

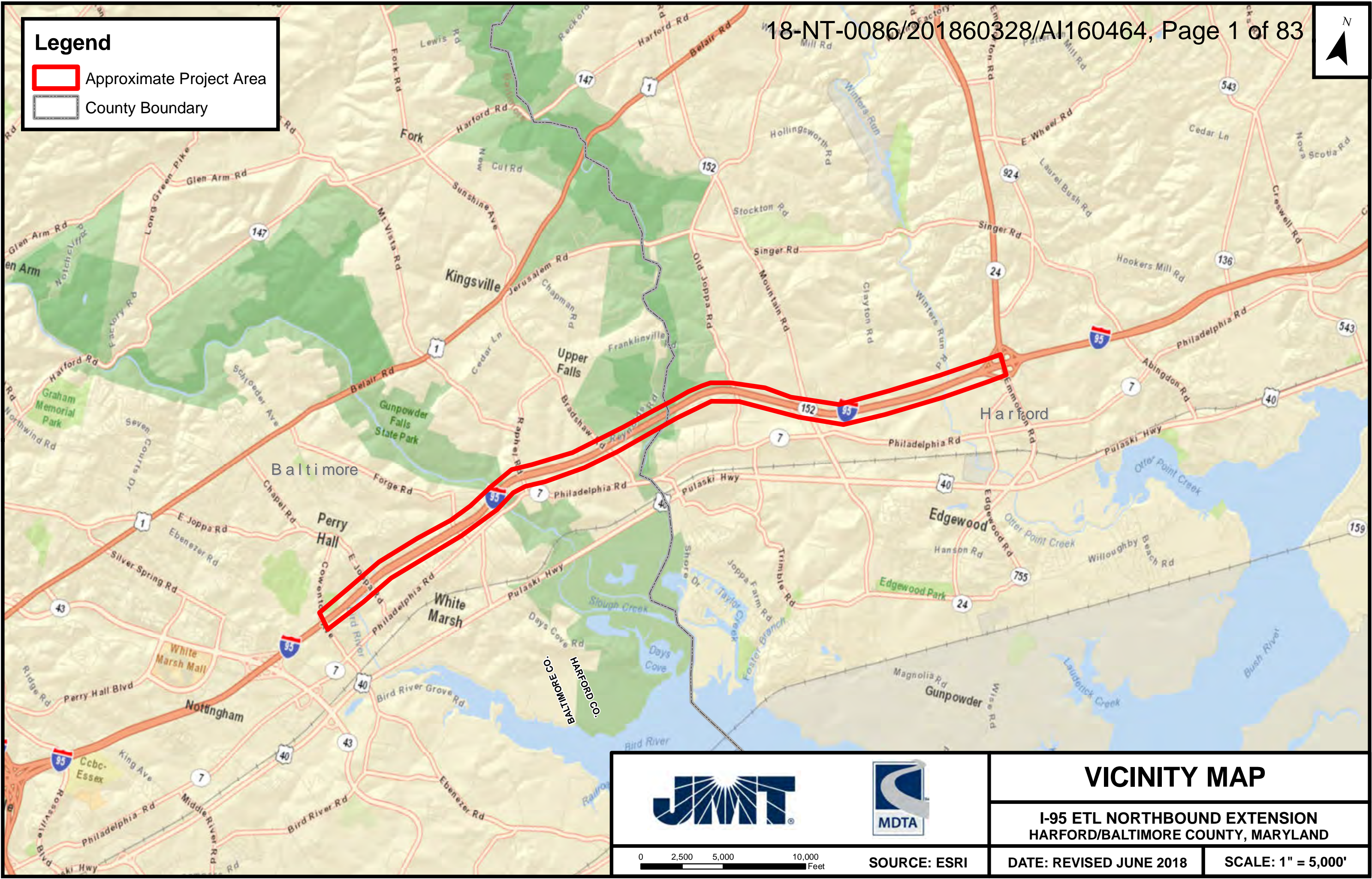




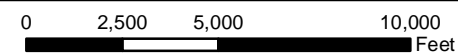
Legend

-  Approximate Project Area
-  County Boundary



VICINITY MAP

I-95 ETL NORTHBOUND EXTENSION
HARFORD/BALTIMORE COUNTY, MARYLAND

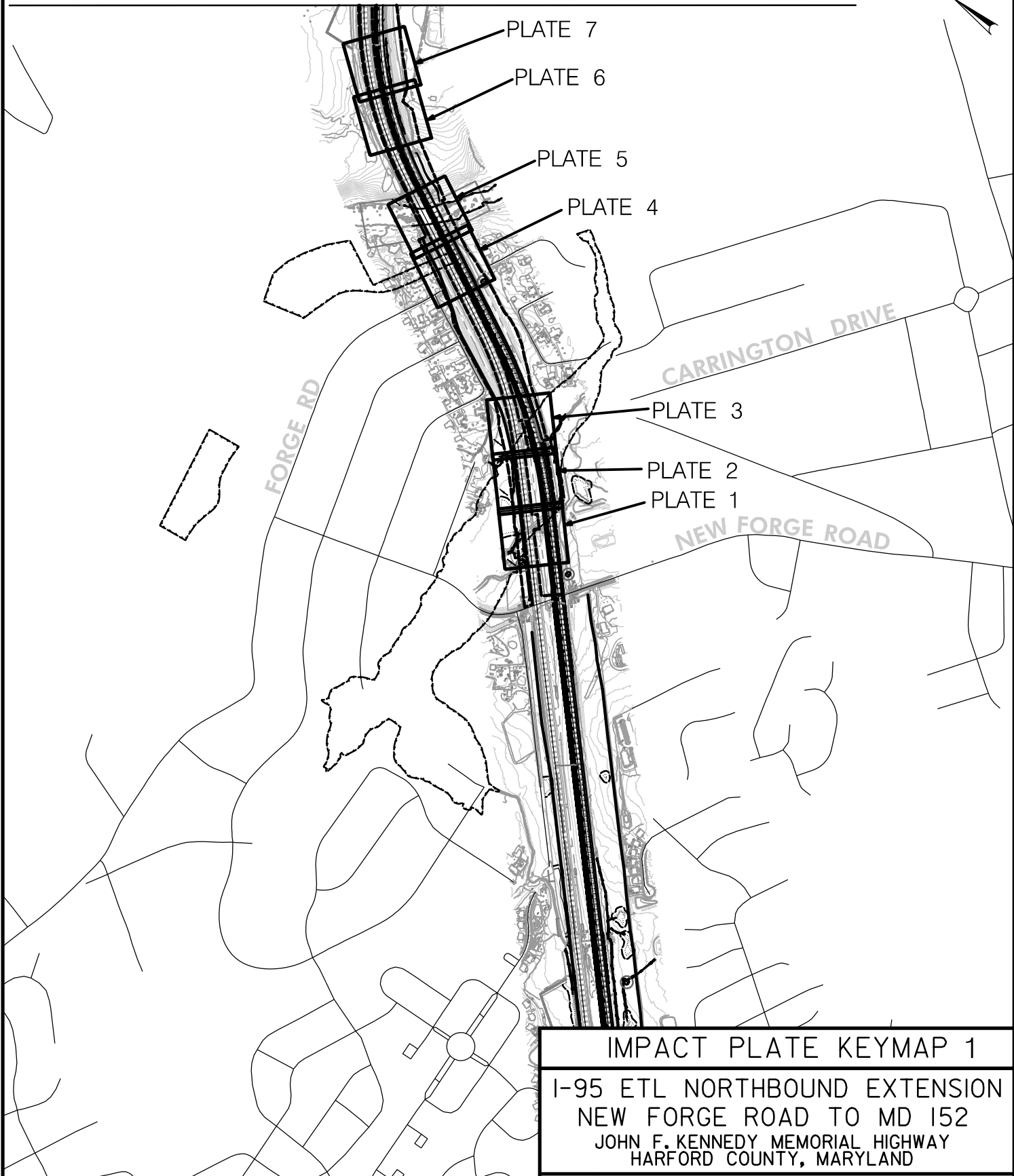


SOURCE: ESRI

DATE: REVISED JUNE 2018

SCALE: 1" = 5,000'

MATCHLINE KEYMAP 2



IMPACT PLATE KEYMAP 1

I-95 ETL NORTHBOUND EXTENSION
NEW FORGE ROAD TO MD 152
JOHN F. KENNEDY MEMORIAL HIGHWAY
HARFORD COUNTY, MARYLAND



**MARYLAND
TRANSPORTATION AUTHORITY**

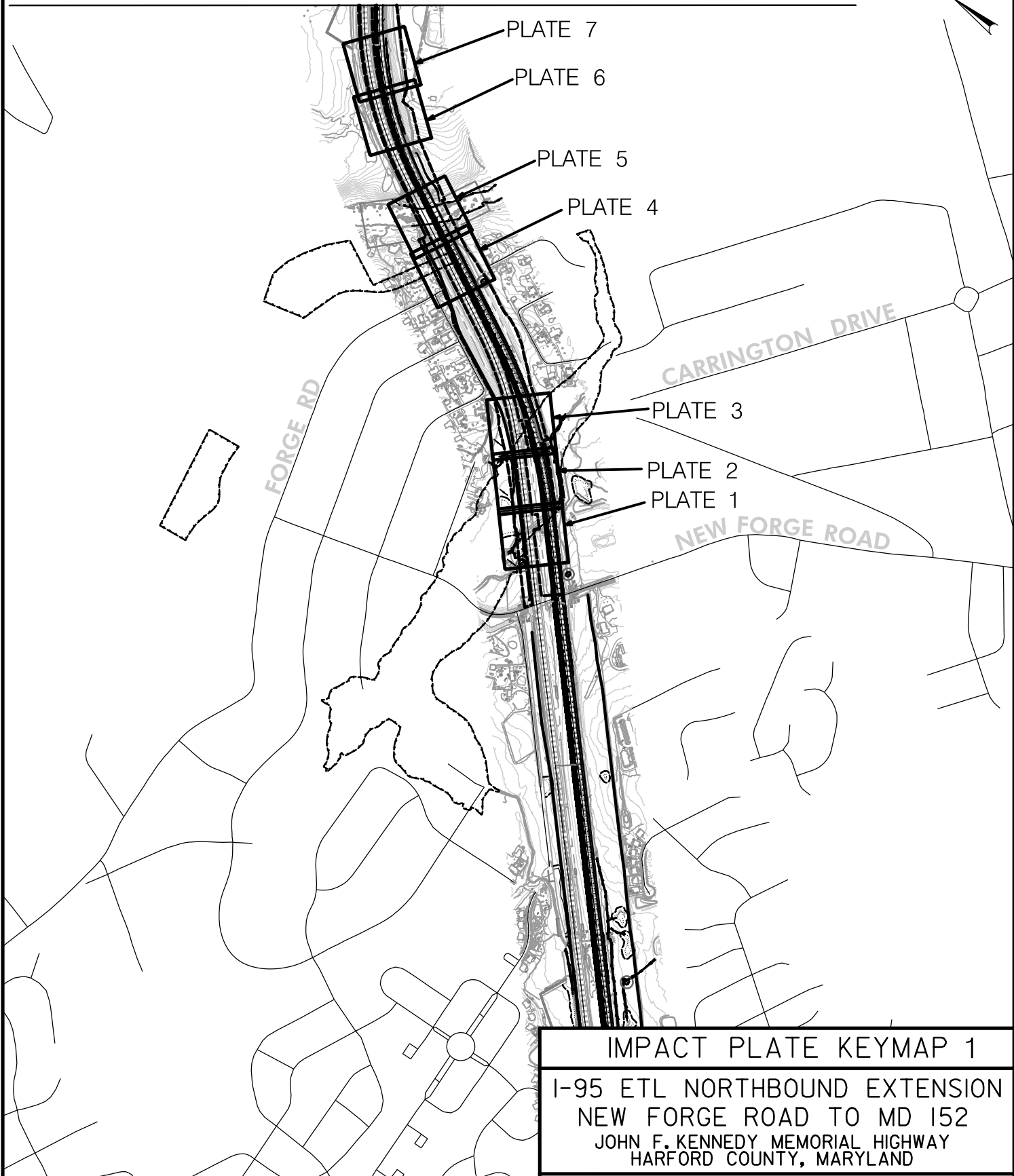


SCALE: 1"=1000'

SCALE: 1" = 1000'

DATE: MAY 2018

MATCHLINE KEYMAP 2



IMPACT PLATE KEYMAP 1

I-95 ETL NORTHBOUND EXTENSION
NEW FORGE ROAD TO MD 152
JOHN F. KENNEDY MEMORIAL HIGHWAY
HARFORD COUNTY, MARYLAND



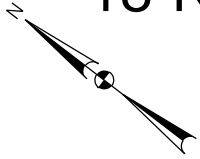
**MARYLAND
TRANSPORTATION AUTHORITY**



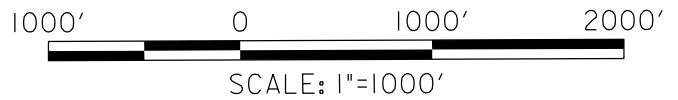
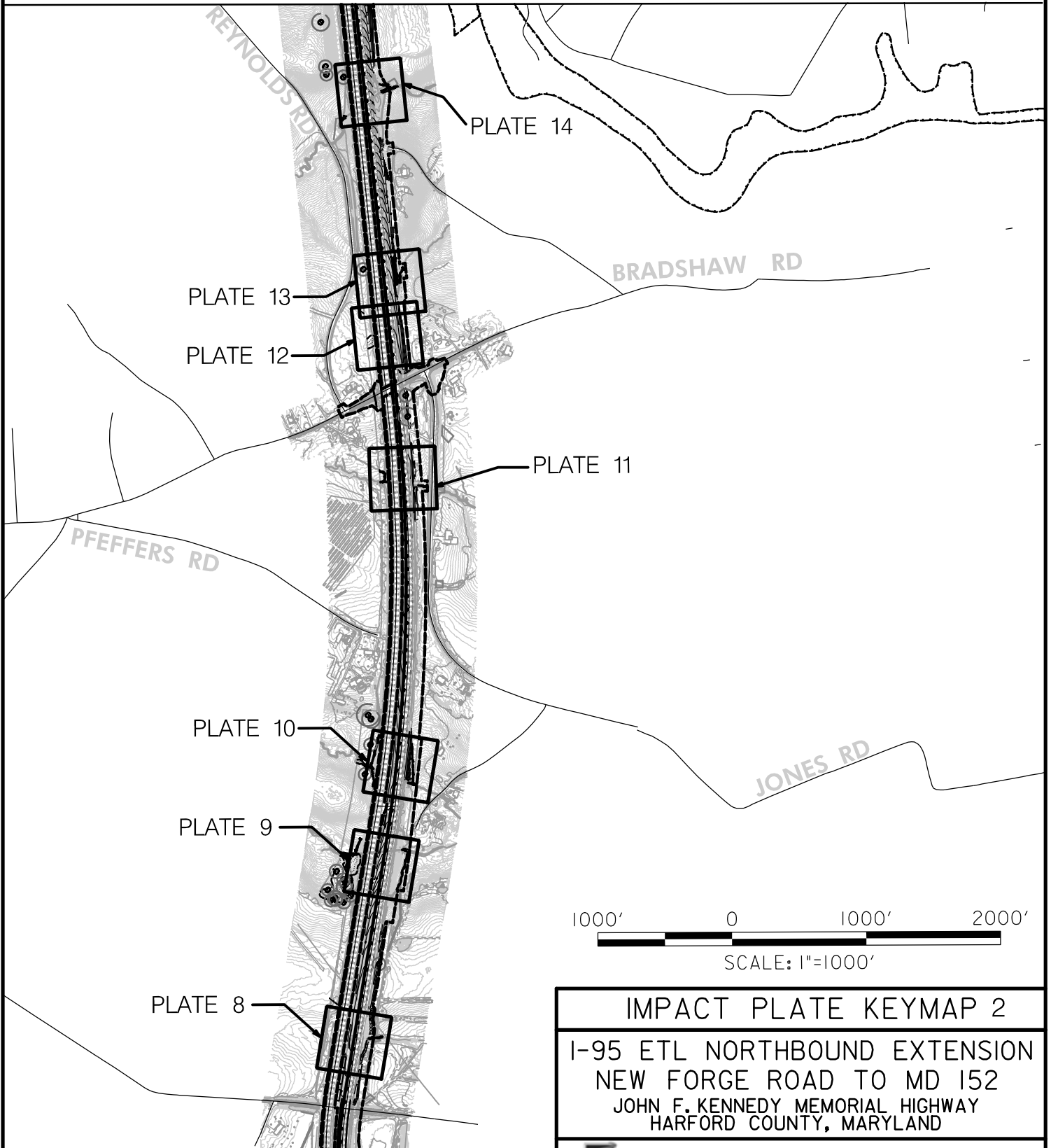
SCALE: 1"=1000'

SCALE: 1" = 1000'

DATE: MAY 2018



MATCHLINE KEYMAP 3



MATCHLINE KEYMAP 1

IMPACT PLATE KEYMAP 2

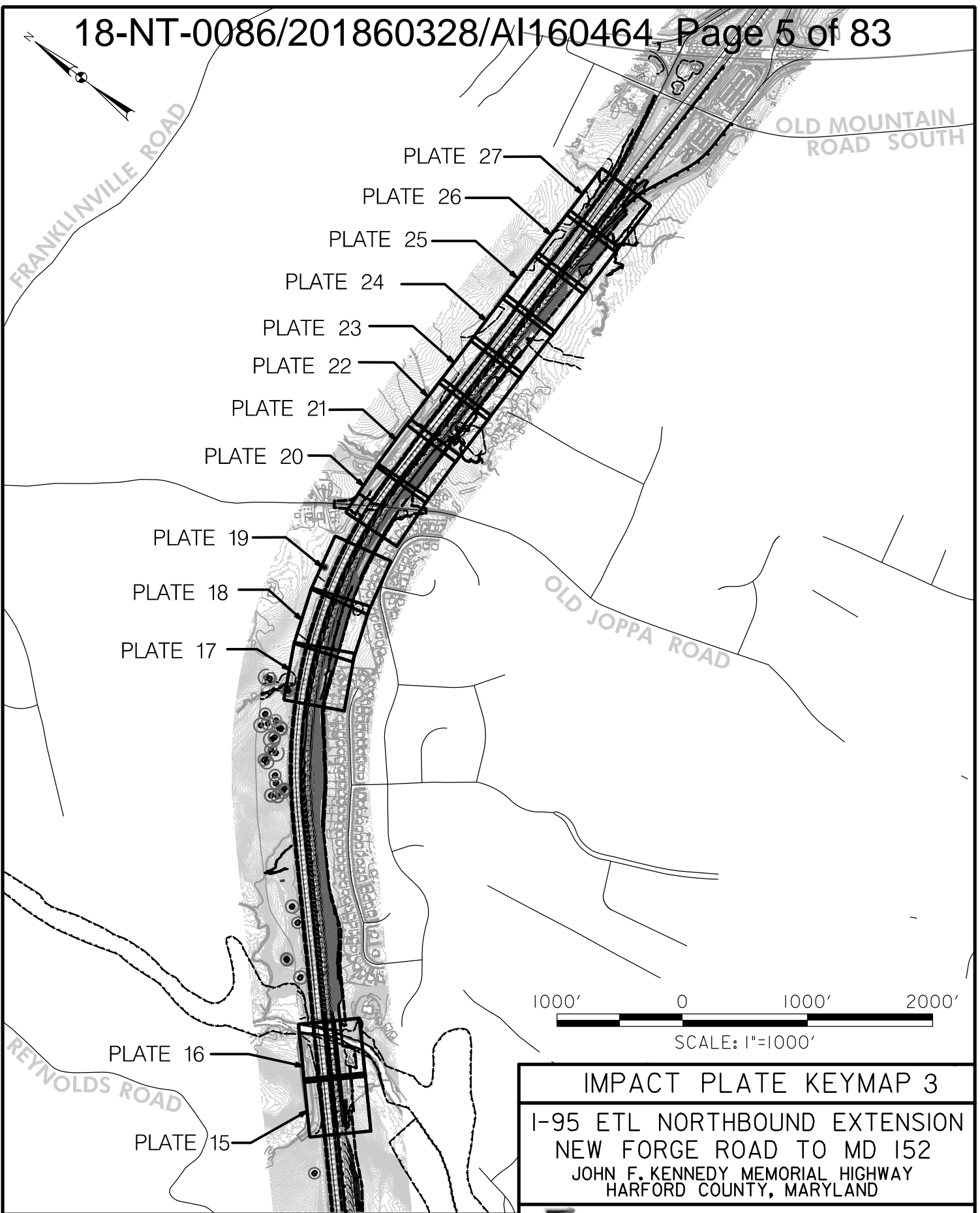
**I-95 ETL NORTHBOUND EXTENSION
NEW FORGE ROAD TO MD 152
JOHN F. KENNEDY MEMORIAL HIGHWAY
HARFORD COUNTY, MARYLAND**



**MARYLAND
TRANSPORTATION AUTHORITY**

SCALE: 1" = 1000'

DATE: MAY 2018



MATCHLINE KEYMAP 2

IMPACT PLATE KEYMAP 3

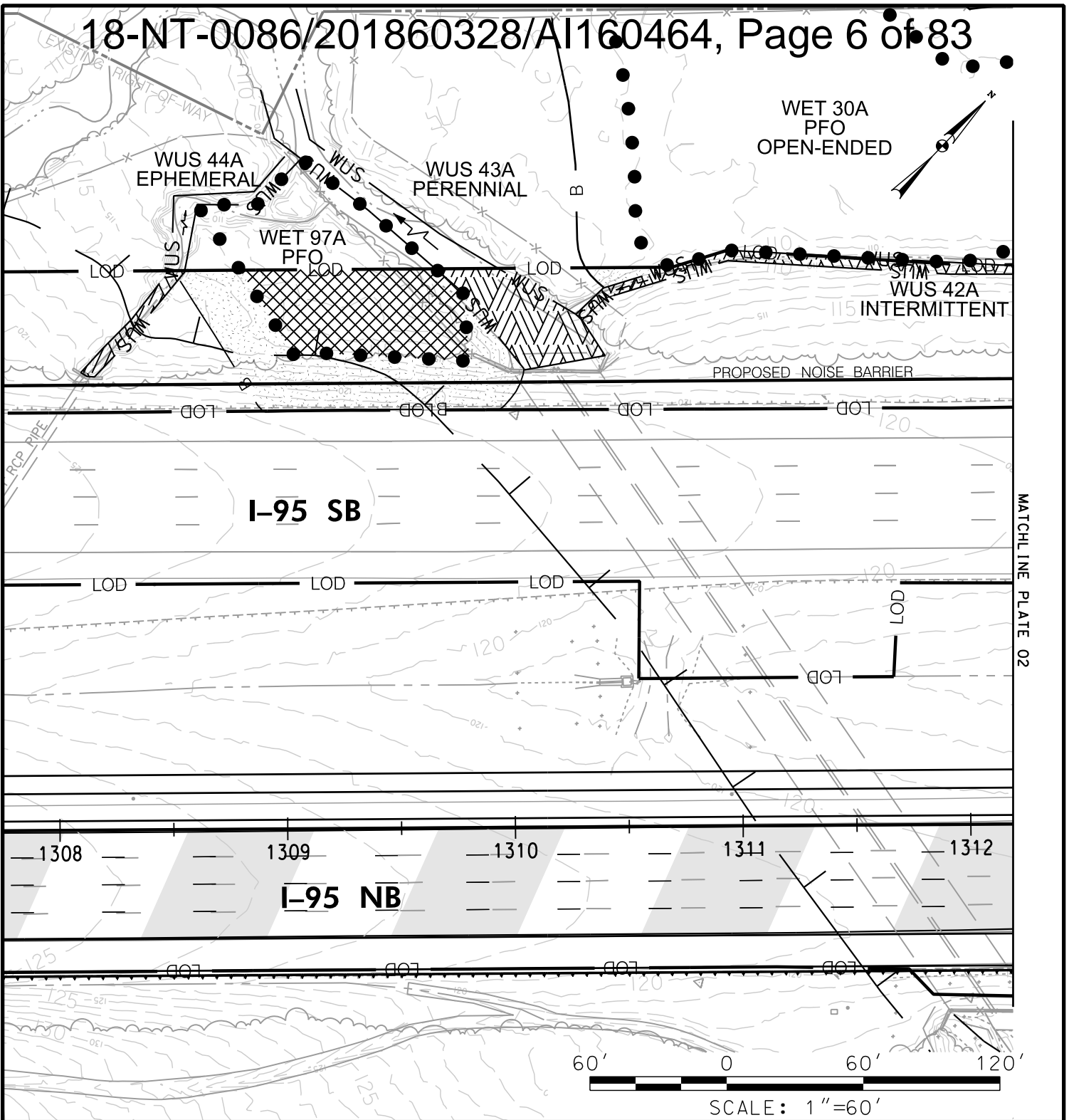
I-95 ETL NORTHBOUND EXTENSION
NEW FORGE ROAD TO MD 152
JOHN F. KENNEDY MEMORIAL HIGHWAY
HARFORD COUNTY, MARYLAND



MARYLAND
TRANSPORTATION AUTHORITY

SCALE: 1" = 1000'

DATE: MAY 2018



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	3,266 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	60/1,562 LF/SF
INTERMITTENT WUS	0 LF/SF	198/863 LF/SF
EPHEMERAL WUS	0 LF/SF	61/331 LF/SF
WETLAND BUFFER	0 SF	4,514 SF
100-YEAR FLOODPLAIN	0 SF	34,932 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



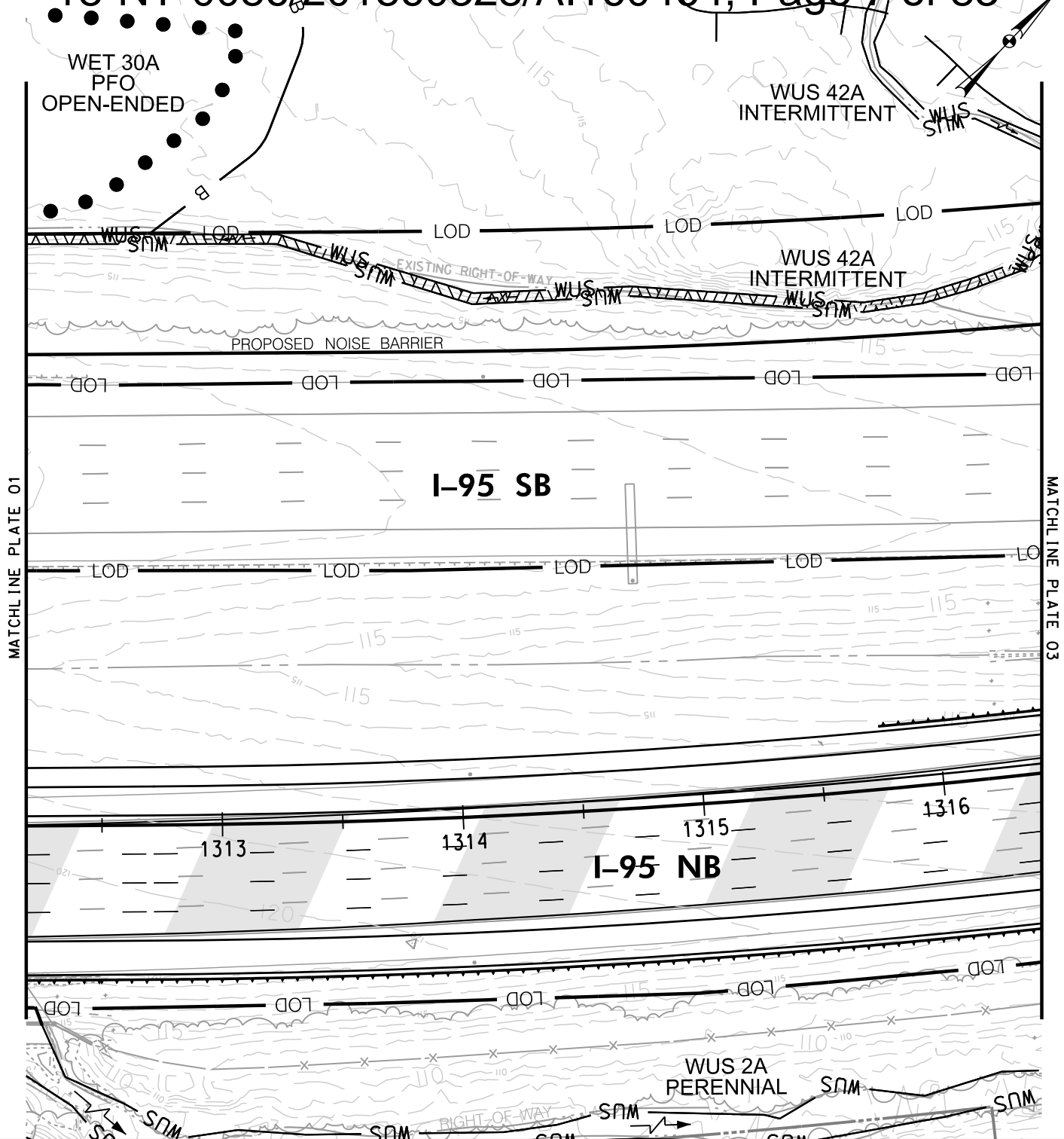
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009

DATE: MAY 2018

PLATE 01 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	435/1,787 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	100,190 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



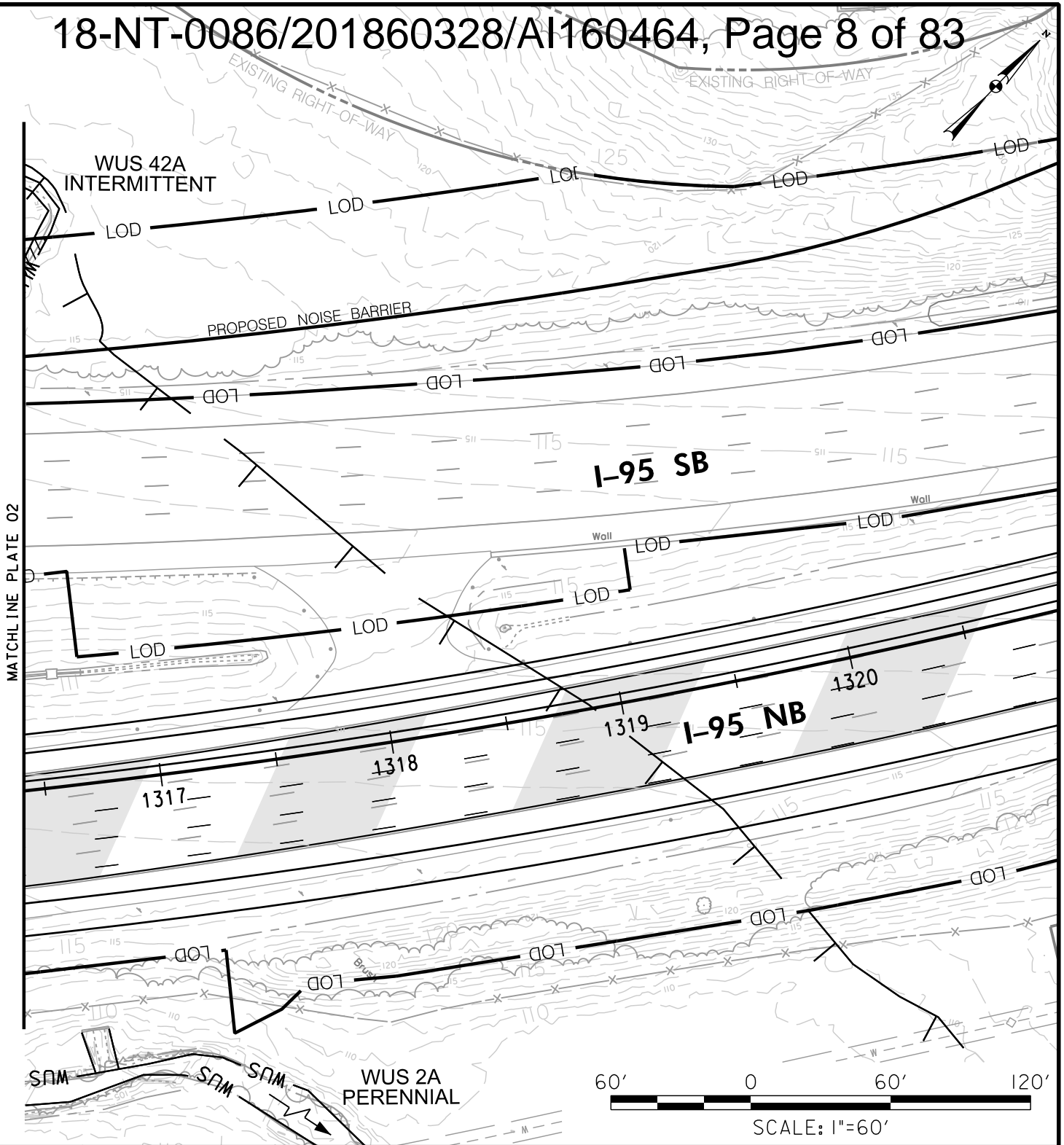
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 02 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	15/72 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	42,269 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



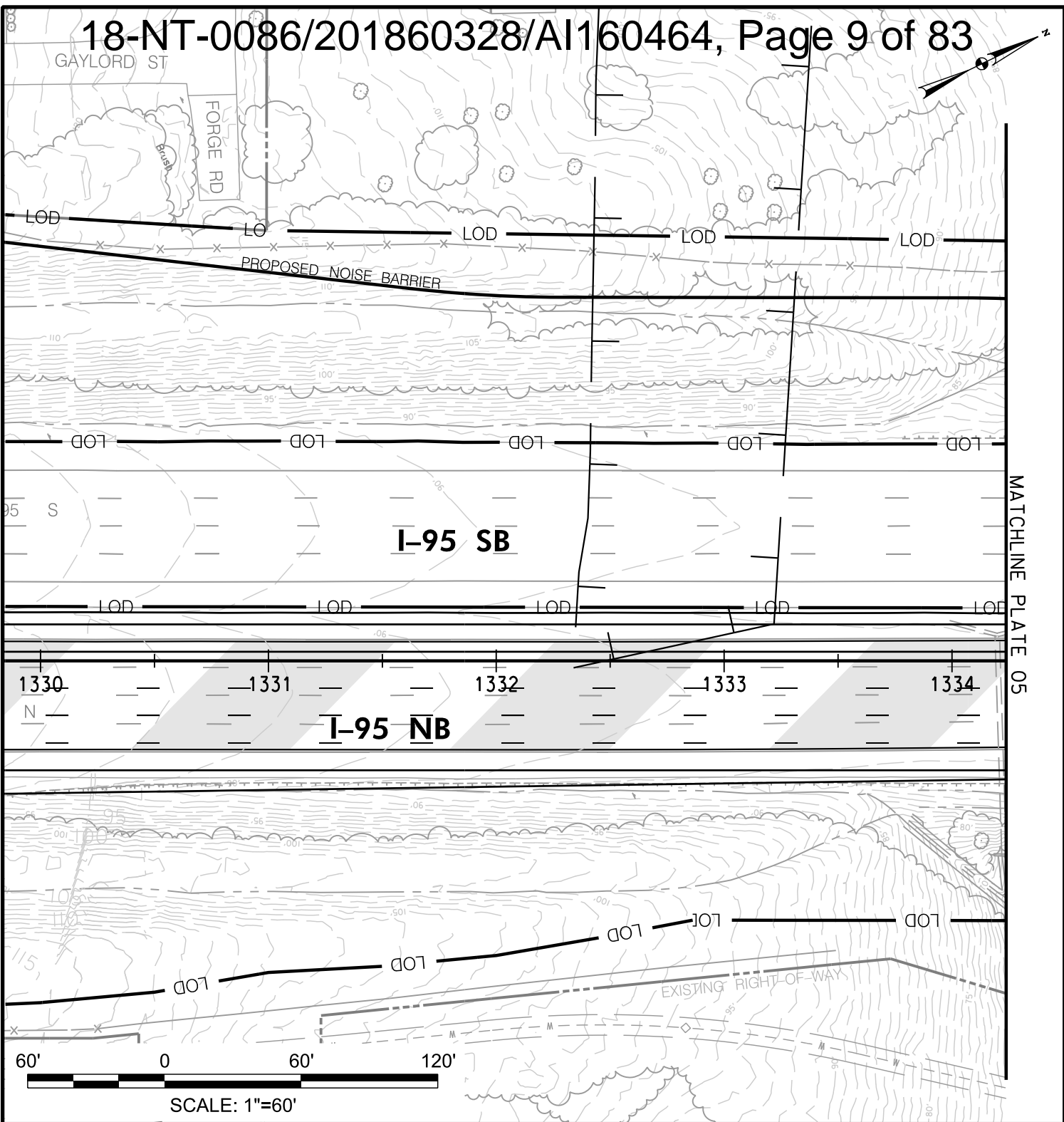
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 03 OF 27



MATCHLINE PLATE 05

IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	9,212 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

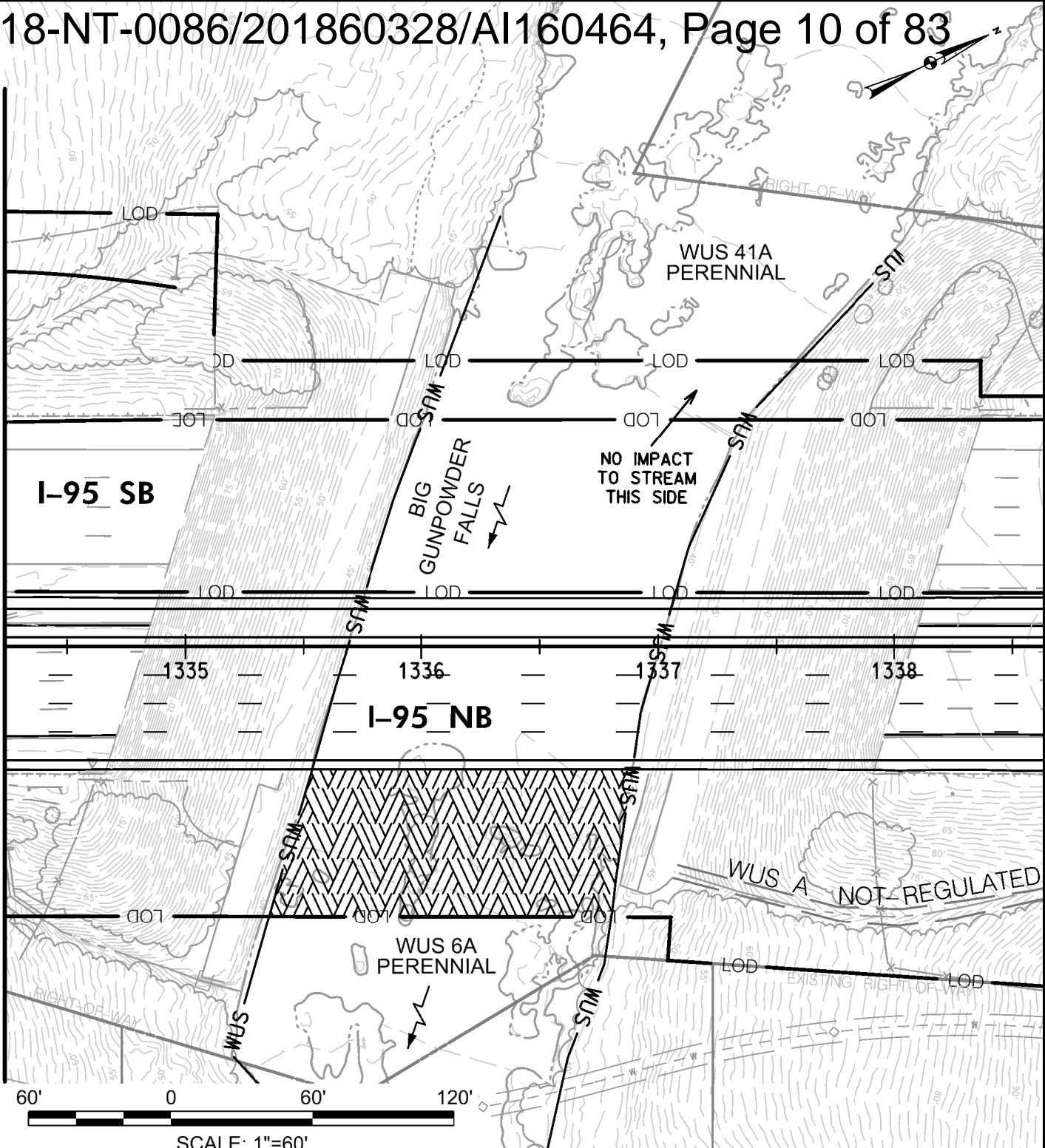
SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 04 OF 27

MATCHLINE PLATE 04



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	64/8,733 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

