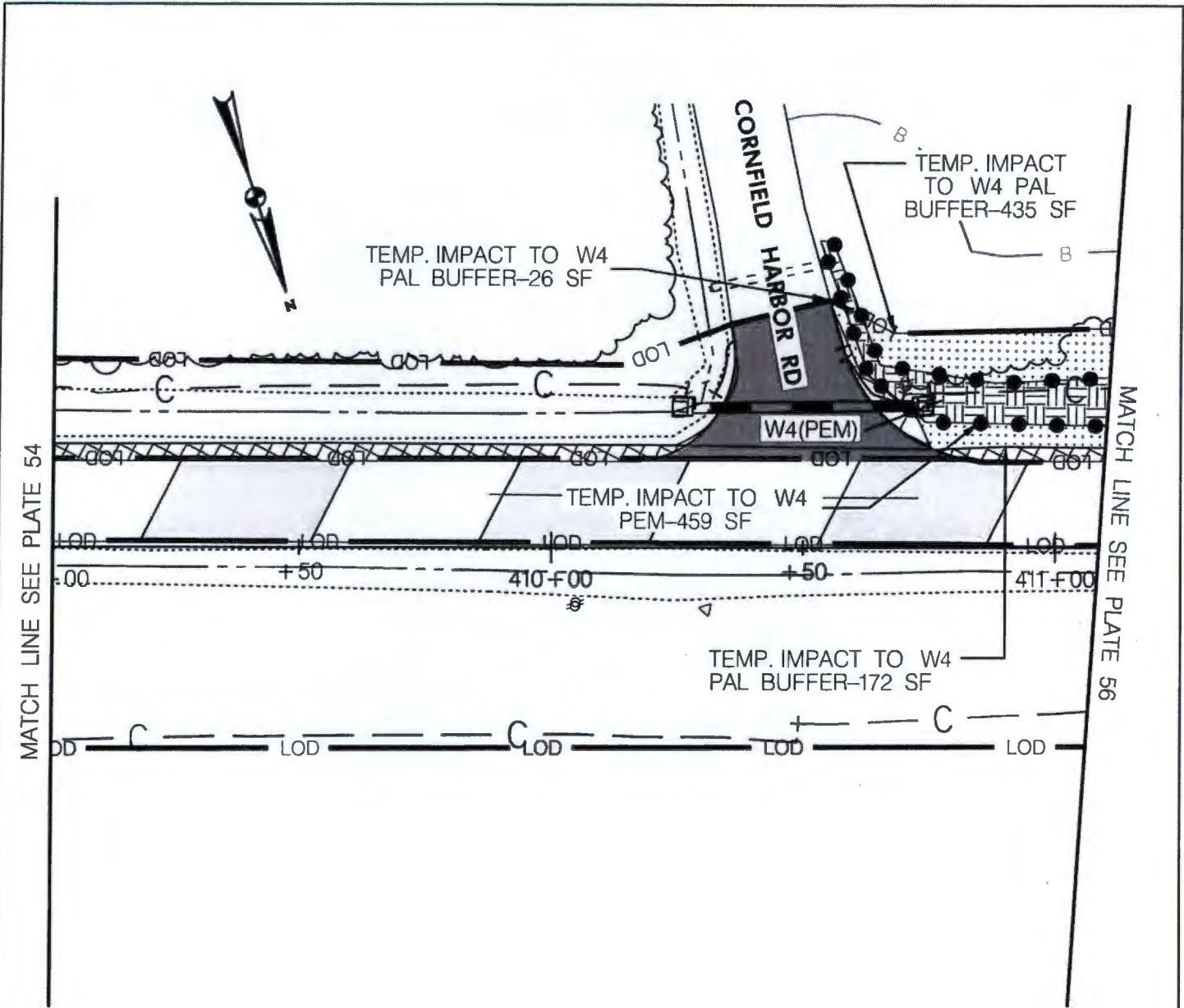


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 54
SHEET 63 OF 76 DATE: JANUARY 2018
REVISION:



TEMPORARY PEM WETLAND IMPACTS



TEMPORARY PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	0 S.F.	459 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2S5 WETLAND	0 S.F.	0 S.F.
E2S5 TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	0 S.F.	633 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	12989 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

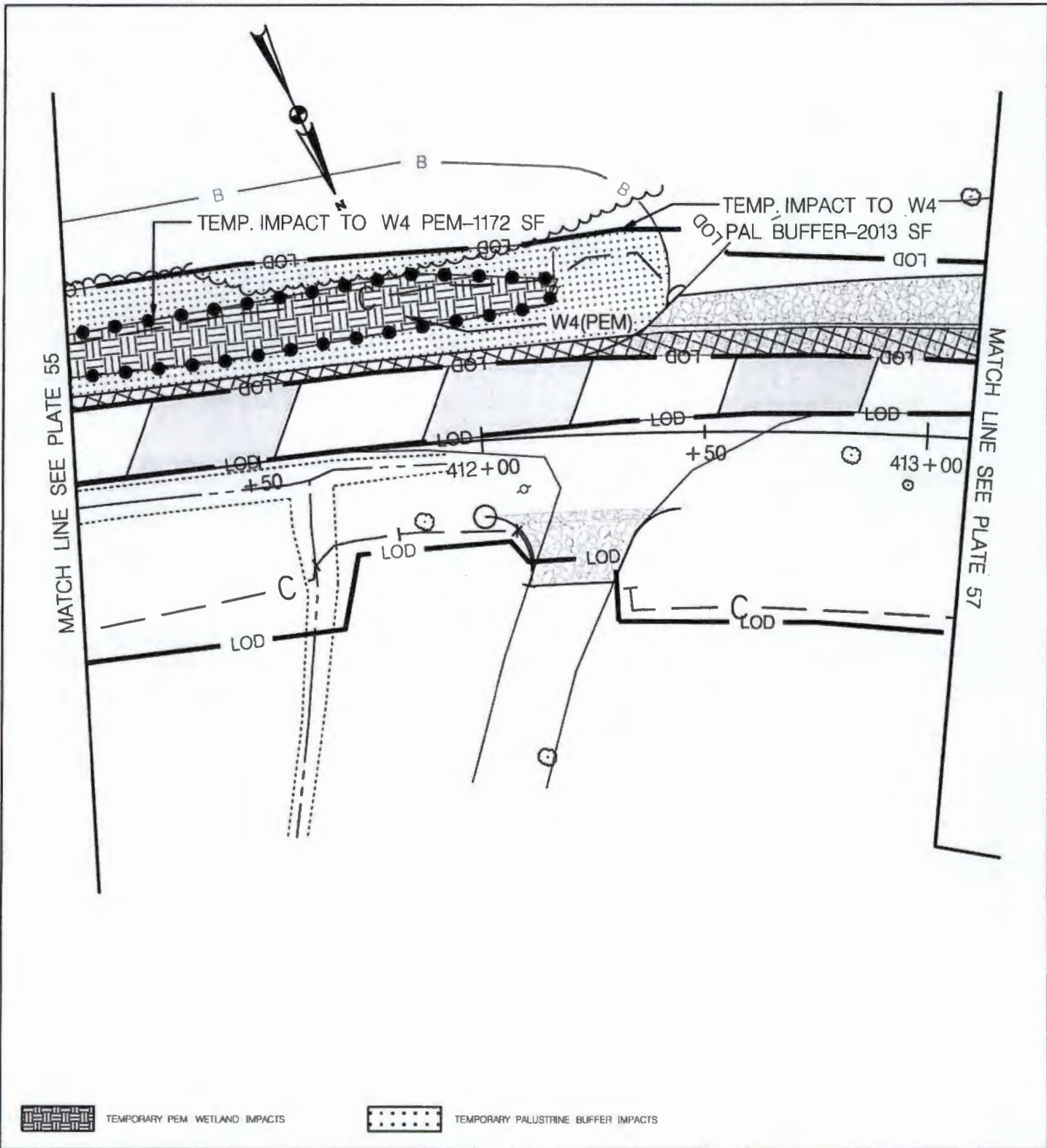


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 55
SHEET 64 OF 76 DATE: JANUARY 2018
REVISION:



