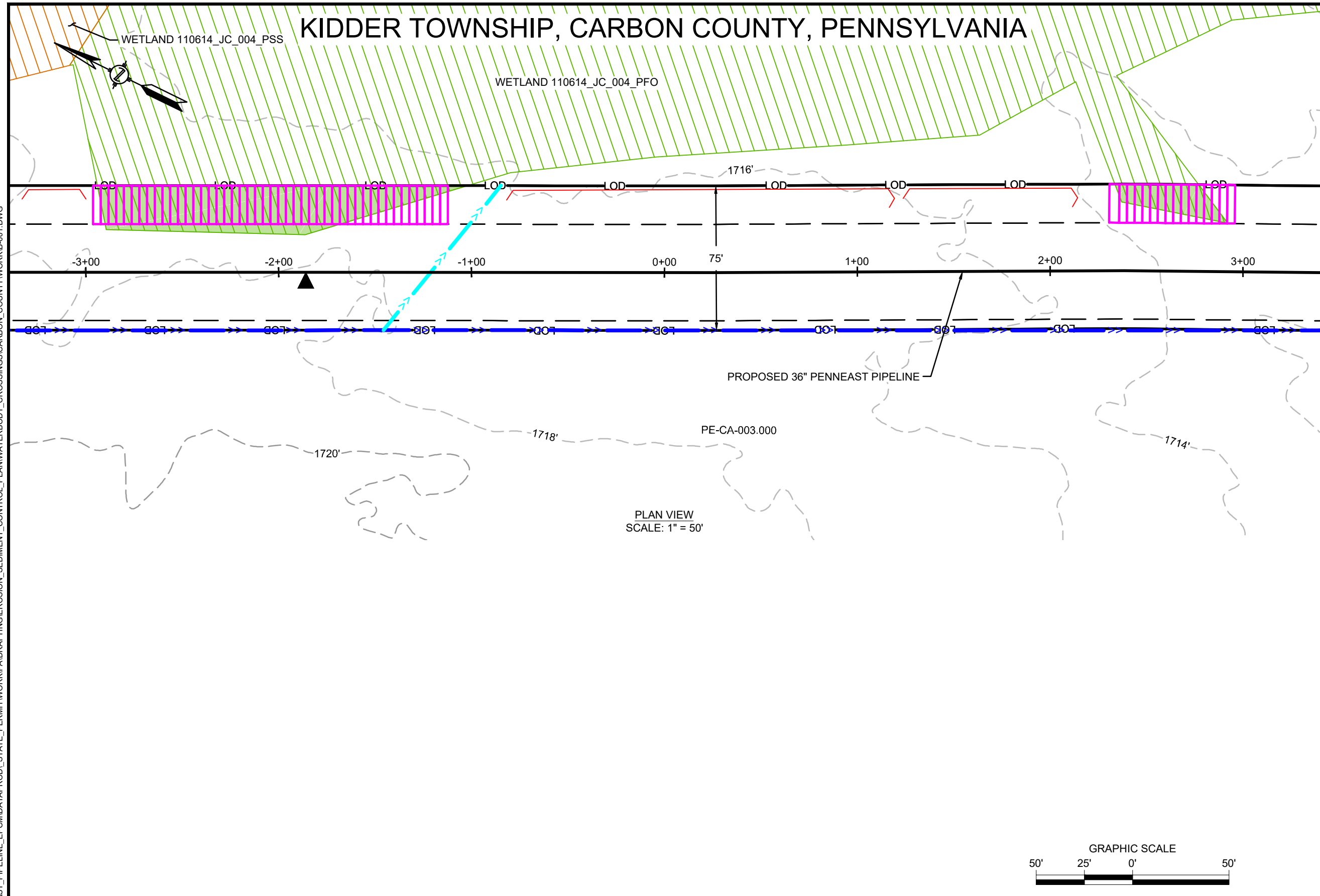
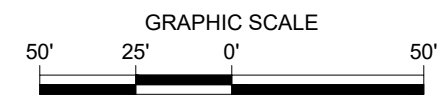


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KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
110614_JC_004_PFO - 1	WETLAND	0.07	-	-	0.01	-	-	N/A - WORKSPACE	-	-	MATTED
110614_JC_004_PFO - 2	WETLAND	0.02	-	-	-	-	-	N/A - WORKSPACE	-	-	MATTED

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

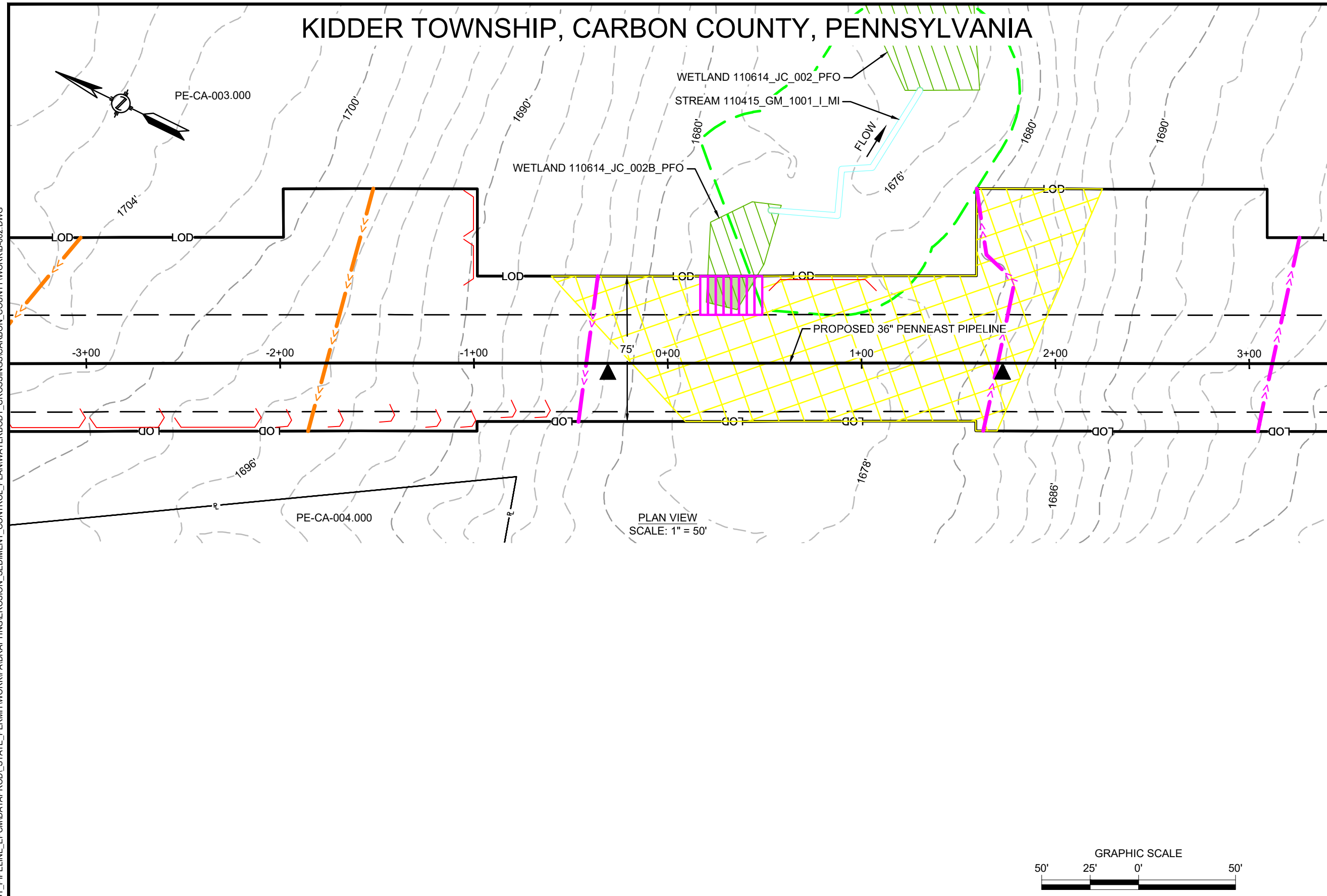
PREPARED BY:

SCALE: 1"=50'

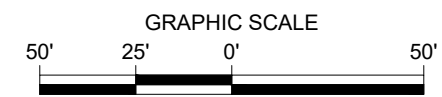
PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
M.P. 24.2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-001	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
110415_GM_1001_I_MI	WATERBODY	-	-	0.03	-	-	0.00	N/A	N/A	N/A	N/A - WORKSPACE
110614_JC_002B_PFO	WETLAND	0.01	-	-	-	-	-	N/A - WORKSPACE	-	-	MATTED



11/15/2018 6:38 PM, BARBOSA, ELIEZER G:\PENNEAST\353754_PENNEAST_PIPELINE_EPC\MIDATA\PROD\STATE_PERMIT\WORK\PAIDRAFTING\EROSION_SEDIMENT_CONTROL_PLAN\WATERBODY_CROSSINGS\CARBON_COUNTY\WORK\B-002.DWG

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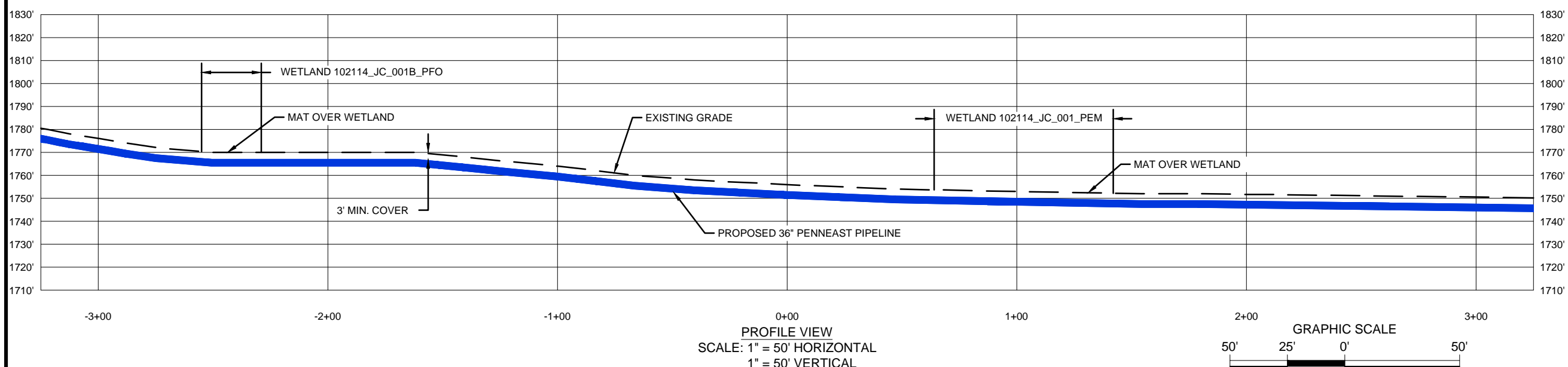
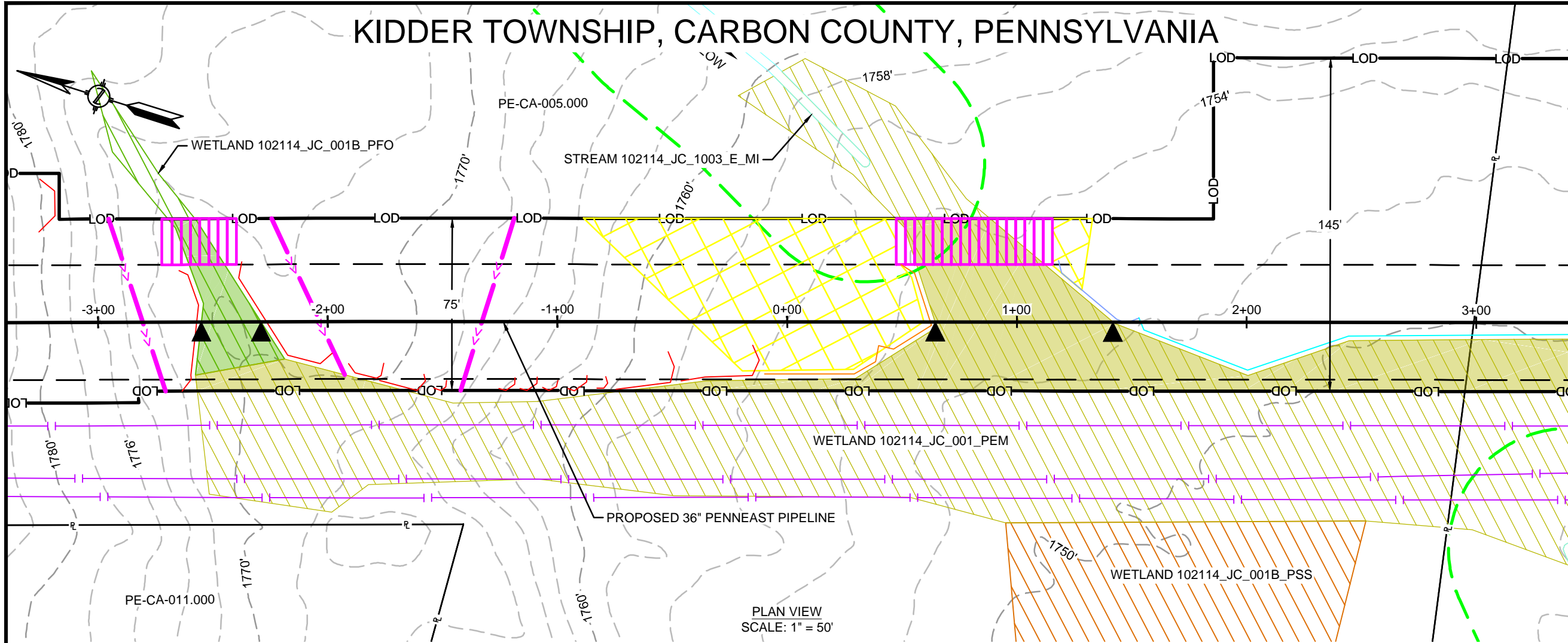
APPROVALS	
DRAWN BY	DATE
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CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 24.5		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-002	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	WETLAND	PRIMARY	SECONDARY	TERTIARY	
102114_JC_1003_E_MI	WATERBODY	-	0.04	-	-	N/A	N/A	N/A	N/A - WORKSPACE
102114_JC_001B_PFO	WETLAND	-	-	-	0.03	CL - OPEN CUT	-	-	MATTED
102114_JC_001_PEM - 1	WETLAND	-	-	-	0.01	N/A - WORKSPACE	-	-	MATTED
102114_JC_001_PEM - 2	WETLAND	-	-	-	0.21	CL - OPEN CUT	-	-	MATTED

12/7/2018 2:47 PM, MORALES, HECTOR
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

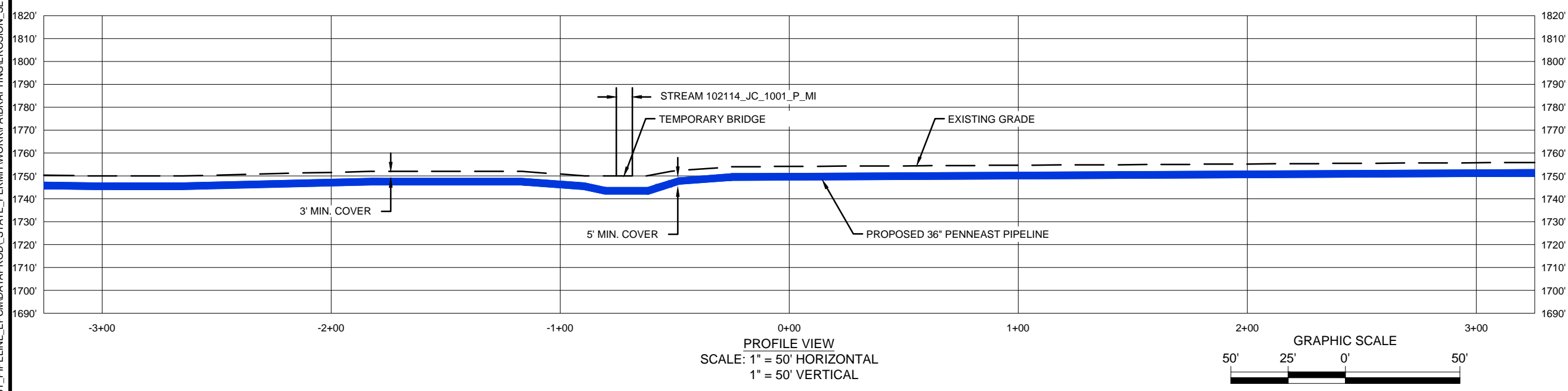
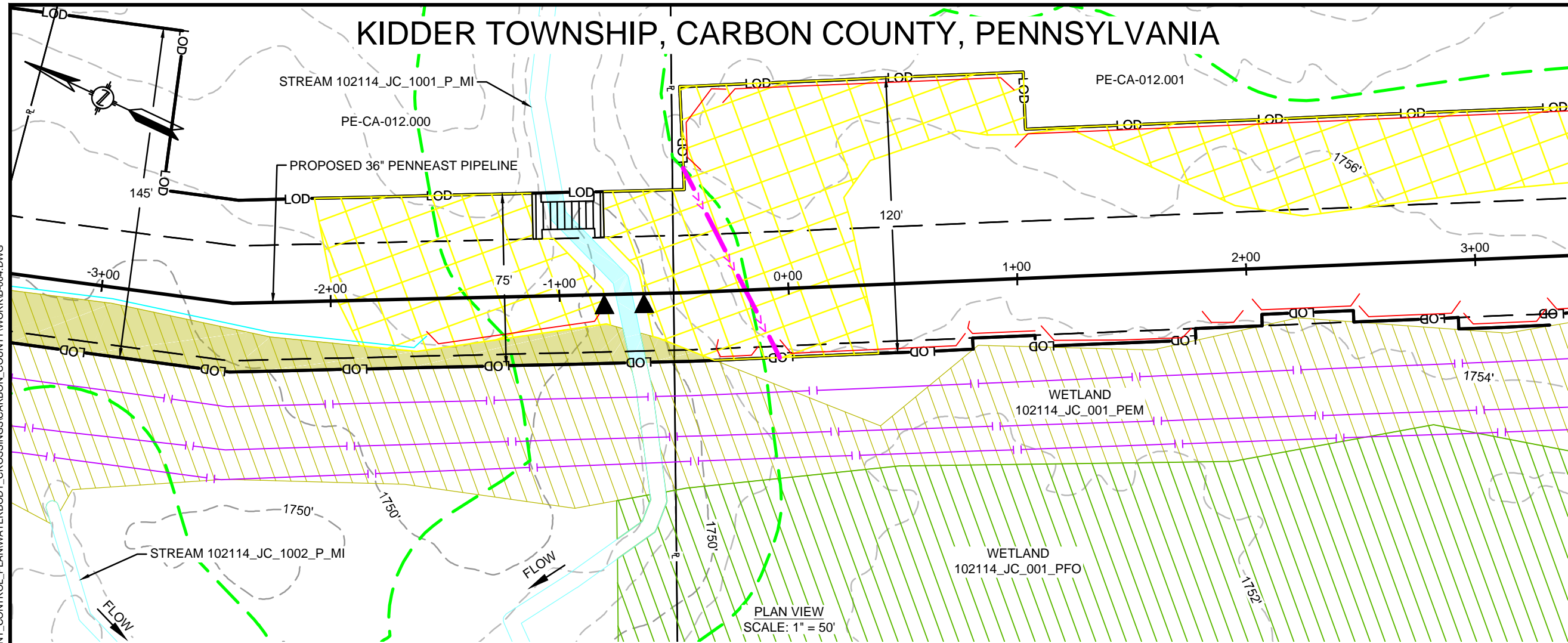
PREPARED BY:

PENNEAST PIPELINE PROJECT

WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
M.P. 26.4

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-003	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)			TEMPORARY DISTURBANCE (ACRES)			RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY		
MAT BRIDGE OR EQUIVALENT	DPX	FX	CD	-	0.01	0.13	-	0.00	0.07	0.07	102114_JC_1001_P_MI
											102114_JC_001_PEM - 2

REFER TO DWG WSS-CA-ML-003 FOR IMPACT ACRES

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REVISIONS					
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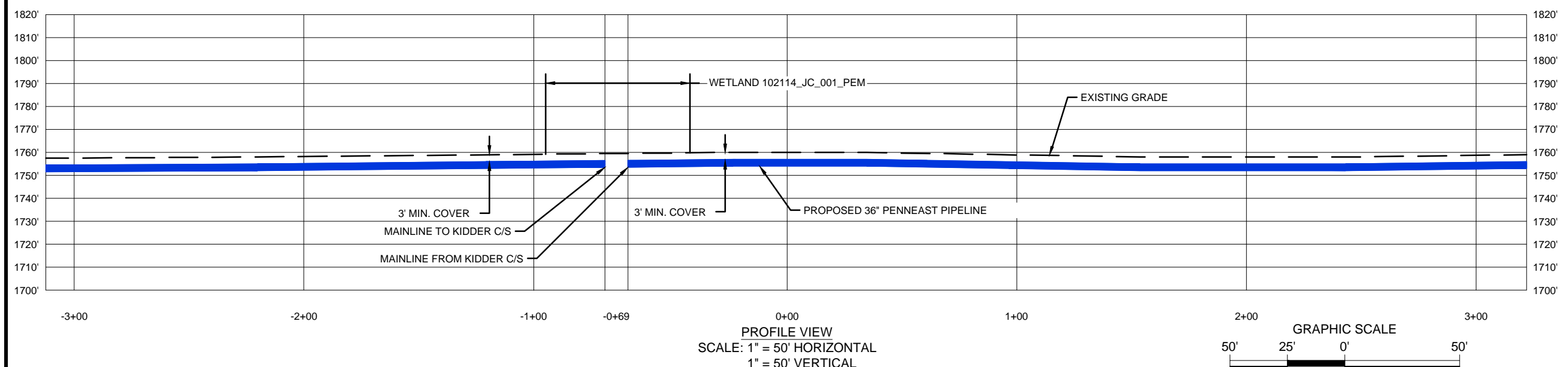
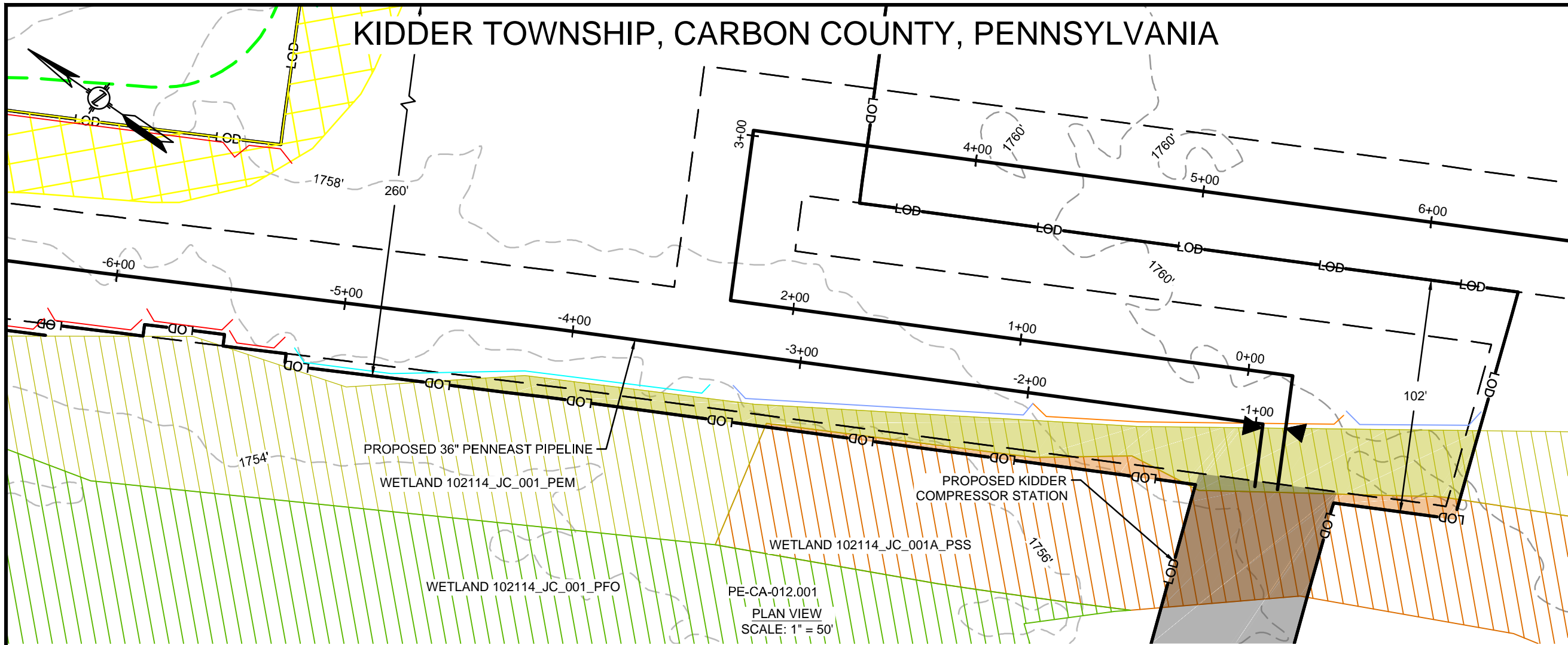
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DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 26.5		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-004	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	
102114_JC_001A_PSS - 1	WETLAND	0.01	-	0.00	-	CL - OPEN CUT	-	-	MATTED
102114_JC_001A_PSS - 2	WETLAND	-	-	0.07	-	CL - OPEN CUT	-	-	MATTED
102114_JC_001A_PSS - 3	WETLAND	0.01	-	0.00	-	CL - OPEN CUT	-	-	MATTED
102114_JC_001_PEM - 3	WETLAND	-	-	0.13	-	N/A - WORKSPACE	-	-	MATTED
102114_JC_001_PEM - 4	WETLAND	-	-	0.01	-	CL - OPEN CUT	-	-	MATTED

11/15/2018 10:28 PM, MORALES, HECTOR
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REVISIONS			
NO.	DATE	DESCRIPTION	
0	10/2018	ISSUED FOR PADEP 105 PERMIT	

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

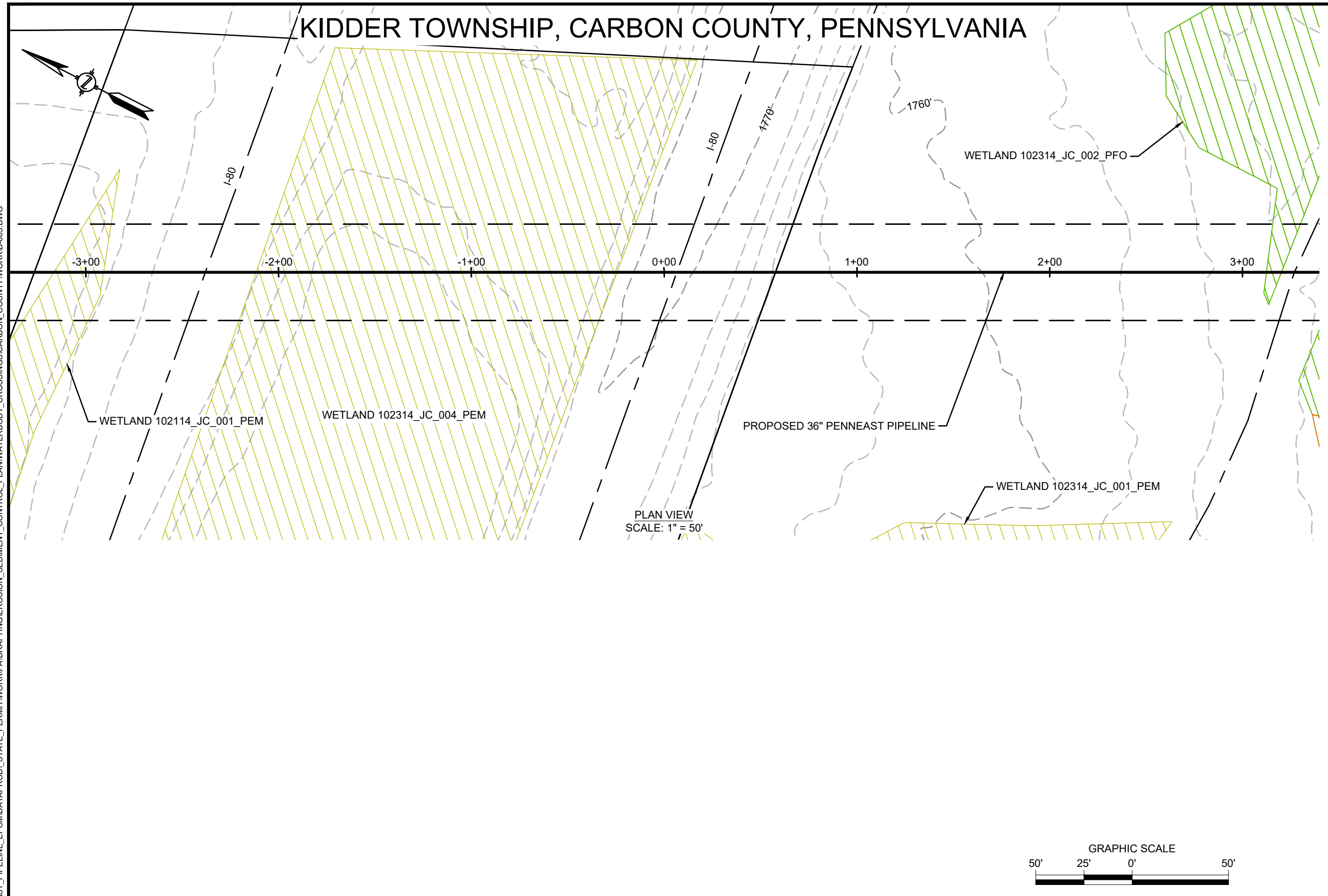
PENNEAST PIPELINE PROJECT

WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
M.P. 26.7

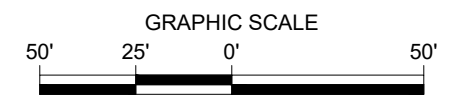
SCALE	DRAWING NO.	REVISION
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KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
102314_JC_004_PEM	WETLAND	-	-	-	0.01	-	-	CL - HDD	-	-	N/A
102314_JC_002_PFO - 1	WETLAND	-	-	-	0.00	-	-	CL - HDD	-	-	N/A

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

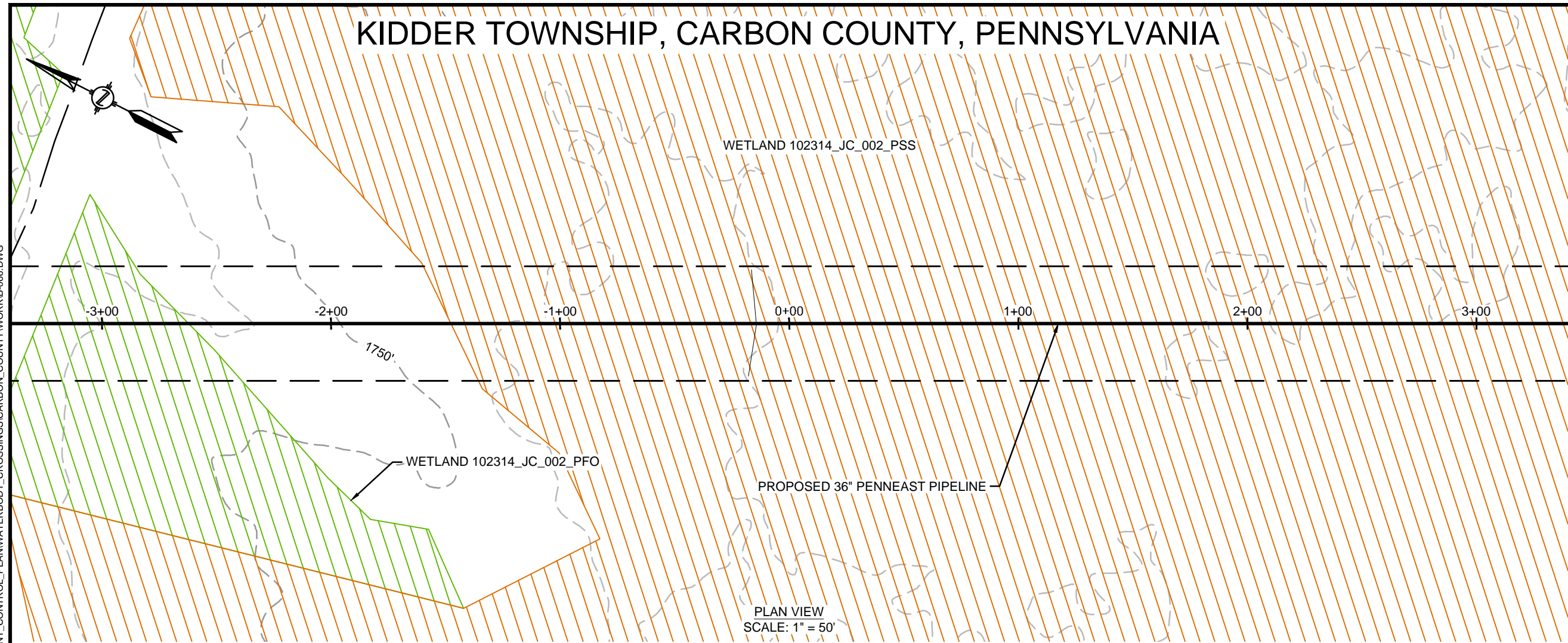
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PREPARED BY:

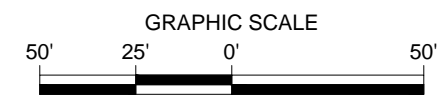
PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 27.1R2		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-006	0

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KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
 SCALE: 1" = 50'



REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

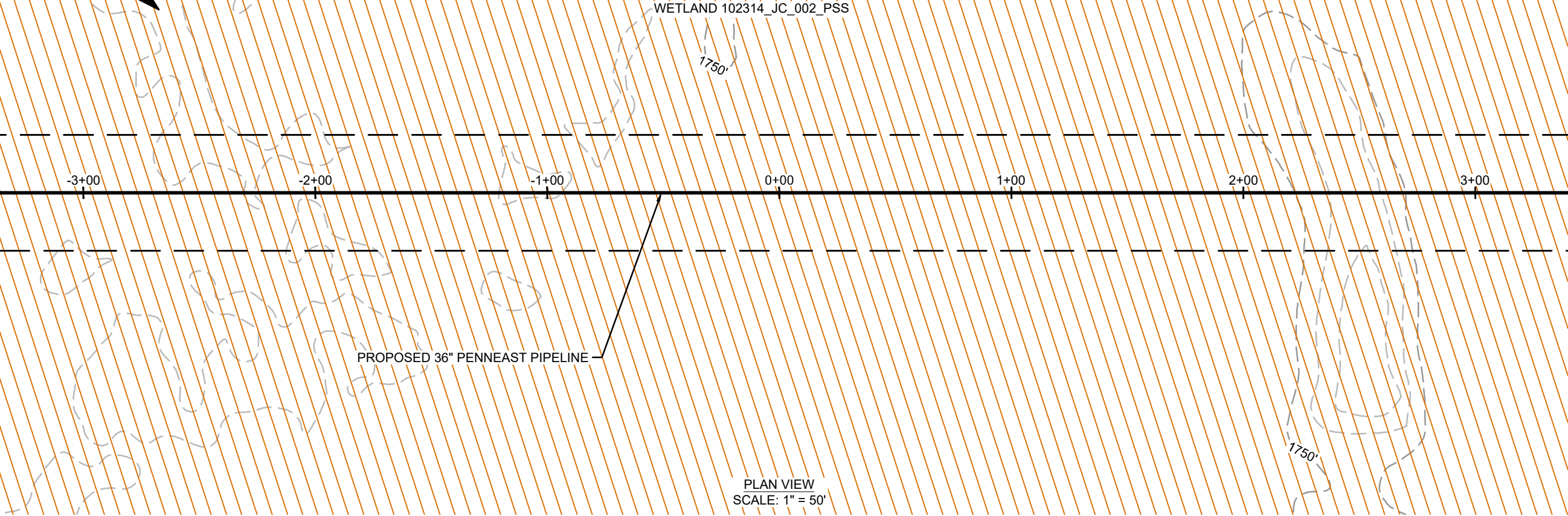
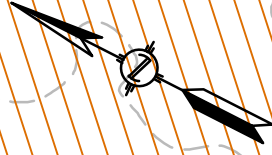
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 27.1R2		
SCALE	DRAWING NO.	REVISION
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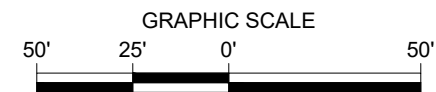
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		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
102314_JC_002_PFO - 2	WETLAND	-	-	-	-	0.00	-	-	CL - HDD	-	-	N/A
102314_JC_002_PSS												

REFER TO DWG WSS-CA-ML-008 FOR IMPACT ACRES

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



FEATURE ID	102314_JC_002_PSS		RESOURCE TYPE	WETLAND	
	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)	
WETLAND		-	WETLAND		0.10
WATERCOURSE CHANNEL		-	WATERCOURSE CHANNEL		-
WATERCOURSE FLOODWAY		-	WATERCOURSE FLOODWAY		-
CROSSING METHOD		PRIMARY			
TERTIARY		-			
SECONDARY		-			
EQUIPMENT CROSSING		CL - HDD			
N/A		-			

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REVISIONS					
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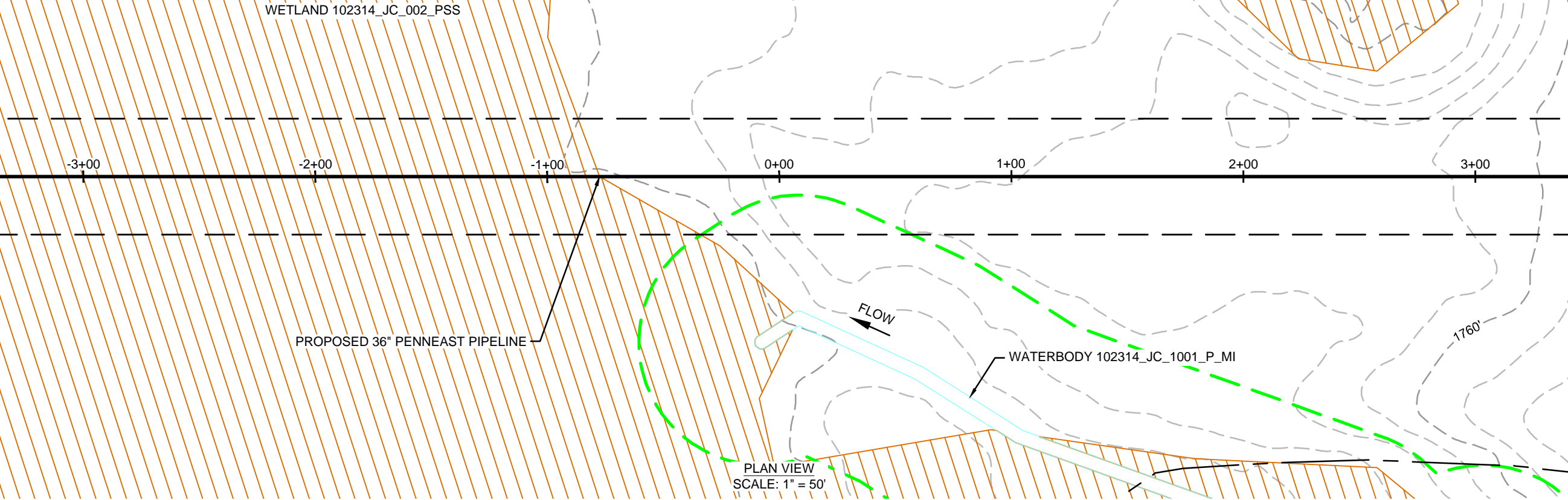
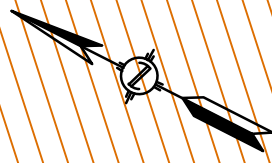
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CHECKED BY	DATE
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ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

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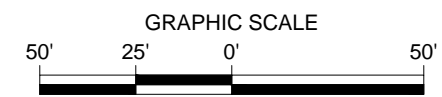
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 27.1R2		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-008	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



FEATURE ID	102314_JC_002_PSS	
	RESOURCE TYPE	
TEMPORARY DISTURBANCE (ACRES)	WETLAND	
	WATERCOURSE CHANNEL	
	WATERCOURSE FLOODWAY	
	WATERCOURSE FLOODWAY	
PERMANENT DISTURBANCE (ACRES)	WETLAND	
	WATERCOURSE CHANNEL	
	WATERCOURSE FLOODWAY	
CROSSING METHOD	PRIMARY	
	SECONDARY	
	TERTIARY	
EQUIPMENT CROSSING		

REFER TO DWG WSS-CA-ML-008 FOR IMPACT ACRES

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REVISIONS					
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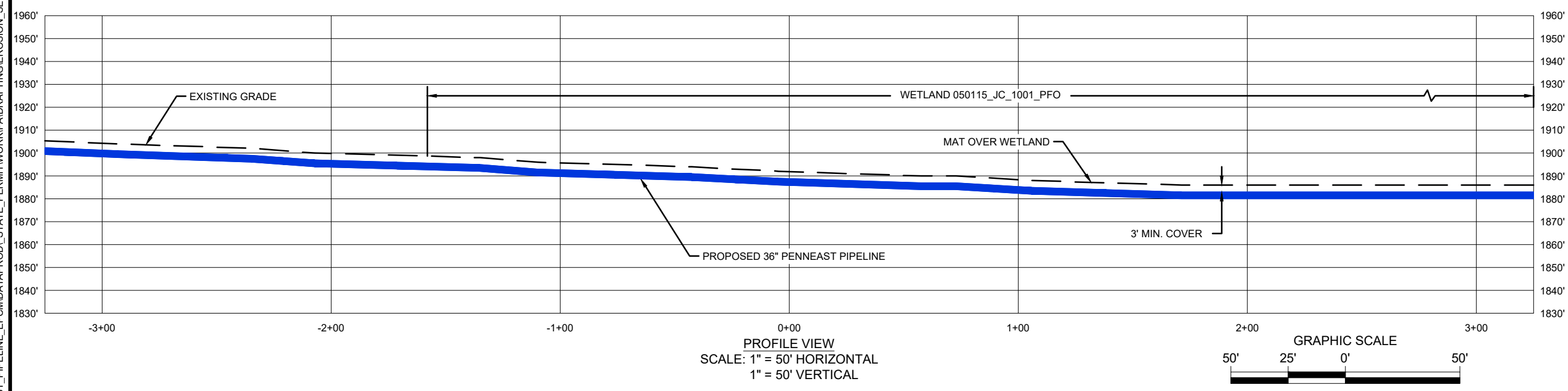
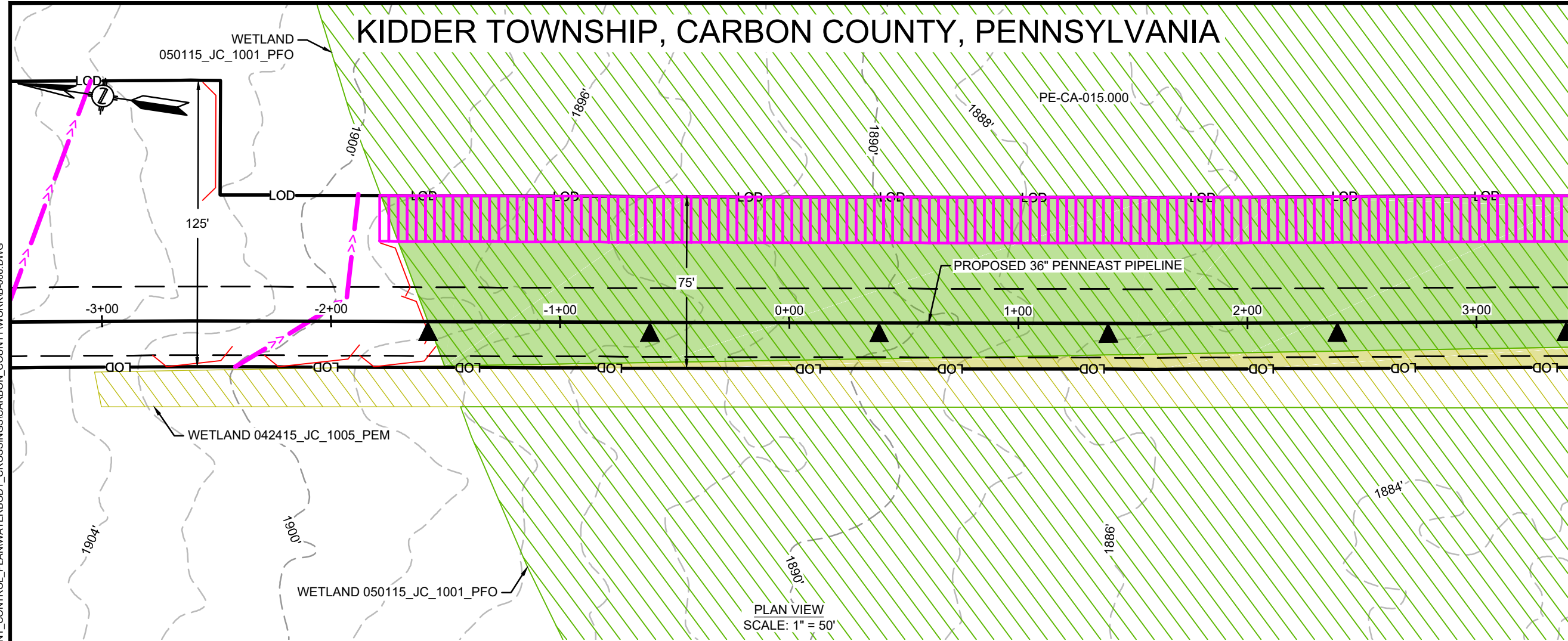
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HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 27.1R2		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-009	0

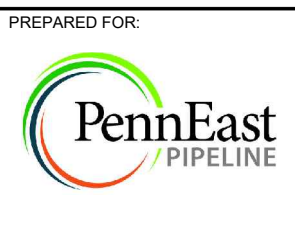
KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)			TEMPORARY DISTURBANCE (ACRES)			RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE FLOODWAY	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE FLOODWAY		
	CL - OPEN CUT	-	-	-	0.52	-	-	0.80	-	WETLAND	050115_JC_1001_PFO
	N/A	-	-	-	0.00	-	-	0.11	-	WETLAND	042415_JC_1005_PEM

REVISIONS						APPROVALS		
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL	DRAWN BY	DATE	
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						CHECKED BY	DATE	
						JB/KEK (MM)	10/2018	
						ENG. APPROVAL	DATE	
						MJD (MM)	10/2018	
						P.M. APPROVAL	DATE	

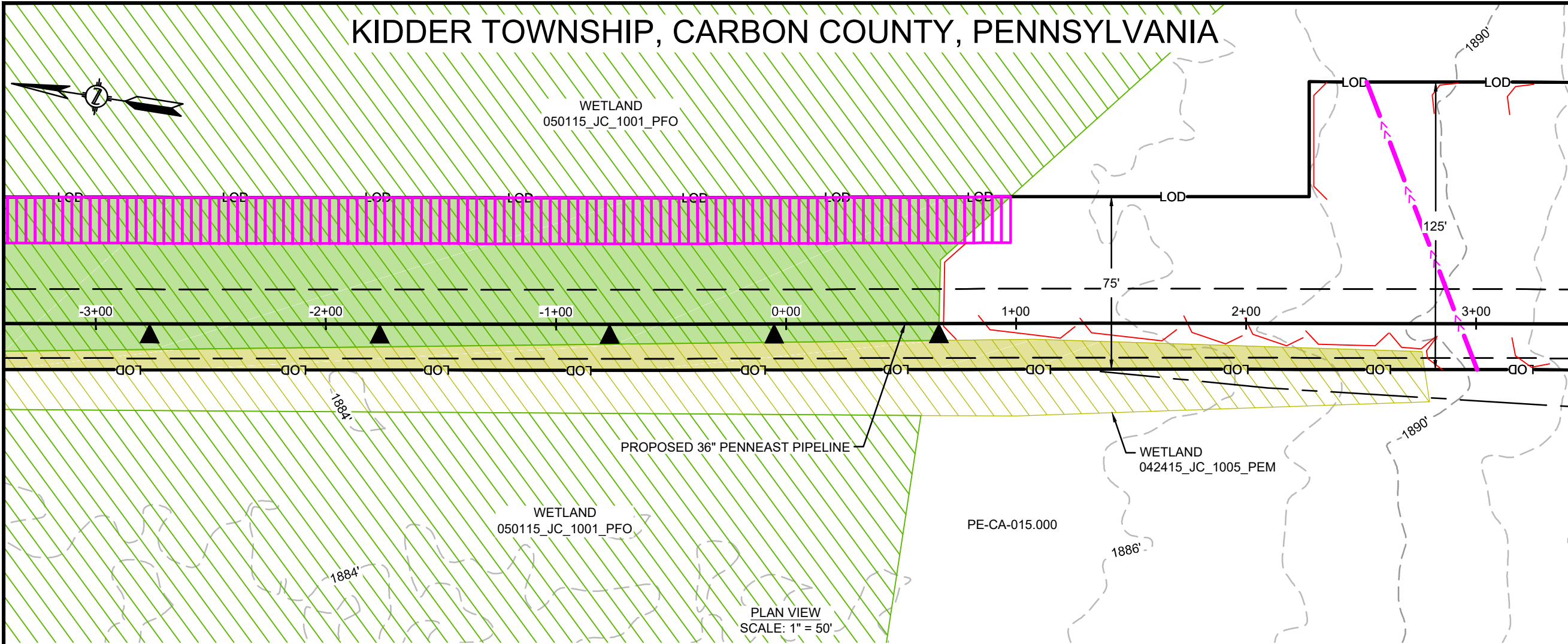
PREPARED FOR:	PREPARED BY:
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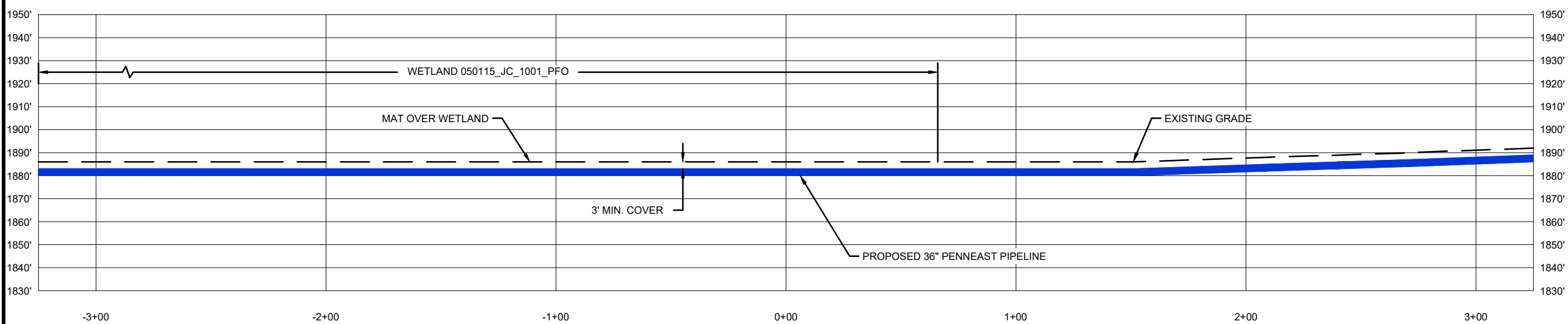
PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 29.6R2		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-010	0

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KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)	TEMPORARY DISTURBANCE (ACRES)	RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY				
				WATERCOURSE	WATERCOURSE	WETLAND	042415_JC_1005_PEM
				CHANNEL	CHANNEL		050115_JC_1001_PFO
				FLOODWAY	FLOODWAY		
REFER TO DWG WSS-CA-ML-010 FOR IMPACT ACRES							
REFER TO DWG WSS-CA-ML-010 FOR IMPACT ACRES							

11/15/2018 6:57 PM, BARBOSA, ELIEZER
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REVISIONS					
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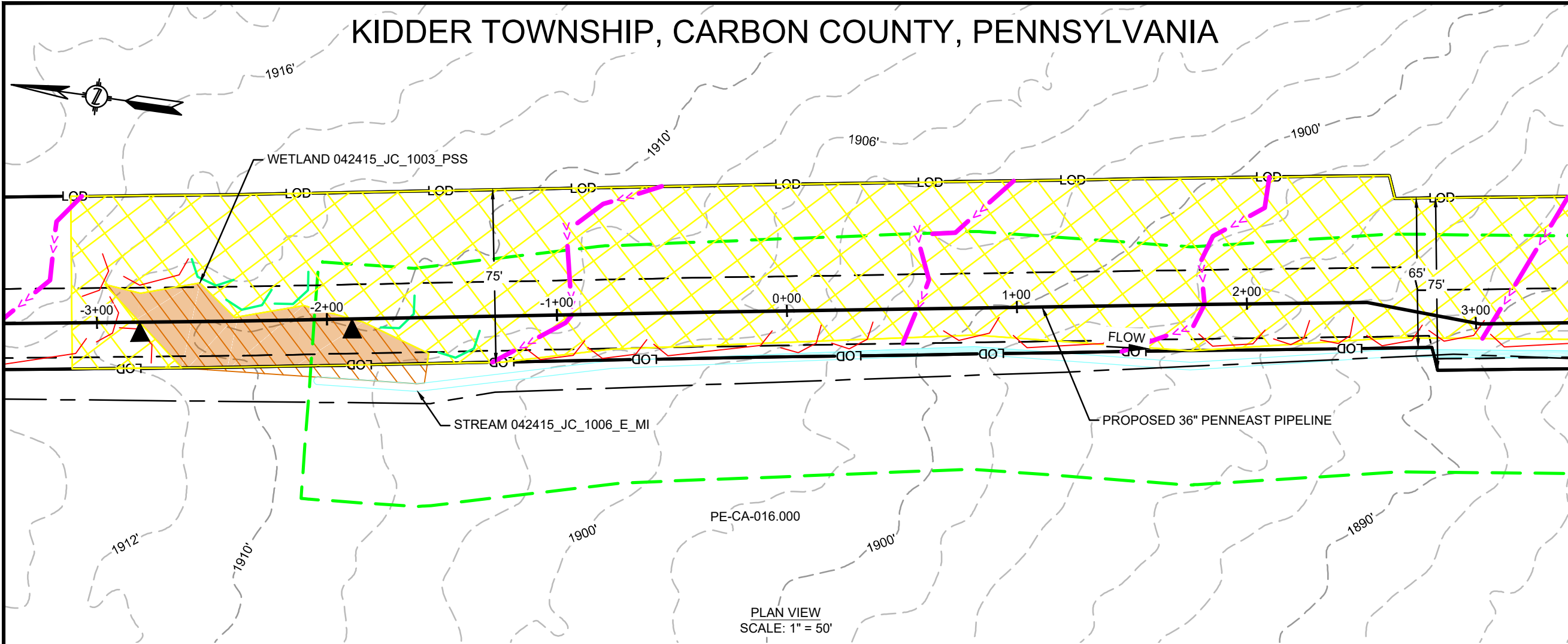
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DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

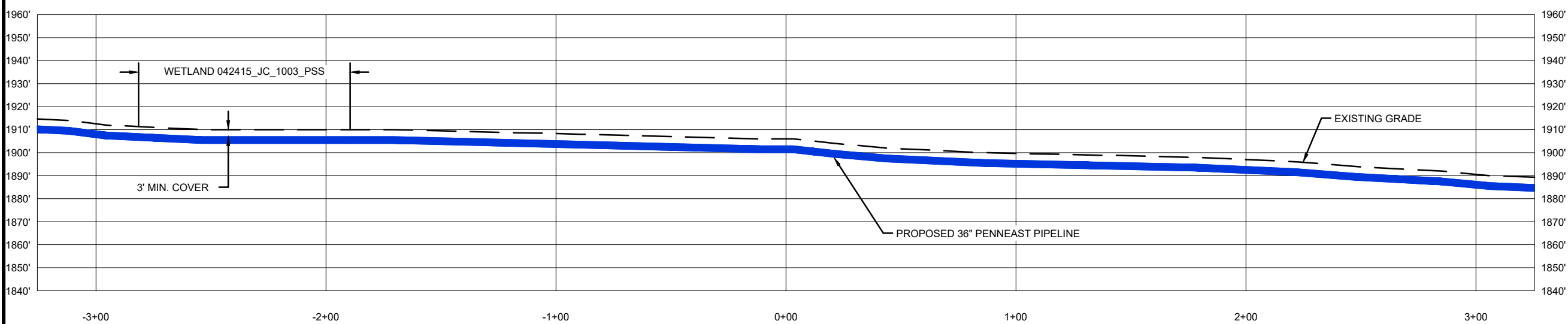
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 29.6R2		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-011	0

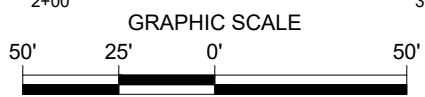
KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
042415_JC_1003_PSS	WETLAND	0.01	-	0.05	-	CL - OPEN CUT	-	-	MATTED
042415_JC_1006_E_MI - 1	WATERBODY	-	0.01	-	0.59	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT
042415_JC_1006_E_MI - 2	WATERBODY	-	0.01	-	-	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT

11/15/2018 7:00 PM, BARBOSA, ELIEZER
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REVISIONS				APPROVALS		
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL	
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD	

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

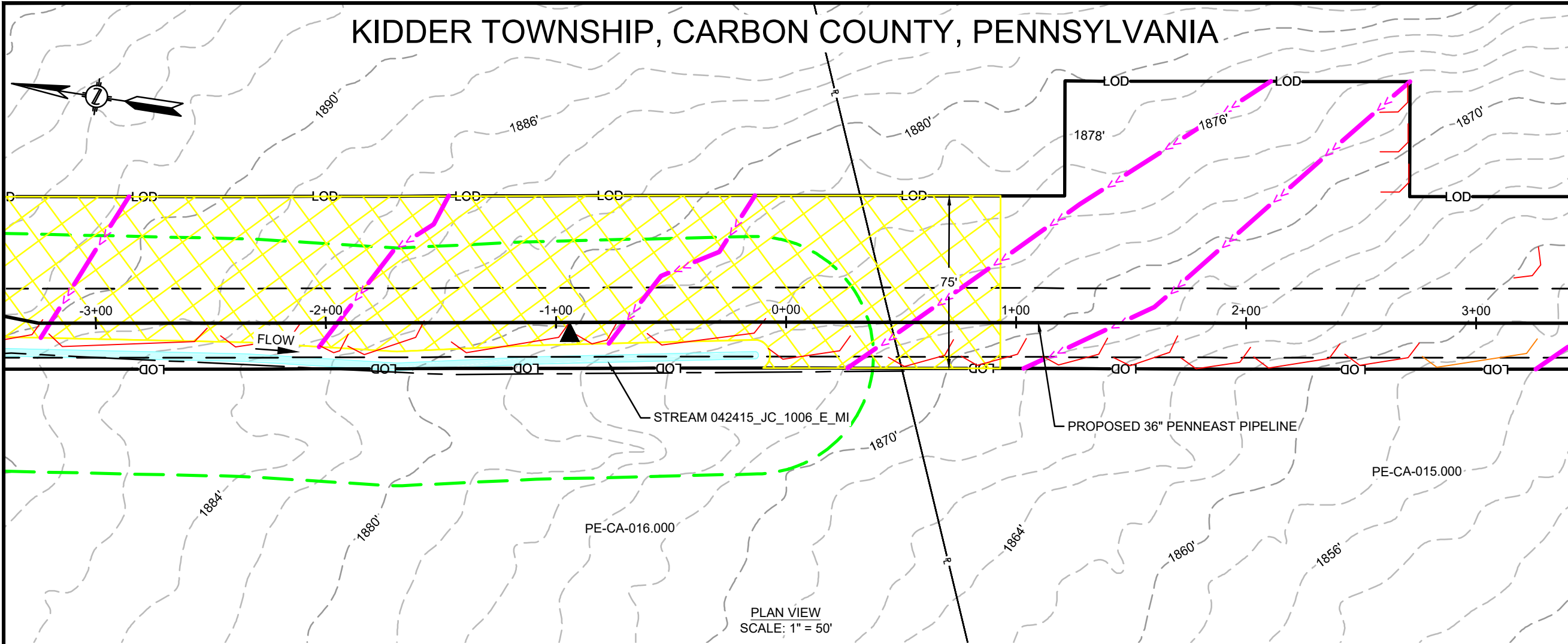
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PREPARED BY:

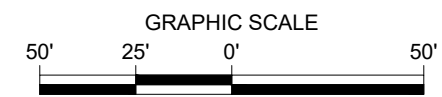
PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 30.4R2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-012	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



FEATURE ID	RESOURCE TYPE		TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		EQUIPMENT CROSSING	
	042415_JC_1006_E_MI - 2	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY		PRIMARY

REFER TO DWG WSS-CA-ML-012 FOR IMPACT ACRES

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REVISIONS					
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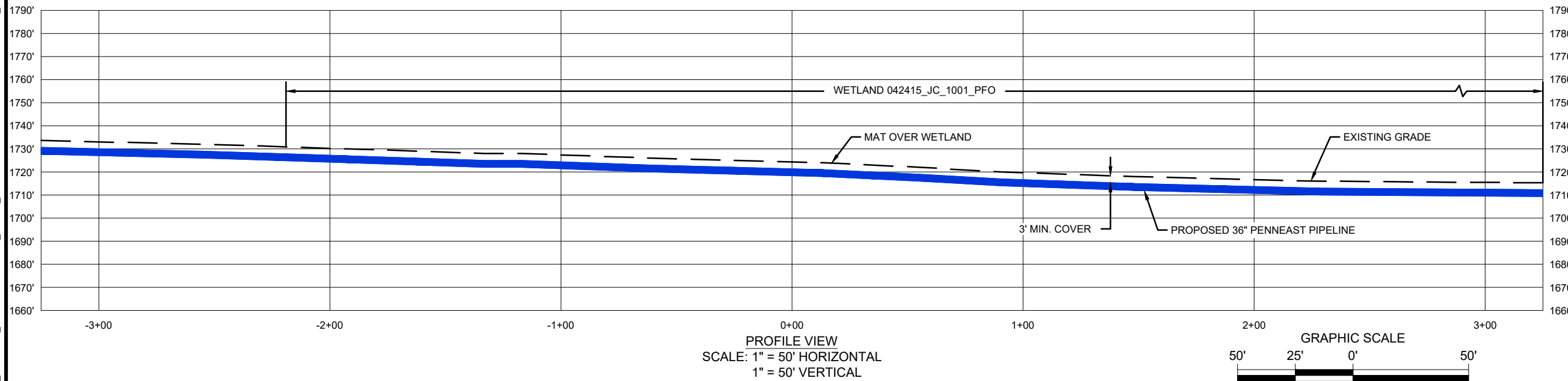
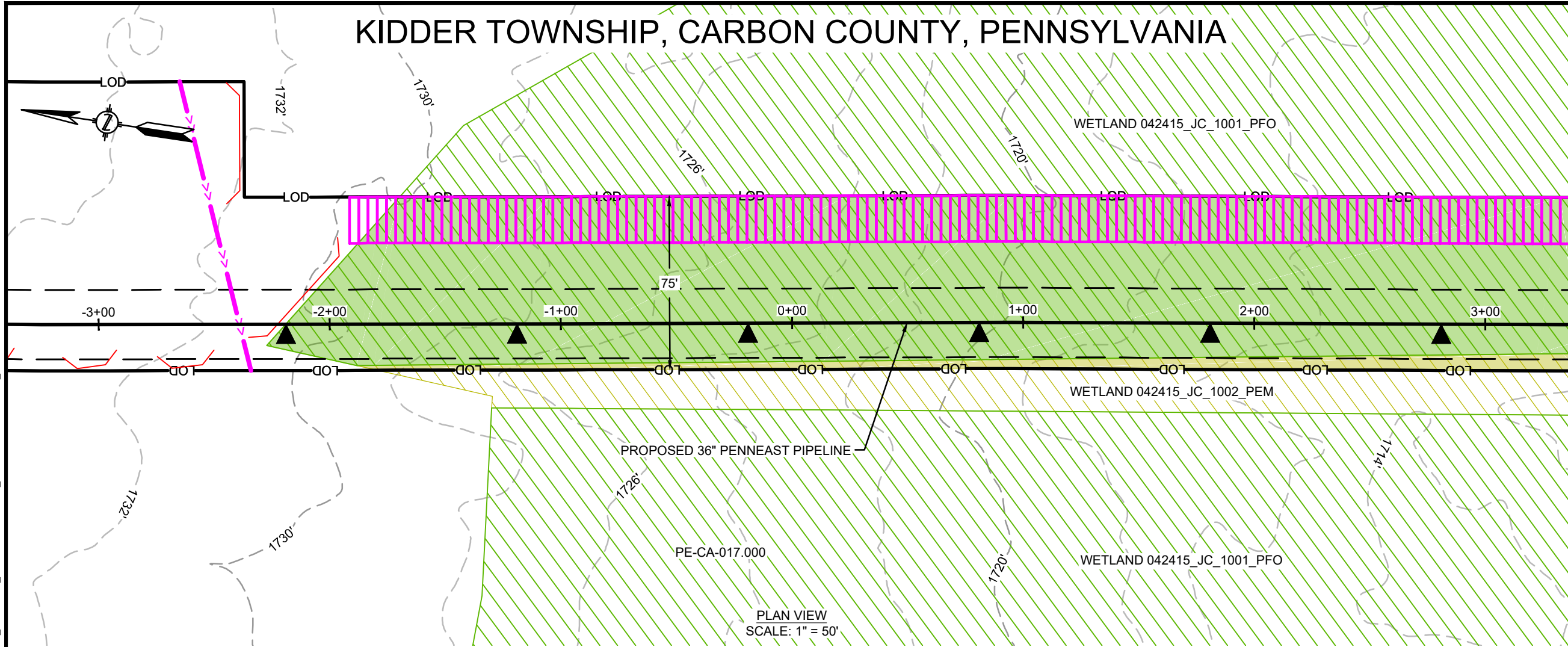
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 30.5R2		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-013	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)			TEMPORARY DISTURBANCE (ACRES)			RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY		
MATTED	CL - OPEN CUT	-	-	0.99	-	-	1.50	-	-	WETLAND	042415_JC_1001_PFO
MATTED	CL - OPEN CUT	-	-	0.15	-	-	0.15	-	-	WETLAND	042415_JC_1002_PEM

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

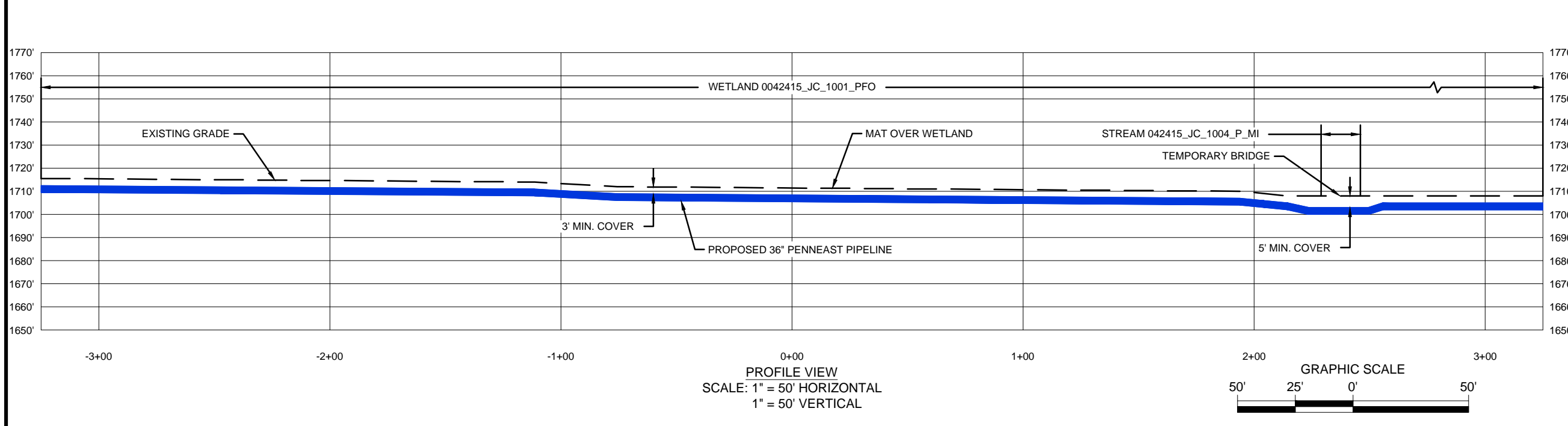
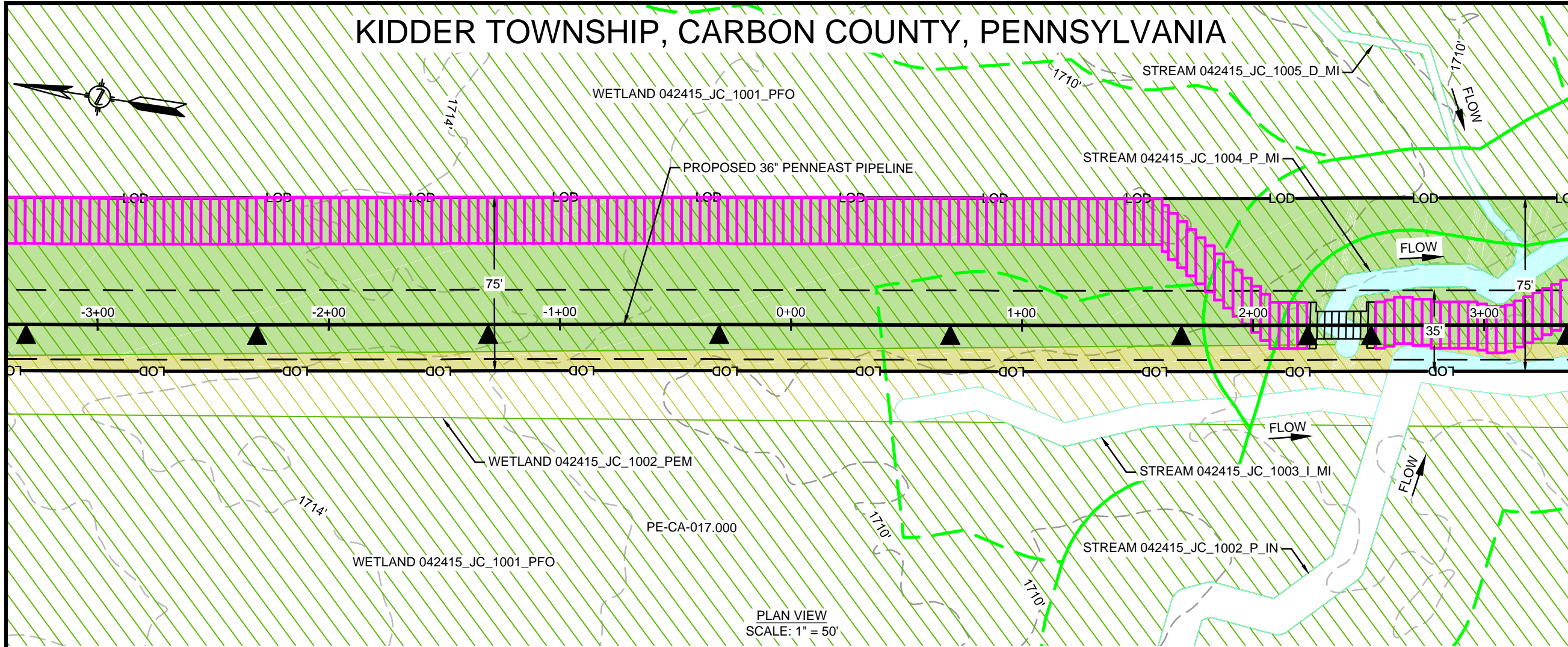
PREPARED BY:

SCALE: 1"=50'

PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 31.1R2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-014	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD	EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL		
042415_JC_1003_I_MI	WATERBODY	-	-	-	-	PRIMARY	N/A - WORKSPACE
042415_JC_1005_D_MI	WATERBODY	-	0.00	-	-	SECONDARY	MAT BRIDGE OR EQUIVALENT
042415_JC_1002_P_IN - 1	WATERBODY	-	0.01	0.01	0.01	PRIMARY	MAT BRIDGE OR EQUIVALENT
042415_JC_1004_P_MI	WATERBODY	-	0.04	-	0.01	PRIMARY	MAT BRIDGE OR EQUIVALENT
042415_JC_1001_PFO							
042415_JC_1002_PEM							

REFER TO DWG WSS-CA-ML-014 FOR IMPACT ACRES

REFER TO DWG WSS-CA-ML-014 FOR IMPACT ACRES

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

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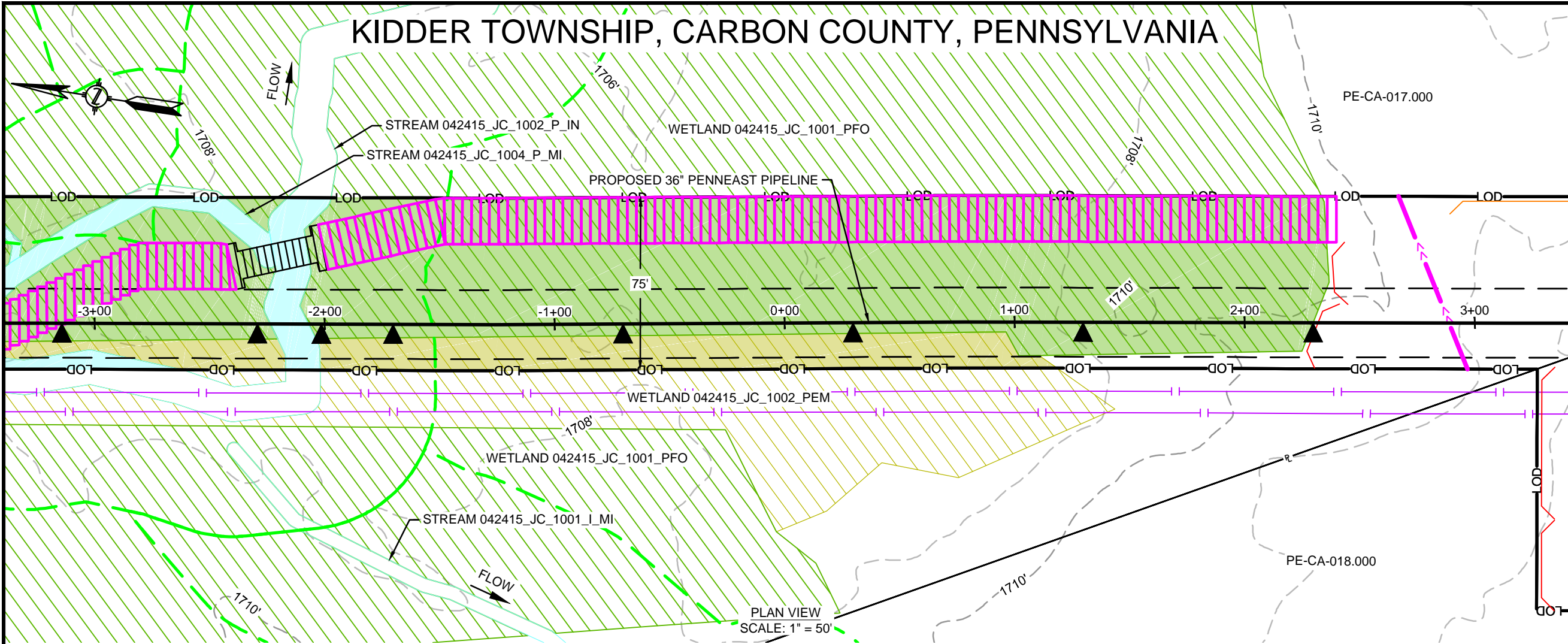
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PENNEAST PIPELINE PROJECT

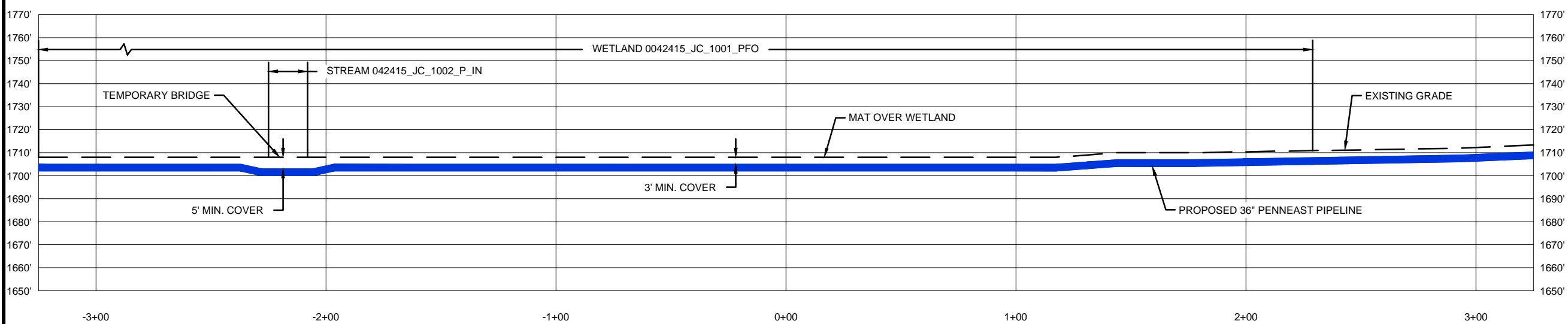
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
M.P. 31.1R2

SCALE	DRAWING NO.	REVISION
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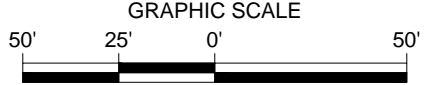
KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
042415_JC_1002_PEM	WATERBODY	-	0.02	-	0.01	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
042415_JC_1001_PFO									
042415_JC_1002_P_IN - 2									

REFER TO DWG WSS-CA-ML-014 FOR IMPACT ACRES

REFER TO DWG WSS-CA-ML-014 FOR IMPACT ACRES

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REVISIONS			
NO.	DATE	DESCRIPTION	
0	10/2018	ISSUED FOR PADEP 105 PERMIT	

APPROVALS		
DRAWN BY	CHECKED BY	APPROVAL
HM (MM)	JB/KEK	MJD
CHECKED BY	DATE	
JB/KEK (MM)	10/2018	
ENG. APPROVAL	DATE	
MJD (MM)	10/2018	
P.M. APPROVAL	DATE	

PREPARED FOR:

PREPARED BY:

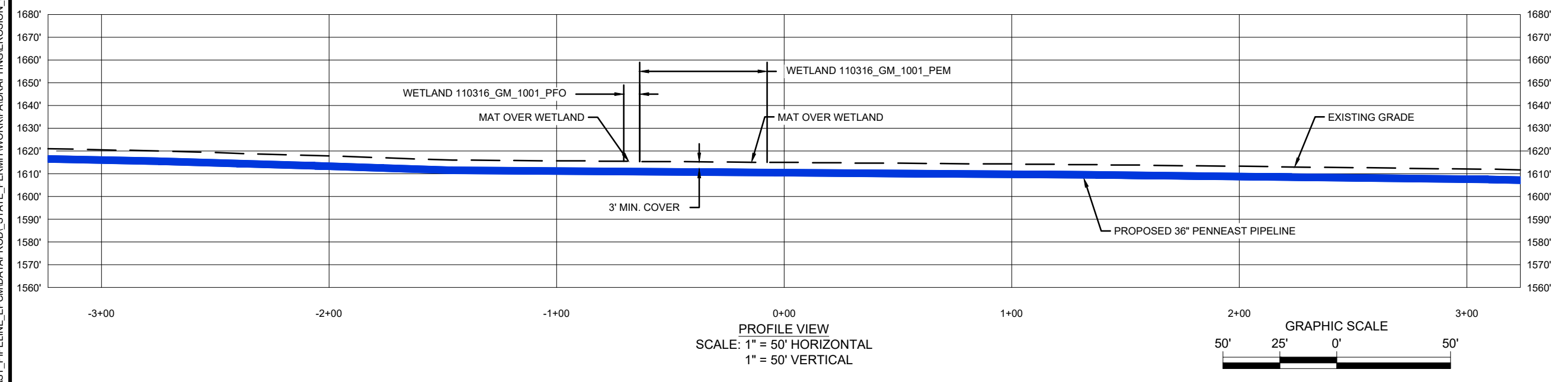
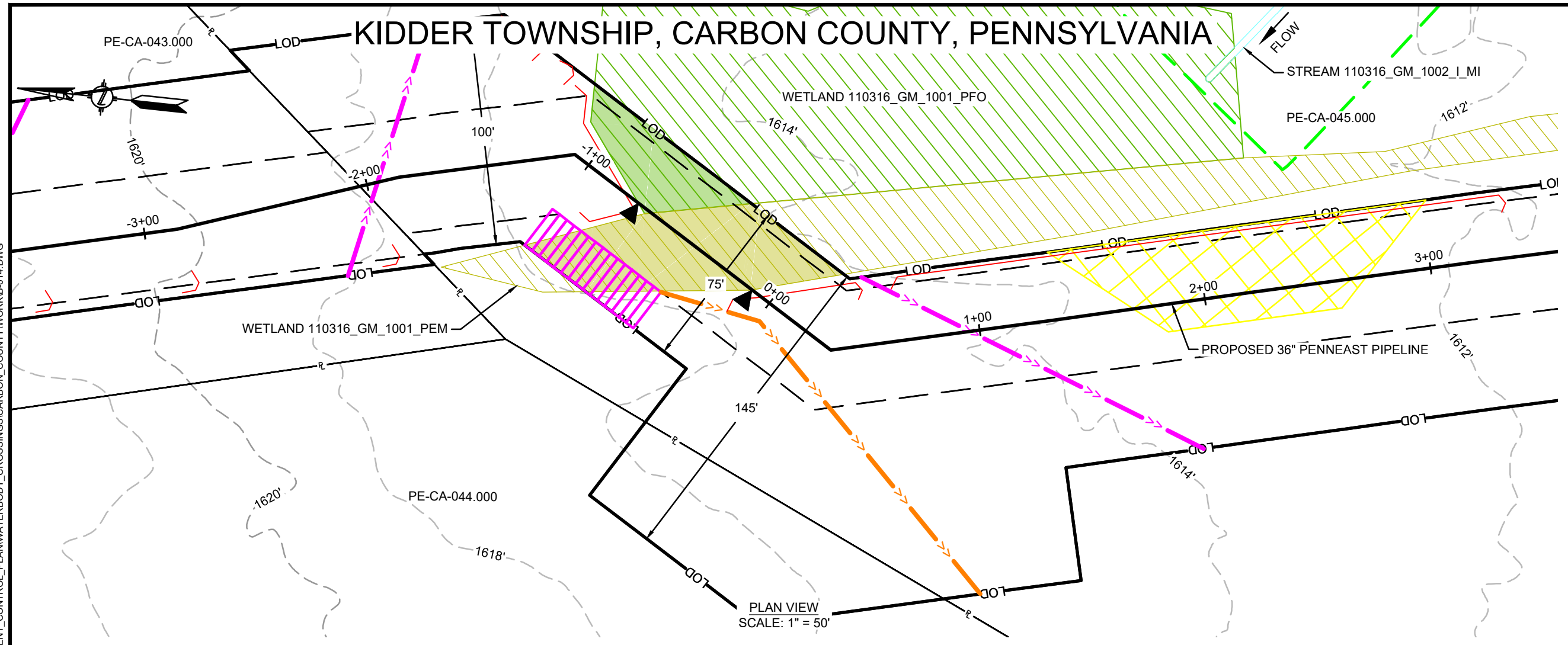
PENNEAST PIPELINE PROJECT

WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
M.P. 31.1R2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-016	0

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KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
110316_GM_1001_PFO	WETLAND	0.01	-	-	0.03	-	-	CL - OPEN CUT	-	-	MATTED
110316_GM_1001_PEM - 1	WETLAND	0.02	-	-	0.06	-	-	CL - OPEN CUT	-	-	MATTED

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

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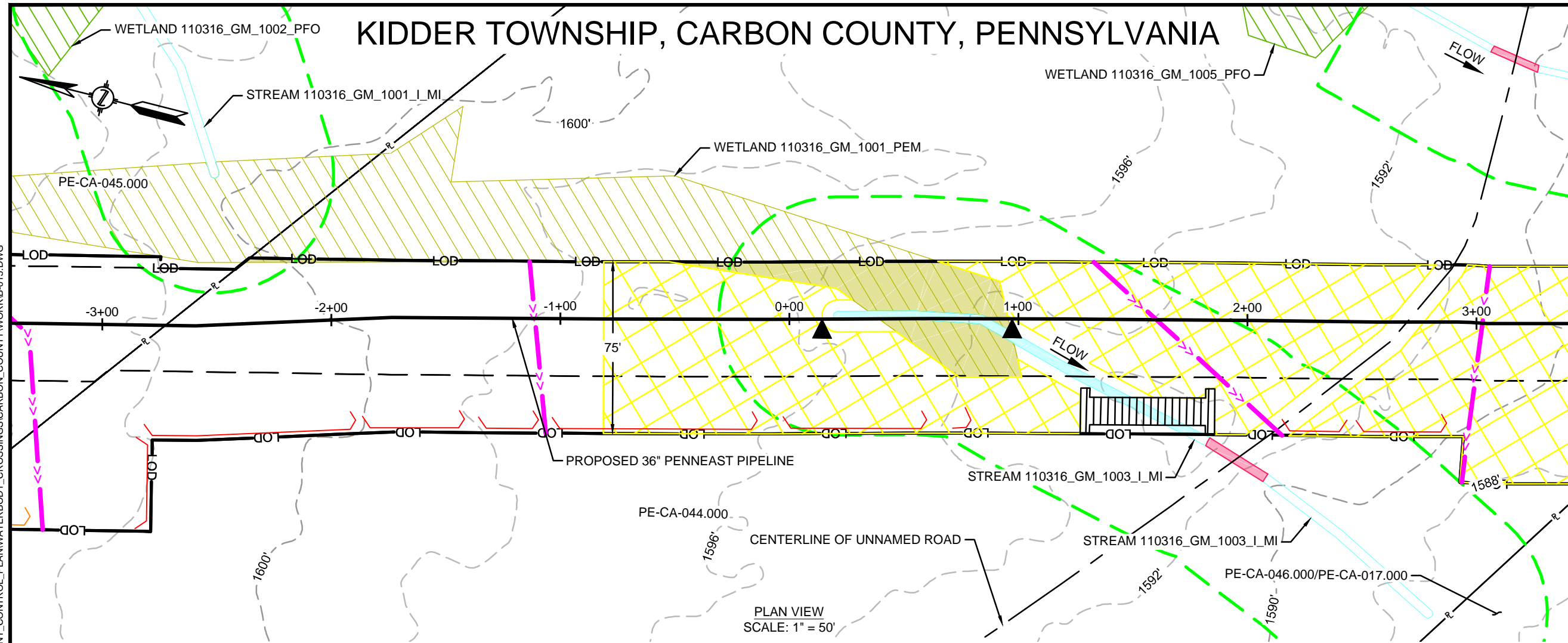
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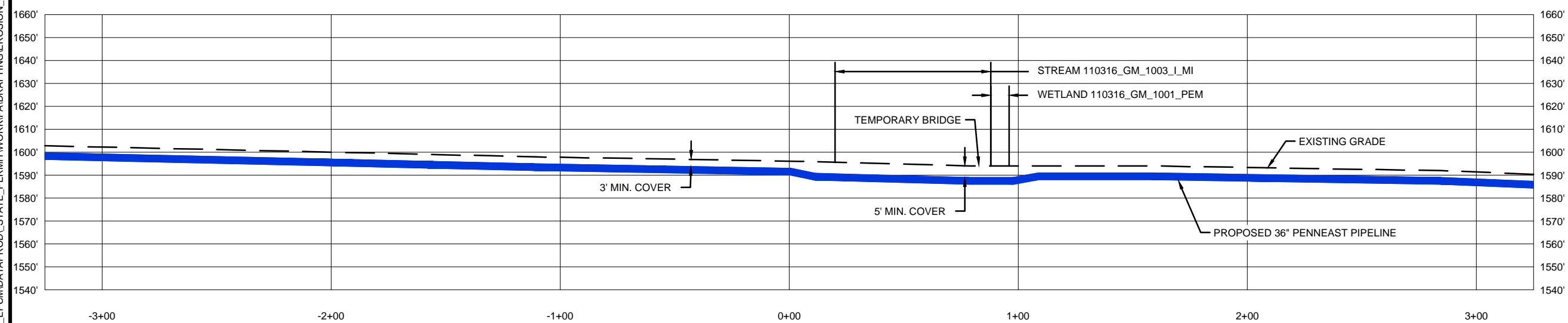
PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
M.P. 32.5R2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-017	0

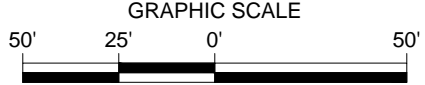
KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD				EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY		
110316_GM_1001_I_MI	WATERBODY	-	-	0.01	-	-	0.01	N/A	N/A	N/A	N/A	N/A - WORKSPACE
110316_GM_1001_PEM - 2	WETLAND	-	-	-	0.00	-	-	N/A - WORKSPACE	-	-	-	MATTED
110316_GM_1001_PEM - 3	WETLAND	0.00	-	-	0.06	-	-	CL - OPEN CUT	-	-	-	MATTED
110316_GM_1003_I_MI	WATERBODY	-	0.01	0.15	-	0.01	0.24	DPX	FX	DX-NF	-	MAT BRIDGE OR EQUIVALENT

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

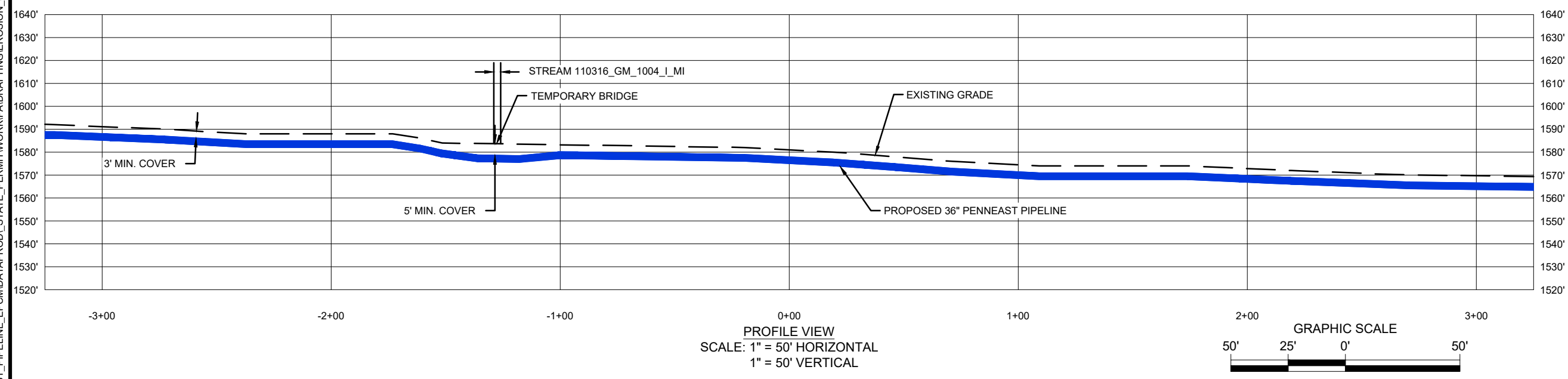
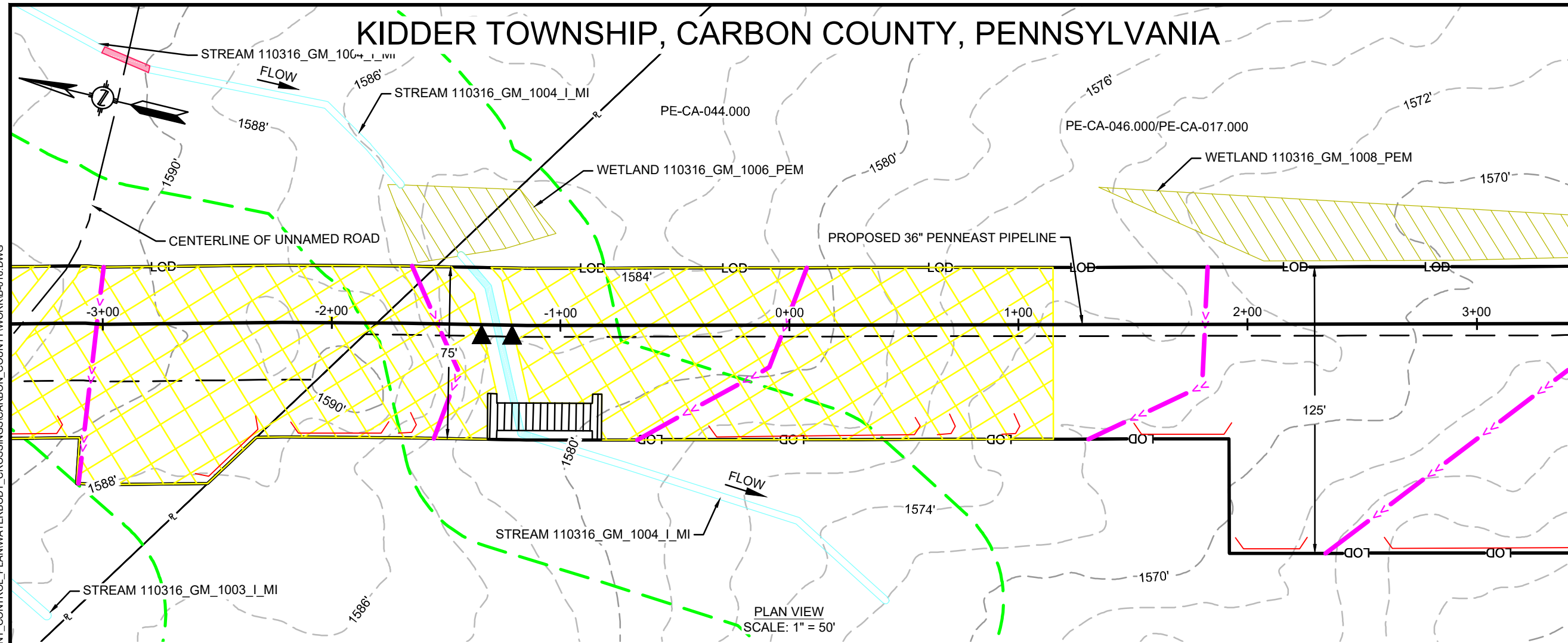
PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 32.7R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-018	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	CROSSING METHOD		PERMANENT DISTURBANCE (ACRES)	TEMPORARY DISTURBANCE (ACRES)	RESOURCE TYPE	FEATURE ID			
	PRIMARY	SECONDARY					TERTIARY		
	DPX	FX	DX-NF	0.08	0.00	0.17	0.00	WATERBODY	110316_GM_1004_I_MI

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

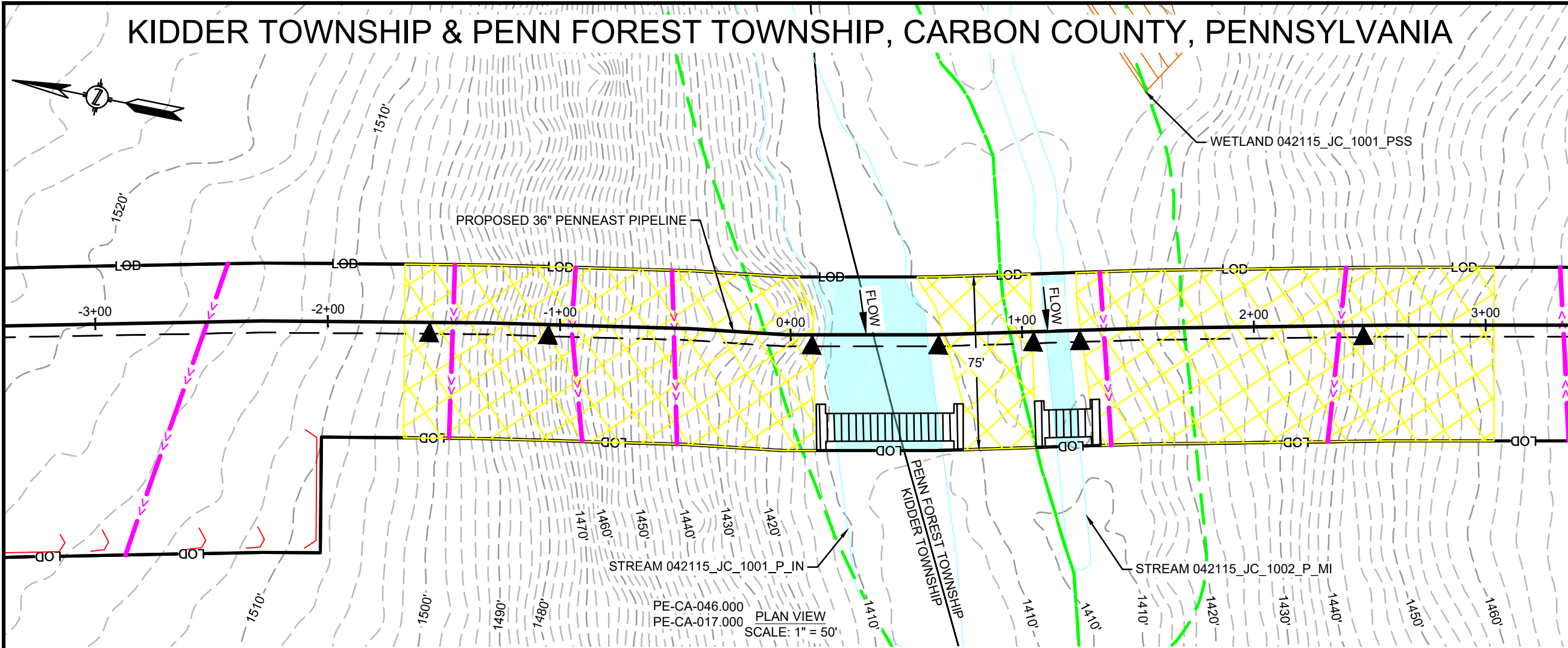
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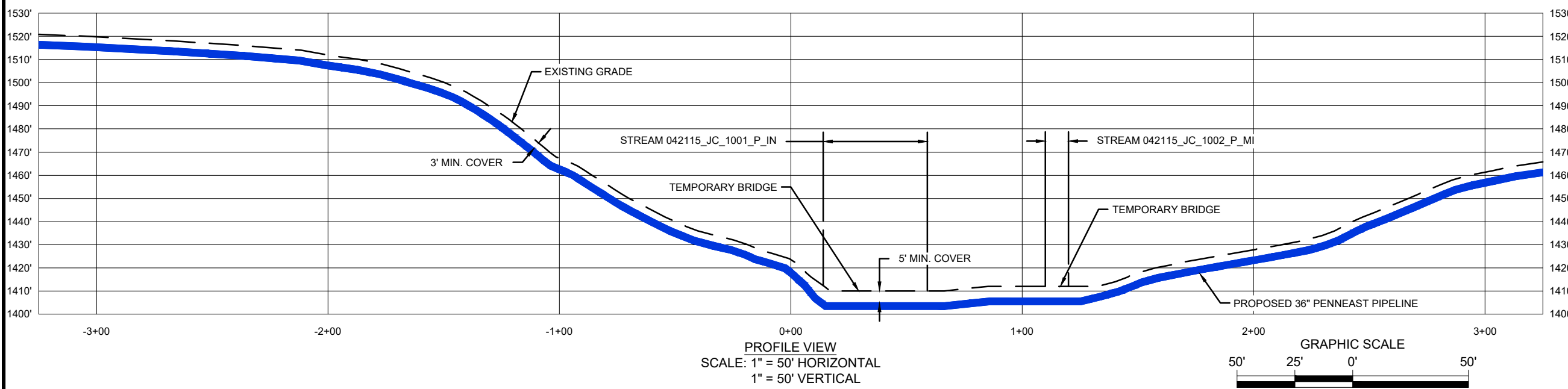
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 32.9R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-019	0

KIDDER TOWNSHIP & PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PE-CA-046.000
PE-CA-017.000
PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING	
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	MAT BRIDGE OR EQUIVALENT	MAT BRIDGE OR EQUIVALENT
042115_JC_1002_P_MI	WATERBODY	-	0.01	0.06	-	0.01	0.05	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT	MAT BRIDGE OR EQUIVALENT
042115_JC_1001_P_IN	WATERBODY	-	0.05	0.06	-	0.03	0.04	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT	MAT BRIDGE OR EQUIVALENT

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REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

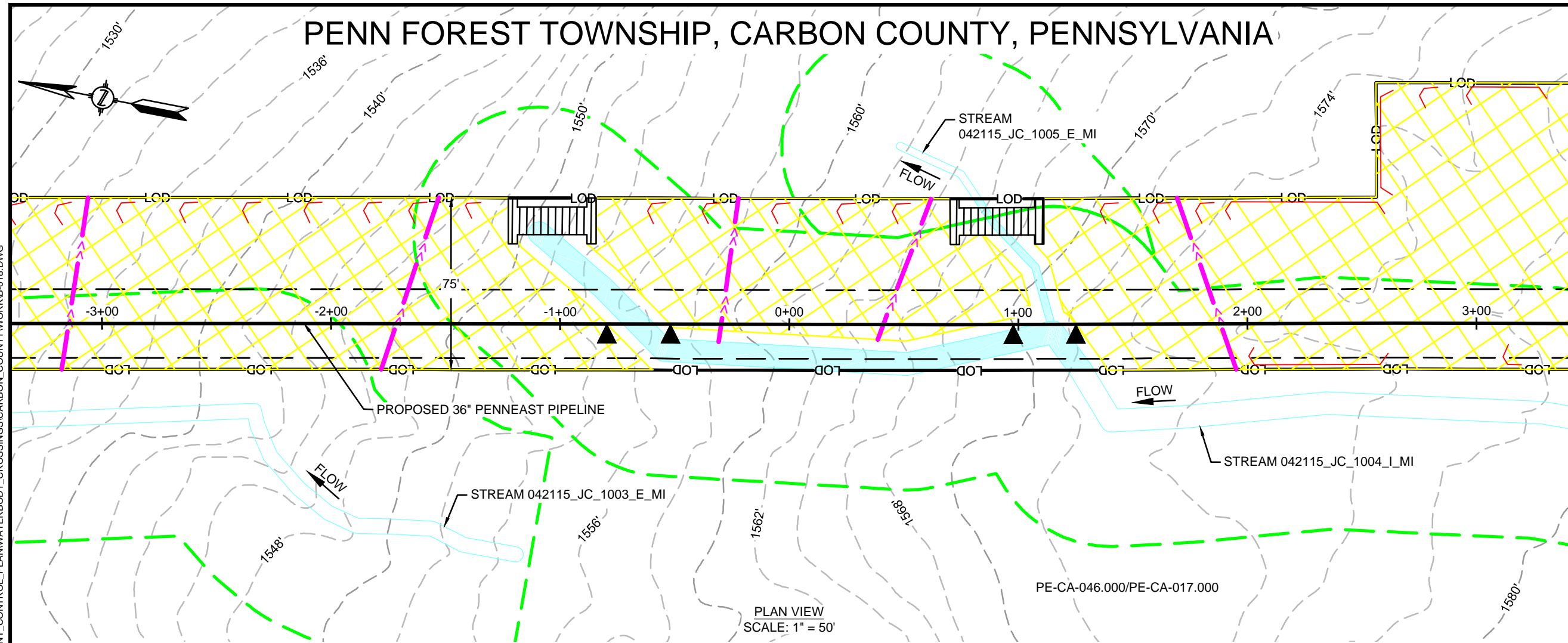
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PREPARED BY:

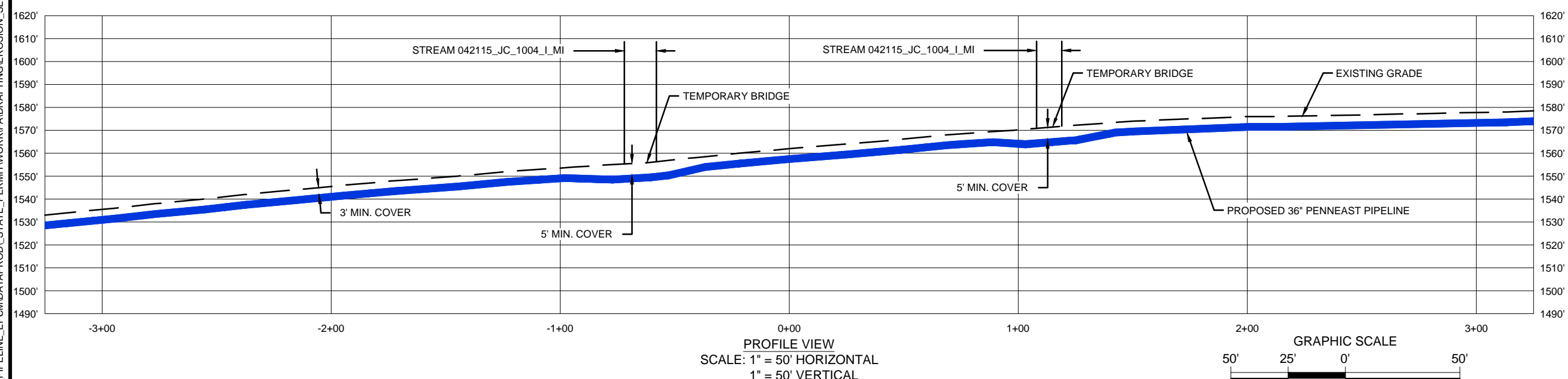
PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 KIDDER TOWNSHIP & PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 33.2R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-020	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	WETLAND	PRIMARY	SECONDARY	TERTIARY	
042115_JC_1003_E_MI	WATERBODY	-	-	0.01	-	N/A	N/A	N/A	N/A
042115_JC_1004_I_MI	WATERBODY	-	-	0.31	0.02	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
042115_JC_1005_E_MI	WATERBODY	-	-	0.04	0.00	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT

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G:\PENNEAST\353754_PENNEAST_PIPELINE_EPC\DATA\PROD\STATE_PERMIT\WORK\PA\DRAWING\EROSION_SEDIMENT_CONTROL_PLAN\WATERBODY_CROSSINGS\CARBON_COUNTY\WORK\B-018.DWG

REVISIONS				APPROVALS		
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL	
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD	

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

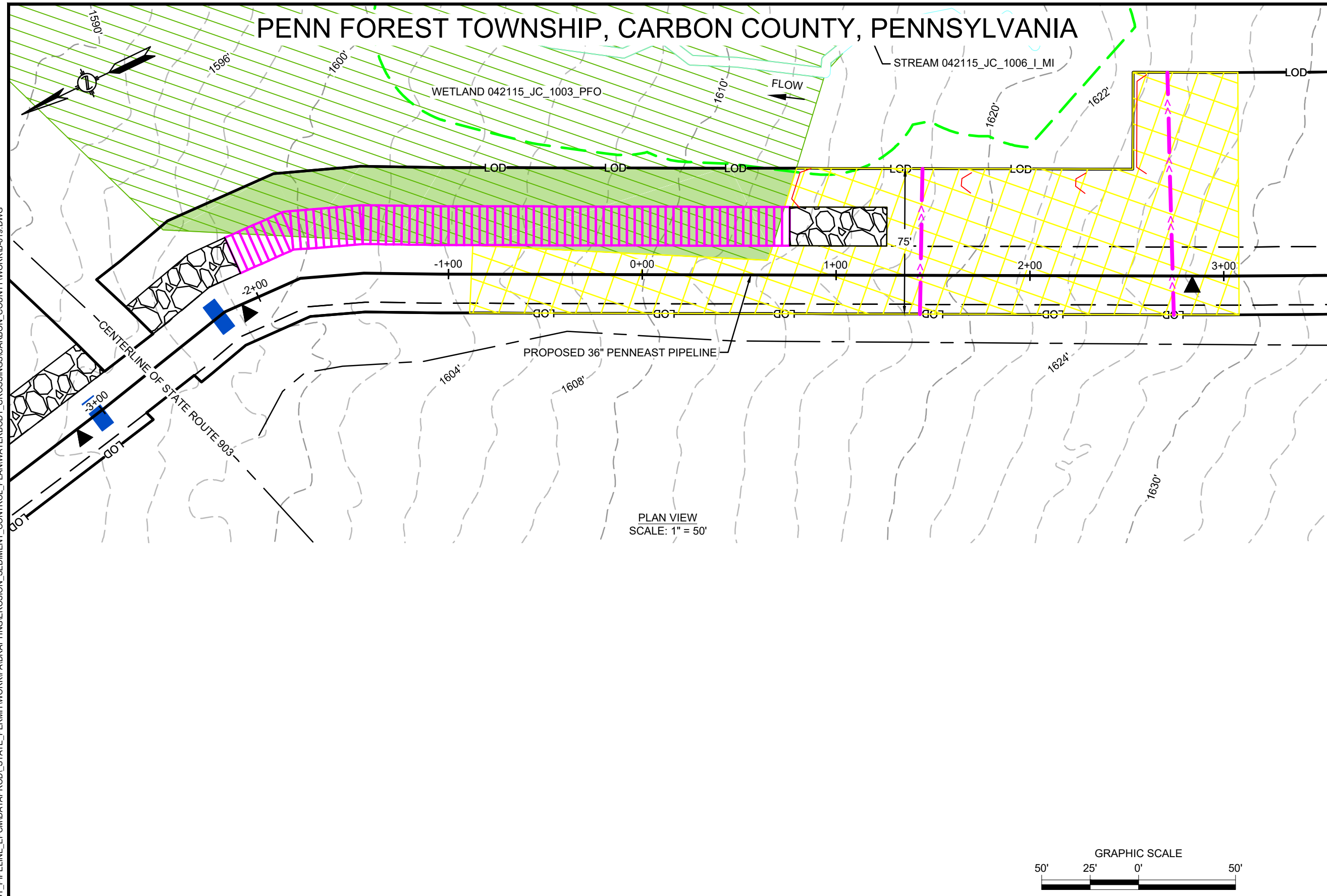
PREPARED FOR:

PREPARED BY:

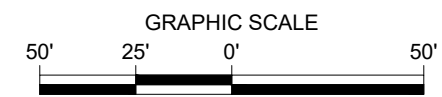
PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 33.4R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-021	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING	
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY		
042115_JC_1003_PFO	WETLAND	0.26	-	-	0.01	-	-	N/A - WORKSPACE	-	-	-	MATTED
042115_JC_1006_I_MI	WATERBODY	-	-	0.00	-	-	-	N/A	N/A	N/A	N/A	N/A - WORKSPACE

11/15/2018 7:07 PM, BARBOSA, ELIEZER
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REVISIONS					
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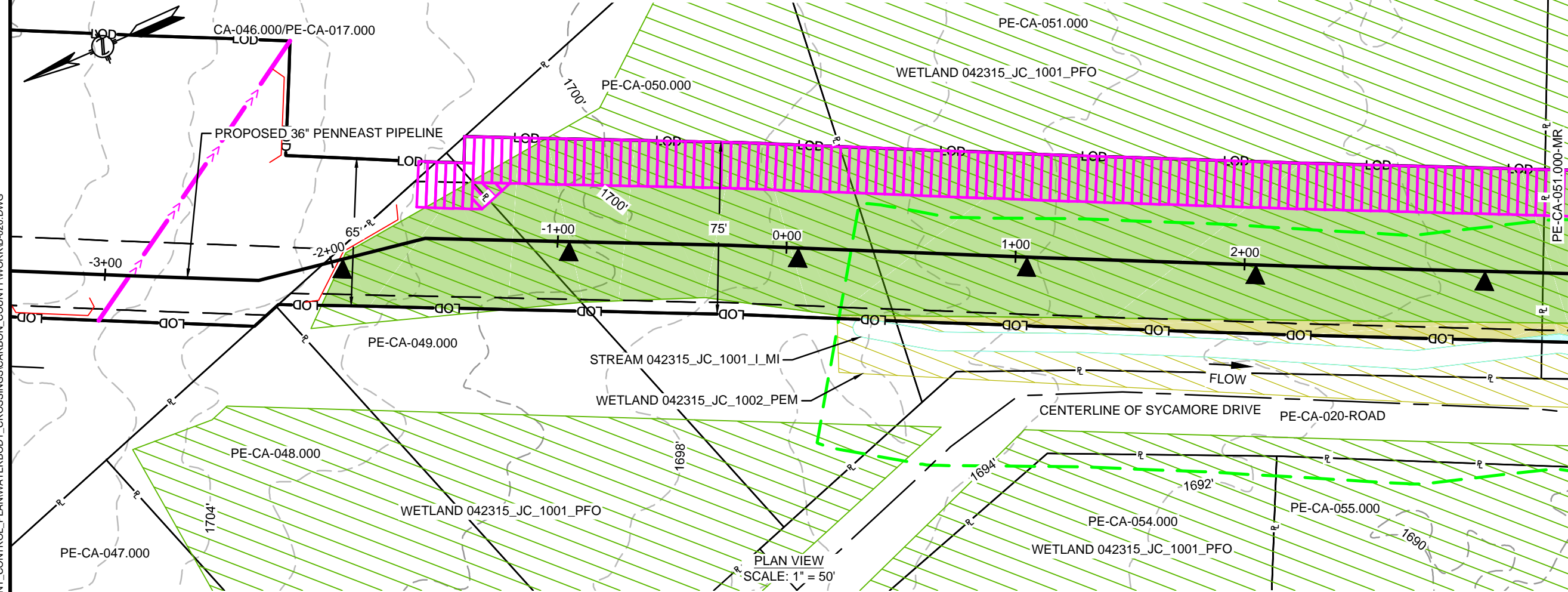
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

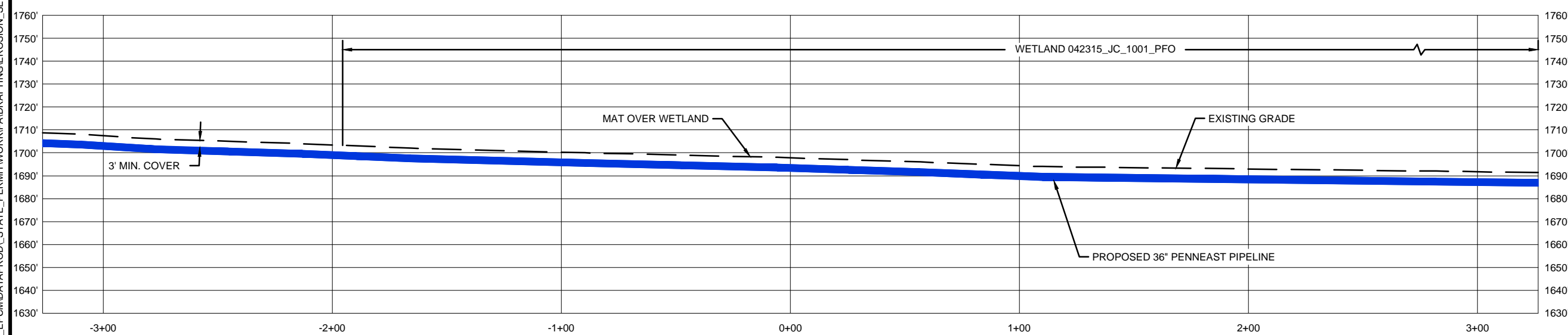
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 33.6R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-022	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
042315_JC_1001_PFO - 1	WETLAND	0.44	-	1.03	-	CL - OPEN CUT	-	-	MATTED
042315_JC_1002_PEM	WETLAND	0.07	-	0.06	-	N/A WORKSPACE	-	-	MATTED
042315_JC_1001_I_MI									

REFER TO DWG WSS-CA-ML-024 FOR IMPACT ACRES

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

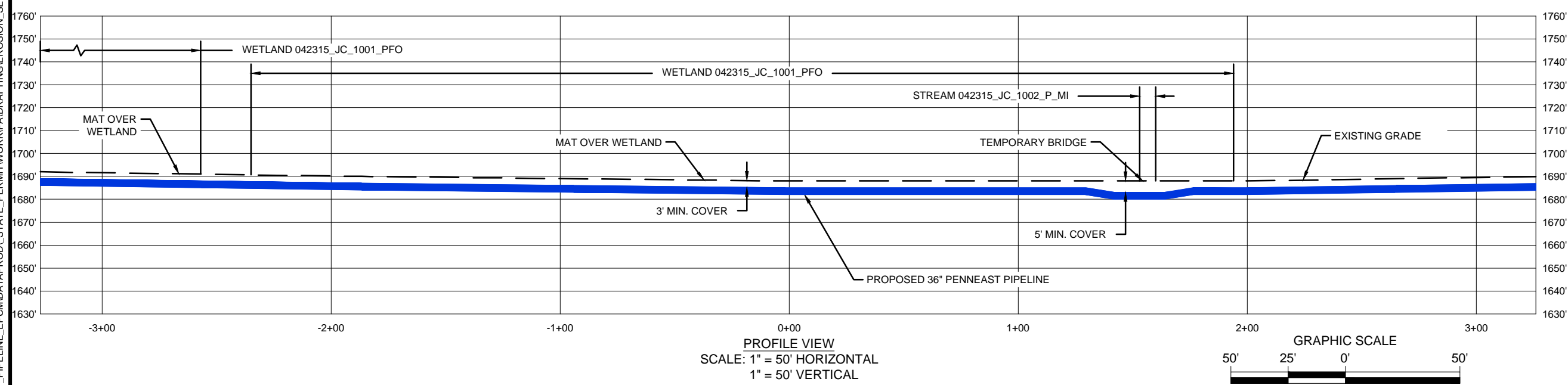
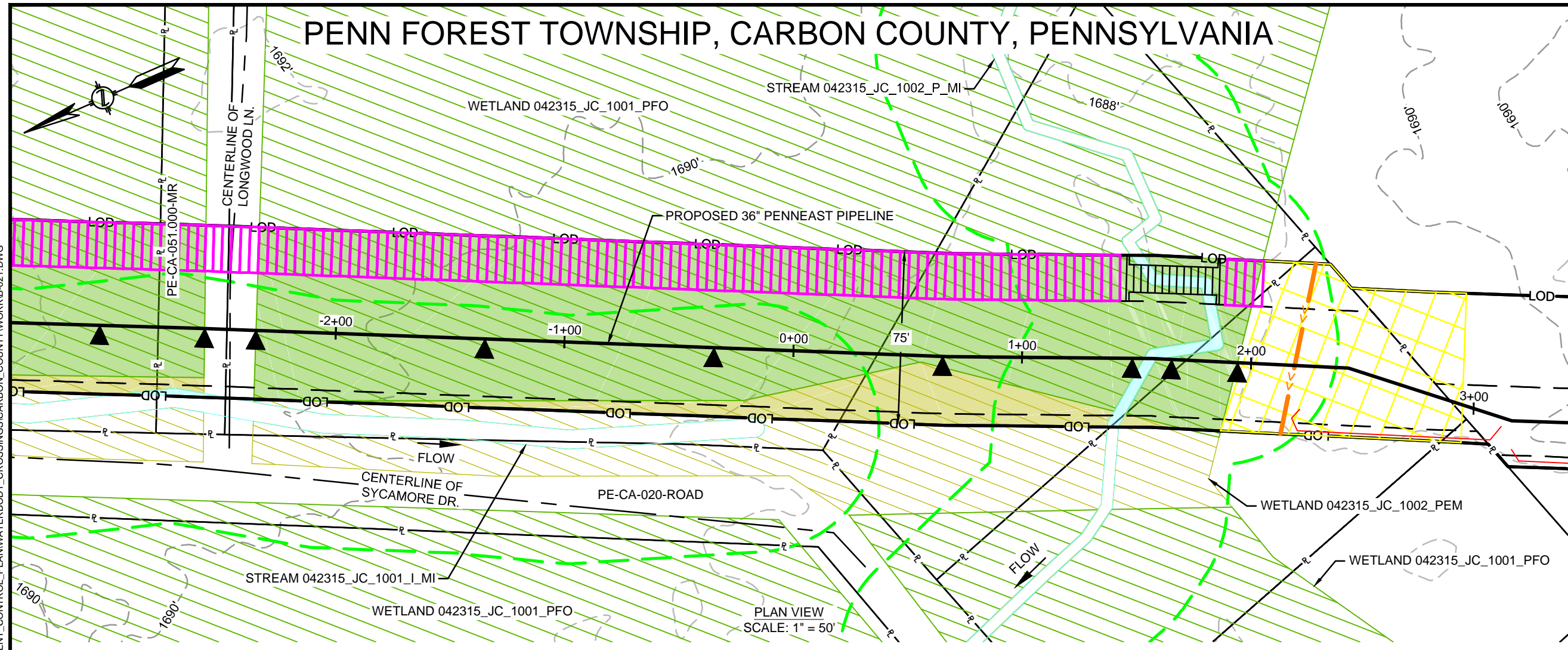
PREPARED FOR:



PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 34.7R2		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-023	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
042415_JC_1002_PEM		-	-	-	-	-	-	-	-	-	-
042315_JC_1001_I_MI	WATERBODY	-	0.00	0.07	-	0.00	0.58	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT
042315_JC_1002_P_MI	WATERBODY	-	0.01	0.07	-	0.01	0.15	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
042315_JC_1001_PFO - 1											

REFER TO DWG WSS-CA-ML-023 FOR IMPACT ACRES

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

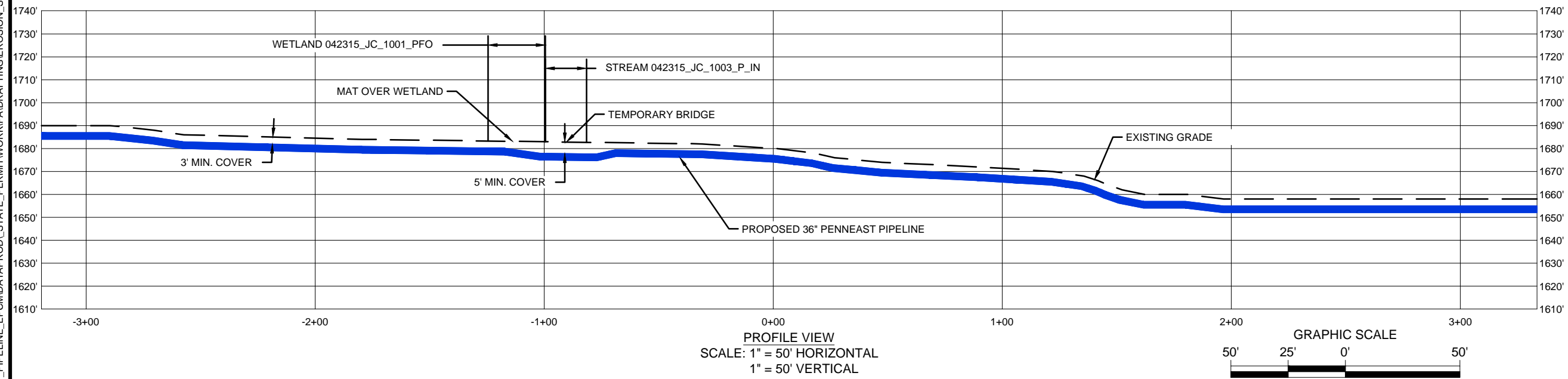
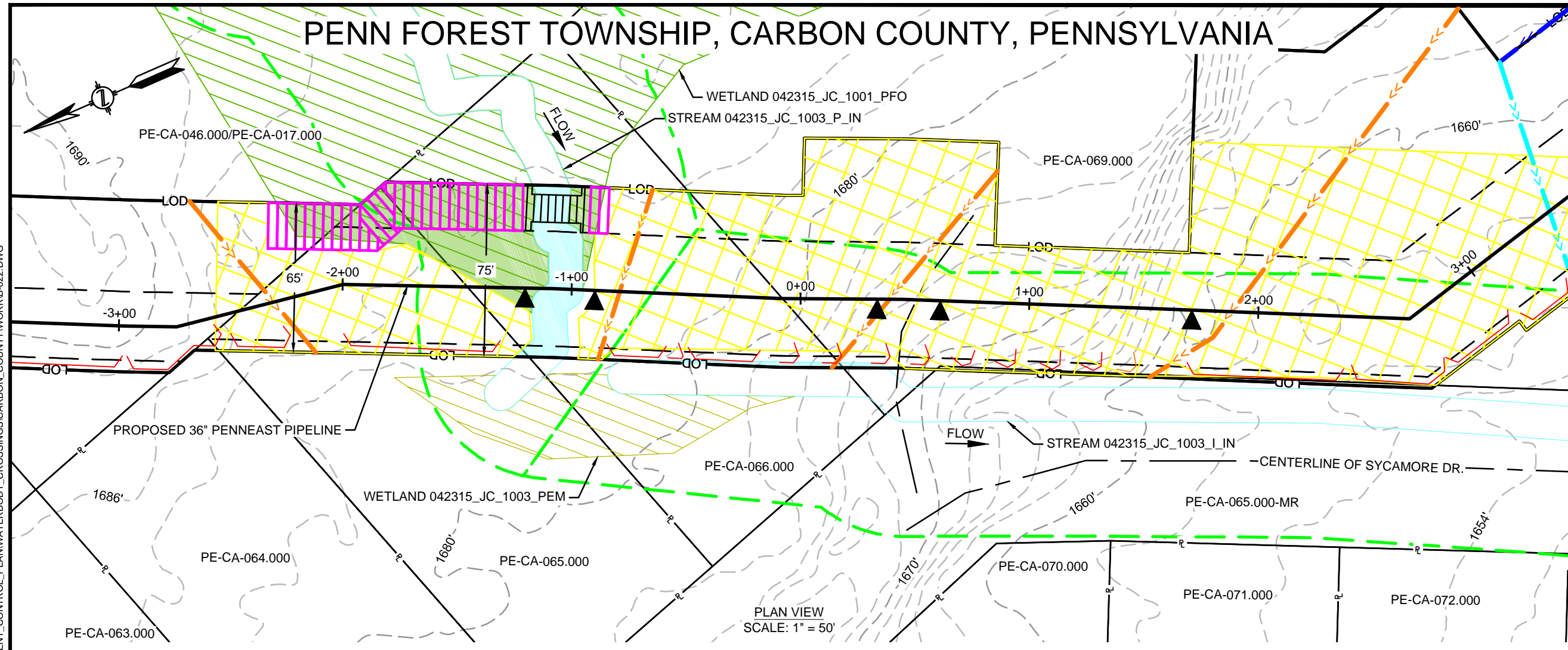
PREPARED BY:

PENNEAST PIPELINE PROJECT

WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
M.P. 34.7R2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-024	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
042315_JC_1001_PFO - 2	WETLAND	0.05	-	0.04	-	CL - OPEN CUT	-	-	MATTED
042315_JC_1003_I_IN	WATERBODY	-	0.00	-	0.36	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT
042315_JC_1003_P_IN	WATERBODY	-	0.01	-	0.10	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

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REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
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APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

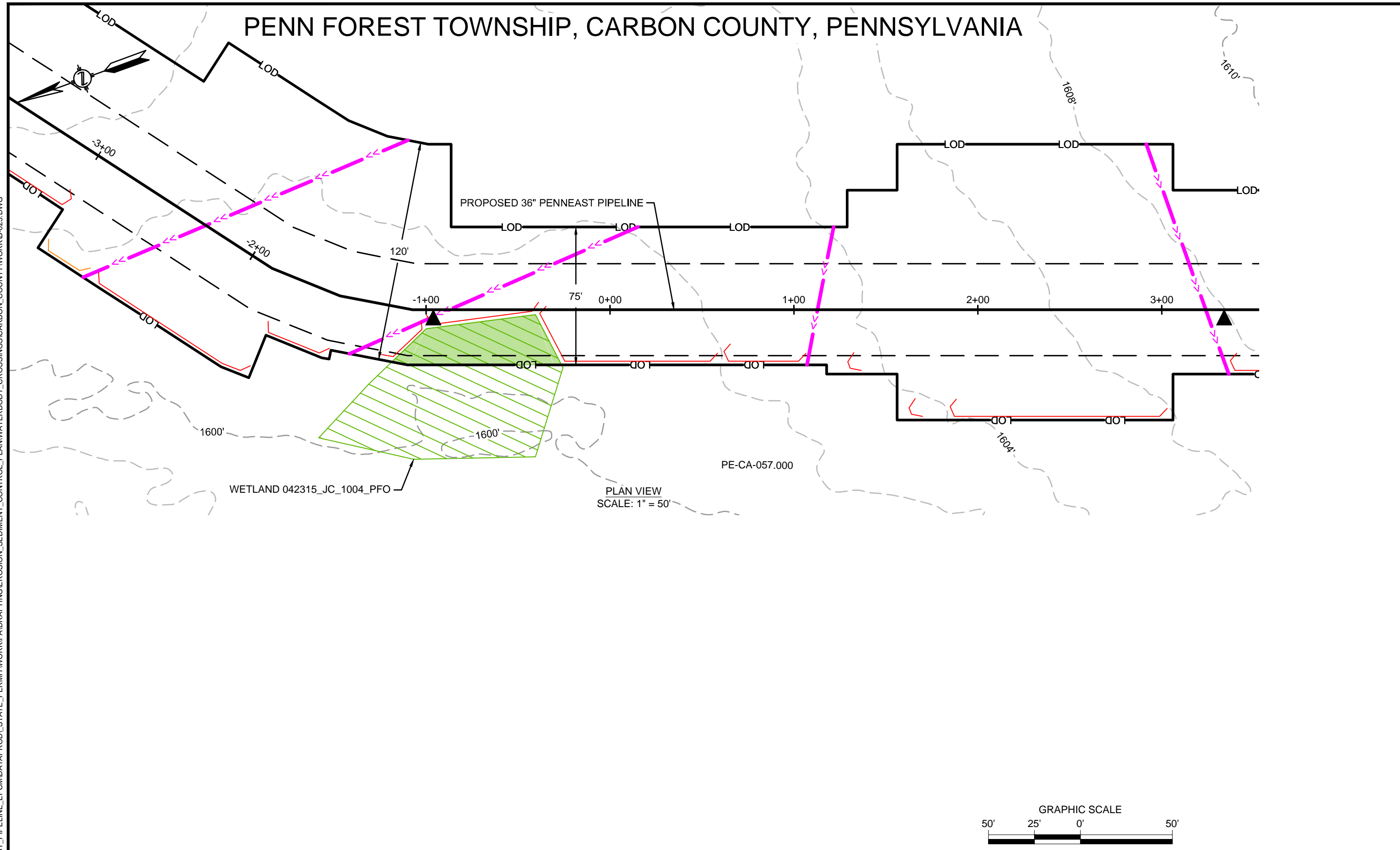
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PREPARED BY:

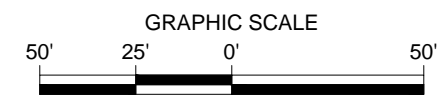
PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 34.8R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-025	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	042315_JC_1004_PFO	
	RESOURCE TYPE	WETLAND
TEMPORARY DISTURBANCE (ACRES)	WETLAND	0.01
	WATERCOURSE CHANNEL	-
	WATERCOURSE FLOODWAY	-
	WATERCOURSE FLOODWAY	-
PERMANENT DISTURBANCE (ACRES)	WETLAND	0.03
	WATERCOURSE CHANNEL	-
	WATERCOURSE FLOODWAY	-
	WATERCOURSE FLOODWAY	-
CROSSING METHOD	PRIMARY	CL - OPEN CUT
	SECONDARY	-
	TERTIARY	-
EQUIPMENT CROSSING	MATTED	



11/15/2018 10:15 AM, MORALES, HECTOR
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
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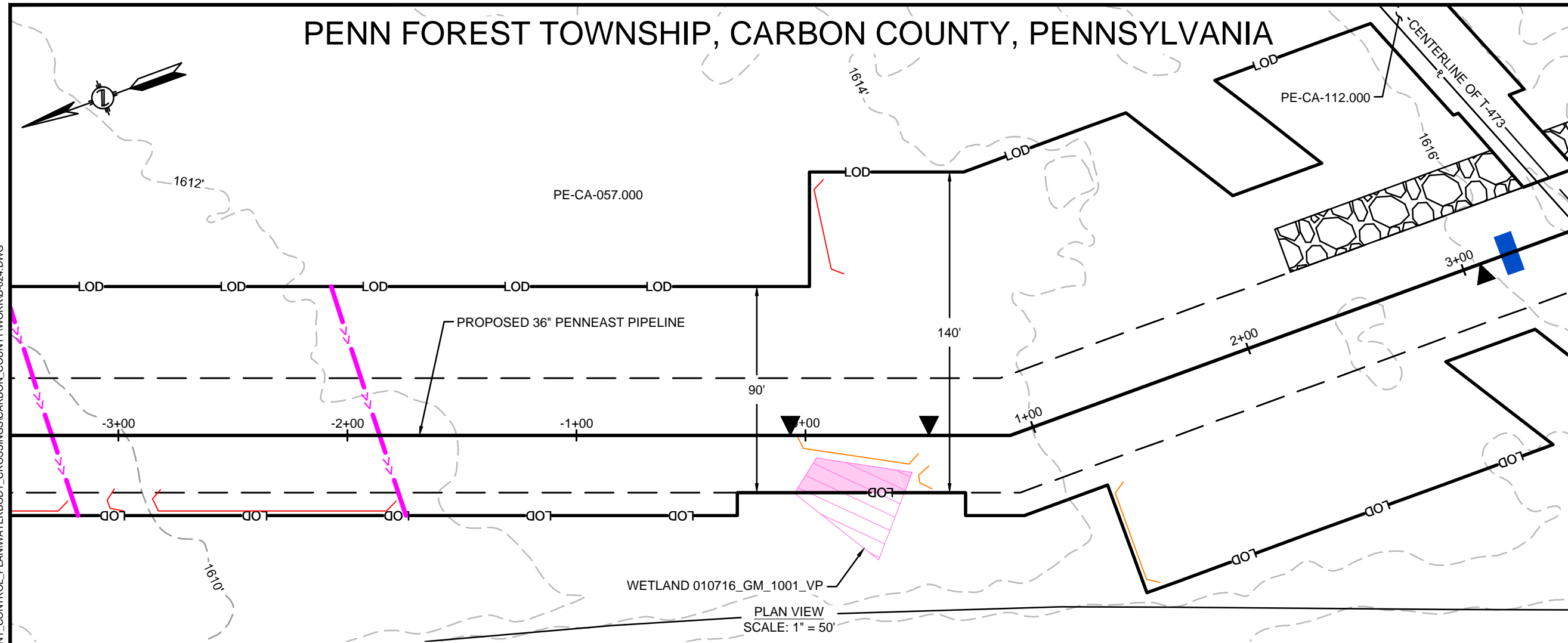
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

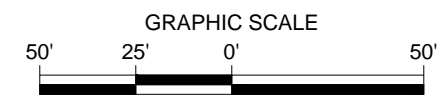
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 35.4		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-026	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



FEATURE ID	010716_GM_1001_VP		RESOURCE TYPE	WETLAND	
	PERMANENT DISTURBANCE (ACRES)			TEMPORARY DISTURBANCE (ACRES)	
WATERCOURSE CHANNEL		WATERCOURSE FLOODWAY		WATERCOURSE CHANNEL	
WATERCOURSE FLOODWAY		WATERCOURSE FLOODWAY		WATERCOURSE CHANNEL	
PRIMARY		SECONDARY		TERTIARY	
CROSSING METHOD		EQUIPMENT CROSSING		MATTED	

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
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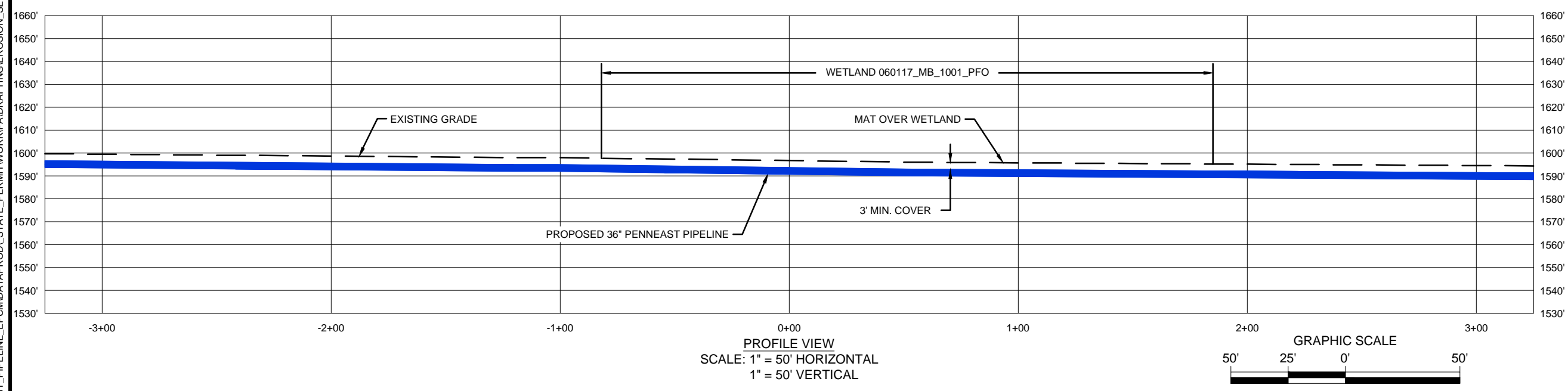
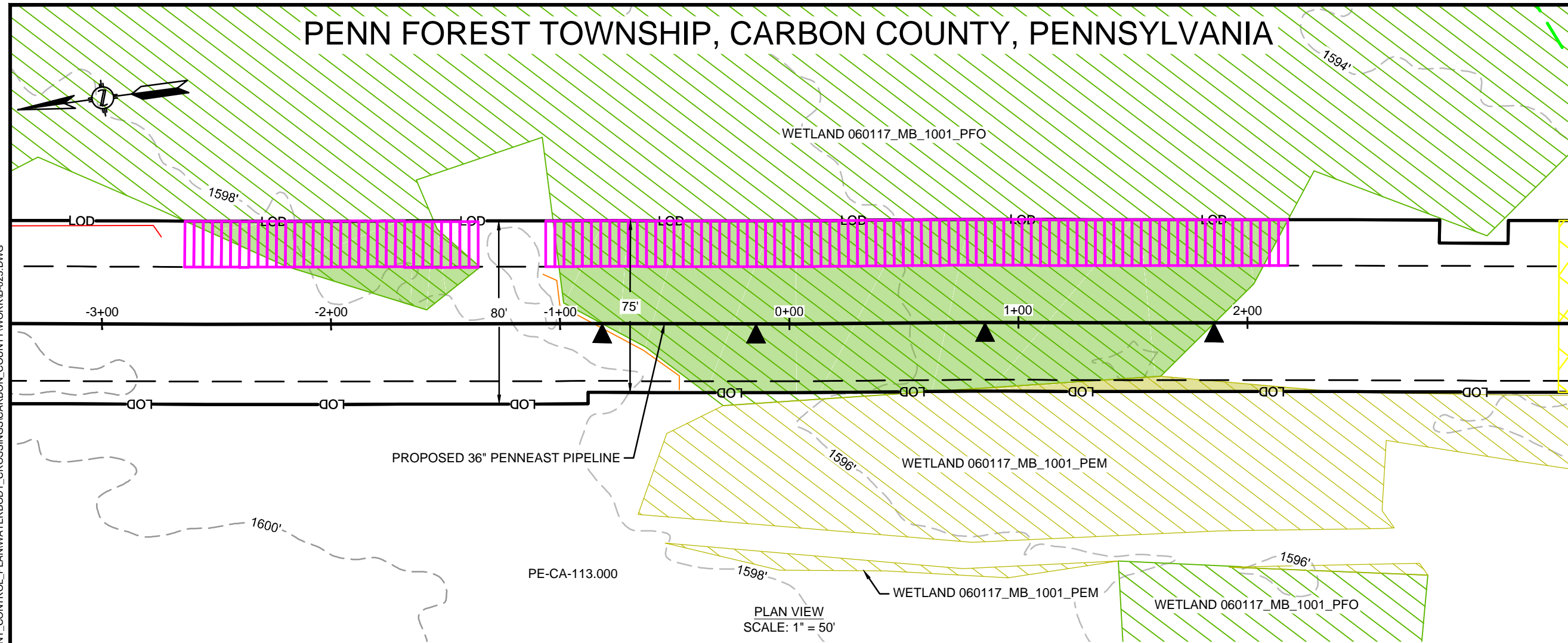
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 35.5		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-027	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
060117_MB_1001_PFO - 1	WETLAND	0.04	-	0.02	-	CL - OPEN CUT	-	-	MATTED
060117_MB_1001_PFO - 2	WETLAND	0.16	-	0.30	-	CL - OPEN CUT	-	-	MATTED
060117_MB_1001_PEM	WETLAND	0.01	-	0.00	-	N/A - WORKSPACE	-	-	MATTED

11/15/2018 10:22 AM, MORALES, HECTOR
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

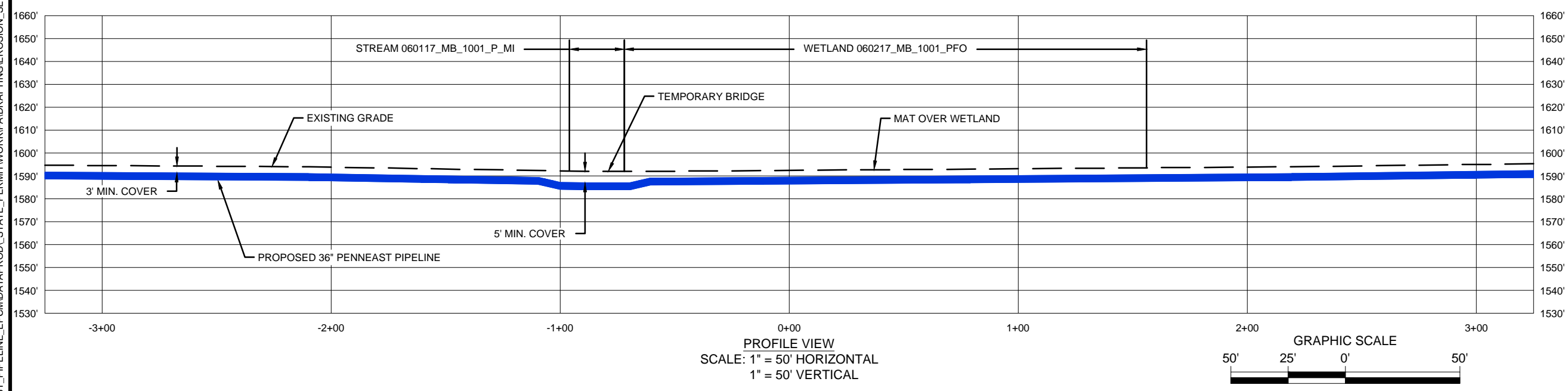
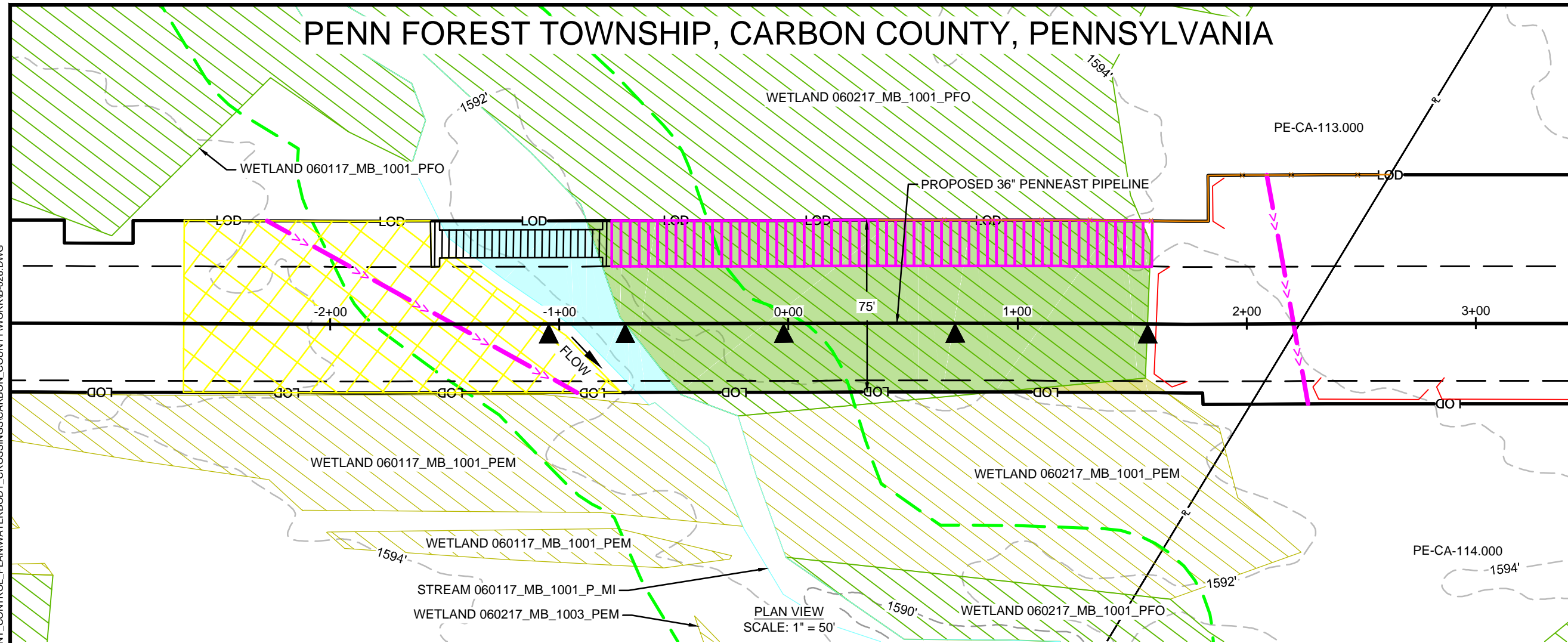
PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 35.9

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-028	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
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060217_MB_1001_PFO	WETLAND	0.13	-	0.26	-	CL - OPEN CUT	-	-	MATTED
060117_MB_1001_P_MI	WATERBODY	-	0.03	-	0.17	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

11/15/2018 5:51 PM, MORALES, HECTOR G:\PENNEAST\353754_PENNEAST_PIPELINE_EPC\DATA\PROD_STATE_PERMIT\WORK\PA\DRAWING\EROSION_SEDIMENT_CONTROL_PLAN\WATERBODY_CROSSINGS\CARBON_COUNTY\WORK\B-026.DWG

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

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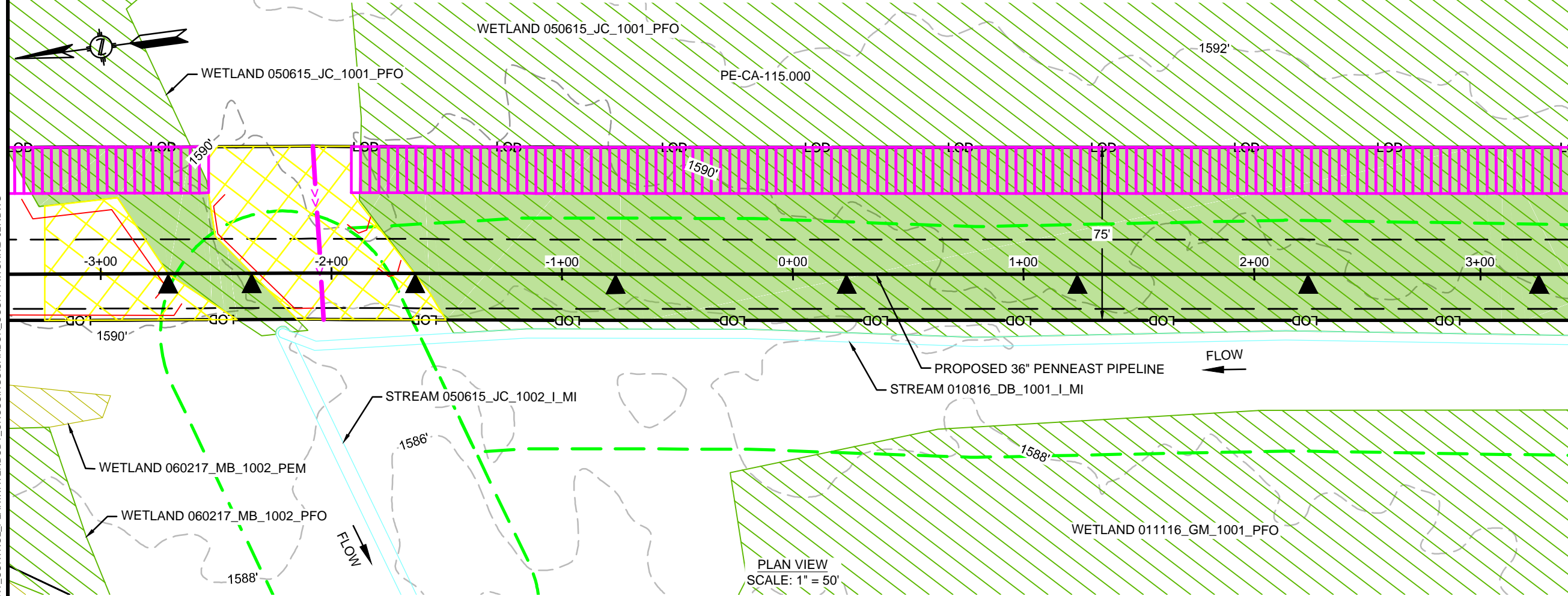
PREPARED BY:

PENNEAST PIPELINE PROJECT

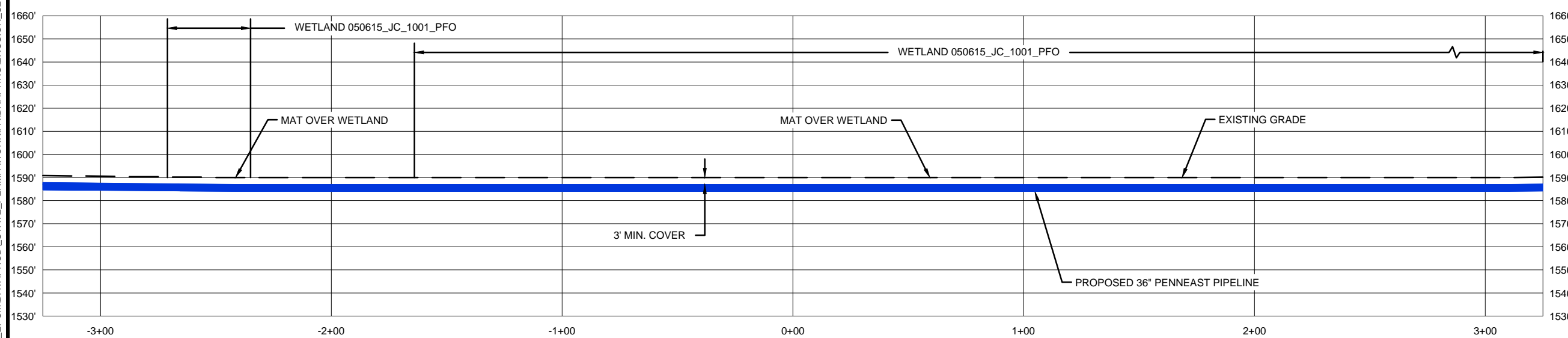
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
M.P. 36.1

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-029	0

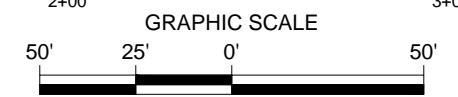
PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	PRIMARY	SECONDARY	TERTIARY	
050615_JC_1002_I_MI	WATERBODY	-	0.09	-	-	0.06	-	N/A	N/A	N/A	N/A - WORKSPACE
010816_DB_1001_I_MI	WATERBODY	-	1.04	-	-	0.76	-	N/A	N/A	N/A	N/A - WORKSPACE
050615_JC_1001_PFO - 1	WETLAND	-	-	0.06	-	-	0.02	CL - OPEN CUT	-	-	MATTED
050615_JC_1001_PFO - 2	WETLAND	-	-	1.08	-	-	0.75	CL - OPEN CUT	-	-	MATTED

11/15/2018 10:27 AM, MORALES, HECTOR
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

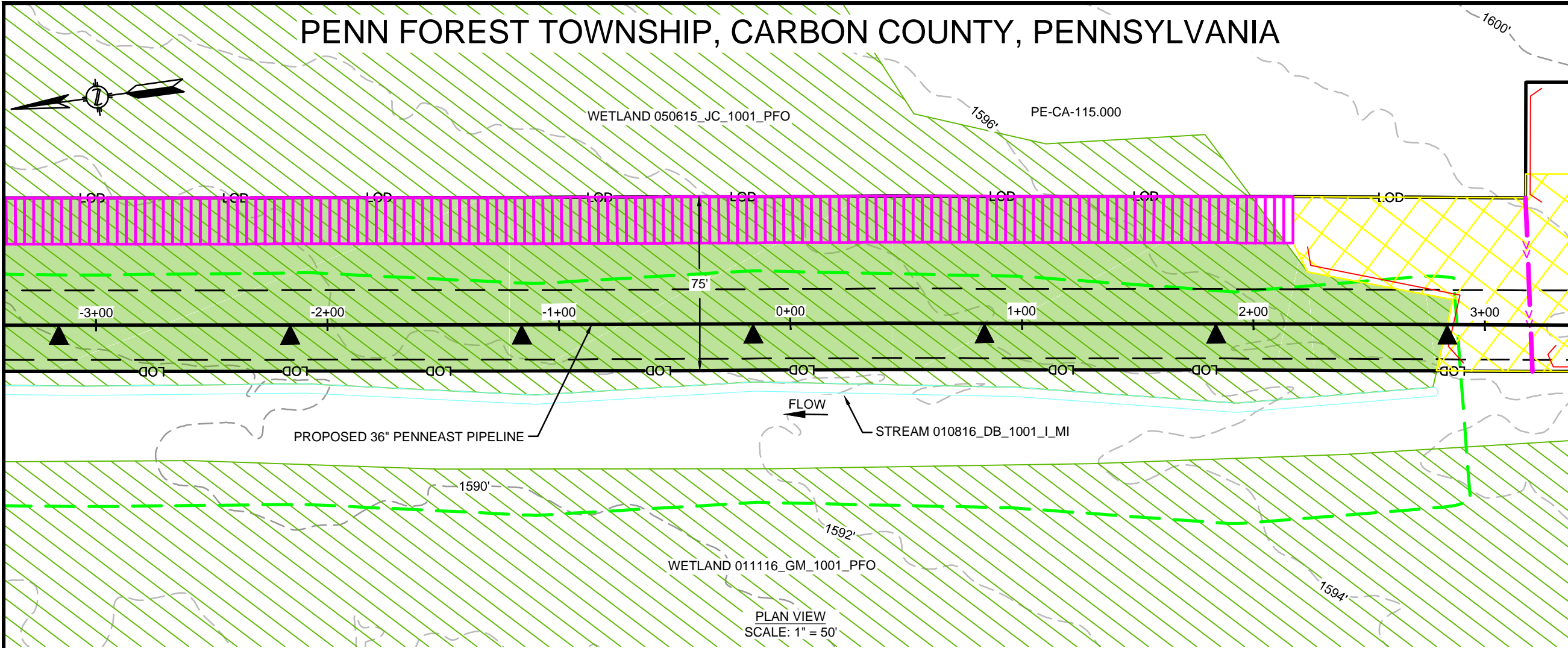
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PREPARED BY:

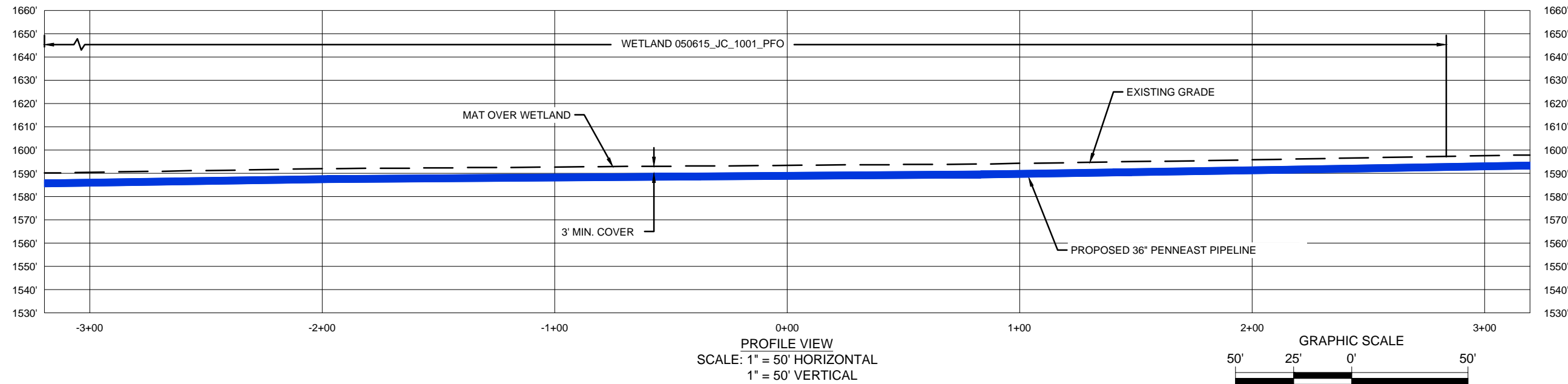
PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 36.5R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-030	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

EQUIPMENT CROSSING	CROSSING METHOD		
	PRIMARY	SECONDARY	TERTIARY
PERMANENT DISTURBANCE (ACRES)	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WATERCOURSE FLOODWAY
	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY
TEMPORARY DISTURBANCE (ACRES)	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY
	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WATERCOURSE FLOODWAY
RESOURCE TYPE			
FEATURE ID	010816_DB_1001_I_MI		
	050615_JC_1001_PFO - 2		
REFER TO DWG WSS-CA-ML-030 FOR IMPACT ACRES			
REFER TO DWG WSS-CA-ML-030 FOR IMPACT ACRES			

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REVISIONS					
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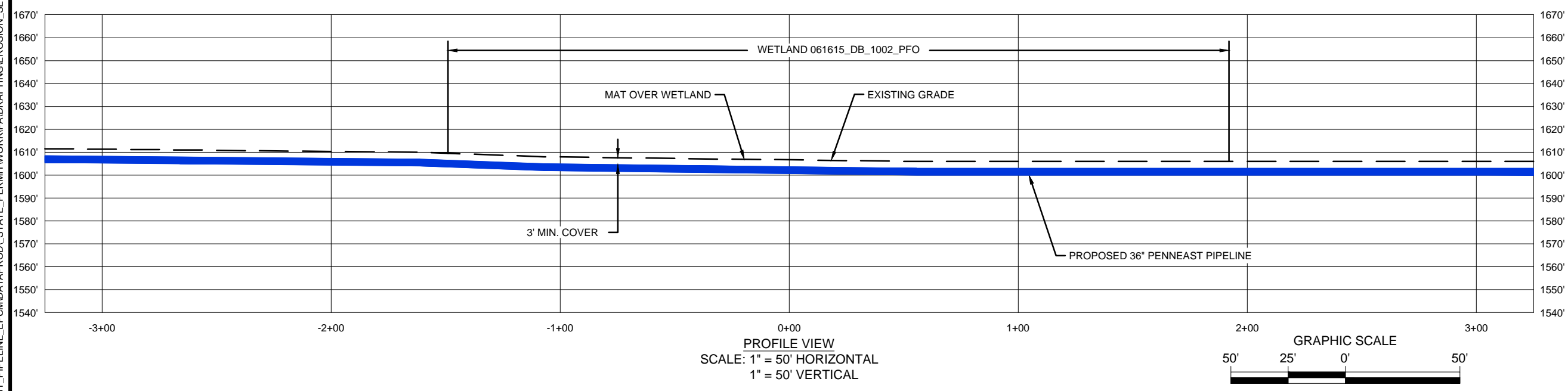
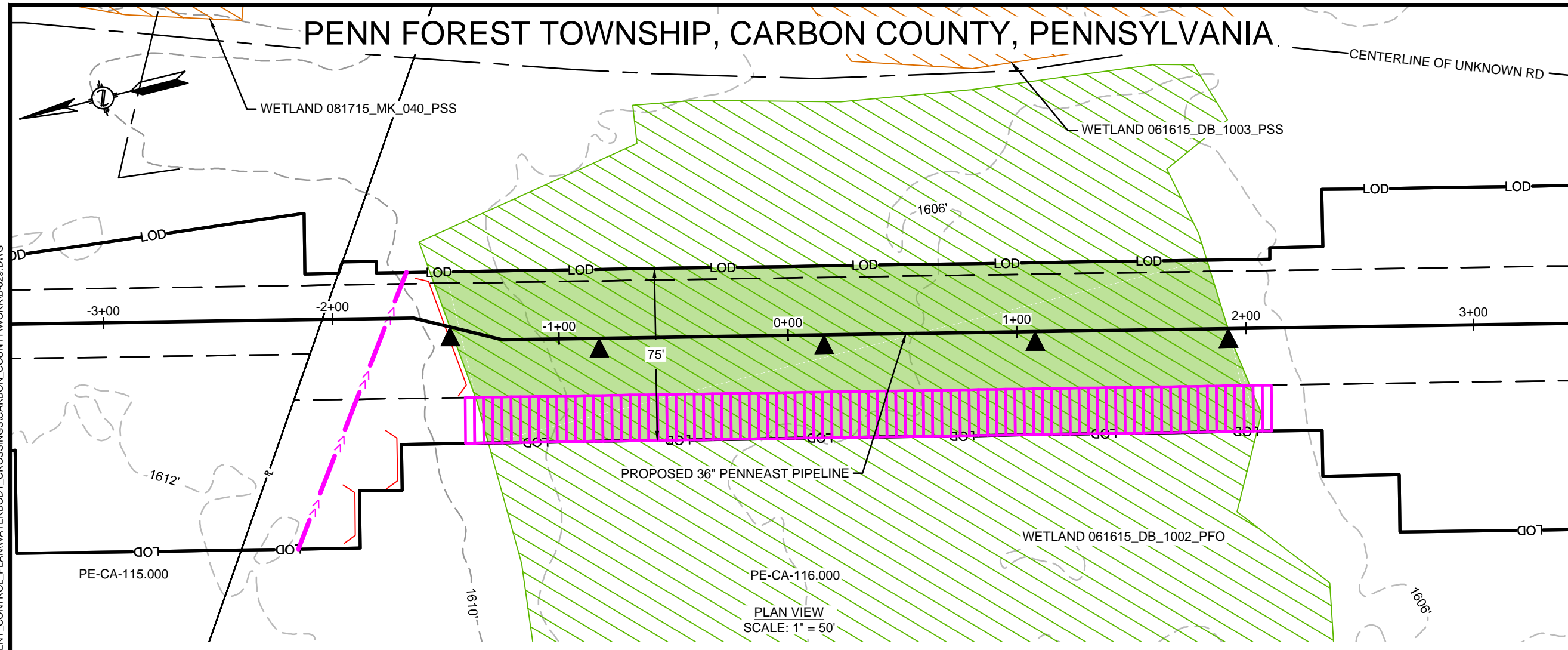
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DRAWN BY	DATE
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CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 36.6R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-031	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA.



EQUIPMENT CROSSING	MATTED			
	CROSSING METHOD	PRIMARY	SECONDARY	TERTIARY
PERMANENT DISTURBANCE (ACRES)	WATERCOURSE CHANNEL	0.39		
	WATERCOURSE FLOODWAY			
TEMPORARY DISTURBANCE (ACRES)	WATERCOURSE CHANNEL	0.19		
	WATERCOURSE FLOODWAY			
RESOURCE TYPE	WETLAND			
FEATURE ID	061615_DB_1002_PFO			

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REVISIONS					
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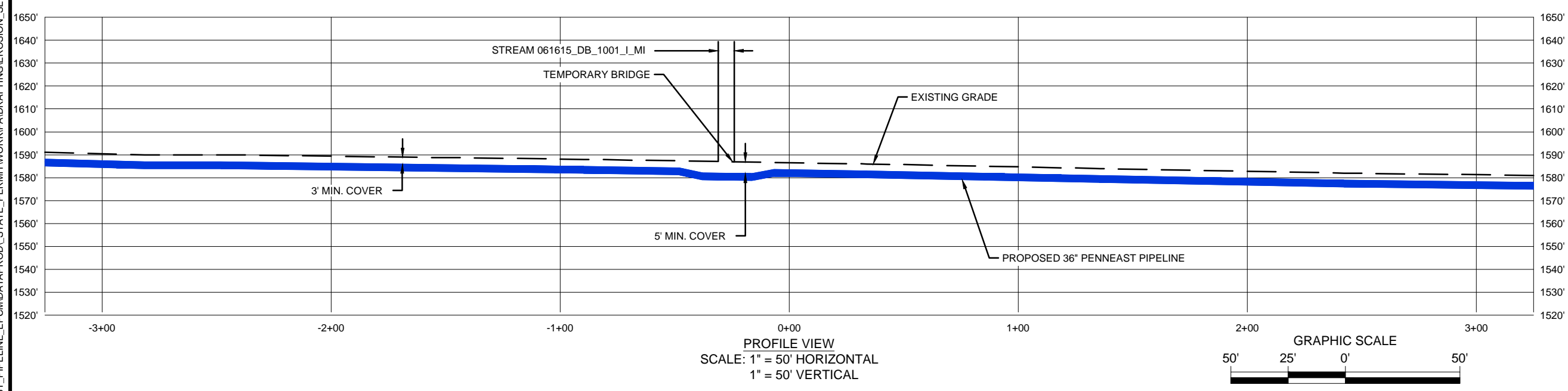
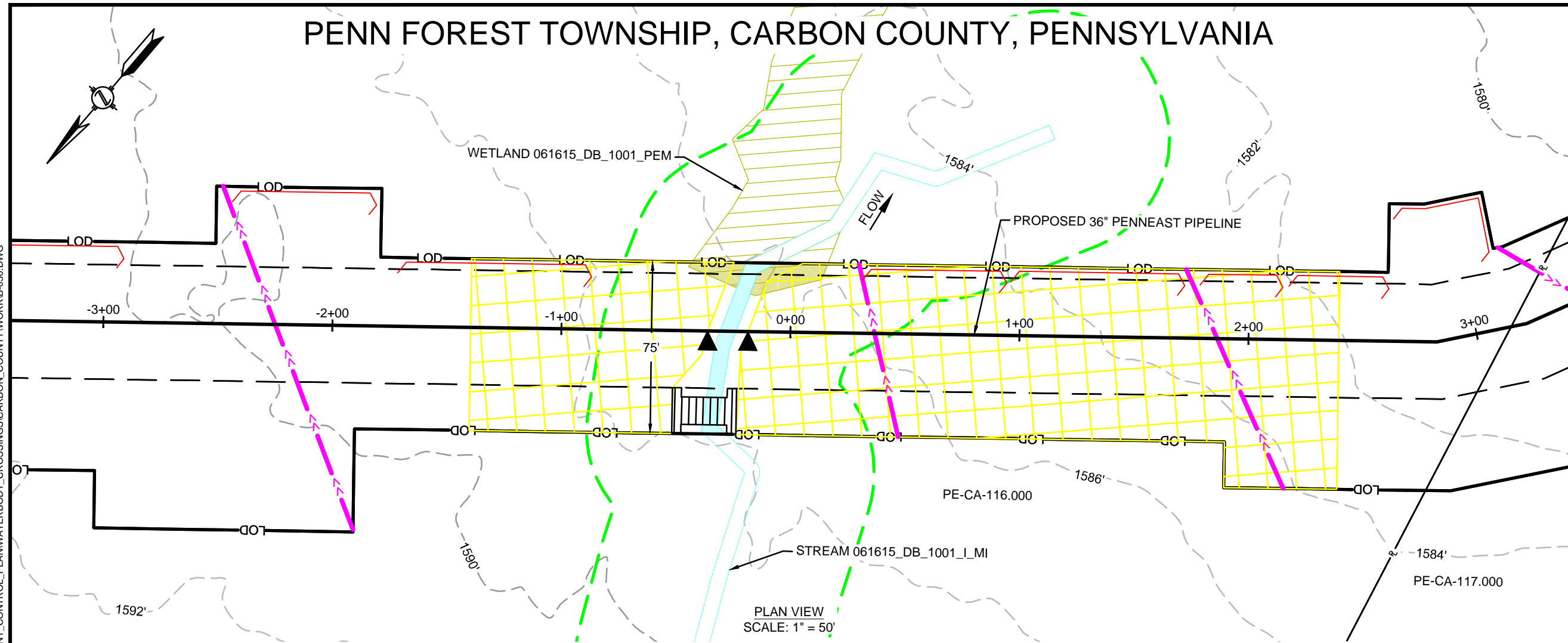
APPROVALS	
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CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 37.1R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-032	0

PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
061615_DB_1001_PEM	WETLAND	0.01	-	-	0.00	-	-	N/A - WORKSPACE	-	-	MATED
061615_DB_1001_I_MI	WATERBODY	-	0.00	0.07	-	0.01	0.14	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

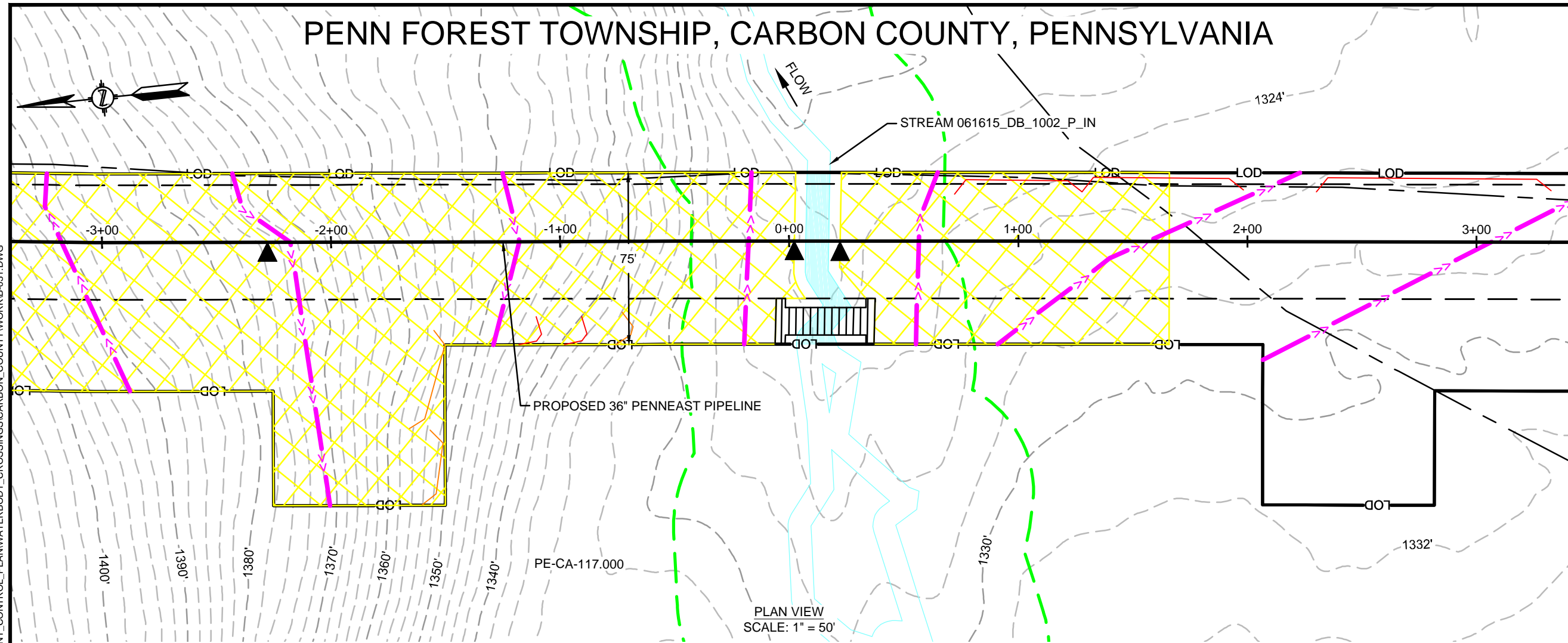


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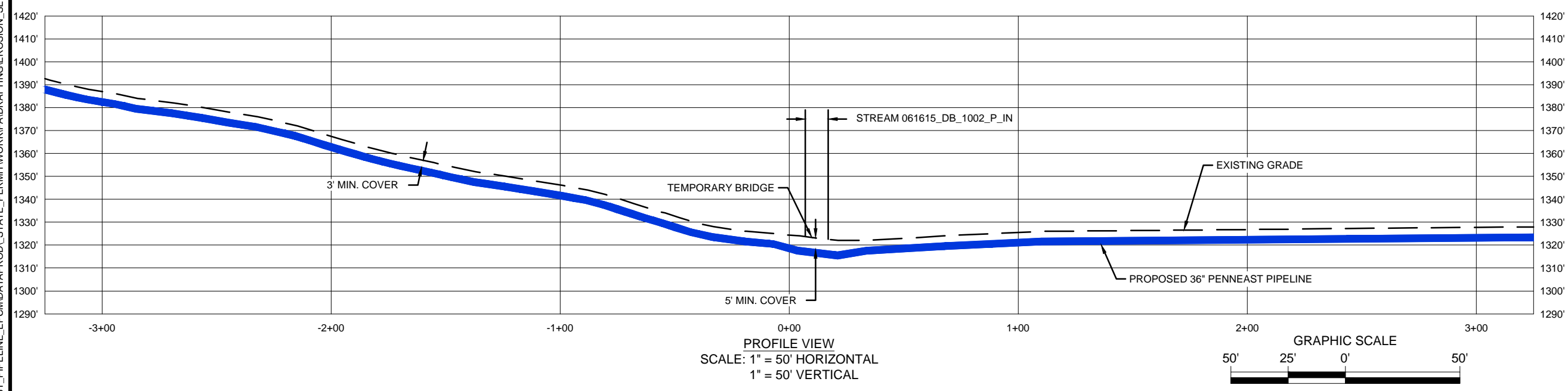
PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 37.5

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-033	0

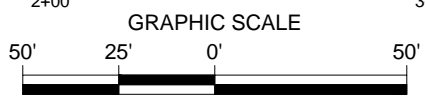
PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



EQUIPMENT CROSSING	CROSSING METHOD	WATERCOURSE CHANNEL	0.01	MAT BRIDGE OR EQUIVALENT
		WATERCOURSE FLOODWAY	0.12	
RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)	WATERCOURSE CHANNEL	0.01	WATERBODY
		WATERCOURSE FLOODWAY	0.06	
FEATURE ID	PERMANENT DISTURBANCE (ACRES)	WATERCOURSE CHANNEL	0.01	061615_DB_1002_P_IN
		WATERCOURSE FLOODWAY	0.12	
		WETLAND	-	
		WETLAND	-	
		WETLAND	-	
		WETLAND	-	

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
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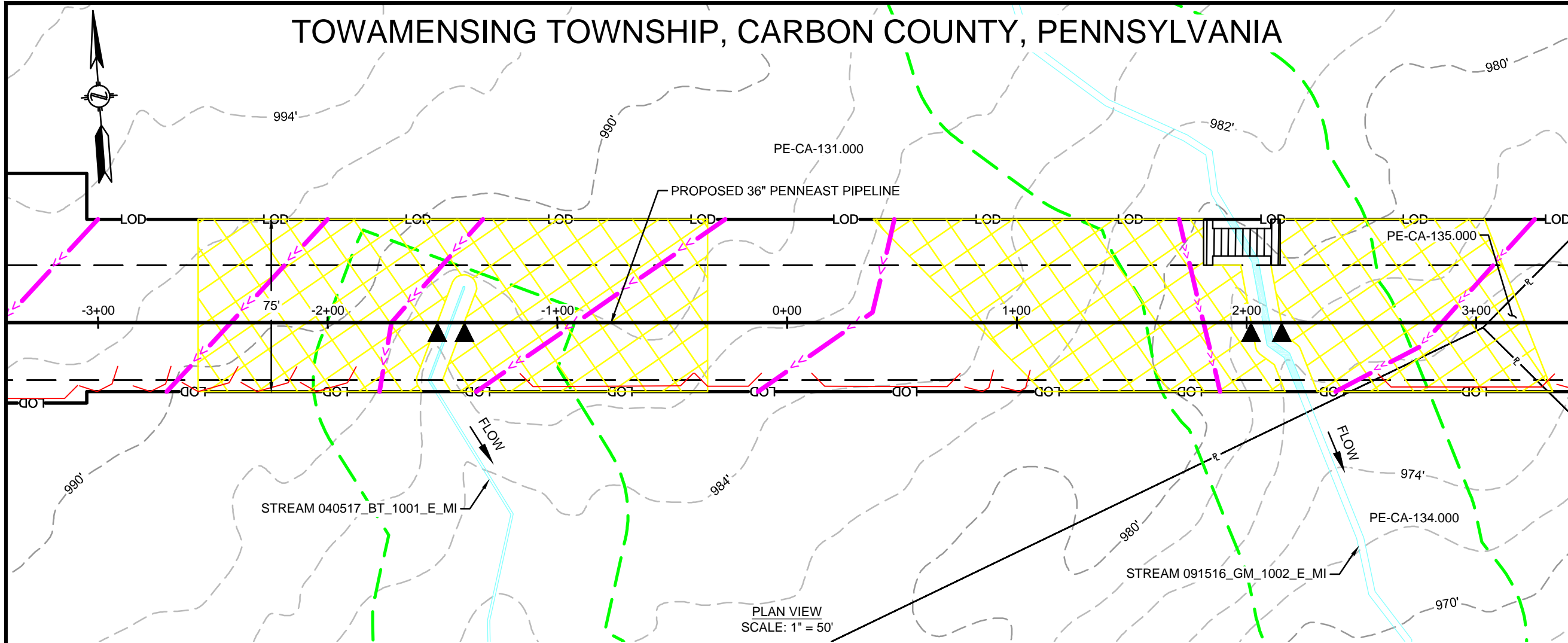
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DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
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ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

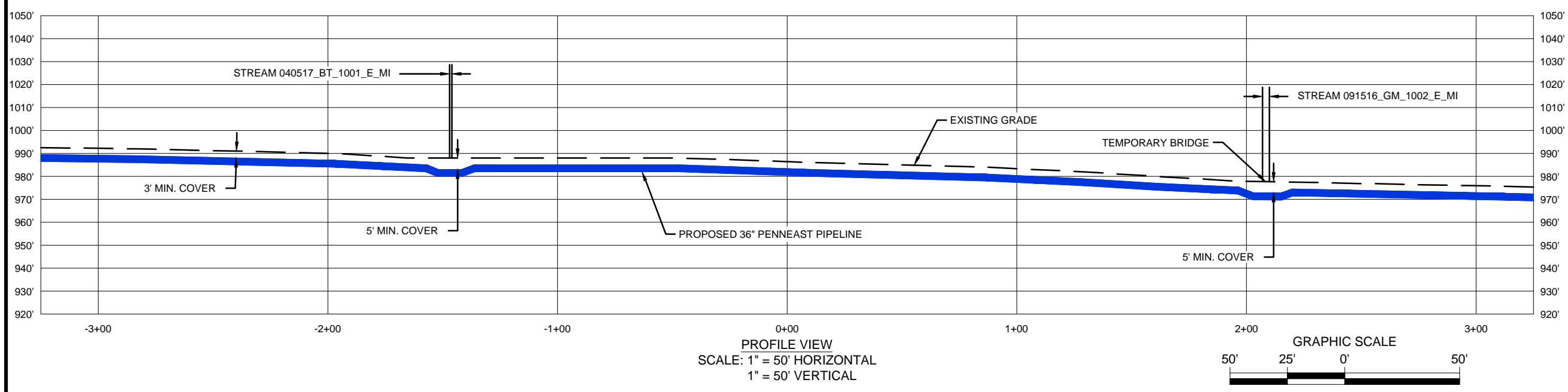
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE PENN FOREST TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 38.3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-034	0

TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
091516_GM_1002_E_MI	WATERBODY	-	0.00	0.06	-	0.00	0.12	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
040517_BT_1001_E_MI	WATERBODY	-	0.00	0.02	-	0.00	0.11	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

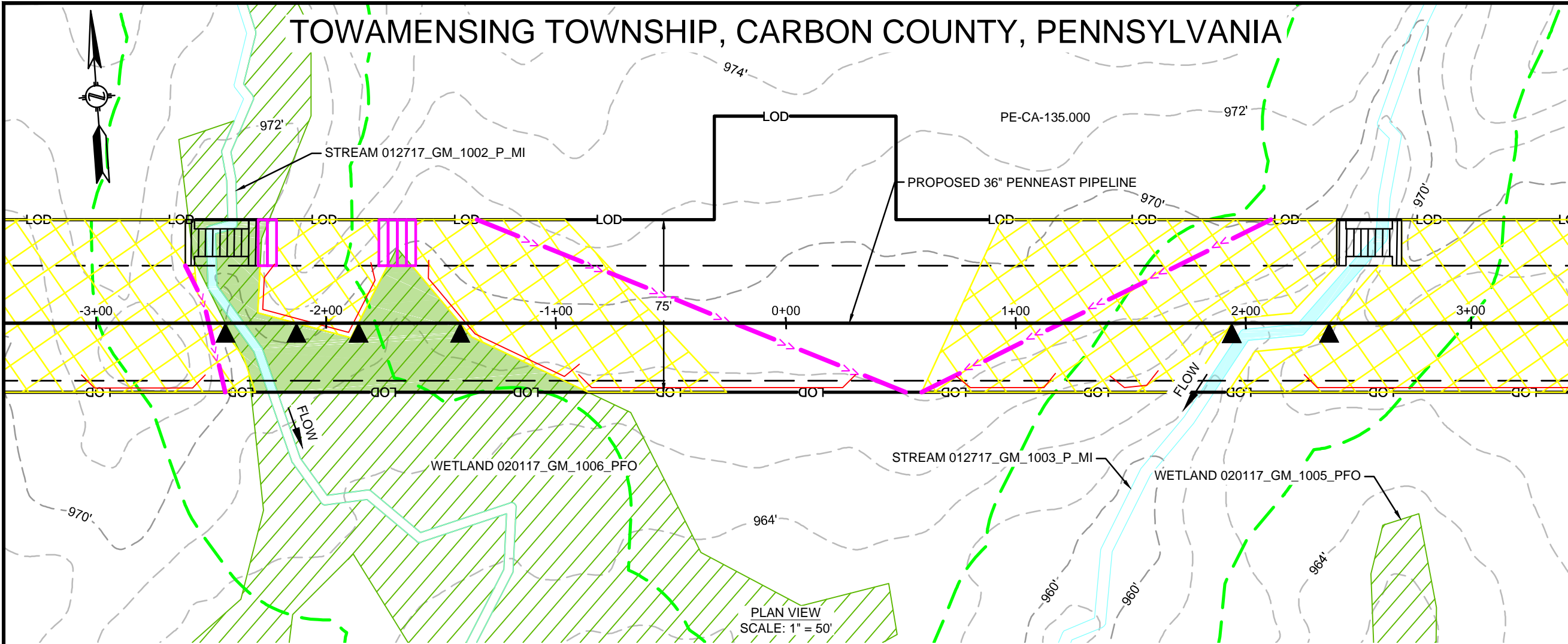
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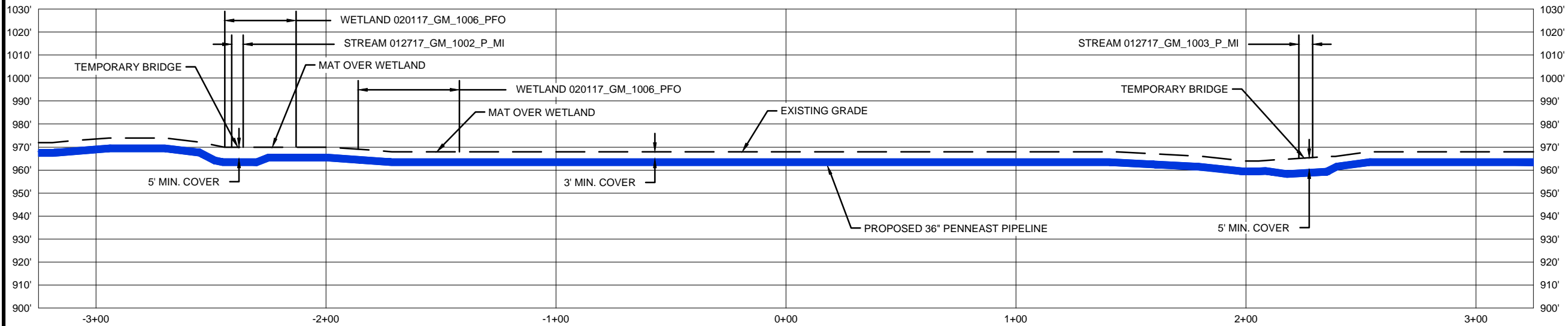
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 41.1		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-035	0

TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
020117_GM_1006_PFO	WETLAND	0.03	-	0.09	-	CL - OPEN CUT	-	-	MATTED
012717_GM_1002_P_MI	WATERBODY	-	0.00	-	0.13	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
012717_GM_1003_P_MI	WATERBODY	-	0.00	-	0.17	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

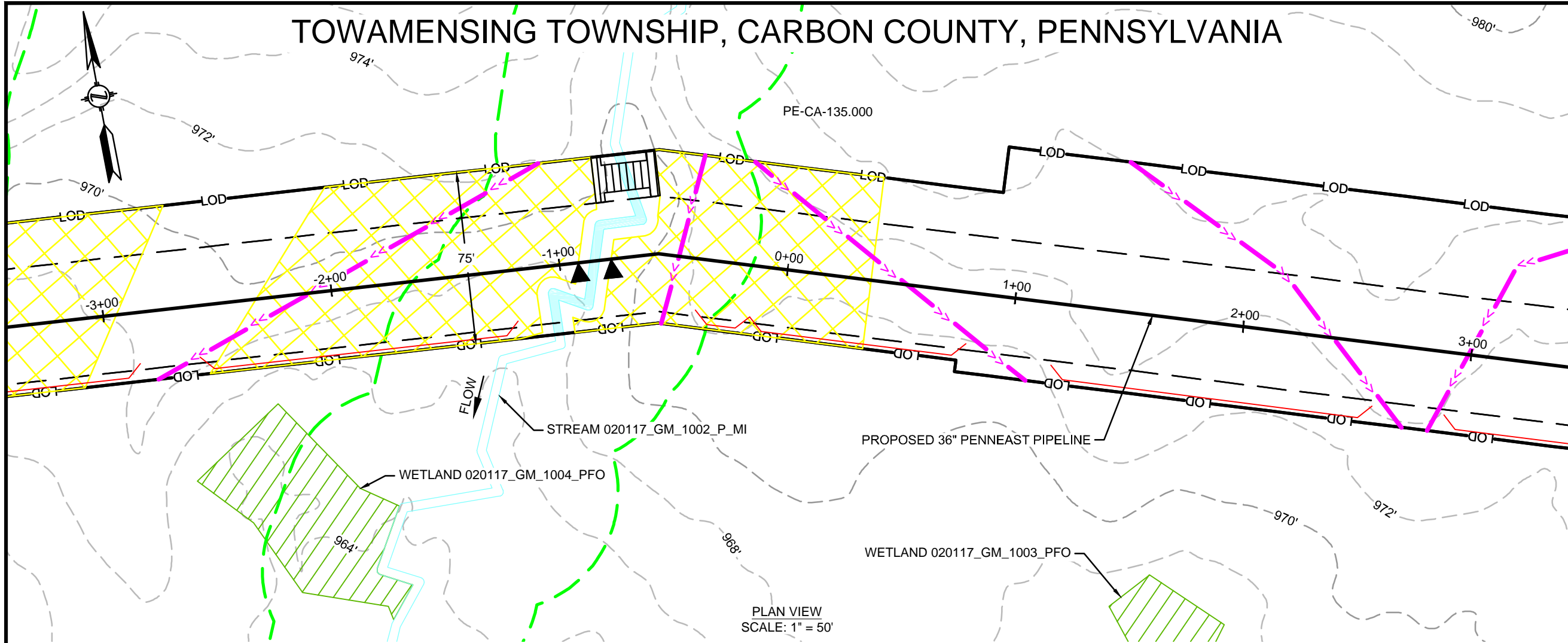


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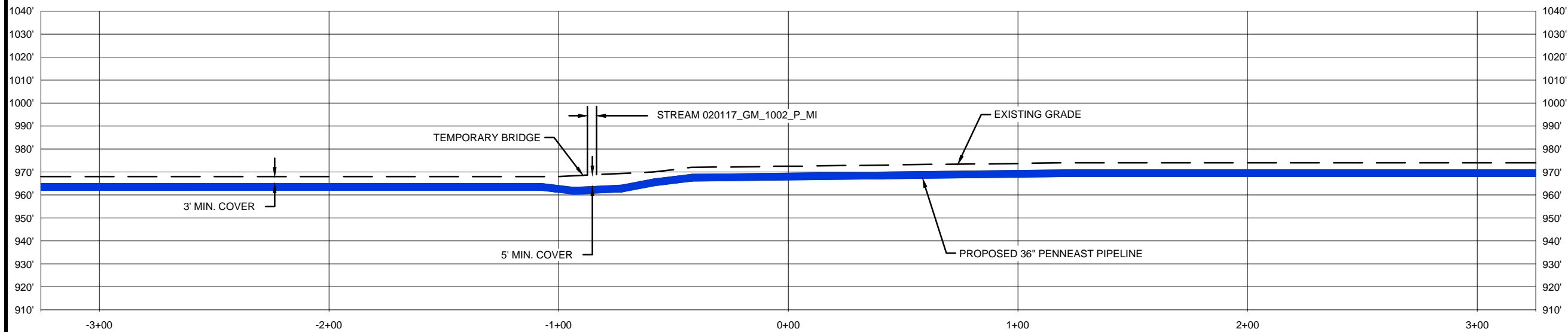
PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 41.2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-036	0

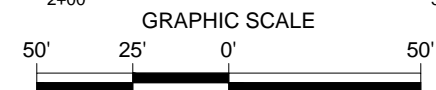
TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)			TEMPORARY DISTURBANCE (ACRES)			RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND		
MAT BRIDGE OR EQUIVALENT	DPX	FX	CD	0.01	0.16	-	0.00	0.07	-	WATERBODY	020117_GM_1002_P_MI

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REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

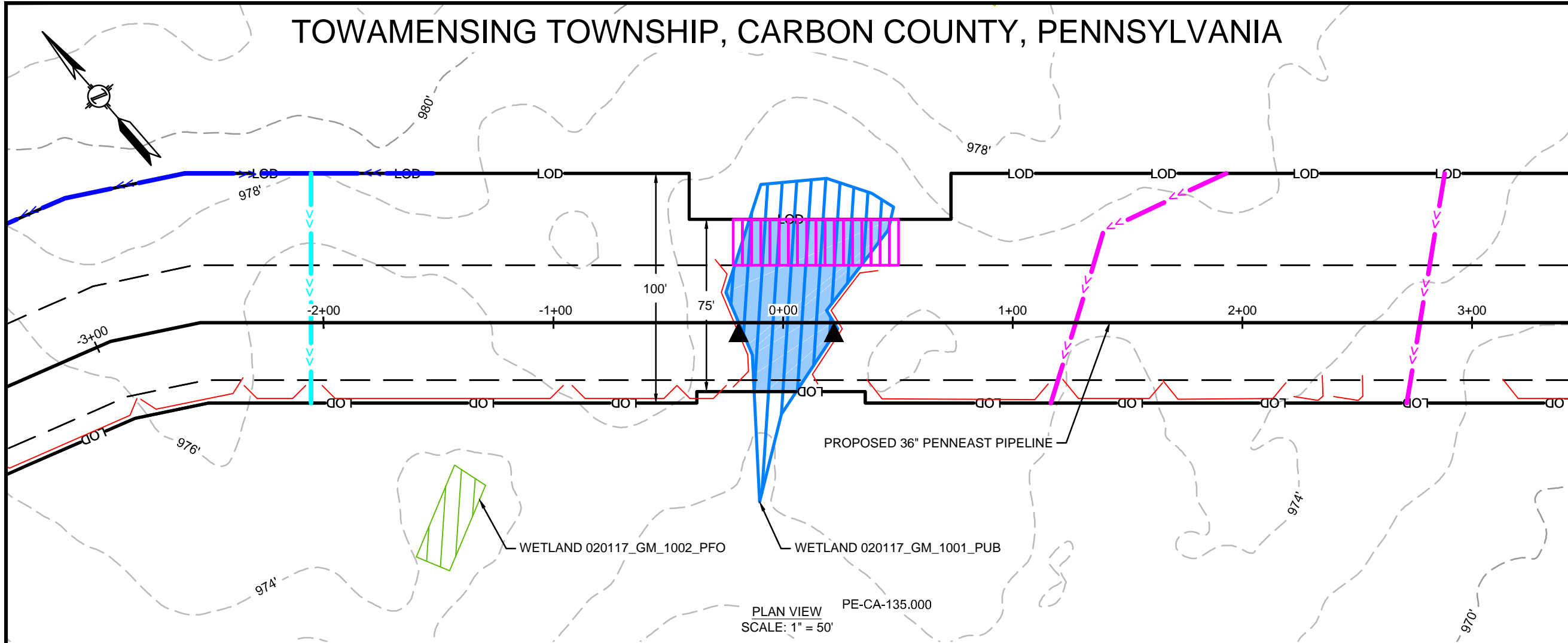
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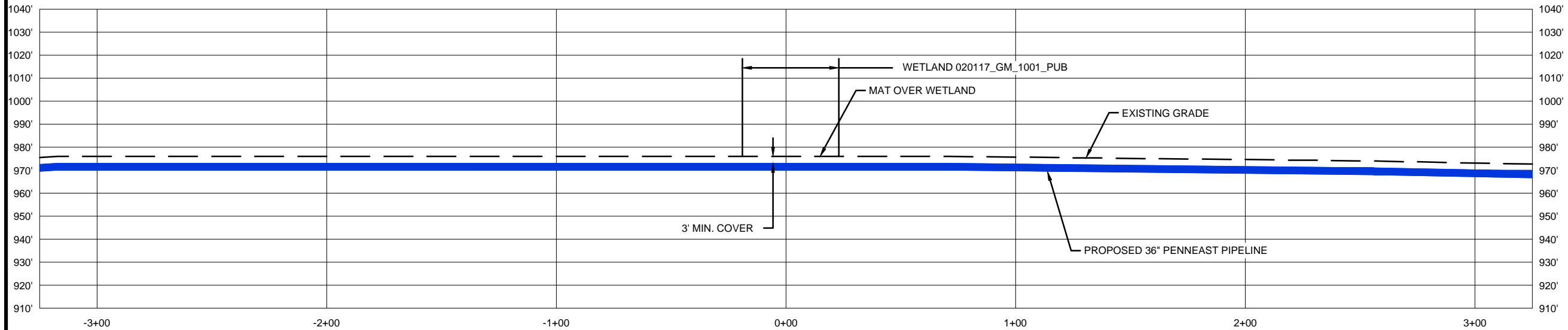
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WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 41.3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-037	0

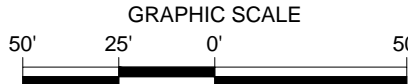
TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



EQUIPMENT CROSSING	MATTED		
CROSSING METHOD	TERTIARY		
	SECONDARY		
	PRIMARY	CL - OPEN CUT	
PERMANENT DISTURBANCE (ACRES)	WATERCOURSE FLOODWAY		
	WATERCOURSE CHANNEL		
	WETLAND	0.05	
	WATERCOURSE FLOODWAY		
TEMPORARY DISTURBANCE (ACRES)	WATERCOURSE CHANNEL		
	WETLAND	0.03	
	WATERCOURSE FLOODWAY		
	WATERCOURSE FLOODWAY		
RESOURCE TYPE	WETLAND		
FEATURE ID	020117_GM_1001_PUB		

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

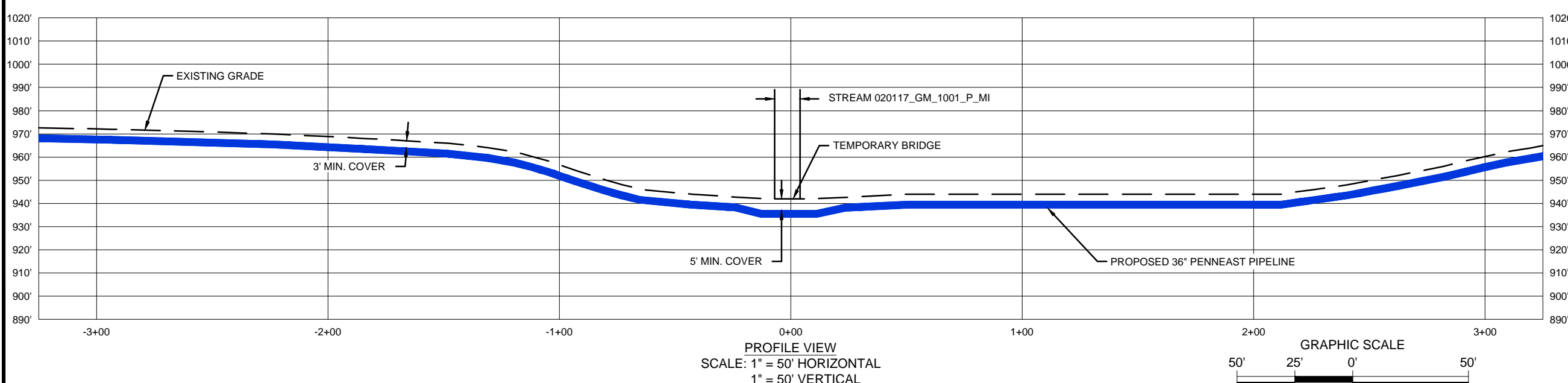
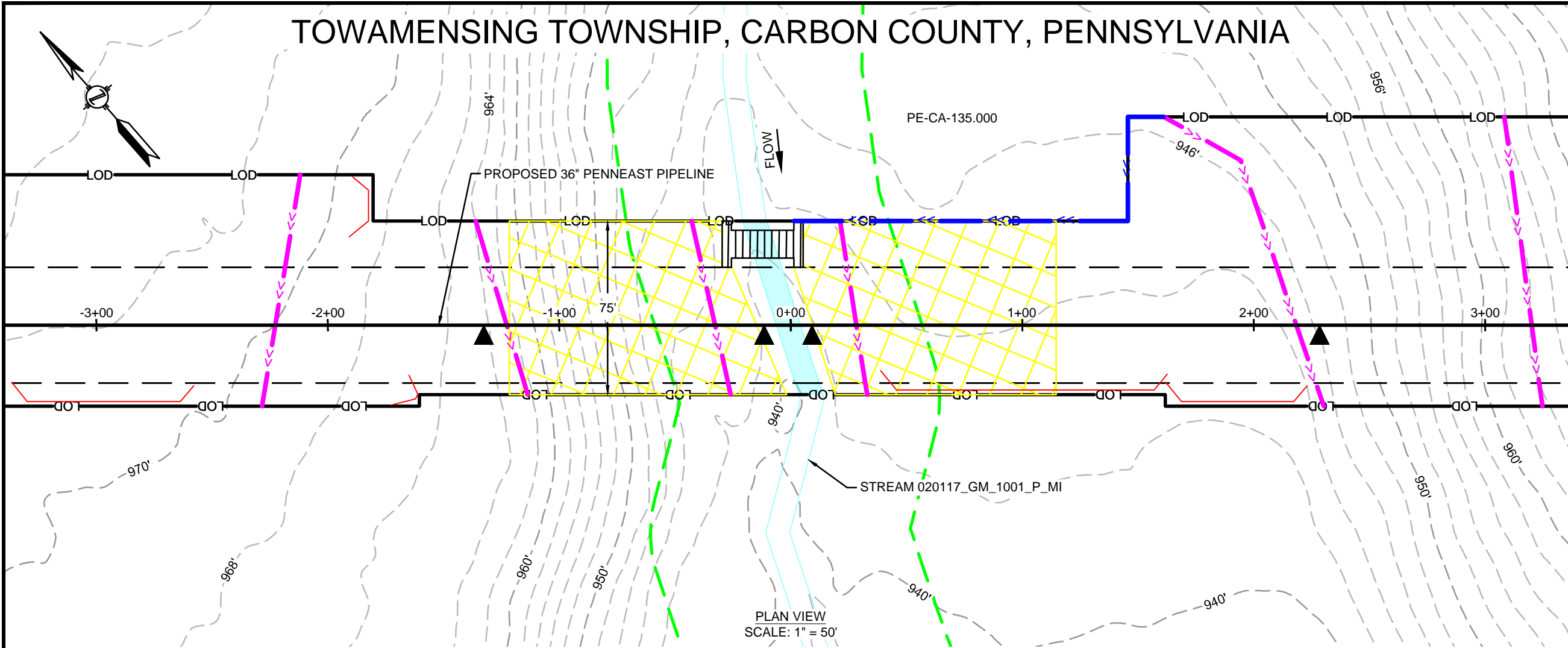
PREPARED FOR:

PREPARED BY:

SCALE: 1"=50'

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 41.5		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-038	0

TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)			TEMPORARY DISTURBANCE (ACRES)			RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND		
MAT BRIDGE OR EQUIVALENT	DPX	FX	CD	0.01	0.12	-	0.01	0.06	-	WATERBODY	020117_GM_1001_P_MI

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

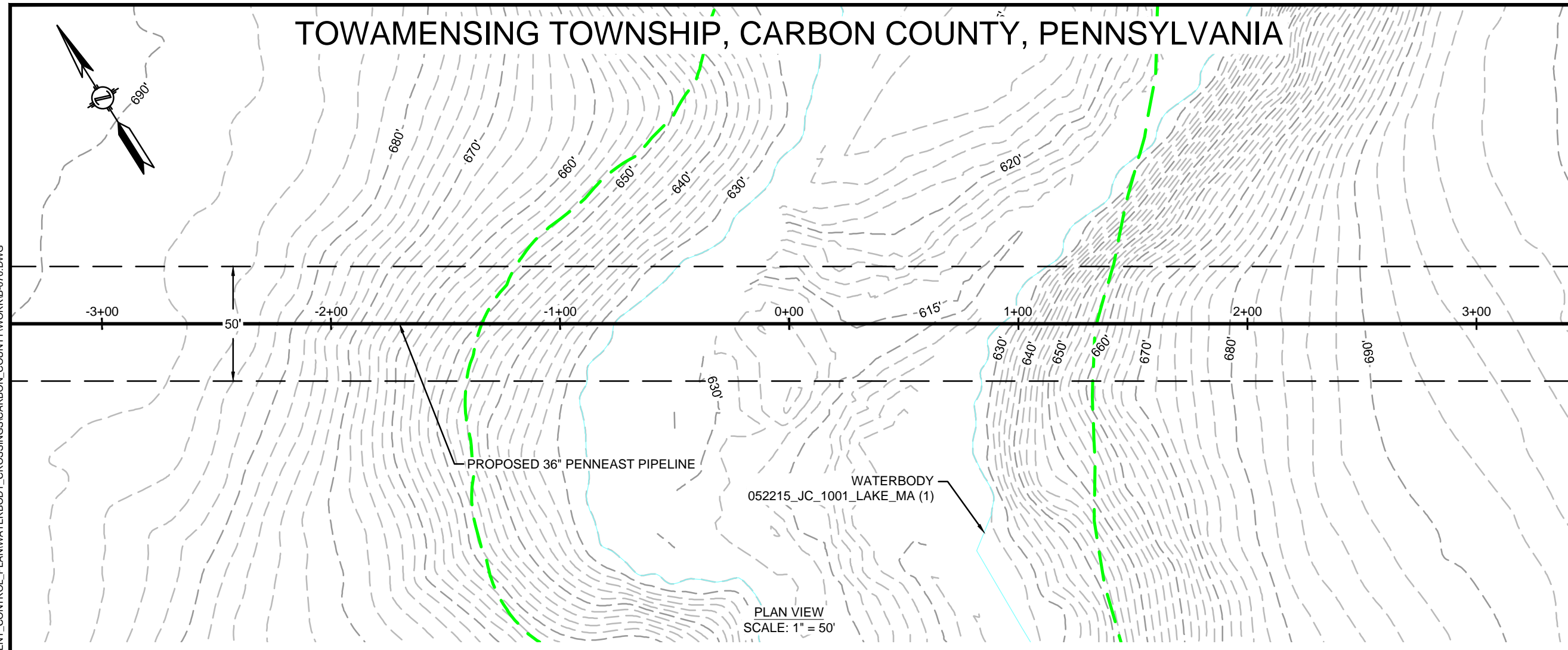
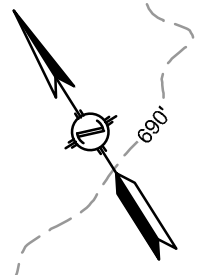
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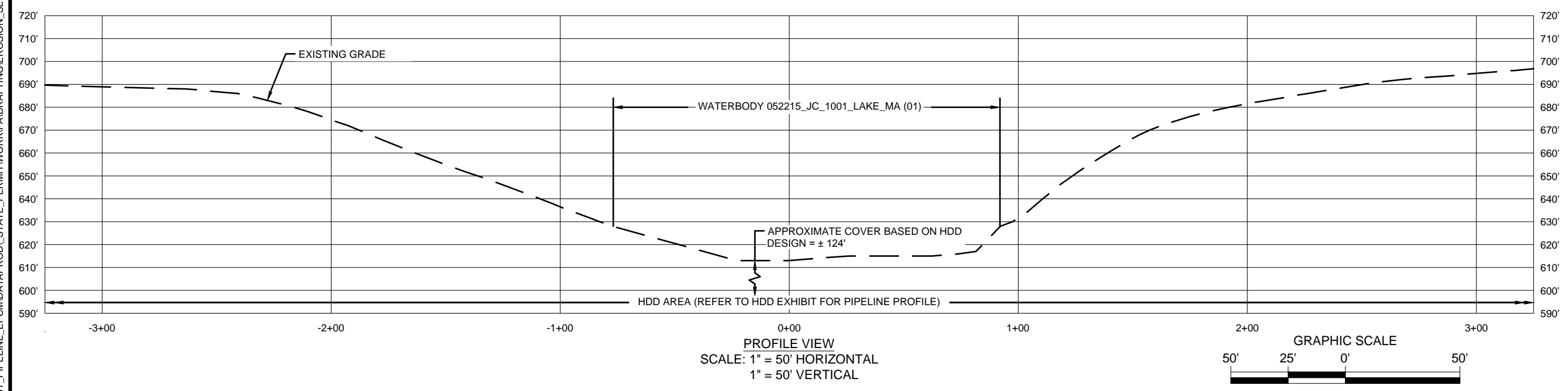
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 41.6		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-039	0

TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)	TEMPORARY DISTURBANCE (ACRES)	RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY				
	HDD	HDD	HDD	0.01	0.01	LACUSTRINE	052215_JC_1001_LAKE_MA (1)
				0.01			

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

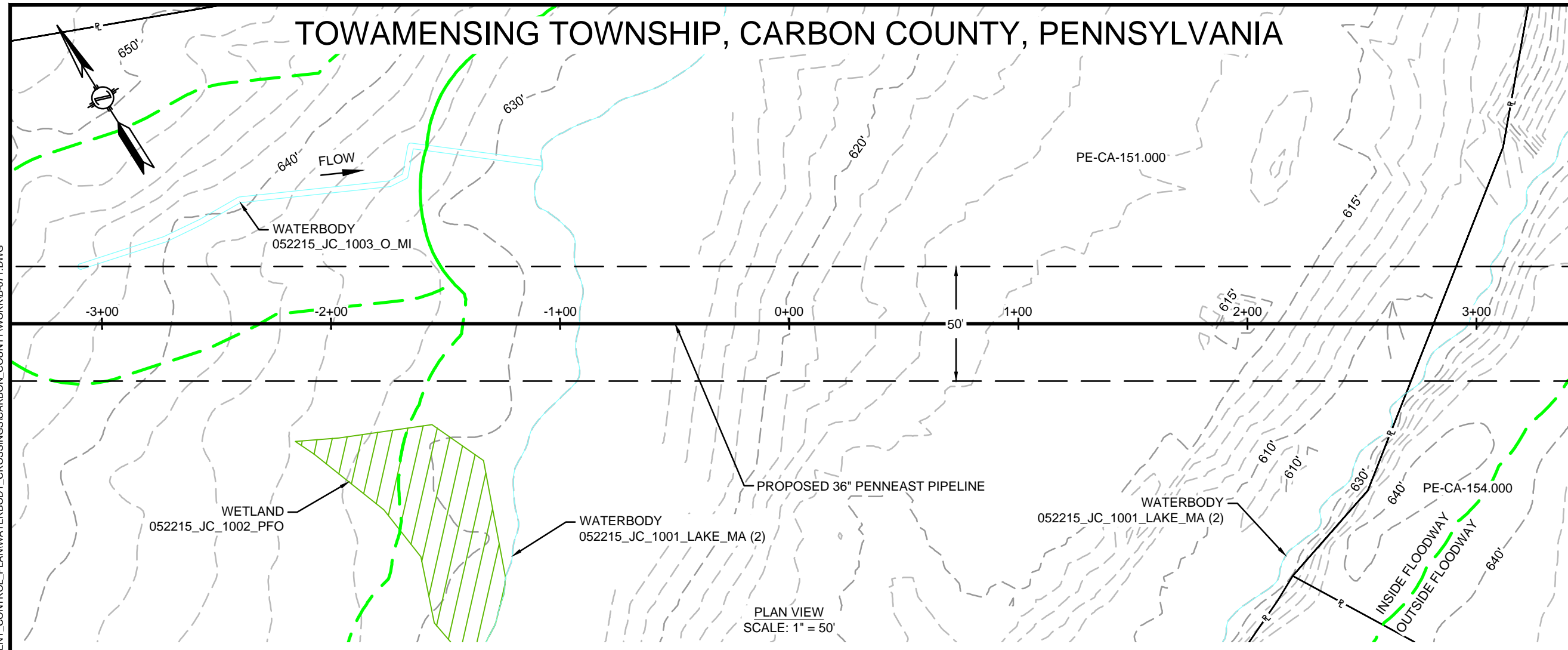
PREPARED FOR:

PREPARED BY:

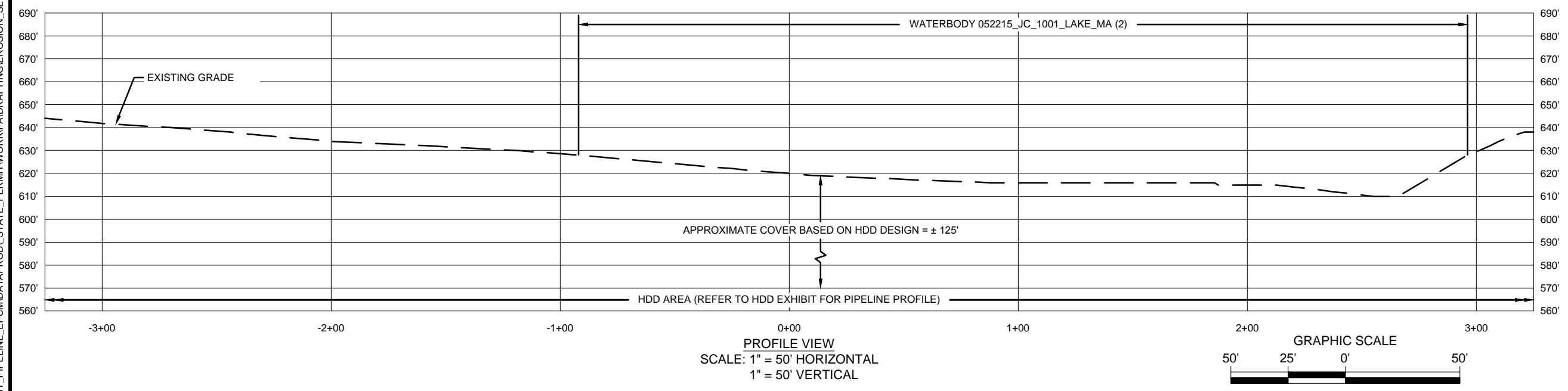
PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
M.P. 43.5R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-040	0

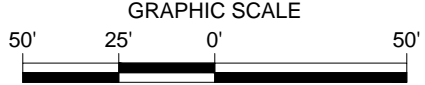
TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)	TEMPORARY DISTURBANCE (ACRES)	RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY				
	HDD	HDD	HDD	0.01	0.03	LACUSTRINE	052215_JC_1001_LAKE_MA (2)

12/7/2018 2:42 PM, MORALES, HECTOR
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

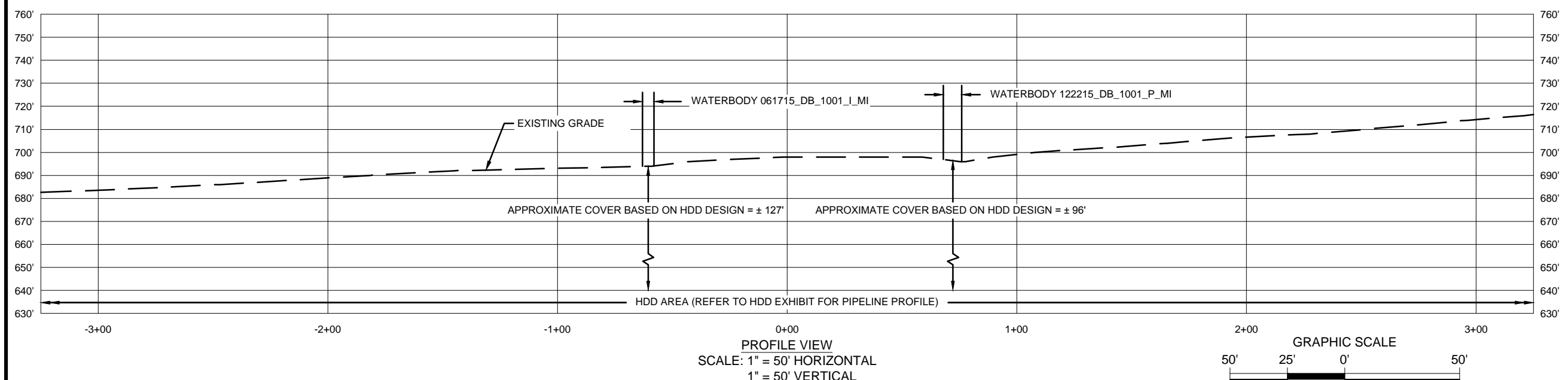
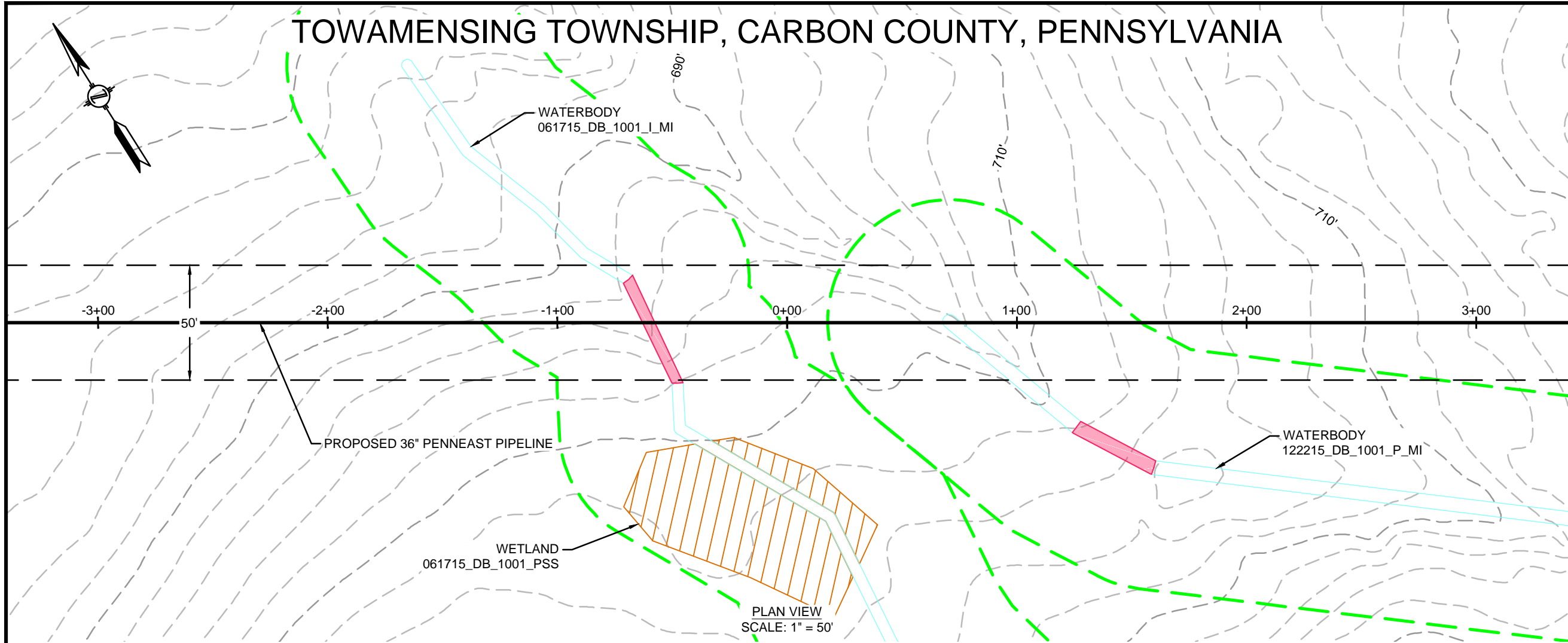
PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT
 WETLAND & STREAM CROSSING PLAN
 PROPOSED 36" PENNEAST PIPELINE
 TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 44.0R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-041	0

TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
061715_DB_1001_I_MI	WATERBODY	-	-	-	-	0.00	0.01	N/A	N/A	N/A	N/A
122215_DB_1001_P_MI	WATERBODY	-	-	-	-	0.00	0.01	HDD	HDD	HDD	N/A

11/15/2018 8:15 PM, MORALES, HECTOR G:\PENNEAST\353754_PENNEAST_PIPELINE_EPC\MDATA\PROD_STATE_PERMIT\WORK\PA\DRAWING\EROSION_SEDIMENT_CONTROL_PLAN\WATERBODY_CROSSINGS\CARBON_COUNTY\WORK\B-072.DWG

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

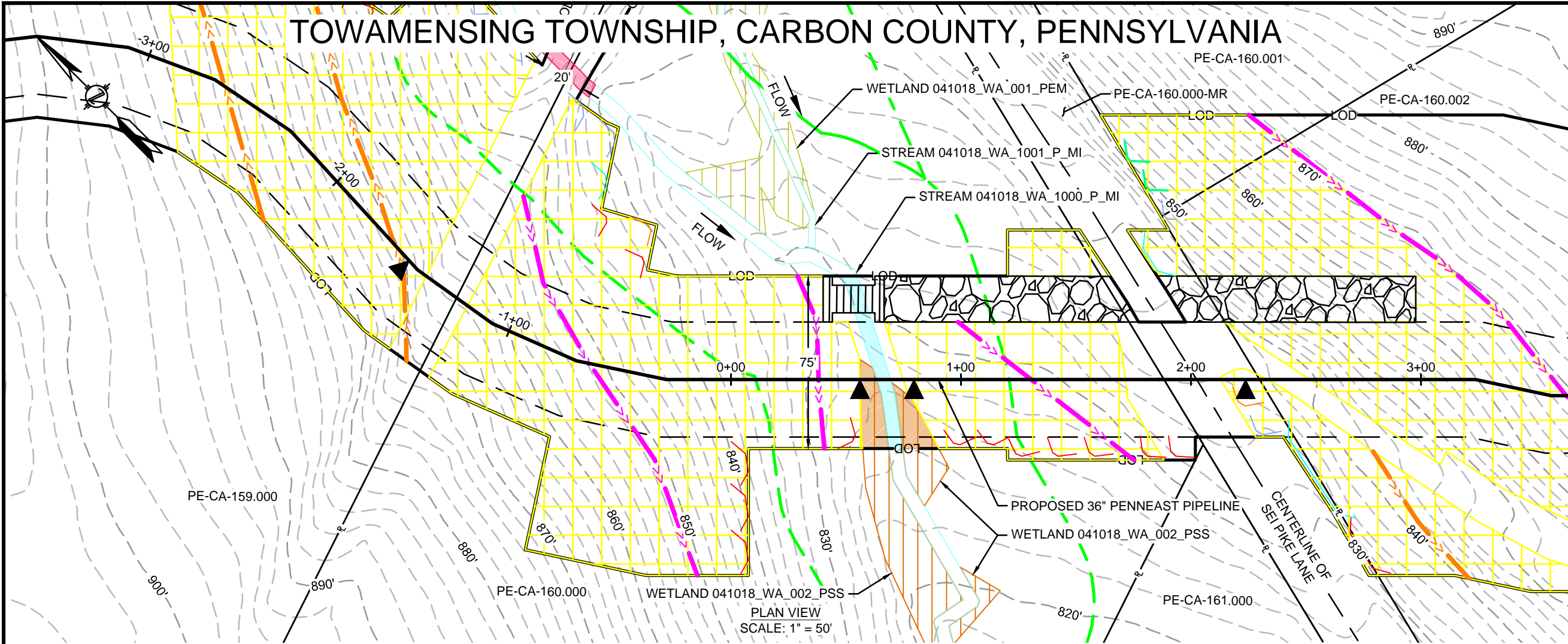
PREPARED FOR:

PREPARED BY:

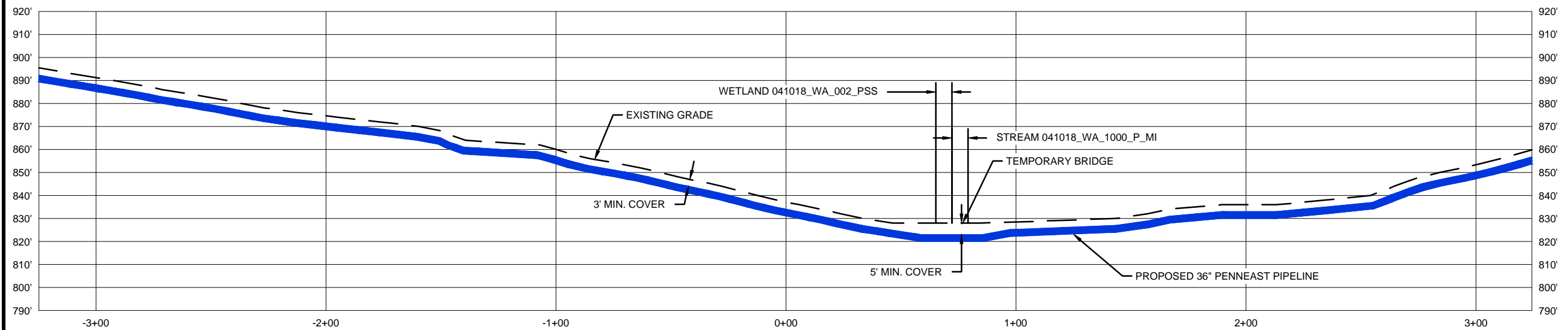
PENNEAST PIPELINE PROJECT
 WETLAND & STREAM CROSSING PLAN
 PROPOSED 36" PENNEAST PIPELINE
 TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 44.2R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-042	0

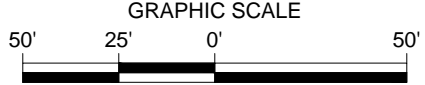
TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING		
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY		SECONDARY	TERTIARY
041018_WA_002_PSS	WETLAND	0.00	-	-	0.01	-	CL - OPEN CUT	-	-	-	MATTED
041018_WA_1000_P_MI	WATERBODY	-	0.00	0.01	-	0.13	DPX	FX	CD	-	MAT BRIDGE OR EQUIVALENT

11/15/2018 10:53 AM, MORALES, HECTOR
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

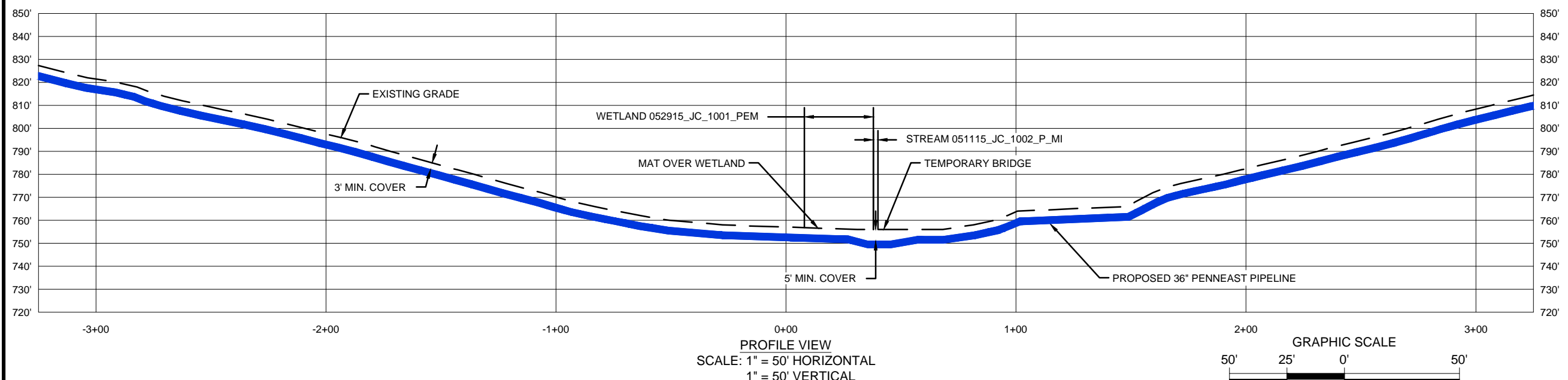
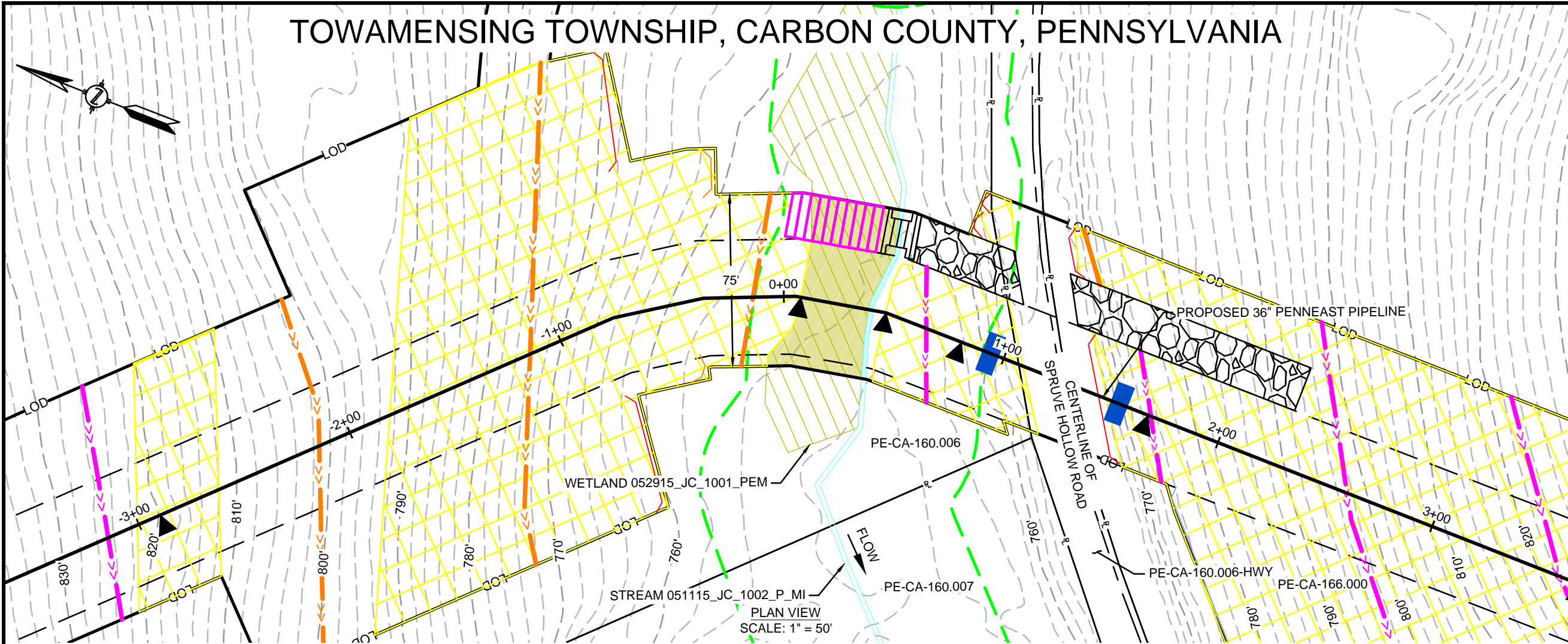
PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 44.8R2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-043	0

TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
052915_JC_1001_PEM	WETLAND	0.02	-	-	0.04	-	-	CL - OPEN CUT	-	-	MATTED
051115_JC_1002_P_MI	WATERBODY	-	0.00	0.07	-	0.00	0.12	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

11/15/2018 10:55 AM, MORALES, HECTOR
G:\PENNEAST\363754_PENNEAST_PIPELINE_EPC\DATA\PROD\STATE_PERMIT\WORK\PA\DRAWING\EROSION_SEDIMENT_CONTROL_PLAN\WATERBODY_CROSSINGS\CARBON_COUNTY\WORK\B-038.DWG

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

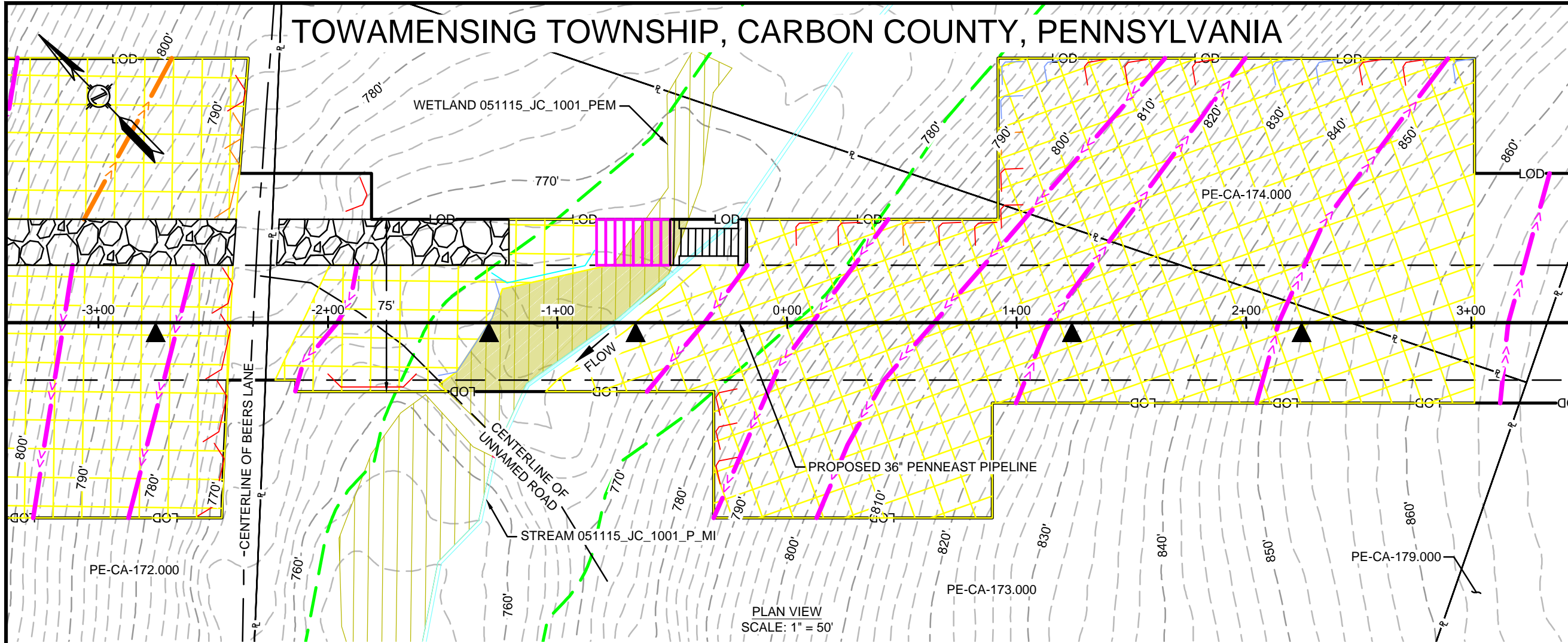
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

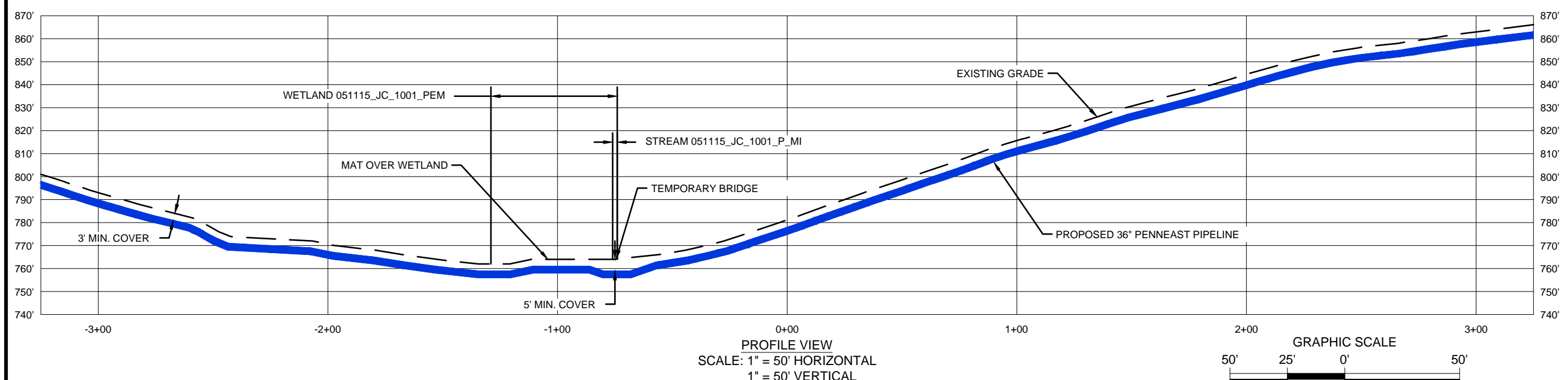
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 45R2		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-044	0

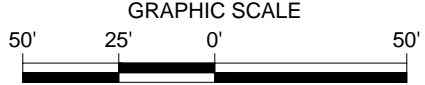
TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
051115_JC_1001_PEM	WETLAND	0.01	-	-	0.06	-	-	CL - OPEN CUT	-	-	MATTED
051115_JC_1001_P_MI	WATERBODY	-	0.00	0.08	-	0.00	0.18	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

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REVISIONS				APPROVALS		
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL	
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD	

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

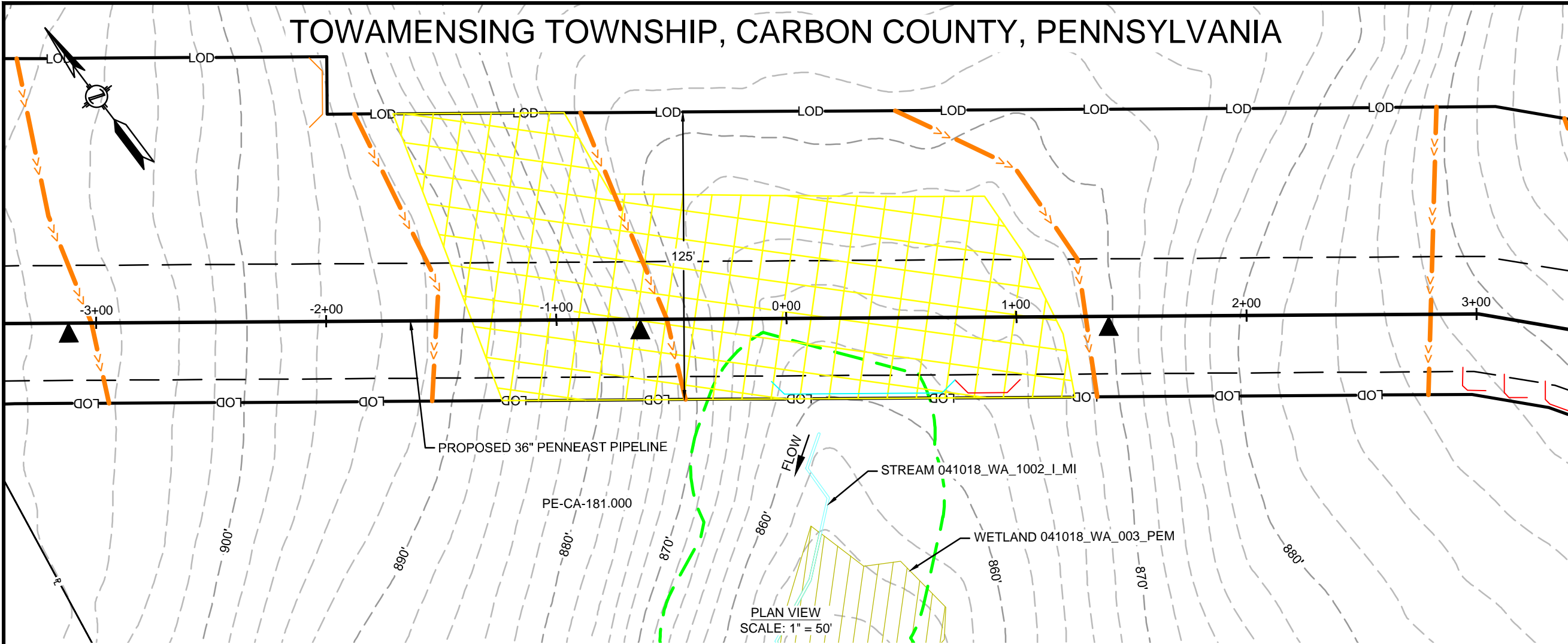
PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 45.6

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-045	0

TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING	N/A - WORKSPACE
		WETLAND	WATERCOURSE CHANNEL	FLOODWAY	WETLAND	WATERCOURSE CHANNEL	FLOODWAY	PRIMARY	SECONDARY	TERTIARY		
041018_WA_1002_I_MI	WATERBODY	-	-	0.04	-	-	0.02	N/A	N/A	N/A	N/A	N/A

11/15/2018 11:00 AM, MORALES, HECTOR
G:\PENNEAST\353754_PENNEAST_PIPELINE_EPC\MID\DATA\PROD\STATE_PERMIT\WORK\PAIDRAFTING\EROSION_SEDIMENT_CONTROL_PLAN\WATERBODY_CROSSINGS\CARBON_COUNTY\WORK\B-040.DWG

REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
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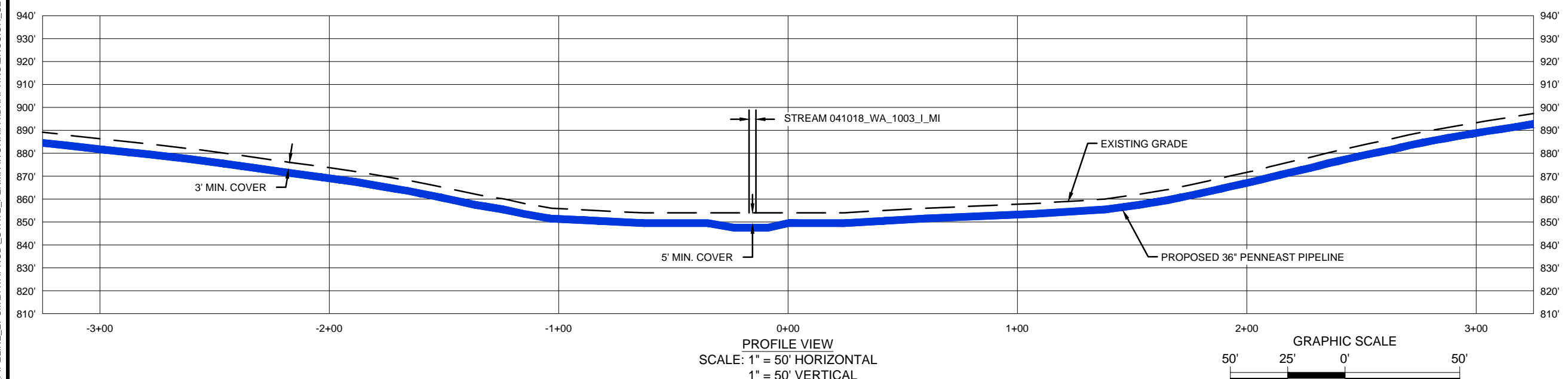
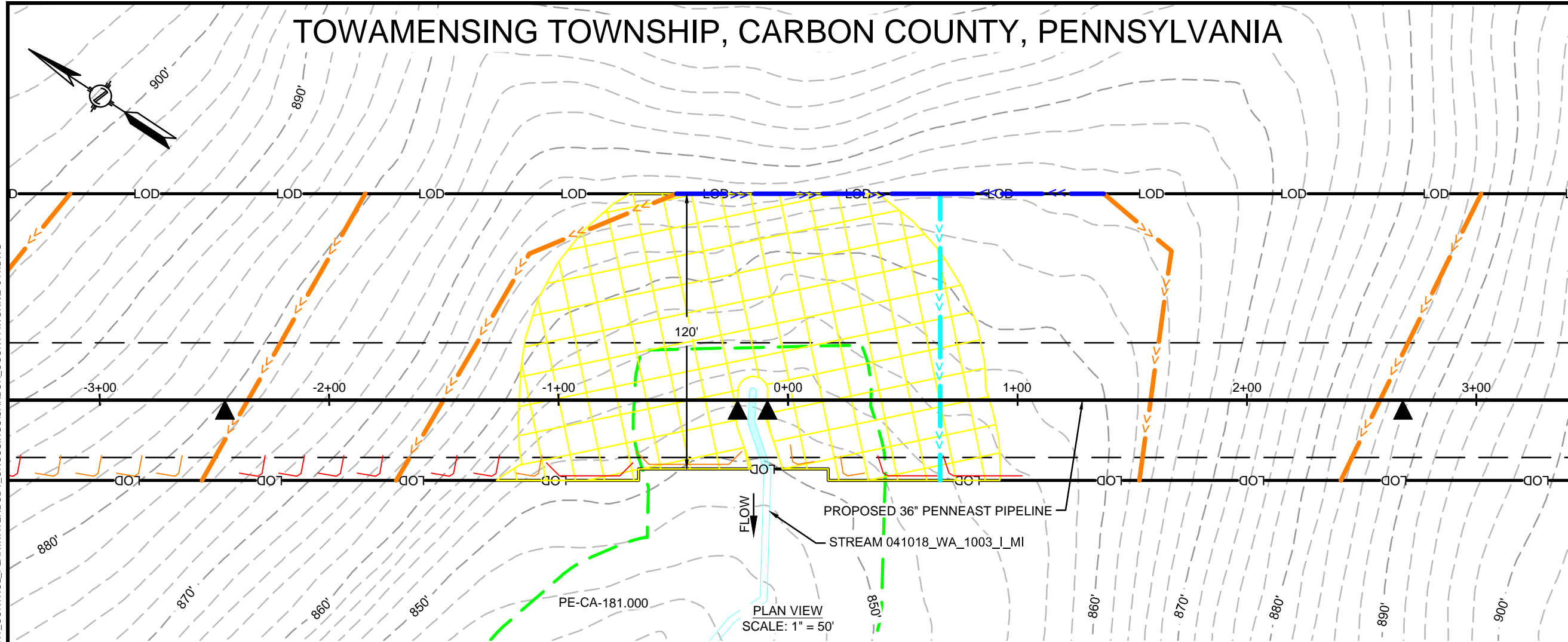
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 46.1		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-046	0

TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)	TEMPORARY DISTURBANCE (ACRES)	RESOURCE TYPE	FEATURE ID
	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND				
	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND				
	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND				
	DPX	FX	DX-NF	0.00	0.11	WATERBODY	041018_WA_1003_I_MI

11/15/2018 11:02 AM, MORALES, HECTOR
G:\PENNEAST\353754_PENNEAST_PIPELINE_EPC\MDATA\PROD_STATE_PERMIT\WORK\PAIDRAFTING\EROSION_SEDIMENT_CONTROL_PLAN\WATERBODY_CROSSINGS\CARBON_COUNTY\WORK\B-041.DWG

REVISIONS					
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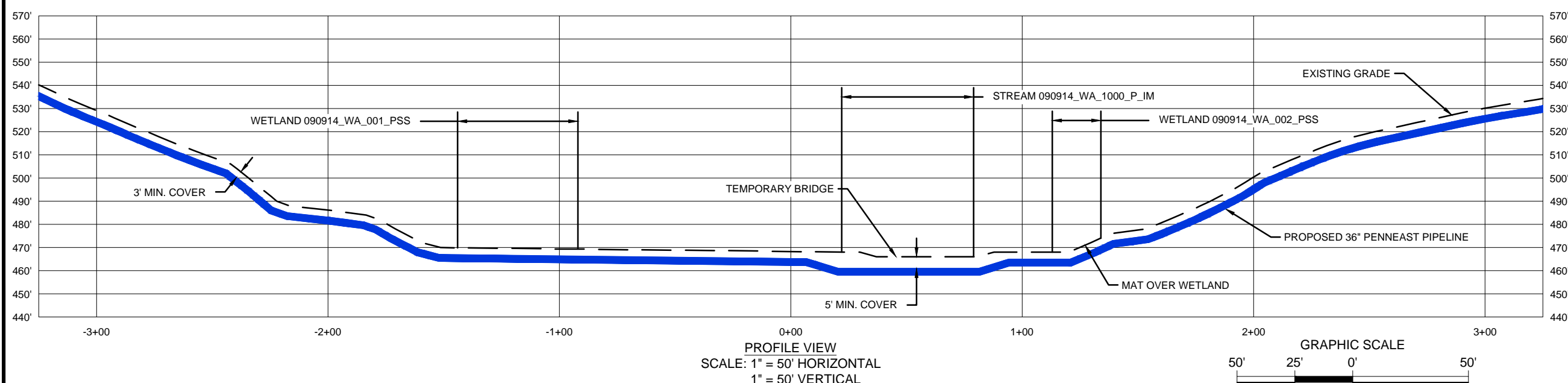
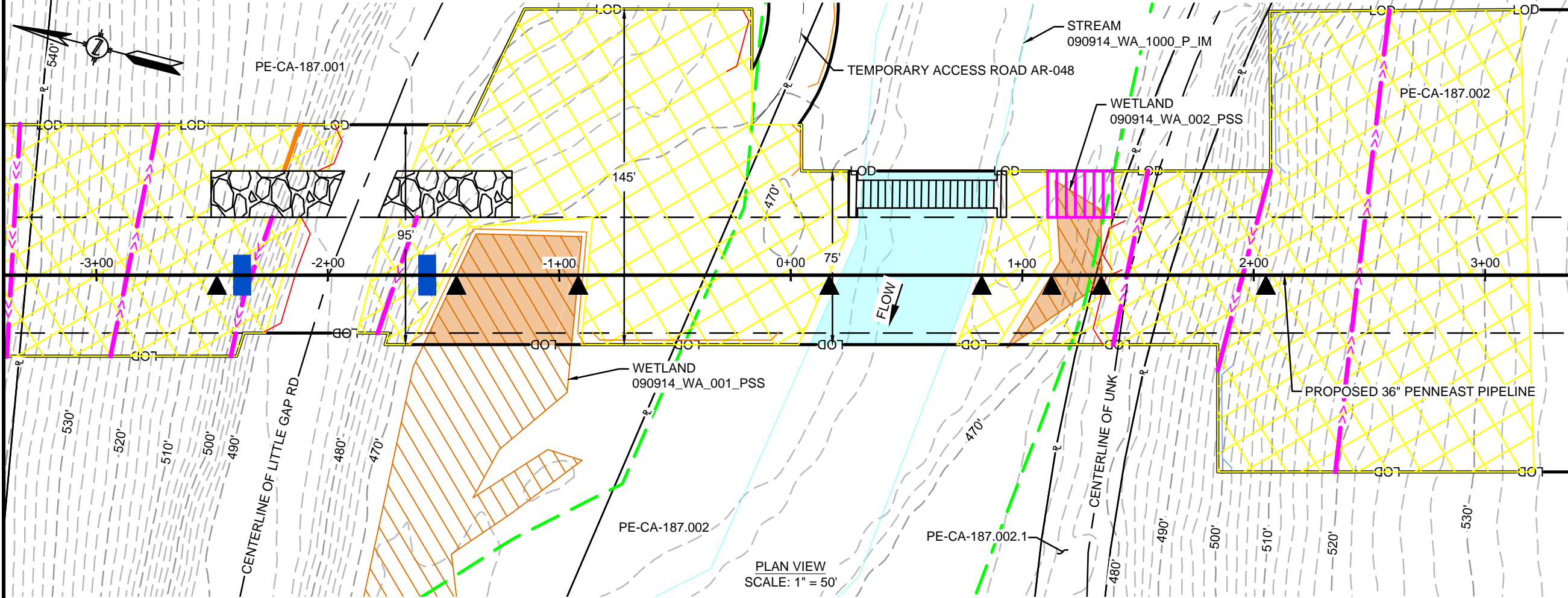
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 46.3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-047	0

LOWER TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
090914_WA_001_PSS	WETLAND	0.01	-	0.05	-	CL - OPEN CUT	-	-	MATTED
090914_WA_002_PSS	WETLAND	0.00	-	0.02	-	CL - OPEN CUT	-	-	MATTED
090914_WA_1000_P_IM	WATERBODY	-	0.03	-	0.12	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

11/15/2018 11:05 AM, MORALES, HECTOR
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

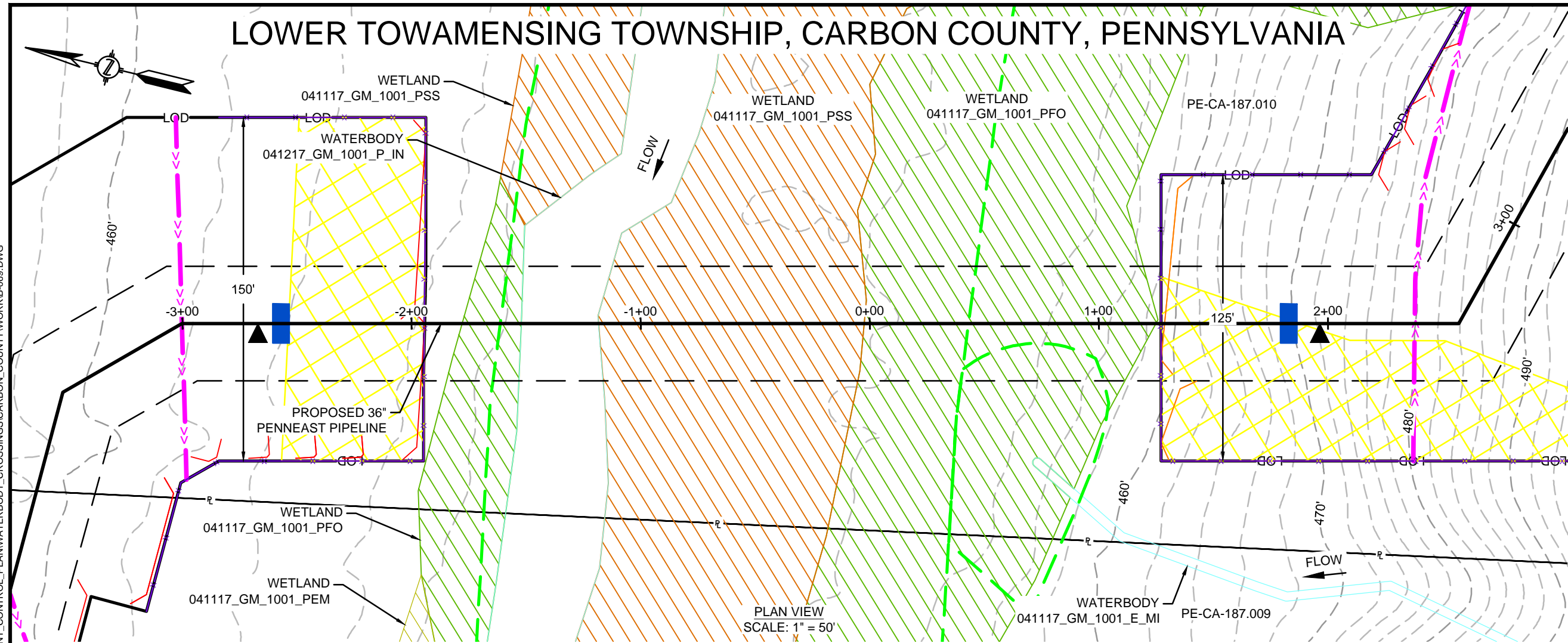
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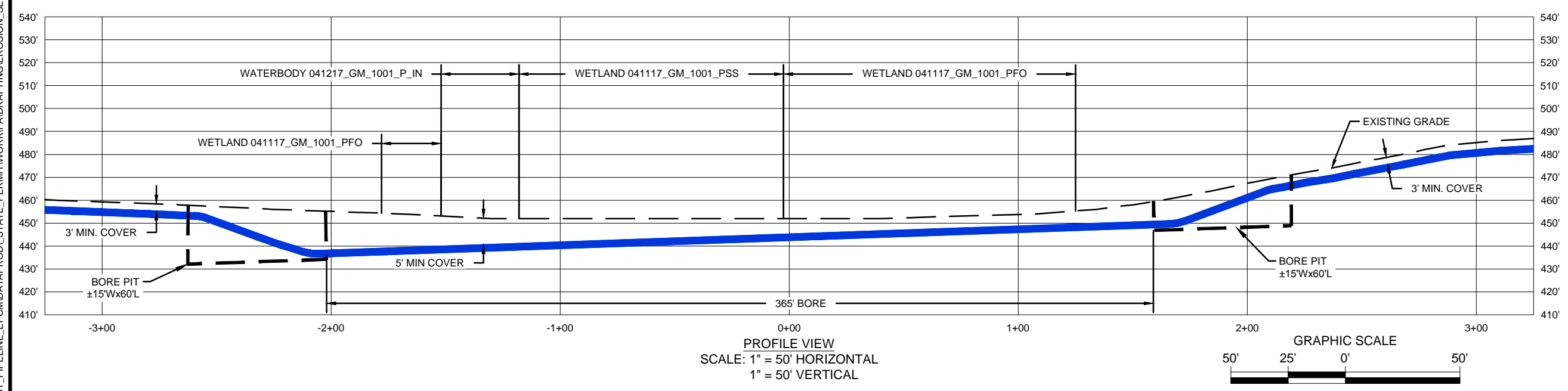
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE LOWER TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 48.1		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-048	0

LOWER TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
041117_GM_1001_PFO	WETLAND	-	-	-	0.01	-	-	CL - BORE	-	-	-
041217_GM_1001_P_IN	WATERBODY	-	-	-	-	-	0.01	BX	BX	BX	N/A
041117_GM_1001_PSS	WETLAND	-	-	-	0.01	-	-	CL - BORE	-	-	-

11/15/2018 11:00 PM, MORALES, HECTOR
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

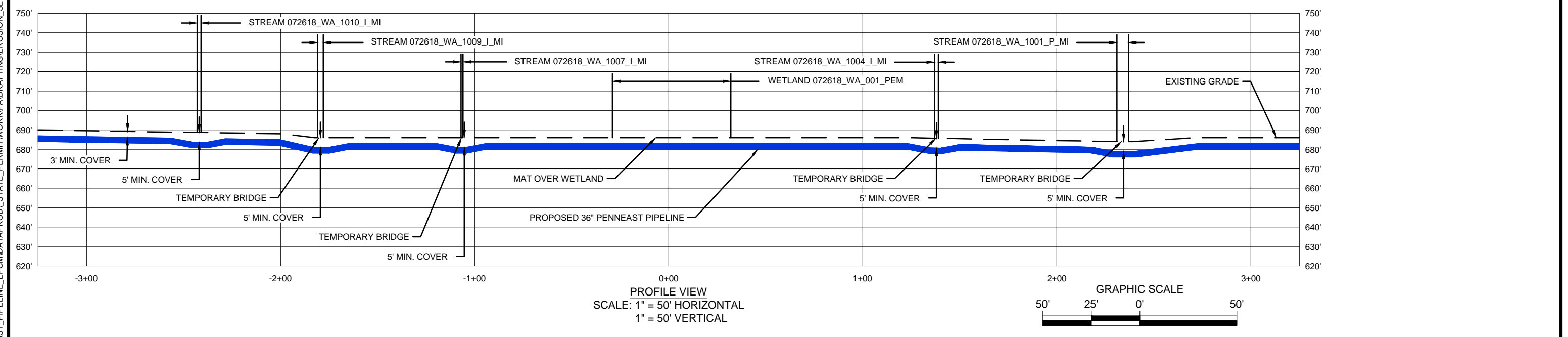
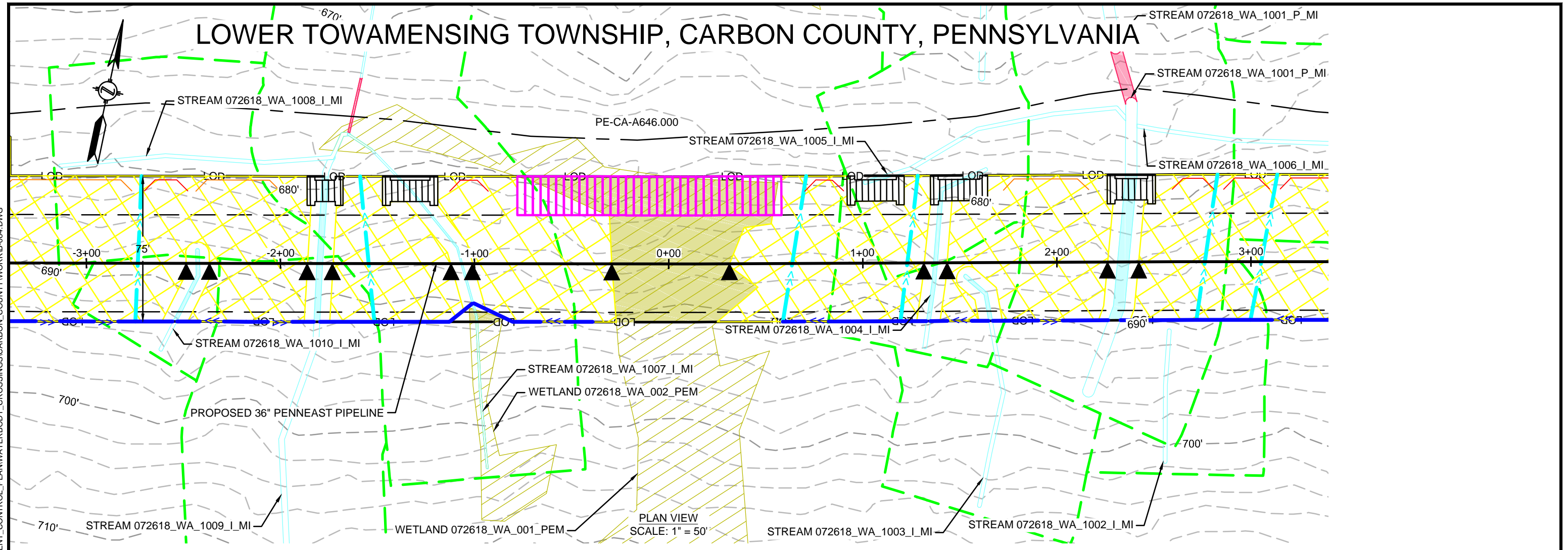
PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT
WETLAND & STREAM CROSSING PLAN
PROPOSED 36" PENNEAST PIPELINE
 LOWER TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA
 M.P. 49.3R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-049	0

LOWER TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



12/7/2018 3:08 PM, MORALES, HECTOR
G:\PENNEAST\353754_PENNEAST_PIPELINE_EPCMDATA\PROD_STATE_PERMIT\WORK\PAIDRAFTING\EROSION_SEDIMENT_CONTROL_PLAN\WATERBODY_CROSSINGS\CARBON_COUNTY\WORK\KB-064.DWG

REVISIONS			NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD			

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:



PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE LOWER TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 50.6R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-050A	0

12/7/2018 3:09 PM, MORALES, HECTOR
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FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
072618_WA_1008_I_MI	WATERBODY	-	-	0.12	-	-	0.07	N/A	N/A	N/A	N/A - WORKSPACE
072618_WA_001_PEM	WETLAND	0.05	-	-	0.08	-	-	CL - OPEN CUT	-	-	MATTED
072618_WA_002_PEM	WETLAND	0.00	-	-	0.00	-	-	N/A - WORKSPACE	-	-	MATTED
072618_WA_1004_I_MI	WATERBODY	-	0.00	0.01	-	0.00	0.07	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
072618_WA_1010_I_MI	WATERBODY	-	0.00	0.01	-	0.00	0.04	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
072618_WA_1005_I_MI	WATERBODY	-	0.00	0.04	-	-	0.04	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT
072618_WA_1003_I_MI	WATERBODY	-	0.00	-	-	0.00	-	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT
072618_WA_1009_I_MI	WATERBODY	-	0.00	0.01	-	0.00	0.04	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
072618_WA_1001_P_MI	WATERBODY	-	0.00	0.06	-	0.01	0.12	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
072618_WA_1007_I_MI	WATERBODY	-	0.00	0.07	-	0.00	0.13	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
072618_WA_1002_I_MI	WATERBODY	-	-	0.01	-	-	0.01	N/A	N/A	N/A	N/A - WORKSPACE
072618_WA_1006_I_MI	WATERBODY	-	-	0.04	-	-	0.02	N/A	N/A	N/A	N/A - WORKSPACE

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

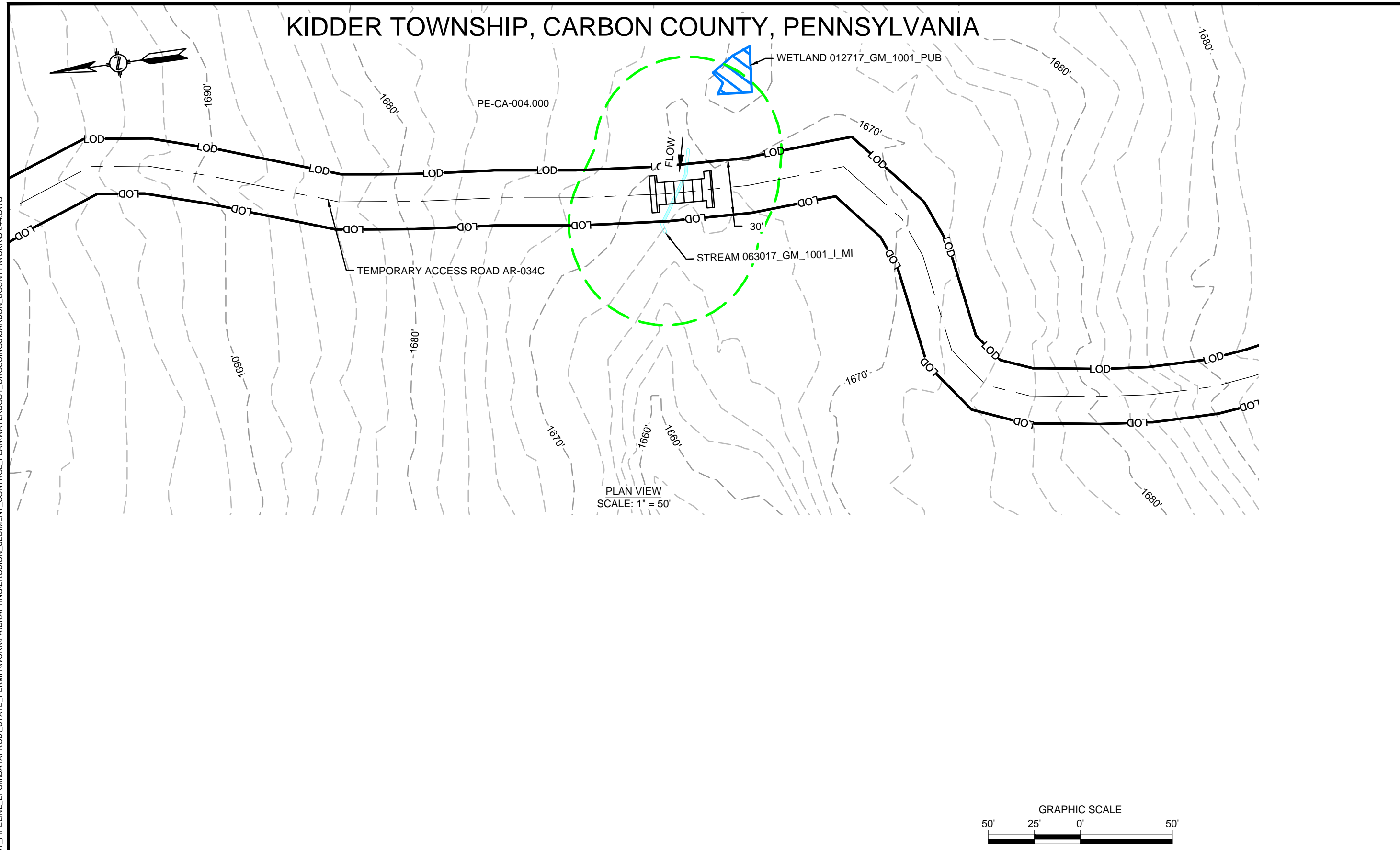
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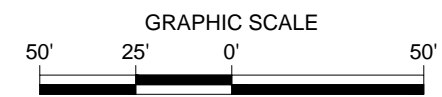
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE LOWER TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 50.6R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-ML-050B	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)				PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING	MAT BRIDGE OR EQUIVALENT
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY		
063017_GM_1001_I_MI	WATERBODY	-	0.00	0.08	-	-	-	N/A	N/A	N/A			

11/15/2018 7:43 PM, BARBOSA, ELIEZER
G:\PENNEAST\353754_PENNEAST_PIPELINE_EPC\MIDATA\PROD\STATE_PERMIT\WORK\PAIDRAFTING\EROSION_SEDIMENT_CONTROL_PLAN\WATERBODY_CROSSINGS\CARBON_COUNTY\WORK\B-044.DWG

REVISIONS					
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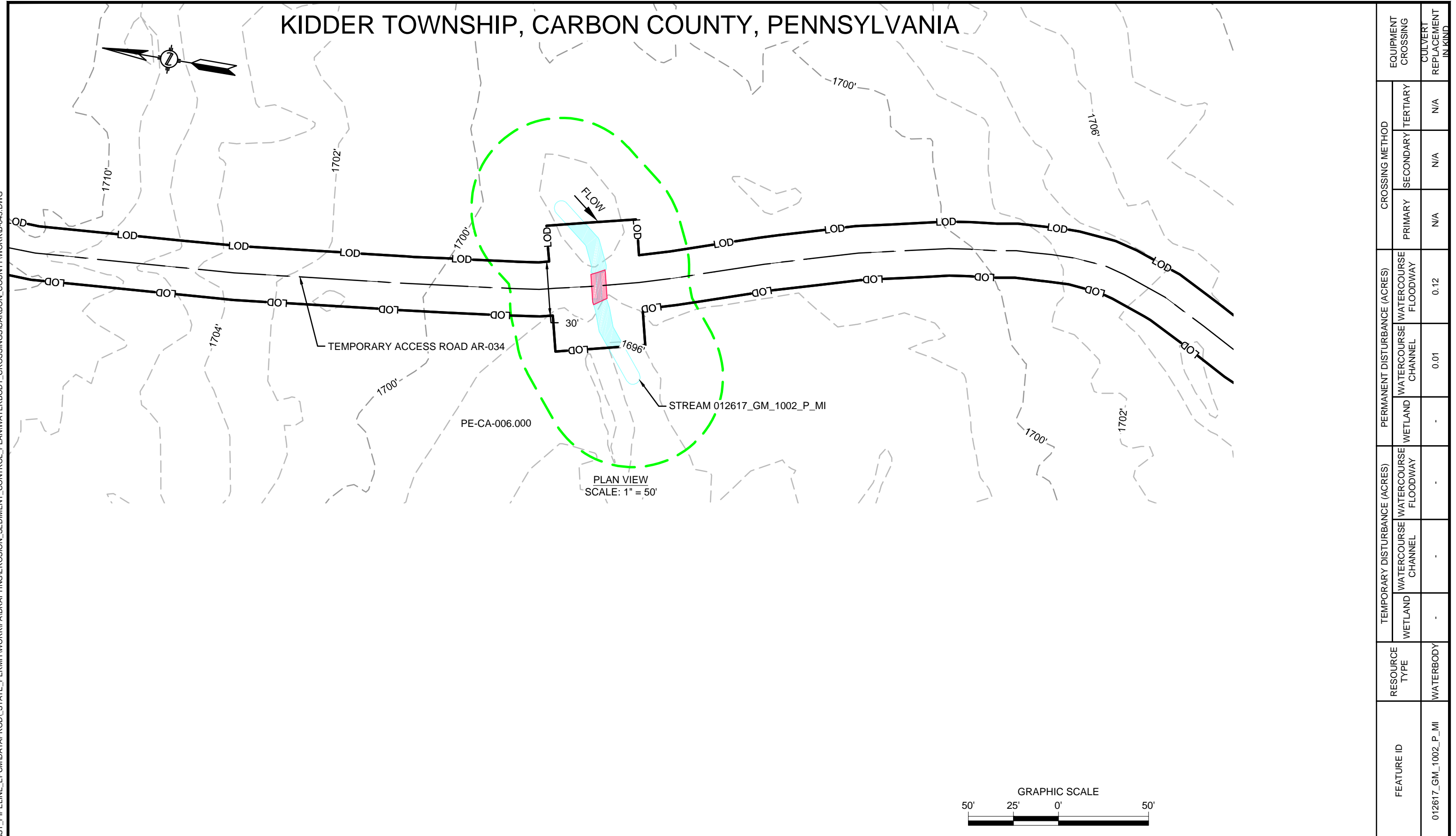
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
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ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

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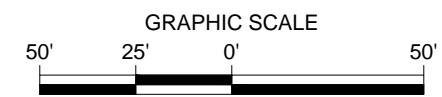
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 24.4		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-AR-001	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING	CULVERT REPLACEMENT IN KIND
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY		
012617_GM_1002_P_MI	WATERBODY	-	-	-	-	0.01	0.12	N/A	N/A	N/A		



12/17/2018 2:17 PM, MORALES, HECTOR G:\PENNEAST\353754_PENNEAST_PIPELINE_EPC\MDATA\PROD_STATE_PERMIT\WORK\PA\DRAWING\EROSION_SEDIMENT_CONTROL_PLAN\WATERBODY_CROSSINGS\CARBON_COUNTY\WORK\B-045.DWG

REVISIONS					
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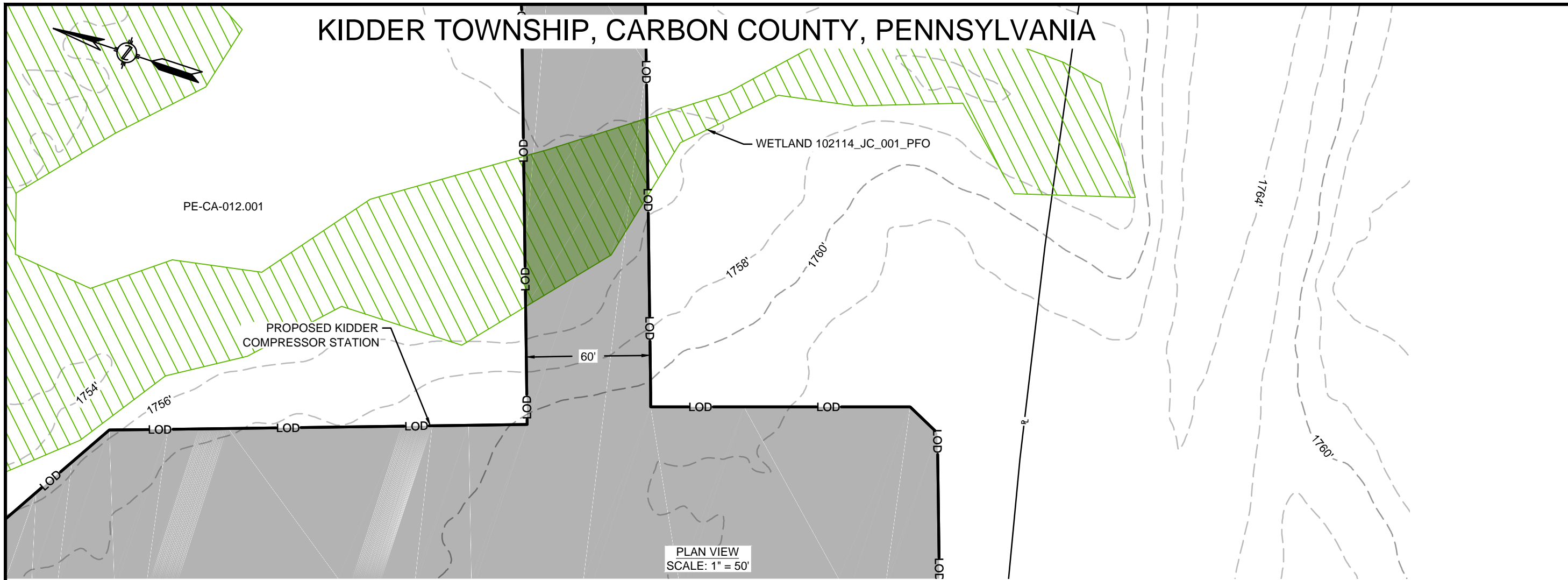
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CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

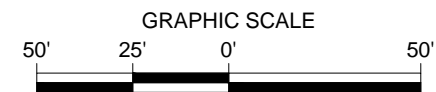
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 25.1		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-AR-002	0

KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
102114_JC_001_PFO	WETLAND	-	-	-	0.08	-	-	CL - OPEN CUT	-	-	MATTED

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

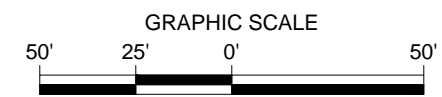
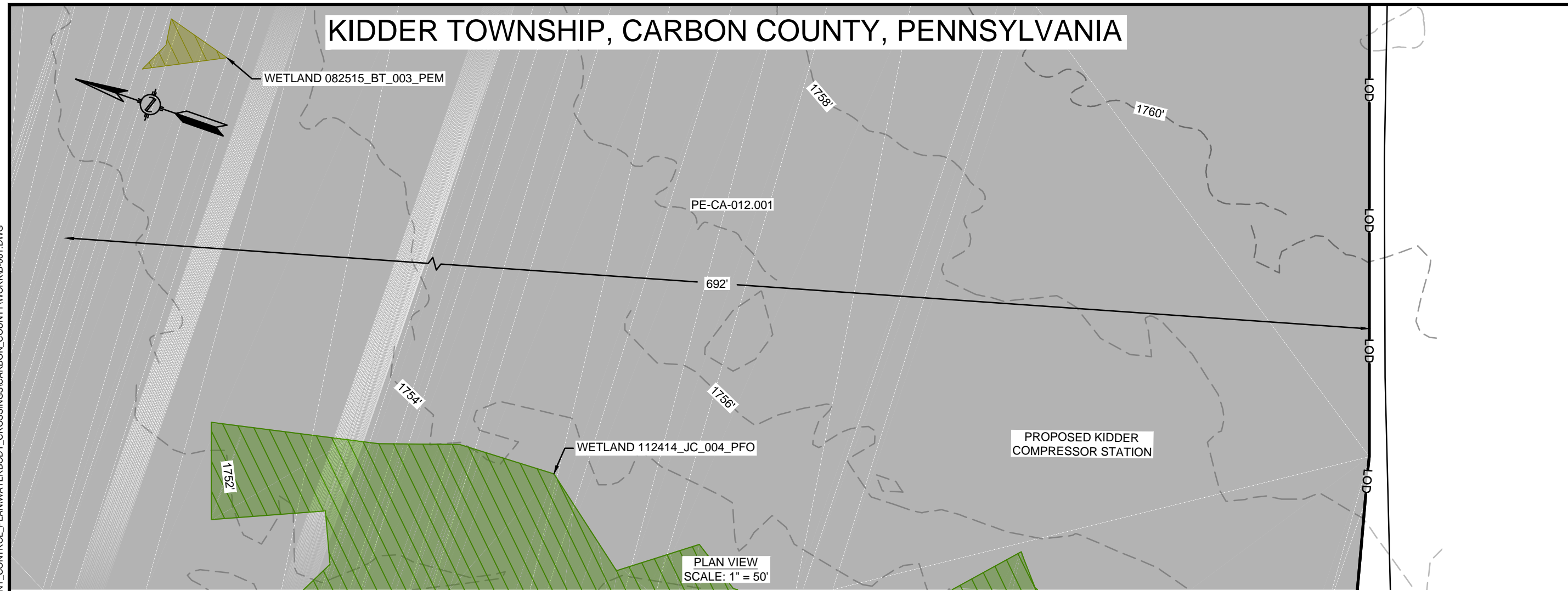
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 26.8R2		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-FAC-001	0

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11/15/2018 10:33 PM, MORALES, HECTOR
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KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
082515_BT_003_PEM	WETLAND	-	-	-	0.01	-	-	N/A	-	-	N/A
112414_JC_004_PFO - 2	WETLAND	-	-	-	0.98	-	-	N/A	-	-	N/A

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

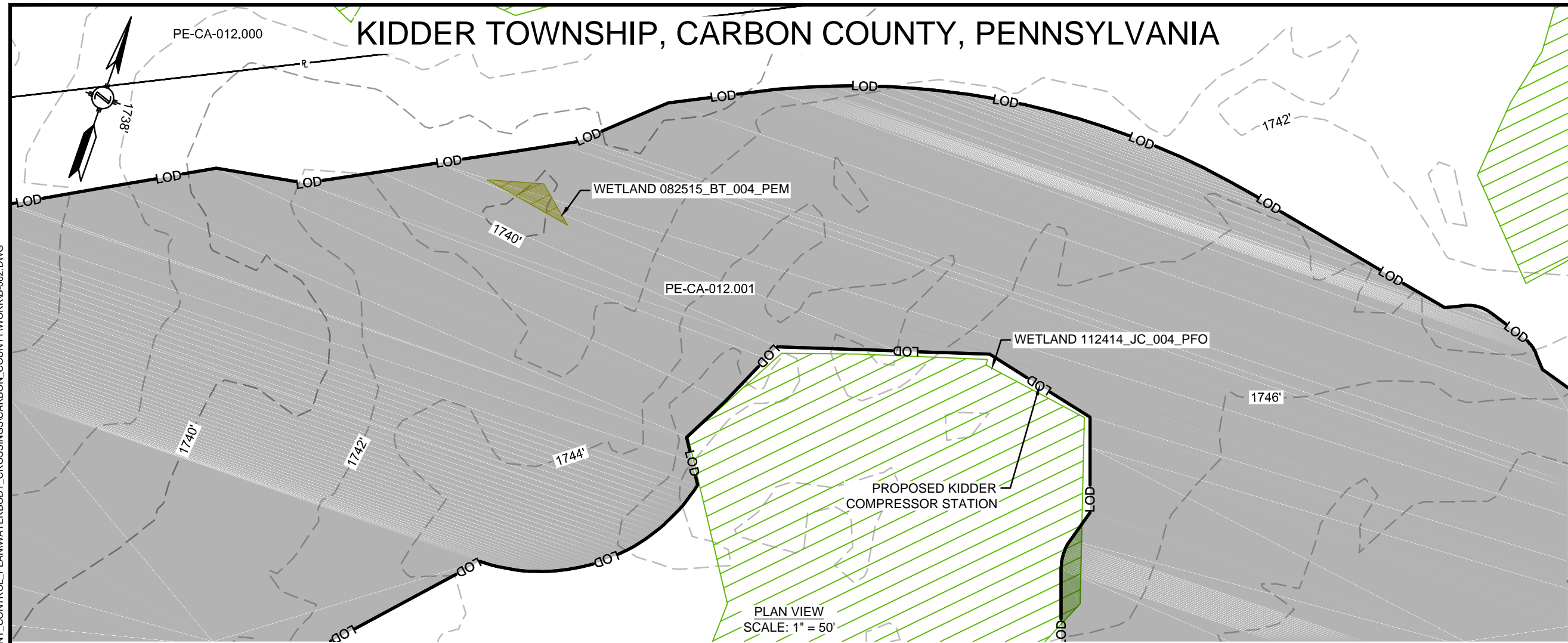
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PREPARED BY:

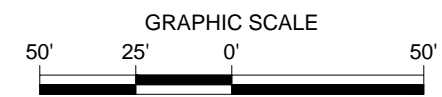
PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 26.7		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-FAC-002	0

11/15/2018 10:35 PM, MORALES, HECTOR
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KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
112414_JC_004_PFO - 1	WETLAND	-	-	-	0.01	-	-	N/A	-	-	N/A
082515_BT_004_PEM	WETLAND	-	-	-	0.00	-	-	N/A	-	-	N/A

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

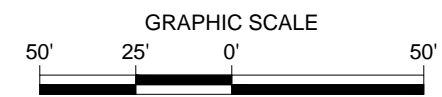
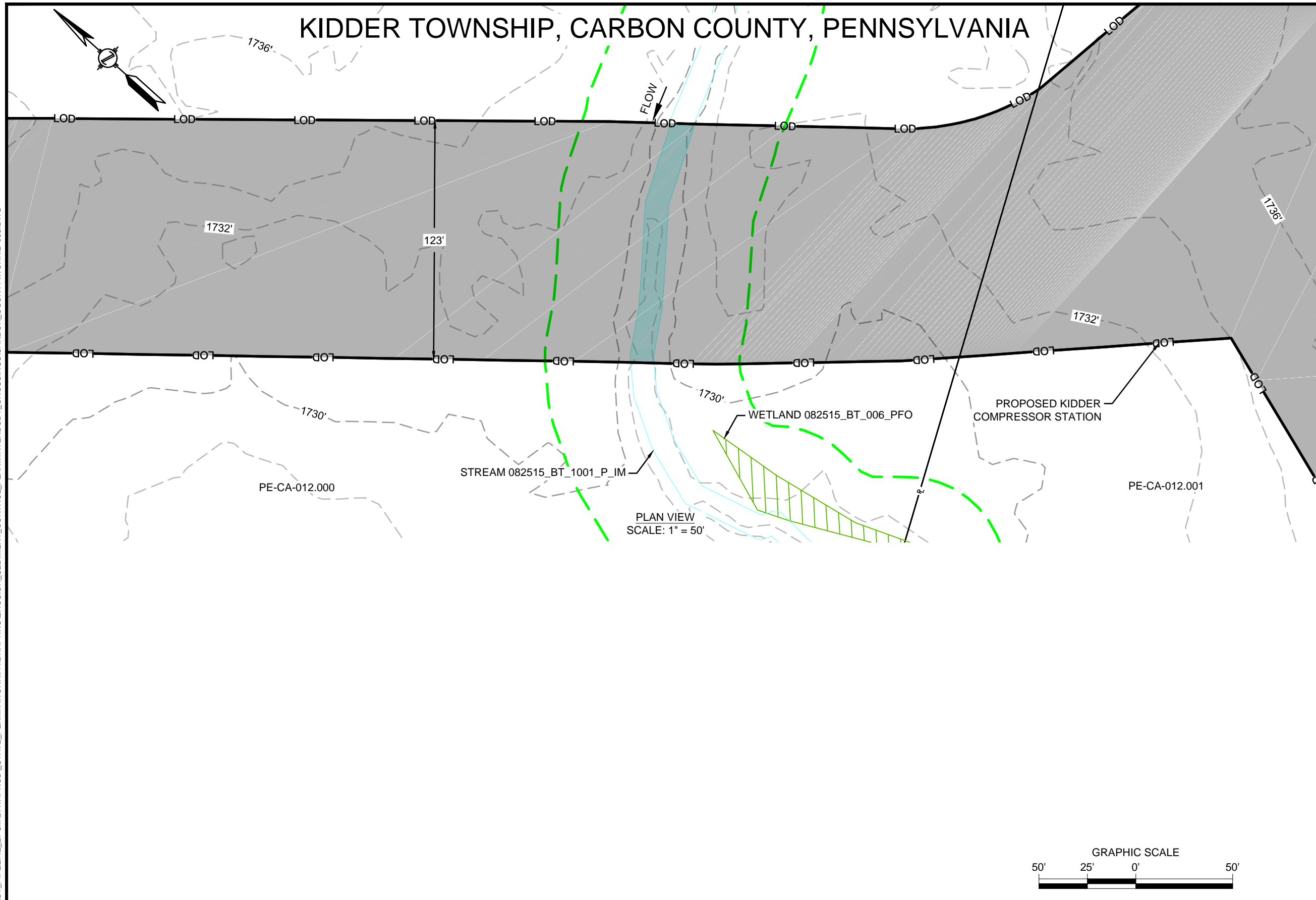
PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 26.6		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-FAC-003	0

12/17/2018 2:15 PM, MORALES, HECTOR
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KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



FEATURE ID 082515_BT_1001_P_IM	RESOURCE TYPE WATERBODY	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			EQUIPMENT CROSSING PERMANENT CULVERT INSTALLED
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	
		-	-	-	0.03	0.29	N/A - KIDDER COMPRESSOR STATION ACCESS ROAD	N/A

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

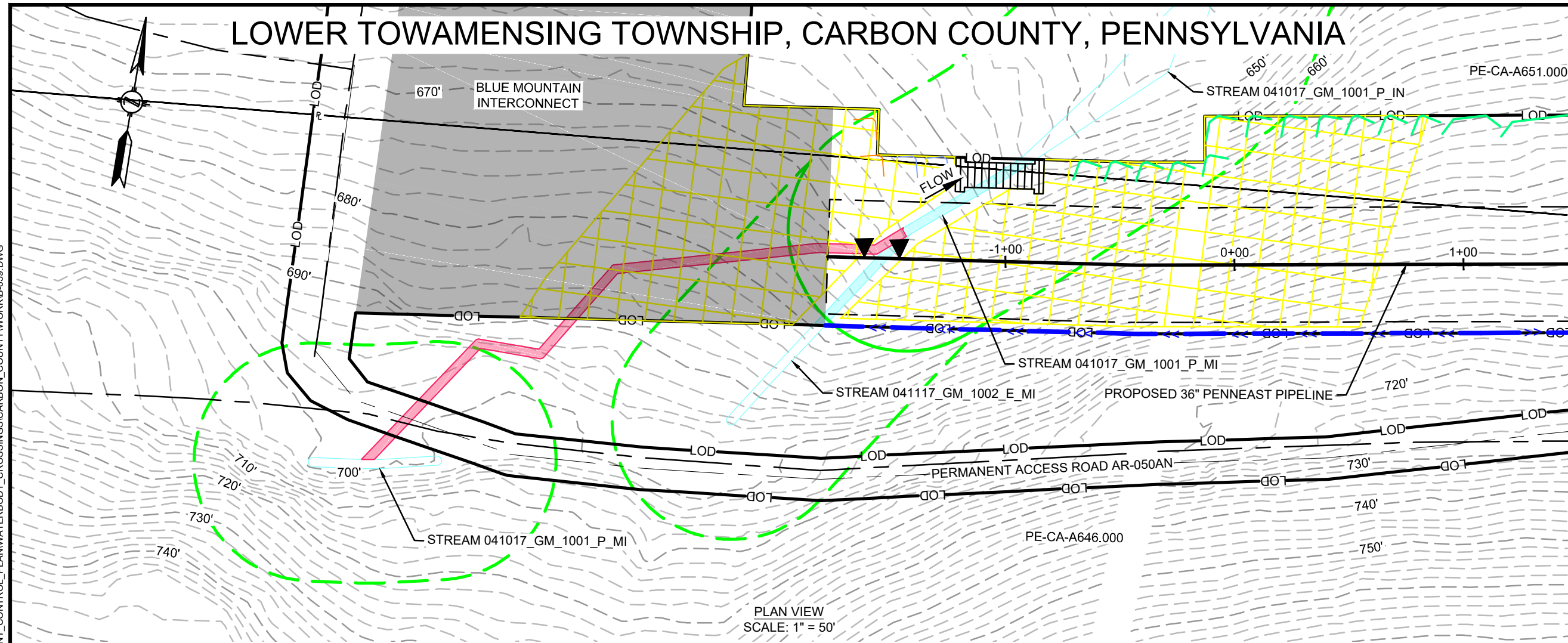
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

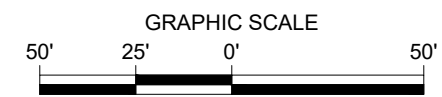
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE KIDDER TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 26.6		
SCALE 1"=50'	DRAWING NO. WSS-CA-FAC-004	REVISION 0

LOWER TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA



PLAN VIEW
SCALE: 1" = 50'



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
041017_GM_1001_P_IN	WATERBODY	-	0.10	-	0.12	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT
041017_GM_1001_P_MI	WATERBODY	-	-	-	-	FX	DPX	DX-NF	MAT BRIDGE OR EQUIVALENT
041117_GM_1002_E_MI	WATERBODY	-	0.01	-	0.03	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT

11/15/2018 6:53 PM, BARBOSA, ELIEZER
G:\PENNEAST\365754_PENNEAST_PIPELINE_EPC\MIDATAPROD\STATE_PERMIT\WORK\PAIDRAFTING\EROSION_SEDIMENT_CONTROL_PLAN\WATERBODY_CROSSINGS\CARBON_COUNTY\WORK\B-059.DWG

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:



PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 4" BLUE MOUNTAIN LATERAL LOWER TOWAMENSING TOWNSHIP, CARBON COUNTY, PENNSYLVANIA M.P. 0.5R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-CA-LA-001	0