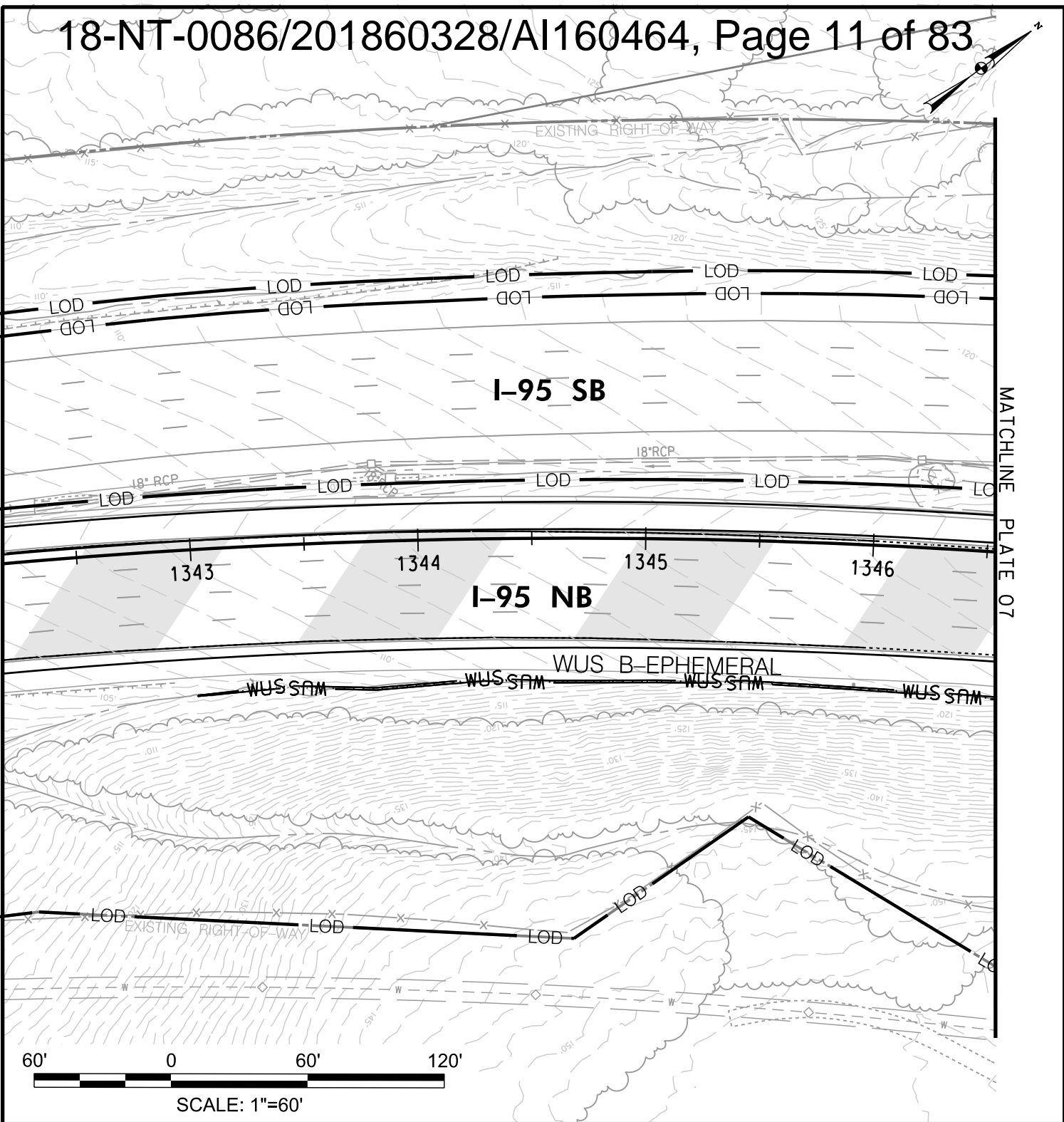
SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 05 OF 27

FILE: 0:\SMD\130770_048_195_ETL_N_Trans\CADD\N&CR\JPA PLATES\PTI - Plate 5-May.dgn
 DATE: Monday, May 14, 2018 AT 04:01 PM



MATCHLINE PLATE 07

IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	350/339 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



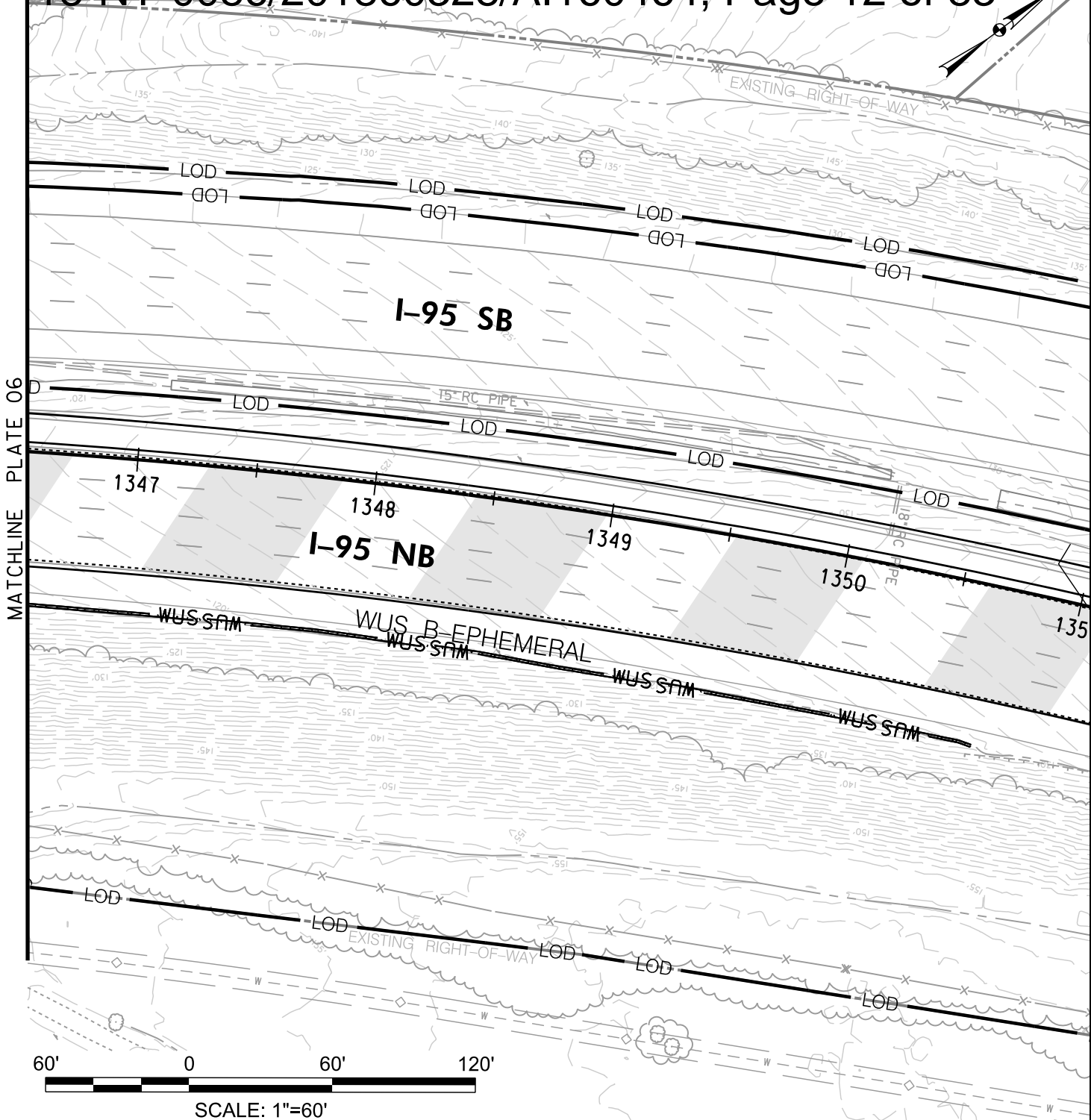
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 06 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	400/406 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



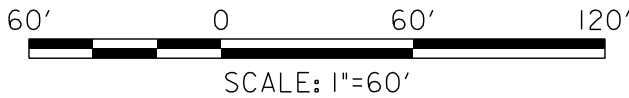
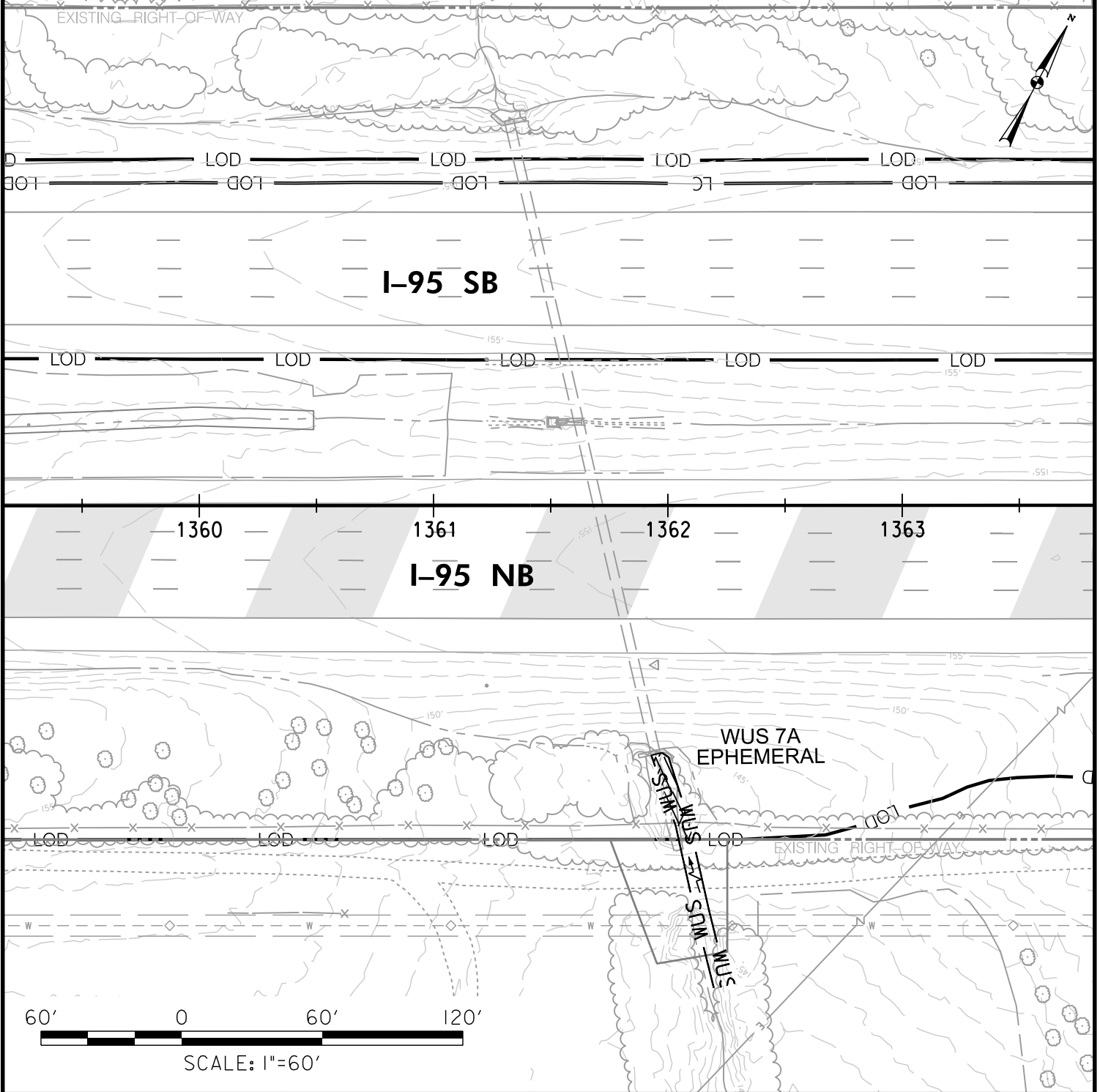
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 07 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	39/240 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
NEW FORGE ROAD TO MD 152

JOHN F. KENNEDY MEMORIAL HIGHWAY
BALTIMORE & HARFORD COUNTIES, MARYLAND



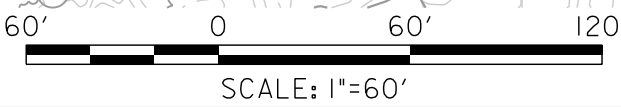
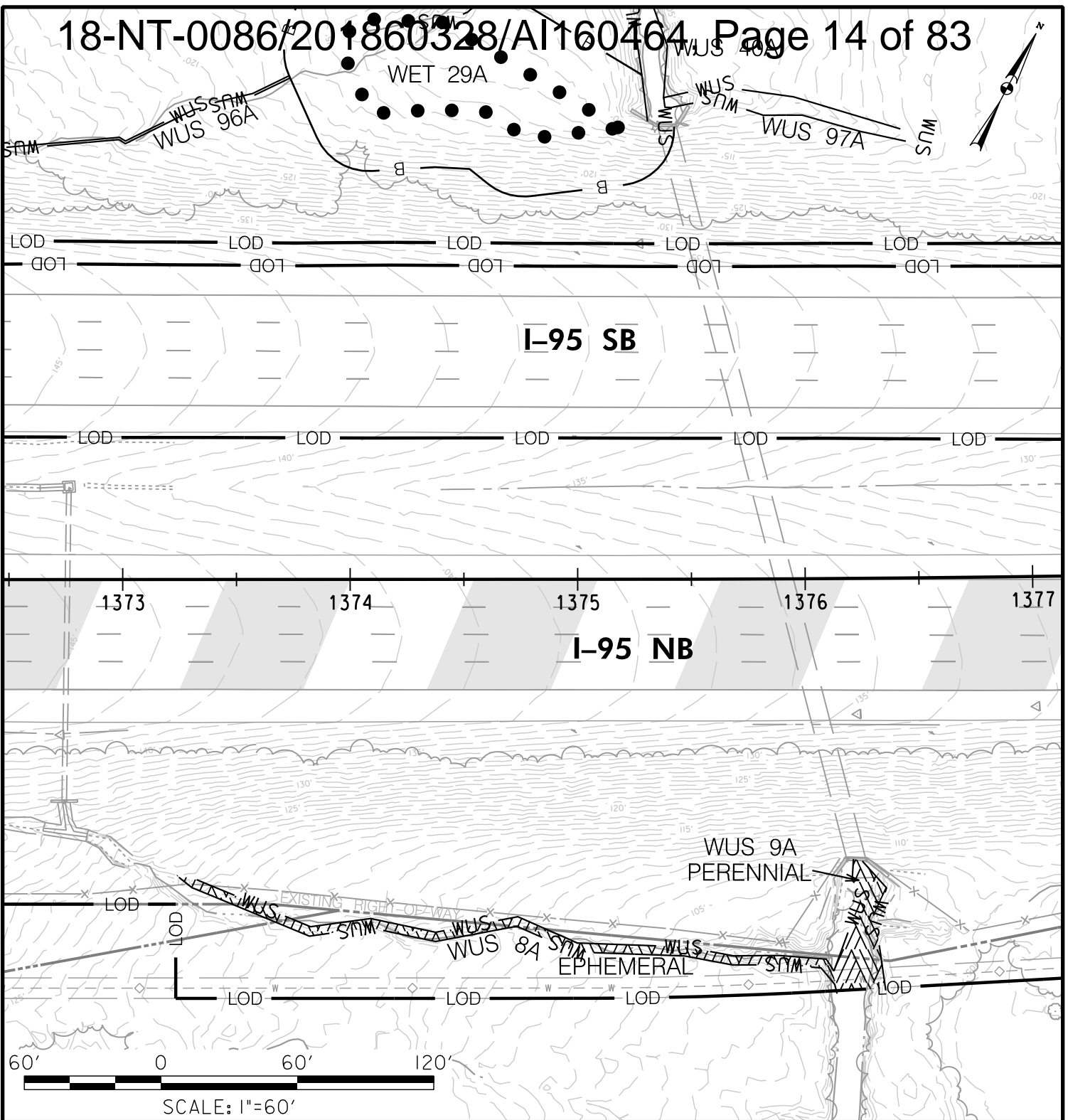
**MARYLAND
TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 08 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	62/789 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	297/1,186 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



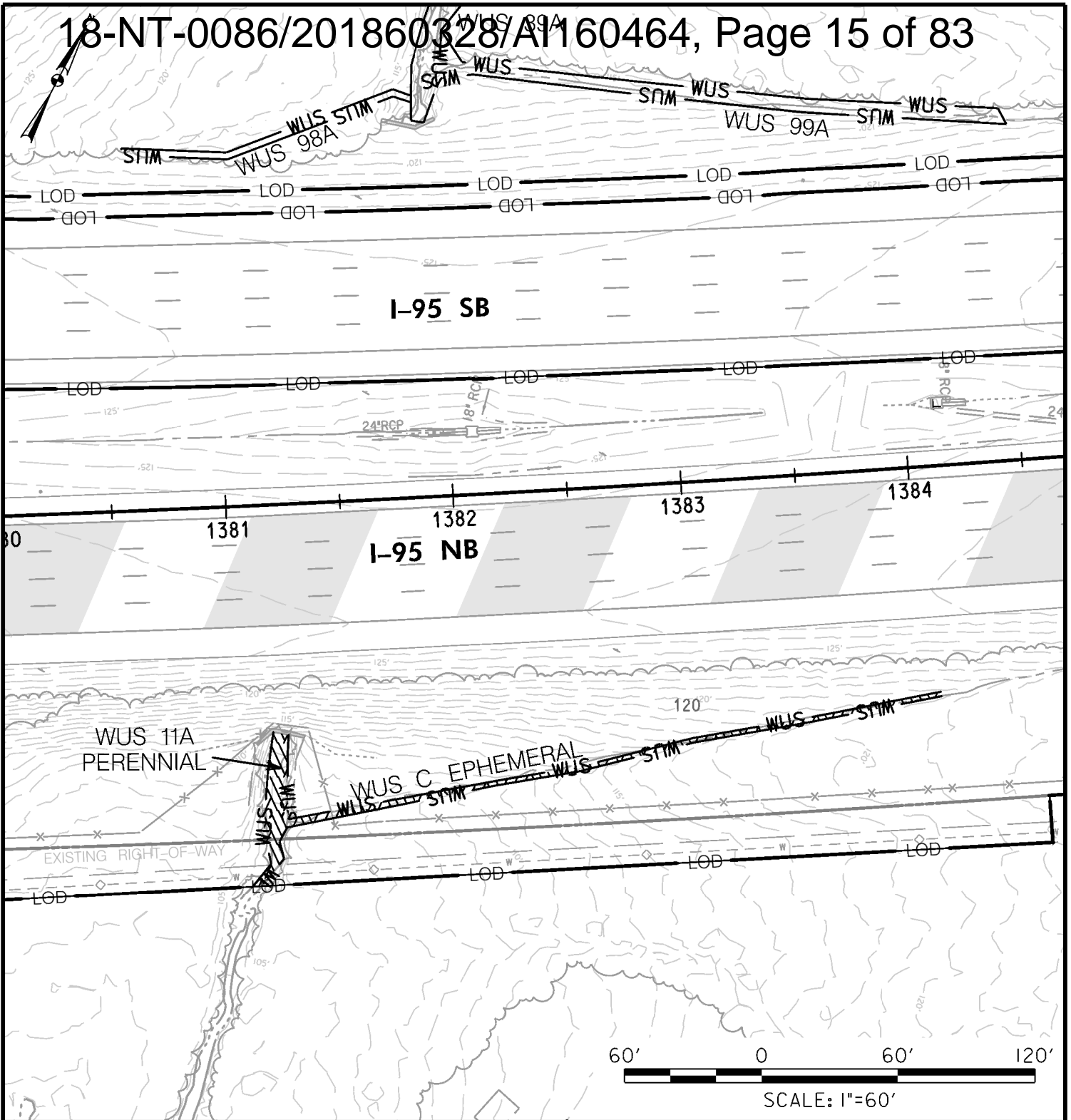
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 09 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY		PERMANENT	
	0 SF	0 SF	71/509 LF/SF	0 LF/SF
PFO WETLAND	0 SF	0 SF	0 SF	0 SF
PSS WETLAND	0 SF	0 SF	0 SF	0 SF
PEM WETLAND	0 SF	0 SF	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 SF	71/509 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 SF	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	0 SF	292/651 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	0 SF	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



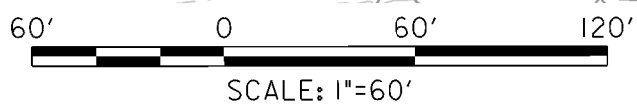
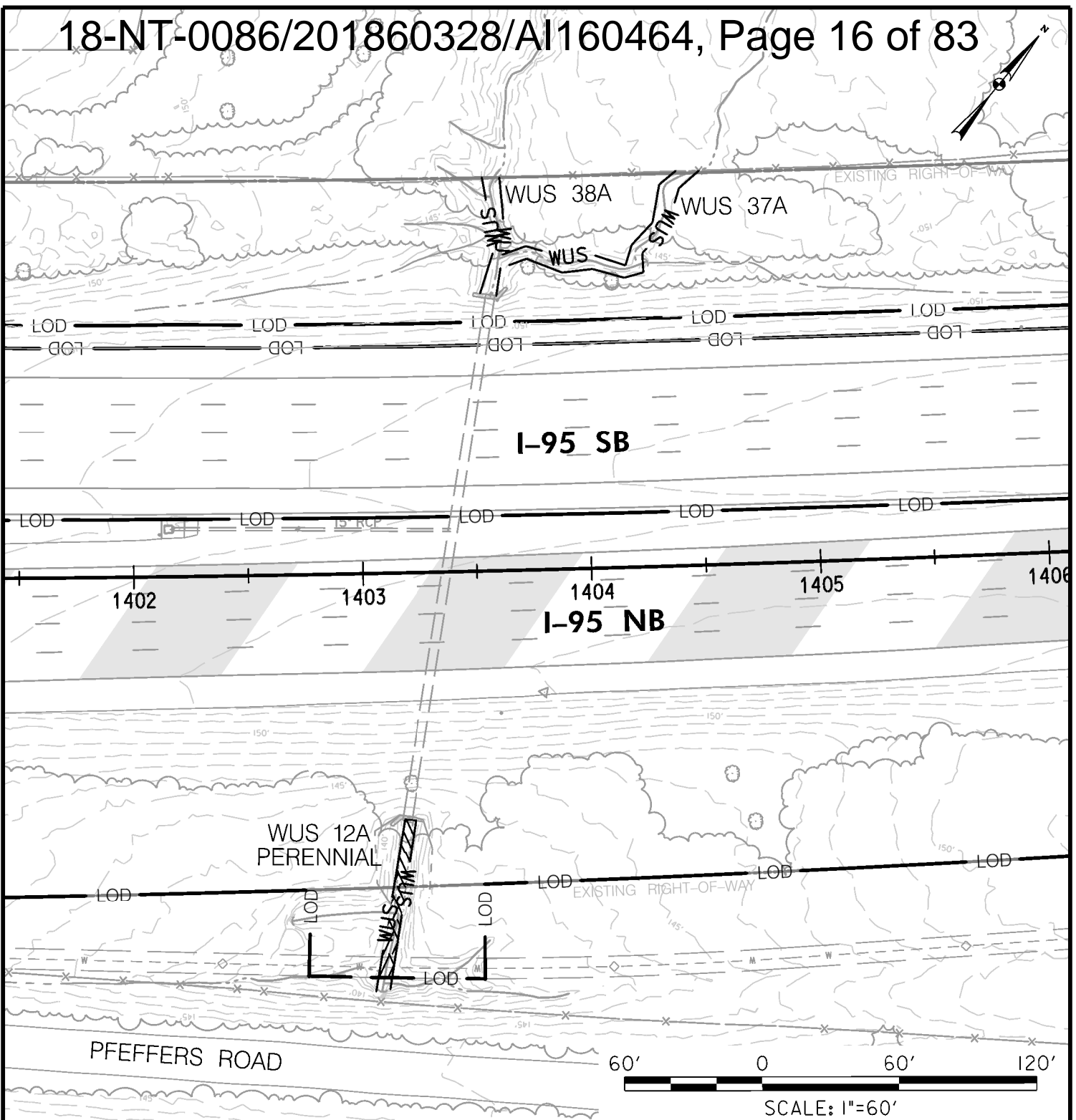
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 10 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY		PERMANENT	
		0 SF		0 SF
PFO WETLAND		0 SF		0 SF
PSS WETLAND		0 SF		0 SF
PEM WETLAND		0 SF		0 SF
PERENNIAL WUS		0 LF/SF	70/372 LF/SF	0 LF/SF
INTERMITTENT WUS		0 LF/SF		0 LF/SF
EPHEMERAL WUS		0 LF/SF		0 LF/SF
WETLAND BUFFER		0 SF		0 SF
100-YEAR FLOODPLAIN		0 SF		0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



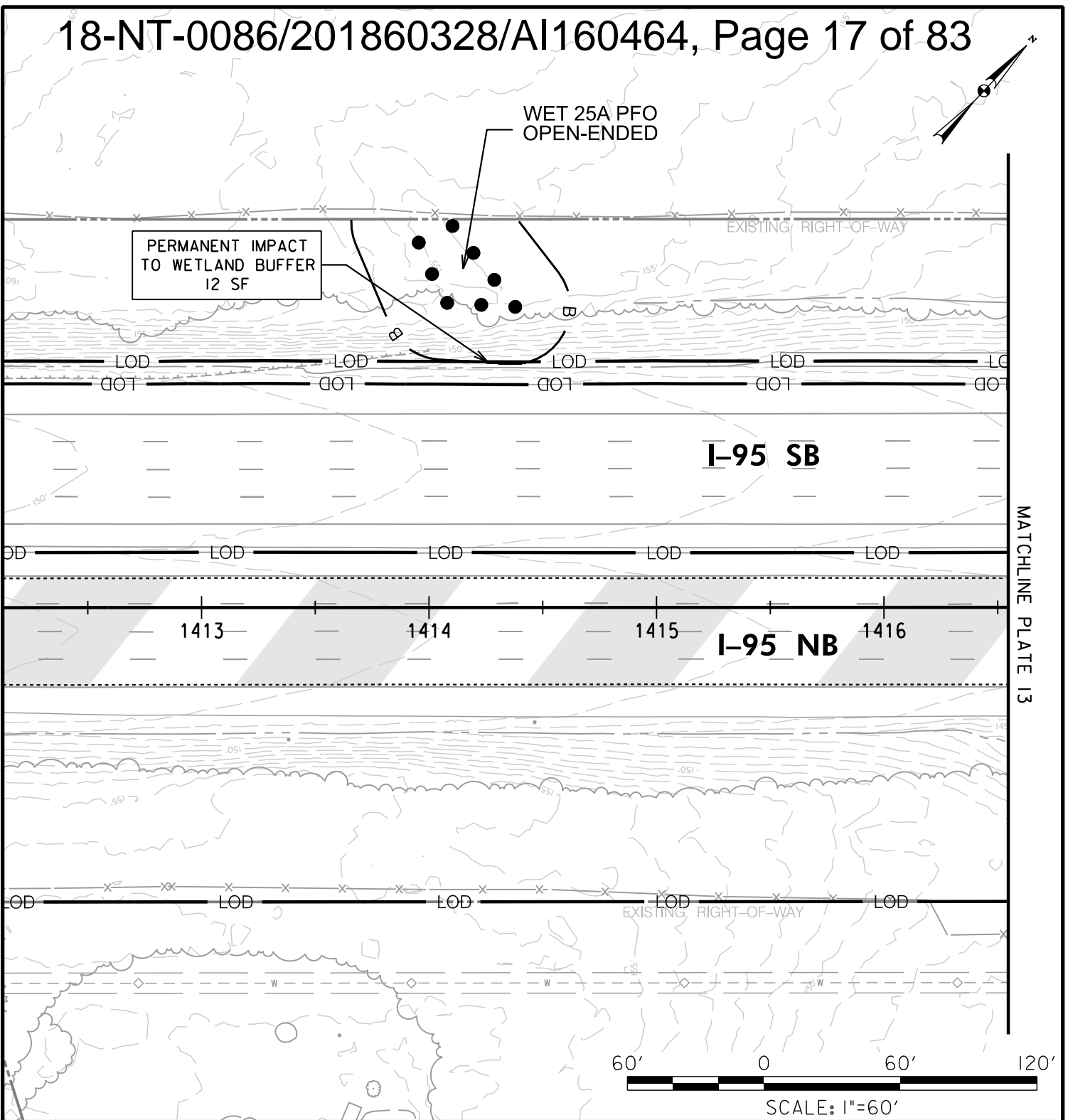
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 11 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY		PERMANENT	
		0 SF		0 SF
PFO WETLAND		0 SF		0 SF
PSS WETLAND		0 SF		0 SF
PEM WETLAND		0 SF		0 SF
PERENNIAL WUS		0 LF/SF		0 LF/SF
INTERMITTENT WUS		0 LF/SF		0 LF/SF
EPHEMERAL WUS		0 LF/SF		0 LF/SF
WETLAND BUFFER		0 SF		12 SF
100-YEAR FLOODPLAIN		0 SF		0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

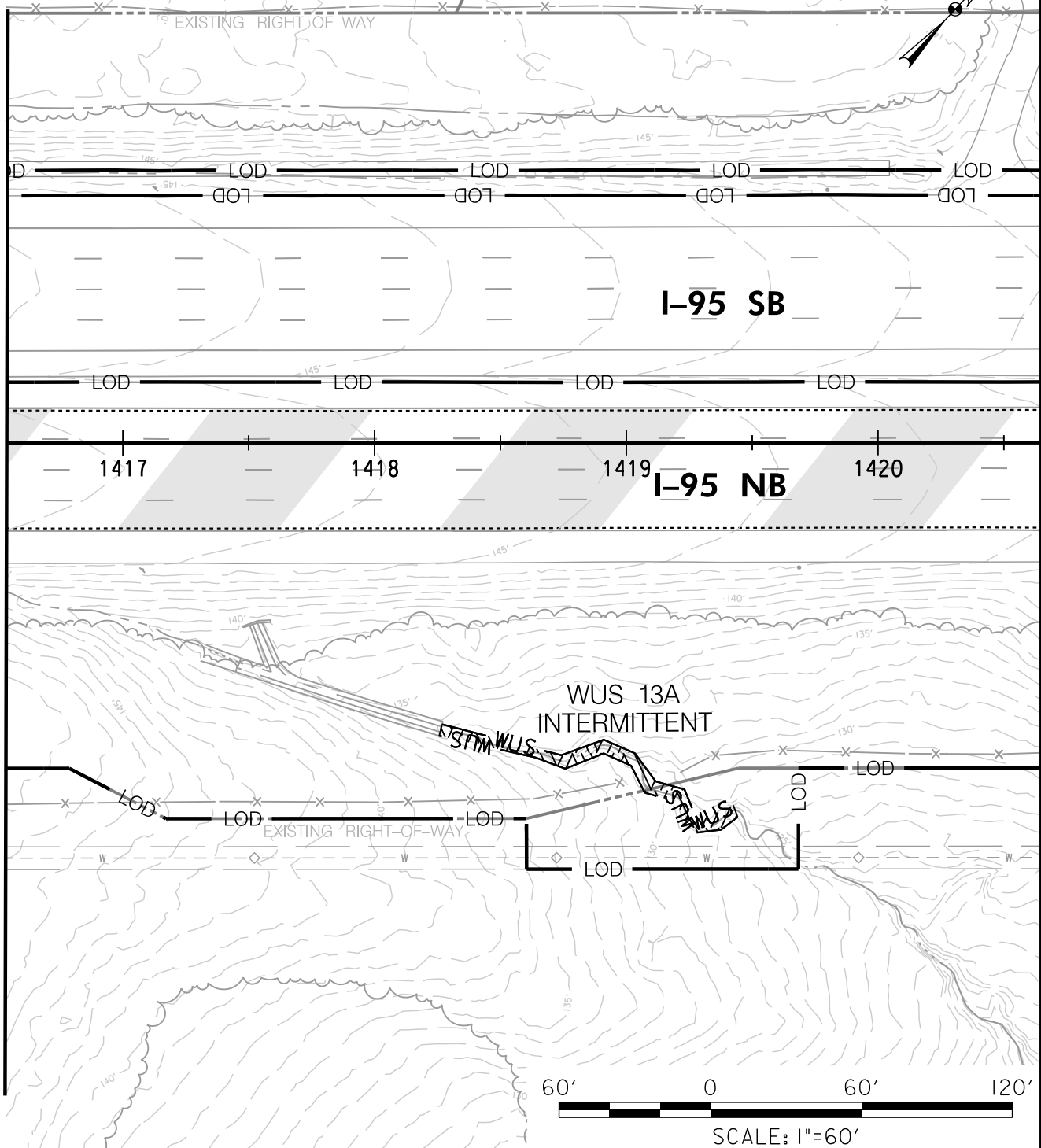
SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 12 OF 27

MATCHLINE PLATE 12



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	136/654 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

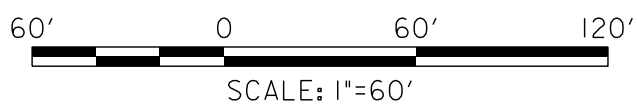
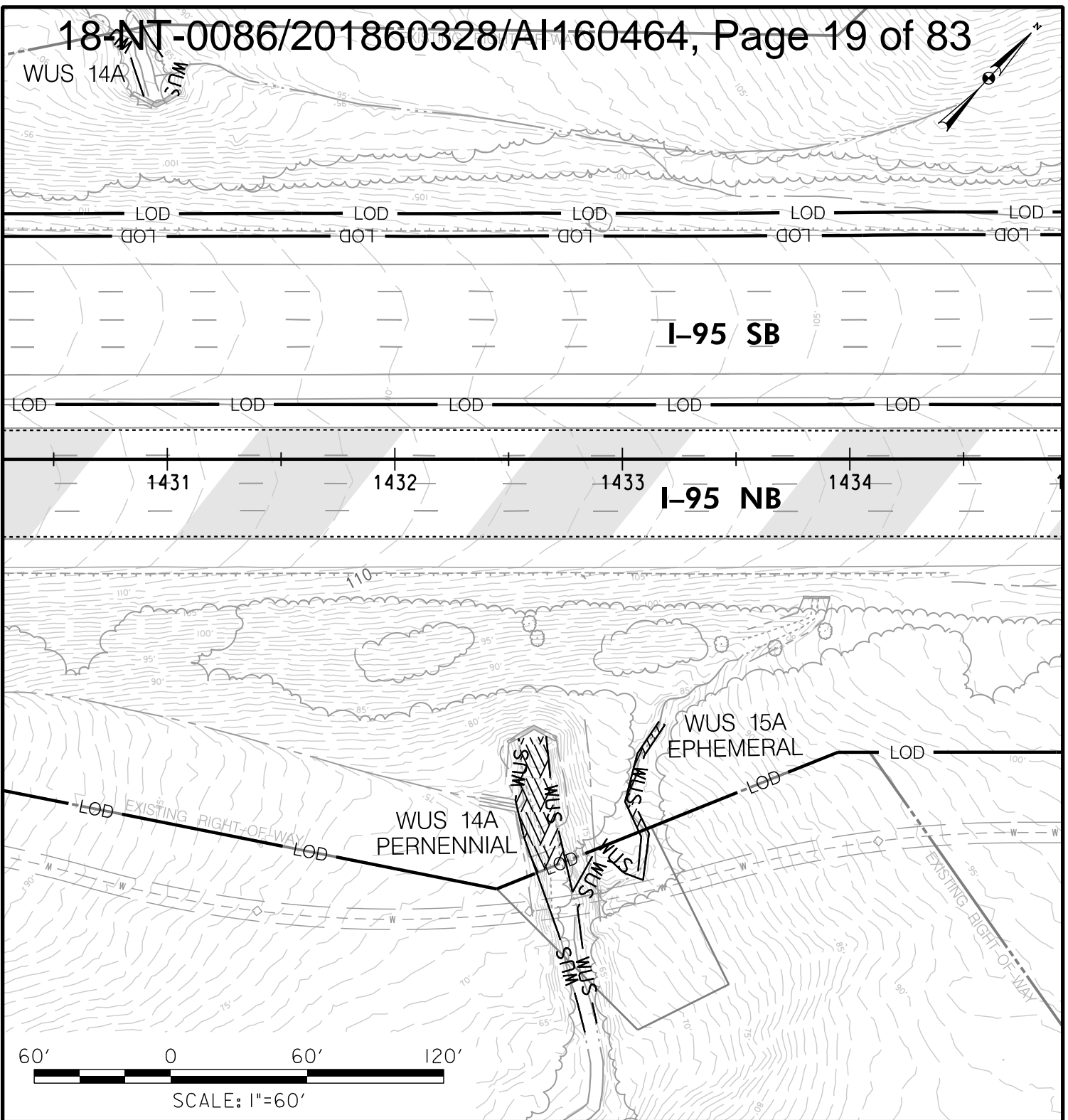
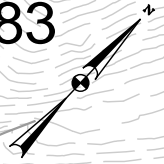
SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 13 OF 27

WUS 14A



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	58/830 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	52/170 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



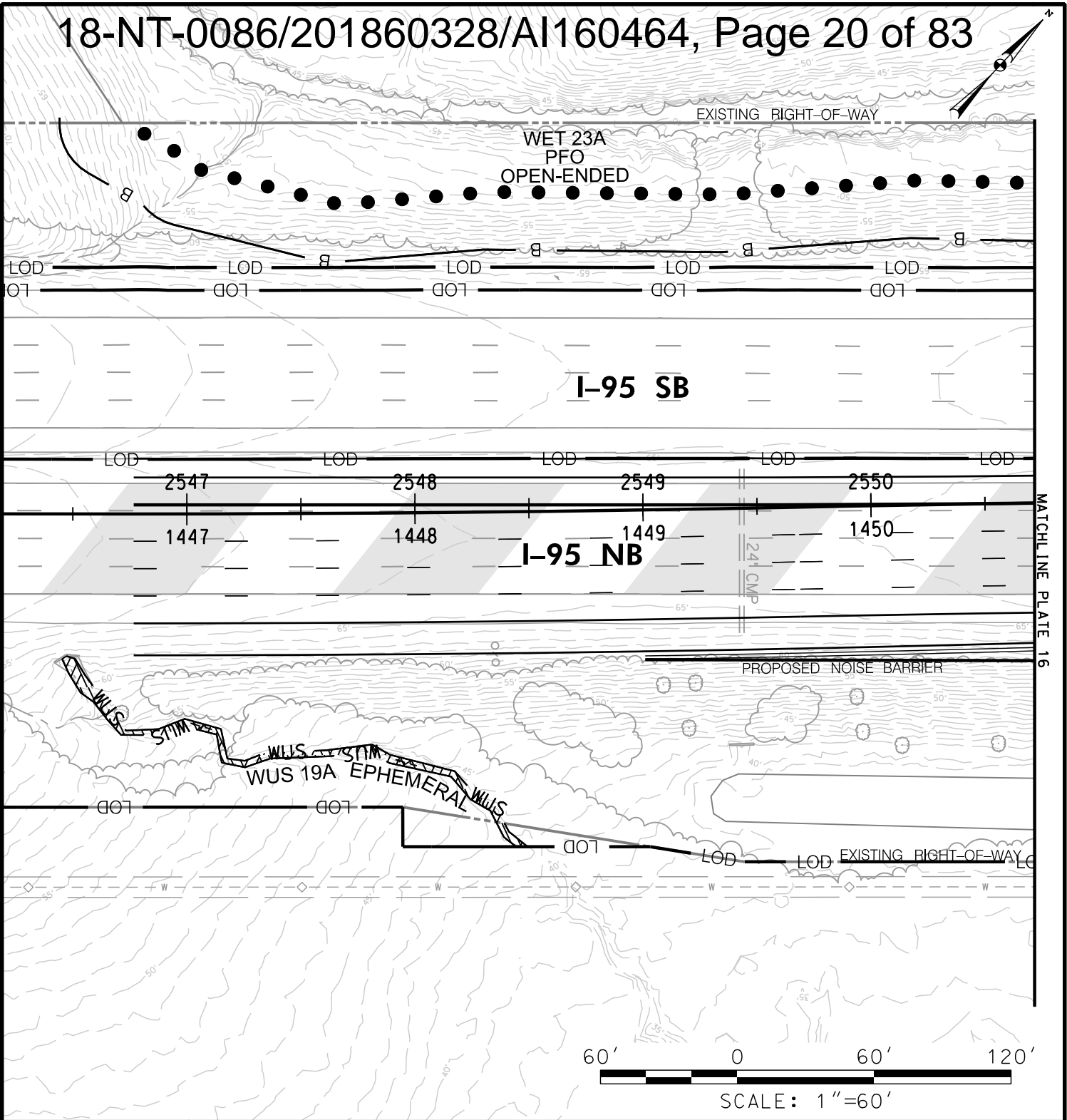
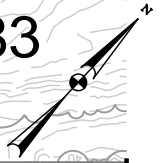
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 14 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	245/768 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



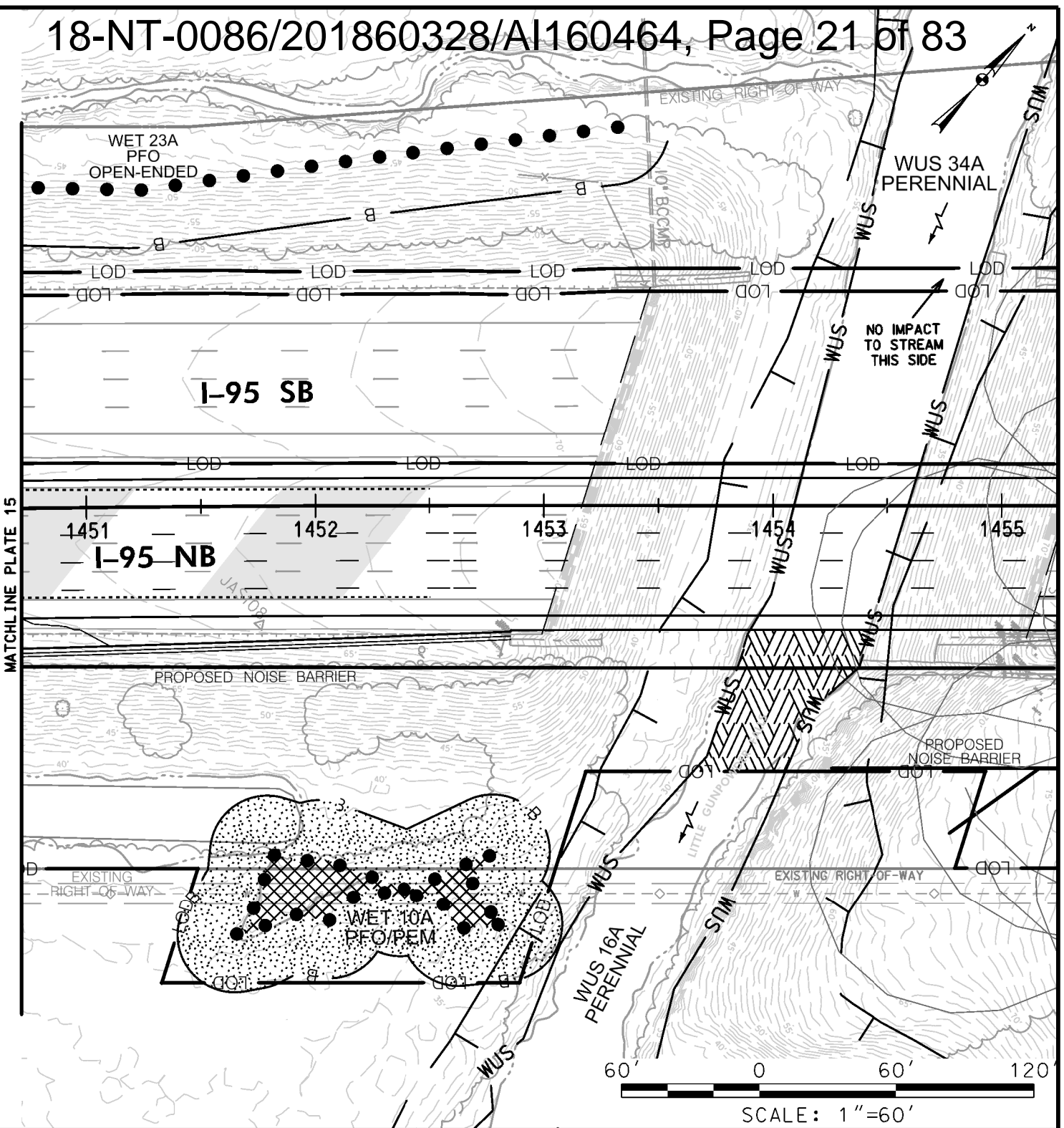
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 15 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM/PFO WETLAND	0 SF	1670 SF
PERENNIAL WUS	0 LF/SF	66/2,740 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	9,907 SF
100-YEAR FLOODPLAIN	0 SF	7,621 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