TEMPORARY PEM WETLAND IMPACTS



TEMPORARY PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

PFO WETLAND
 PEM WETLAND
 PSS WETLAND
 E2SS WETLAND
 E2SS TIDAL WETLAND
 E2EM WETLAND
 E2EM TIDAL WETLAND
 E2FO WETLAND
 PALUSTRINE BUFFER
 ESTUARINE BUFFER

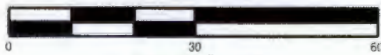
	PERMANENT	TEMPORARY
PFO WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	1172 SF
PSS WETLAND	0 SF	0 SF
E2SS WETLAND	0 SF	0 SF
E2SS TIDAL WETLAND	0 SF	0 SF
E2EM WETLAND	0 SF	0 SF
E2EM TIDAL WETLAND	0 SF	0 SF
E2FO WETLAND	0 SF	0 SF
PALUSTRINE BUFFER	0 SF	2013 SF
ESTUARINE BUFFER	0 SF	0 SF

100-YEAR FLOODPLAIN
 CRITICAL AREA

12815	SF
0	SF

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

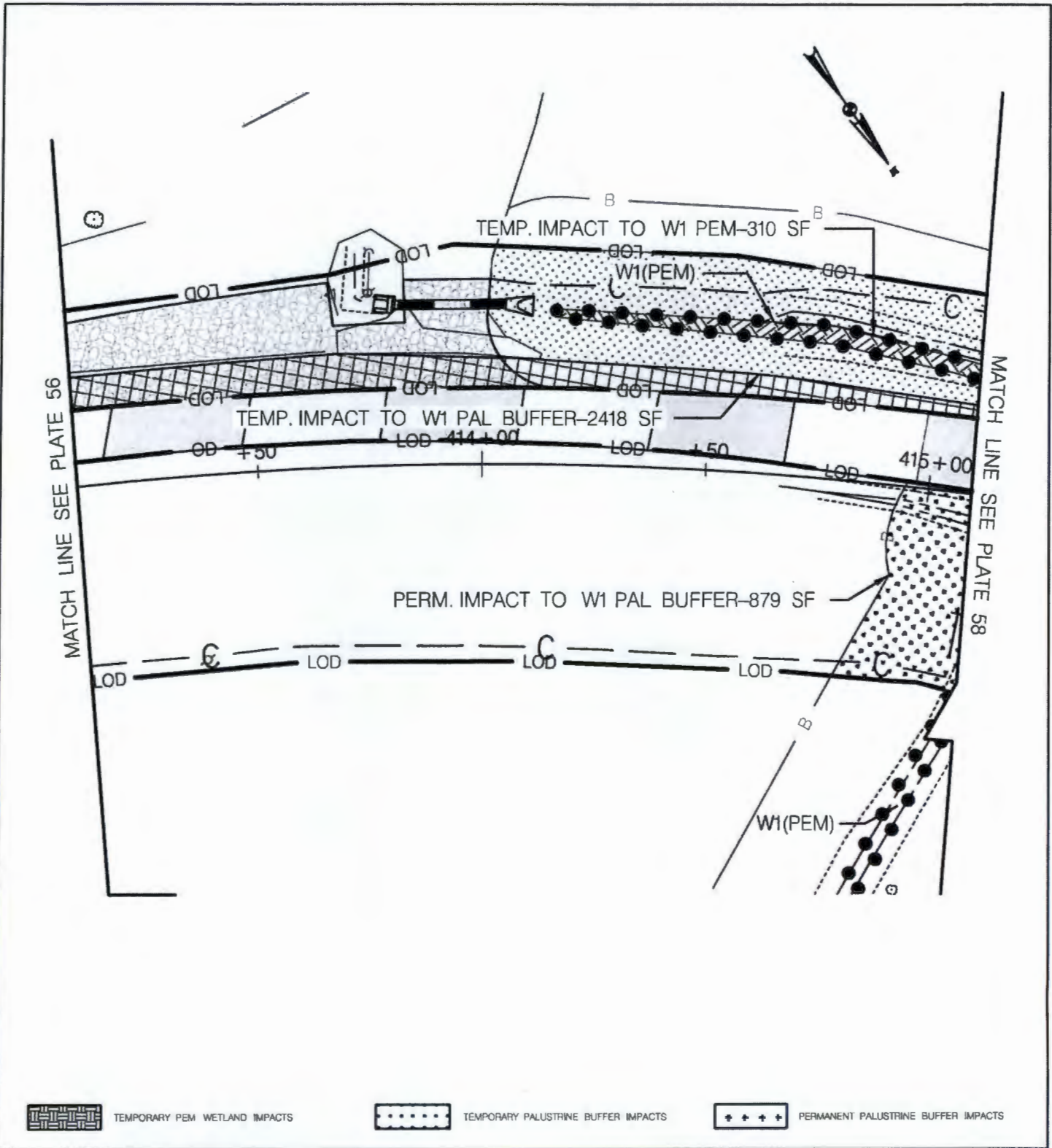


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDOT SHA
 WETLAND PLATE NO. 56
 SHEET 65 OF 76 DATE: JANUARY 2018
 REVISION:



TEMPORARY PEM WETLAND IMPACTS



TEMPORARY PALUSTRINE BUFFER IMPACTS



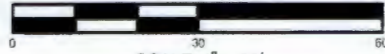
PERMANENT PALUSTRINE BUFFER IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	0 S.F.	310 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	879 S.F.	2418 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	15175 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

