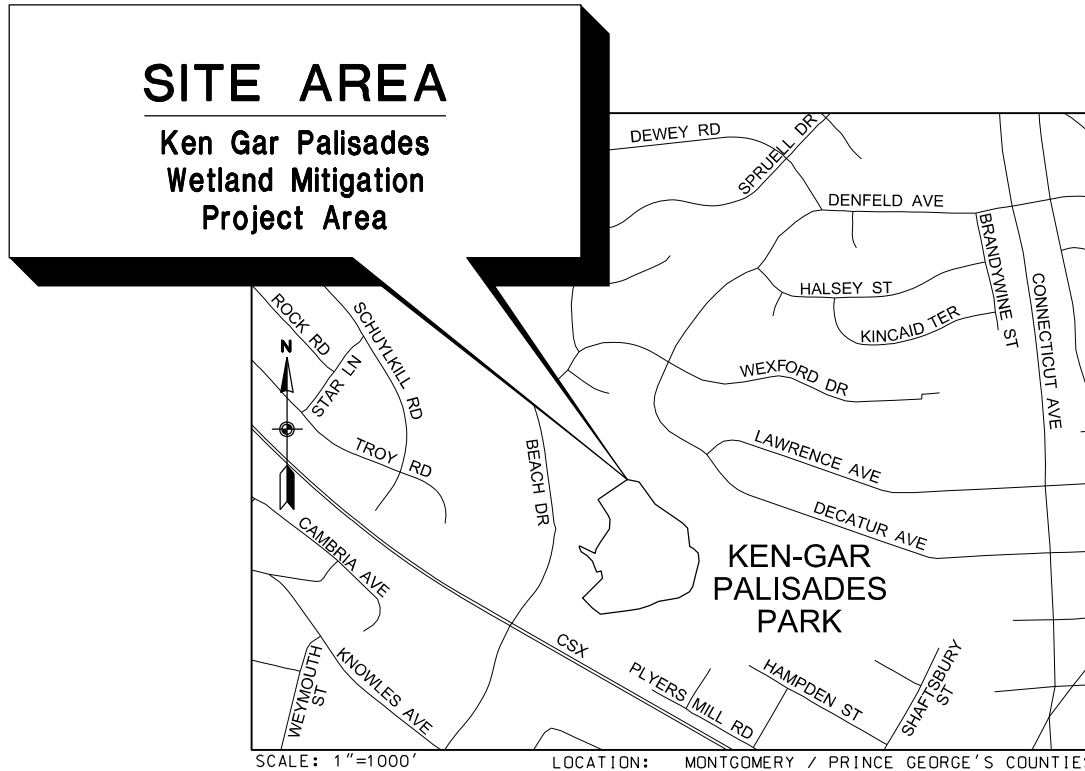


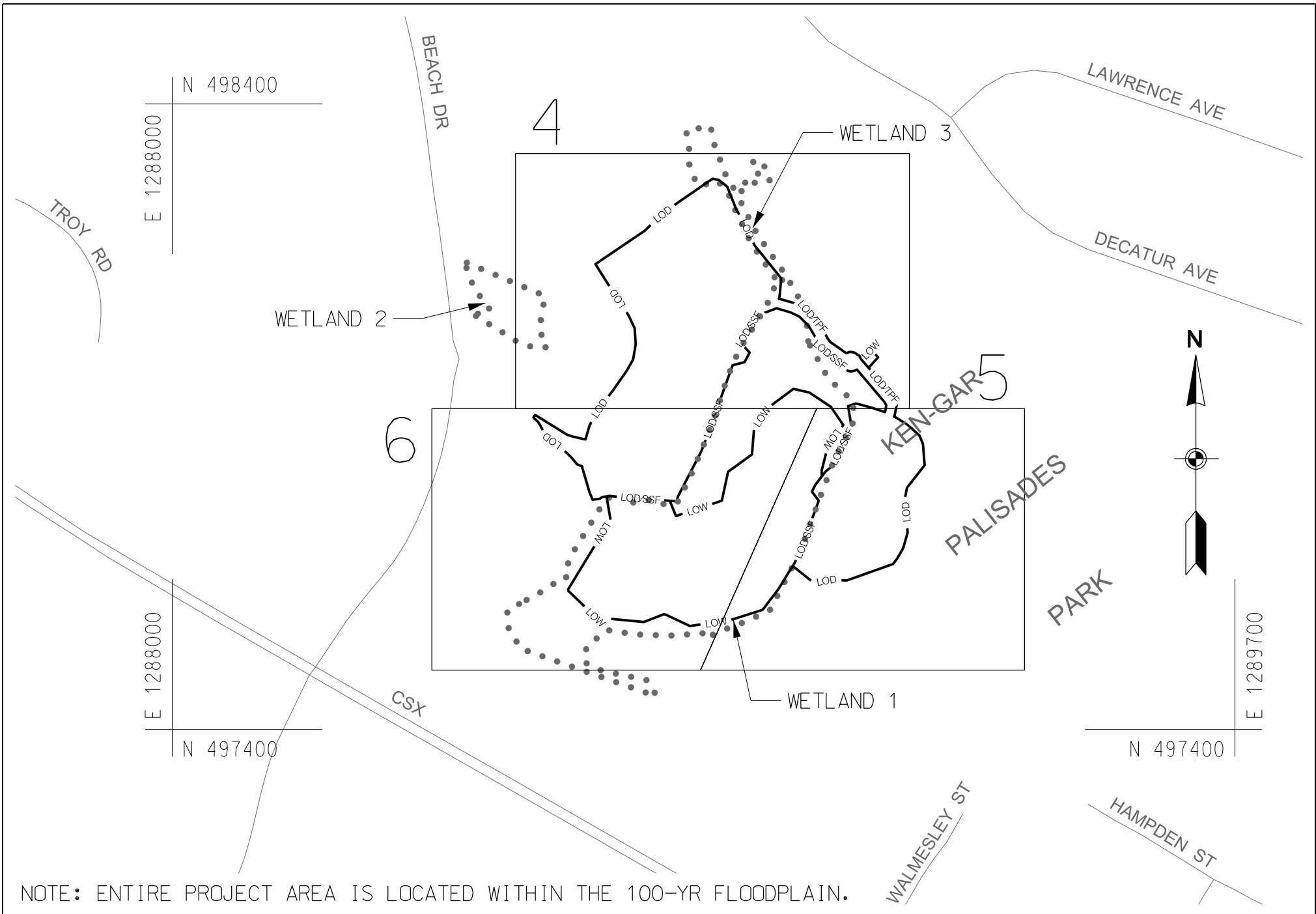


MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
 FACILITIES ENGINEERING, ADA & SUSTAINABILITY DIVISION
KEN GAR PALISADES WETLAND MITIGATION
 CONTRACT NO. T-1042-0220



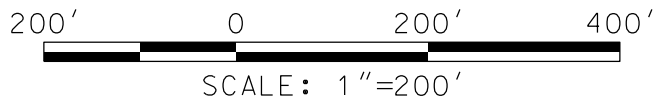
VICINITY MAP

 General Engineering Consultant Team <small>100 North Charles Street, 8th Floor ■ Baltimore, MD 21202 P: 410-244-6046</small>	CONTRACT NO. T-1042-0220
	DRAWING NO. TI-0700
	SHEET NO. 1 OF 6





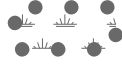

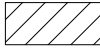
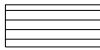



NOTE: ENTIRE PROJECT AREA IS LOCATED WITHIN THE 100-YR FLOODPLAIN.

	MARYLAND DEPARTMENT OF TRANSPORTATION	



<small>APPROVED</small> <small>CHECKED</small> <small>DRAWN</small> <small>DESIGN</small>	DRS	PURPLE LINE LIGHT RAIL KEN-GAR PALISADES WETLAND MITIGATION	CONTRACT NO. T-1042-0220
	SCN		DRAWING NO. KEY MAP
	MJF	IMPACT PLATE KEY SHEET	SHEET NO.
	MJF	DATE:	SCALE: 1"=200'

LEGEND

LIMIT OF WORK		LOW
LIMIT OF DISTURBANCE		LOD
EXISTING WETLAND		
WETLAND BUFFER		B
TEMPORARY WETLAND IMPACT		
WETLAND BUFFER IMPACT		
MEADOW AREA		
TREE PROTECTION FENCE		TPF
SUPER SILT FENCE		SSF

SUMMARY TABLE OF IMPACTS BY SHEET						
SHEET	TEMPORARY WETLAND		WETLAND BUFFER		FLOODPLAIN	
	(SF)	(AC)	(SF)	(AC)	(SF)	(AC)
4	3701	0.09	11187	0.26	70063	1.61
5	20393	0.47	7128	0.16	29669	0.68
6	60607	1.39	6513	0.15	37561	0.86
TOTAL	84701	1.94	24828	0.57	137293	3.15



MARYLAND DEPARTMENT OF TRANSPORTATION



APPROVED
CHECKED
DRAWN
DESIGN

DRS
SCN
MJF
MJF

PURPLE LINE LIGHT RAIL
KEN-GAR PALISADES
WETLAND MITIGATION

IMPACT PLATE LEGEND

DATE: SCALE: N/A

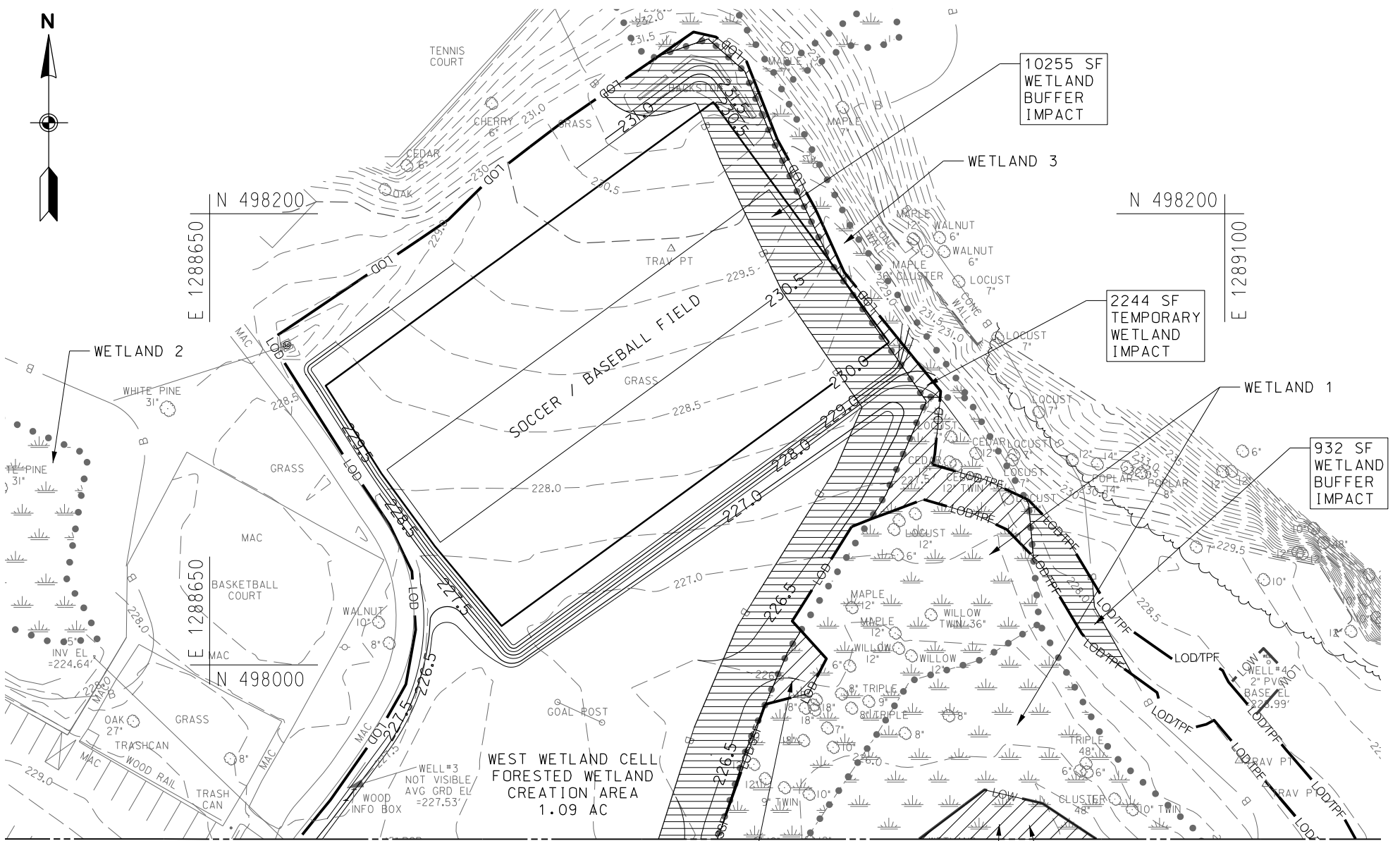
CONTRACT NO.
T-1042-0220

DRAWING NO.

LEGEND

SHEET NO.

3 OF 6



MATCH TO PLATE 6

MATCH TO PLATE 5

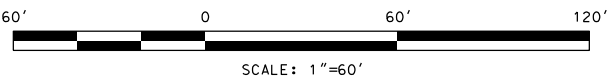
LEGEND OF WETLAND AND WATERS IMPACTS

- LIMITS OF DISTURBANCE — LOD —
- EXISTING WETLAND
- WETLAND BUFFER — B —
- IMPACTS:
- 100-YR FLOODPLAIN 70063 SF / 1.61 AC
- TEMPORARY WETLAND 3701 SF / 0.09 AC
- WETLAND BUFFER 11187 SF / 0.26 AC



471 SF
TEMPORARY
WETLAND
IMPACT

986 SF
TEMPORARY
WETLAND
IMPACT



APPR CHECK DRAWN DESIGN MJF MJF DRS SCN	PURPLE LINE LIGHT RAIL KEN-GAR PALISADES WETLAND MITIGATION	CONTRACT NO. T-1042-0220
	IMPACT PLATE	DRAWING NO. EF-0701
	DATE:	SCALE: 1"=60' SHEET NO. 4 OF 6

MATCH TO PLATE 4

N 497900

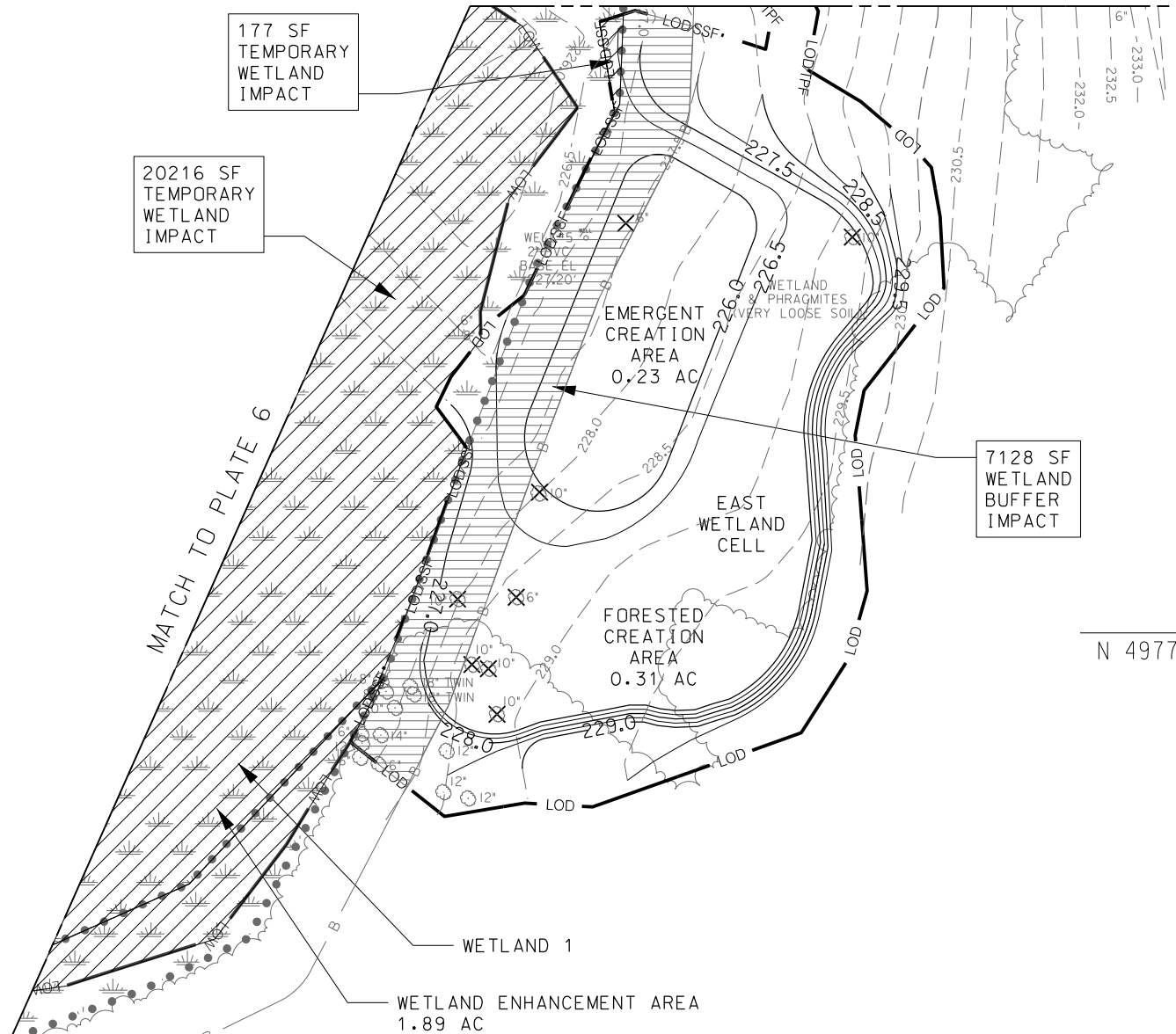
E 1288800

E 1288800

N 497700

N 497700

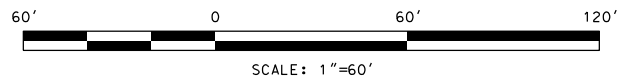
E 1289300



LEGEND OF WETLAND AND WATERS IMPACTS

- LIMITS OF DISTURBANCE LOD
- EXISTING WETLAND EXISTING WETLAND
- WETLAND BUFFER B

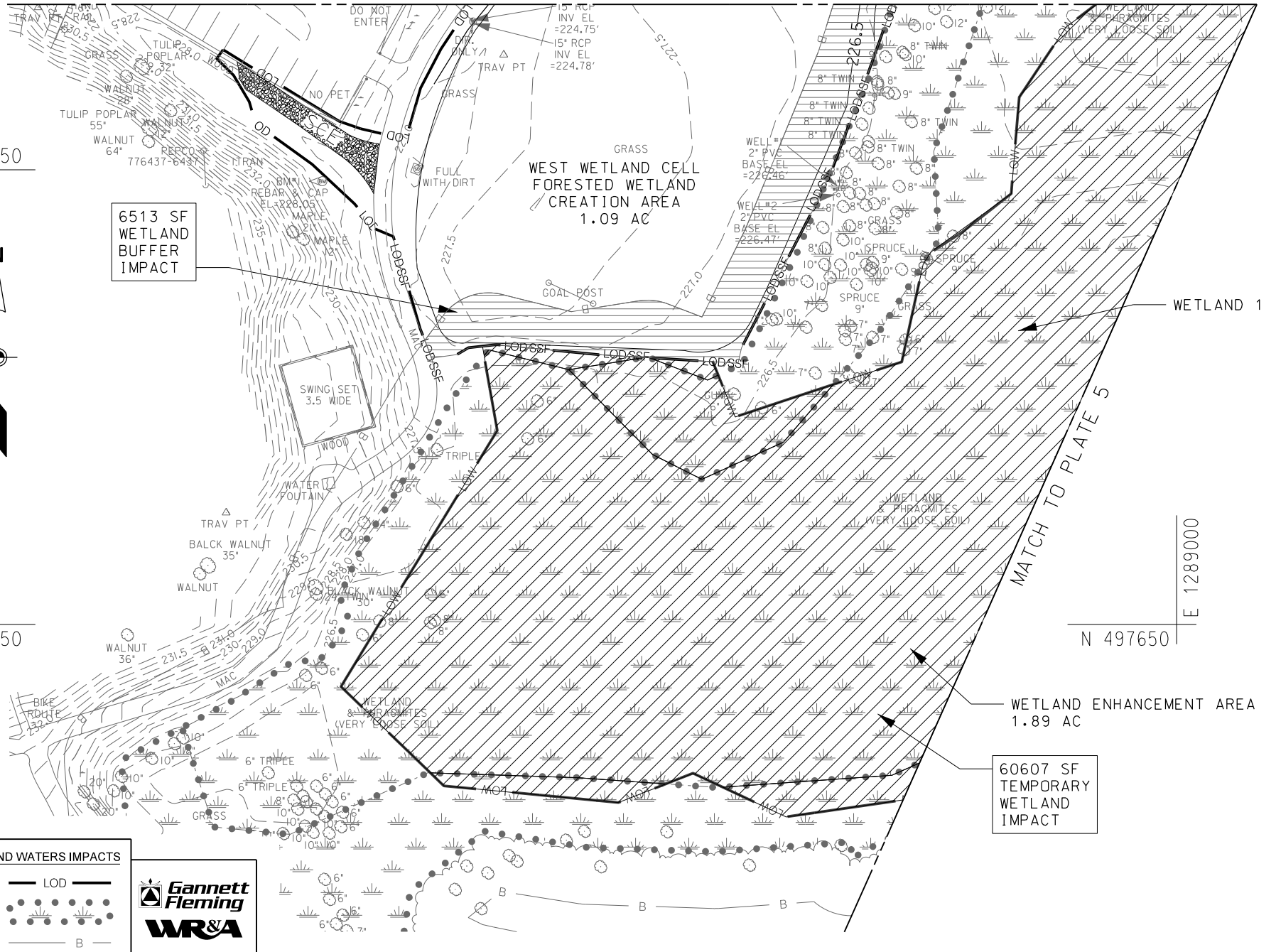
- IMPACTS:**
- 100-YR FLOODPLAIN 29669 SF / 0.68 AC
 - TEMPORARY WETLAND 20393 SF / 0.47 AC
 - WETLAND BUFFER 7128 SF / 0.16 AC



LAYER CHECK DRAWING DESIGN	DRS	PURPLE LINE LIGHT RAIL KEN-GAR PALISADES WETLAND MITIGATION	CONTRACT NO. T-1042-0220
	SCN		DRAWING NO. EF-0702
	MJF		SHEET NO. 5 OF 6
MJF	DATE:	SCALE: 1"=60'	

MATCH TO PLATE 4

N 497850
E 1288450
N
E 1288450
N 497650



6513 SF
WETLAND
BUFFER
IMPACT

SWING SET
3.5 WIDE

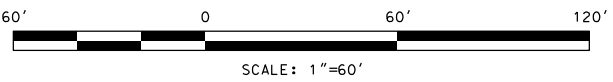
WEST WETLAND CELL
FORESTED WETLAND
CREATION AREA
1.09 AC

60607 SF
TEMPORARY
WETLAND
IMPACT

WETLAND ENHANCEMENT AREA
1.89 AC

LEGEND OF WETLAND AND WATERS IMPACTS

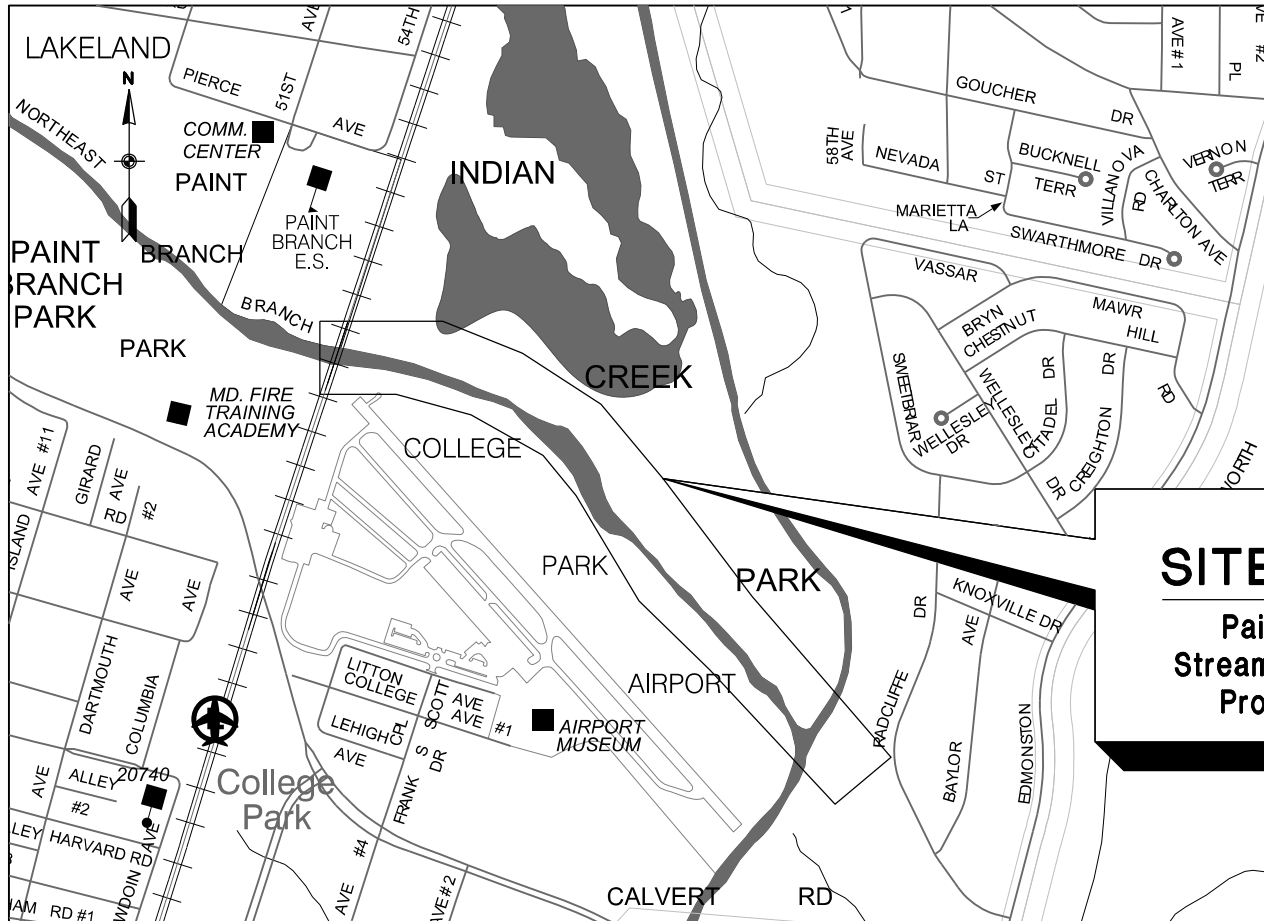
- LIMITS OF DISTURBANCE — LOD —
- EXISTING WETLAND
- WETLAND BUFFER — B —
- IMPACTS:
- 100-YR FLOODPLAIN 37561 SF / 0.86 AC
- TEMPORARY WETLAND 60607 SF / 1.39 AC
- WETLAND BUFFER 6513 SF / 0.15 AC



APPROVED CHECKED DRAWING DESIGN DRS SCN MJF MJF	PURPLE LINE LIGHT RAIL KEN-GAR PALISADES WETLAND MITIGATION	CONTRACT NO. T-1042-0220
	IMPACT PLATE	DRAWING NO. EF-0703
	DATE:	SCALE: 1"=60' SHEET NO. 6 OF 6



MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
 FACILITIES ENGINEERING, ADA & SUSTAINABILITY DIVISION
PAINT BRANCH STREAM MITIGATION
 CONTRACT NO. T-1042-XX40

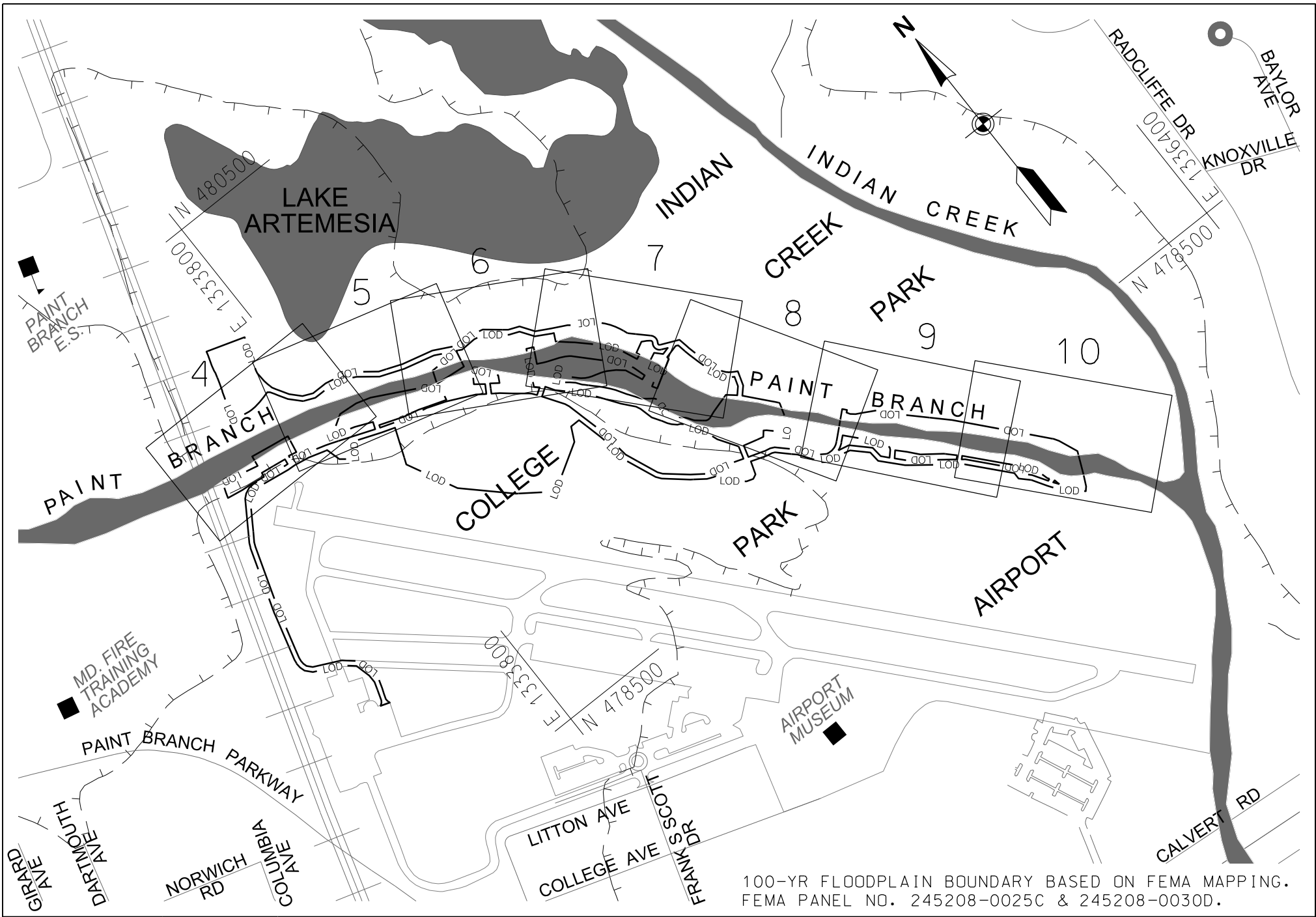


SCALE: 1"=1000'

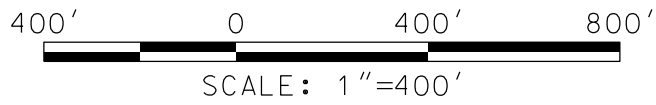
LOCATION: MONTGOMERY / PRINCE GEORGE'S COUNTIES

VICINITY MAP

 General Engineering Consultant Team <small>100 North Charles Street, 8th Floor ■ Baltimore, MD 21202 P: 410-244-6046</small>	CONTRACT NO. T-1042-XX40
	DRAWING NO. VICINITY MAP
	SHEET NO. 1 OF 10









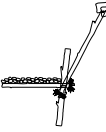

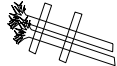
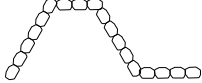


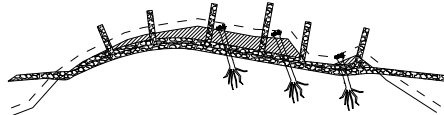
100-YR FLOODPLAIN BOUNDARY BASED ON FEMA MAPPING.
 FEMA PANEL NO. 245208-0025C & 245208-0030D.



APPR CHECK DRAWING DESIGN	KLJ	PURPLE LINE PAINT BRANCH STREAM RESTORATION	CONTRACT NO. T-1042-XX40
	LLW		DRAWING NO. KEY MAP
	ETK	IMPACT PLATE KEY SHEET	SHEET NO. 2 OF 10
	ETK		DATE:

LEGEND

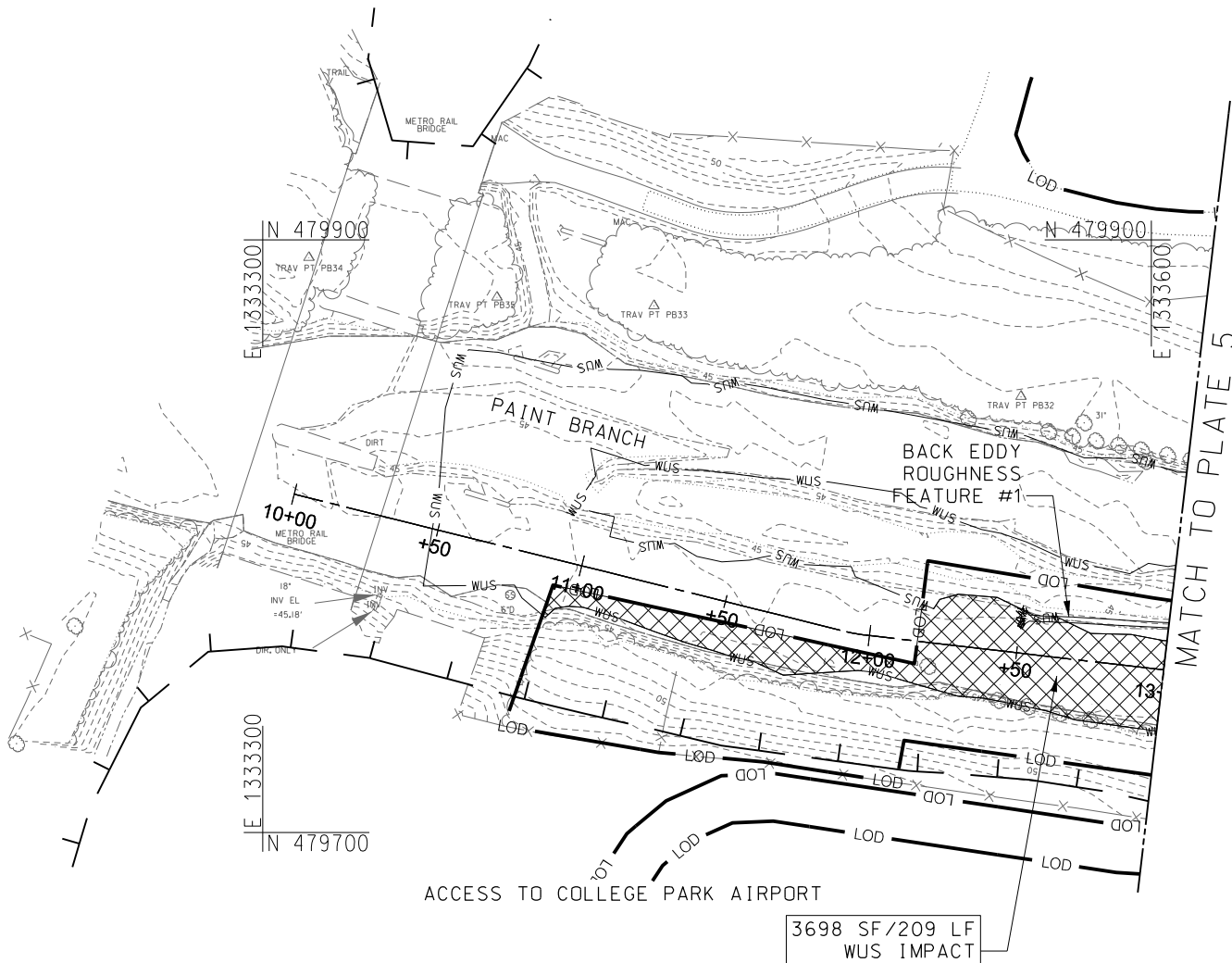
- LIMIT OF DISTURBANCE  LOD
- 100-YEAR FLOODPLAIN  100-YR FLOODPLAIN
- WATERS OF THE US  WUS
- WATERS OF THE US IMPACT  WATERS OF THE US IMPACT

- SOIL STABILIZATION MATTING 
- RIFFLE POOL SEQUENCE FEATURE (RPSF) 
- BRANCHED LOG VANE 
- BACK EDDY ROUGHNESS FEATURE 
- ENGINEERED LOG JAM 
- ROCK CROSS VANE 
- LOG VANE 
- LOG CROSS VANE 
- LONGITUDINAL FILL STONE TOE PROTECTION (LFSTP) 

SUMMARY TABLE OF IMPACTS BY SHEET				
SHEET	100-YR FLOODPLAIN		WATERS OF THE US	
	(SF)	(AC)	(SF)	(LF)
4	32868	0.75	3698	209
5	32486	0.75	5903	250
6	34289	0.79	7802	333
7	28426	0.65	21963	656
8	23053	0.53	20885	305
9	25628	0.59	23705	385
10	28150	0.65	24091	407
TOTAL	204900	4.71	108047	2585



APPR CHECK DRAWN DESIGN ETK ETK LLW KLJ	PURPLE LINE PAINT BRANCH STREAM RESTORATION	CONTRACT NO. T-1042-XX40
	IMPACT PLATE LEGEND	DRAWING NO. LEGEND
	DATE:	SHEET NO. 3 OF 10
	SCALE: 1" = 500'	



LEGEND OF WETLAND AND WATERS IMPACTS

- LIMITS OF DISTURBANCE **— LOD —**
- 100-YR FLOODPLAIN **— T —**
- WATERS OF THE US **— WUS —**

IMPACTS:

100-YR FLOODPLAIN 32868 SF / 0.75 AC

WATERS OF THE US 3698 SF / 209 LF



MARYLAND DEPARTMENT OF TRANSPORTATION



SCALE: 1"=60'

LAYER CHECK DRAWING DESIGN
KLJ
LLW
ETK
ETK

PURPLE LINE
PAINT BRANCH
STREAM RESTORATION

IMPACT PLATE

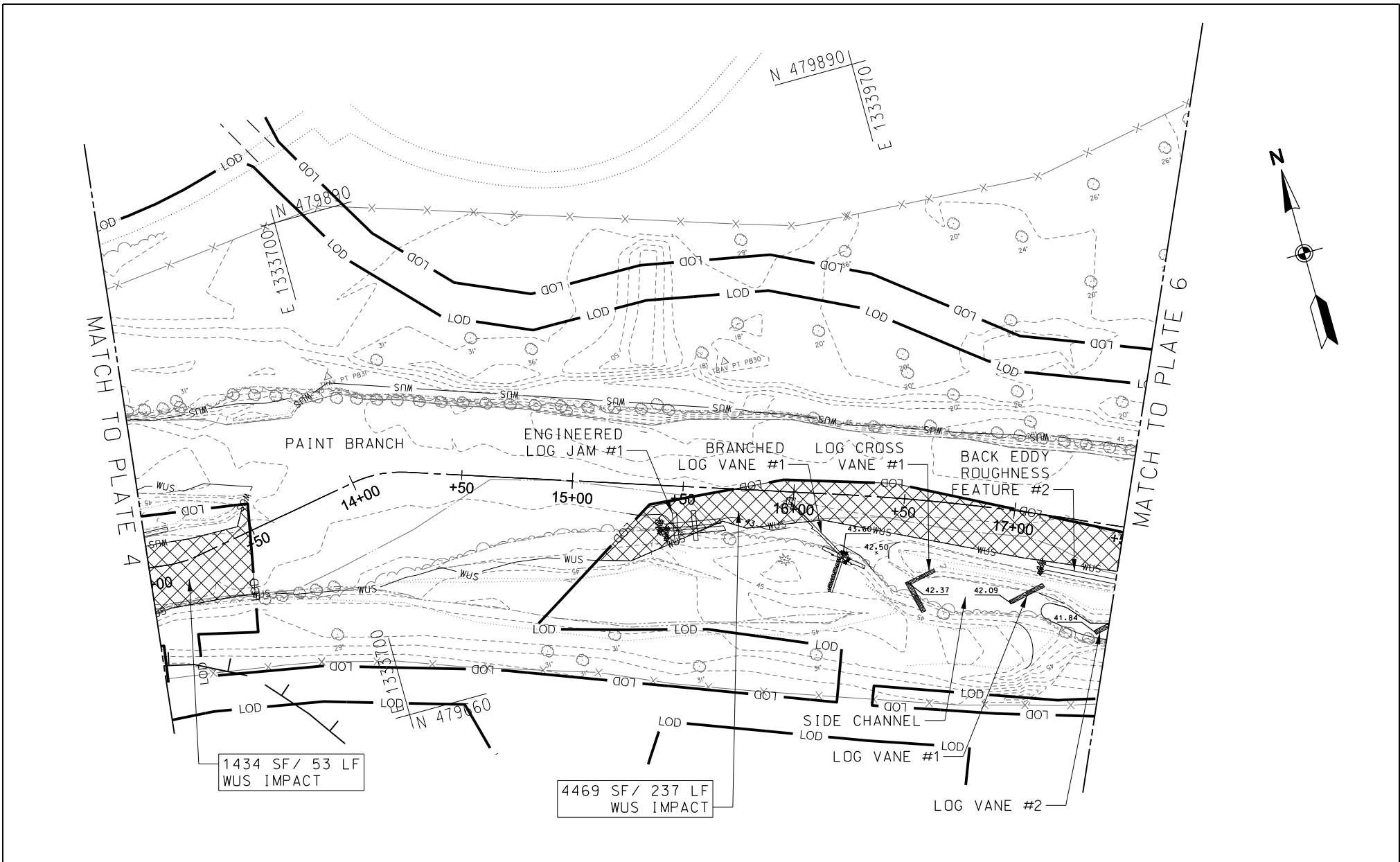
DATE:

SCALE: 1"=60'

CONTRACT NO.
T-1042-XX40

DRAWING NO.
EF-0701

SHEET NO.
4 OF 10



LEGEND OF WETLAND AND WATERS IMPACTS

LIMITS OF DISTURBANCE — LOD —

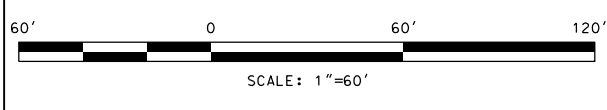
100-YR FLOODPLAIN ————

WATERS OF THE US — WUS —

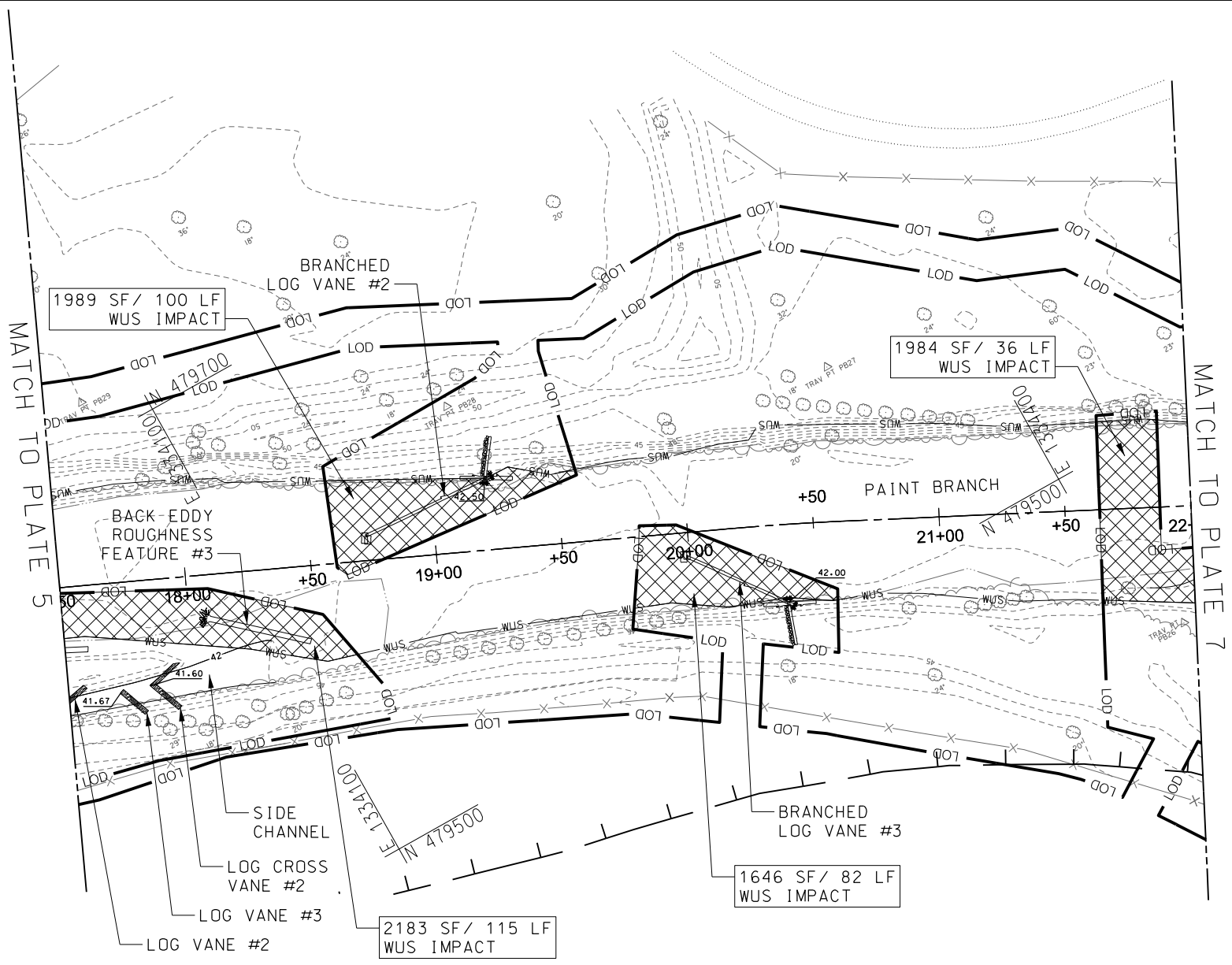
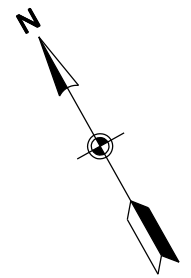
IMPACTS:

100-YR FLOODPLAIN 32486 SF / 0.75 AC

WATERS OF THE US 5903 SF / 290 LF



LAYER CHECK DRAWING DESIGN KLL LLW ETK ETK	PURPLE LINE PAINT BRANCH STREAM RESTORATION	CONTRACT NO. T-1042-XX40
	IMPACT PLATE	DRAWING NO. EF-0702
	DATE:	SHEET NO. 5 OF 10



MATCH TO PLATE 5

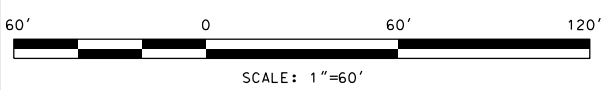
MATCH TO PLATE 7

LEGEND OF WETLAND AND WATERS IMPACTS

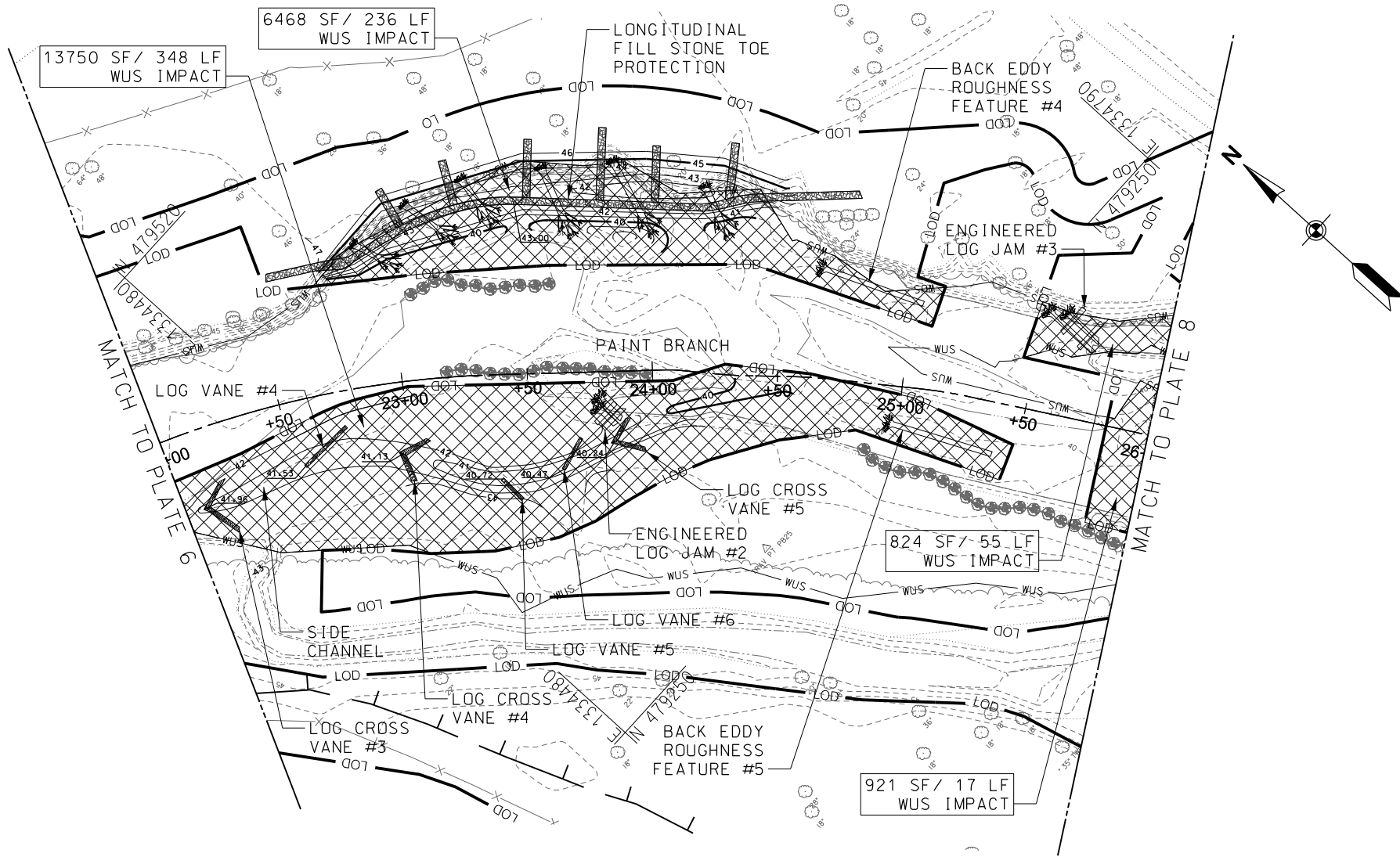
- LIMITS OF DISTURBANCE **— LOD —**
- 100-YR FLOODPLAIN **— T —**
- WATERS OF THE US **— WUS —**

IMPACTS:

- 100-YR FLOODPLAIN 34289 SF / 0.79 AC
- WATERS OF THE US 7802 SF / 333 LF



APPR CHECK DRAWING DESIGN	KLJ	PURPLE LINE PAINT BRANCH STREAM RESTORATION	CONTRACT NO. T-1042-XX40
	LLW		DRAWING NO. EF-0703
	ETK	ETK	IMPACT PLATE
DATE:		SCALE: 1"=60'	



LEGEND OF WETLAND AND WATERS IMPACTS

- LIMITS OF DISTURBANCE — LOD —
- 100-YR FLOODPLAIN ——— F ———
- WATERS OF THE US ——— WUS ———

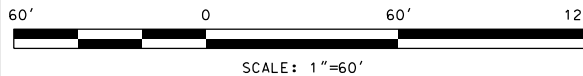
IMPACTS:

100-YR FLOODPLAIN 28426 SF / 0.65 AC

WATERS OF THE US 21963 SF / 656 LF



MARYLAND DEPARTMENT OF TRANSPORTATION



LAYER CHECK DRAWING DESIGN
 K LJ
 LLW
 ETK
 ETK

PURPLE LINE
PAINT BRANCH
STREAM RESTORATION

IMPACT PLATE

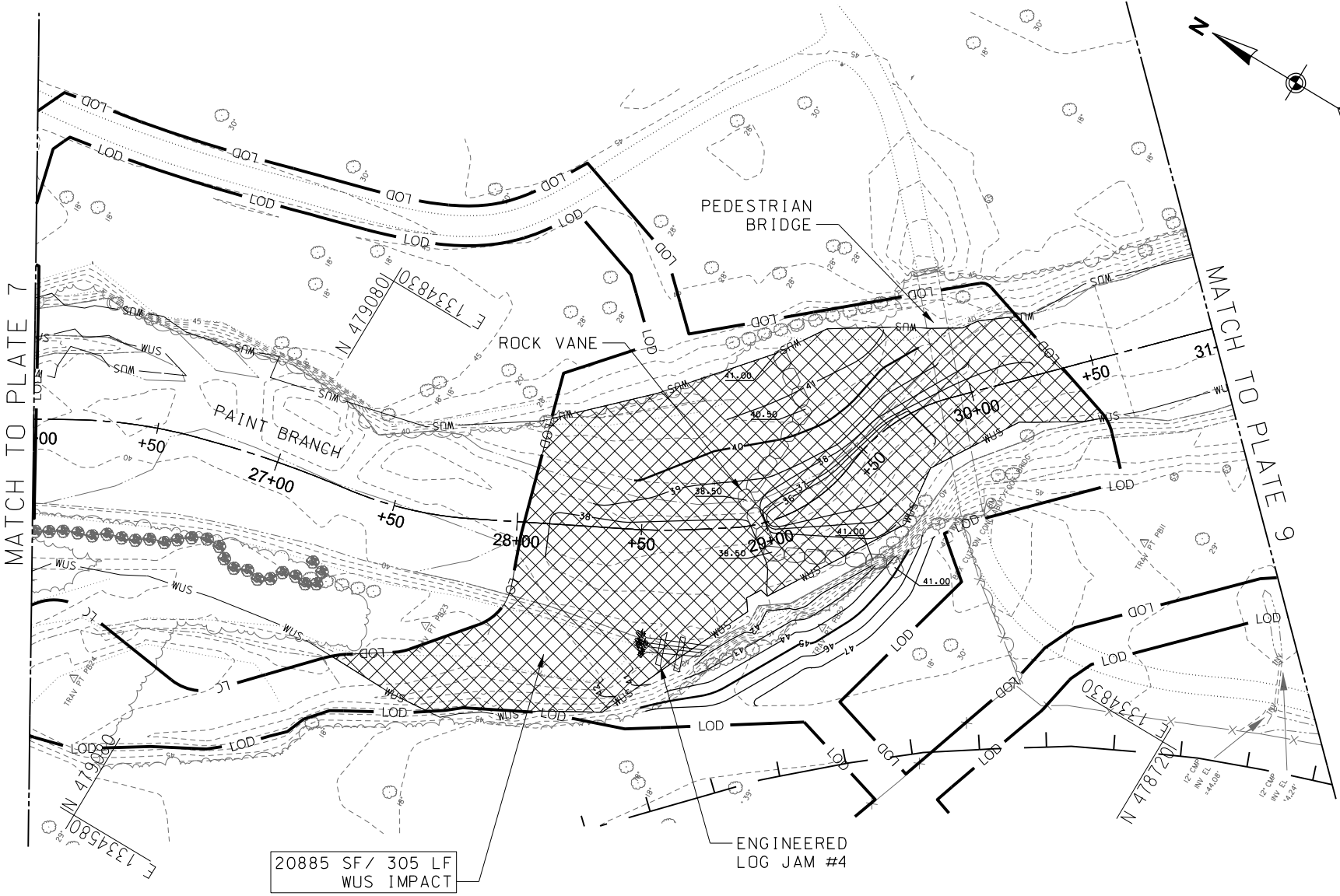
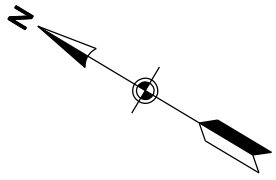
DATE:

SCALE: 1"=60'

CONTRACT NO.
T-1042-XX40

DRAWING NO.
EF-0704

SHEET NO.
7 OF 10



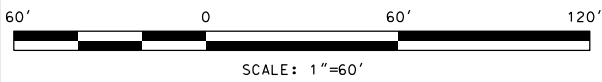
20885 SF / 305 LF
WUS IMPACT

LEGEND OF WETLAND AND WATERS IMPACTS

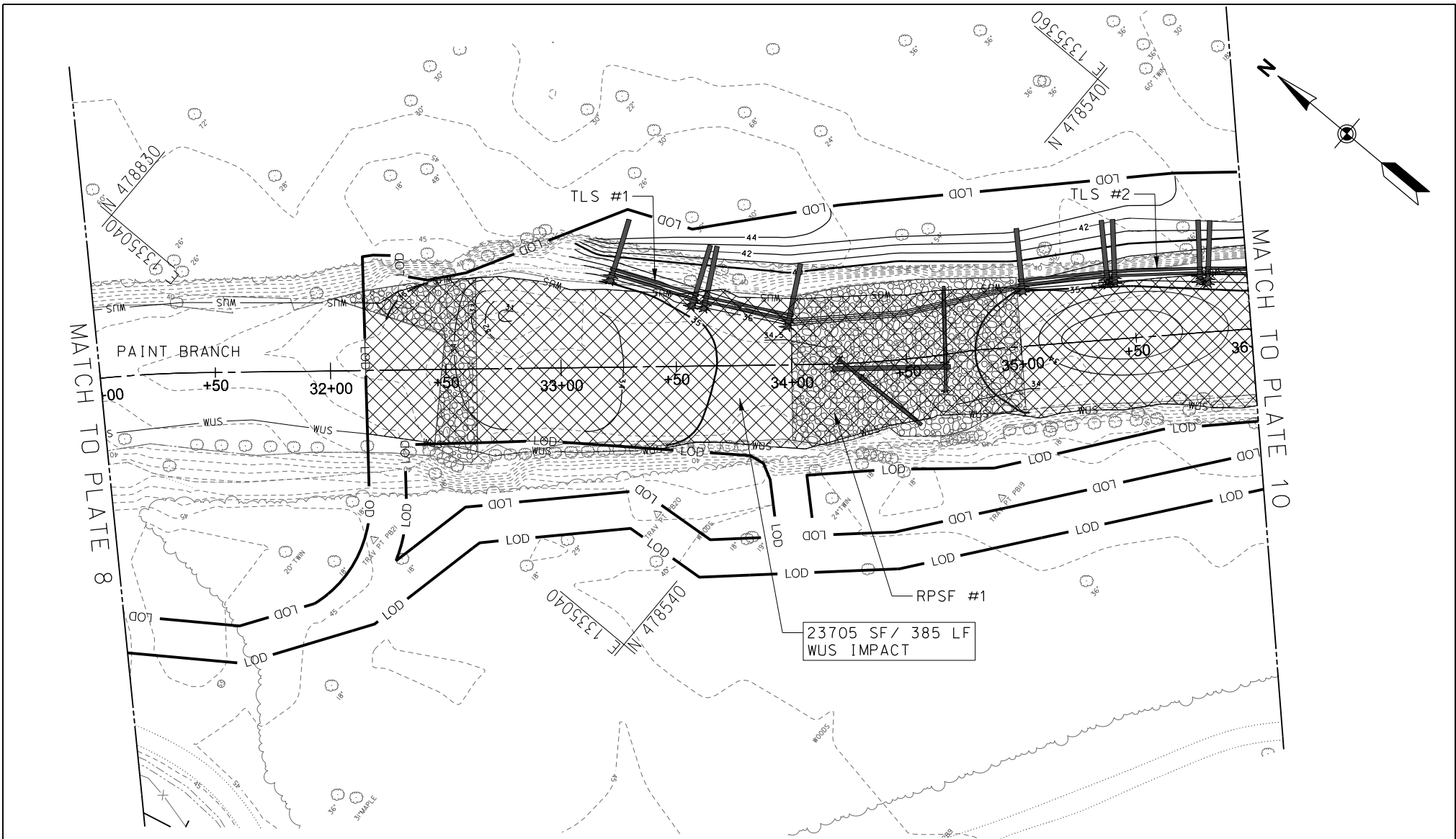
LIMITS OF DISTURBANCE	— LOD —
100-YR FLOODPLAIN	— F —
WATERS OF THE US	— WUS —

IMPACTS:

100-YR FLOODPLAIN	23053 SF / 0.53 AC
WATERS OF THE US	20885 SF / 305 LF



APPR CHECK DRAWING DESIGN ETK ETK	PURPLE LINE PAINT BRANCH STREAM RESTORATION	CONTRACT NO. T-1042-XX40
	IMPACT PLATE	DRAWING NO. EF-0705
	DATE:	SHEET NO. 8 OF 10



LEGEND OF WETLAND AND WATERS IMPACTS

- LIMITS OF DISTURBANCE — LOD —
- 100-YR FLOODPLAIN ——— F ———
- WATERS OF THE US ——— WUS ———

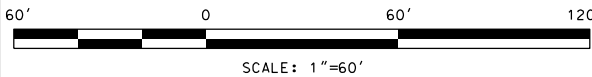
IMPACTS:

100-YR FLOODPLAIN 25628 SF / 0.59 AC

WATERS OF THE US 23705 SF / 385 LF



MARYLAND DEPARTMENT OF TRANSPORTATION



KLJ
LLW
ETK
ETK

PURPLE LINE
PAINT BRANCH
STREAM RESTORATION

IMPACT PLATE

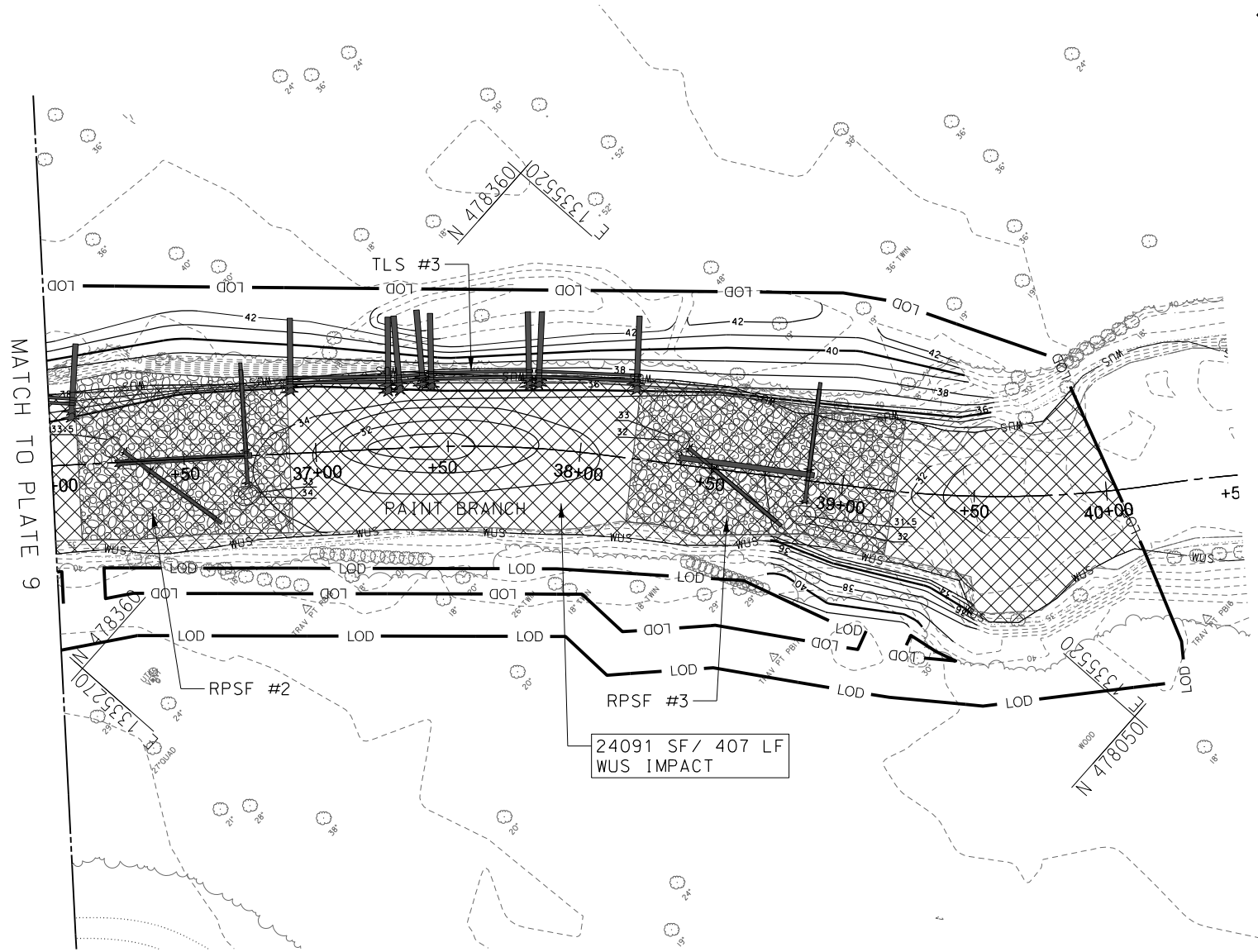
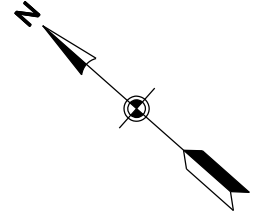
DATE:

SCALE: 1"=60'

CONTRACT NO.
T-1042-XX40

DRAWING NO.
EF-0706

SHEET NO.
9 OF 10

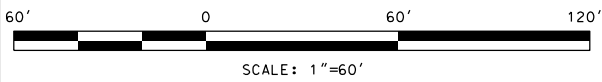


MATCH TO PLATE 9

LEGEND OF WETLAND AND WATERS IMPACTS

- LIMITS OF DISTURBANCE LOD
- 100-YR FLOODPLAIN
- WATERS OF THE US WUS

- IMPACTS:**
- 100-YR FLOODPLAIN 28150 SF / 0.65 AC
 - WATERS OF THE US 24091 SF / 407 LF



APPR CHECK DRAWING DESIGN	KLJ	PURPLE LINE PAINT BRANCH STREAM RESTORATION	CONTRACT NO. T-1042-XX40
	LLW		DRAWING NO. EF-0707
	ETK	ETK	IMPACT PLATE
DATE:		SCALE: 1"=60'	