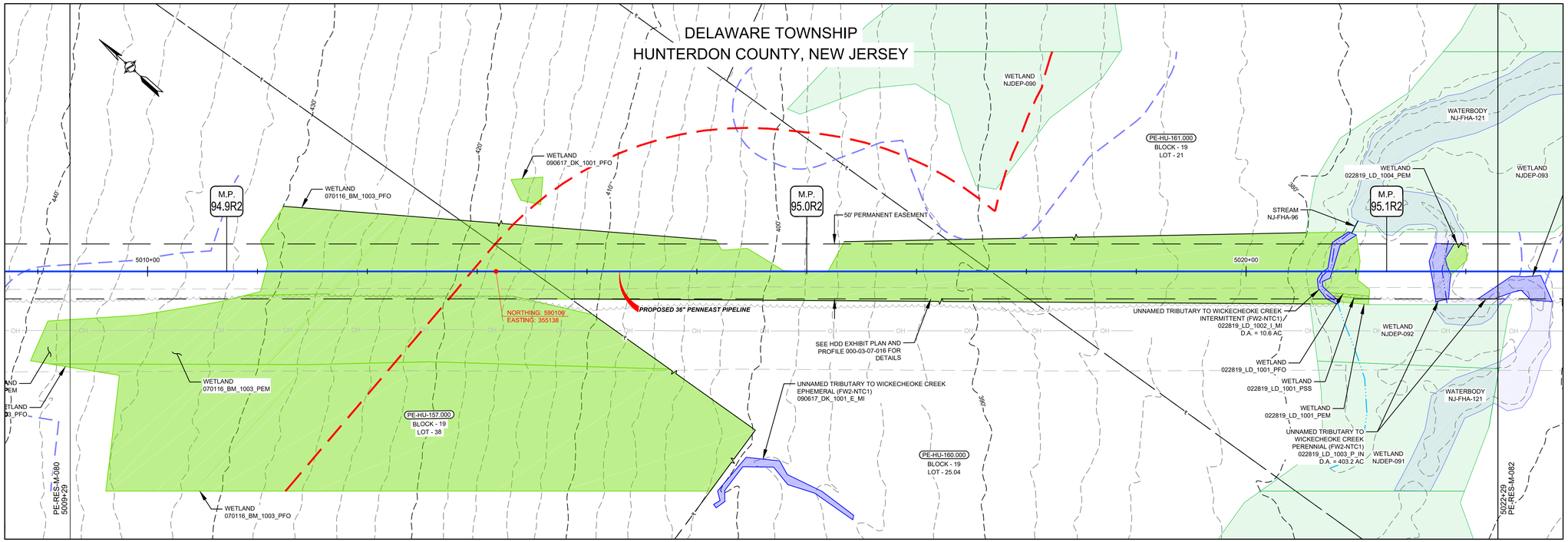
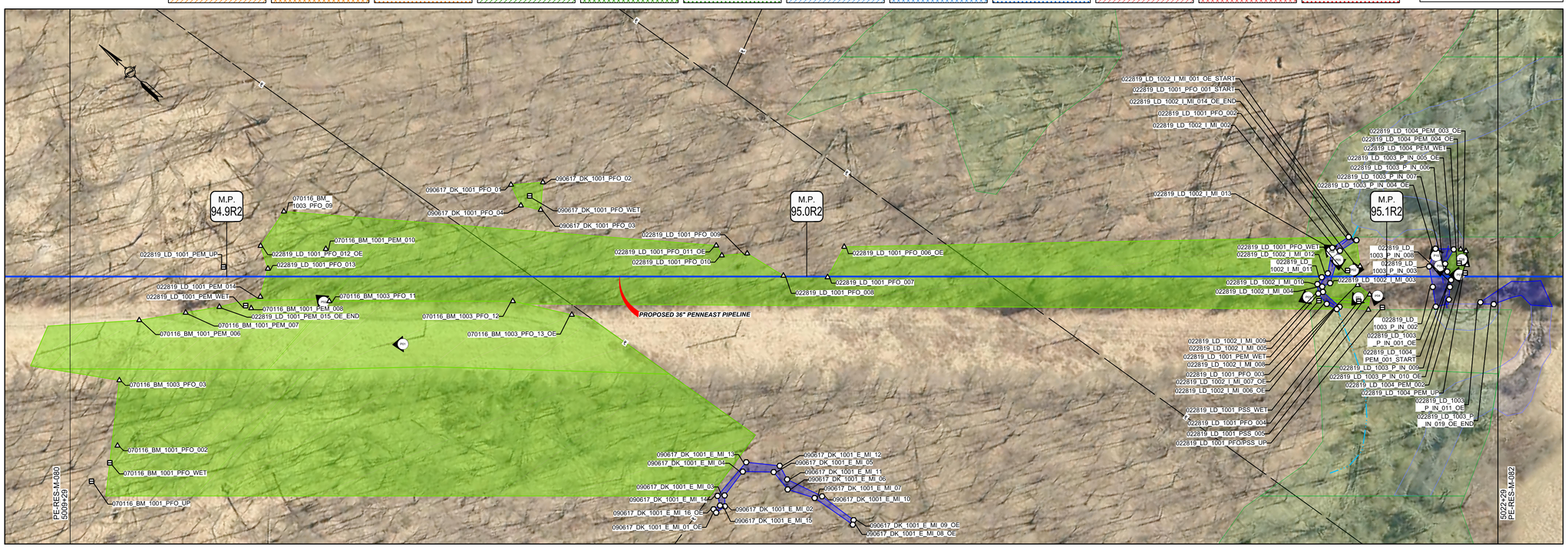


RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

AGRICULTURE RIPARIAN ZONE | AGRICULTURE RIPARIAN ZONE/TRANSITION AREA | AGRICULTURE TRANSITION AREA | UPLAND FOREST RIPARIAN ZONE | UPLAND FOREST RIPARIAN ZONE/TRANSITION AREA | UPLAND FOREST TRANSITION AREA | NATIVE GRASSLAND RIPARIAN ZONE | NATIVE GRASSLAND RIPARIAN ZONE/TRANSITION AREA | NATIVE GRASSLAND TRANSITION AREA | MAINTAINED LAWN RIPARIAN ZONE | MAINTAINED LAWN RIPARIAN ZONE/TRANSITION AREA | MAINTAINED LAWN TRANSITION AREA

GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- LB-HU-A001.000 — PARCEL ID WITH BLOCK AND LOT NUMBER (BLOCK - 1, LOT - 10.00)
- EXISTING CULVERT
- CPP — CORRUGATED PLASTIC PIPE
- CMP — CORRUGATED METAL PIPE
- HDPE — HIGH DENSITY POLYETHYLENE PIPE
- PVC — POLYVINYL CHLORIDE PIPE
- RCP — REINFORCED CONCRETE PIPE
- UNK — UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260' — EXISTING MAJOR CONTOURS
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- EXISTING PIPELINE
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- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO — WETLAND FLAG
- SAMPLE STATION — SAMPLE STATION
- SOW_FLAG_NO — STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE — DATE 08/01/2019

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DWG. NO.	TITLE
000-03-07-016	* HDD EXHIBIT PLAN AND PROFILE

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

	DATE
DRAWN BY: RJP	7/2019
CHECKED BY: KEK	7/2019
ENG. APPROVAL: MJD	7/2019
P.M. APPROVAL: MW	7/2019

CLIENT APPROVAL — DATE

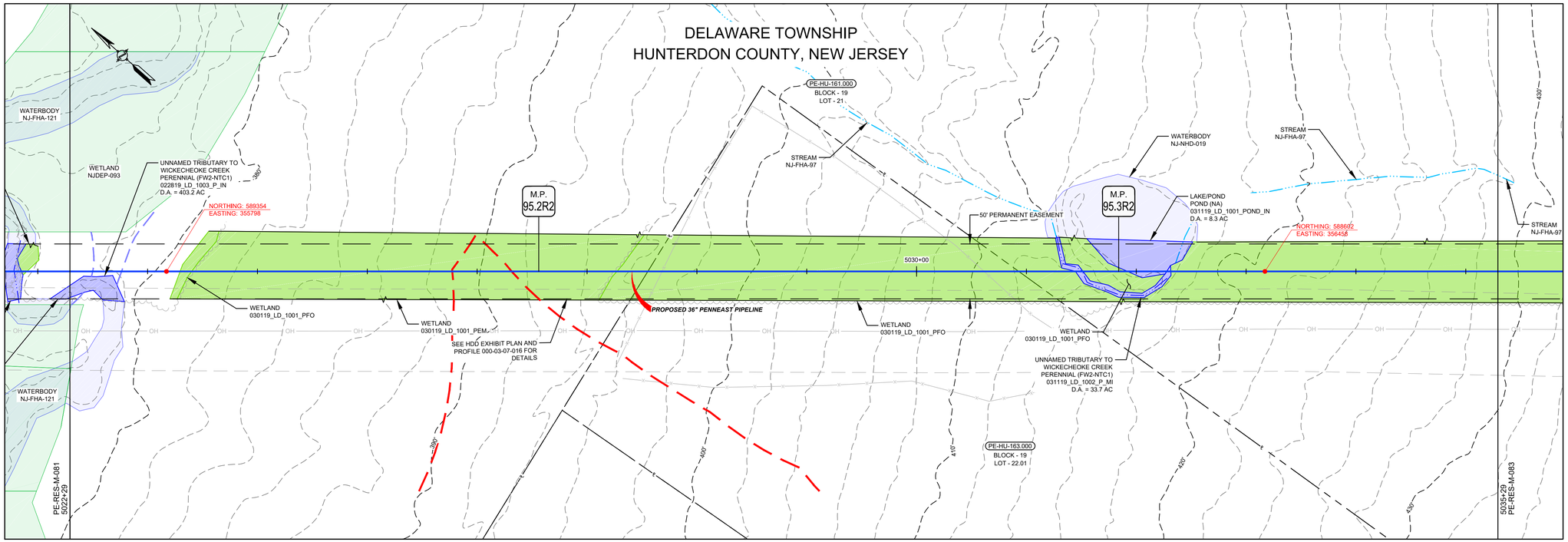
PREPARED FOR: PennEast PIPELINE

PREPARED BY: MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 94.9R2 - MP 95.1R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-081	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

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GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'

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- LIMITS OF DISTURBANCE
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- OPERATIONAL CORRIDOR
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- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
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KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE

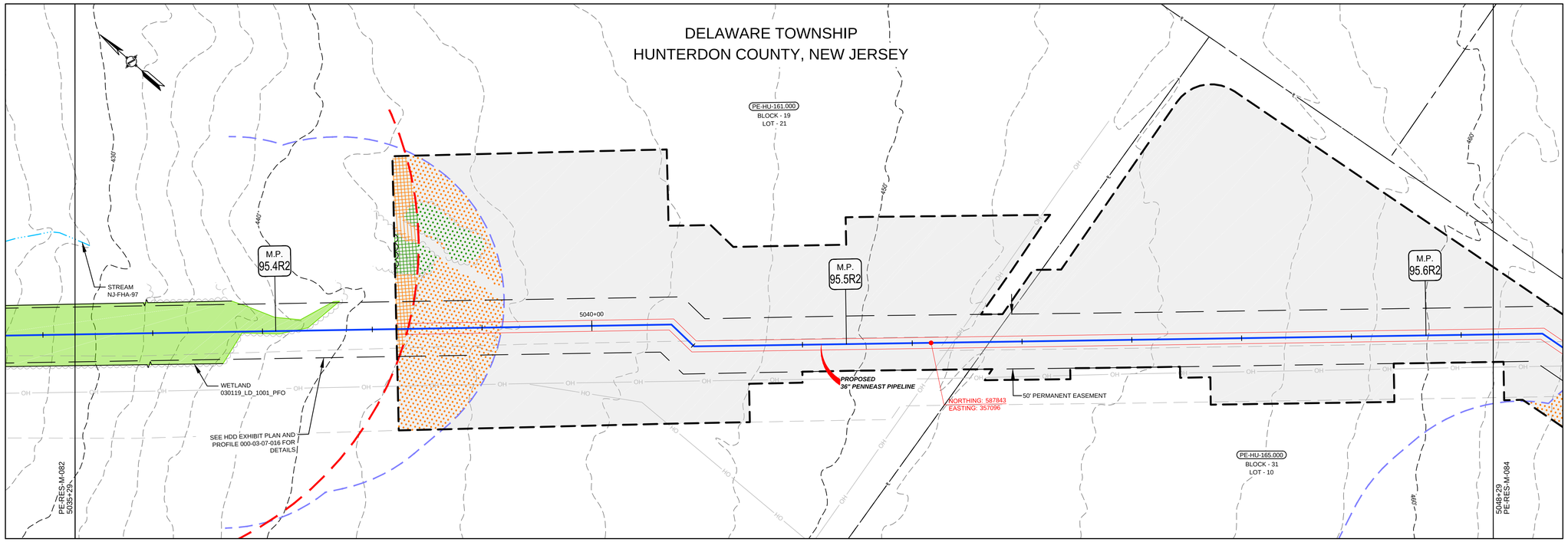
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 95.1R2 - MP 95.4R2