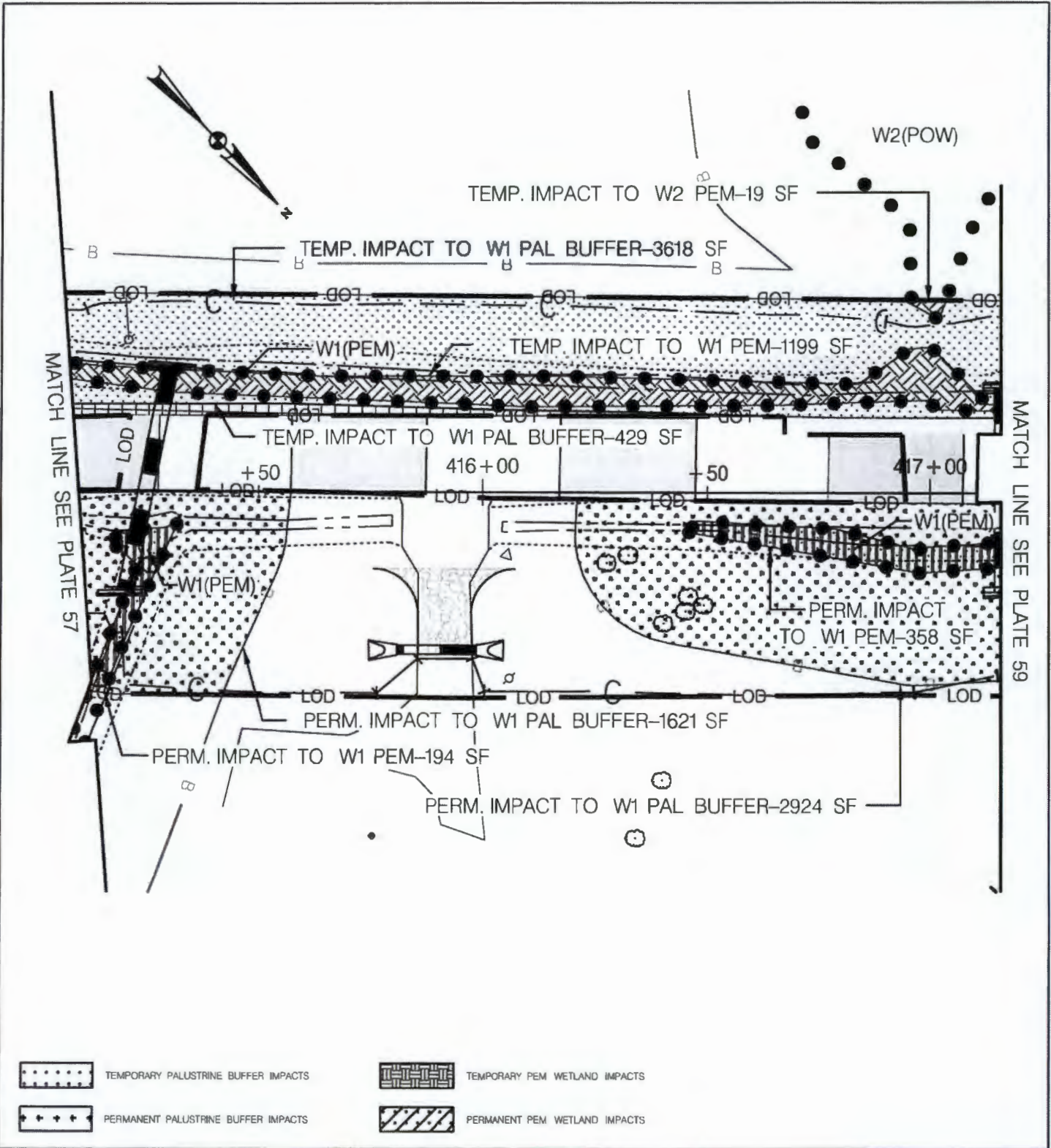


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 57
SHEET 66 OF 76 DATE: JANUARY 2018
REVISION:



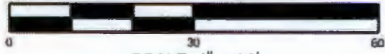
- TEMPORARY PALUSTRINE BUFFER IMPACTS
- TEMPORARY PEM WETLAND IMPACTS
- PERMANENT PALUSTRINE BUFFER IMPACTS
- PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	552 S.F.	1218 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	4545 S.F.	4047 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	15272 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 58
SHEET 67 OF 76 DATE: JANUARY 2018
REVISION:

TEMP. IMPACT TO W1 PAL BUFFER-4806 SF

TEMP. IMPACT TO W1 PEM-377 SF

TEMP. IMPACT TO W1 PAL
+ 50 BUFFER-813 SF 418 + 00

PERM. IMPACT TO W1 PAL BUFFER-1445 SF

PERM. IMPACT TO
W1 PEM-1346 SF

PERM. IMPACT TO W1
PAL BUFFER-5320 SF

W1(PEM)

W1(PEM)

MATCH LINE SEE PLATE 58

MATCH LINE SEE PLATE 60



TEMPORARY PALUSTRINE BUFFER IMPACTS



TEMPORARY PEM WETLAND IMPACTS



PERMANENT PALUSTRINE BUFFER IMPACTS



PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS DATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	1346 S.F.	377 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	6765 S.F.	5619 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	12340 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW



SCALE: 1" = 30'

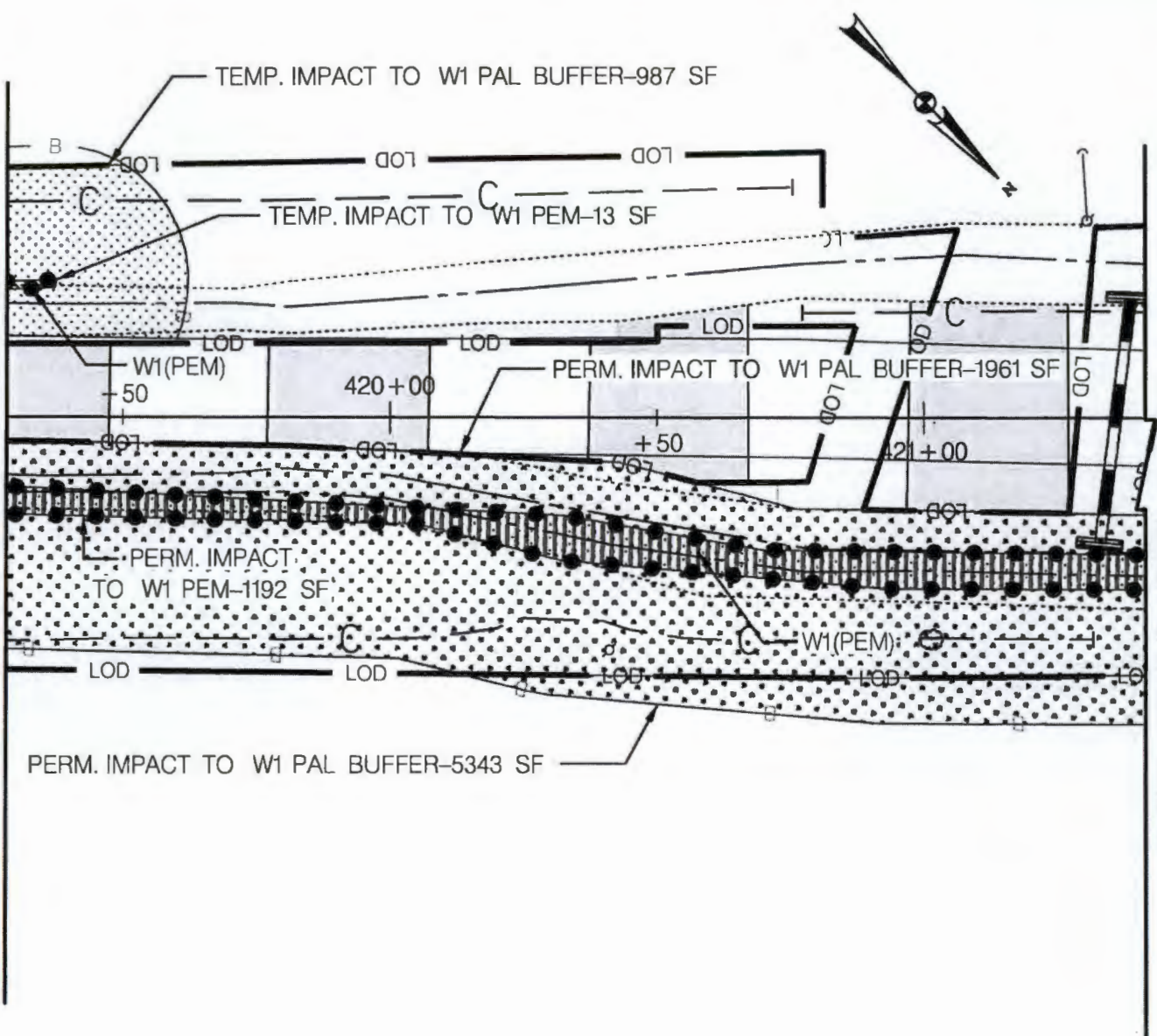


MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 59
SHEET 68 OF 76 DATE: JANUARY 2018
REVISION:

MATCH LINE SEE PLATE 59

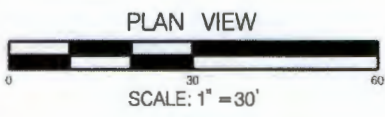
MATCH LINE SEE PLATE 61



- 
TEMPORARY PALUSTRINE BUFFER IMPACTS
- 
TEMPORARY PEM WETLAND IMPACTS
- 
PERMANENT PALUSTRINE BUFFER IMPACTS
- 
PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	1192 S.F.	13 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	7304 S.F.	987 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	0 S.F.	0 S.F.



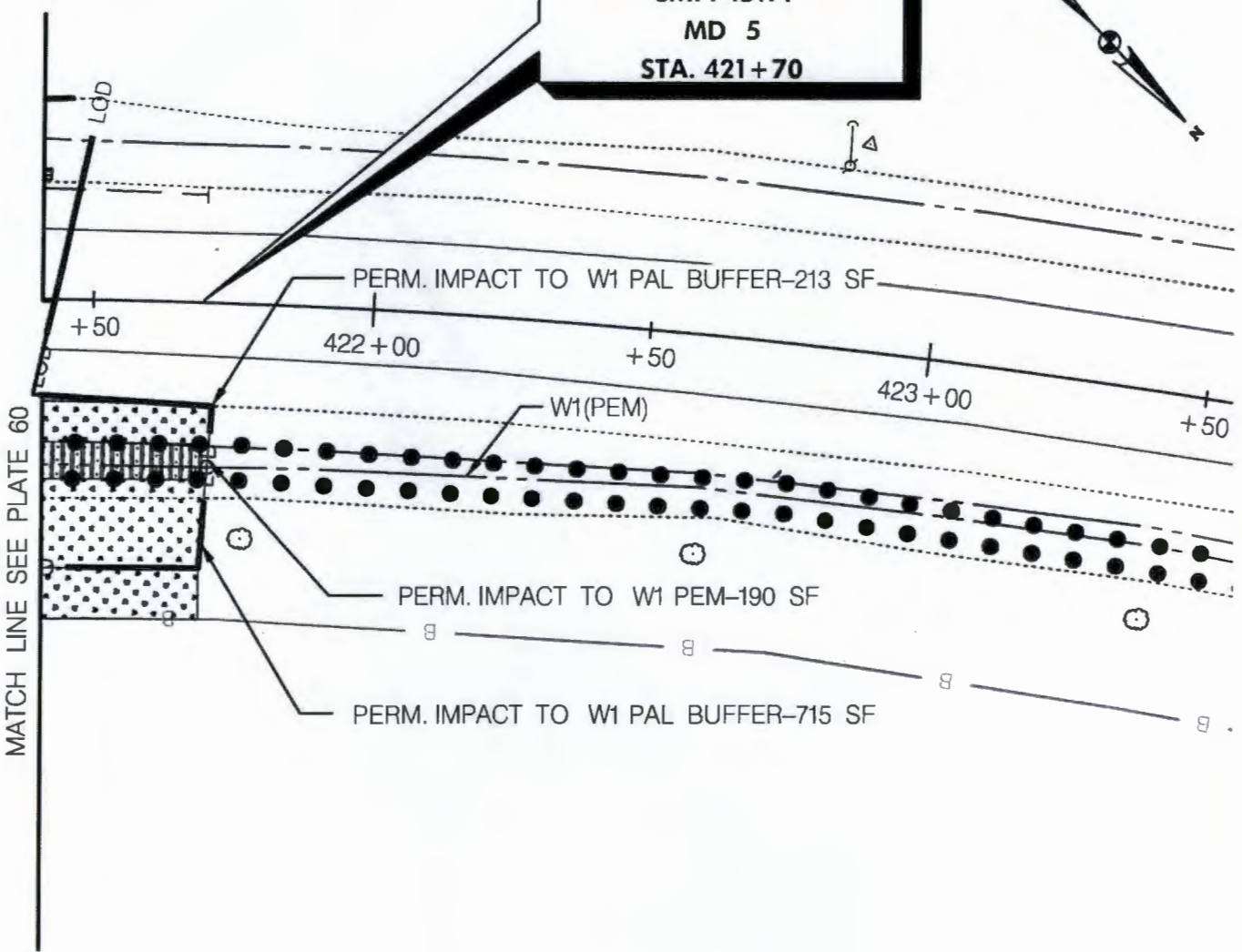
MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 60
SHEET 69 OF 76 DATE: JANUARY 2018
REVISION:

PURPOSE: MD 5 WETLAND IMPACTS

LIMIT OF WORK

SM7745171
MD 5
STA. 421+70



MATCH LINE SEE PLATE 60

PERMANENT PALUSTRINE BUFFER IMPACTS

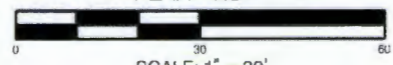
PERMANENT PEM WETLAND IMPACTS

IMPACTS TO THIS PLATE

	PERMANENT	TEMPORARY
PFO WETLAND	0 S.F.	0 S.F.
PEM WETLAND	190 S.F.	0 S.F.
PSS WETLAND	0 S.F.	0 S.F.
E2SS WETLAND	0 S.F.	0 S.F.
E2SS TIDAL WETLAND	0 S.F.	0 S.F.
E2EM WETLAND	0 S.F.	0 S.F.
E2EM TIDAL WETLAND	0 S.F.	0 S.F.
E2FO WETLAND	0 S.F.	0 S.F.
PALUSTRINE BUFFER	928 S.F.	0 S.F.
ESTUARINE BUFFER	0 S.F.	0 S.F.
100-YEAR FLOODPLAIN CRITICAL AREA	0 S.F.	0 S.F.