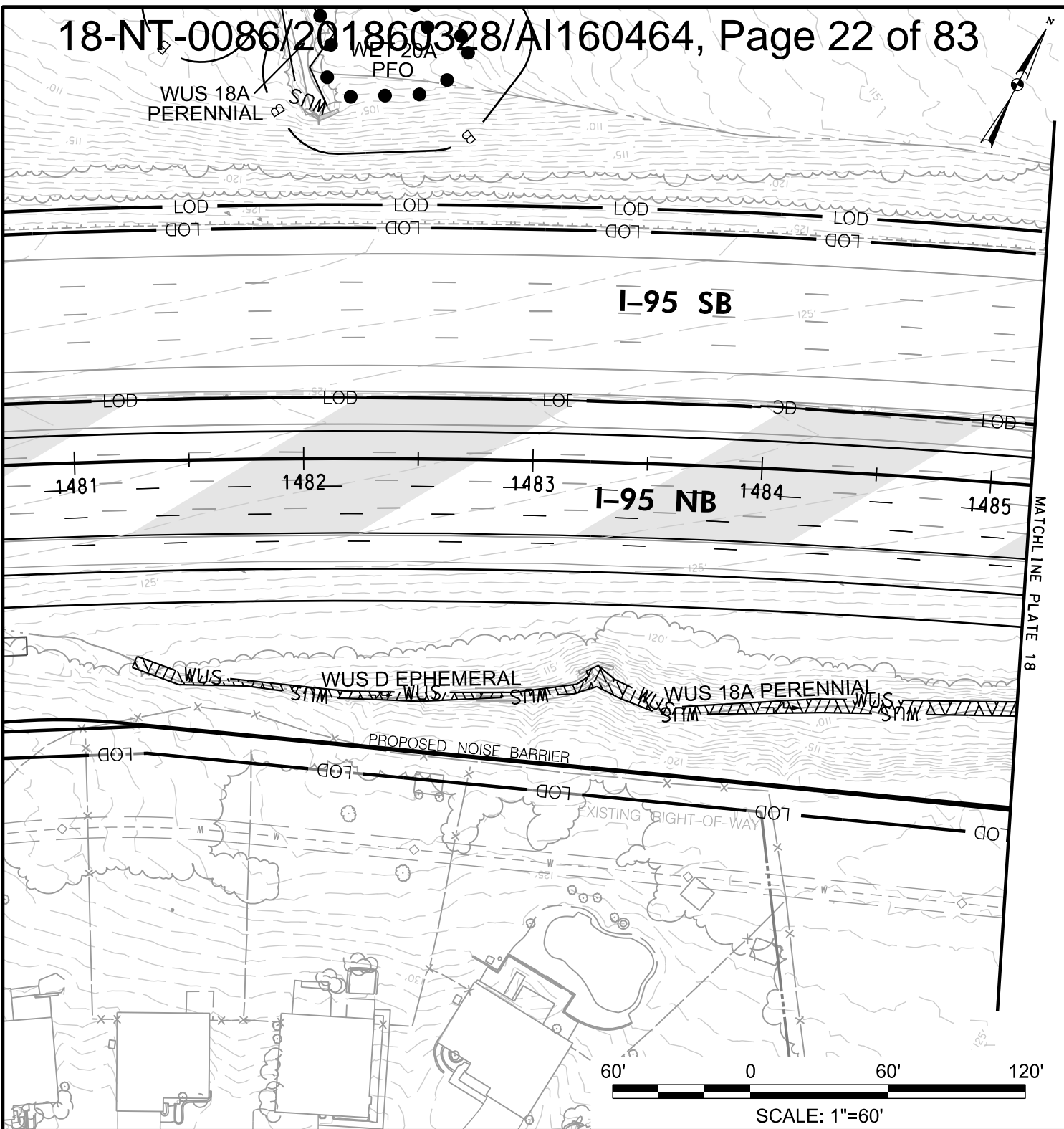
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3013, KH-3014

DATE: MAY 2018

PLATE 16 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	192/1,042 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	202/703 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



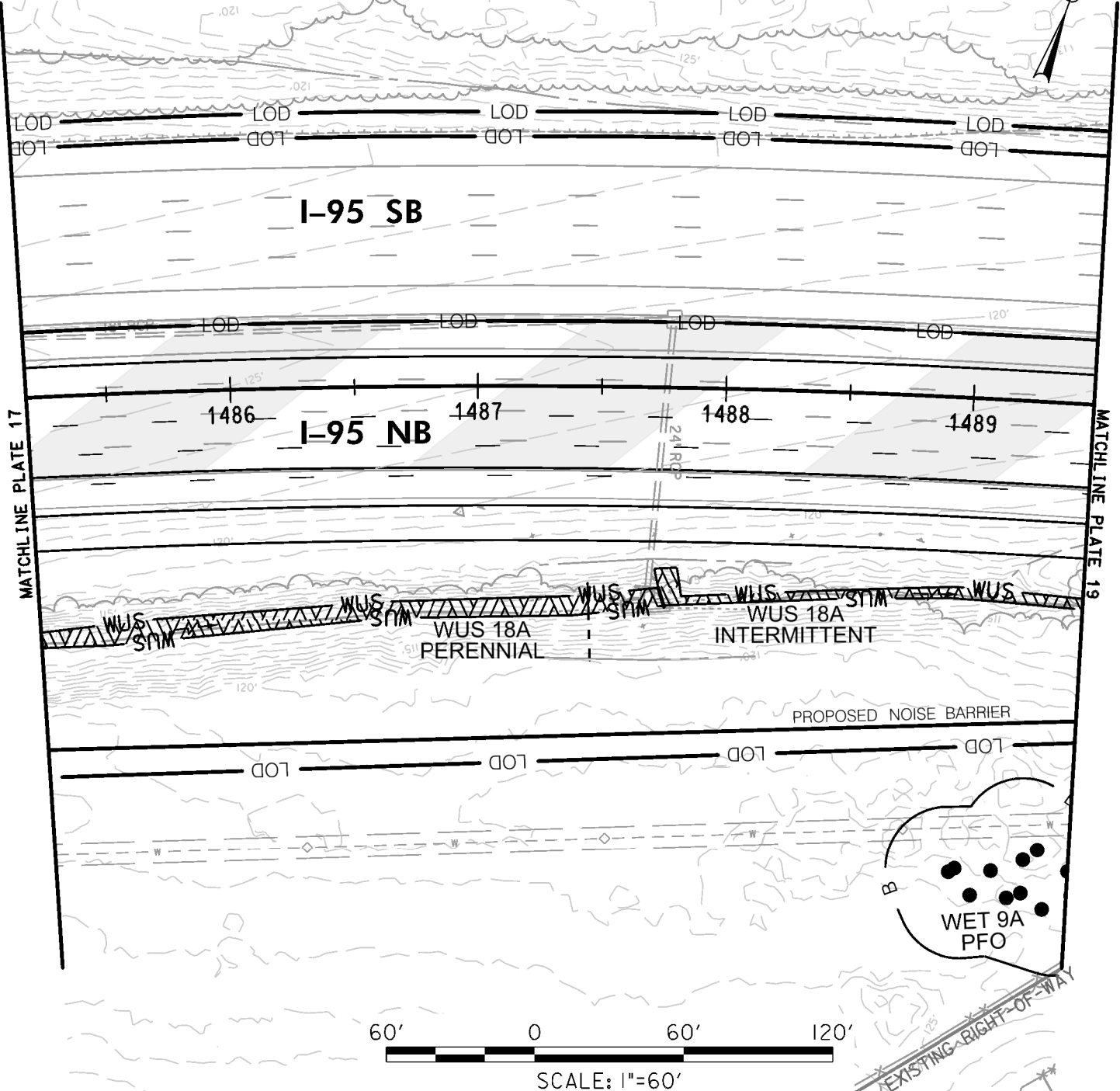
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 17 OF 27



IMPACTS ON THIS PLATE

	IMPACTS ON THIS PLATE	
	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	251/1,894 LF/SF
INTERMITTENT WUS	0 LF/SF	179/769 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



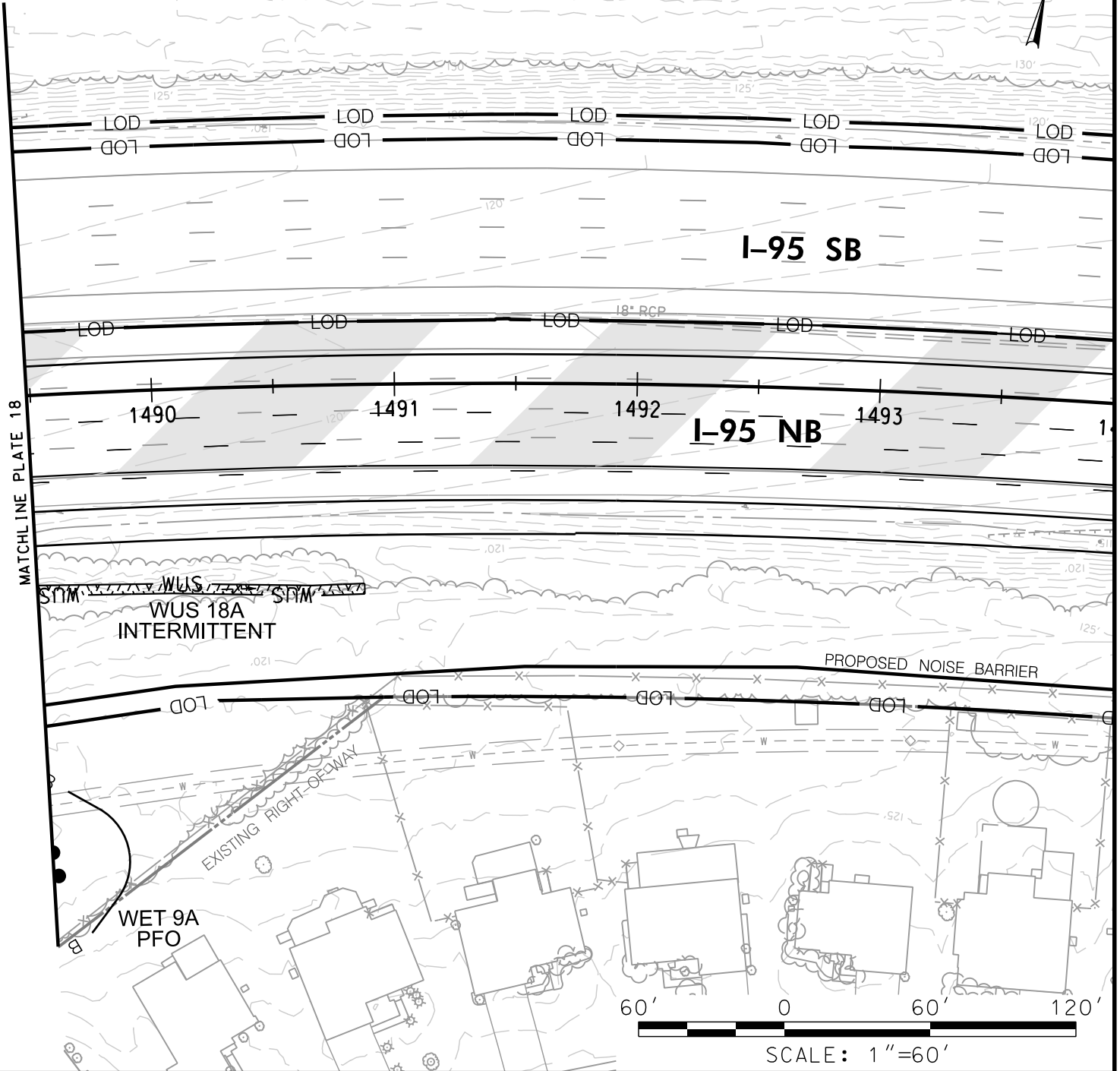
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 18 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY		PERMANENT	
		0 SF		0 SF
PFO WETLAND		0 SF		0 SF
PSS WETLAND		0 SF		0 SF
PEM WETLAND		0 SF		0 SF
PERENNIAL WUS		0 LF/SF		0 LF/SF
INTERMITTENT WUS		0 LF/SF	135/559	LF/SF
EPHEMERAL WUS		0 LF/SF		0 LF/SF
WETLAND BUFFER		0 SF		0 SF
100-YEAR FLOODPLAIN		0 SF		0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



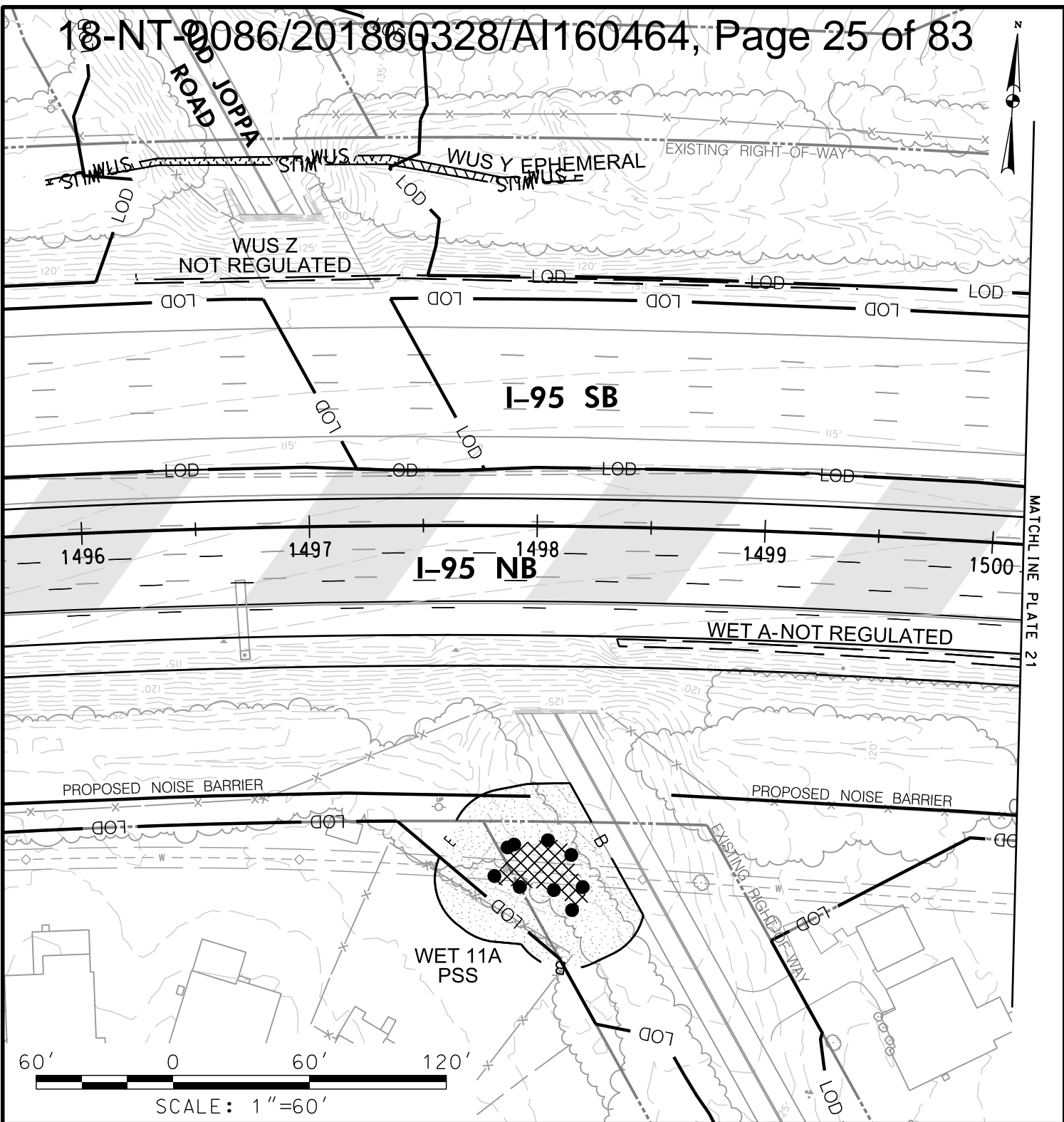
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 19 OF 27



MATCH LINE PLATE 21

IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	728 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	237/746 LF/SF
WETLAND BUFFER	0 SF	4,473 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



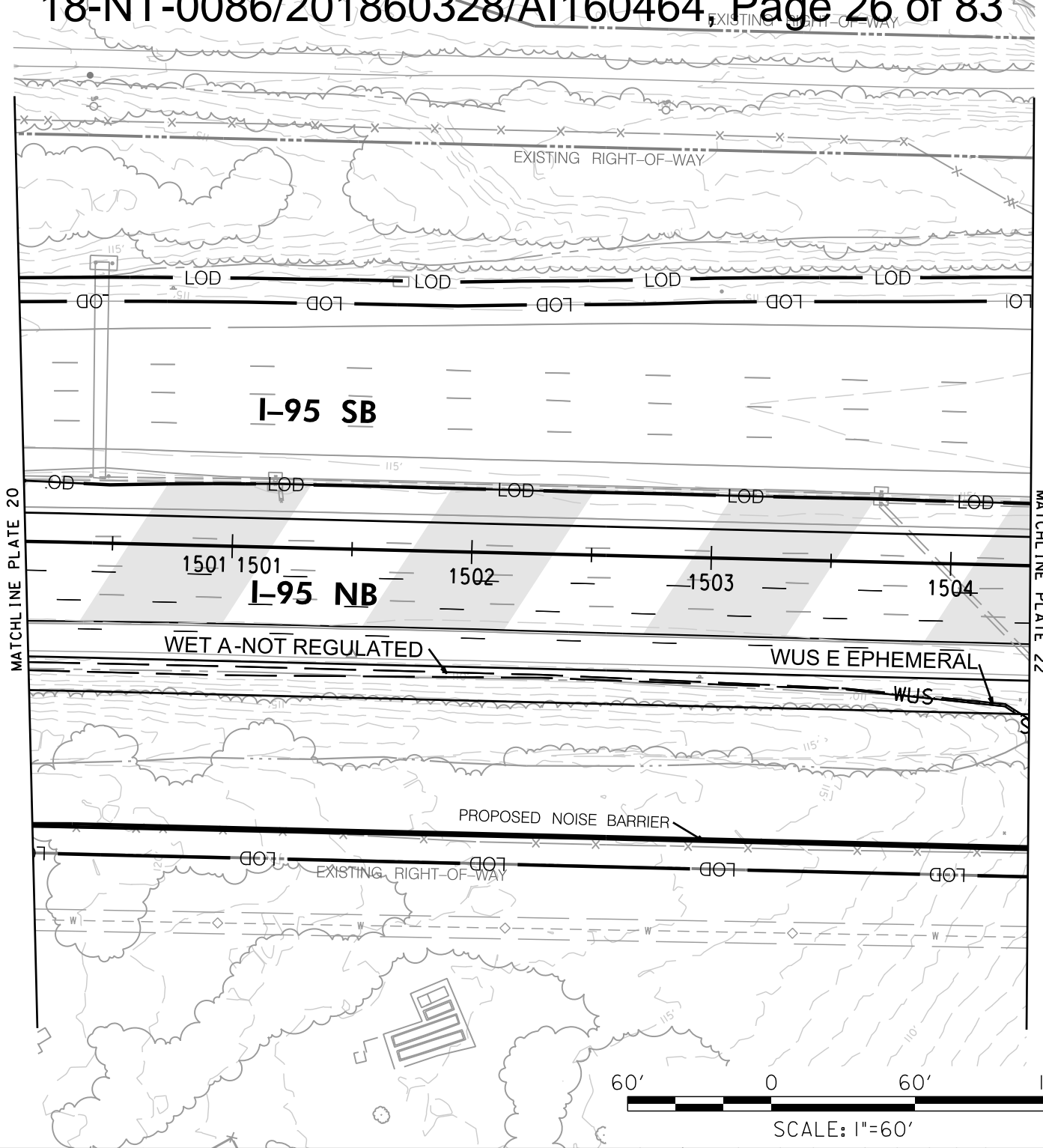
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: 3014, 3009, 3015, 3013

DATE: MAY 2018

PLATE 20 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	80/60 LF/SF
WETLAND BUFFER	0 SF	0 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



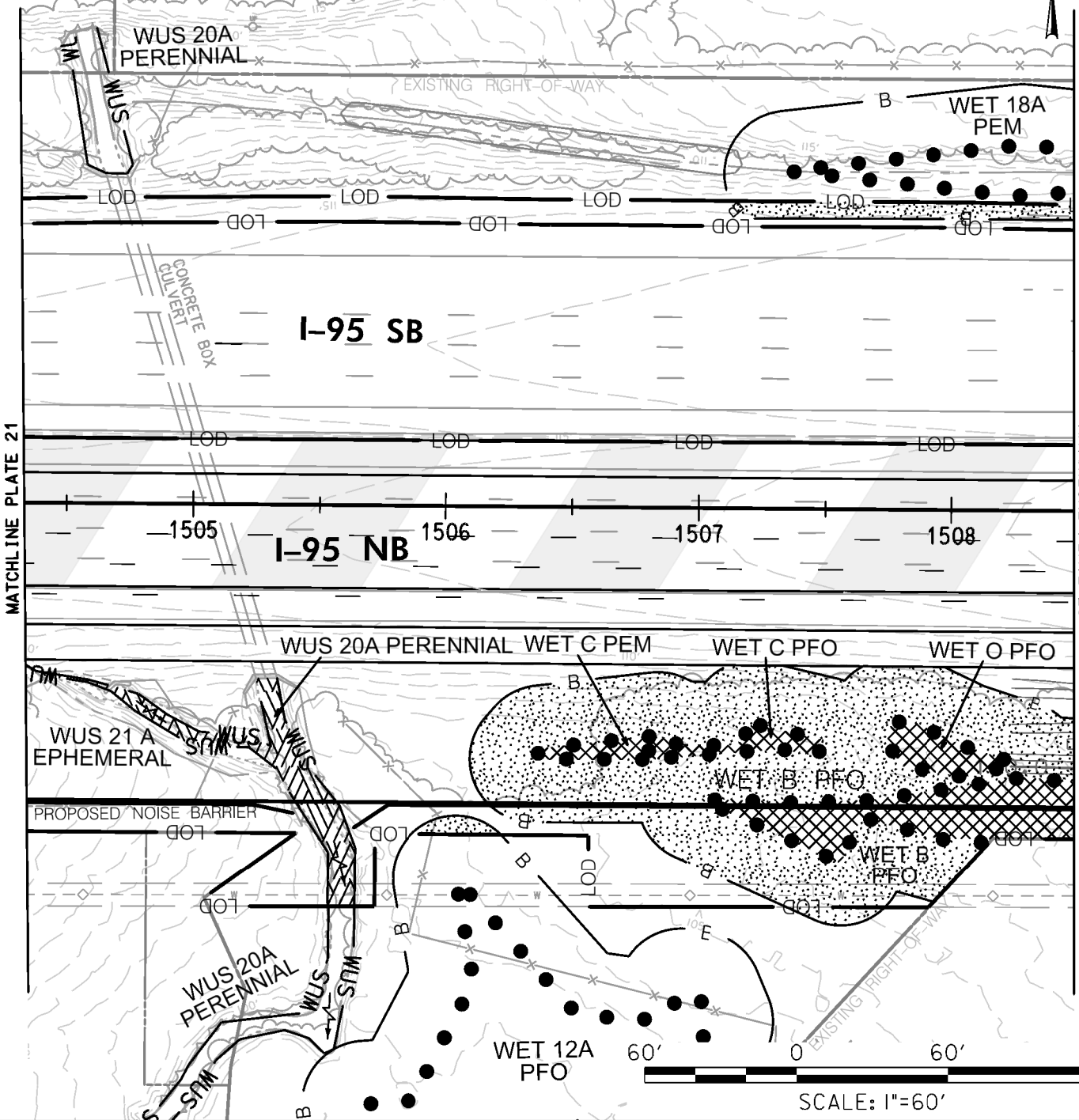
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3014, KH-3009, KH-3013

DATE: MAY 2018

PLATE 21 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	3,341 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	293 SF
PERENNIAL WUS	0 LF/SF	97/1,045 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	106/410 LF/SF
WETLAND BUFFER	0 SF	14,383 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



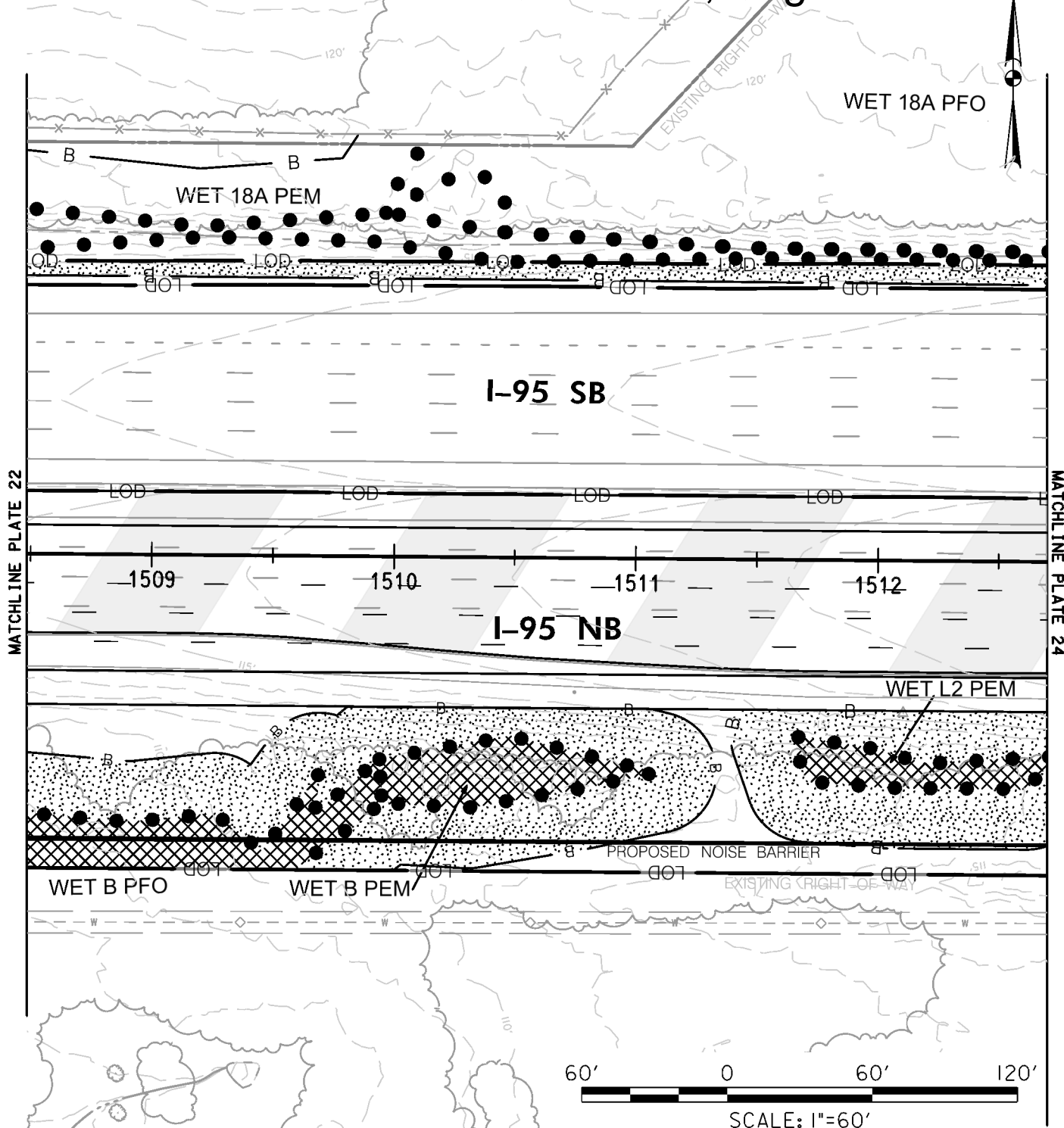
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3013, KH-3014

DATE: MAY 2018

PLATE 22 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	2,872 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	3,437 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	19,279 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



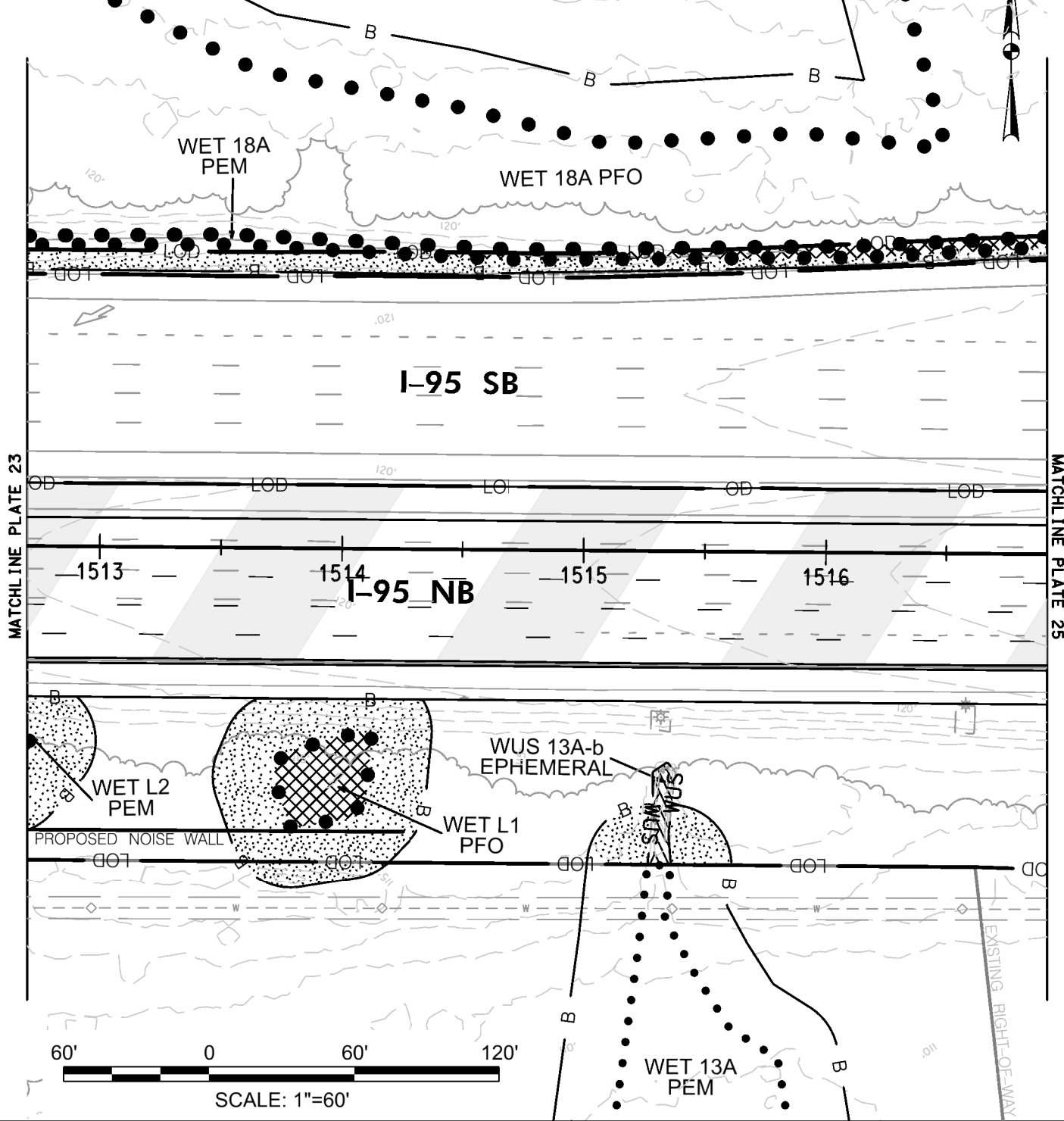
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3013, KH-3014

DATE: MAY 2018

PLATE 23 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	1,167 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	944 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	42/336 LF/SF
WETLAND BUFFER	0 SF	9,512 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



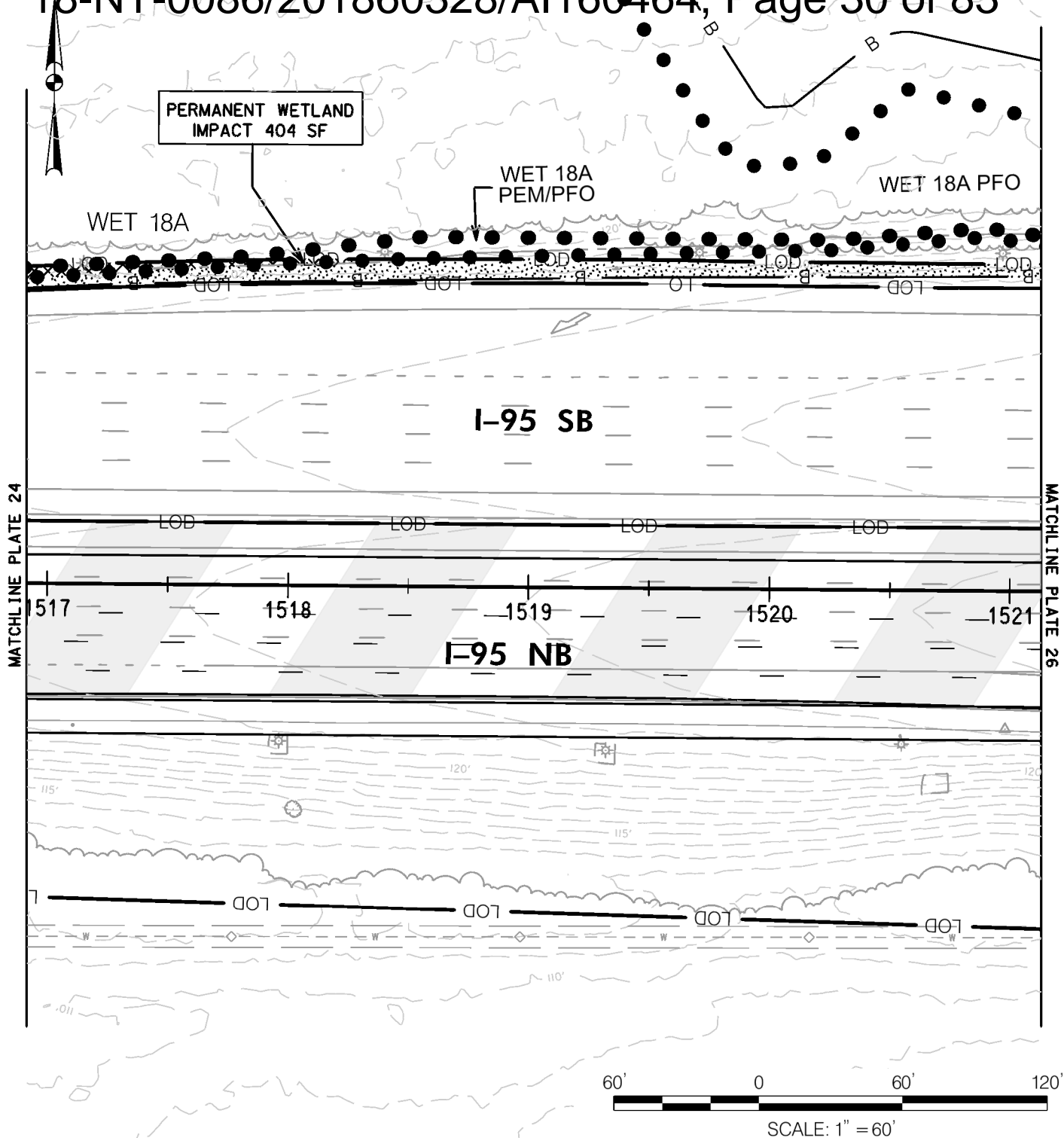
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 24 OF 27



IMPACTS ON THIS PLATE

	IMPACTS ON THIS PLATE	
	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	404 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	2,788 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



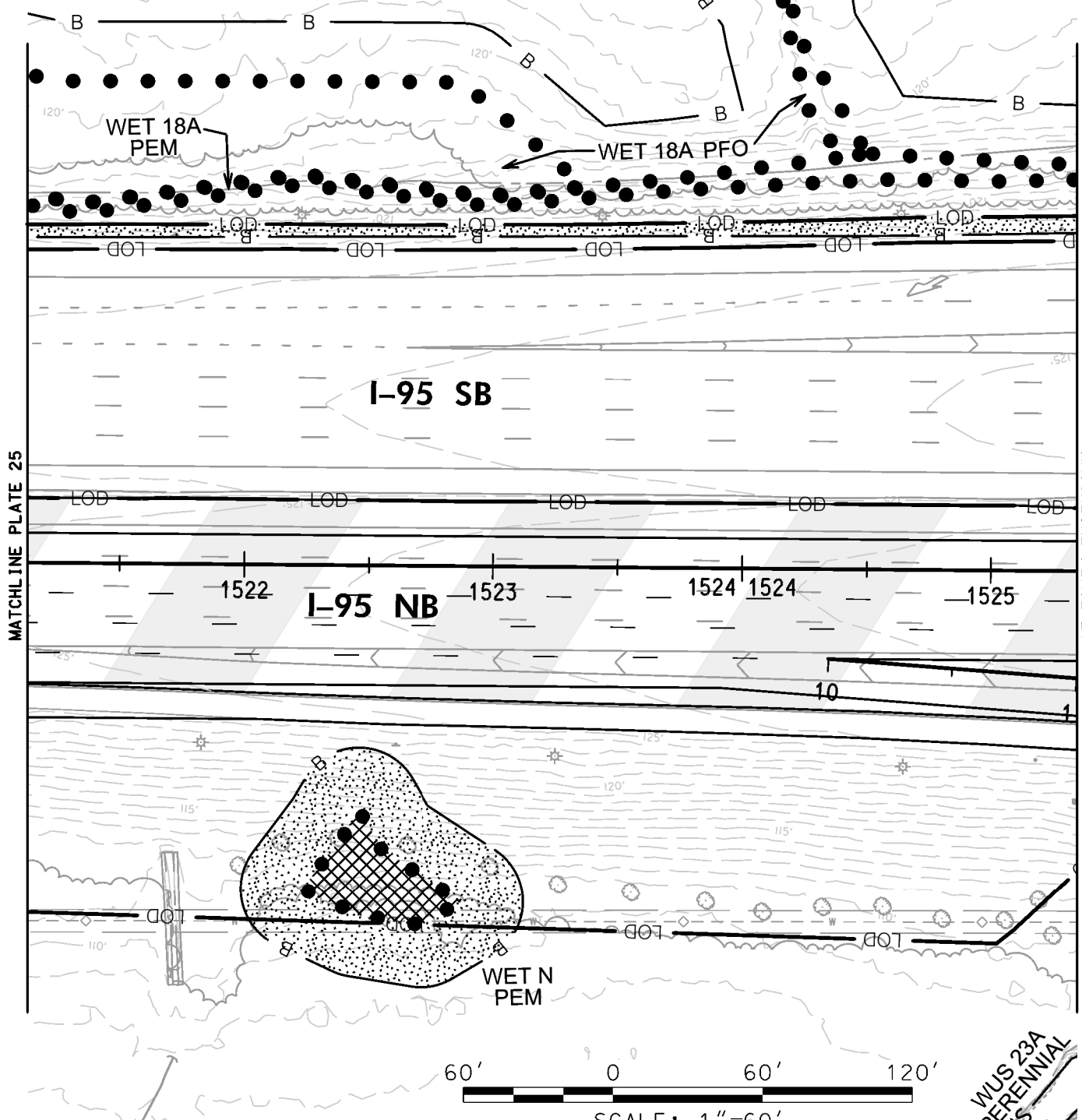
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 25 OF 27



IMPACTS ON THIS PLATE

	IMPACTS ON THIS PLATE	
	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	1,318 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	8,397 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