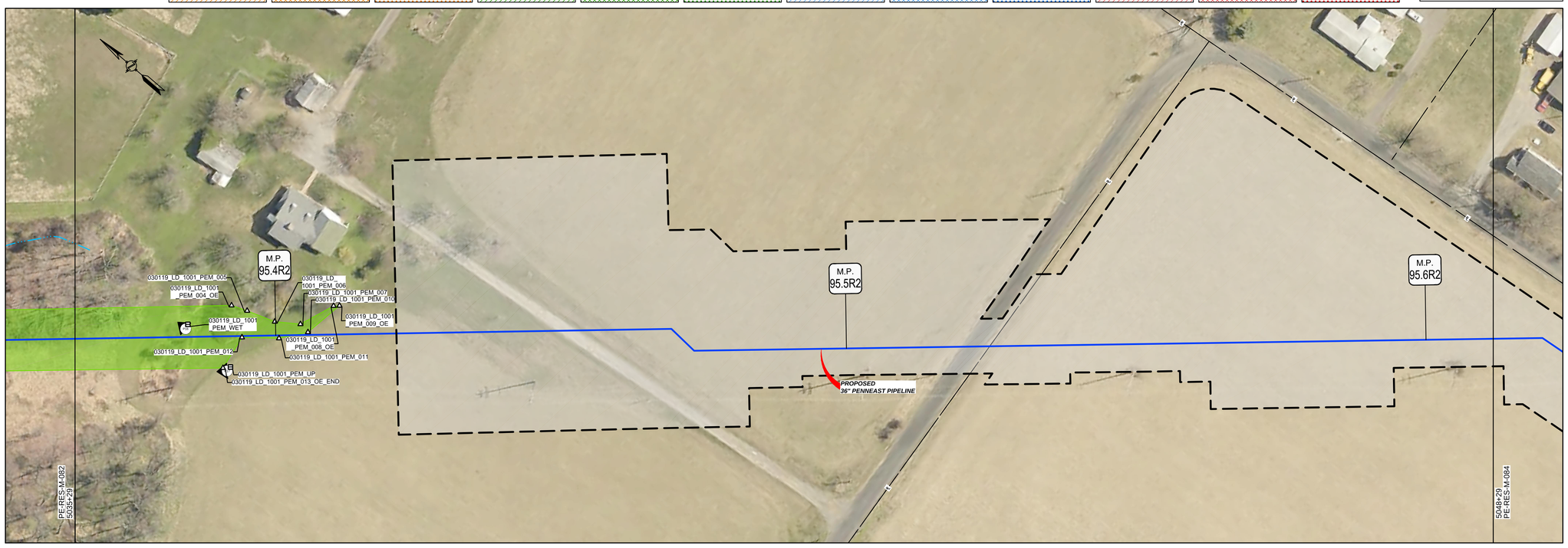
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-082	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

AGRICULTURE RIPARIAN ZONE	AGRICULTURE RIPARIAN ZONE/TRANSITION AREA	AGRICULTURE TRANSITION AREA	UPLAND FOREST RIPARIAN ZONE	UPLAND FOREST RIPARIAN ZONE/TRANSITION AREA	UPLAND FOREST TRANSITION AREA	NATIVE GRASSLAND RIPARIAN ZONE	NATIVE GRASSLAND RIPARIAN ZONE/TRANSITION AREA	NATIVE GRASSLAND TRANSITION AREA	MAINTAINED LAWN RIPARIAN ZONE	MAINTAINED LAWN RIPARIAN ZONE/TRANSITION AREA	MAINTAINED LAWN TRANSITION AREA

GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

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SIGNATURE — DATE 08/01/2019

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000-03-07-016	* HDD EXHIBIT PLAN AND PROFILE

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0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
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KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL
DATE
7/2019

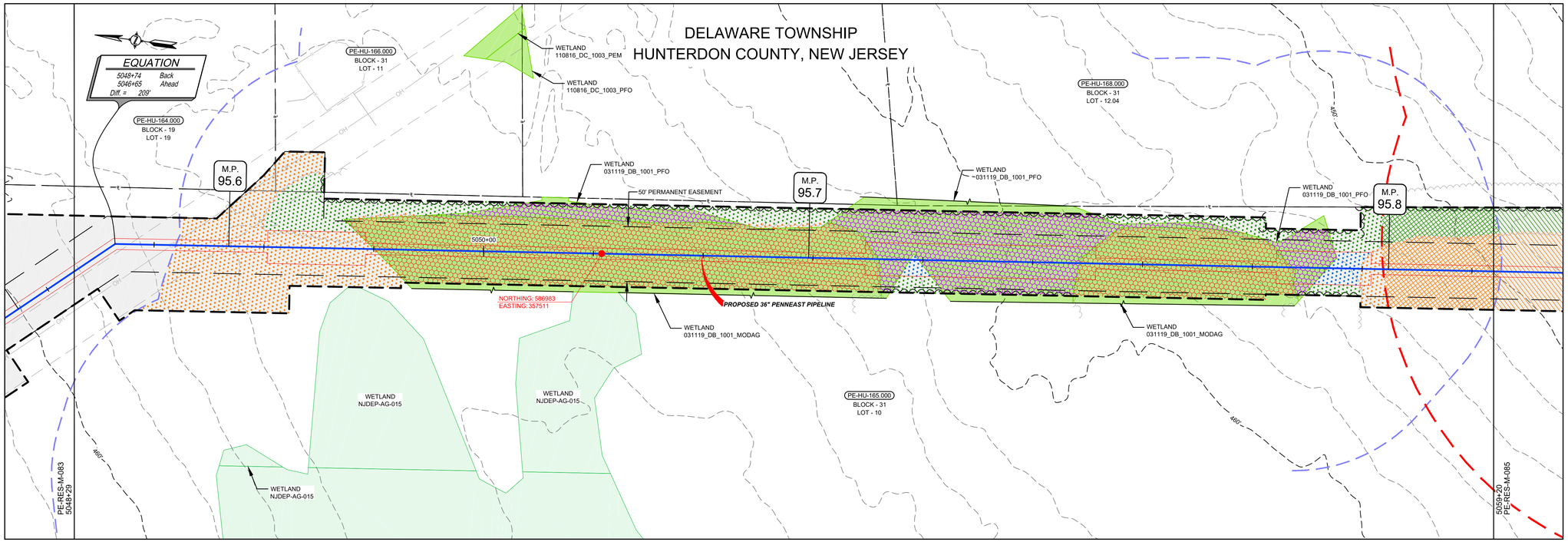
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 95.4R2 - MP 95.6R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-083	0



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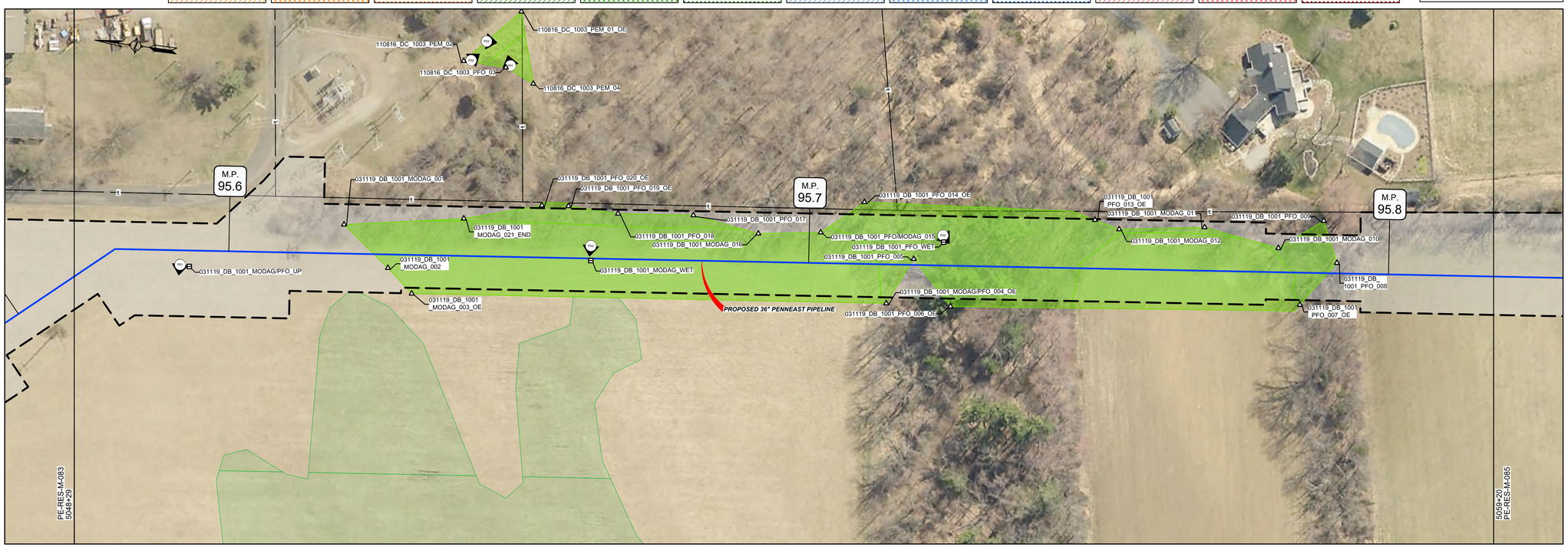
GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

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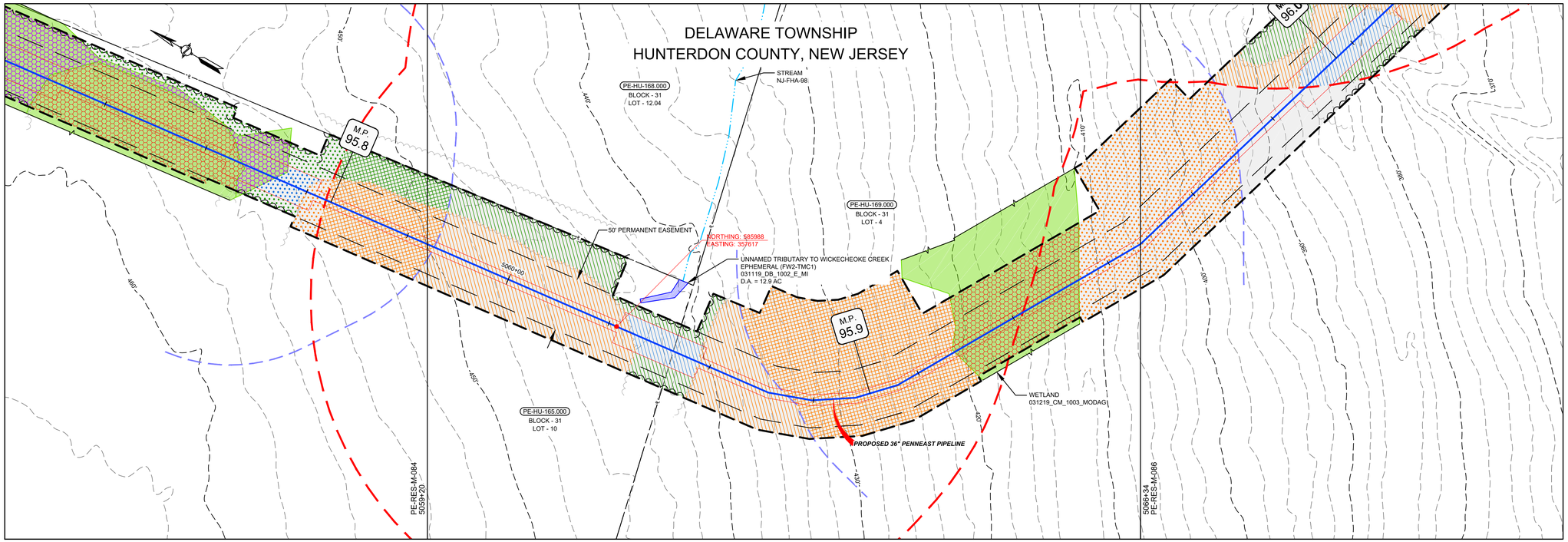
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 95.6R2 - MP 95.8

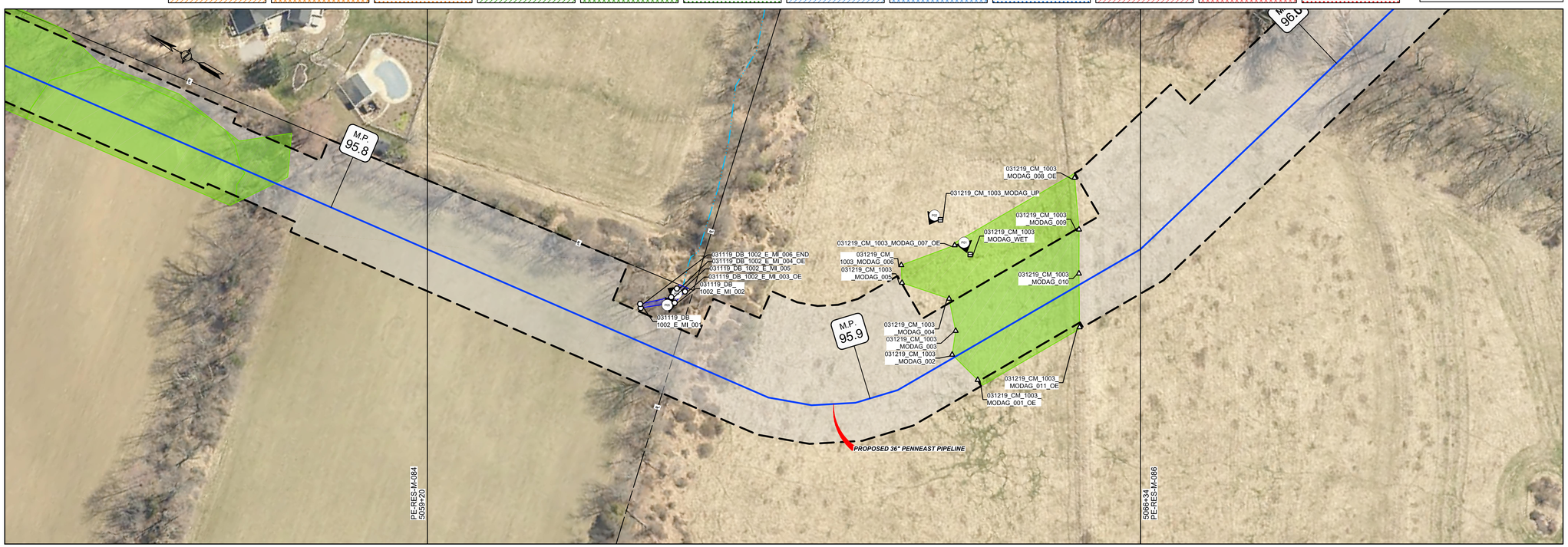
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-084	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

AGRICULTURE RIPARIAN ZONE | AGRICULTURE RIPARIAN ZONE/TRANSITION AREA | AGRICULTURE TRANSITION AREA | UPLAND FOREST RIPARIAN ZONE | UPLAND FOREST RIPARIAN ZONE/TRANSITION AREA | UPLAND FOREST TRANSITION AREA | NATIVE GRASSLAND RIPARIAN ZONE | NATIVE GRASSLAND RIPARIAN ZONE/TRANSITION AREA | NATIVE GRASSLAND TRANSITION AREA | MAINTAINED LAWN RIPARIAN ZONE | MAINTAINED LAWN RIPARIAN ZONE/TRANSITION AREA | MAINTAINED LAWN TRANSITION AREA

GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- LB-HU-A001.000 BLOCK - 1 LOT - 10.00 — PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CPP — CORRUGATED PLASTIC PIPE
- CMP — CORRUGATED METAL PIPE
- HDPE — HIGH DENSITY POLYETHYLENE PIPE
- PVC — POLYVINYL CHLORIDE PIPE
- RCP — REINFORCED CONCRETE PIPE
- UNK — UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260' — EXISTING MAJOR CONTOURS
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- EXISTING PIPELINE
- OH — EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO — WETLAND FLAG
- SAMPLE STATION — SAMPLE STATION
- SOW_FLAG_NO — STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

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PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE — DATE 08/01/2019

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REFERENCE DRAWINGS

DWG. NO.	TITLE

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

	DATE
DRAWN BY: RJP	7/2019
CHECKED BY: KEK	7/2019
ENG. APPROVAL: MJD	7/2019
P.M. APPROVAL: MW	7/2019

CLIENT APPROVAL — DATE

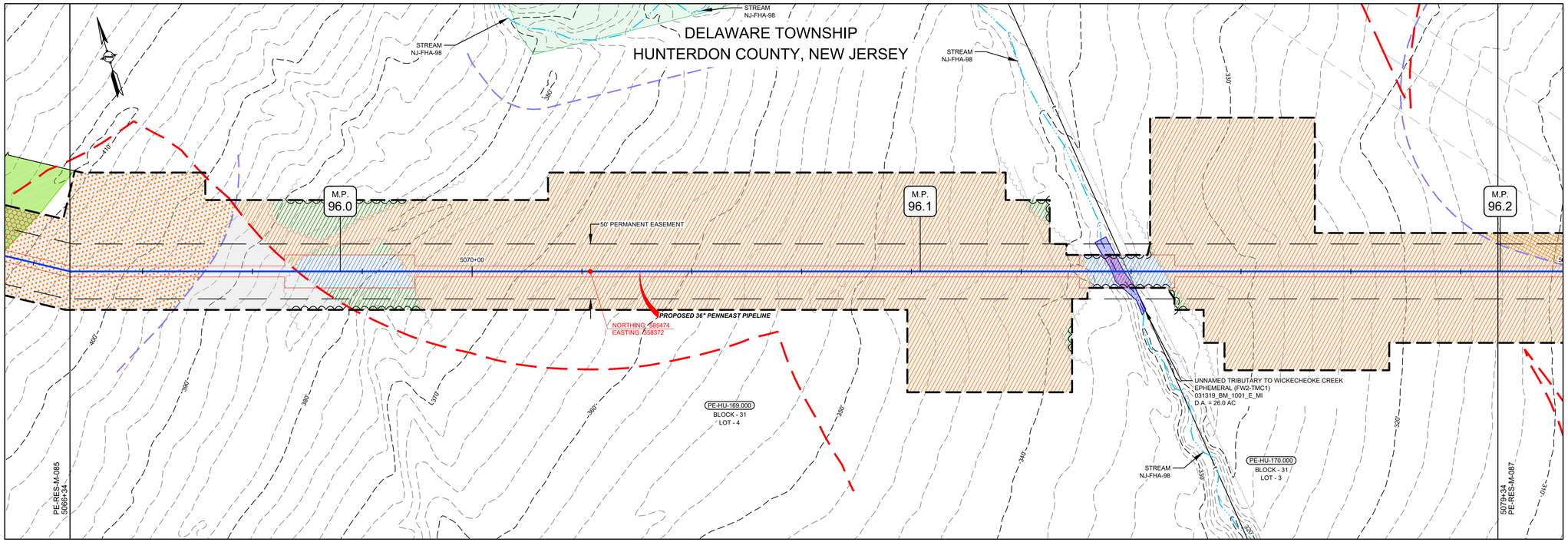
PREPARED FOR: PennEast Pipeline

PREPARED BY: MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 95.8 - MP 96.0

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-085	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

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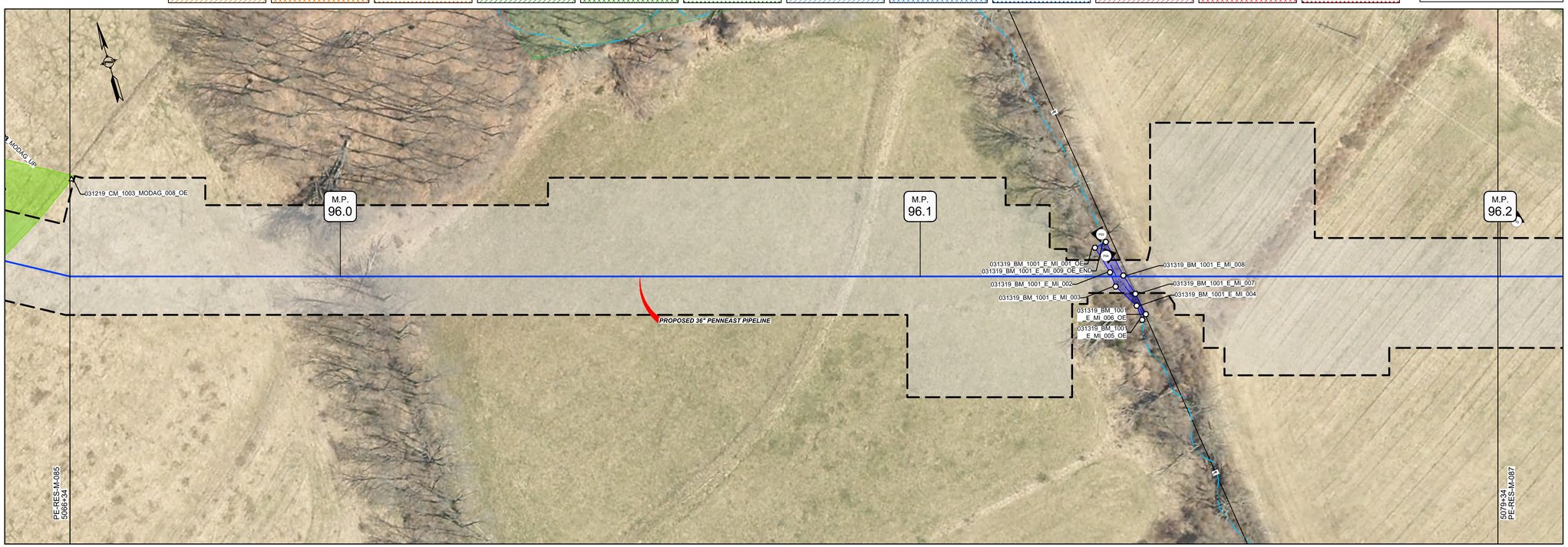
GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
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- OPERATIONAL CORRIDOR
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- SOW_FLAG_NO — STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

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N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE — DATE 08/01/2019

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REFERENCE DRAWINGS

DWG. NO.	TITLE

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE

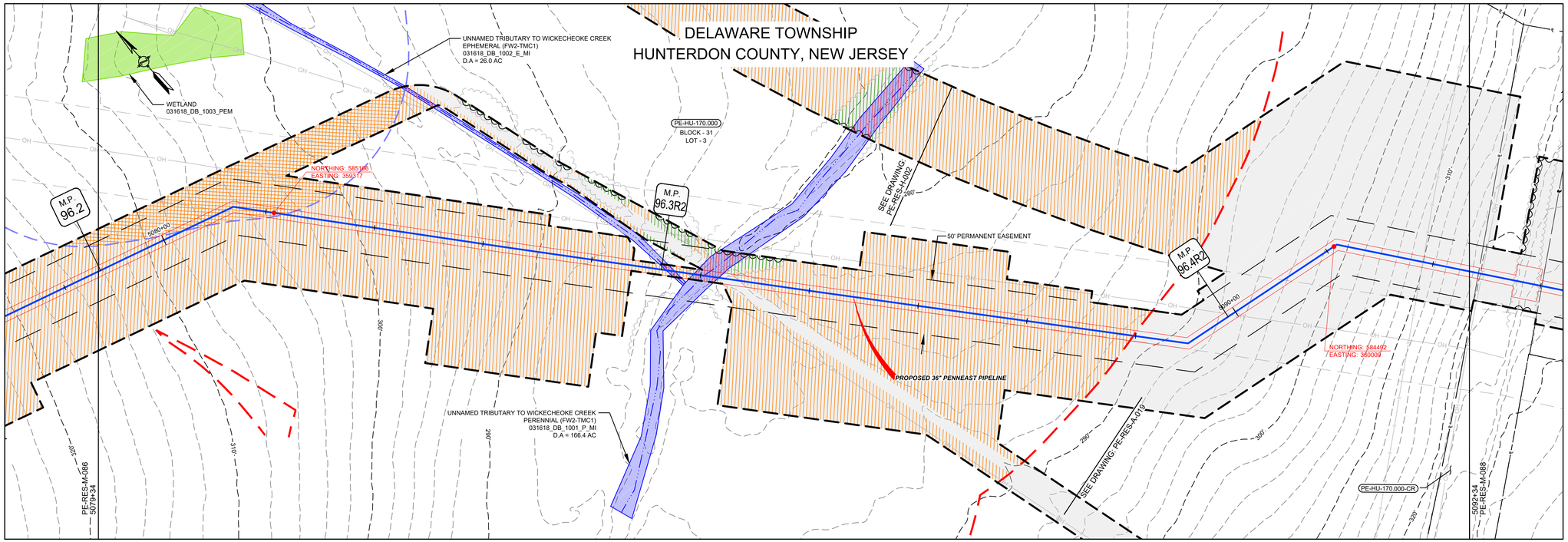
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 96.0 - MP 96.2

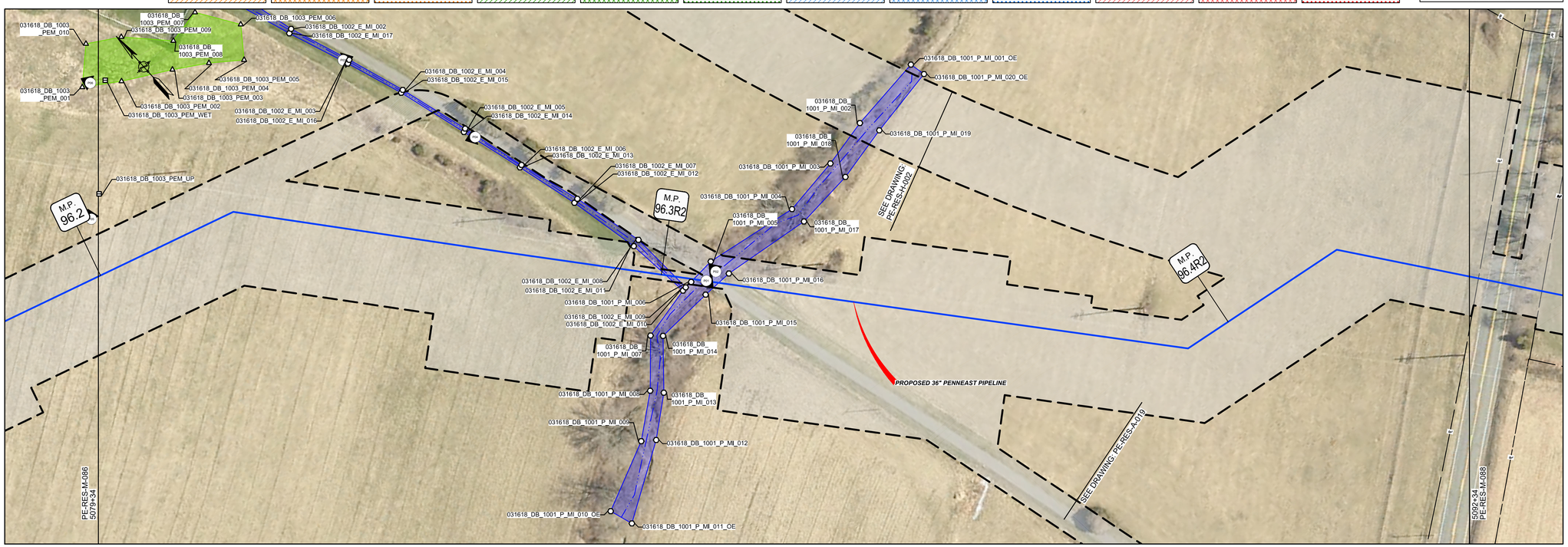
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-086	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

AGRICULTURE RIPARIAN ZONE	AGRICULTURE RIPARIAN ZONE/TRANSITION AREA	AGRICULTURE TRANSITION AREA	UPLAND FOREST RIPARIAN ZONE	UPLAND FOREST RIPARIAN ZONE/TRANSITION AREA	UPLAND FOREST TRANSITION AREA	NATIVE GRASSLAND RIPARIAN ZONE	NATIVE GRASSLAND RIPARIAN ZONE/TRANSITION AREA	NATIVE GRASSLAND TRANSITION AREA	MAINTAINED LAWN RIPARIAN ZONE	MAINTAINED LAWN RIPARIAN ZONE/TRANSITION AREA	MAINTAINED LAWN TRANSITION AREA

GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE — DATE 08/01/2019

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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-03-071	* ACCESS ROAD DETAIL