PURPOSE: MD 5 WETLAND IMPACTS

PLAN VIEW

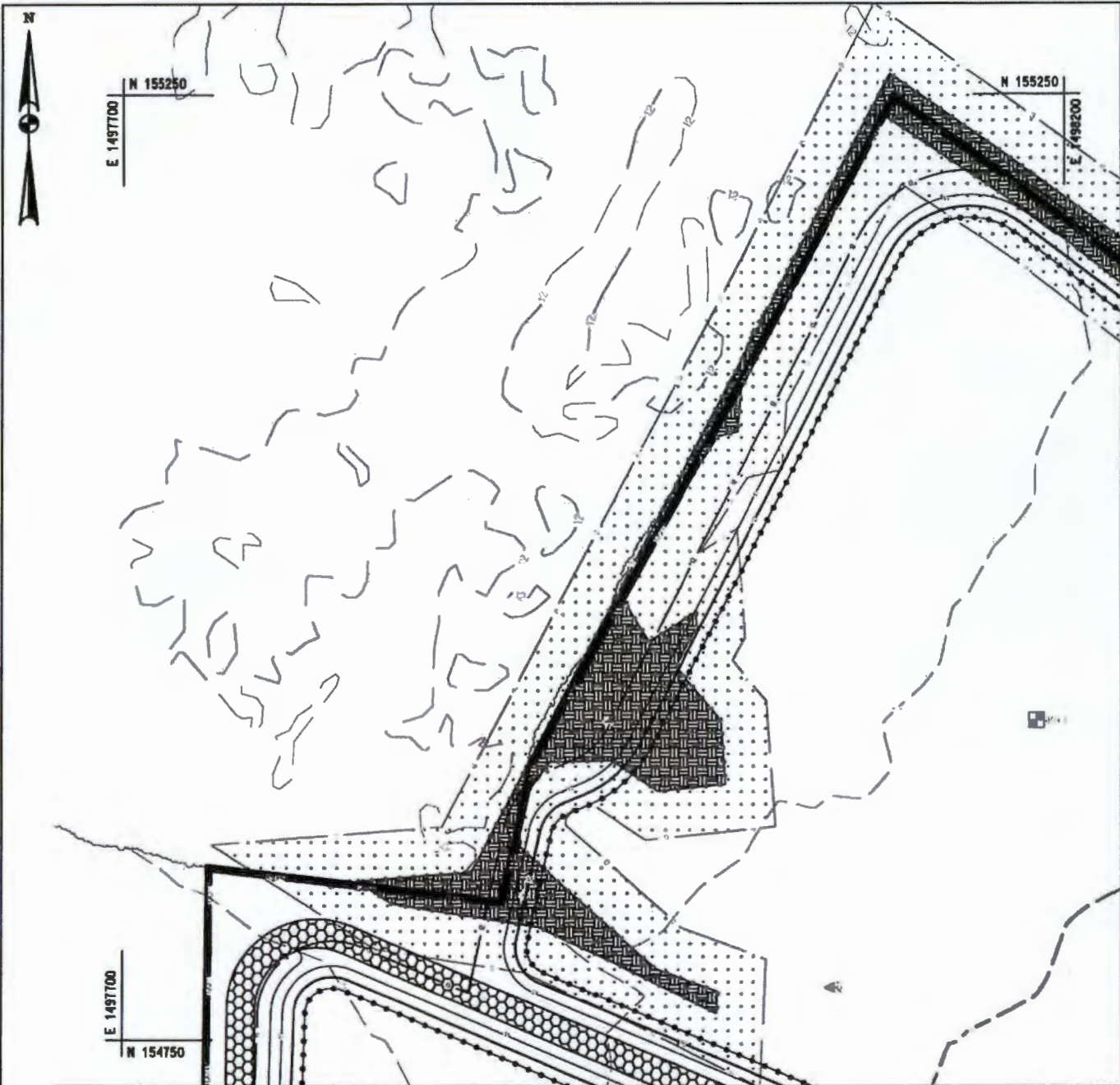


SCALE: 1" = 30'



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

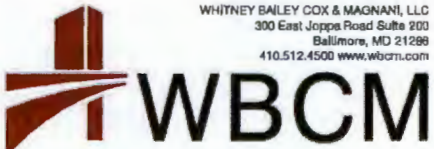
CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDOT SHA
WETLAND PLATE NO. 61
SHEET 70 OF 76 DATE: JANUARY 2018
REVISION:



SEE SHEET WP-02

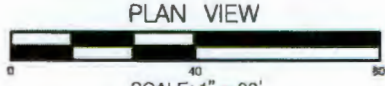
SEE SHEET WP-03

IMPACTS		
IMPACTS	PERMANENT IMPACTS	TEMPORARY IMPACTS
PEM WETLAND	0.00	15,089 SF 0.35 AC
PEM WETLAND BUFFER	0.00	47,627 SF 1.09 AC



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21288
410.512.4500 www.wbcm.com