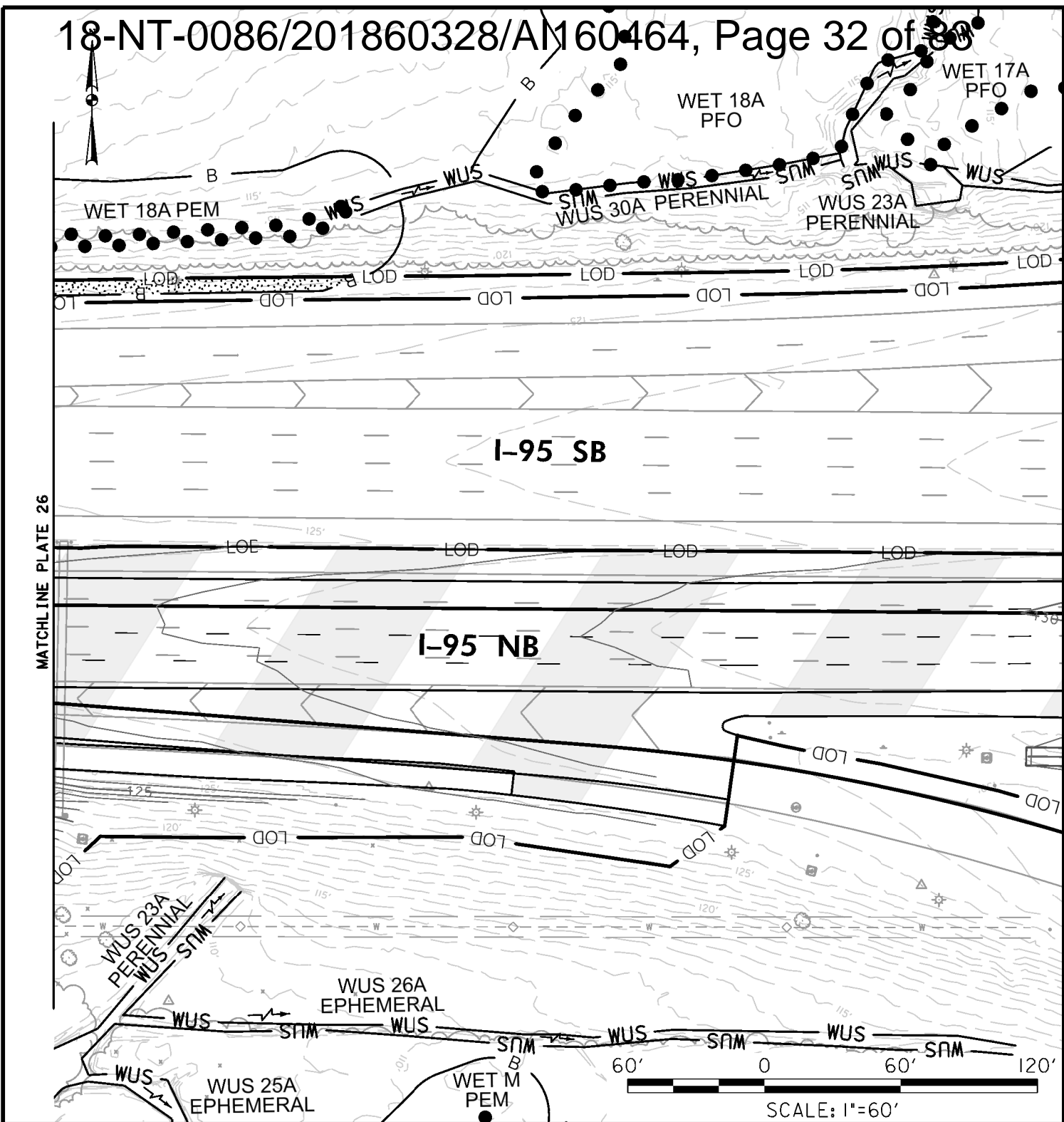
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 26 OF 27



IMPACTS ON THIS PLATE

	TEMPORARY		PERMANENT	
PFO WETLAND	0	SF	0	SF
PSS WETLAND	0	SF	0	SF
PEM WETLAND	0	SF	0	SF
PERENNIAL WUS	0	LF/SF	0	LF/SF
INTERMITTENT WUS	0	LF/SF	0	LF/SF
EPHEMERAL WUS	0	LF/SF	0	LF/SF
WETLAND BUFFER	0	SF	832	SF
100-YEAR FLOODPLAIN	0	SF	0	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 NEW FORGE ROAD TO MD 152
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 BALTIMORE & HARFORD COUNTIES, MARYLAND



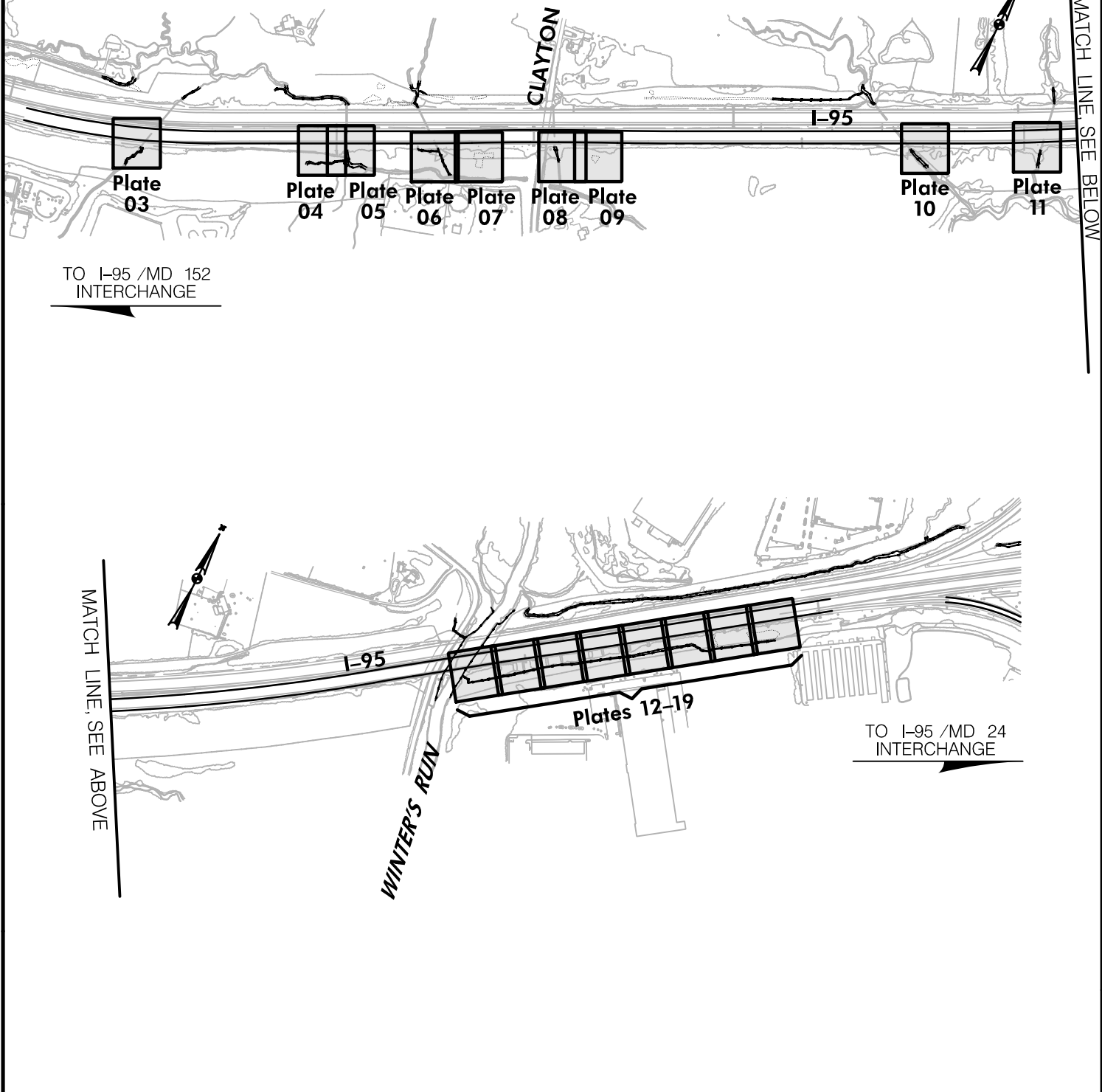
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 27 OF 27



TOTAL IMPACTS

	TEMPORARY	PERMANENT
PFO WETLAND	SF	6,840 SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	2,197 SF
PERENNIAL WUS	LF/SF	334 LF/2,289 SF
INTERMITTENT WUS	LF/SF	1,582 LF/9,317 SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	20,376 SF
100-YEAR FLOODPLAIN	SF	60,464 SF

WETLAND IMPACT KEY SHEET

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**




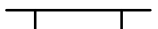


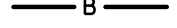




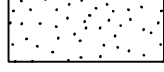

SCALE: 1"=700'


CONTRACT NO.: KH3010-0000

DATE: MAY 2018

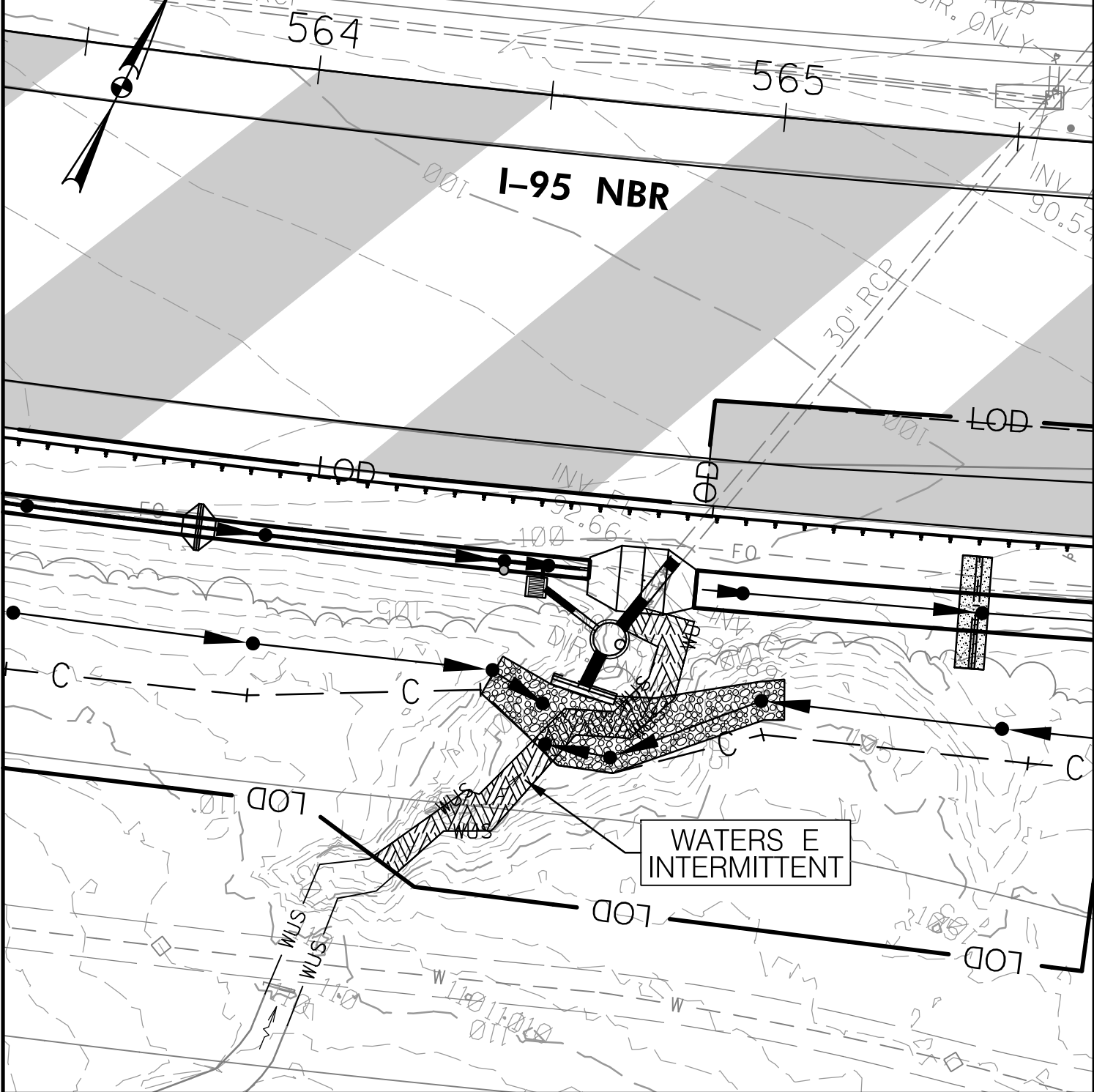
PLATE 1 OF 19

LEGEND

LIMIT OF DISTURBANCE	
PARKLAND BOUNDARY	
CRITICAL AREA BOUNDARY	
100-YEAR FLOODPLAIN	
WUS BOUNDARY	
WETLAND BOUNDARY	
WETLAND BUFFER BOUNDARY	
WUS IMPACT TEMPORARY	
WUS IMPACT PERMANENT	
WETLAND IMPACT TEMPORARY	
WETLAND IMPACT PERMANENT	
WETLAND BUFFER IMPACT TEMPORARY	
WETLAND BUFFER IMPACT PERMANENT	

WETLAND IMPACT LEGEND	
I-95 ETL NORTHBOUND EXTENSION MD 152 TO MD 24 JOHN F. KENNEDY MEMORIAL HIGHWAY HARFORD COUNTY, MARYLAND	
	MARYLAND TRANSPORTATION AUTHORITY

FILE: \\balsrv01\2014\2014\4006_MDTAAE2795\Task 41 - I-95 Widening MD 152 to MD 24\Nat.Env\Impact Plates\WT-002-legend.195.dgn
 DATE: Thursday, May 10, 2018 AT 11:50 AM



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	98 LF/602 SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



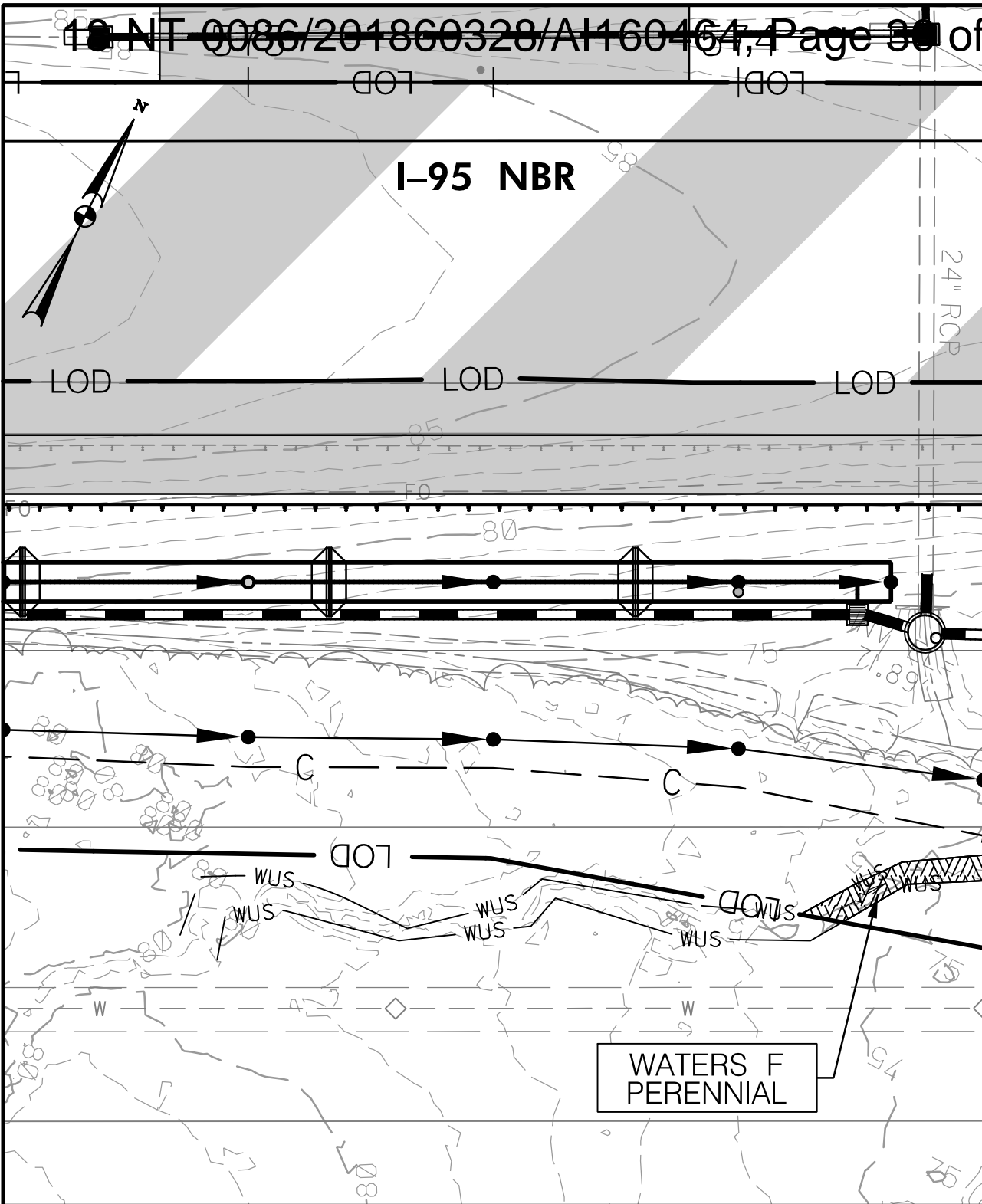
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 3 OF 19



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	35 LF/180 SF
INTERMITTENT WUS	LF/SF	LF/SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



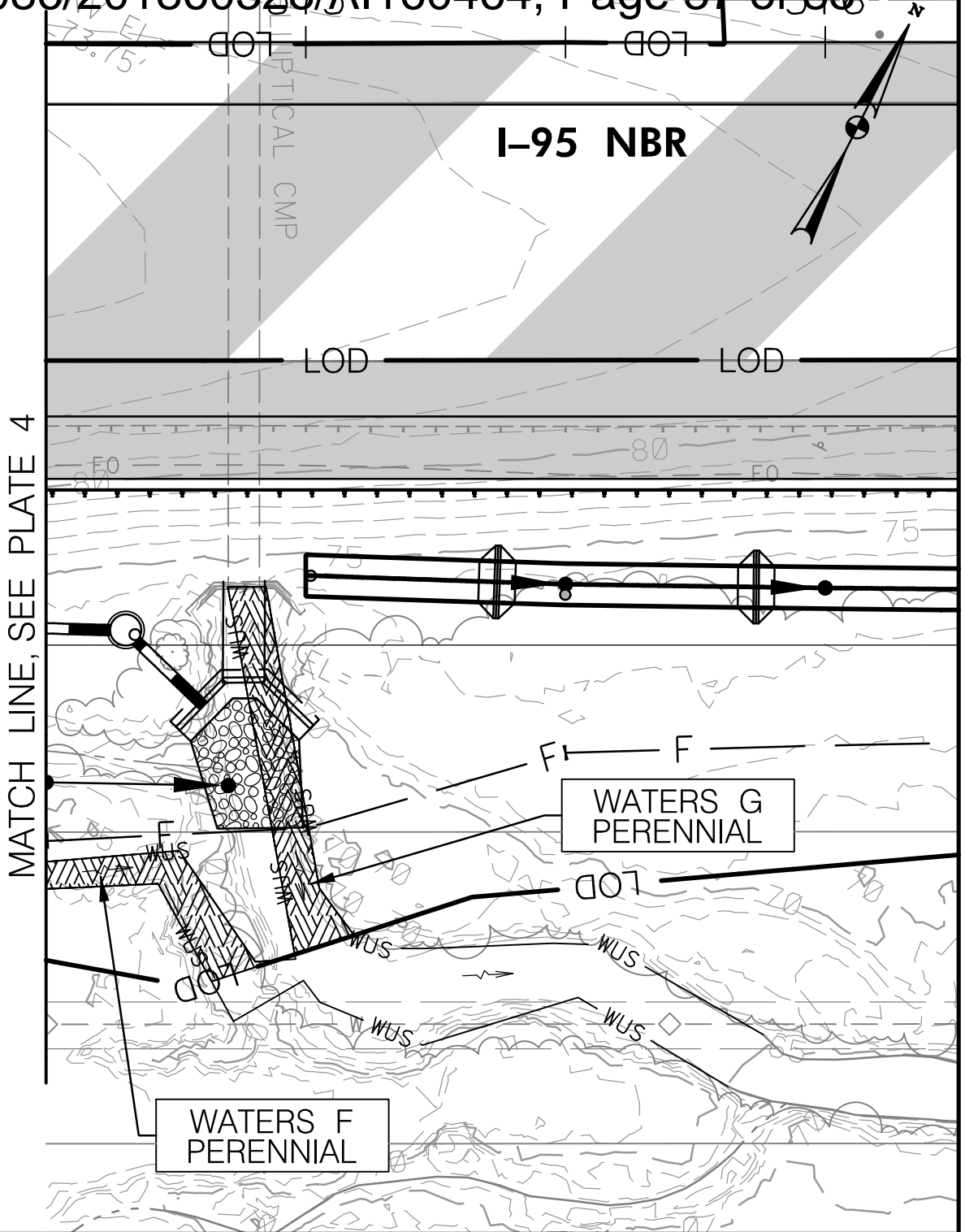
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 4 OF 19



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	119 LF/855 SF
INTERMITTENT WUS	LF/SF	LF/SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

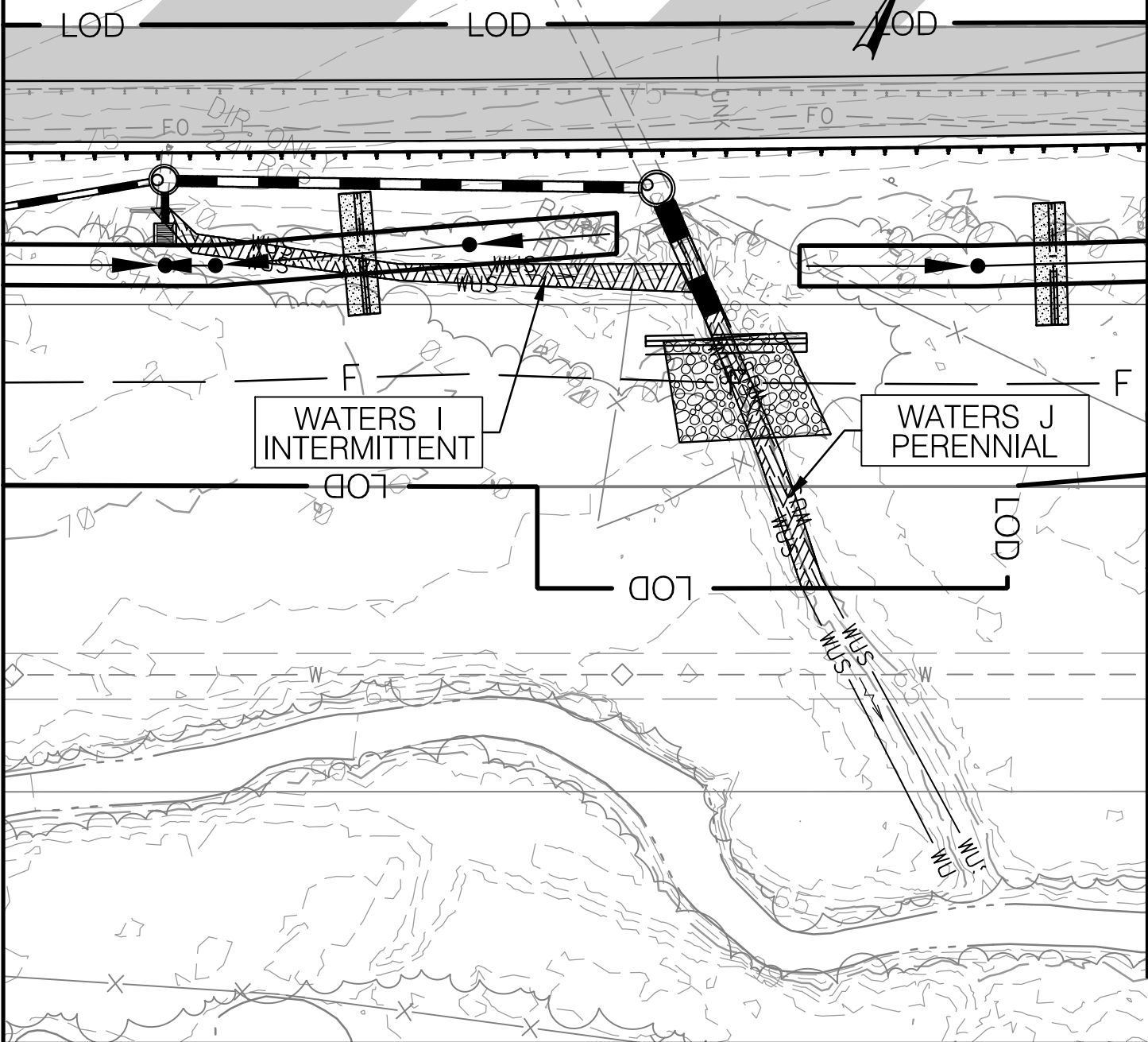
SCALE: 1" = 30'

CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 5 OF 19

I-95 NBR



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	81 LF/311 SF
INTERMITTENT WUS	LF/SF	108 LF/423 SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



MARYLAND
 TRANSPORTATION AUTHORITY

SCALE: 1" = 30'

CONTRACT NO.: KH3010-0000

DATE: MAY 2018

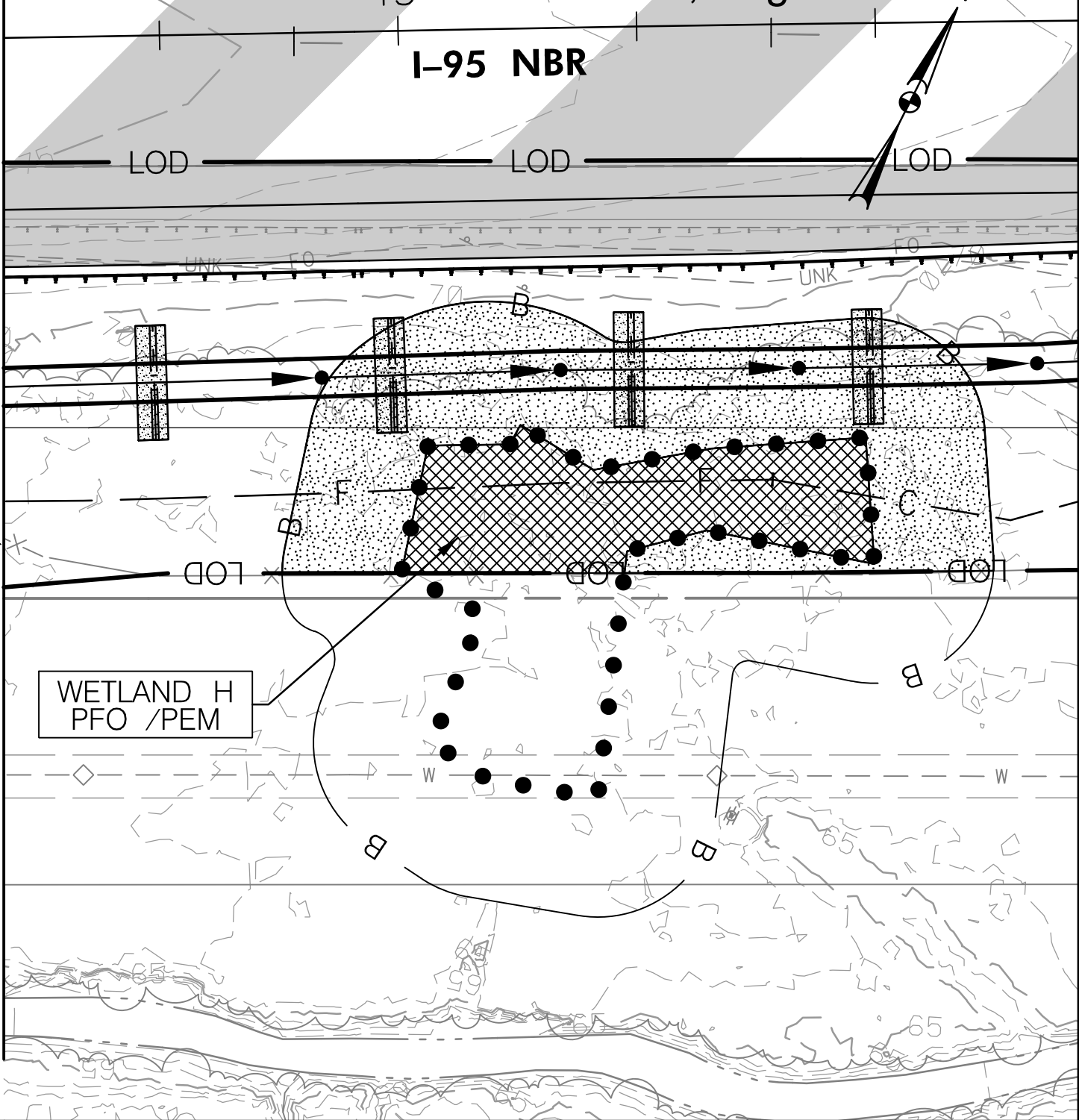
PLATE 6 OF 19

MATCH LINE, SEE PLATE 7

I-95 NBR



MATCH LINE, SEE PLATE 6



WETLAND H
PFO /PEM

IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	2,197 SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	LF/SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	5,135 SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
MD 152 TO MD 24
JOHN F. KENNEDY MEMORIAL HIGHWAY
HARFORD COUNTY, MARYLAND



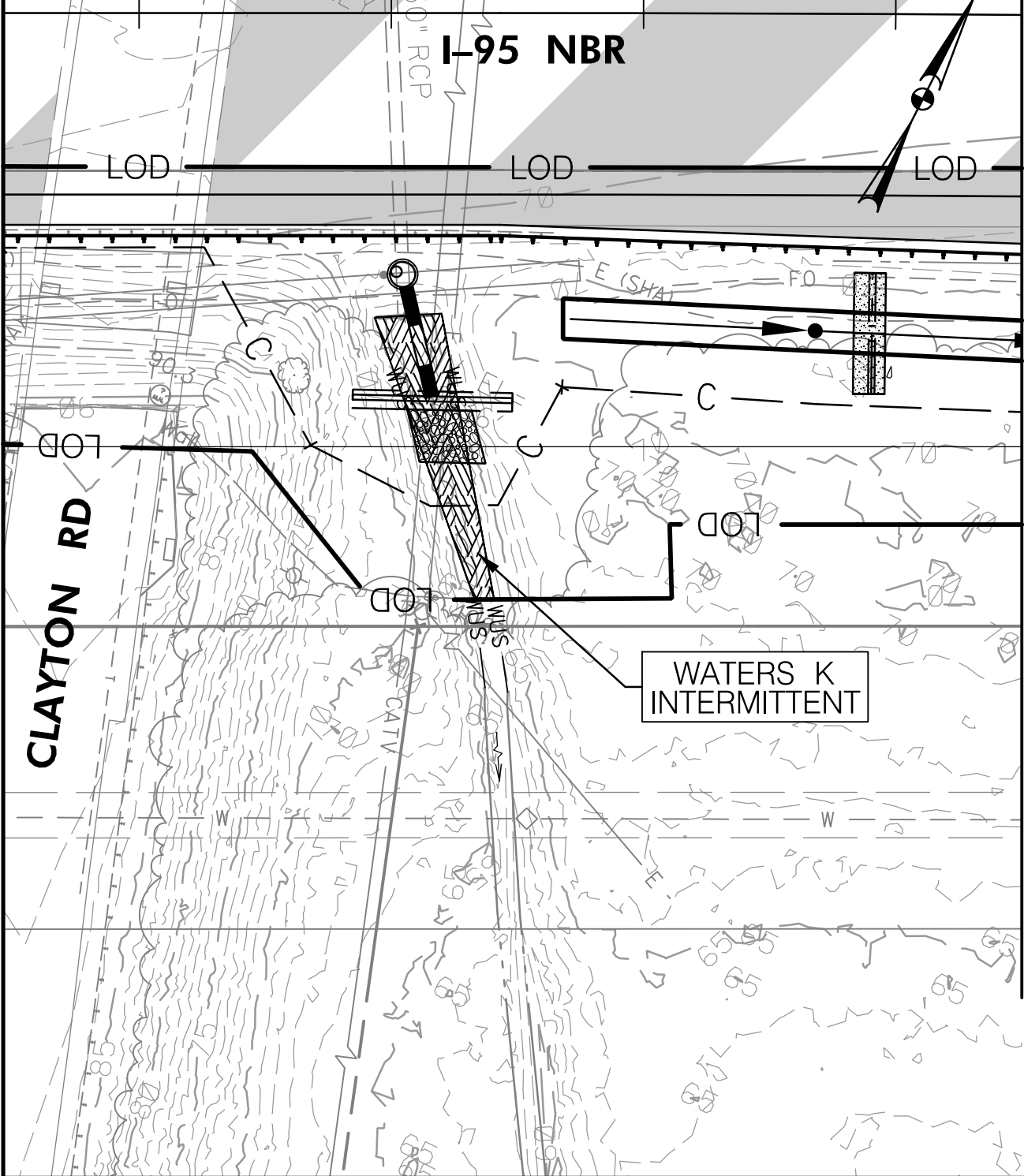
**MARYLAND
TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 7 OF 19



MATCH LINE, SEE PLATE 9

IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	58 LF/487 SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

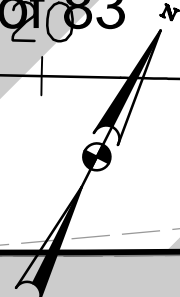
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CONTRACT NO.: KH3010-0000

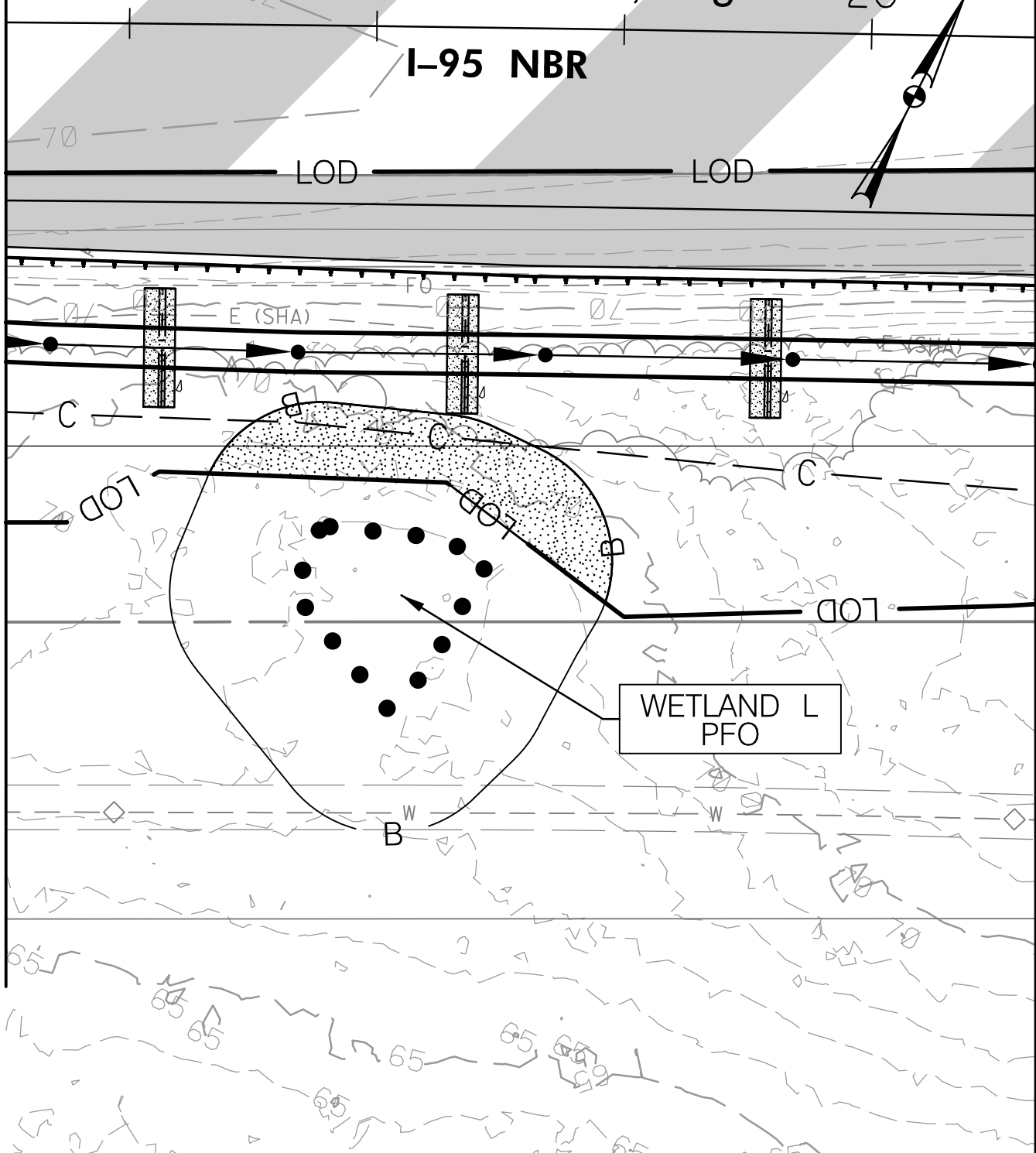
DATE: MAY 2018

PLATE 8 OF 19

I-95 NBR



MATCH LINE, SEE PLATE 8



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	LF/SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	1,247 SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



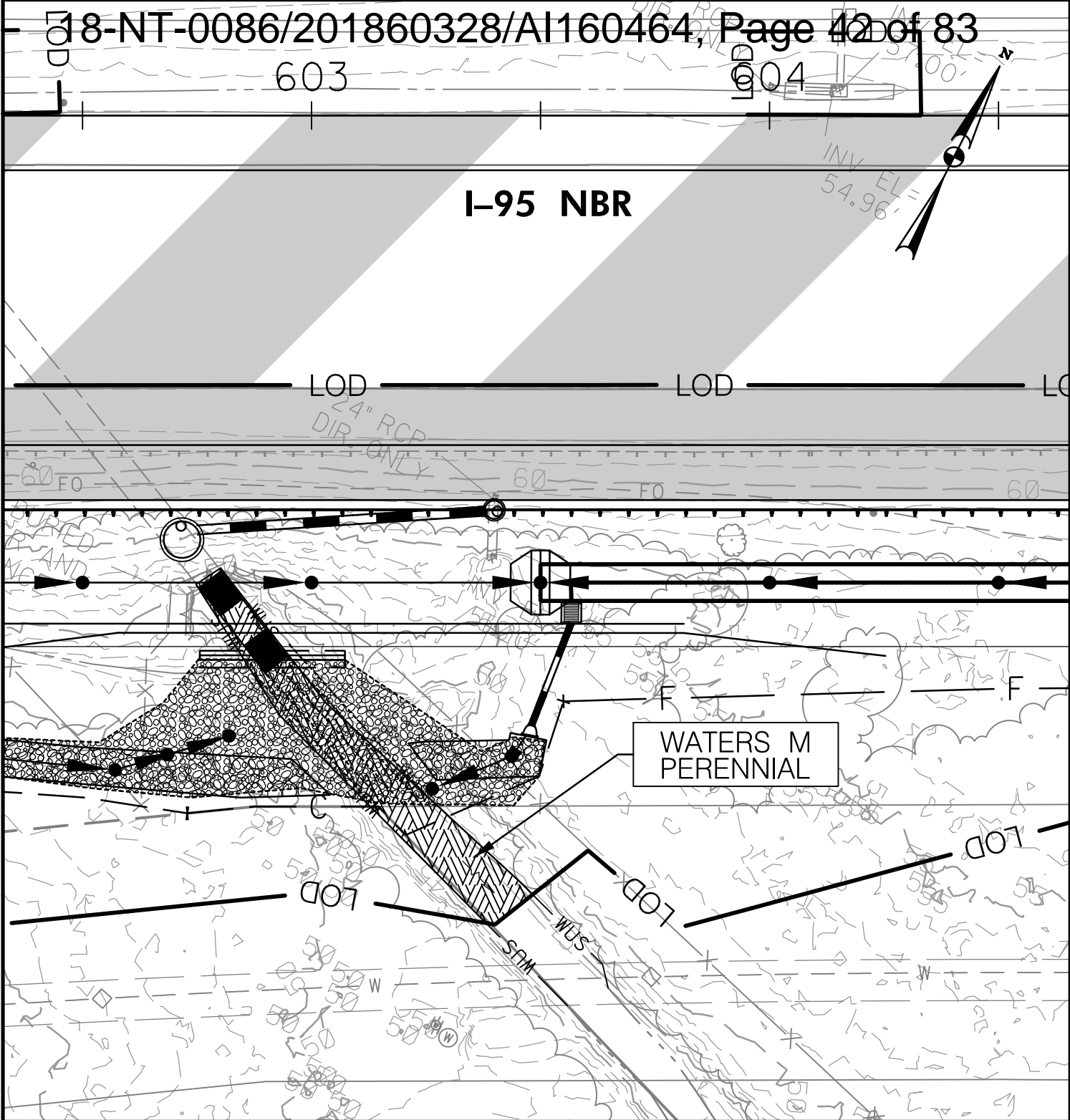
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 9 OF 19



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	99 LF/943 SF
INTERMITTENT WUS	LF/SF	LF/SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