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE 7/2019

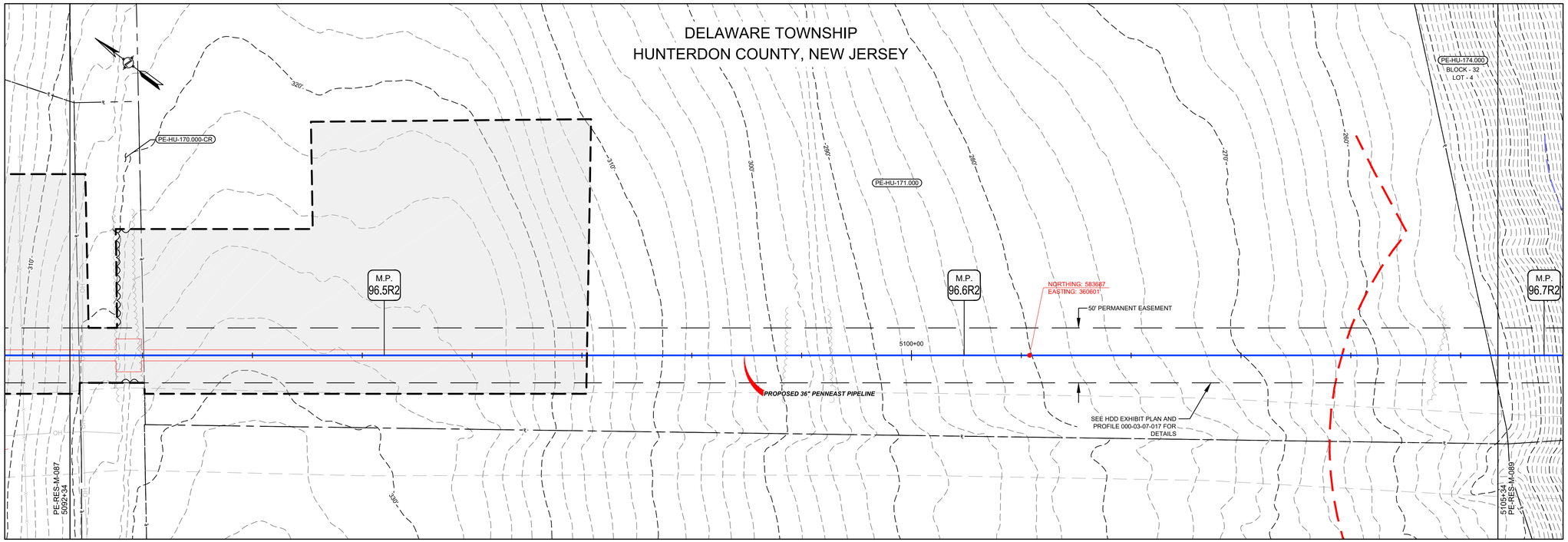
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 96.2 - MP 96.4R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-087	0



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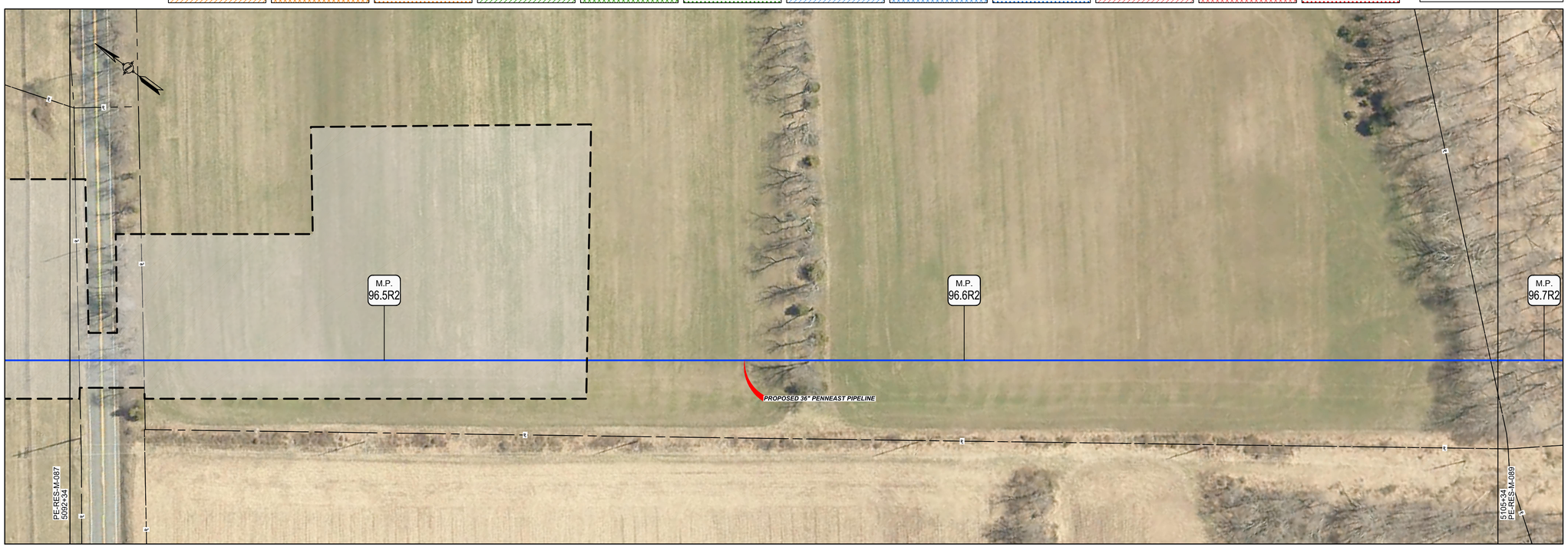
GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-07-017	* HDD EXHIBIT PLAN AND PROFILE

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
RJP	7/2019
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KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE 7/2019

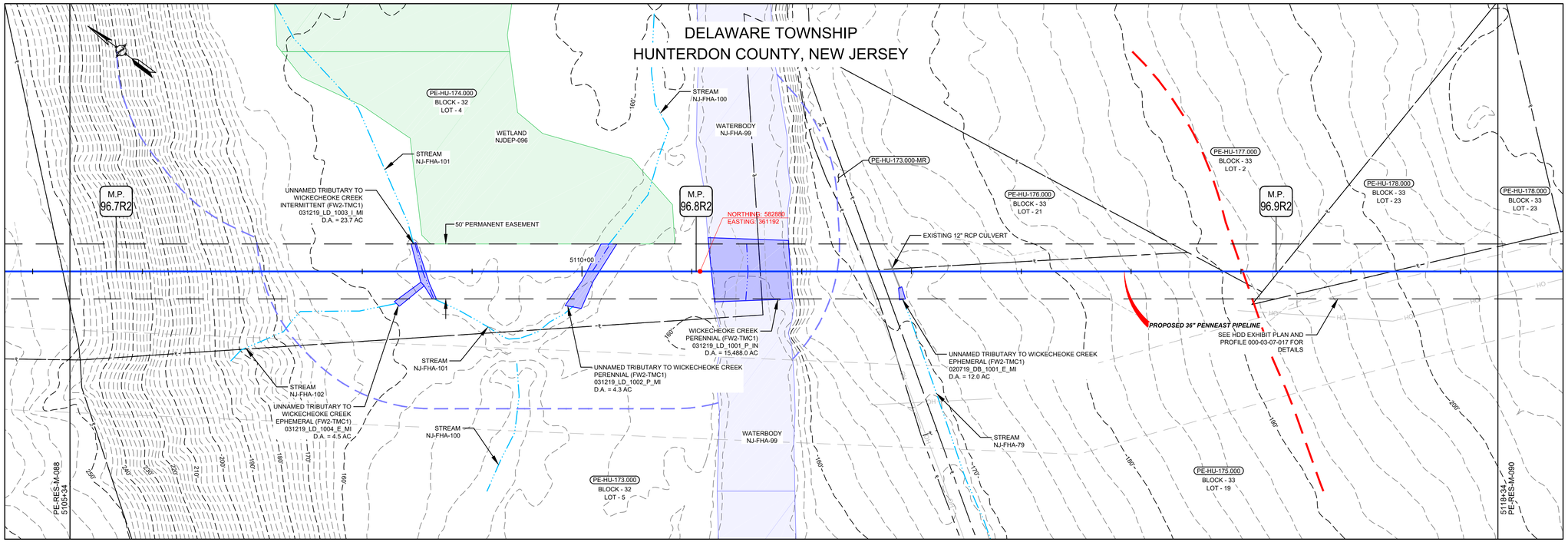
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 96.4R2 - MP 96.7R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-088	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

AGRICULTURE RIPARIAN ZONE	AGRICULTURE RIPARIAN ZONE/TRANSITION AREA	AGRICULTURE TRANSITION AREA	UPLAND FOREST RIPARIAN ZONE	UPLAND FOREST RIPARIAN ZONE/TRANSITION AREA	UPLAND FOREST TRANSITION AREA	NATIVE GRASSLAND RIPARIAN ZONE	NATIVE GRASSLAND RIPARIAN ZONE/TRANSITION AREA	NATIVE GRASSLAND TRANSITION AREA	MAINTAINED LAWN RIPARIAN ZONE	MAINTAINED LAWN RIPARIAN ZONE/TRANSITION AREA	MAINTAINED LAWN TRANSITION AREA

GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'

LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- LB-HU-A001.000 BLOCK - 1 LOT - 10.00 — PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CPP — CORRUGATED PLASTIC PIPE
- CMP — CORRUGATED METAL PIPE
- HDPE — HIGH DENSITY POLYETHYLENE PIPE
- PVC — POLYVINYL CHLORIDE PIPE
- RCP — REINFORCED CONCRETE PIPE
- UNK — UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260' — EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- OH — EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO — WETLAND FLAG
- SAMPLE STATION — SAMPLE STATION
- SOW_FLAG_NO — STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE — DATE 08/01/2019

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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-07-017	* HDD EXHIBIT PLAN AND PROFILE

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
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CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE 7/2019

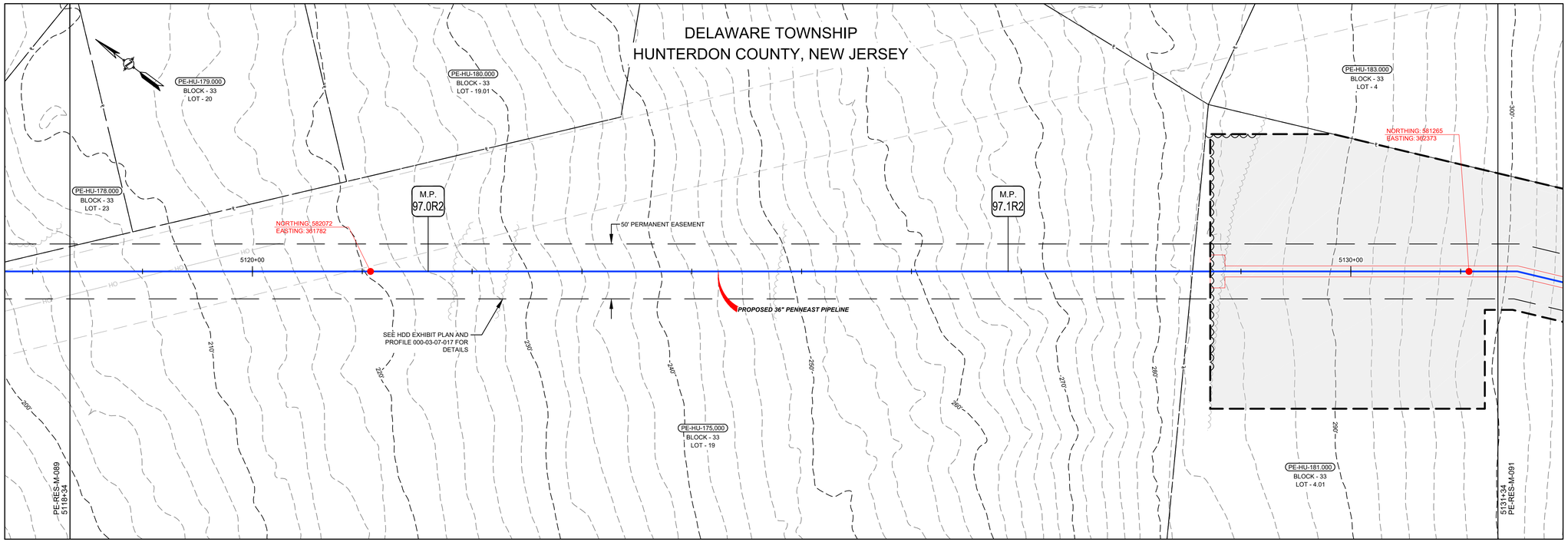
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 96.7R2 - MP 96.9R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-089	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

AGRICULTURE RIPARIAN ZONE | AGRICULTURE RIPARIAN ZONE/TRANSITION AREA | AGRICULTURE TRANSITION AREA | UPLAND FOREST RIPARIAN ZONE | UPLAND FOREST RIPARIAN ZONE/TRANSITION AREA | UPLAND FOREST TRANSITION AREA | NATIVE GRASSLAND RIPARIAN ZONE | NATIVE GRASSLAND RIPARIAN ZONE/TRANSITION AREA | NATIVE GRASSLAND TRANSITION AREA | MAINTAINED LAWN RIPARIAN ZONE | MAINTAINED LAWN RIPARIAN ZONE/TRANSITION AREA | MAINTAINED LAWN TRANSITION AREA

GRAPHIC SCALE
50' 25' 0 50'
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MW	7/2019

CLIENT APPROVAL — DATE 7/2019

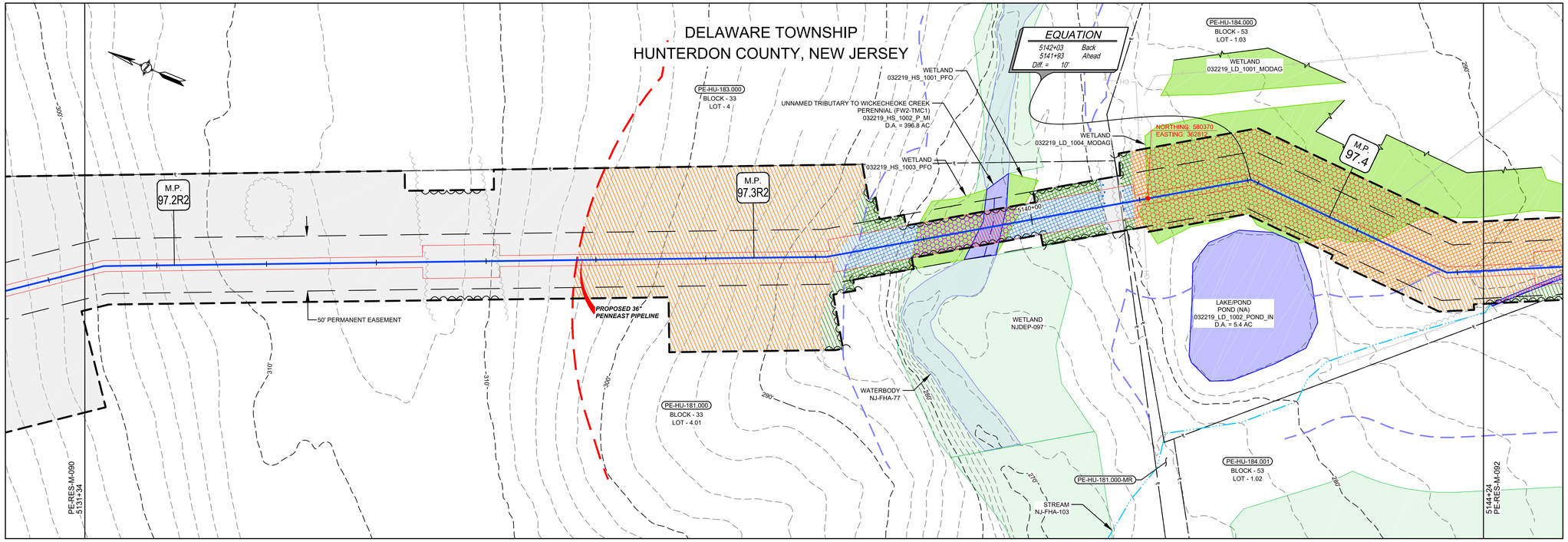
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 96.9R2 - MP 97.2R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-090	0