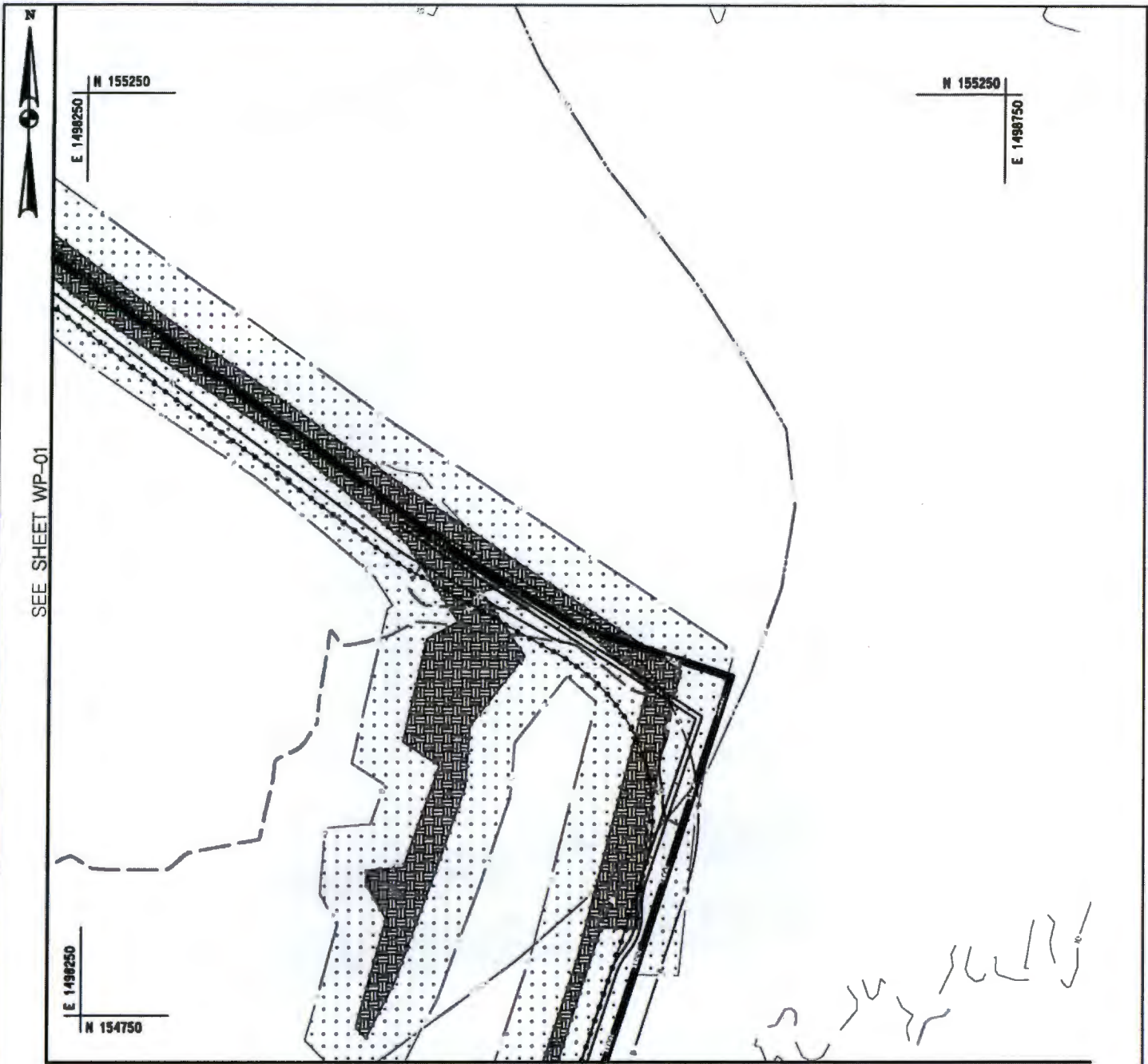
PURPOSE: MD 5 WETLAND IMPACTS
TENNYSON MITIGATION SITE



SCALE: 1" = 80'
MDSHA
MARYLAND DEPARTMENT
OF TRANSPORTATION
STATE HIGHWAY
ADMINISTRATION

MARYLAND STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDSHA
WETLAND PLATE NO. WP-01
SHEET 71 OF 76 DATE: JANUARY 2018
REVISION:



IMPACTS		
IMPACTS	PERMANENT IMPACTS	TEMPORARY IMPACTS
PEM WETLAND	0.00	17,233 SF 0.40 AC
PEM WETLAND BUFFER	0.00	44,219 SF 1.02 AC

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM

PURPOSE: MD 5 WETLAND IMPACTS
TENNYSON MITIGATION SITE

PLAN VIEW

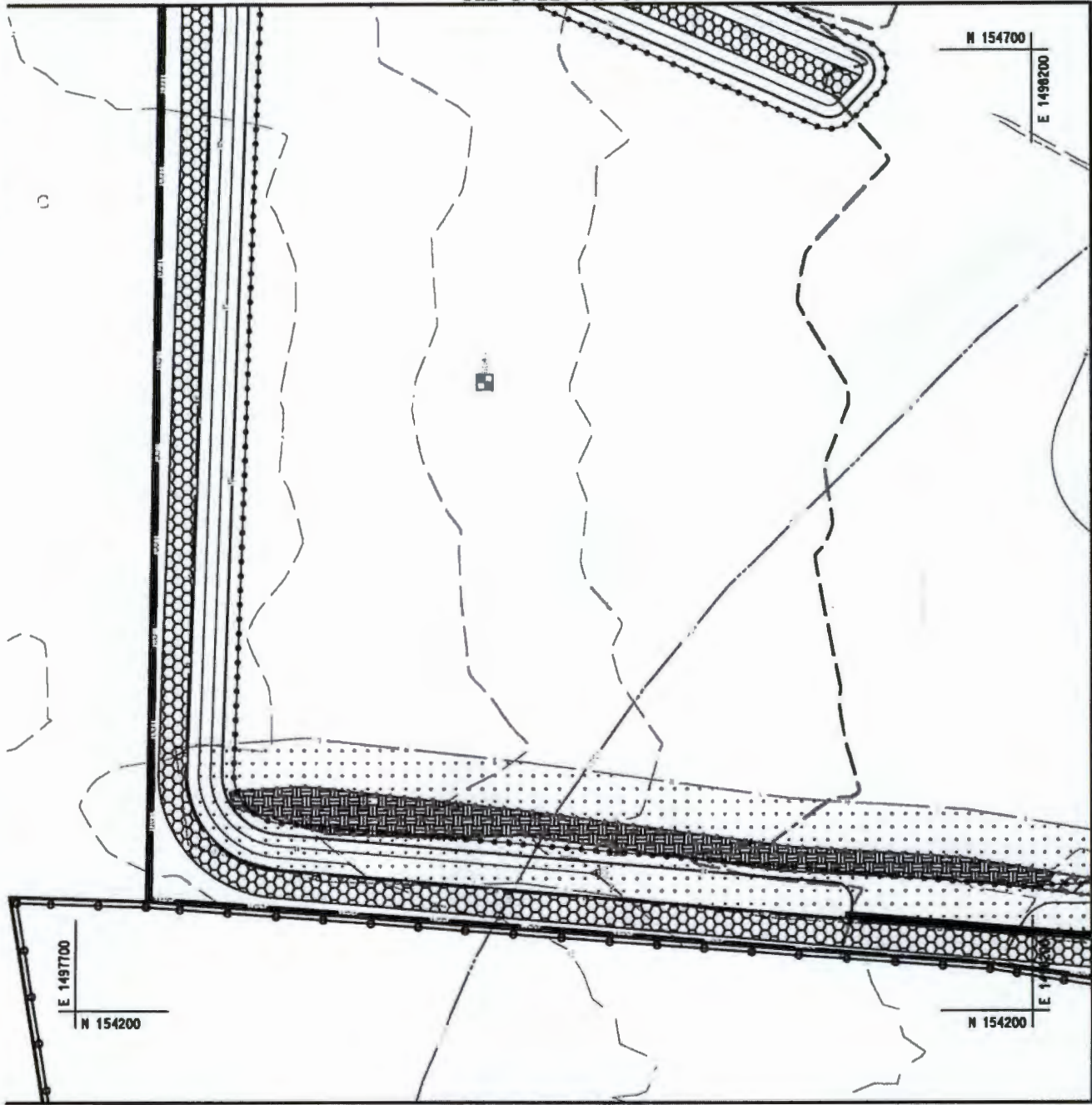
SCALE: 1" = 80'

MDOT
MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MARYLAND STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDSHA
 WETLAND PLATE NO. WP-02
 SHEET 72 OF 76 DATE: JANUARY 2018
 REVISION:

SEE SHEET WP-01



SEE SHEET WP-04

SEE SHEET WP-05

IMPACTS		
IMPACTS	PERMANENT IMPACTS	TEMPORARY IMPACTS
PEM WETLAND	224 SF 0.005 AC	6,146 SF 0.14 AC
PEM WETLAND BUFFER	0.00	24,088 SF 0.55 AC

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21285
410.512.4500 www.wbcm.com