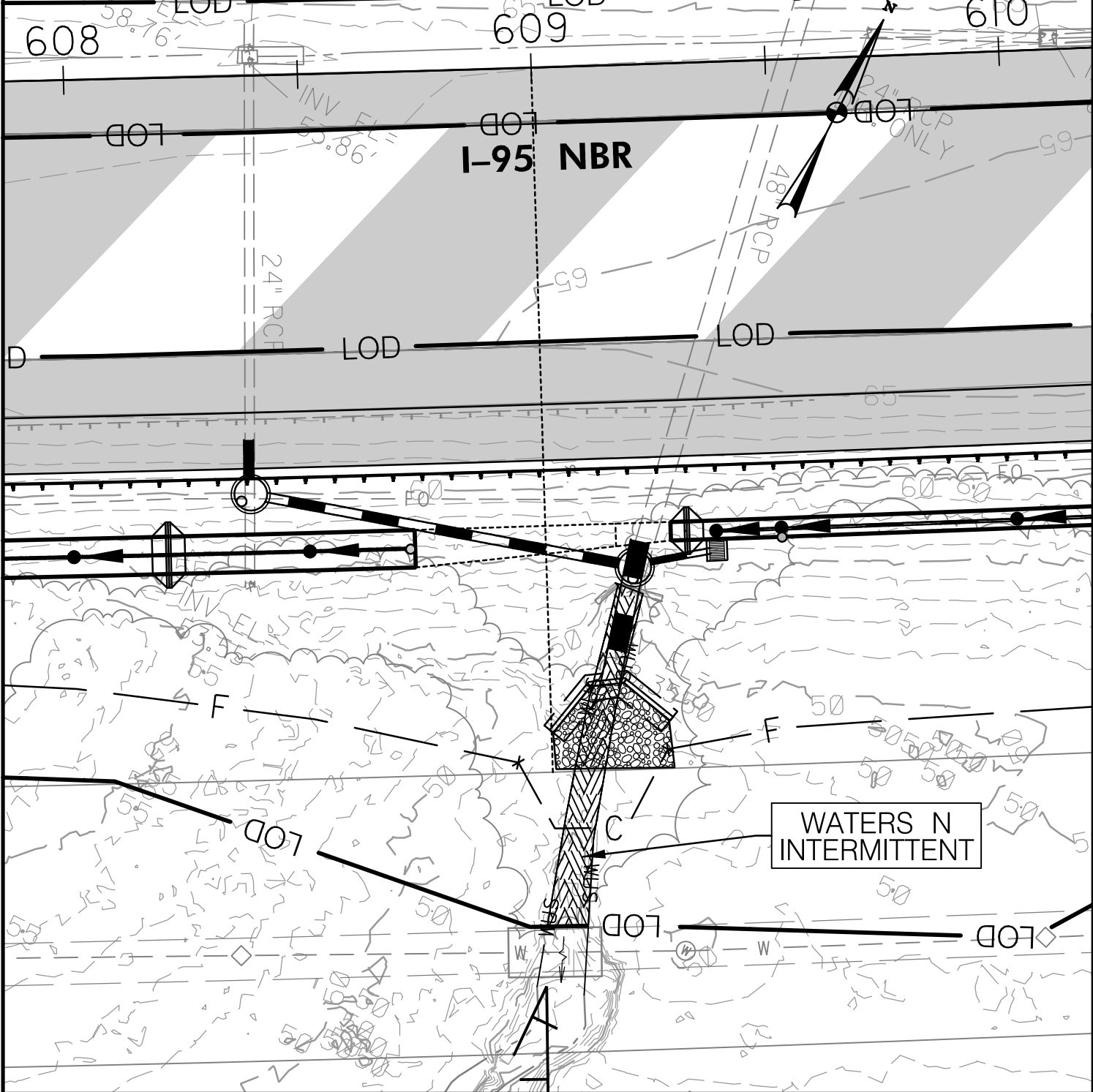
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 10 OF 19



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	73 LF/477 SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



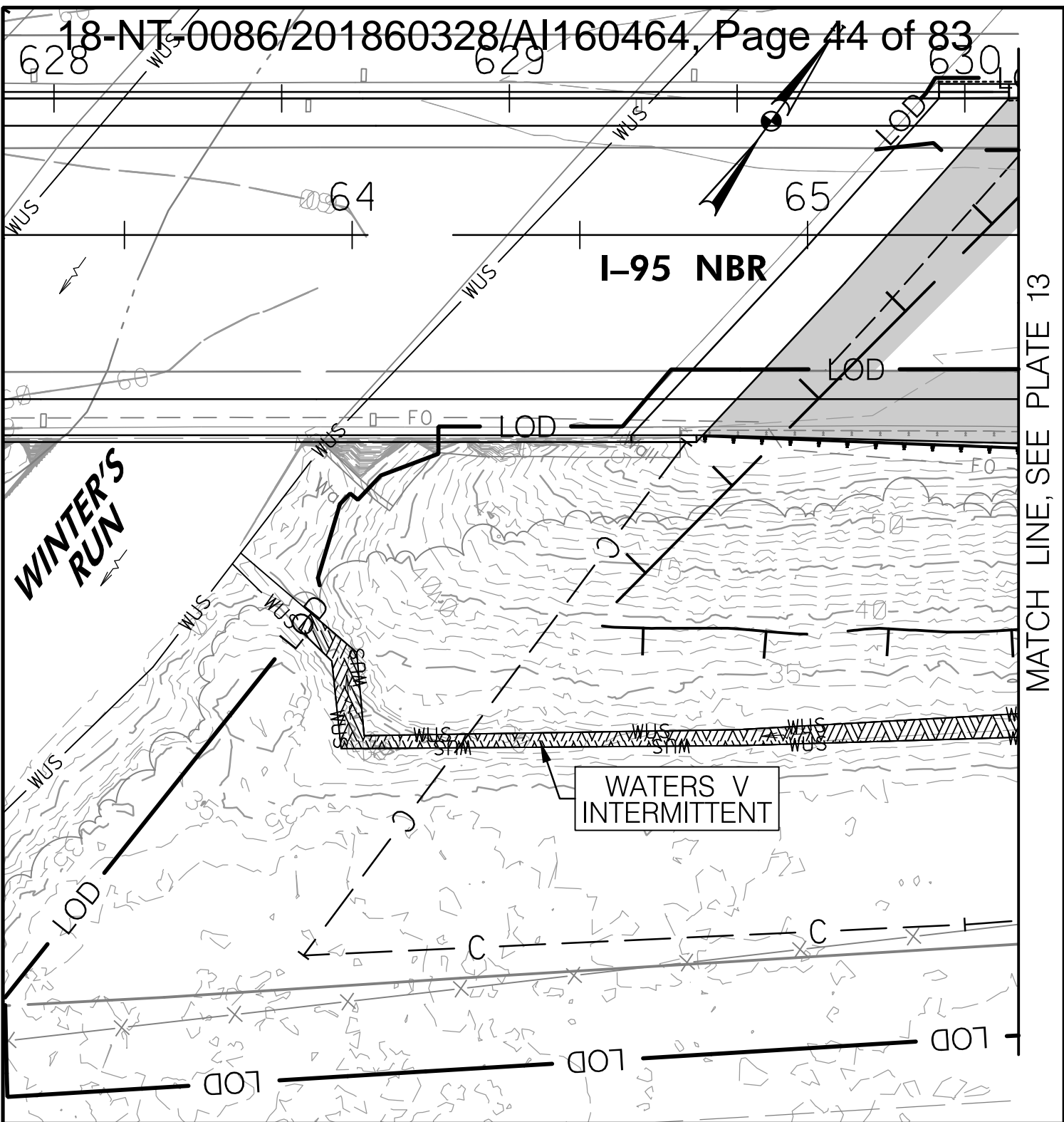
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE II OF 19



MATCH LINE, SEE PLATE 13

IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	SF
INTERMITTENT WUS	LF/SF	177 LF/690 SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	22,495 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

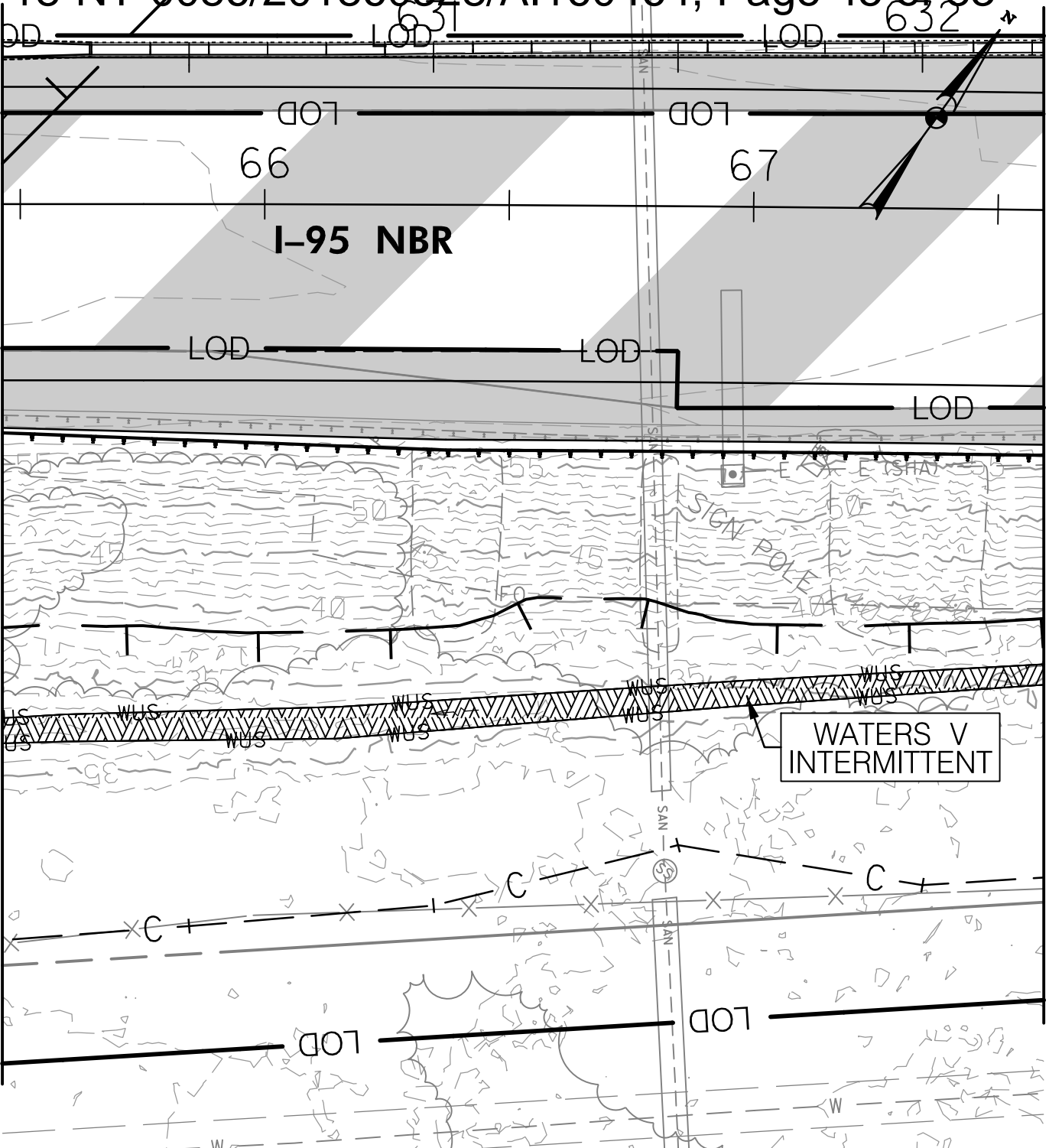
CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 12 OF 19

MATCH LINE, SEE PLATE 12

MATCH LINE, SEE PLATE 14



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	213 LF/1,173 SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	17,875 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

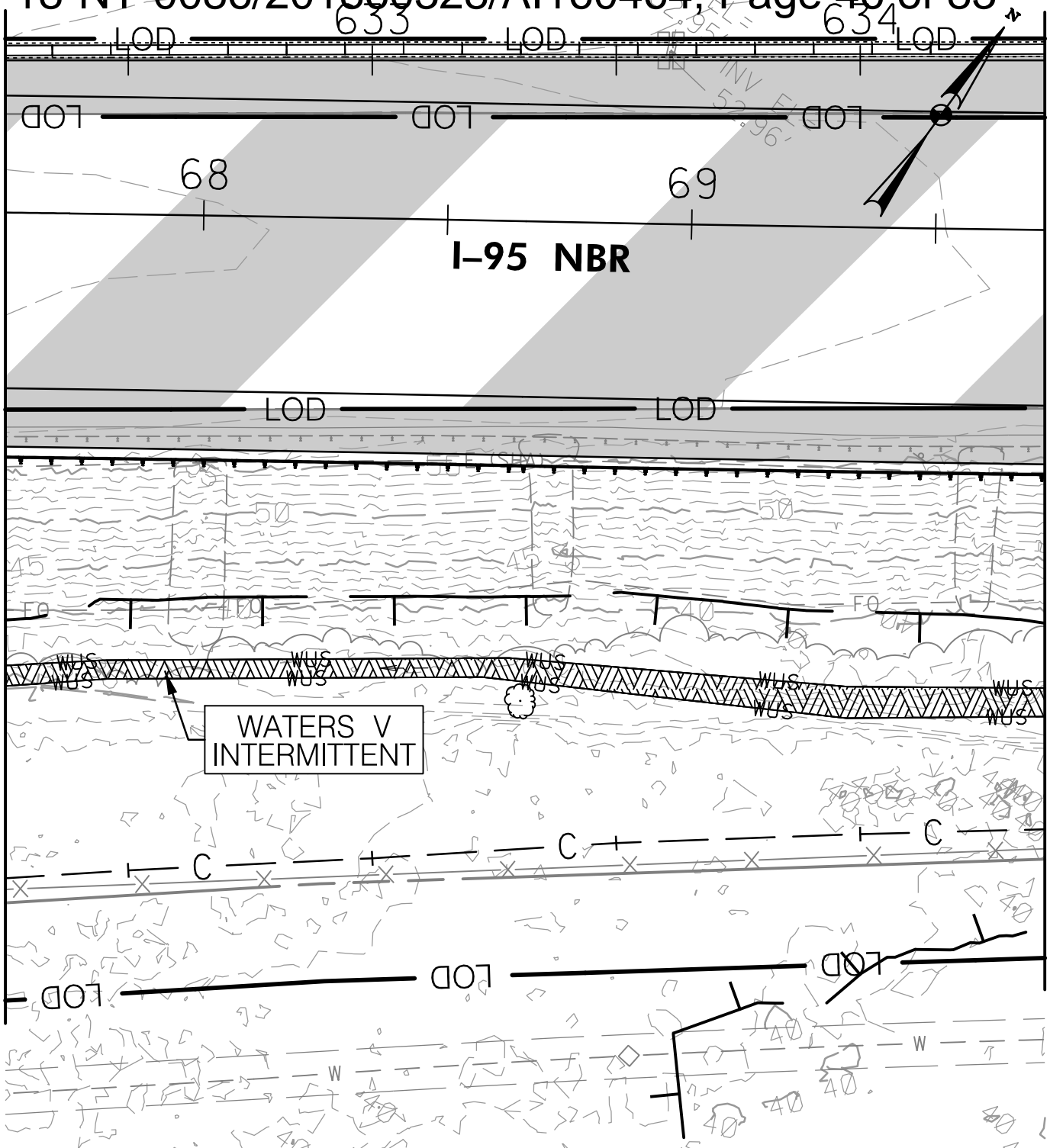
CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 13 OF 19

MATCH LINE, SEE PLATE 13

MATCH LINE, SEE PLATE 15



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	213 LF/1,035 SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	16,168 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

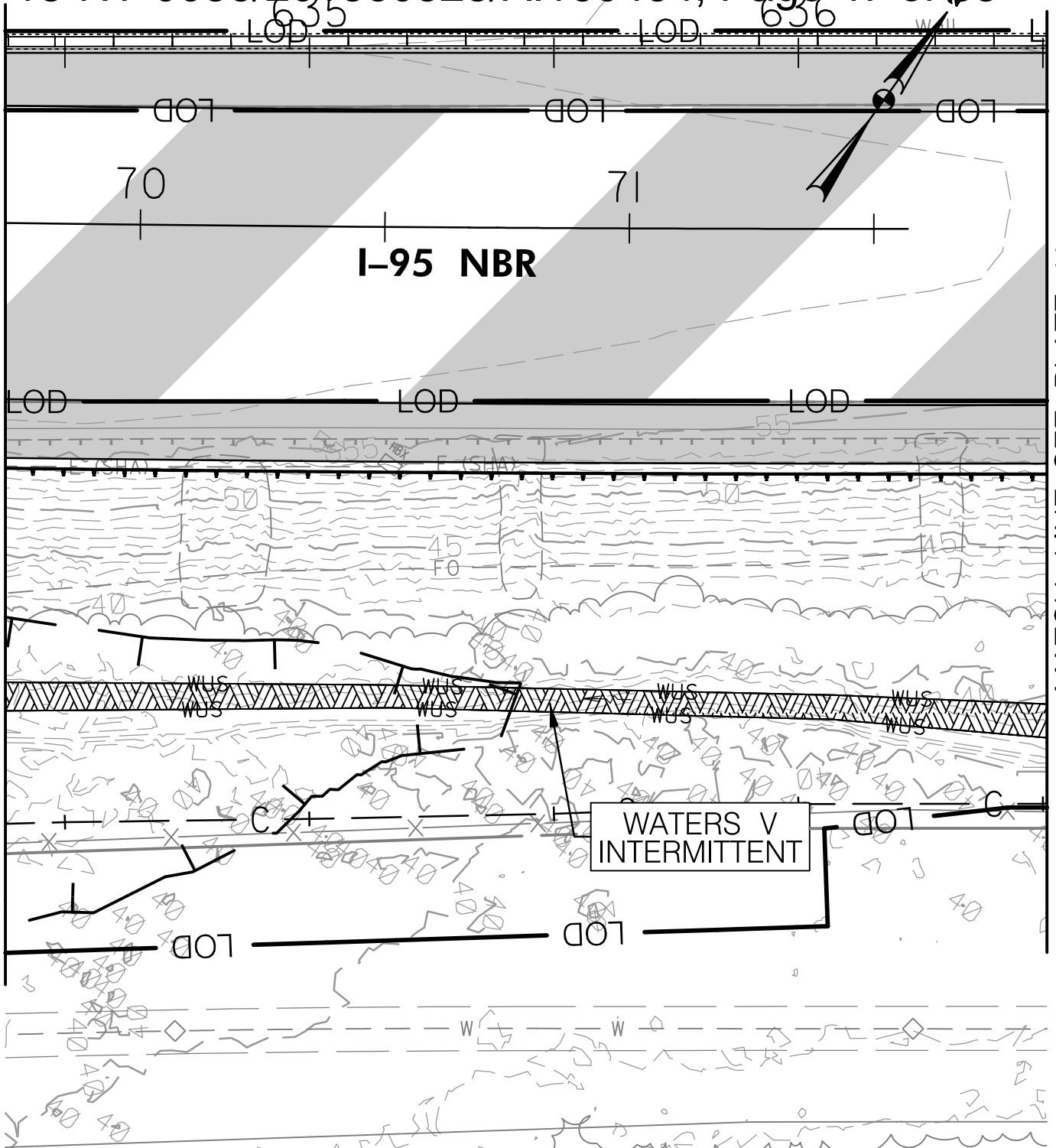
CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 14 OF 19

MATCH LINE, SEE PLATE 14

MATCH LINE, SEE PLATE 16



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	213 LF/1,110 SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	3,926 SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

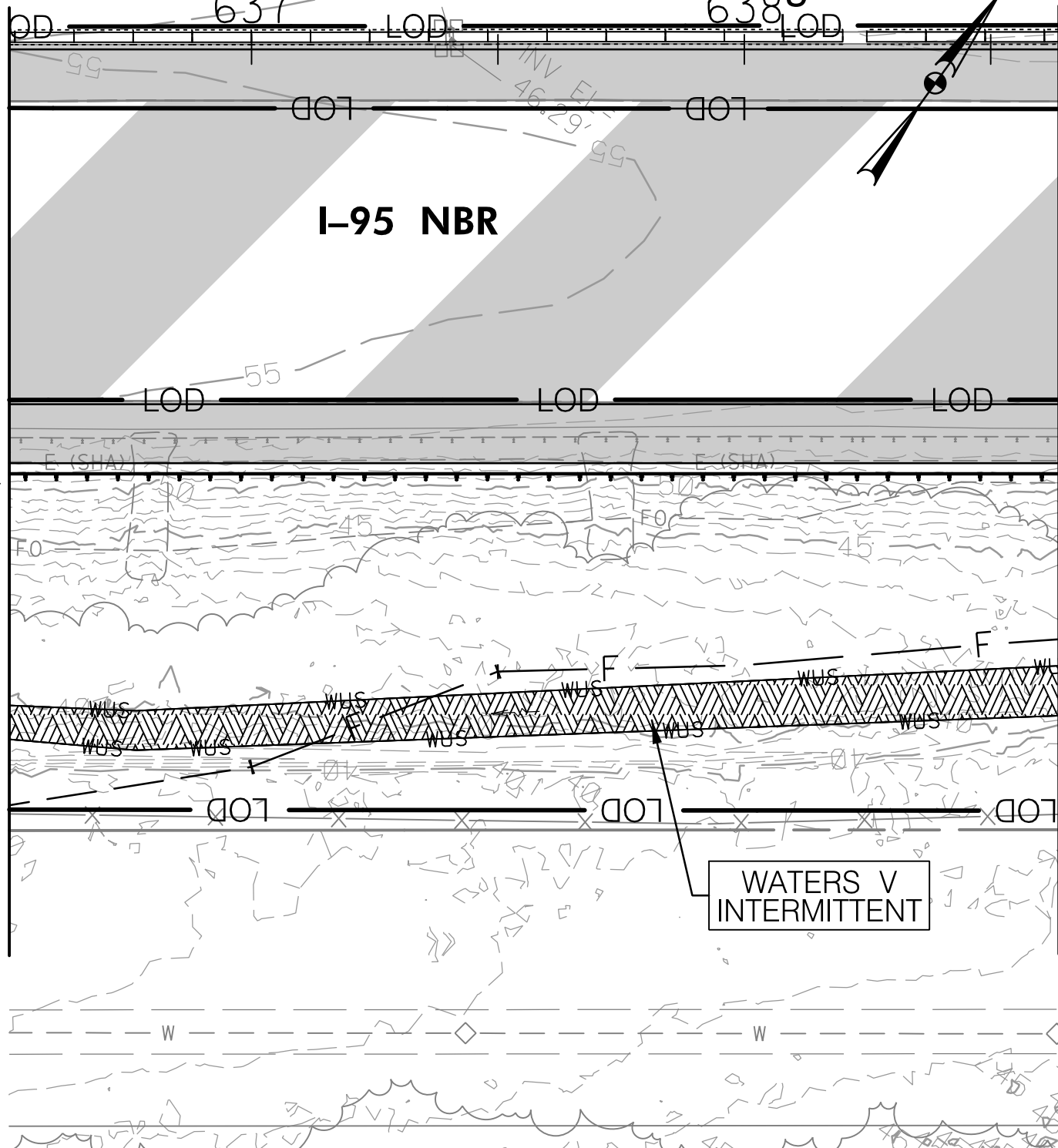
CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 15 OF 19

MATCH LINE, SEE PLATE 15

MATCH LINE, SEE PLATE 17



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	213 LF/1,891 SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

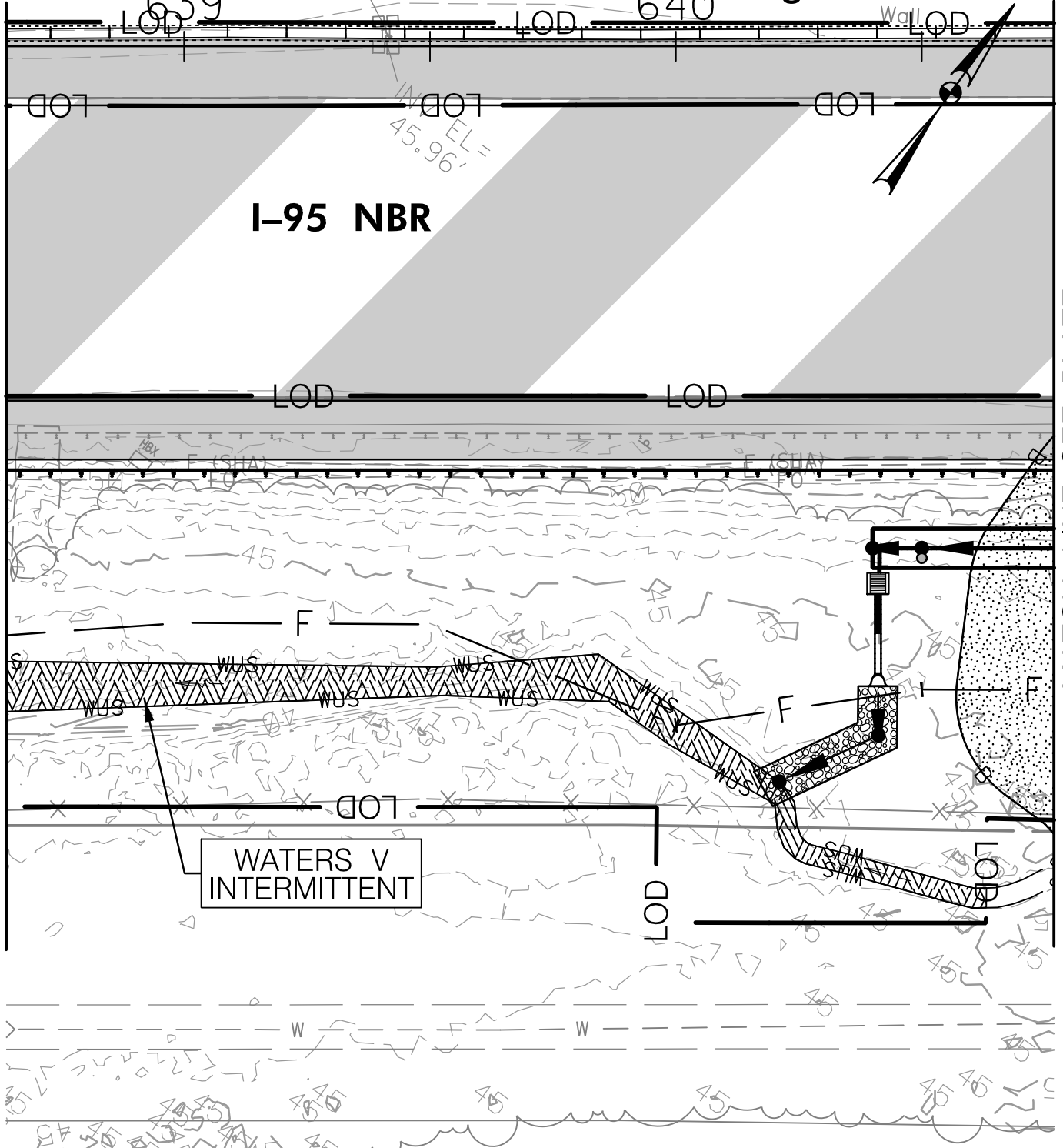
CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 16 OF 19

MATCH LINE, SEE PLATE 16

MATCH LINE, SEE PLATE 18



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	216 LF/1,429 SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	1,113 SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'

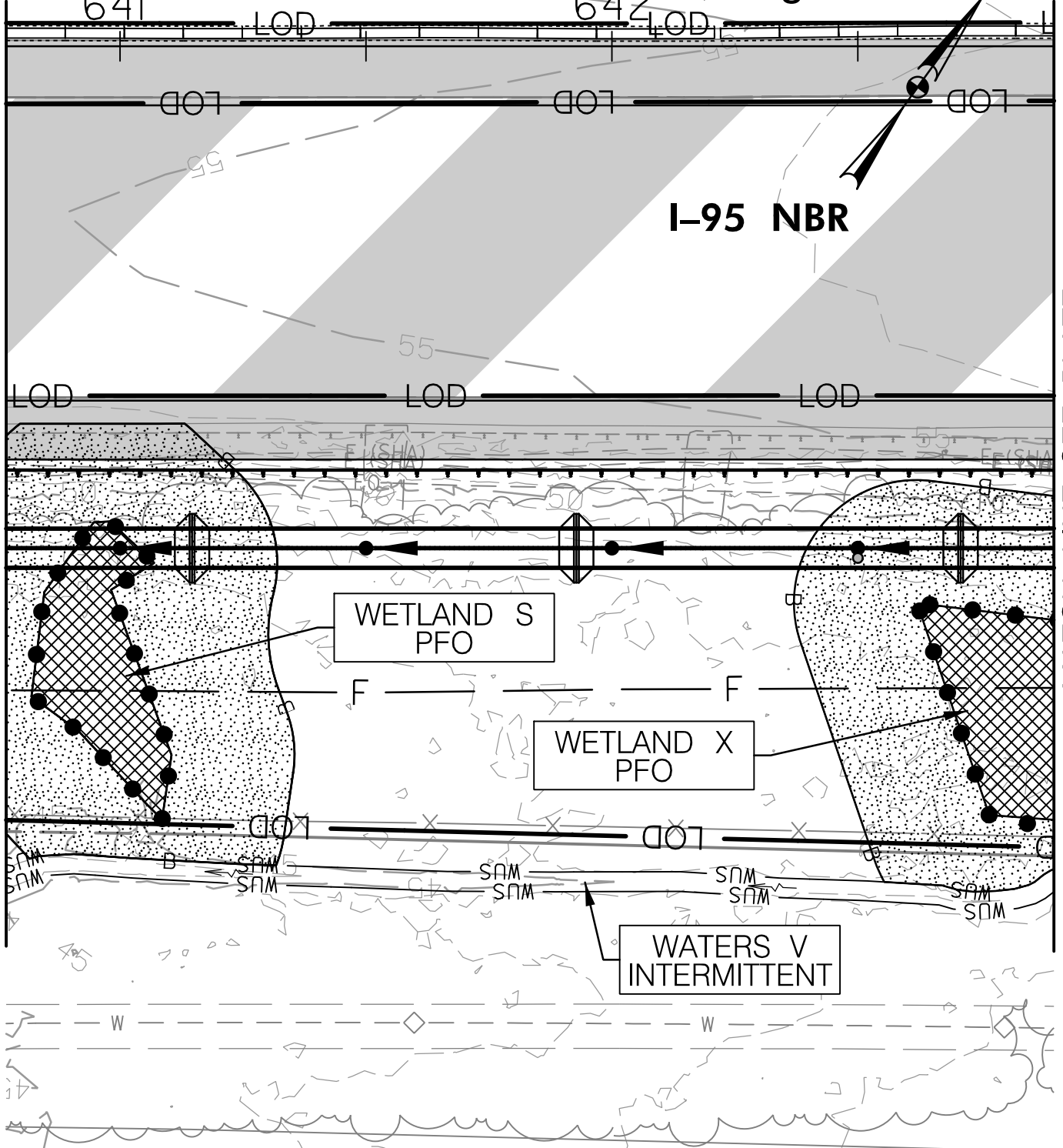
CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 17 OF 19

MATCH LINE, SEE PLATE 17

MATCH LINE, SEE PLATE 19



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	1,741 SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	LF/SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	6,690 SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

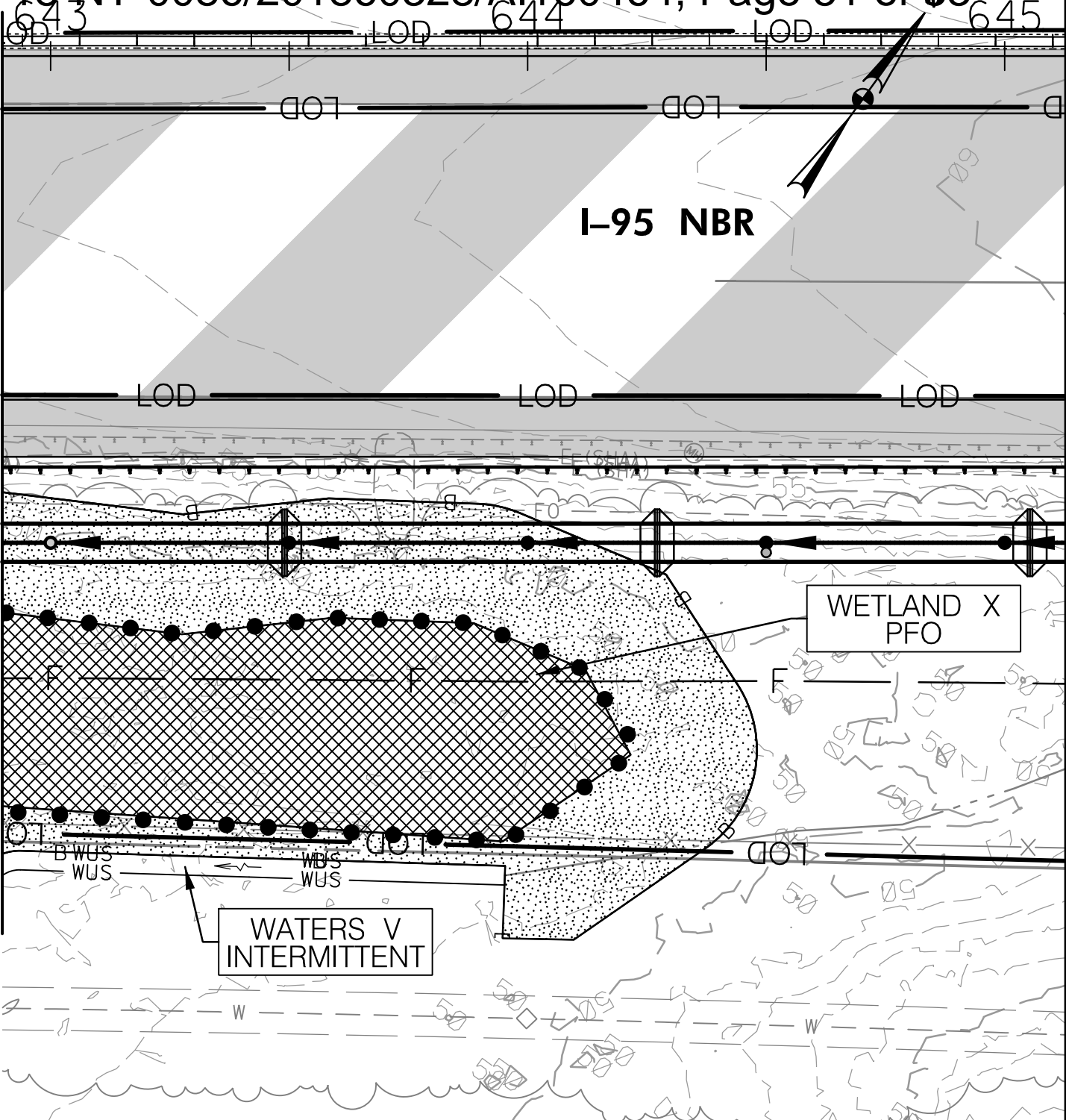
SCALE: 1" = 30'

CONTRACT NO.: KH3010-0000

DATE: MAY 2018

PLATE 18 OF 19

MATCH LINE, SEE PLATE 18



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	5,099 SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PFO/PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	LF/SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	6,191 SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 MD 152 TO MD 24
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 30'




CONTRACT NO.: KH3010-0000

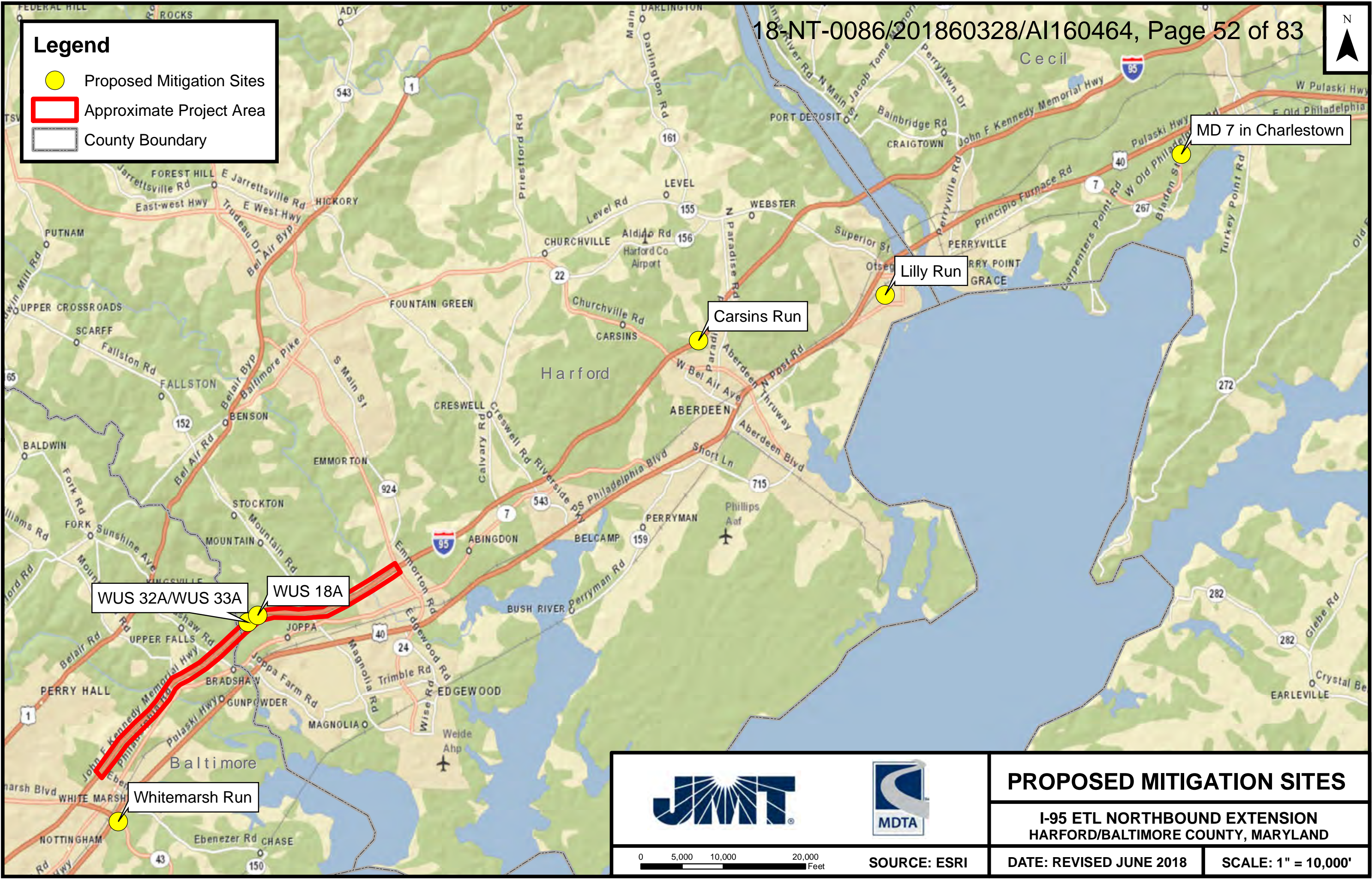
DATE: MAY 2018

PLATE 19 OF 19



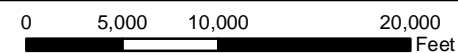
Legend

-  Proposed Mitigation Sites
-  Approximate Project Area
-  County Boundary



PROPOSED MITIGATION SITES

**I-95 ETL NORTHBOUND EXTENSION
HARFORD/BALTIMORE COUNTY, MARYLAND**





SOURCE: ESRI

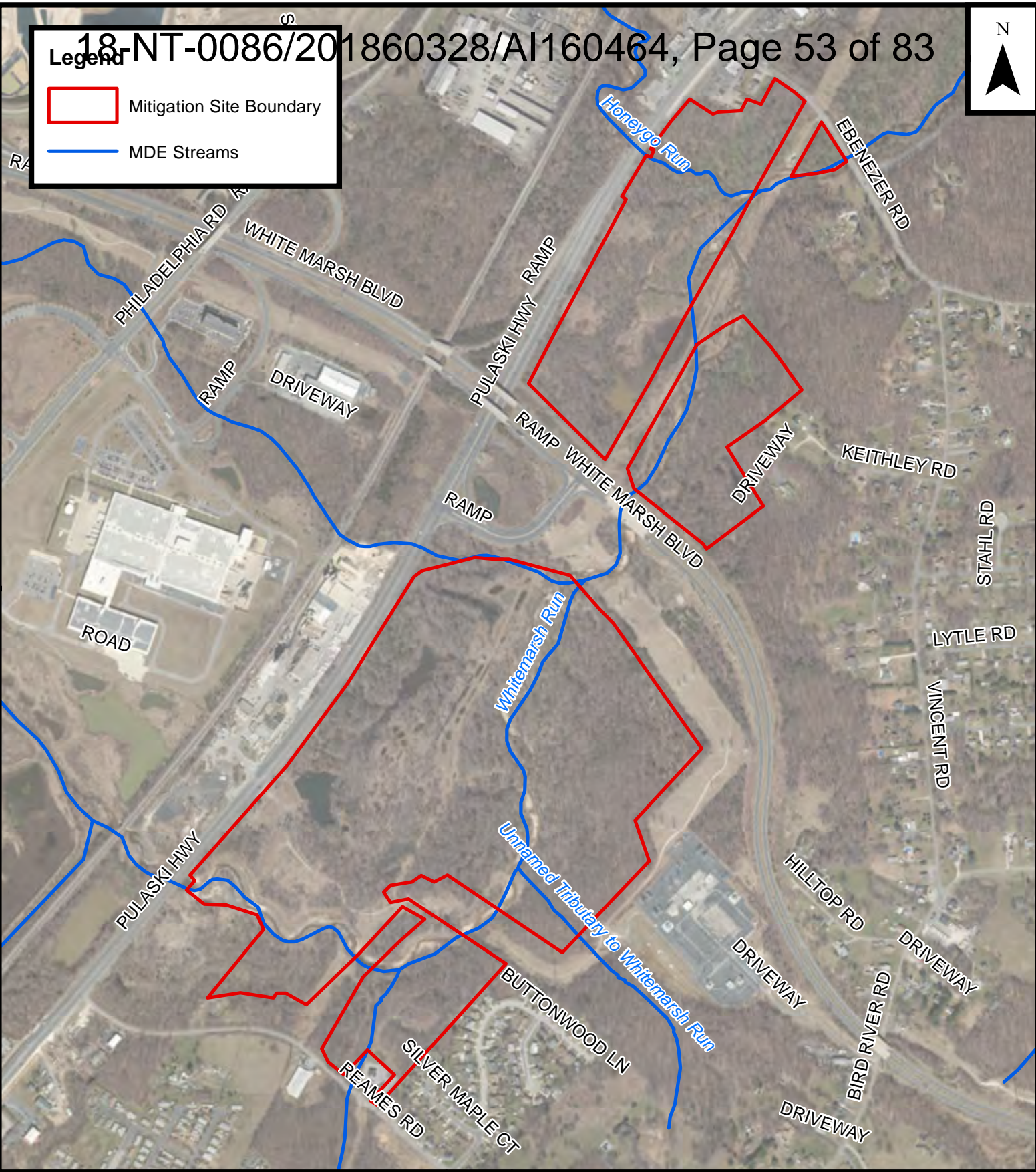
DATE: REVISED JUNE 2018

SCALE: 1" = 10,000'



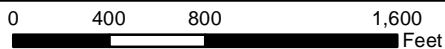
Legend

-  Mitigation Site Boundary
-  MDE Streams



**FIGURE 5: WHITEMARSH RUN
MITIGATION SITE**

**I-95 ETL NORTHBOUND EXTENSION
HARFORD/BALTIMORE COUNTY, MARYLAND**



SOURCE: ESRI

DATE: MAY 2018

SCALE: 1" = 800'



Legend

- Mitigation Site Boundary
- MDE Streams



**FIGURE 6: CARSINS RUN
MITIGATION SITE**

**I-95 ETL NORTHBOUND EXTENSION
HARFORD/BALTIMORE COUNTY, MARYLAND**

0 200 400 800 Feet

SOURCE: ESRI

DATE: MAY 2018

SCALE: 1" = 400'



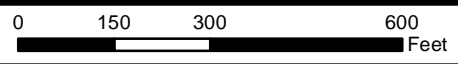
Legend

 Mitigation Site Boundary



**FIGURE 7: LILLY RUN
MITIGATION SITE**

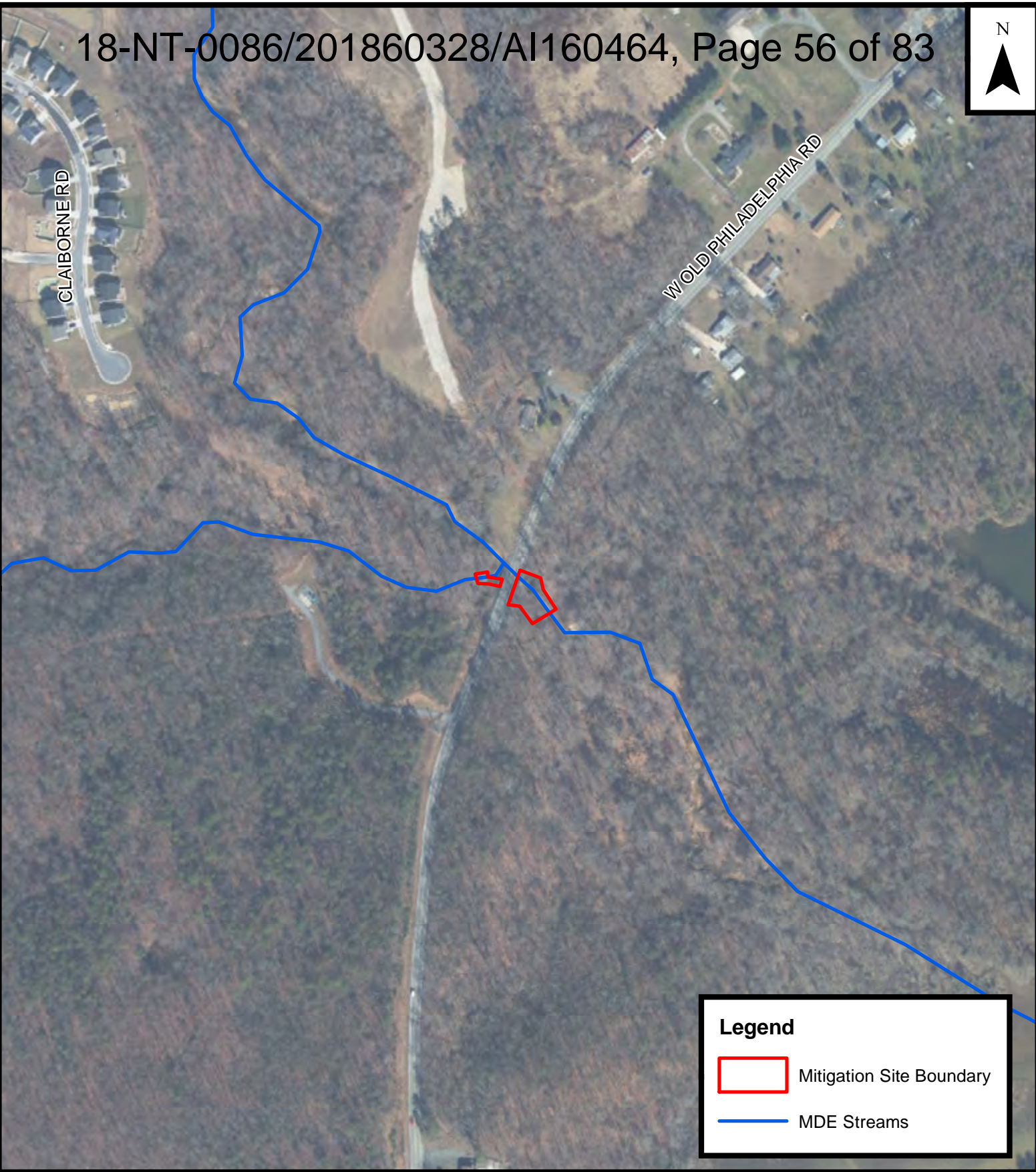
**I-95 ETL NORTHBOUND EXTENSION
HARFORD/BALTIMORE COUNTY, MARYLAND**



SOURCE: ESRI

DATE: MAY 2018

SCALE: 1" = 300'



Legend



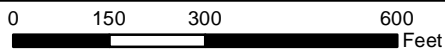
-  Mitigation Site Boundary
-  MDE Streams



FIGURE 8: MD 7 IN CHARLESTOWN MITIGATION SITE

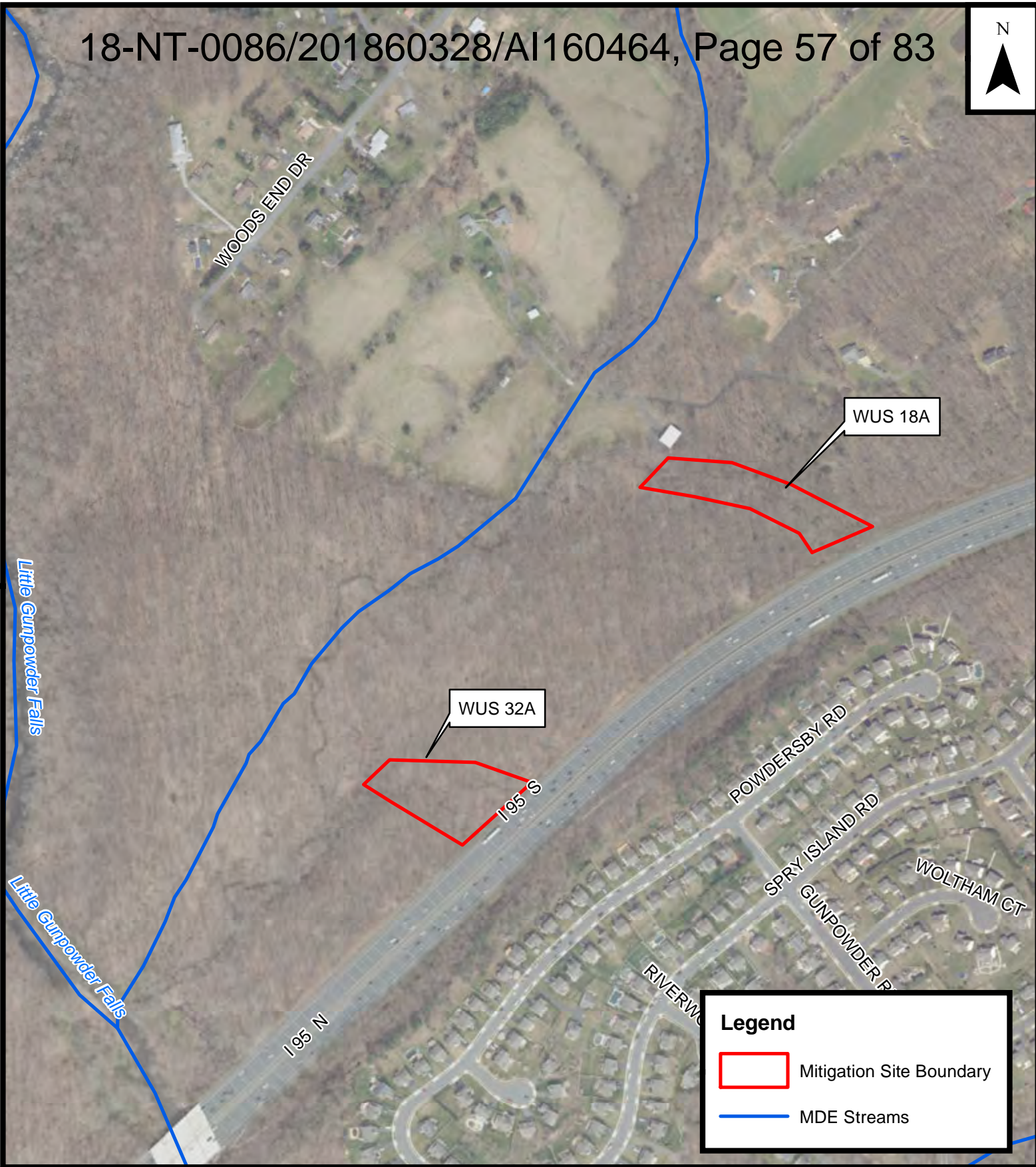
**I-95 ETL NORTHBOUND EXTENSION
HARFORD/BALTIMORE COUNTY, MARYLAND**



SOURCE: ESRI

DATE: MAY 2018

SCALE: 1" = 300'

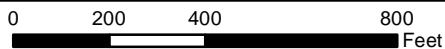


Legend

- Mitigation Site Boundary
- MDE Streams



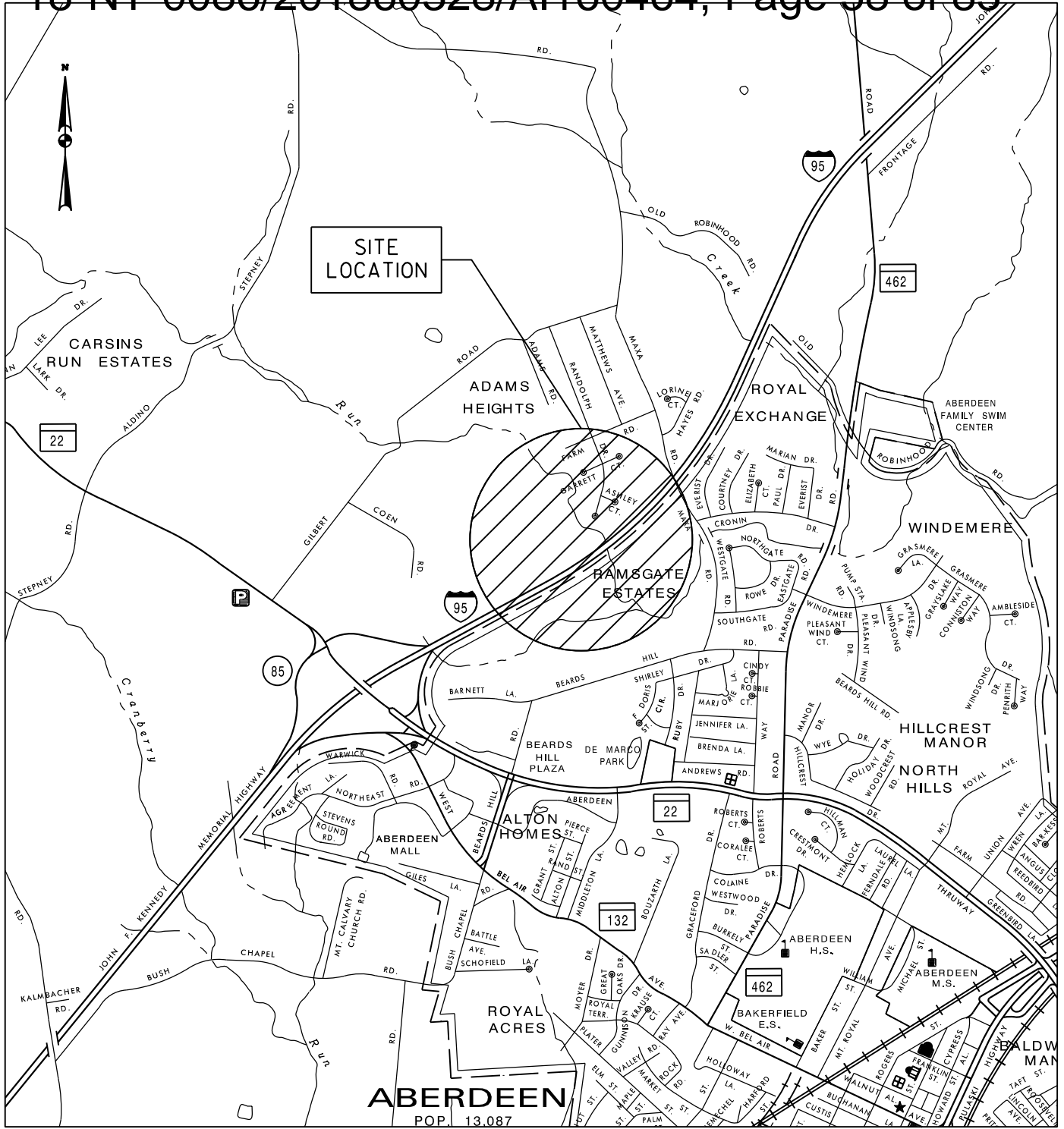
FIGURE 9: WUS 18A AND WUS 32A MITIGATION SITES
I-95 ETL NORTHBOUND EXTENSION
HARFORD/BALTIMORE COUNTY, MARYLAND



SOURCE: ESRI

DATE: MAY 2018

SCALE: 1" = 400'



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	9,172 SF	3,794 SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PERENNIAL WUS	397 LF / 11,781 SF	LF/SF
INTERMITTENT WUS	LF/SF	928 LF / 6,579 SF
EPHEMERAL WUS	LF/SF	149 LF / 1,461 SF
WETLAND BUFFER	4,335 SF	606 SF
100-YEAR FLOODPLAIN	17,940 SF	SF

NOTE: 6,534 SF / 0.15 AC OF WETLAND CREATION IS PROPOSED

VICINITY MAP

I-95 ETL NORTHBOUND EXTENSION
 CARNS RUN STREAM MITIGATION
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 2,000'





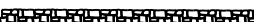



DATE: REV. MAY 2018

CONTRACT NO.: TBD







PLATE 1 OF 9

18-NT-0086/201860328/AI160464, Page 59 of 83

LEGEND

----- 430 -----	EX. CONTOUR	— LOD —————	LIMIT OF DISTURBANCE
X-----X-----X	EX. FENCE	- - - - -	ORANGE CONSTRUCTION FENCE
	EX. WOODS LINE		DISCHARGE HOSE
	EX. TREE		SANDBAG DAM
(SS) (SD)	EX. MANHOLE	☒ FB	FILTER BAG
○	EX. UTILITY POLE	(P)	PUMP
-----	PROPERTY LINE	----- 217 -----	PROPOSED CONTOUR
— WUS —————	WATERS OF THE U.S.	=====	PROPOSED CHANNEL
— WUSE —————	WATERS OF THE U.S. EPHEMERAL		PROPOSED W-WEIR
● ● ● ● ● ● ● ●	EX. NON-TIDAL WETLAND		PROPOSED RIPRAP
— B —————	25' WETLAND BUFFER		PROPOSED WETLAND CREATION AREA
— SB —————	75' STREAM BUFFER		
	SPECIMEN TREE WITH CRITICAL ROOT ZONE		
— T — T — T — T —	EX. FEMA 100 YEAR FLOODPLAIN		

LEGEND FOR IMPACT TYPES

	TEMPORARY WATERS OF U.S. IMPACT		PERMANENT WATERS OF U.S. IMPACT
	TEMPORARY NON-TIDAL WETLAND IMPACT		PERMANENT NON-TIDAL WETLAND IMPACT
	TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT		PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT

LEGEND

I-95 ETL NORTHBOUND EXTENSION
 CARSENS RUN STREAM MITIGATION
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



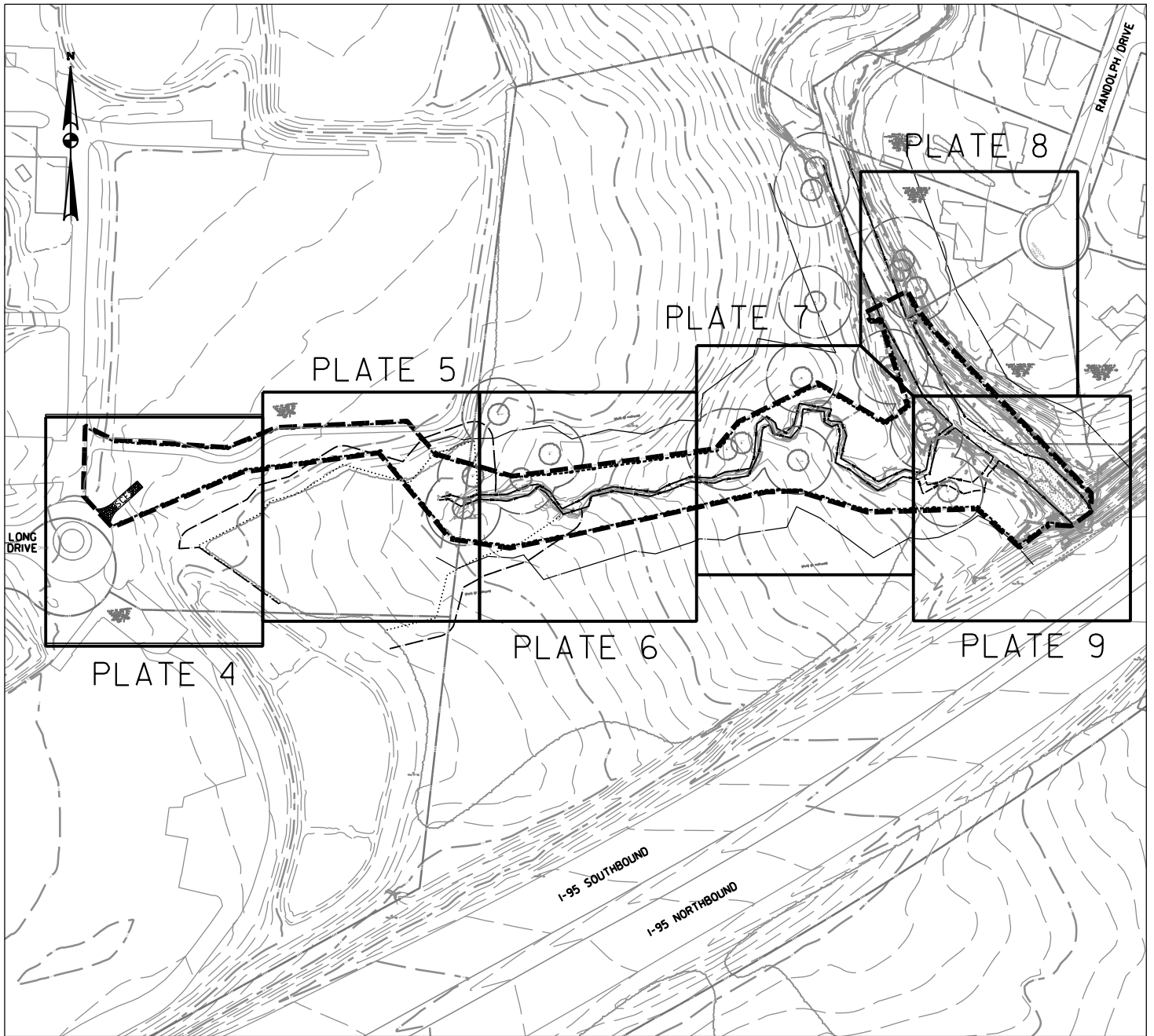
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: N.T.S.

DATE: REV. MAY 2018

CONTRACT NO.: TBD

PLATE 2 OF 9



KEY MAP

I-95 ETL NORTHBOUND EXTENSION
 CARBINS RUN STREAM MITIGATION
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**

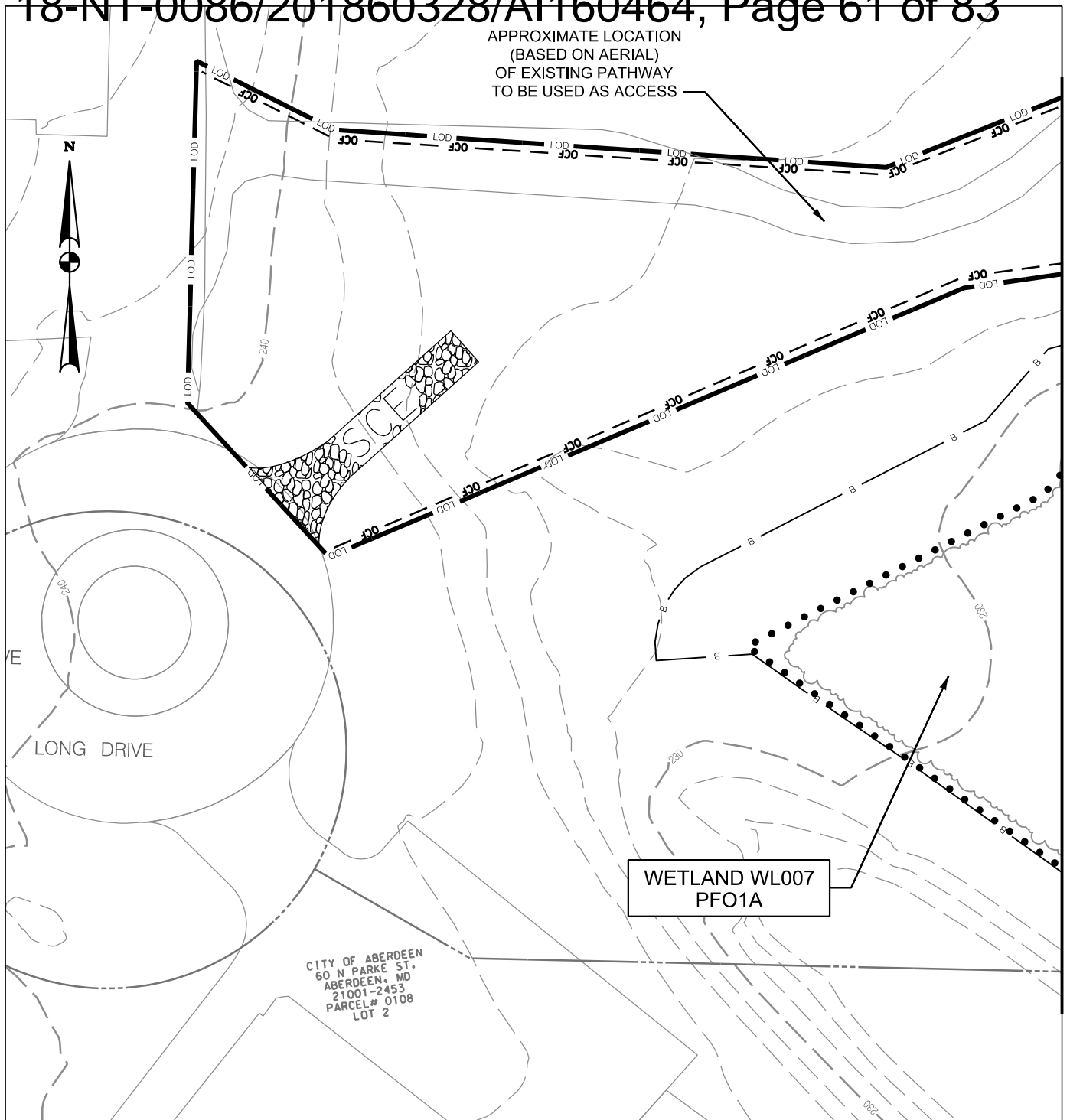
SCALE: 1" = 200'

DATE: REV. MAY 2018

CONTRACT NO.: TBD

PLATE 3 OF 9

APPROXIMATE LOCATION
(BASED ON AERIAL)
OF EXISTING PATHWAY
TO BE USED AS ACCESS



CITY OF ABERDEEN
60 N PARKE ST.
ABERDEEN, MD
21001-2453
PARCEL# 0108
LOT 2

IMPACTS ON THIS PLATE

	TEMPORARY		PERMANENT	
	SF	SF	SF	SF
PFO WETLAND				
PSS WETLAND				
PEM WETLAND				
PERENNIAL WUS				
INTERMITTENT WUS				
EPHEMERAL WUS				
WETLAND BUFFER				
100-YEAR FLOODPLAIN				

NOTE: NO IMPACTS ON THIS PLATE

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
CARNSINS RUN STREAM MITIGATION
JOHN F. KENNEDY MEMORIAL HIGHWAY
HARFORD COUNTY, MARYLAND



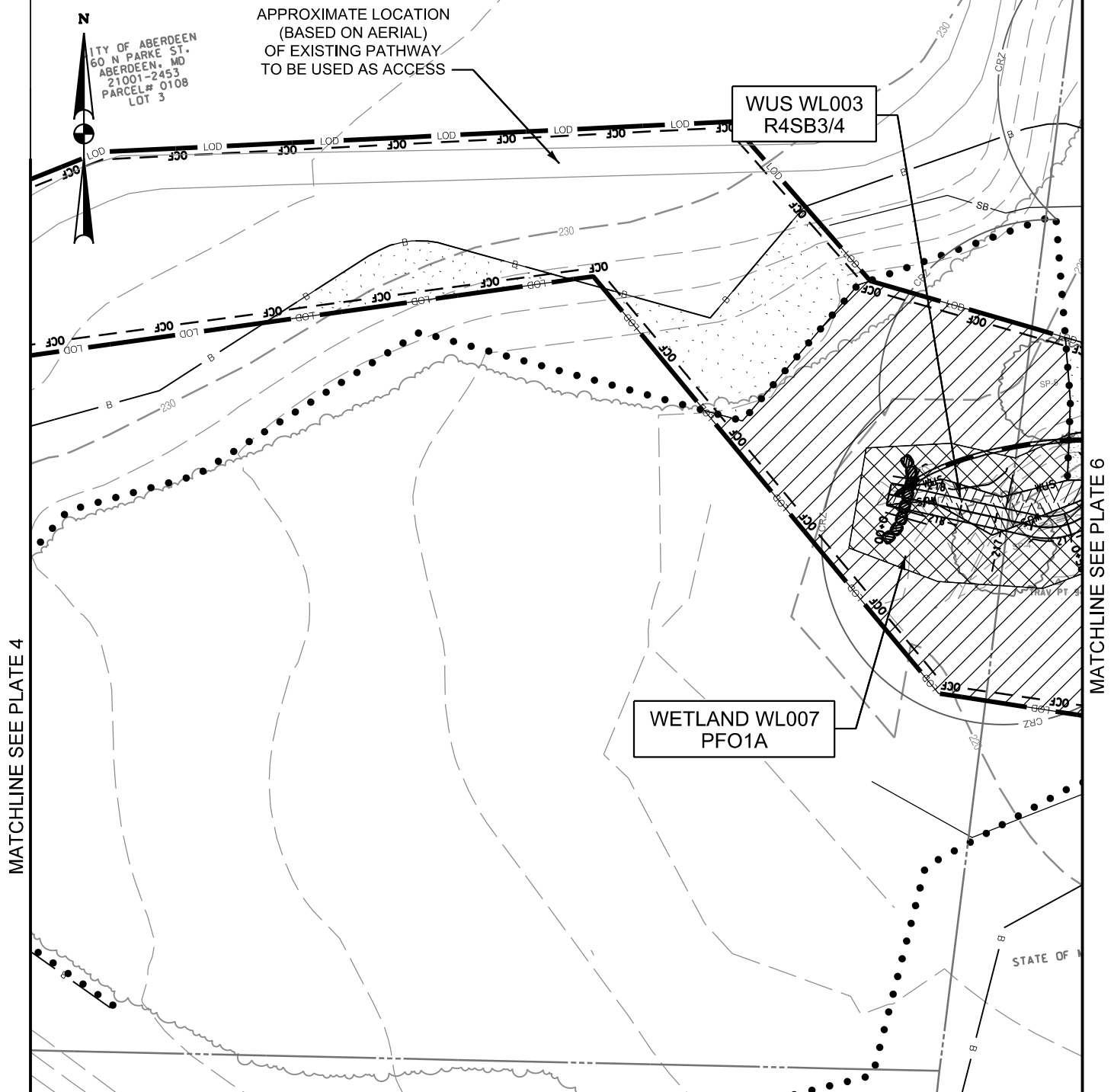
**MARYLAND
TRANSPORTATION AUTHORITY**

SCALE: 1" = 40'

DATE: REV. MAY 2018

CONTRACT NO.: TBD

PLATE 4 OF 9



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	5,506 SF	1,763 SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	54 / 394 LF/SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	2,543 SF	50 SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
CARSINS RUN STREAM MITIGATION
JOHN F. KENNEDY MEMORIAL HIGHWAY
HARFORD COUNTY, MARYLAND



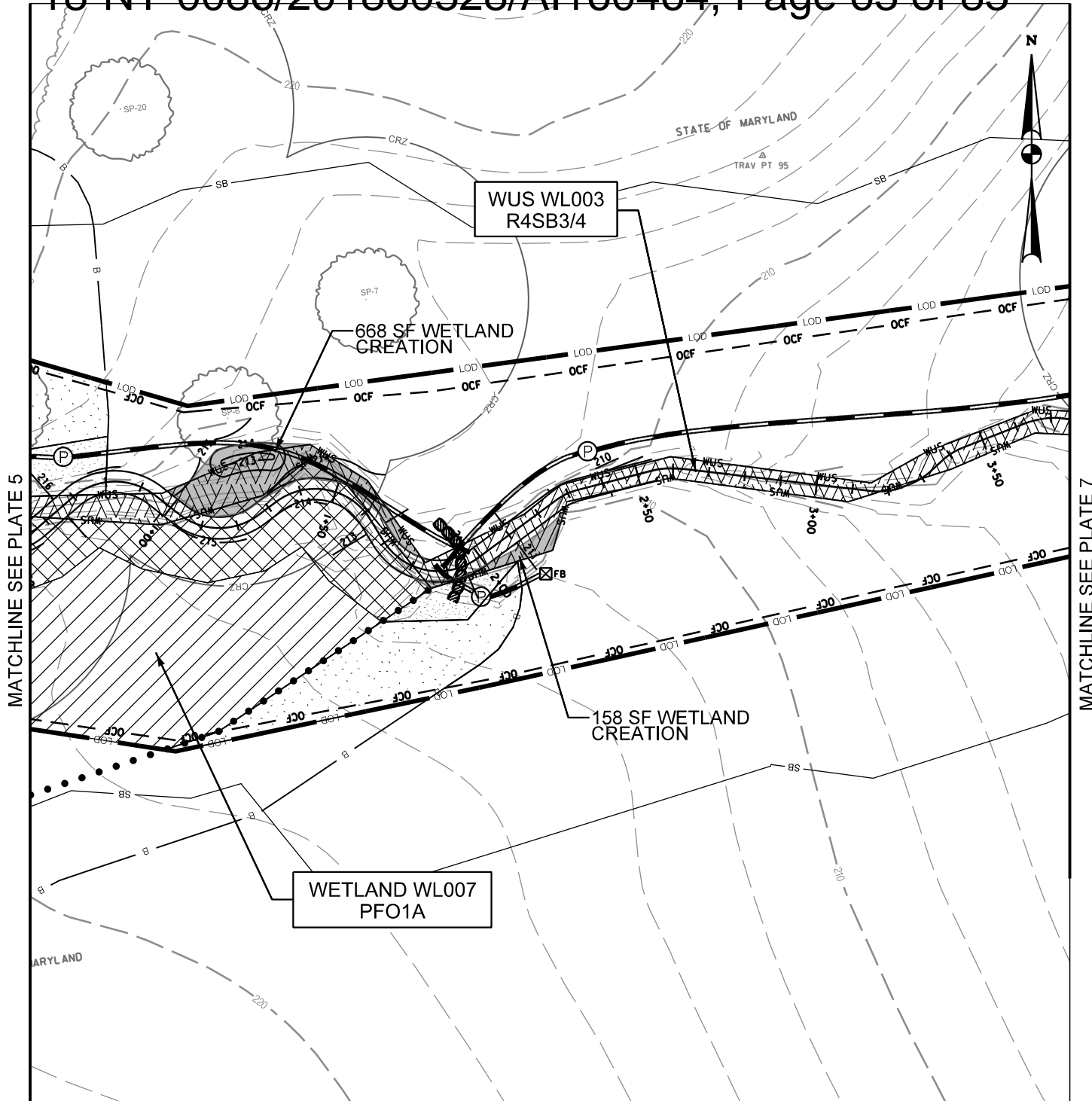
**MARYLAND
TRANSPORTATION AUTHORITY**

SCALE: 1" = 40'

DATE: REV. MAY 2018

CONTRACT NO.: TBD

PLATE 5 OF 9



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	3,666 SF	2,031 SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PERENNIAL WUS	LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	319 / 2,120 LF/SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	1,792 SF	556 SF
100-YEAR FLOODPLAIN	SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 CARSENS RUN STREAM MITIGATION
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



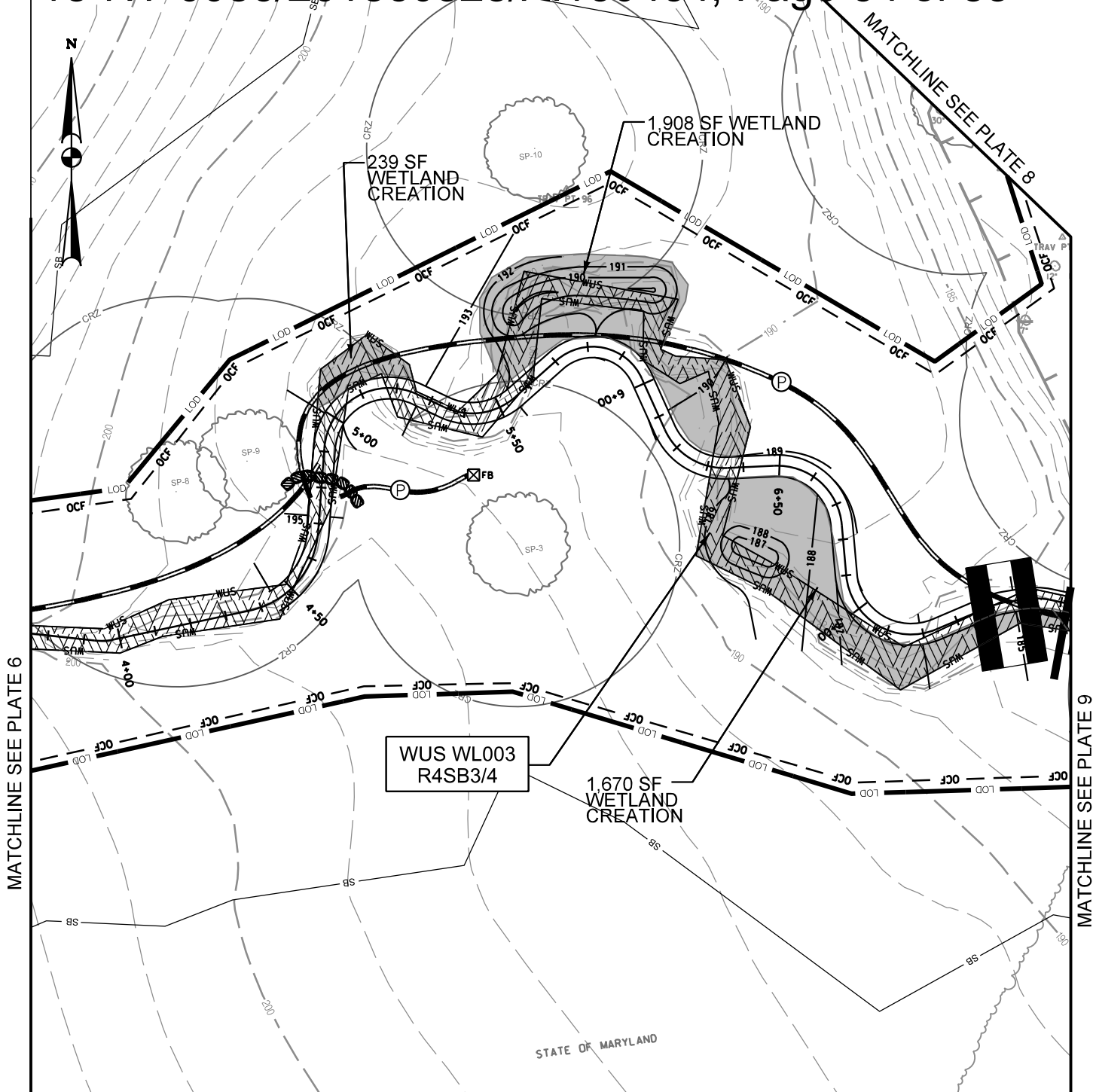
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 40'

DATE: REV. MAY 2018

CONTRACT NO.: TBD

PLATE 6 OF 9



IMPACTS ON THIS PLATE

	TEMPORARY		PERMANENT	
PFO WETLAND	SF		SF	
PSS WETLAND	SF		SF	
PEM WETLAND	SF		SF	
PERENNIAL WUS	LF/SF		LF/SF	
INTERMITTENT WUS	LF/SF	460	73,461	LF/SF
EPHEMERAL WUS	LF/SF		LF/SF	
WETLAND BUFFER	SF		SF	
100-YEAR FLOODPLAIN	621	SF		SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 CARNSINS RUN STREAM MITIGATION
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



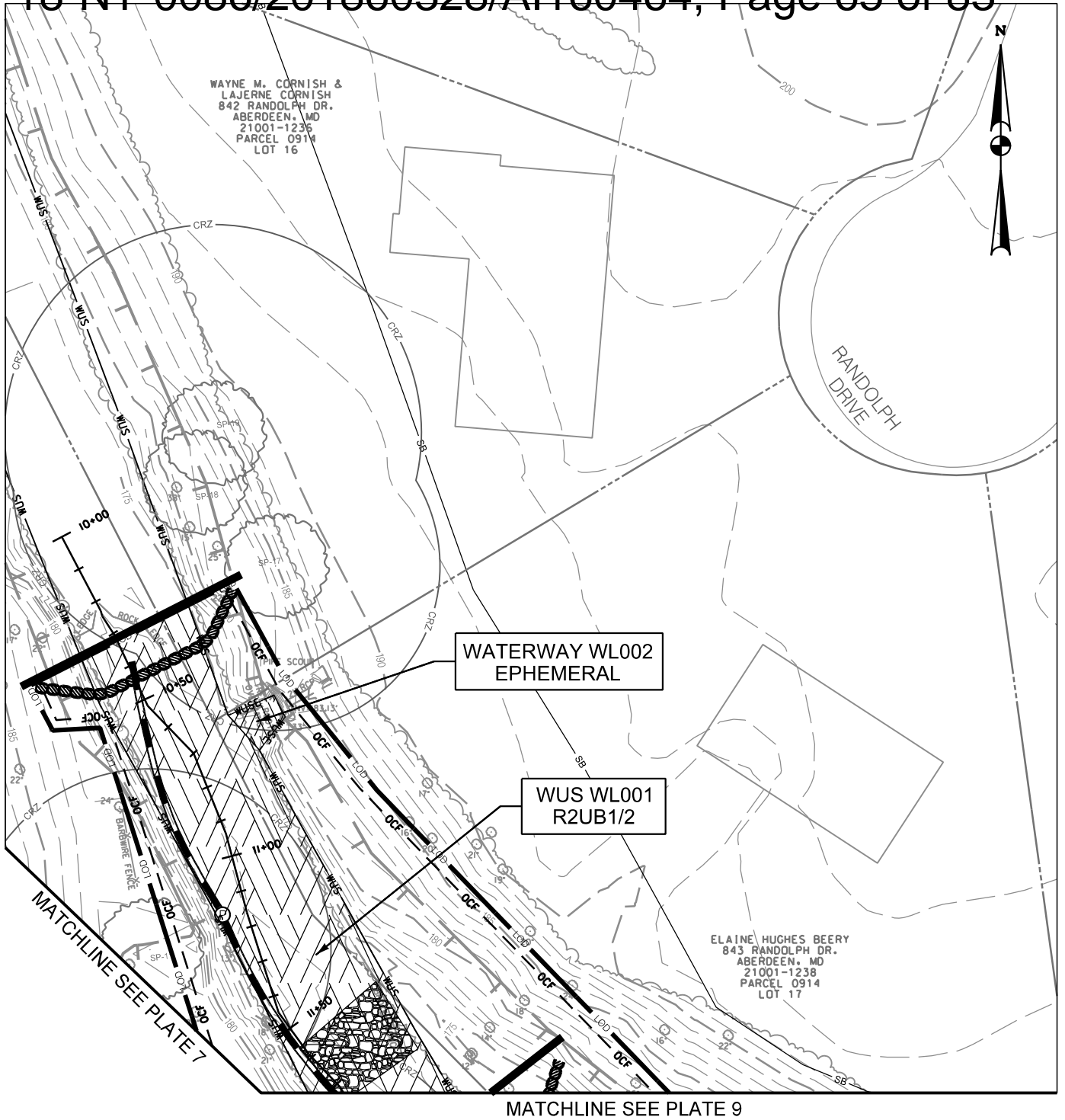
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 40'

DATE: REV. MAY 2018

CONTRACT NO.: TBD

PLATE 7 OF 9



IMPACTS ON THIS PLATE

	TEMPORARY		PERMANENT	
		SF		SF
PFO WETLAND				
PSS WETLAND		SF		SF
PEM WETLAND		SF		SF
PERENNIAL WUS	142 /	4,612 LF/SF		LF/SF
INTERMITTENT WUS		LF/SF		LF/SF
EPHEMERAL WUS		LF/SF	13 /	118 LF/SF
WETLAND BUFFER		SF		SF
100-YEAR FLOODPLAIN		4,309 SF		SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 CARNSINS RUN STREAM MITIGATION
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



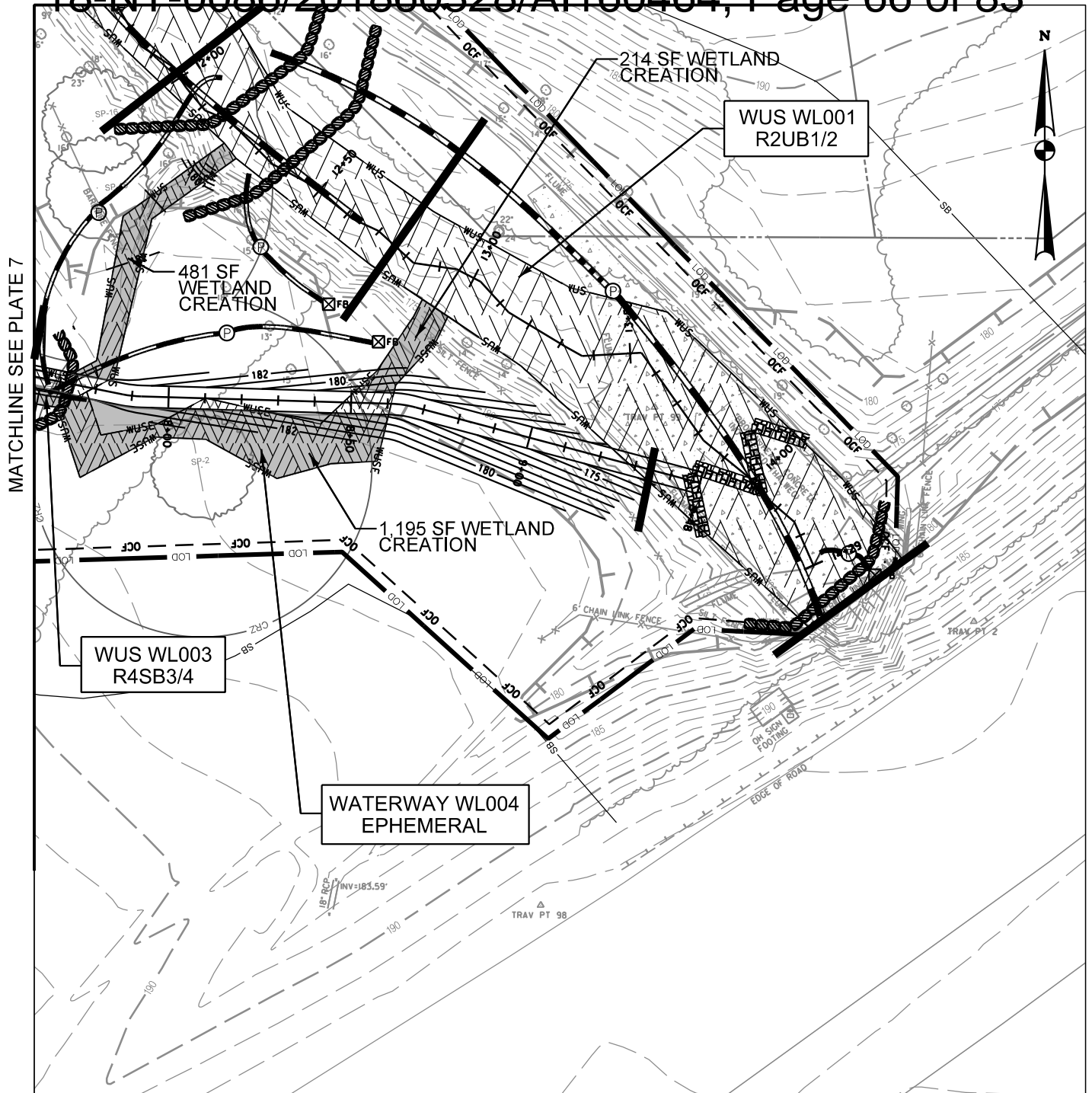
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 40'

DATE: REV. MAY 2018

CONTRACT NO.: TBD

PLATE 8 OF 9



IMPACTS ON THIS PLATE

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PERENNIAL WUS	255 / 7,169 LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	95 / 604 LF/SF
EPHEMERAL WUS	LF/SF	136 / 1,343 LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	13,010 SF	SF

WETLAND IMPACT PLATE

I-95 ETL NORTHBOUND EXTENSION
 CARSENS RUN STREAM MITIGATION
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 HARFORD COUNTY, MARYLAND



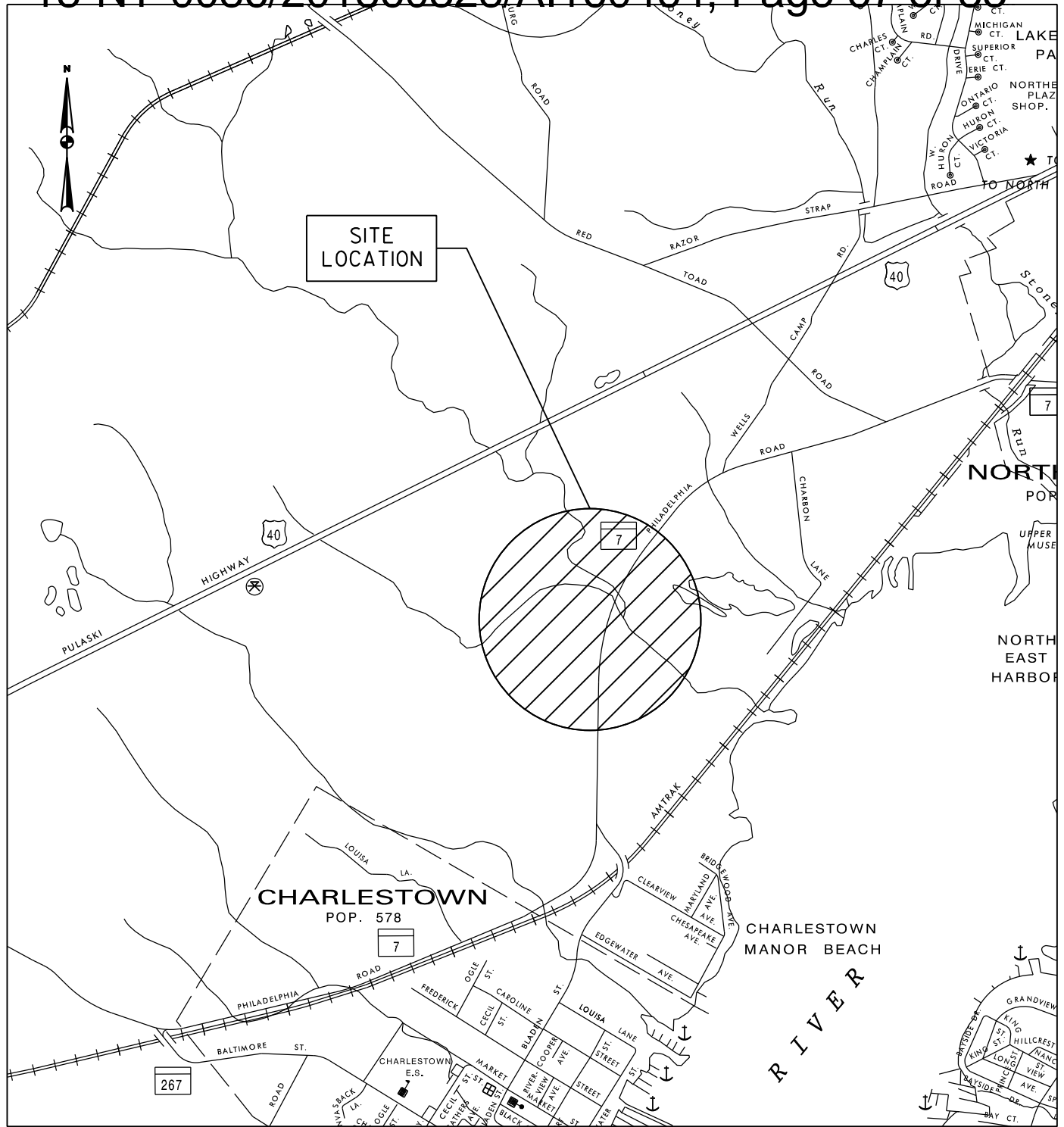
**MARYLAND
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 40'

DATE: REV. MAY 2018

CONTRACT NO.: TBD

PLATE 9 OF 9



IMPACTS ON THIS PLATE

	TEMPORARY		PERMANENT	
PFO WETLAND	SF	SF	SF	SF
PSS WETLAND	SF	SF	SF	SF
PEM WETLAND	SF	SF	SF	SF
PERENNIAL WUS	49 LF / 774 SF	80 / 1.465 LF/SF		
INTERMITTENT WUS	LF/SF	LF/SF		
EPHEMERAL WUS	LF/SF	LF/SF		
WETLAND BUFFER	SF	SF		
100-YEAR FLOODPLAIN	8.715 SF	SF		

VICINITY MAP

I-95 ETL NORTHBOUND EXTENSION
 MD 7 FISH PASSAGE SITE
 JOHN F. KENNEDY MEMORIAL HIGHWAY
 CECIL COUNTY, MARYLAND



**MARYLAND
 TRANSPORTATION AUTHORITY**





SCALE: 1" = 2,000'

DATE: REV. MAY 2018

CONTRACT NO.: TBD

PLATE 1 OF 5

LEGEND

----- 430 -----	EX. CONTOUR
X-----X-----X	EX. FENCE
~~~~~	EX. WOODS LINE
	EX. TREE
	EX. MANHOLE
	EX. UTILITY POLE
-----	PROPERTY LINE
----- WUS -----	WATERS OF THE U.S.
•••••	EX. NON-TIDAL WETLAND BOUNDARY
----- B -----	25' WETLAND BUFFER
-----	EX. FEMA 100 YEAR FLOODPLAIN
----- LOD -----	LIMIT OF DISTURBANCE
	ROCK RAMP

LEGEND FOR IMPACT TYPES

	TEMPORARY WATERS OF U.S. IMPACT		PERMANENT WATERS OF U.S. IMPACT
	TEMPORARY NON-TIDAL WETLAND IMPACT		
	TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT		

LEGEND

I-95 ETL NORTHBOUND EXTENSION  
 MD 7 FISH PASSAGE SITE  
 JOHN F. KENNEDY MEMORIAL HIGHWAY  
 CECIL COUNTY, MARYLAND



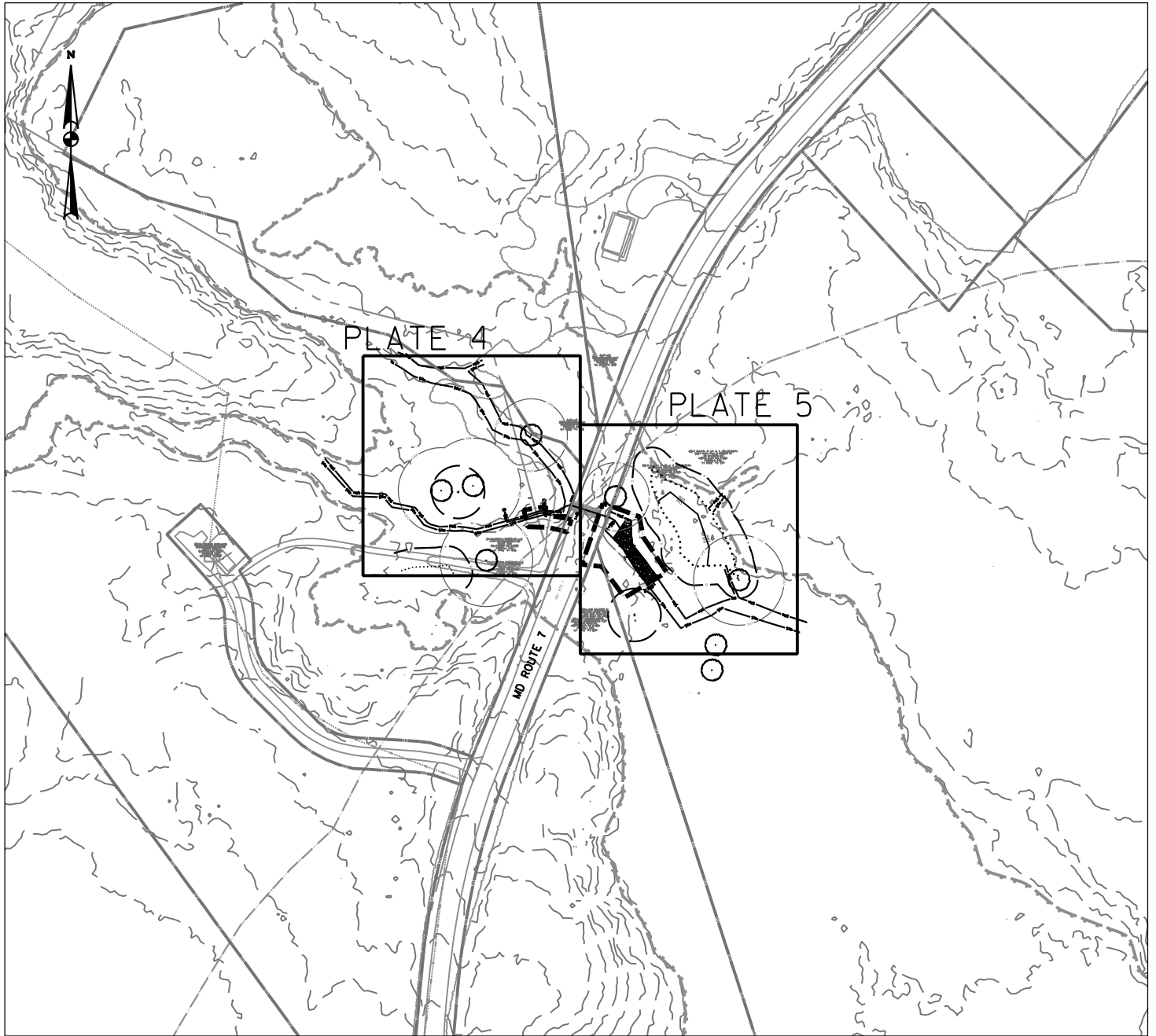
**MARYLAND  
 TRANSPORTATION AUTHORITY**

SCALE:   N.T.S.  

DATE:   REV. MAY 2018  

CONTRACT NO.:   TBD  

PLATE   2   OF   5



KEY MAP

I-95 ETL NORTHBOUND EXTENSION  
 MD 7 FISH PASSAGE SITE  
 JOHN F. KENNEDY MEMORIAL HIGHWAY  
 CECIL COUNTY, MARYLAND



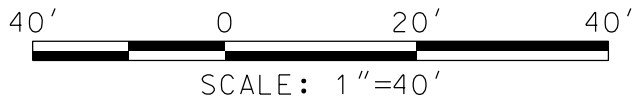
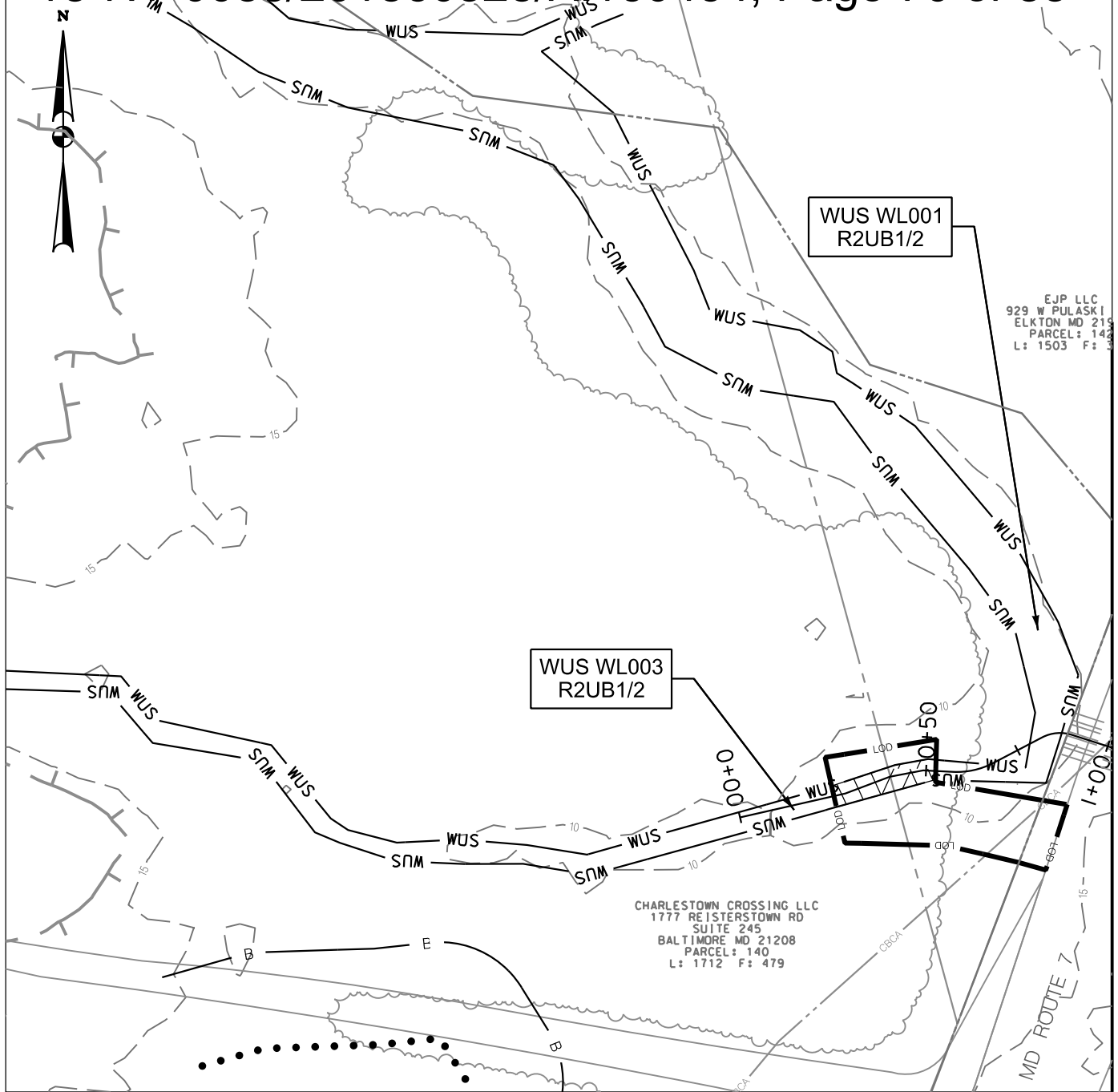
**MARYLAND  
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 200'

DATE: REV. MAY 2018

CONTRACT NO.: TBD

PLATE 3 OF 5



**IMPACTS ON THIS PLATE**

	TEMPORARY	PERMANENT
PFO WETLAND	SF	SF
PSS WETLAND	SF	SF
PEM WETLAND	SF	SF
PERENNIAL WUS	27 / 165 LF/SF	LF/SF
INTERMITTENT WUS	LF/SF	LF/SF
EPHEMERAL WUS	LF/SF	LF/SF
WETLAND BUFFER	SF	SF
100-YEAR FLOODPLAIN	1,189 SF	SF

**WETLAND IMPACT PLATE**

I-95 ETL NORTHBOUND EXTENSION  
 MD 7 FISH PASSAGE SITE  
 JOHN F. KENNEDY MEMORIAL HIGHWAY  
 CECIL COUNTY, MARYLAND



**MARYLAND  
 TRANSPORTATION AUTHORITY**

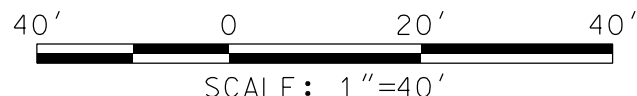
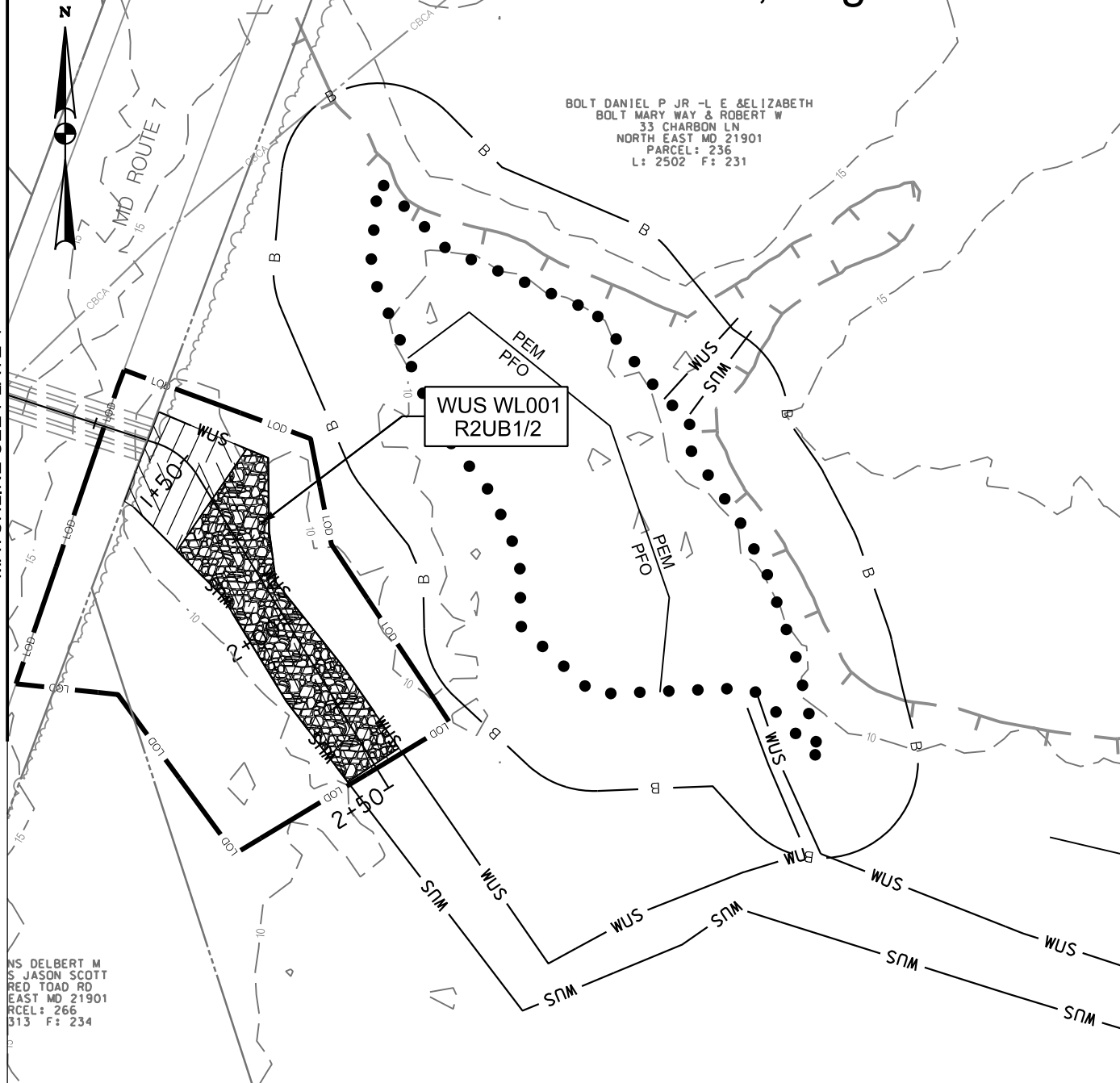
SCALE: 1" = 40'

DATE: REV. MAY 2018

CONTRACT NO.: TBD

PLATE 4 OF 5

MATCHLINE SEE PLATE 4



**IMPACTS ON THIS PLATE**

	TEMPORARY		PERMANENT	
PFO WETLAND	SF		SF	
PSS WETLAND	SF		SF	
PEM WETLAND	SF		SF	
PERENNIAL WUS	22 / 609 LF/SF		80 / 1,465 LF/SF	
INTERMITTENT WUS	LF/SF		LF/SF	
EPHEMERAL WUS	LF/SF		LF/SF	
WETLAND BUFFER	SF		SF	
100-YEAR FLOODPLAIN	7,526 SF		SF	

**WETLAND IMPACT PLATE**

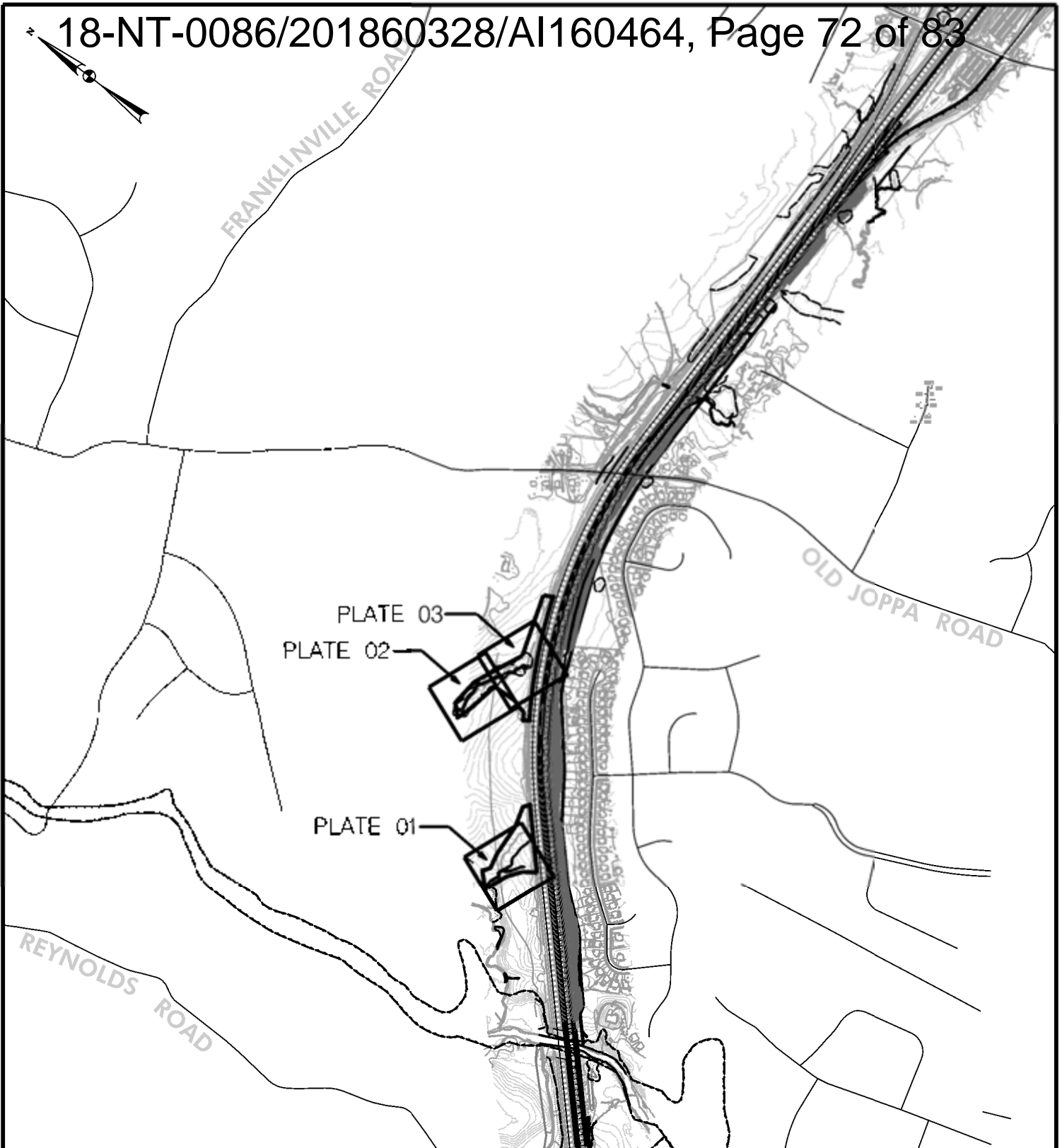
I-95 ETL NORTHBOUND EXTENSION  
 MD 7 FISH PASSAGE SITE  
 JOHN F. KENNEDY MEMORIAL HIGHWAY  
 CECIL COUNTY, MARYLAND



**MARYLAND  
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 40'      DATE: REV. MAY 2018

CONTRACT NO.: TBD      PLATE 5 OF 5



REYNOLDS ROAD

FRANKLINVILLE ROAD

OLD JOPPA ROAD

PLATE 03  
PLATE 02

PLATE 01

**IMPACT PLATE KEYMAP**

**I-95 ETL NORTHBOUND EXTENSION  
ONSITE MITIGATION PLAN  
JOHN F. KENNEDY MEMORIAL HIGHWAY  
HARFORD COUNTY, MARYLAND**



**MARYLAND  
TRANSPORTATION AUTHORITY**

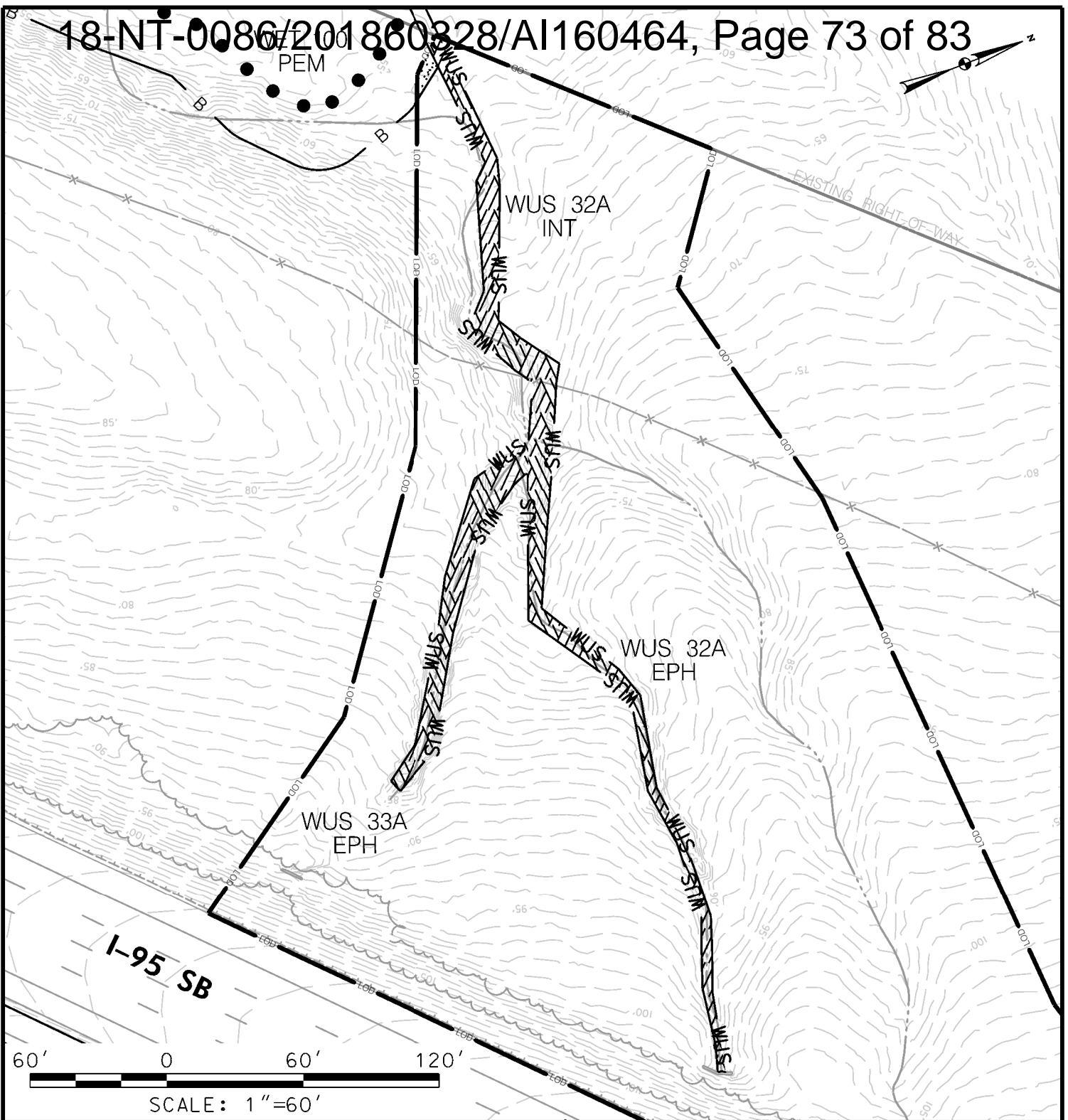


SCALE: 1"=1000'

SCALE: 1" = 1000'

DATE: MAY 2018





**IMPACTS ON THIS PLATE**

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	0 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	0 LF/SF
INTERMITTENT WUS	0 LF/SF	192/1,711 LF/SF
EPHEMERAL WUS	0 LF/SF	551/3,149 LF/SF
WETLAND BUFFER	0 SF	97 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

**WETLAND IMPACT PLATE**

I-95 ETL NORTHBOUND EXTENSION  
 ONSITE MITIGATION PLAN  
 JOHN F. KENNEDY MEMORIAL HIGHWAY  
 BALTIMORE & HARFORD COUNTIES, MARYLAND



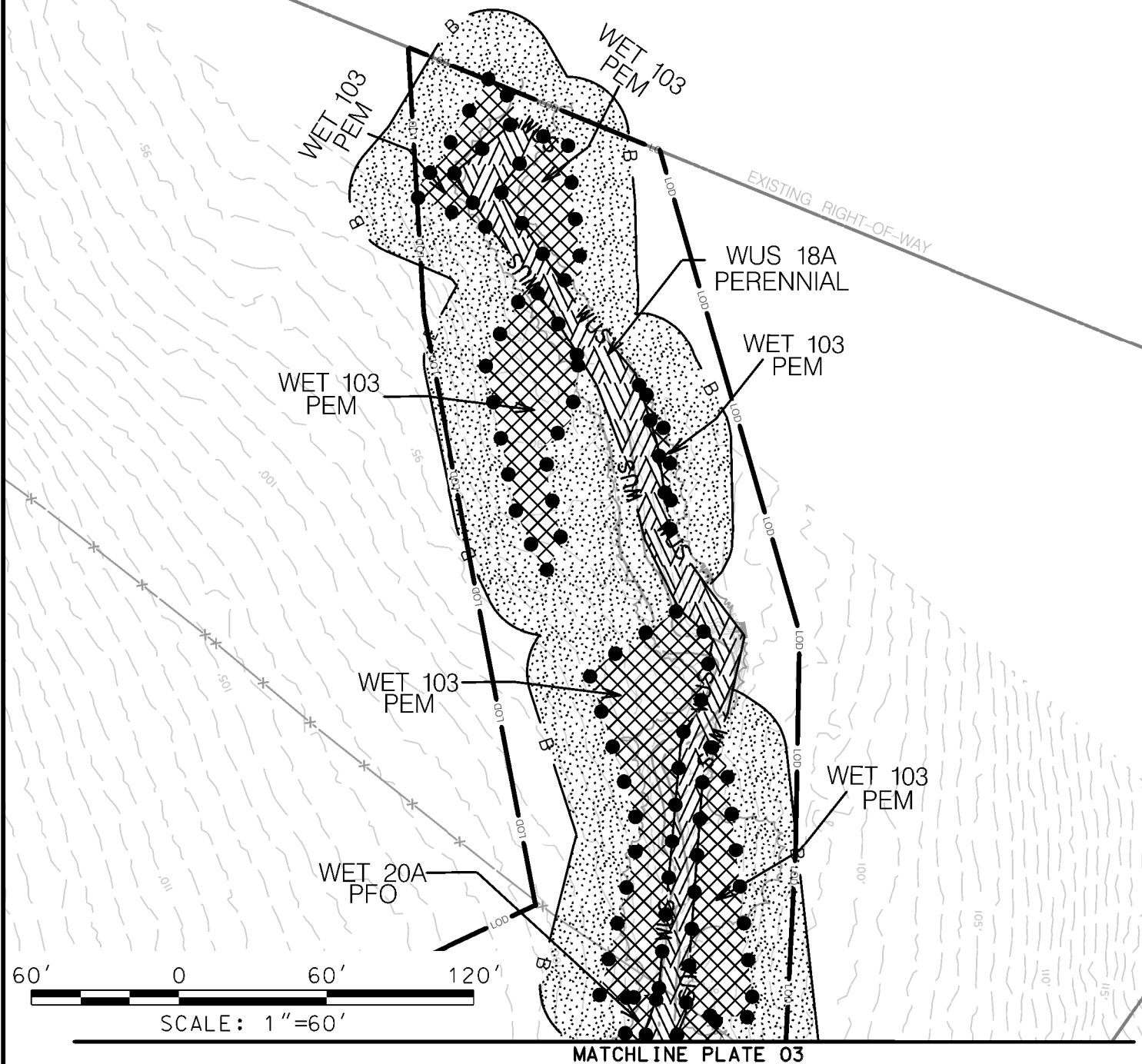
**MARYLAND  
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 1 OF 3



**IMPACTS ON THIS PLATE**

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	165 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	10,534 SF
PERENNIAL WUS	0 LF/SF	417/5,088 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	24,942 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

**WETLAND IMPACT PLATE**

I-95 ETL NORTHBOUND EXTENSION  
 ONSITE MITIGATION PLAN  
 JOHN F. KENNEDY MEMORIAL HIGHWAY  
 BALTIMORE & HARFORD COUNTIES, MARYLAND



**MARYLAND  
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

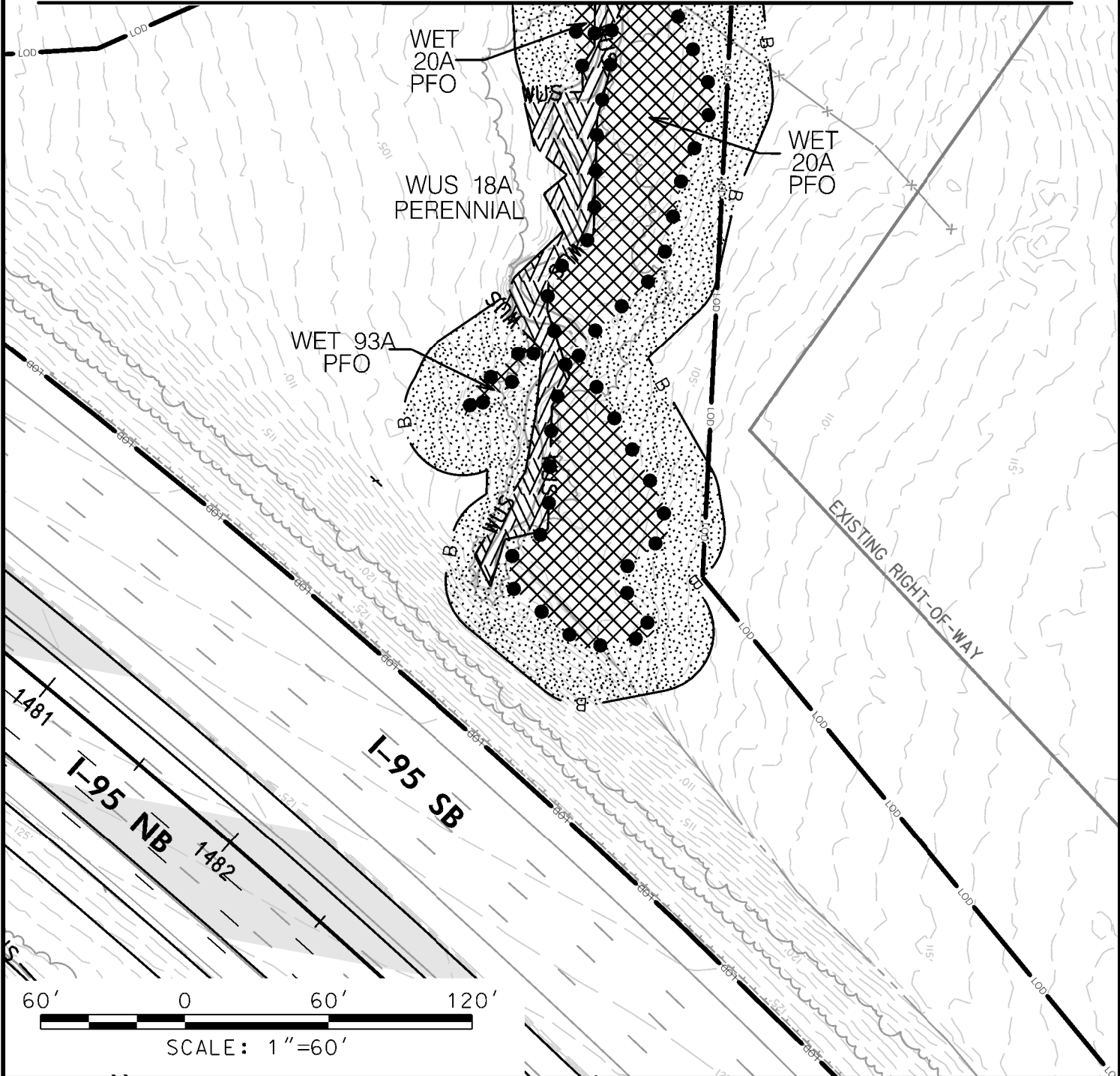
CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 02 OF 03



MATCHLINE PLATE 02



**IMPACTS ON THIS PLATE**

	TEMPORARY	PERMANENT
PFO WETLAND	0 SF	9,799 SF
PSS WETLAND	0 SF	0 SF
PEM WETLAND	0 SF	0 SF
PERENNIAL WUS	0 LF/SF	264/3,396 LF/SF
INTERMITTENT WUS	0 LF/SF	0 LF/SF
EPHEMERAL WUS	0 LF/SF	0 LF/SF
WETLAND BUFFER	0 SF	14,805 SF
100-YEAR FLOODPLAIN	0 SF	0 SF

**WETLAND IMPACT PLATE**

I-95 ETL NORTHBOUND EXTENSION  
 ONSITE MITIGATION PLAN  
 JOHN F. KENNEDY MEMORIAL HIGHWAY  
 BALTIMORE & HARFORD COUNTIES, MARYLAND



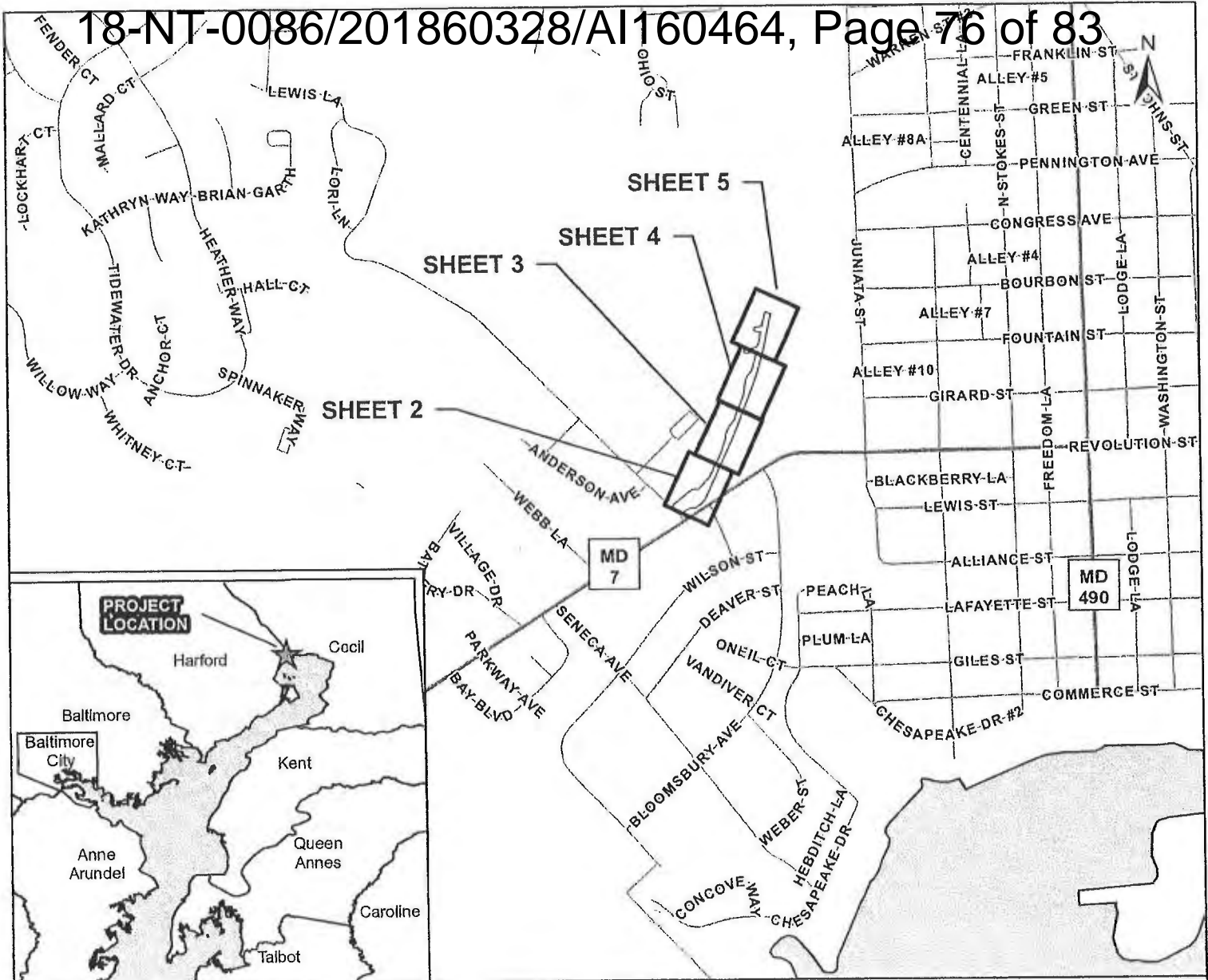
**MARYLAND  
 TRANSPORTATION AUTHORITY**

SCALE: 1" = 60'

CONTRACT NO.: KH-3009, KH-3014

DATE: MAY 2018

PLATE 03 OF 03



Project already permitted under 17-NT-0284/201761320, and currently proposed as mitigation for 201860368/18-NT-0086,

AI160464

**LEGEND**

- State Road
- Local Road
- LOD
- Sheet
- Structure
- Waterbody

**TOTAL IMPACTS**

- FLOODPLAIN: 31,699 SQ FT
- PERMANENT WUS: 748 LF  
7,140 SQ FT
- TEMPORARY WETLAND: TEMP PEM: 8,248 SQ FT
- TEMPORARY WETLAND BUFFER: TEMP PEM: 21,452 SQ FT

**LILLY RUN WETLAND ENHANCEMENTS  
JPA IMPACT PLATES - VICINITY MAP**

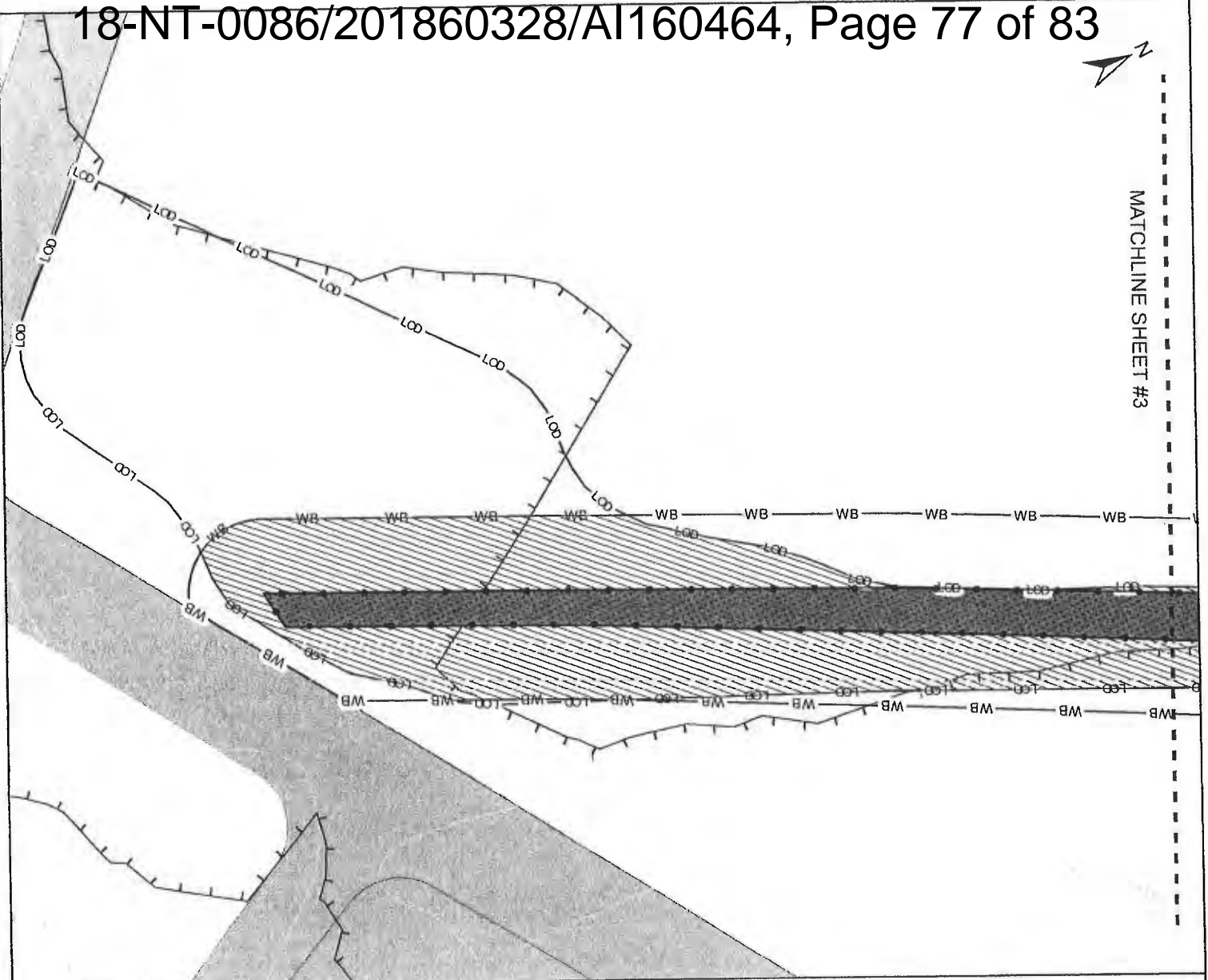
SCALE: 1 INCH = 1,000 FEET  
0 500 1,000 2,000 FEET



COUNTY: HARFORD  
APPLICATION BY: CITY OF HAVRE DE GRACE  
JULY 2017



MATCHLINE SHEET #3



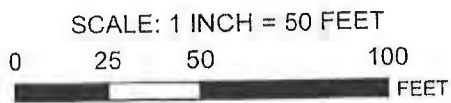
**LEGEND**

- WETLAND BOUNDARY
- WUS— WUS BOUNDARY
- LOD— LOD BOUNDARY
- WB— WETLAND BUFFER
- CONTOUR LINE
- STRUCTURE
- SIDEWALK
- ROAD
- X—X— ASPHALT REMOVAL
- TREE LINE
- MATCHLINE
- 100-YR FLOODPLAIN

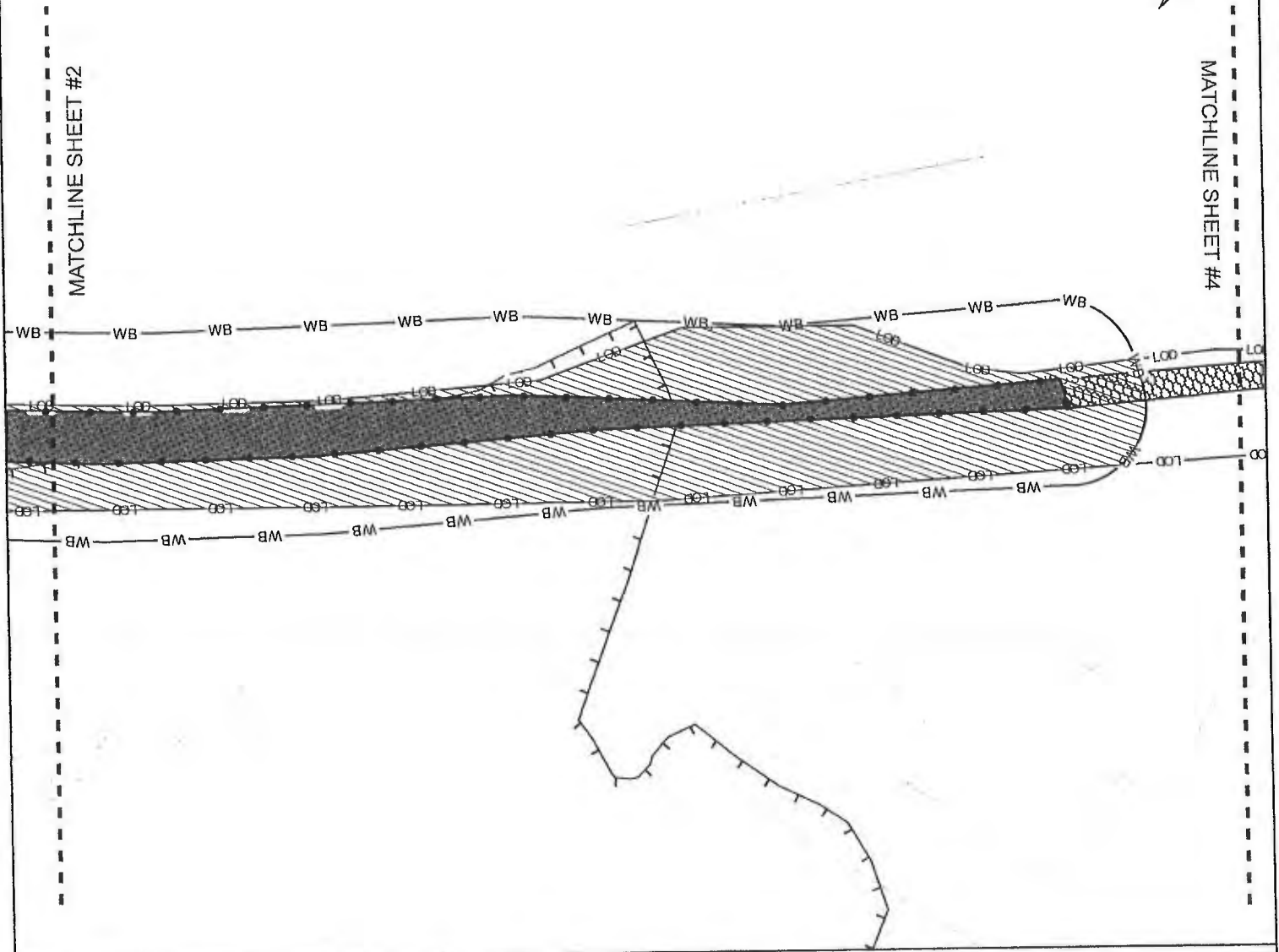
**TOTAL IMPACTS**

- FLOODPLAIN: 31,699 SQ FT
- PERMANENT WUS: 748 LF  
7,140 SQ FT
- TEMPORARY WETLAND: 8,248 SQ FT
- TEMPORARY WETLAND BUFFER: 21,452 SQ FT

**LILLY RUN WETLAND  
ENHANCEMENT  
JPA IMPACT PLATES**



COUNTY: HARFORD  
APPLICATION BY: CITY OF HAVRE DE GRACE  
JULY 2017



**LEGEND**

- WETLAND BOUNDARY
- WUS— WUS BOUNDARY
- LOD— LOD BOUNDARY
- WB— WETLAND BUFFER
- CONTOUR LINE
- STRUCTURE
- SIDEWALK
- ROAD
- X—X— ASPHALT REMOVAL
- TREE LINE
- MATCHLINE
- 100-YR FLOODPLAIN

**TOTAL IMPACTS**



FLOODPLAIN: 31,699 SQ FT



PERMANENT WUS: 748 LF  
7,140 SQ FT



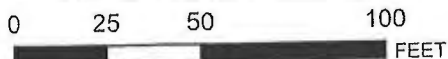
TEMPORARY WETLAND:  
TEMP PEM: 8,248 SQ FT



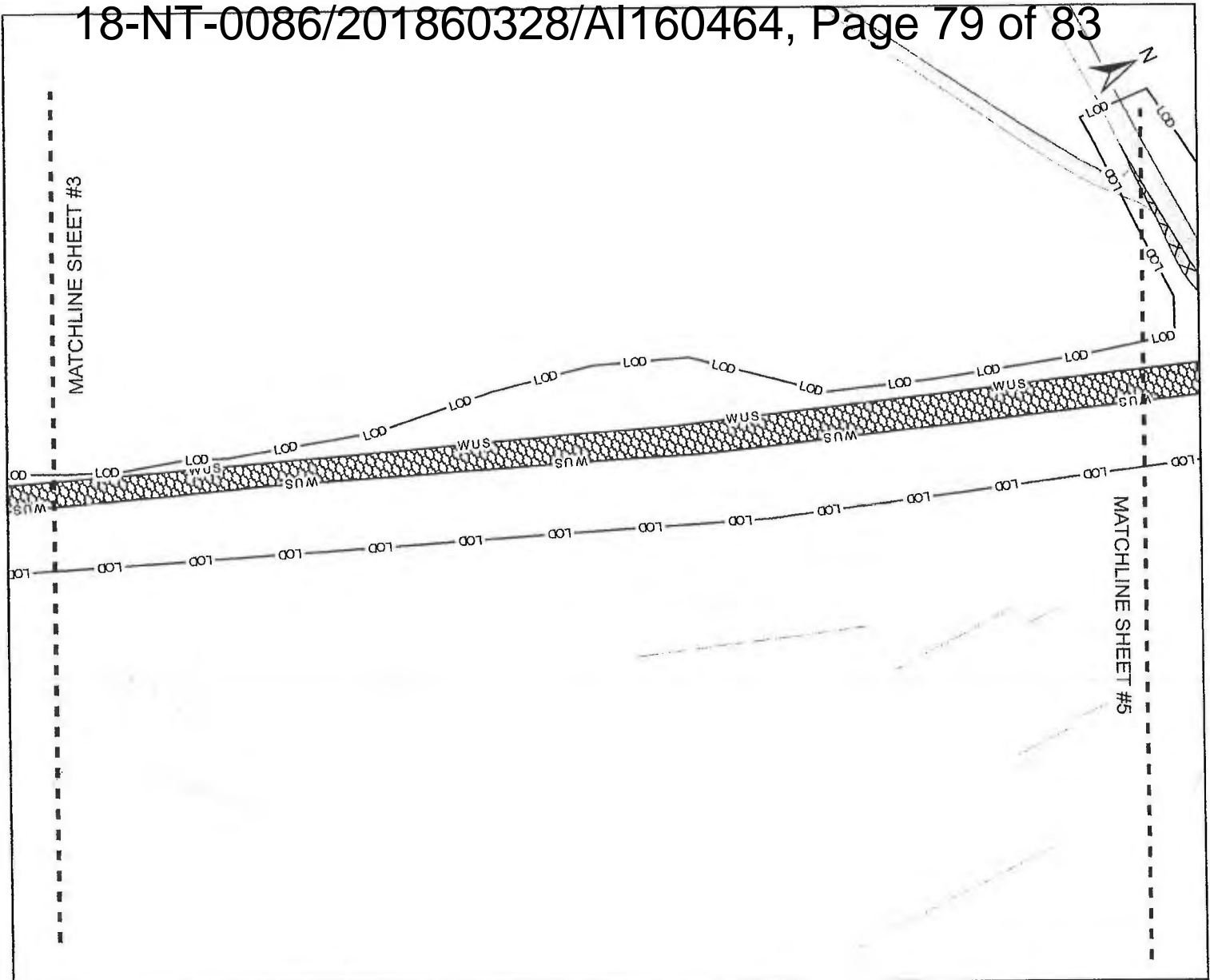
TEMPORARY WETLAND BUFFER:  
TEMP PEM: 21,452 SQ FT

**LILLY RUN WETLAND  
ENHANCEMENT  
JPA IMPACT PLATES**

SCALE: 1 INCH = 50 FEET



COUNTY: HARFORD  
APPLICATION BY: CITY OF  
HAVRE DE GRACE  
JULY 2017



**LEGEND**

- WETLAND BOUNDARY
- WUS— WUS BOUNDARY
- LOD— LOD BOUNDARY
- WB— WETLAND BUFFER
- CONTOUR LINE
- STRUCTURE
- SIDEWALK
- ROAD
- X—X— ASPHALT REMOVAL
- TREE LINE
- - - MATCHLINE
- - - 100-YR FLOODPLAIN

**TOTAL IMPACTS**



FLOODPLAIN: 31,699 SQ FT



PERMANENT WUS: 748 LF  
7,140 SQ FT



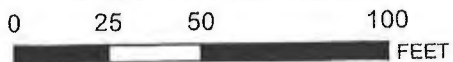
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TEMP PEM: 8,248 SQ FT



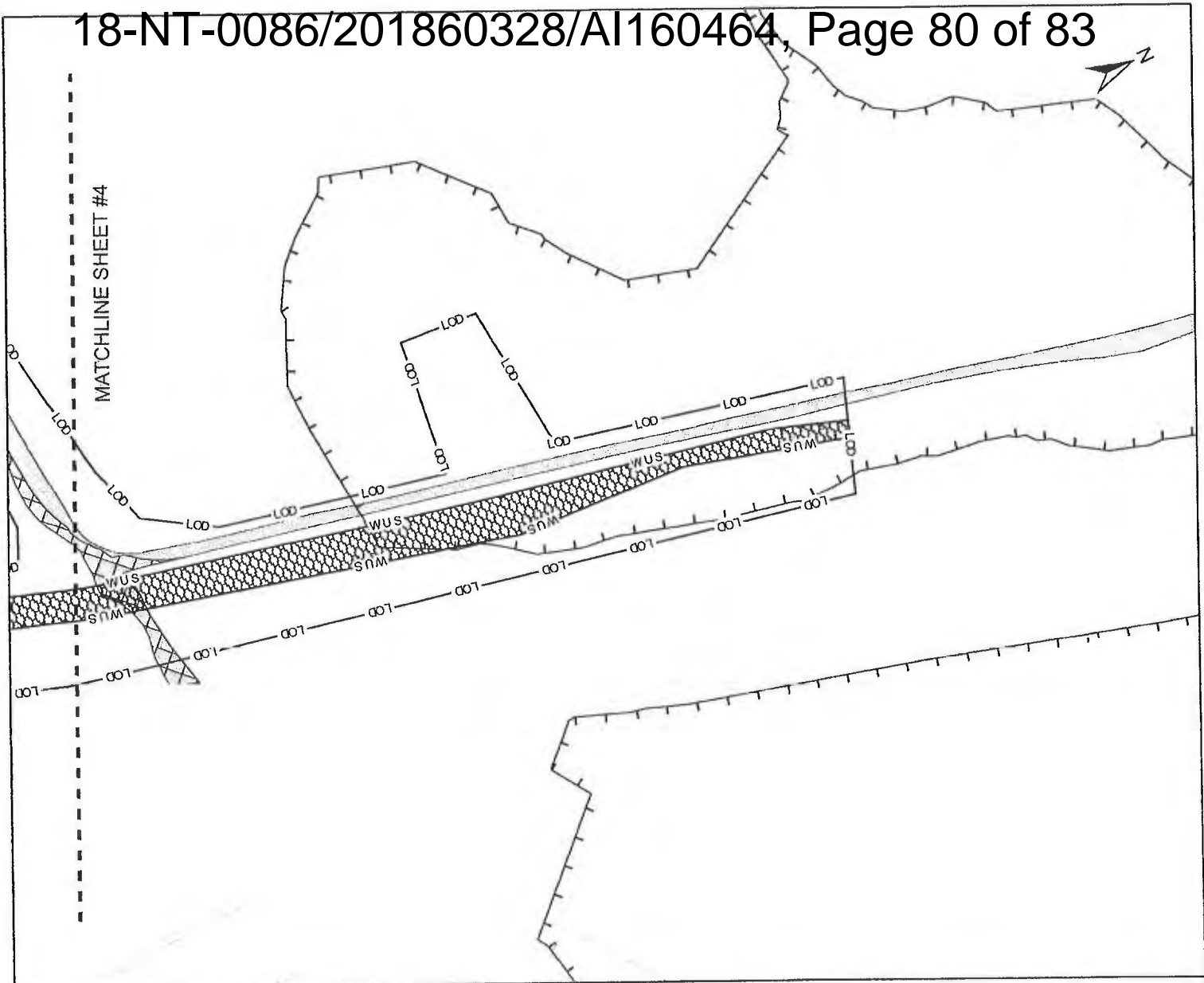
TEMPORARY WETLAND BUFFER:  
TEMP PEM: 21,452 SQ FT

**LILLY RUN WETLAND  
ENHANCEMENT  
JPA IMPACT PLATES**

SCALE: 1 INCH = 50 FEET



COUNTY: HARFORD  
APPLICATION BY: CITY OF  
HAVRE DE GRACE  
JULY 2017



**LEGEND**

- WETLAND BOUNDARY
- WUS— WUS BOUNDARY
- LOD— LOD BOUNDARY
- WB— WETLAND BUFFER
- CONTOUR LINE
- STRUCTURE
- SIDEWALK
- ROAD
- ASPHALT REMOVAL
- TREE LINE
- MATCHLINE
- 100-YR FLOODPLAIN

**TOTAL IMPACTS**



FLOODPLAIN: 31,699 SQ FT



PERMANENT WUS: 748 LF  
7,140 SQ FT



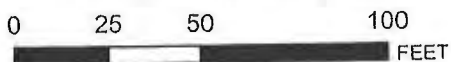
TEMPORARY WETLAND:  
TEMP PEM: 8,248 SQ FT



TEMPORARY WETLAND BUFFER:  
TEMP PEM: 21,452 SQ FT

**LILLY RUN WETLAND  
ENHANCEMENT  
JPA IMPACT PLATES**

SCALE: 1 INCH = 50 FEET



COUNTY: HARFORD  
APPLICATION BY: CITY OF  
HAVRE DE GRACE  
JULY 2017



Wetland	USACE Regulated	MDE Regulated	Mitigation Required	Contract #	Plate #	Classification	Design Stage	Wetland Impacts (SF)		Buffer Impacts (SF)	
								Permanent	Temporary	Permanent	Temporary
<b>I- 95 ETL (New Forge Road to MD 152)</b>											
WET 97A	Y	Y	Y	KH-3009	1	PFO	Preliminary Engineering	3,266	0	4,342	0
WET 30A	N	Y	Y	KH-3009	1	PFO	Preliminary Engineering	0	0	172	0
WET 25A	N	Y	Y	KH-3009	12	PFO	Preliminary Engineering	0	0	12	0
WET 10A	Y	Y	Y	KH-3009	16	PFO/PEM	Preliminary Investigation	1,670	0	9,907	0
WET 11A	N	Y	Y	KH-3009	20	PSS	Preliminary Engineering	728	0	4,473	0
WET C	Y	Y	Y	KH-3009	22	PEM	Preliminary Engineering	293	0	13,318	0
WET C	Y	Y	Y	KH-3009	22	PFO	Preliminary Engineering	417	0		0
WET O	Y	Y	Y	KH-3009	22	PFO	Preliminary Engineering	574	0		0
WET B	Y	Y	Y	KH-3009	22	PFO	Preliminary Engineering	2,350	0		0
WET 18A	N	Y	Y	KH-3009	22	PEM	Preliminary Engineering	0	0	883	0
WET 12A	N	Y	Y	KH-3009	22	PFO	Preliminary Engineering	0	0	182	0
WET 18A	N	Y	Y	KH-3009	23	PEM	Preliminary Engineering	0	0	3,045	0
WET B	Y	Y	Y	KH-3009	23	PFO	Preliminary Engineering	2,872	0	10,603	0
WET B	Y	Y	Y	KH-3009	23	PEM	Preliminary Engineering	2,091	0		0
WET L2	N	Y	Y	KH-3009	23	PEM	Preliminary Engineering	1,346	0	5,631	0
WET 13A	N	Y	Y	KH-3009	24	PEM	Preliminary Engineering	0	0	1,008	0
WET 18A	Y	Y	Y	KH-3009	24	PEM	Preliminary Engineering	938	0	2,563	0
WET L2	N	Y	Y	KH-3009	24	PEM	Preliminary Engineering	6	0	1,159	0
WET L1	N	Y	Y	KH-3009	24	PFO	Preliminary Engineering	1,167	0	4,782	0
WET 18A	Y	Y	Y	KH-3009	25	PEM	Preliminary Engineering	404	0	2,788	0
WET 18A	N	Y	Y	KH-3009	26	PEM	Preliminary Engineering	0	0	2,327	0
WET N	N	Y	Y	KH-3009	26	PEM	Preliminary Engineering	1,318	0	6,070	0
WET 18A	N	Y	Y	KH-3009	27	PEM	Preliminary Engineering	0	0	832	0
<b>I- 95 ETL (MD 152 to MD 24)</b>											
WET H	Y	Y	Y	KH-3010	7	PFO/PEM	Preliminary Engineering	2,197	0	5,135	0
WET L	Y	Y	Y	KH-3010	9	PFO	Preliminary Engineering	0	0	1,247	0
WET S	Y	Y	Y	KH-3010	17	PFO	Preliminary Engineering	0	0	1,113	0
WET S	Y	Y	Y	KH-3010	18	PFO	Preliminary Engineering	900	0	6,690	0
WET X	Y	Y	Y	KH-3010	18	PFO	Preliminary Engineering	841	0		0
WET X	Y	Y	Y	KH-3010	19	PFO	Preliminary Engineering	5,099	0	6,191	0
<b>Carsins Run Mitigation Site</b>											
WL007	Y	Y	N*	TBD	5	PFO	Preliminary Engineering	1,763	5,506	50	2,543
WL007	Y	Y	N*	TBD	6	PFO	Preliminary Engineering	2,031	3,666	556	1,792
<b>Onsite Mitigation (WUS 18A &amp; WUS 32A/33A)</b>											
WET 100	N	Y	N*	TBD	1	PEM	Preliminary Engineering	0	0	97	0
WET 103	Y	Y	N*	TBD	2	PEM	Preliminary Engineering	10,534	0	24,942	0
WET 20A	Y	Y	N*	TBD	2	PFO	Preliminary Engineering	165	0	0	0
WET 20A	Y	Y	N*	TBD	3	PFO	Preliminary Engineering	9,581	0	14,805	0
WET 93A	Y	Y	N*	TBD	3	PFO	Preliminary Engineering	218	0		0
<b>USACE Regulated Wetland Totals</b>											
<b>Total PEM</b>								<b>14,260</b>	<b>0</b>	<b>N/A</b>	<b>N/A</b>
<b>Total PFO</b>								<b>30,077</b>	<b>9,172</b>	<b>N/A</b>	<b>N/A</b>
<b>Total PSS</b>								<b>0</b>	<b>0</b>	<b>N/A</b>	<b>N/A</b>
<b>Total PFO/PEM</b>								<b>3,867</b>	<b>0</b>	<b>N/A</b>	<b>N/A</b>
<b>USACE TOTAL</b>								<b>48,204</b>	<b>9,172</b>	<b>N/A</b>	<b>N/A</b>
<b>MDE Regulated Wetland Totals</b>											
<b>Total PEM</b>								<b>16,930</b>	<b>0</b>	<b>64,663</b>	<b>0</b>
<b>Total PFO</b>								<b>31,244</b>	<b>9,172</b>	<b>50,745</b>	<b>4,335</b>
<b>Total PSS</b>								<b>728</b>	<b>0</b>	<b>4,473</b>	<b>0</b>
<b>Total PFO/PEM</b>								<b>3,867</b>	<b>0</b>	<b>15,042</b>	<b>0</b>
<b>MDE TOTAL</b>								<b>52,769</b>	<b>9,172</b>	<b>134,923</b>	<b>4,335</b>
*Permanent impacts will be replaced on-site through wetland creation.											

<b>Total Impacts Requiring Mitigation</b>	
<b>USACE Impacts Requiring Mitigation</b>	
PEM	3,726
PFO	16,319
PSS	0
PFO/PEM	3,867
<b>USACE TOTAL</b>	<b>23,912</b>
<b>MDE Impacts Requiring Mitigation</b>	
PEM	6,396
PFO	17,486

PSS		728
PFO/PEM		3,867
MDE TOTAL		28,477

Waterway	USACE	MDE	Mitigation Required	Contract #	Plate #	Classification	Design Stage	Permanent Stream Impacts		Temporary Stream Impacts		Permanent Floodplain Impacts	Temporary Floodplain Impacts
	Regulated	Regulated						LF	SF	LF	SF	SF	SF
<b>I-95 ETL New Forge Road to MD 152</b>													
WUS 44A	Y	N	N	KH-3009	1	Ephemeral	Preliminary Engineering	61	331	0	0	0	0
WUS 43A	Y	Y	Y	KH-3009	1	Perennial	Preliminary Engineering	60	1,562	0	0	0	0
WUS 42A	Y	Y	Y	KH-3009	1	Intermittent	Preliminary Engineering	198	863	0	0	0	0
100-YR Floodplain	N	Y	N	KH-3009	1	100-YR FP	Preliminary Engineering	0	0	0	0	34,932	0
WUS 42A	Y	Y	Y	KH-3009	2	Intermittent	Preliminary Engineering	435	1,787	0	0	0	0
100-YR Floodplain	N	Y	N	KH-3009	2	100-YR FP	Preliminary Engineering	0	0	0	0	100,190	0
WUS 42A	Y	Y	Y	KH-3009	3	Intermittent	Preliminary Engineering	15	72	0	0	0	0
100-YR Floodplain	N	Y	N	KH-3009	3	100-YR FP	Preliminary Engineering	0	0	0	0	42,269	0
100-YR Floodplain	N	Y	N	KH-3009	4	100-YR FP	Preliminary Engineering	0	0	0	0	9,212	0
WUS 6A (Big Gunpowder)	Y	Y	Y	KH-3009	5	Perennial	Preliminary Engineering	64	8,733	0	0	0	0
WUS B	Y	N	N	KH-3009	6	Ephemeral	Preliminary Engineering	350	339	0	0	0	0
WUS B	Y	N	N	KH-3009	7	Ephemeral	Preliminary Engineering	400	406	0	0	0	0
WUS 7A	Y	N	Y	KH-3009	8	Ephemeral	Preliminary Engineering	39	240	0	0	0	0
WUS 8A	Y	N	N	KH-3009	9	Ephemeral	Preliminary Engineering	297	1,186	0	0	0	0
WUS 9A	Y	Y	Y	KH-3009	9	Perennial	Preliminary Engineering	62	789	0	0	0	0
WUS 11A	Y	Y	Y	KH-3009	10	Perennial	Preliminary Engineering	71	509	0	0	0	0
WUS C	Y	N	N	KH-3009	10	Ephemeral	Preliminary Engineering	292	651	0	0	0	0
WUS 12A	Y	Y	Y	KH-3009	11	Perennial	Preliminary Engineering	70	372	0	0	0	0
WUS 13A	Y	Y	Y	KH-3009	13	Intermittent	Preliminary Engineering	136	654	0	0	0	0
WUS 14A	Y	Y	Y	KH-3009	14	Perennial	Preliminary Engineering	58	830	0	0	0	0
WUS 15A	Y	N	N	KH-3009	14	Ephemeral	Preliminary Engineering	52	170	0	0	0	0
WUS 19A	Y	N	Y	KH-3009	15	Ephemeral	Preliminary Engineering	245	768	0	0	0	0
100-YR Floodplain	N	Y	N	KH-3009	16	100-YR FP	Preliminary Engineering	0	0	0	0	7,621	0
WUS 16A (Little Gunpowder)	Y	Y	Y	KH-3009	16	Perennial	Preliminary Engineering	66	2740	0	0	0	0
WUS D	Y	N	N	KH-3009	17	Ephemeral	Preliminary Engineering	202	703	0	0	0	0
WUS 18A	Y	Y	Y	KH-3009	17	Perennial	Preliminary Engineering	192	1,042	0	0	0	0
WUS 18A	Y	Y	Y	KH-3009	18	Perennial	Preliminary Engineering	251	1,894	0	0	0	0
WUS 18A	Y	Y	Y	KH-3009	18	Intermittent	Preliminary Engineering	179	769	0	0	0	0
WUS 18A	Y	Y	Y	KH-3009	19	Intermittent	Preliminary Engineering	135	559	0	0	0	0
WUS Y	Y	N	N	KH-3009	20	Ephemeral	Preliminary Engineering	237	746	0	0	0	0
WUS E	Y	N	N	KH-3009	21	Ephemeral	Preliminary Engineering	80	60	0	0	0	0
WUS 20A	Y	Y	Y	KH-3009	22	Perennial	Preliminary Engineering	97	1,045	0	0	0	0
WUS 21A	Y	N	N	KH-3009	22	Ephemeral	Preliminary Engineering	106	410	0	0	0	0
WUS 13A-b	Y	N	N	KH-3009	24	Ephemeral	Preliminary Engineering	42	336	0	0	0	0
<b>I-95 ETL MD 152 to MD 24</b>													
Waters E	Y	Y	Y	KH-3010	3	Intermittent	Preliminary Engineering	98	602	0	0	0	0
Waters F	Y	Y	Y	KH-3010	4	Perennial	Preliminary Engineering	35	180	0	0	0	0
Waters F	Y	Y	Y	KH-3010	5	Perennial	Preliminary Engineering	48	328	0	0	0	0
Waters G	Y	Y	Y	KH-3010	5	Perennial	Preliminary Engineering	71	527	0	0	0	0
Waters I	Y	Y	Y	KH-3010	6	Intermittent	Preliminary Engineering	108	423	0	0	0	0
Waters J	Y	Y	Y	KH-3010	6	Perennial	Preliminary Engineering	81	311	0	0	0	0
Waters K	Y	Y	Y	KH-3010	8	Intermittent	Preliminary Engineering	58	487	0	0	0	0
Waters M	Y	Y	Y	KH-3010	10	Perennial	Preliminary Engineering	99	943	0	0	0	0
Waters N	Y	Y	Y	KH-3010	11	Intermittent	Preliminary Engineering	73	477	0	0	0	0
Waters V	Y	Y	Y	KH-3010	12	Intermittent	Preliminary Engineering	177	690	0	0	0	0
100-YR Floodplain	N	Y	N	KH-3010	12	100-YR FP	Preliminary Engineering	0	0	0	0	22,495	0
Waters V	Y	Y	Y	KH-3010	13	Intermittent	Preliminary Engineering	213	1,173	0	0	0	0
100-YR Floodplain	N	Y	N	KH-3010	13	100-YR FP	Preliminary Engineering	0	0	0	0	17,875	0
Waters V	Y	Y	Y	KH-3010	14	Intermittent	Preliminary Engineering	213	1,035	0	0	0	0
100-YR Floodplain	N	Y	N	KH-3010	14	100-YR FP	Preliminary Engineering	0	0	0	0	16,168	0
Waters V	Y	Y	Y	KH-3010	15	Intermittent	Preliminary Engineering	213	1,110	0	0	0	0
100-YR Floodplain	N	Y	N	KH-3010	15	100-YR FP	Preliminary Engineering	0	0	0	0	3,926	0
Waters V	Y	Y	Y	KH-3010	16	Intermittent	Preliminary Engineering	213	1,891	0	0	0	0
Waters V	Y	Y	Y	KH-3010	17	Intermittent	Preliminary Engineering	216	1,429	0	0	0	0
<b>Carsins Run Mitigation Site</b>													
WL003	Y	Y	N	TBD	5	Intermittent	Preliminary Engineering	54	394	0	0	0	0
WL003	Y	Y	N	TBD	6	Intermittent	Preliminary Engineering	319	2,120	0	0	0	0
WL003	Y	Y	N	TBD	7	Intermittent	Preliminary Engineering	460	3,461	0	0	0	0
100-YR Floodplain	N	Y	N	TBD	7	100-YR FP	Preliminary Engineering	0	0	0	0	0	621
WL001	Y	Y	N	TBD	8	Perennial	Preliminary Engineering	0	0	142	4,612	0	0
WL002	Y	N	N	TBD	8	Ephemeral	Preliminary Engineering	13	118	0	0	0	0
100-YR Floodplain	N	Y	N	TBD	8	100-YR FP	Preliminary Engineering	0	0	0	0	0	4,309
WL001	Y	Y	N	TBD	9	Perennial	Preliminary Engineering	0	0	255	7,169	0	0
WL003	Y	Y	N	TBD	9	Intermittent	Preliminary Engineering	95	604	0	0	0	0
WL004	Y	N	N	TBD	9	Ephemeral	Preliminary Engineering	136	1,343	0	0	0	0
100-YR Floodplain	N	Y	N	TBD	9	100-YR FP	Preliminary Engineering	0	0	0	0	0	13,010
<b>MD 7 Fish Passage Site</b>													
WL003	Y	Y	N	TBD	4	Perennial	Preliminary Engineering	0	0	27	165	0	0
100-YR Floodplain	N	Y	N	TBD	4	100-YR FP	Preliminary Engineering	0	0	0	0	0	1,189
WL001	Y	Y	N	TBD	5	Perennial	Preliminary Engineering	80	1,465	22	609	0	0
100-YR Floodplain	N	Y	N	TBD	5	100-YR FP	Preliminary Engineering	0	0	0	0	0	7,526
<b>Onsite Mitigation (WUS 18A &amp; WUS 32A/33A)</b>													
WUS 32A	Y	Y	N	TBD	1	Intermittent	Preliminary Engineering	192	1,711	0	0	0	0
WUS 32A	Y	N	N	TBD	1	Ephemeral	Preliminary Engineering	390	1,672	0	0	0	0
WUS 33A	Y	N	N	TBD	1	Ephemeral	Preliminary Engineering	161	1,477	0	0	0	0
WUS 18A	Y	Y	N	TBD	2	Perennial	Preliminary Engineering	417	5,088	0	0	0	0
WUS 18A	Y	Y	N	TBD	3	Perennial	Preliminary Engineering	264	3,396	0	0	0	0
<b>USACE Regulated Waterway Totals</b>													
Total Perennial								2,086	31,754	446	12,555	N/A	N/A
Total Intermittent								3,800	22,311	0	0	N/A	N/A
Total Ephemeral								3,103	10,956	0	0	N/A	N/A
USACE TOTAL								8,989	65,021	446	12,555	N/A	N/A
<b>MDE Regulated Waterway Totals</b>													
Total Perennial								2,086	31,754	446	12,555	N/A	N/A
Total Intermittent								3,800	22,311	0	0	N/A	N/A
Total Floodplain								N/A	N/A	N/A	N/A	254,688	26,655
MDE TOTAL								5,886	54,065	446	12,555	N/A	N/A

Total Impacts Requiring Mitigation		
<b>USACE Impacts Requiring Mitigation</b>		
Perennial		1,325
Intermittent		2,680
Ephemeral		284
USACE TOTAL		4,289
<b>MDE Impacts Requiring Mitigation</b>		
Perennial		1,325
Intermittent		2,680
MDE TOTAL		4,005