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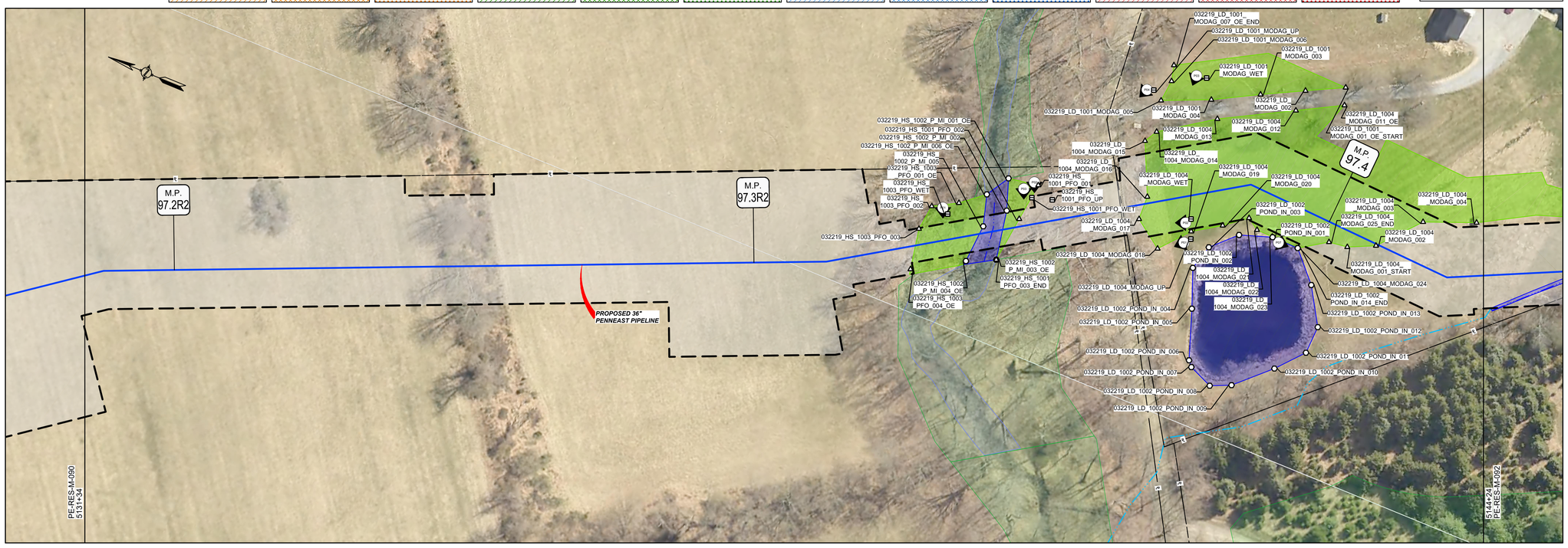
SCALE: 1" = 50'



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CLIENT APPROVAL — DATE

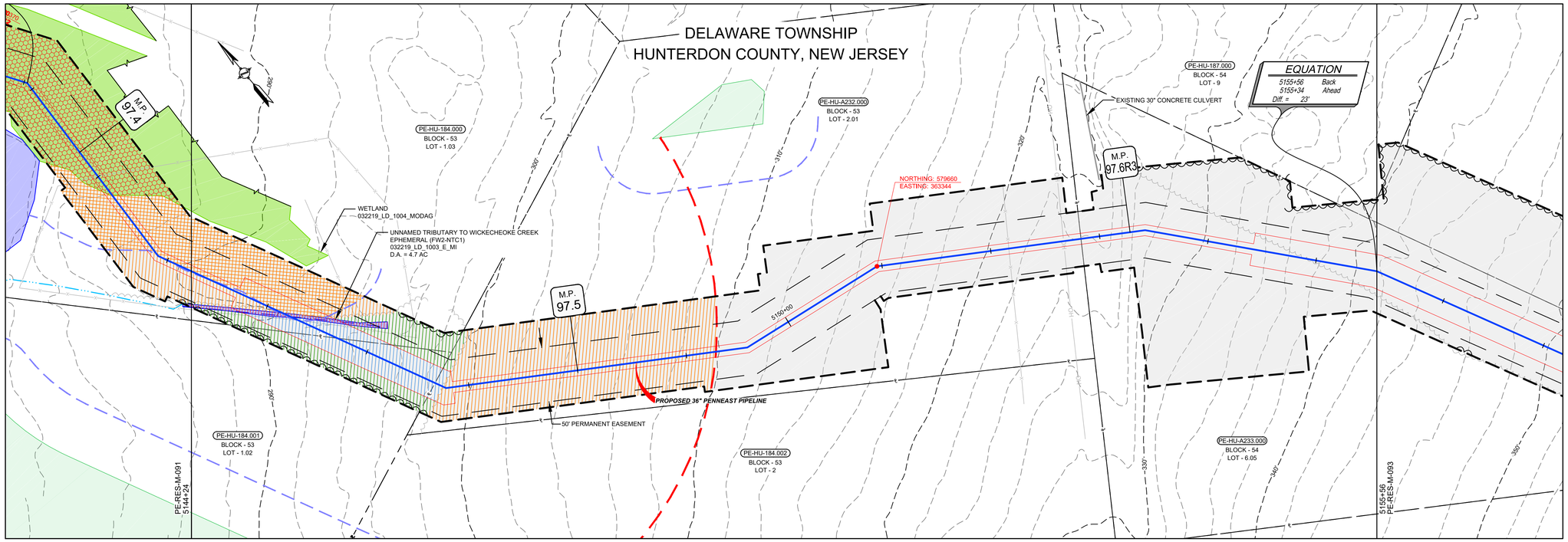
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 97.2R2 - MP 97.4

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-091	0



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GRAPHIC SCALE
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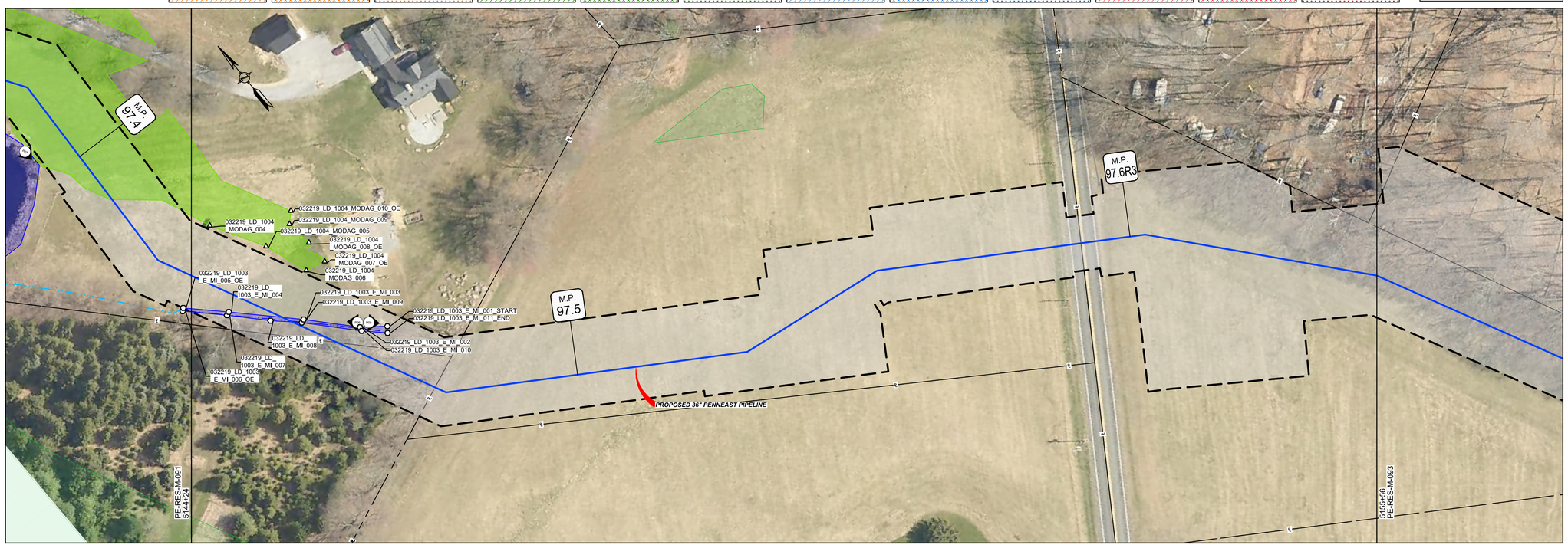

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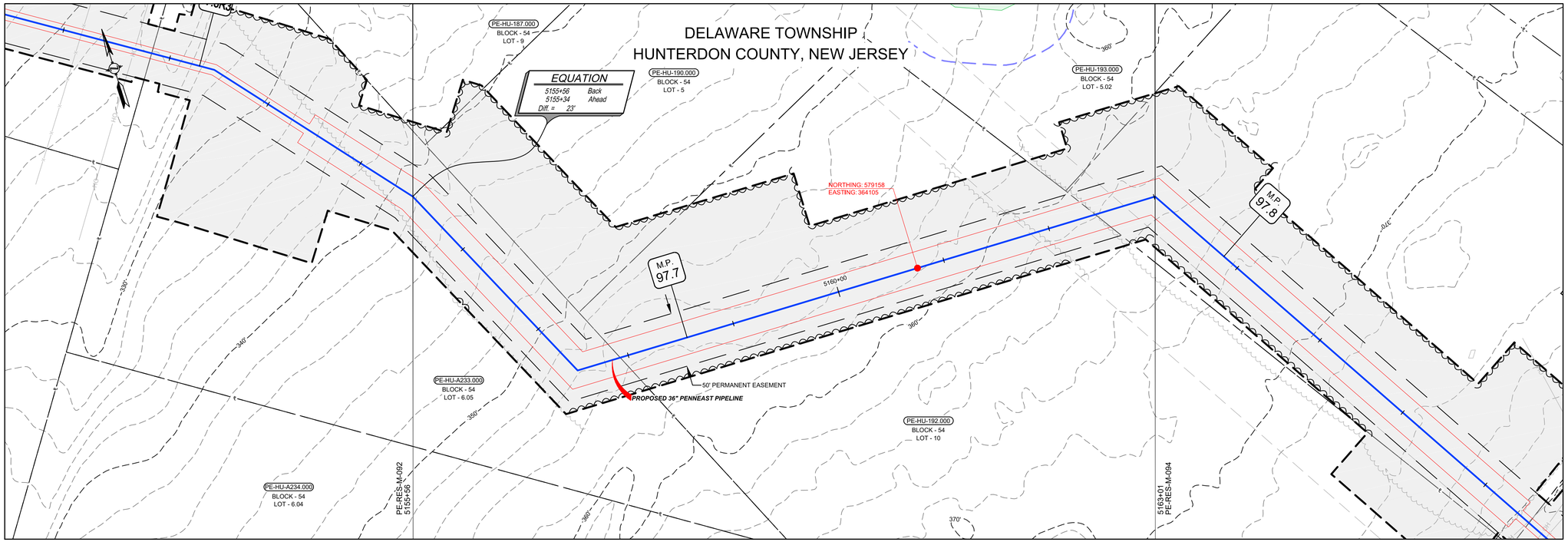
PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 97.4 - MP 97.6R3

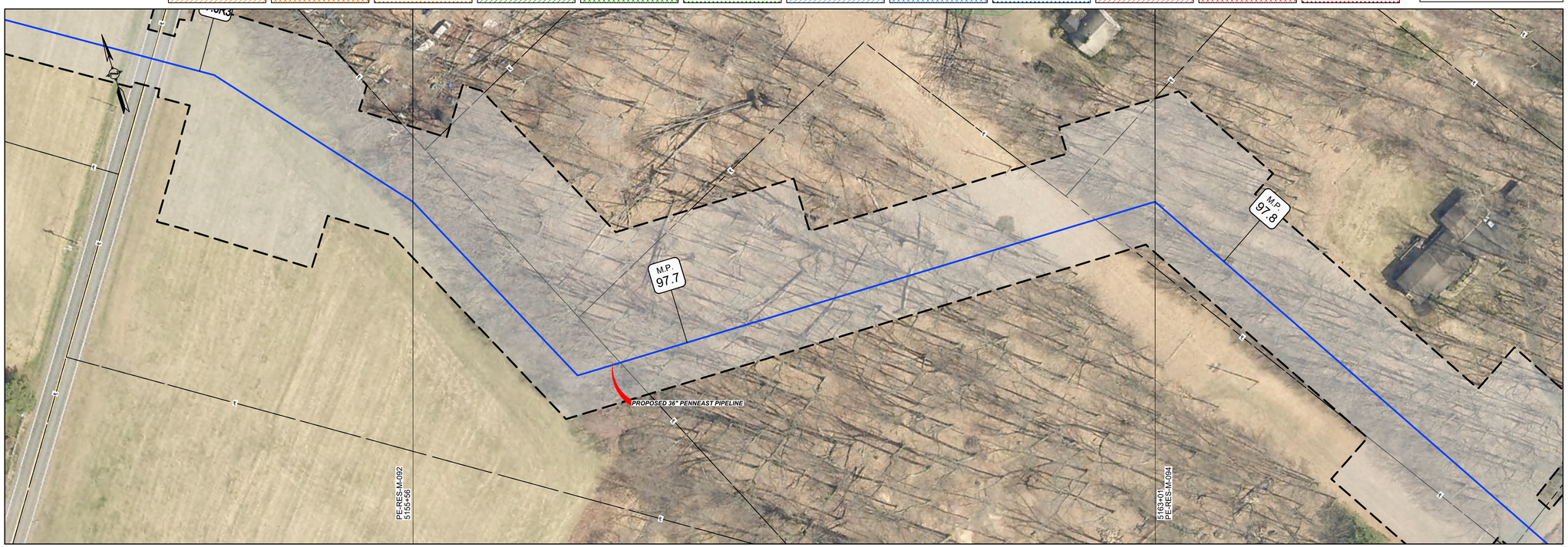
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-092	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

AGRICULTURE RIPARIAN ZONE | AGRICULTURE RIPARIAN ZONE/TRANSITION AREA | AGRICULTURE TRANSITION AREA | UPLAND FOREST RIPARIAN ZONE | UPLAND FOREST RIPARIAN ZONE/TRANSITION AREA | UPLAND FOREST TRANSITION AREA | NATIVE GRASSLAND RIPARIAN ZONE | NATIVE GRASSLAND RIPARIAN ZONE/TRANSITION AREA | NATIVE GRASSLAND TRANSITION AREA | MAINTAINED LAWN RIPARIAN ZONE | MAINTAINED LAWN RIPARIAN ZONE/TRANSITION AREA | MAINTAINED LAWN TRANSITION AREA

GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- LB-HU-A001.000 BLOCK - 1 LOT - 10.00 — PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CPP — CORRUGATED PLASTIC PIPE
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- PVC — POLYVINYL CHLORIDE PIPE
- RCP — REINFORCED CONCRETE PIPE
- UNK — UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260' — EXISTING MAJOR CONTOURS
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- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO — WETLAND FLAG
- SAMPLE STATION — SAMPLE STATION
- SOW_FLAG_NO — STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE — DATE 08/01/2019

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REFERENCE DRAWINGS

DWG. NO.	TITLE

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE

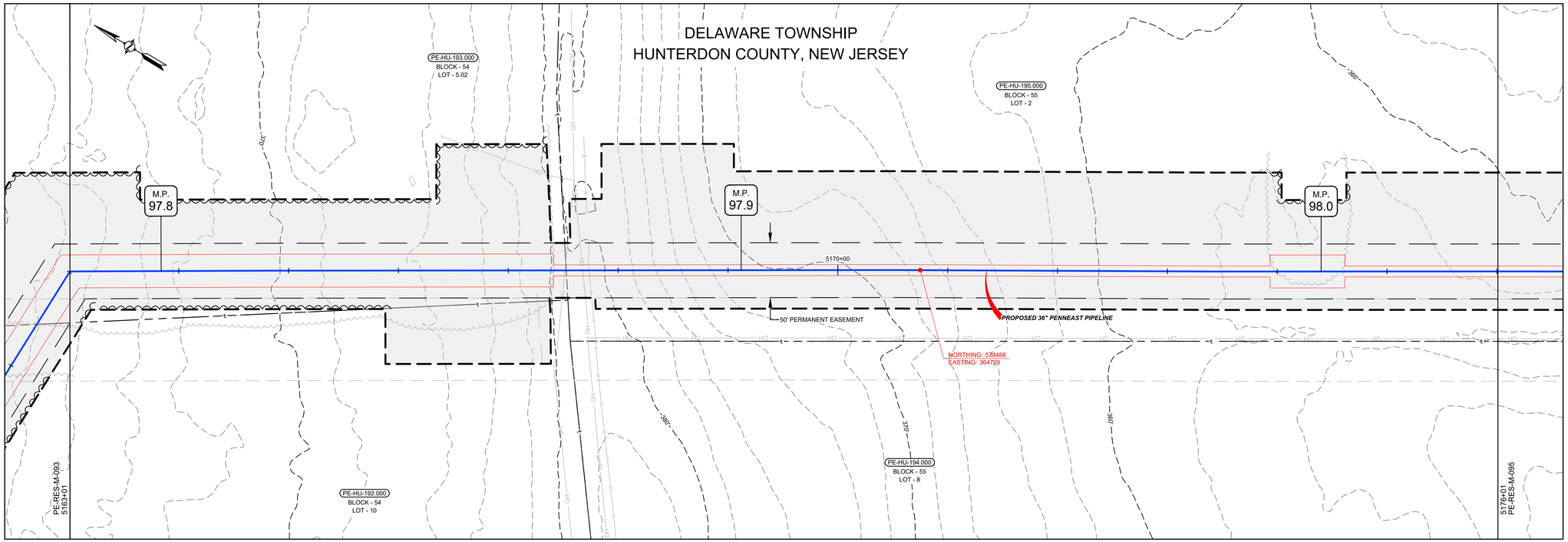
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 97.6R3 - MP 97.8

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-093	0



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AGRICULTURE RIPARIAN ZONE | AGRICULTURE RIPARIAN ZONE/TRANSITION AREA | AGRICULTURE TRANSITION AREA | UPLAND FOREST RIPARIAN ZONE | UPLAND FOREST RIPARIAN ZONE/TRANSITION AREA | UPLAND FOREST TRANSITION AREA | NATIVE GRASSLAND RIPARIAN ZONE | NATIVE GRASSLAND RIPARIAN ZONE/TRANSITION AREA | NATIVE GRASSLAND TRANSITION AREA | MAINTAINED LAWN RIPARIAN ZONE | MAINTAINED LAWN RIPARIAN ZONE/TRANSITION AREA | MAINTAINED LAWN TRANSITION AREA

GRAPHIC SCALE
50' 25' 0 50'
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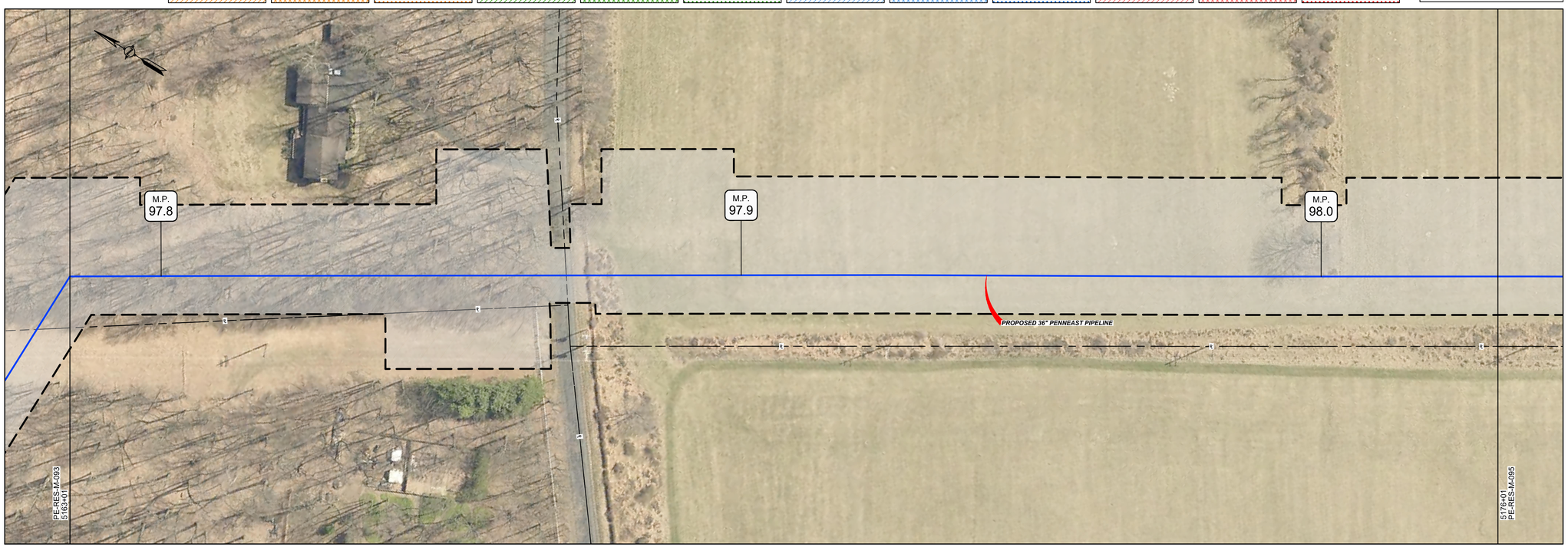

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NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE 7/2019

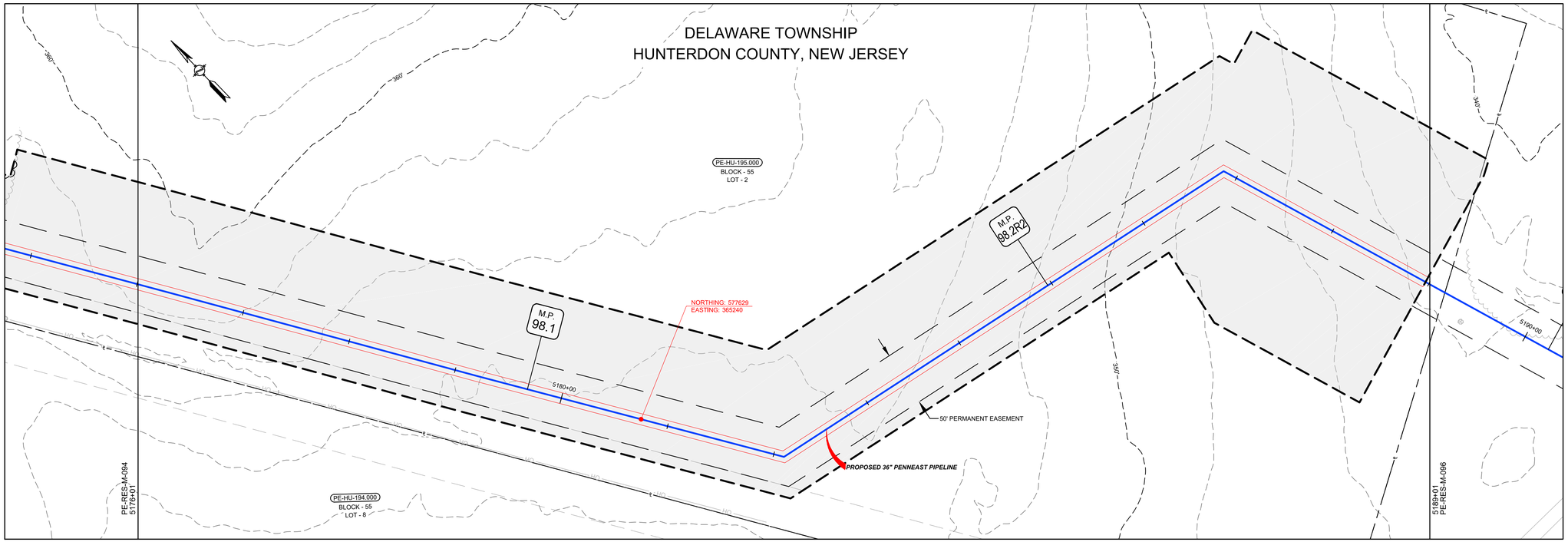
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 97.8 - MP 98.0

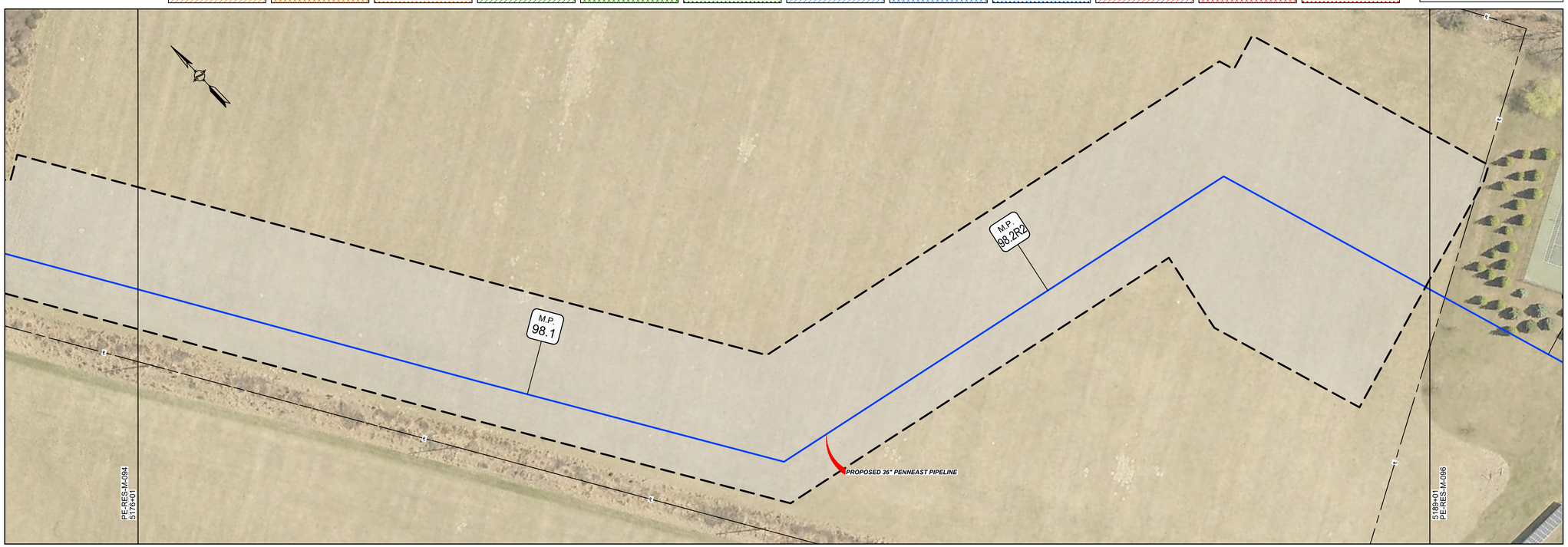
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-094	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

AGRICULTURE RIPARIAN ZONE	AGRICULTURE RIPARIAN ZONE/TRANSITION AREA	AGRICULTURE TRANSITION AREA	UPLAND FOREST RIPARIAN ZONE	UPLAND FOREST RIPARIAN ZONE/TRANSITION AREA	UPLAND FOREST TRANSITION AREA	NATIVE GRASSLAND RIPARIAN ZONE	NATIVE GRASSLAND RIPARIAN ZONE/TRANSITION AREA	NATIVE GRASSLAND TRANSITION AREA	MAINTAINED LAWN RIPARIAN ZONE	MAINTAINED LAWN RIPARIAN ZONE/TRANSITION AREA	MAINTAINED LAWN TRANSITION AREA

GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

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0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
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ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE

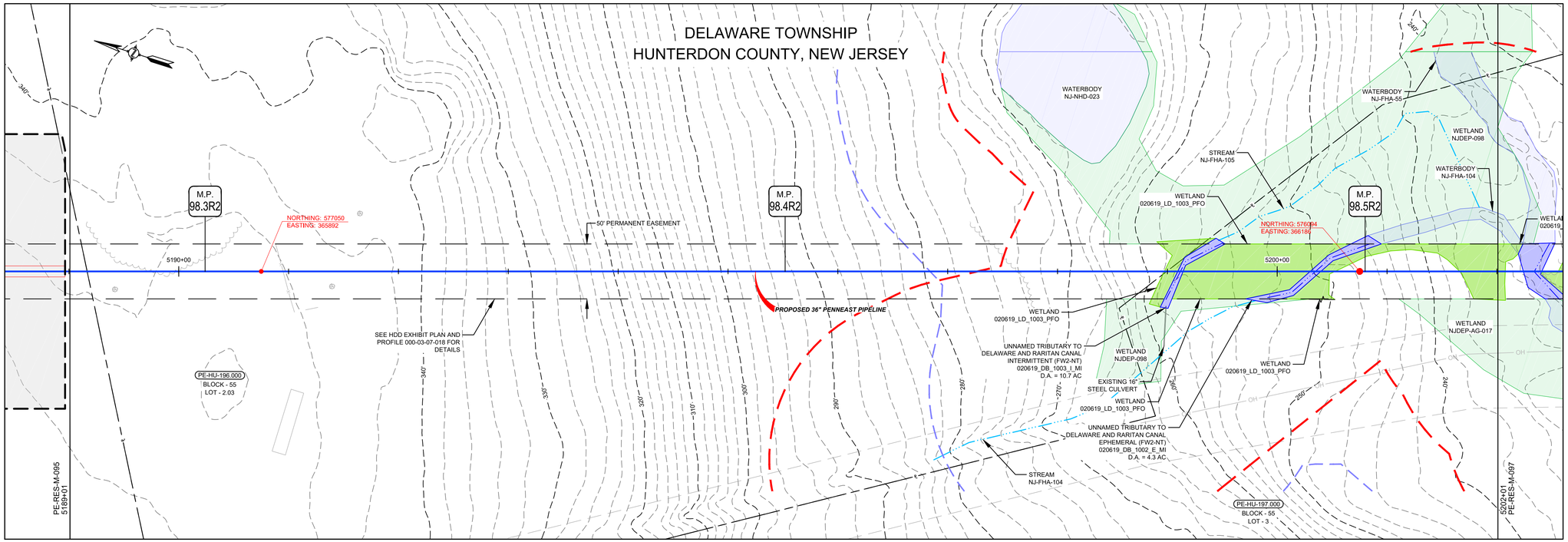
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 98.0 - MP 98.3R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-095	0



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GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'

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DWG. NO.	TITLE
000-03-07-018	* HDD EXHIBIT PLAN AND PROFILE

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

	DATE
DRAWN BY: RJP	7/2019
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ENG. APPROVAL: MJD	7/2019
P.M. APPROVAL: MW	7/2019

CLIENT APPROVAL — DATE

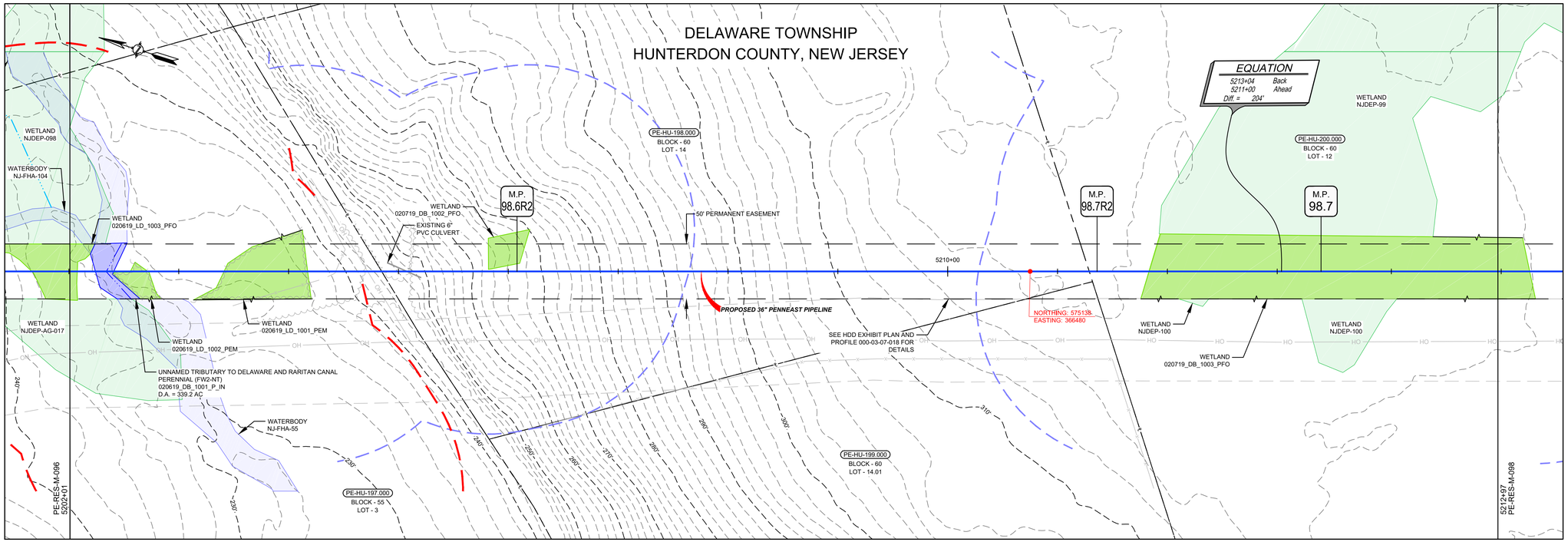
PREPARED FOR: PennEast Pipeline

PREPARED BY: MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 98.3R2 - MP 98.5R2

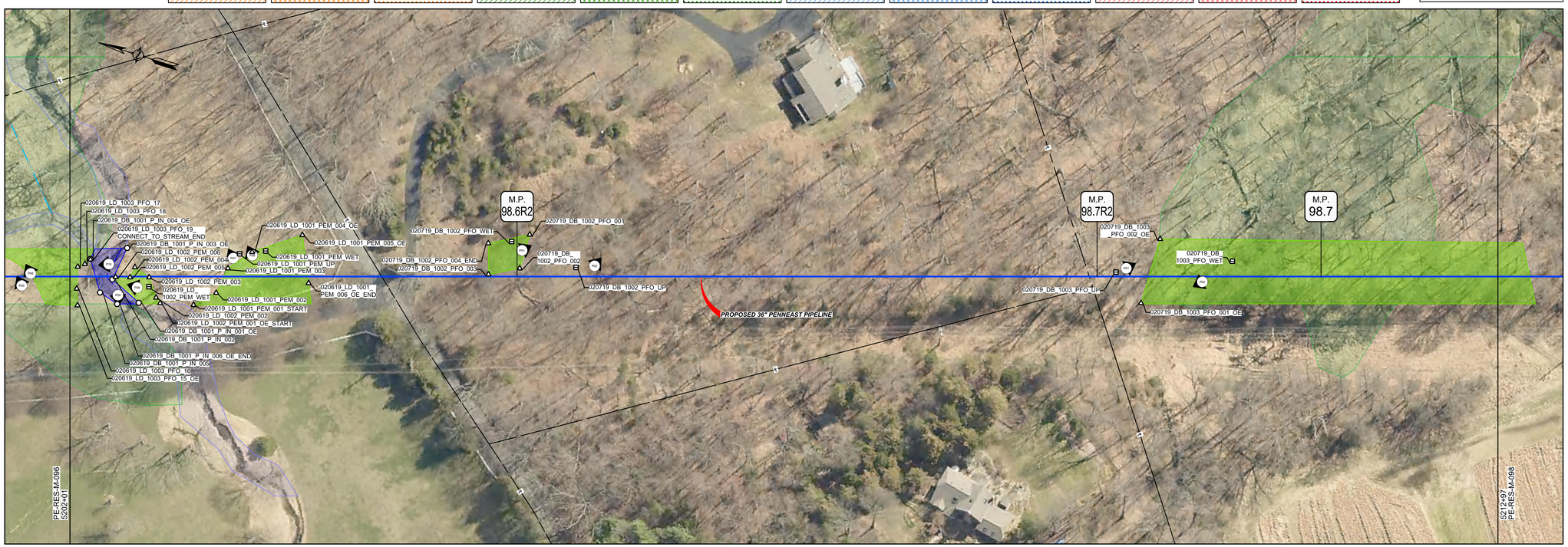
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-096	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

AGRICULTURE RIPARIAN ZONE	AGRICULTURE RIPARIAN ZONE/TRANSITION AREA	AGRICULTURE TRANSITION AREA	UPLAND FOREST RIPARIAN ZONE	UPLAND FOREST RIPARIAN ZONE/TRANSITION AREA	UPLAND FOREST TRANSITION AREA	NATIVE GRASSLAND RIPARIAN ZONE	NATIVE GRASSLAND RIPARIAN ZONE/TRANSITION AREA	NATIVE GRASSLAND TRANSITION AREA	MAINTAINED LAWN RIPARIAN ZONE	MAINTAINED LAWN RIPARIAN ZONE/TRANSITION AREA	MAINTAINED LAWN TRANSITION AREA

GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- LB-HU-A001.000 — PARCEL ID WITH BLOCK AND LOT NUMBER (BLOCK - 1, LOT - 10.00)
- EXISTING CULVERT
- CPP — CORRUGATED PLASTIC PIPE
- CMP — CORRUGATED METAL PIPE
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- PVC — POLYVINYL CHLORIDE PIPE
- RCP — REINFORCED CONCRETE PIPE
- UNK — UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260' — EXISTING MAJOR CONTOURS
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- EXISTING TREE
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- WETLAND FLAG NO — WETLAND FLAG
- SAMPLE STATION — SAMPLE STATION
- SOW_FLAG_NO — STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

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DWG. NO.	TITLE
000-03-07-018	* HDD EXHIBIT PLAN AND PROFILE

REVISIONS

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0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
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CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE 7/2019

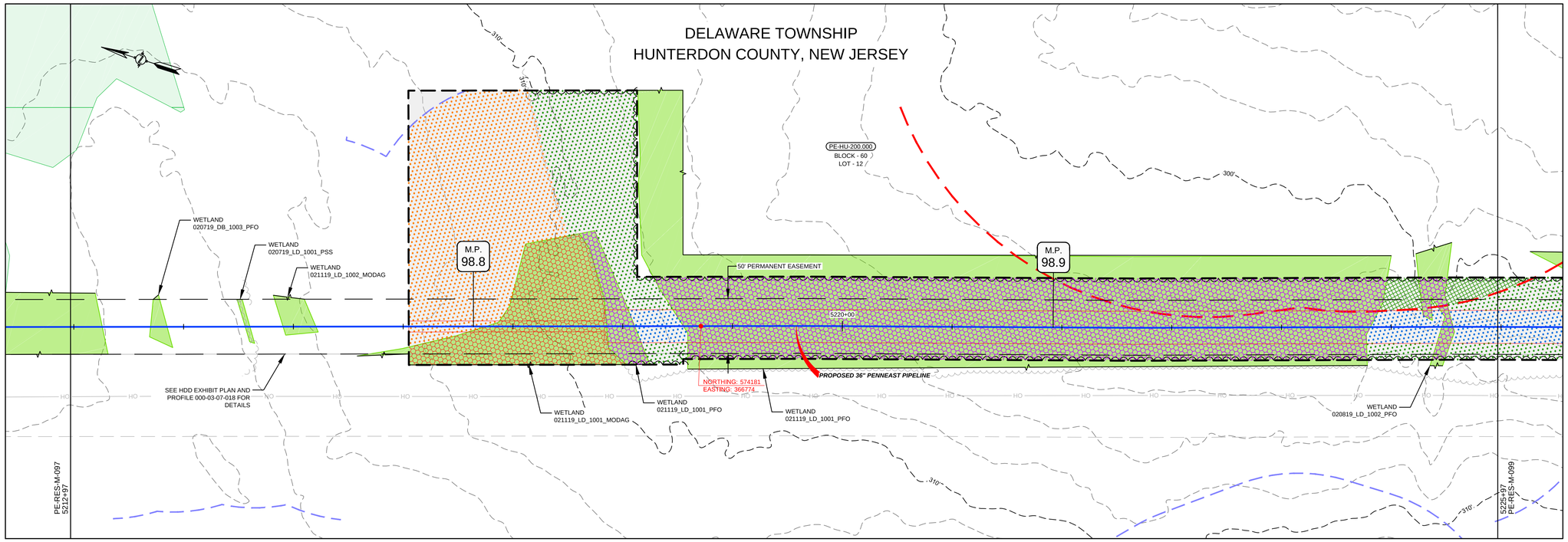
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 98.5R2 - MP 98.7

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-097	0



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GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'

LEGEND

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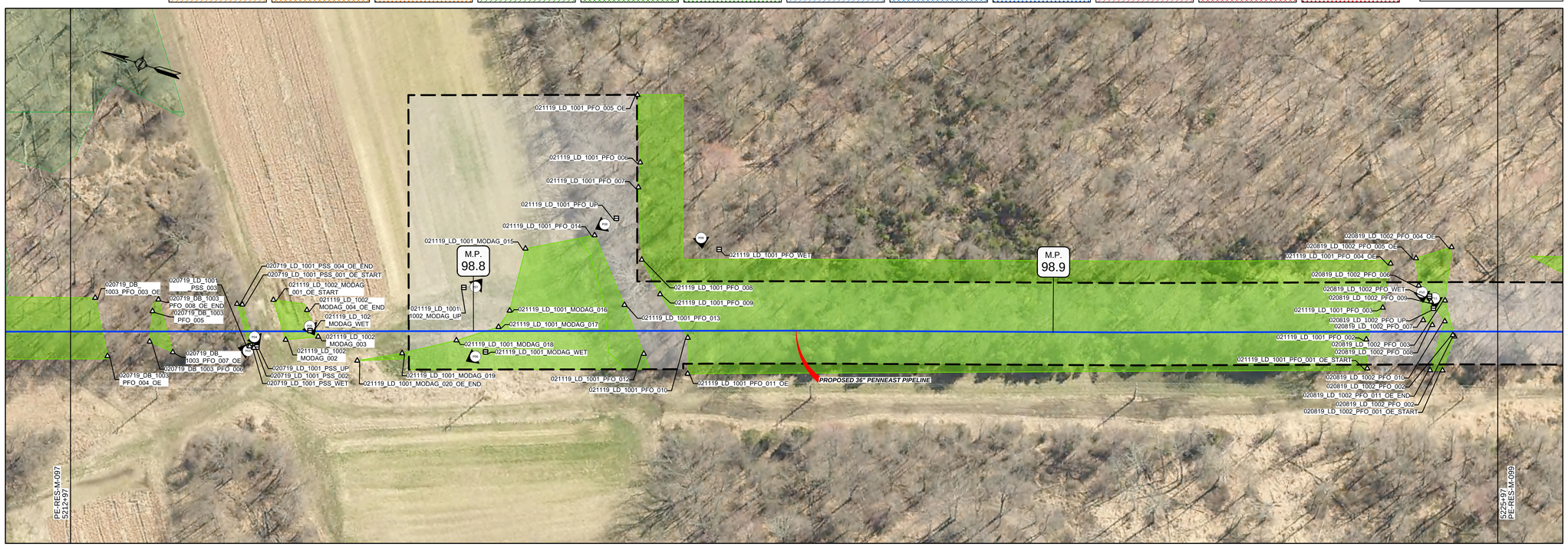

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000-03-07-018	* HDD EXHIBIT PLAN AND PROFILE

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0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

	DATE
DRAWN BY: RJP	7/2019
CHECKED BY: KEK	7/2019
ENG. APPROVAL: MJD	7/2019
P.M. APPROVAL: MW	7/2019

CLIENT APPROVAL — DATE

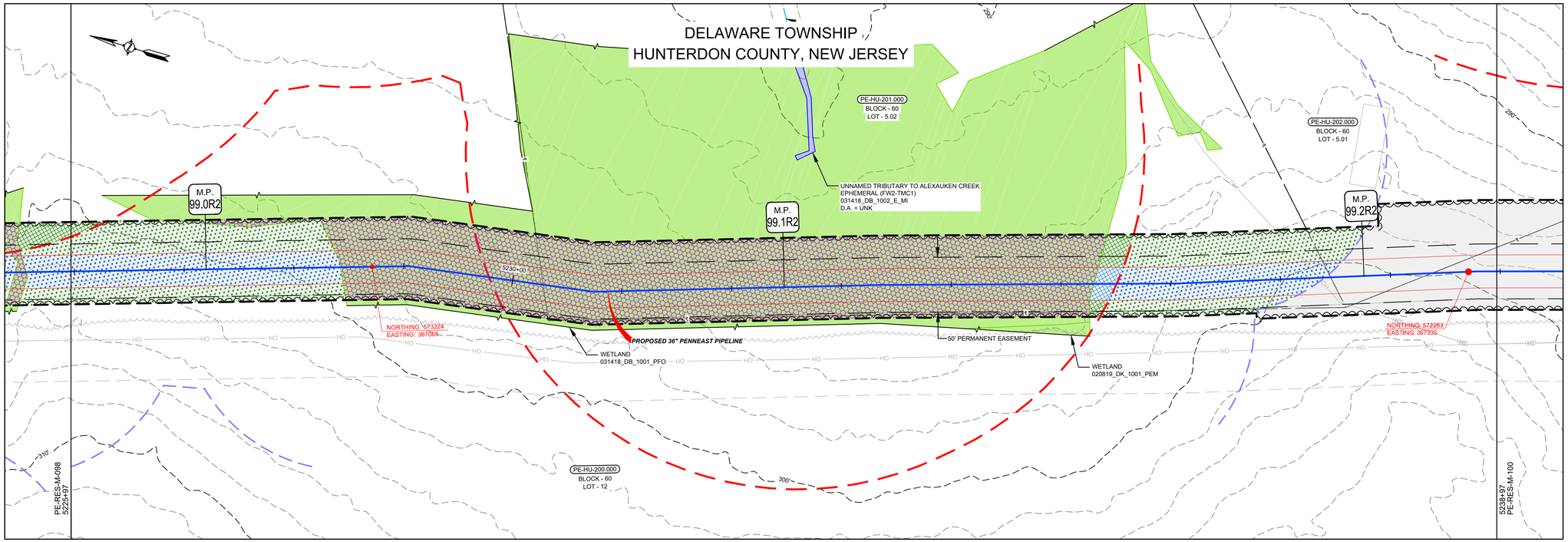
PREPARED FOR: PennEast PIPELINE

PREPARED BY: MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 98.7 - MP 99.0R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-098	0



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GRAPHIC SCALE
50' 25' 0 50'
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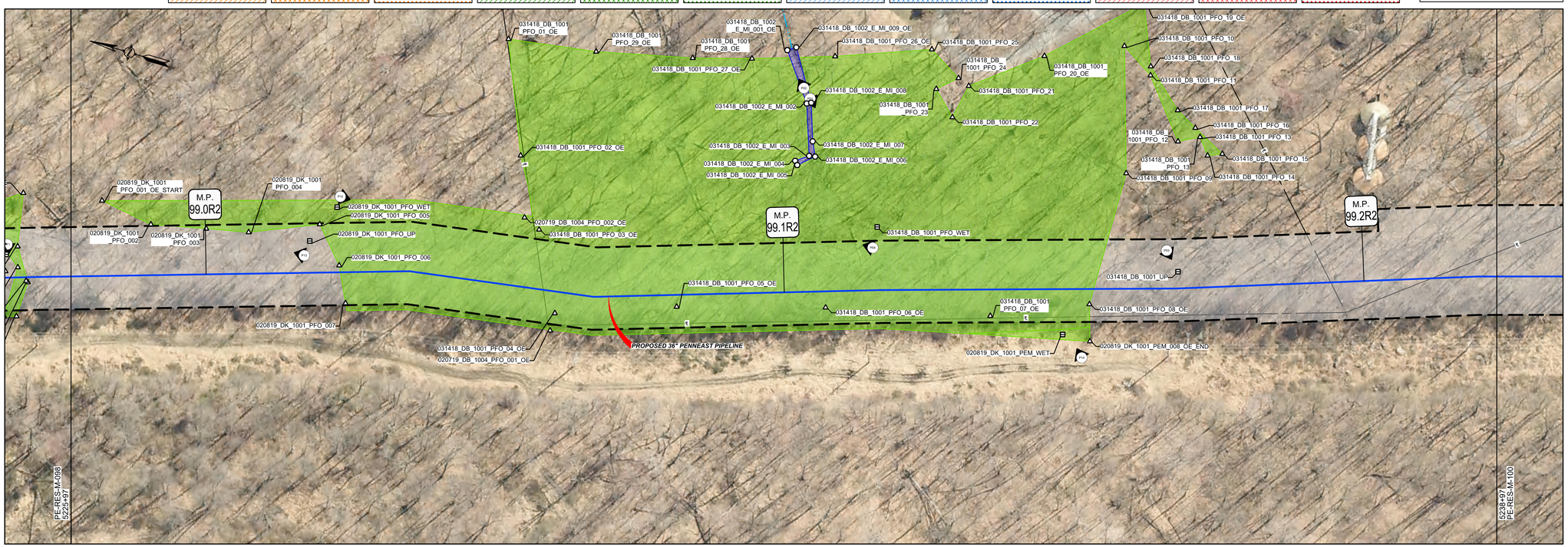

LEGEND

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PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
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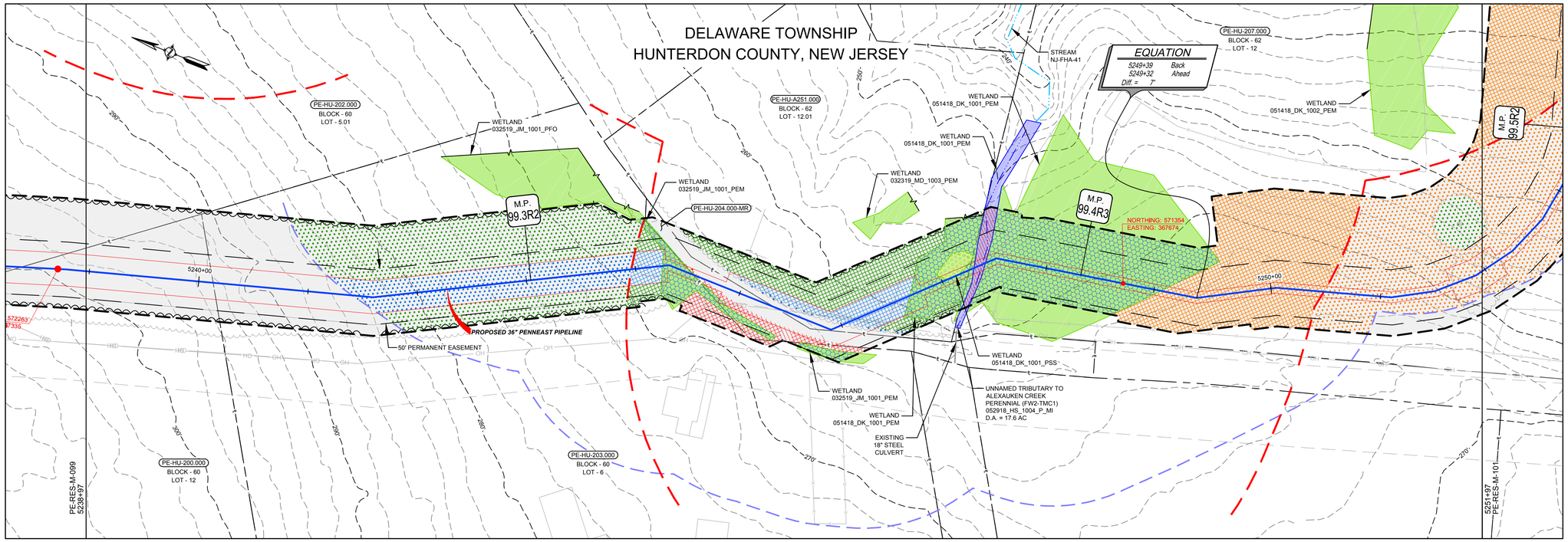
PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 99.0R2 - MP 99.2R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-099	0



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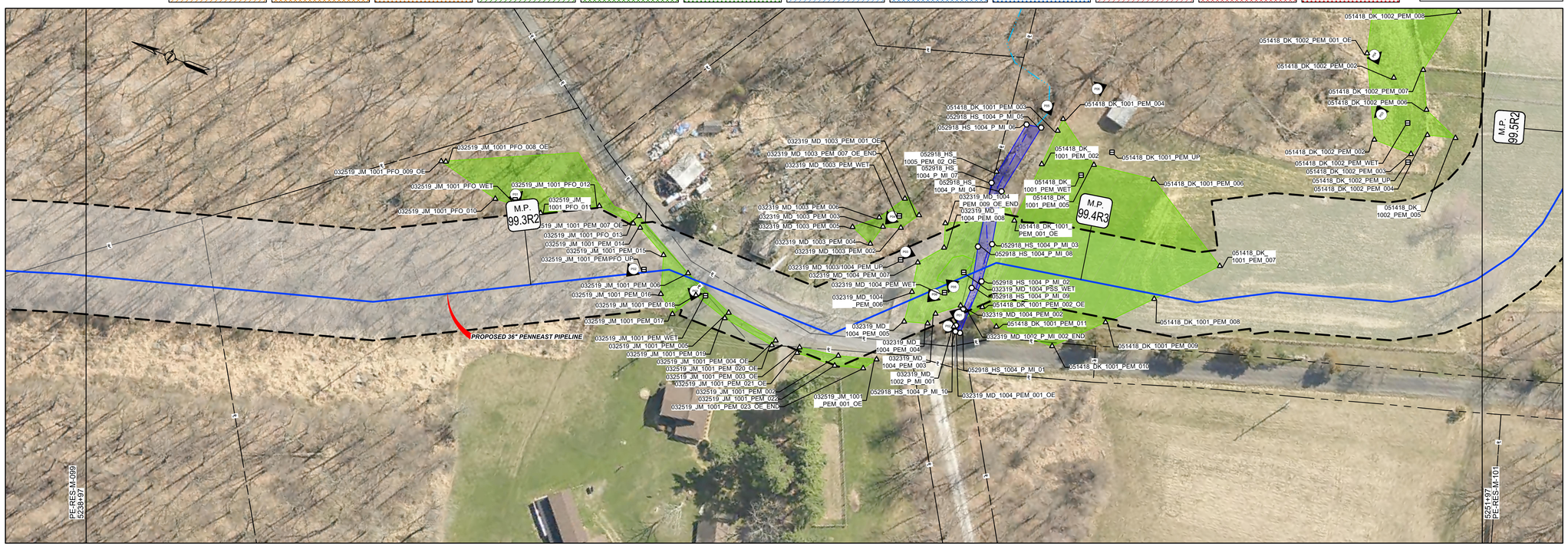

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CLIENT APPROVAL	DATE 7/2019

PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 99.2R2 - MP 99.5R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-100	0