WBCM

PURPOSE: MD 5 WETLAND IMPACTS
TENNYSON MITIGATION SITE

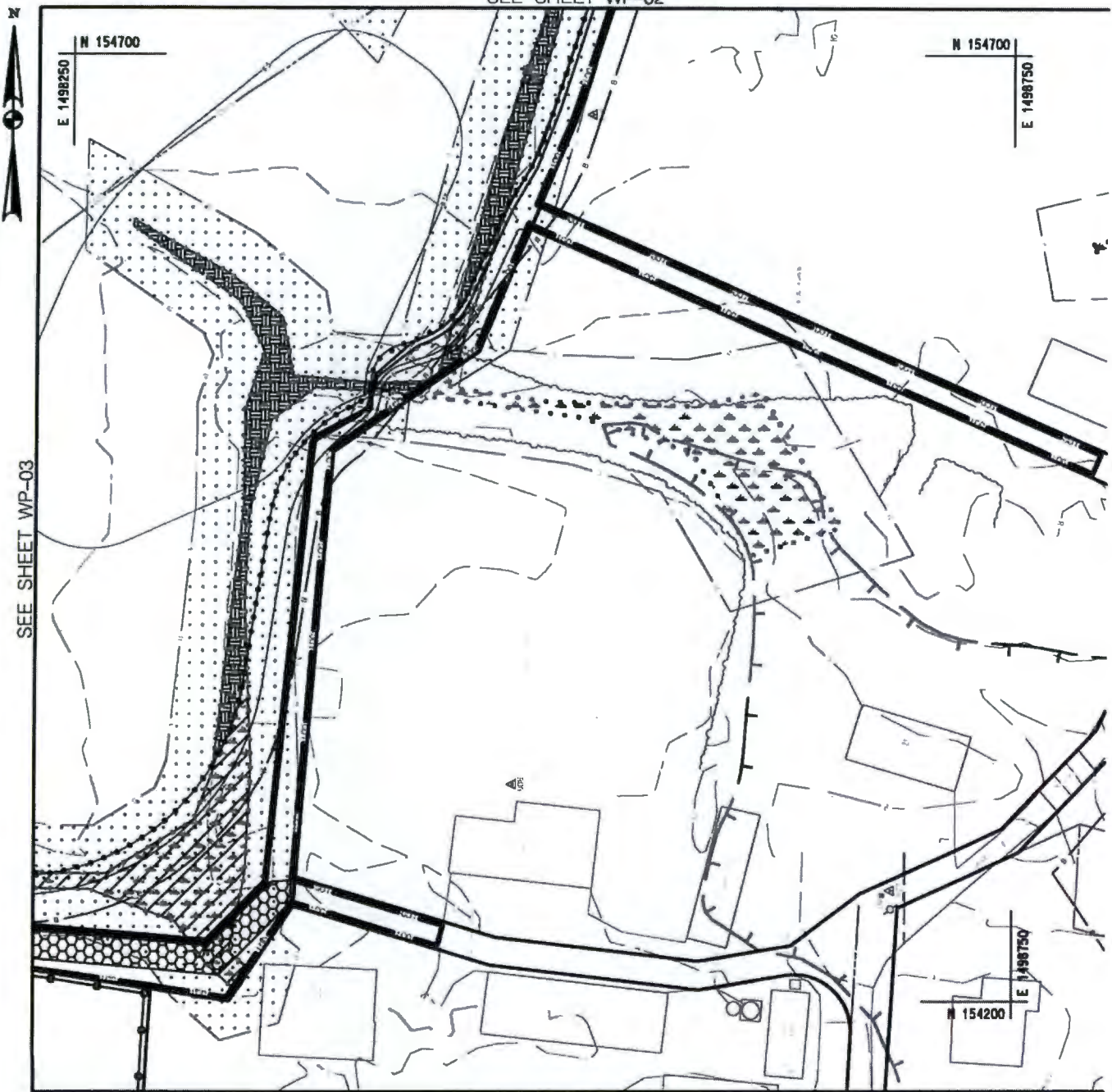
PLAN VIEW

SCALE: 1" = 80'

MARYLAND STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDSHA
WETLAND PLATE NO. WP-03
SHEET 73 OF 76 DATE: JANUARY 2018
REVISION:

SEE SHEET WP-02

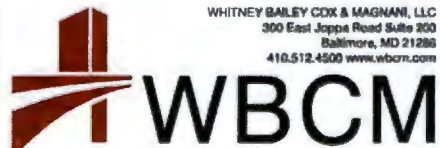


SEE SHEET WP-03

SEE SHEET WP-06

IMPACTS

IMPACTS	PERMANENT IMPACTS	TEMPORARY IMPACTS
PEM WETLAND	5,446 SF 0.13 AC	4,906 SF 0.11 AC
PEM WETLAND BUFFER	0.00	38,946 SF 0.89 AC



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300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

PURPOSE: MD 5 WETLAND IMPACTS
TENNYSON MITIGATION SITE

PLAN VIEW



SCALE: 1" = 80'



MARYLAND STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171

COUNTY: ST. MARY'S

STATE: MARYLAND

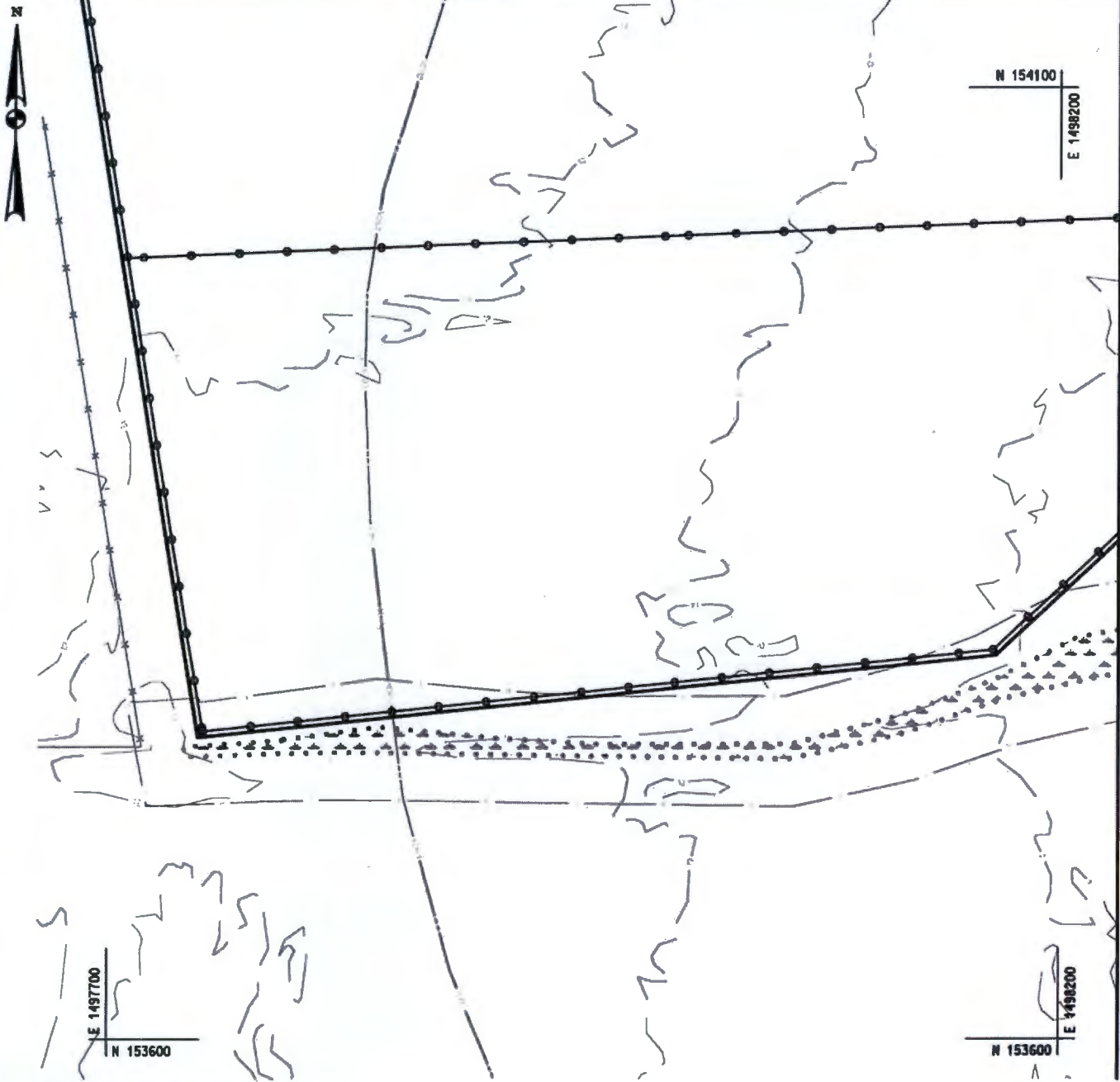
APPLICATION BY: MDSA

WETLAND PLATE NO. WP-04

SHEET 74 OF 76 DATE: JANUARY 2018

REVISION:

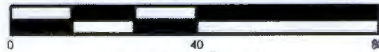
SEE SHEET WP-03



SEE SHEET WP-06

IMPACTS		
IMPACTS	PERMANENT IMPACTS	TEMPORARY IMPACTS
PEM WETLAND	0.00	0.00
PEM WETLAND BUFFER	0.00	0.00

PLAN VIEW

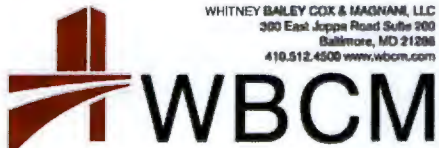


SCALE: 1" = 80'



STATE HIGHWAY ADMINISTRATION
 MARYLAND STATE HIGHWAY ADMINISTRATION
 707 NORTH CALVERT ST.
 BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
 COUNTY: ST. MARY'S
 STATE: MARYLAND
 APPLICATION BY: MDSHA
 WETLAND PLATE NO. WP-05
 SHEET 75 OF 76 DATE: JANUARY 2018
 REVISION:



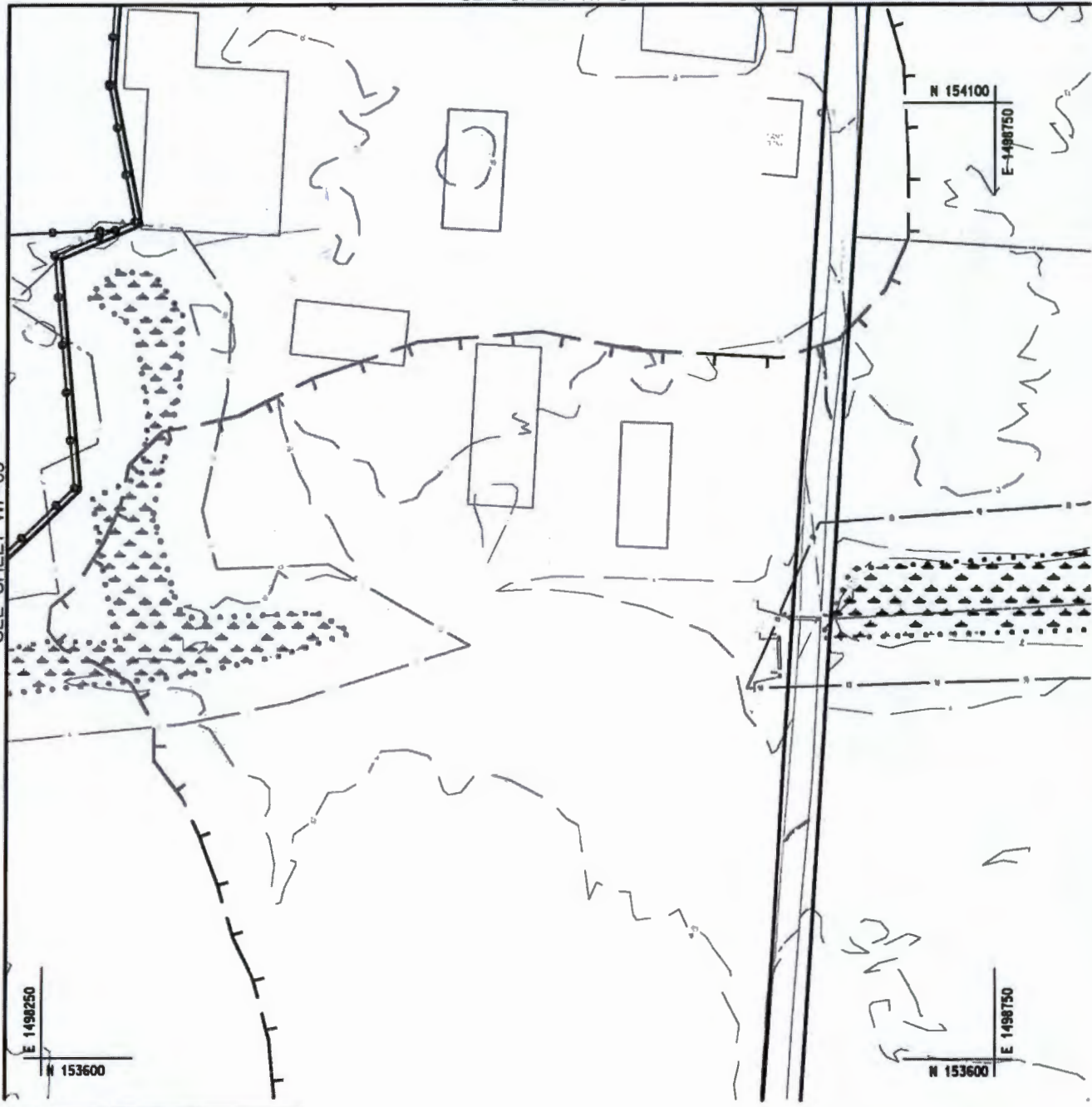
WHITNEY BAILEY COX & MAGNANI, LLC
 300 East Joppa Road Suite 900
 Baltimore, MD 21286
 410.512.4500 www.wbcm.com

PURPOSE: MD 5 WETLAND IMPACTS
 TENNYSON MITIGATION SITE

SEE SHEET WP-04



SEE SHEET WP-05



IMPACTS		
IMPACTS	PERMANENT IMPACTS	TEMPORARY IMPACTS
PEM WETLAND	0.00	0.00
PEM WETLAND BUFFER	0.00	0.00

WHITNEY BAILEY COX & MAGNANI, LLC
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Baltimore, MD 21288
410.512.4500 www.wbcm.com

WBCM

PURPOSE: MD 5 WETLAND IMPACTS
TENNYSON MITIGATION SITE

PLAN VIEW

SCALE: 1" = 80'

STATE HIGHWAY ADMINISTRATION

MARYLAND STATE HIGHWAY ADMINISTRATION
707 NORTH CALVERT ST.
BALTIMORE, MARYLAND 21202

CONTRACT NO.: SM7745171
COUNTY: ST. MARY'S
STATE: MARYLAND
APPLICATION BY: MDSHA
WETLAND PLATE NO. WP-06
SHEET 76 OF 76 DATE: JANUARY 2018
REVISION: