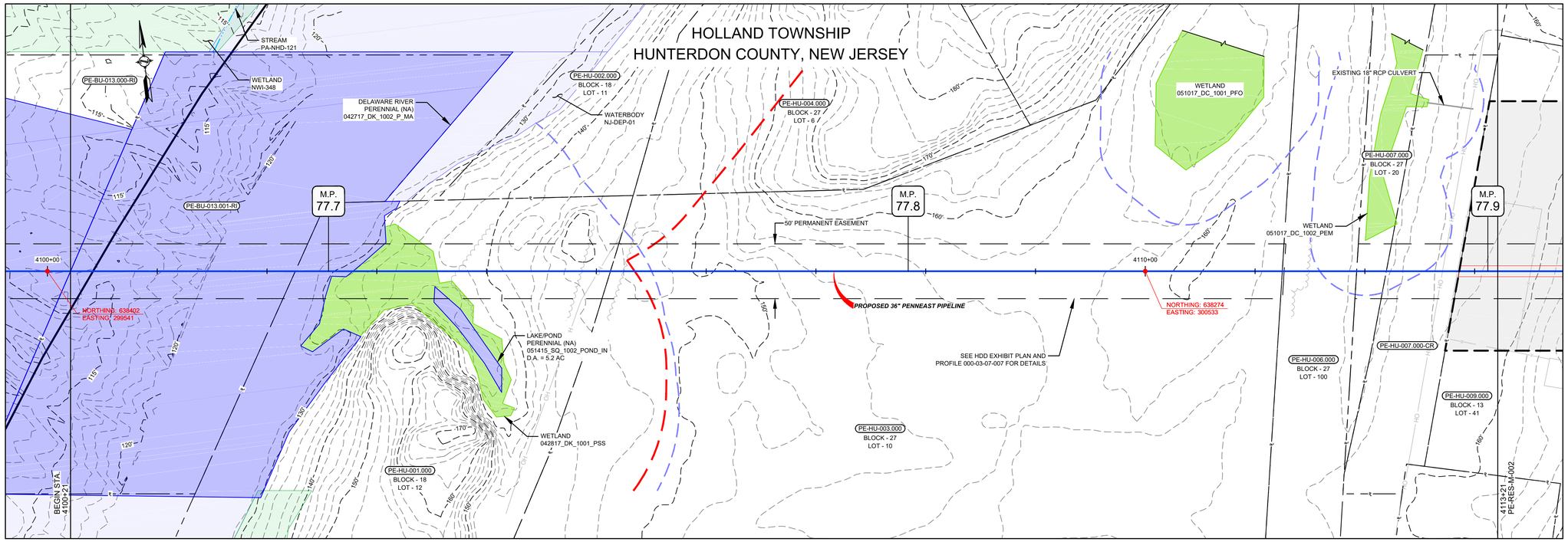

RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

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:

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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
000-03-07-007	* 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
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL
DATE
7/2019

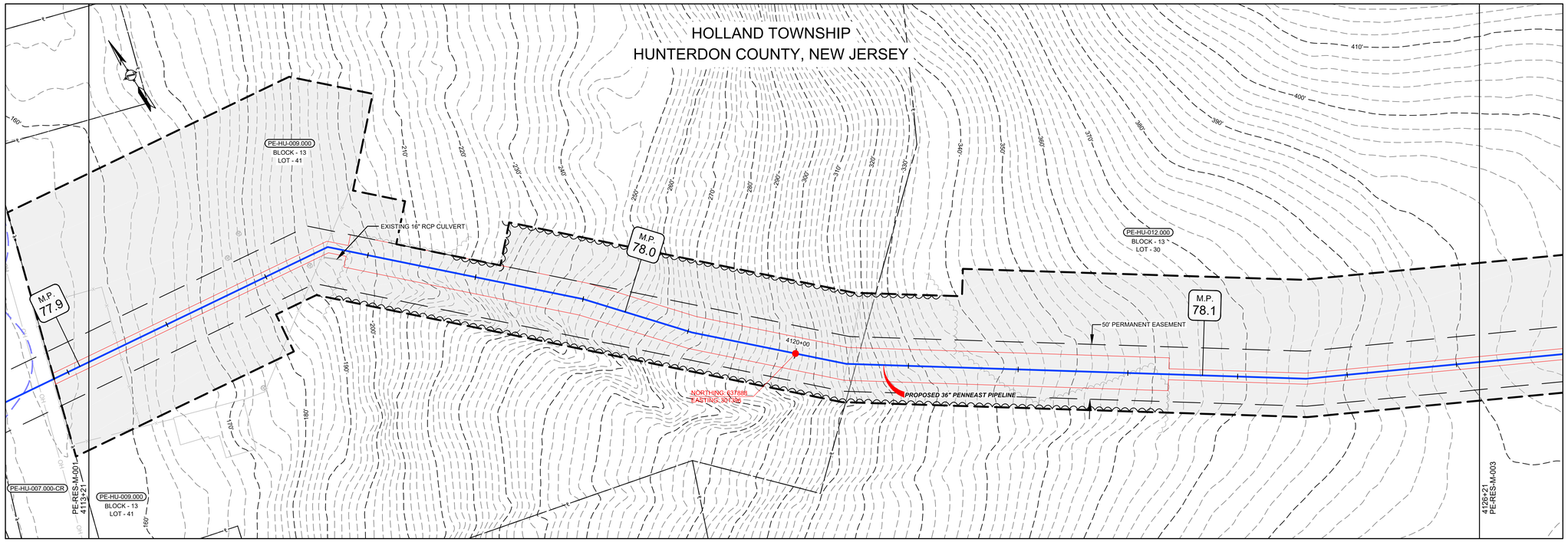
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 77.7 - MP 77.9

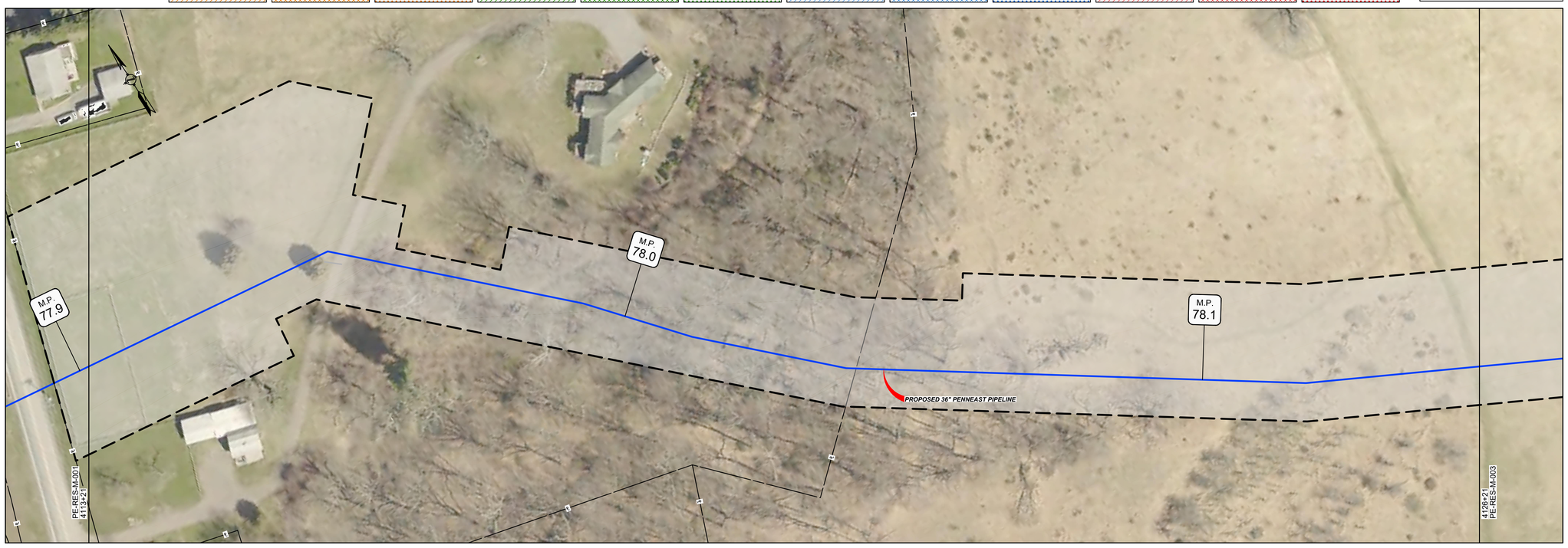
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-001	0



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'



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- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
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- WETLAND (SURVEYED)
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- EXISTING TREE
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- PHOTO LOCATION (SEE REPORT)

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N.J. LIC. NO. 24GS03676100

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

SIGNATURE — DATE 08/01/2019

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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

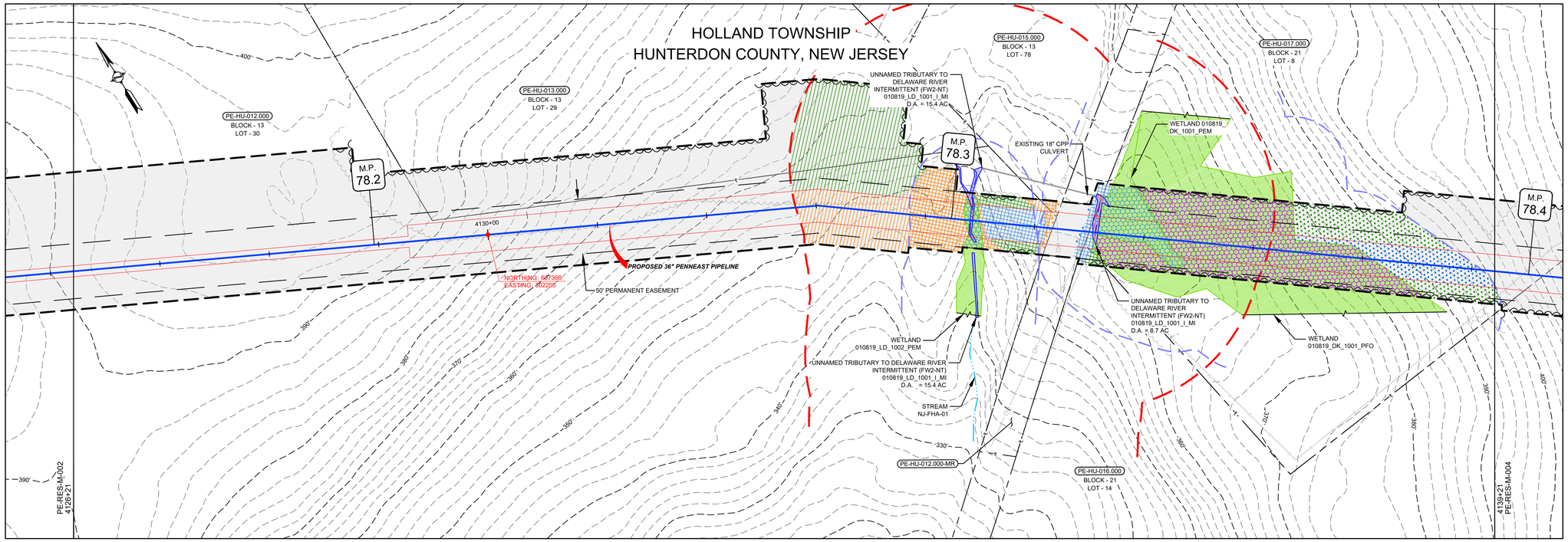
PREPARED FOR
PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 77.9 - MP 78.1

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-002	0



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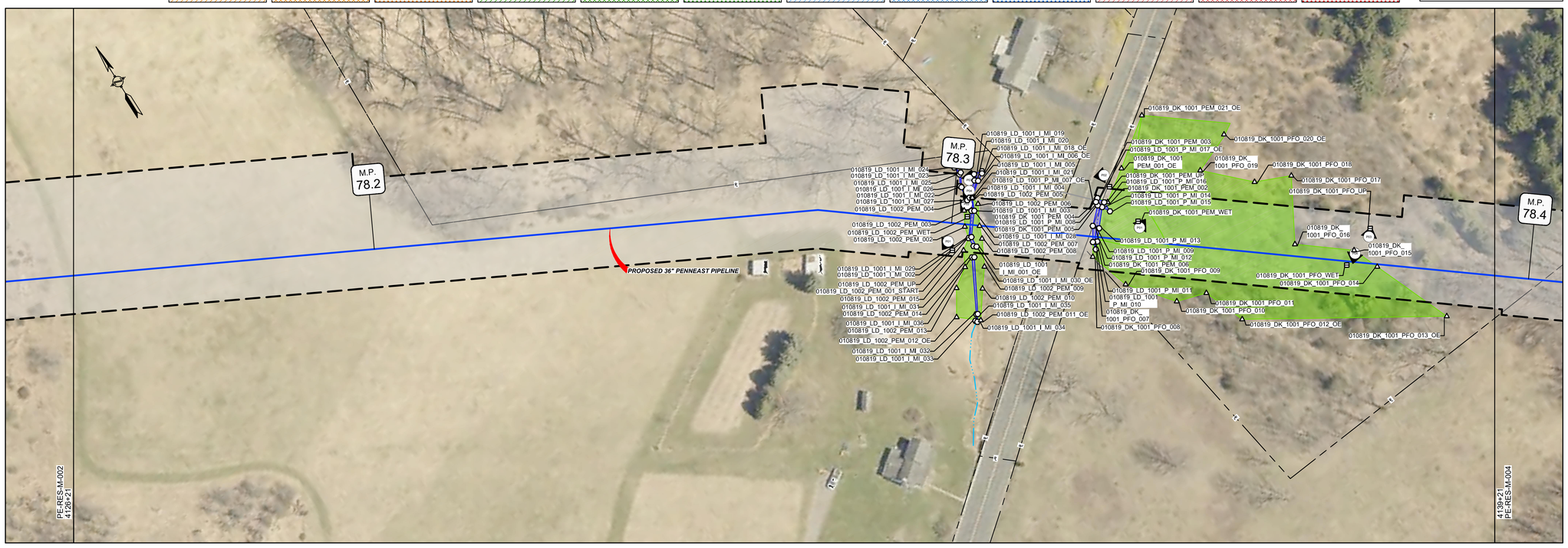
GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



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- SAMPLE STATION — SAMPLE STATION
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- PHOTO LOCATION (SEE REPORT)

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N.J. LIC. NO. 24GS03676100

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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 7/2019

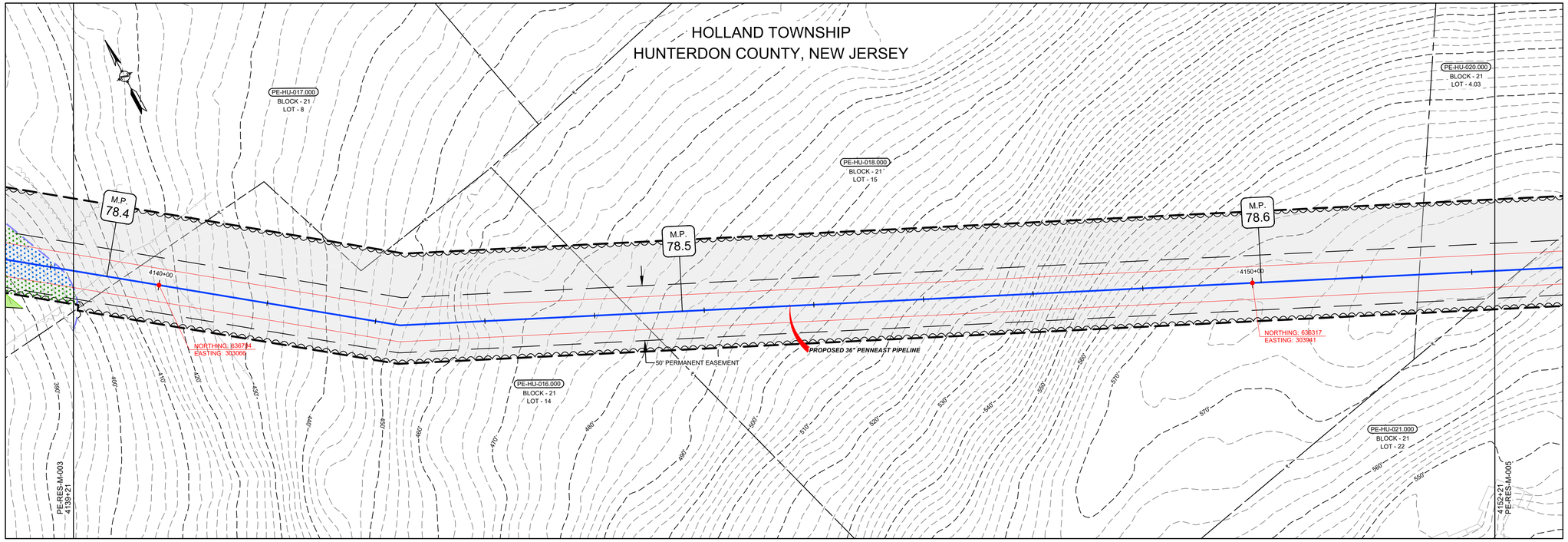
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 78.1 - MP 78.4

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-003	0



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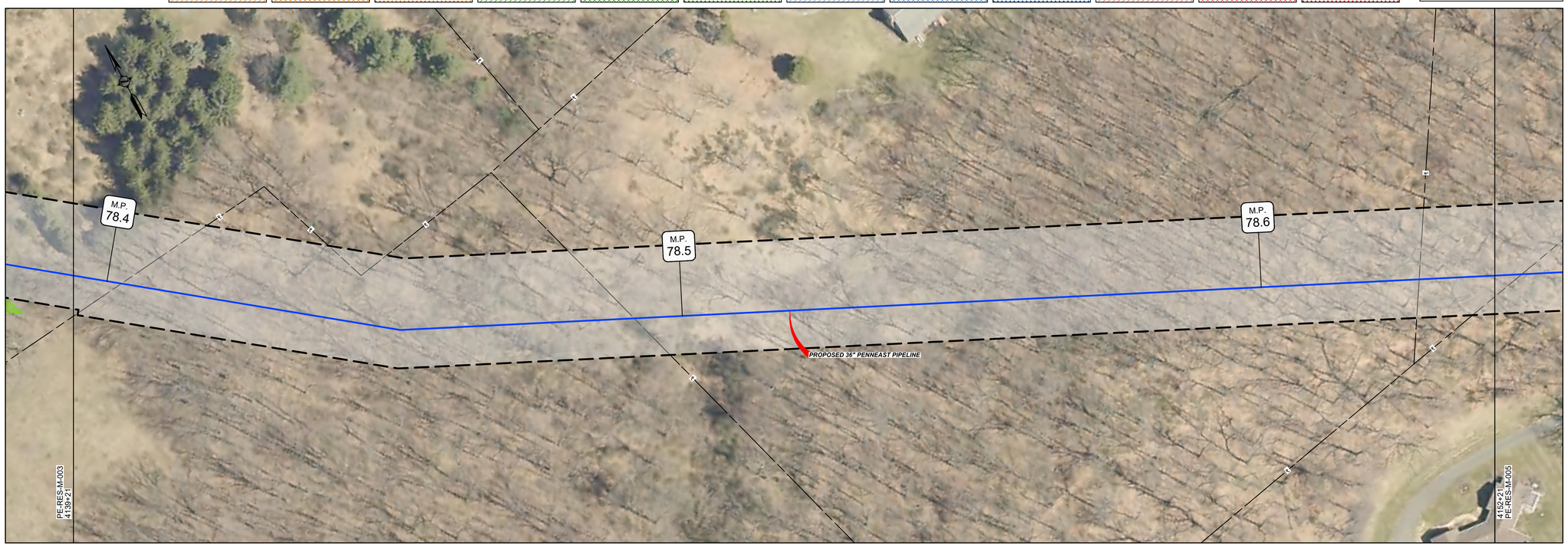
GRAPHIC SCALE

50' 25' 0 50'

SCALE: 1" = 50'



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CLIENT APPROVAL

DATE

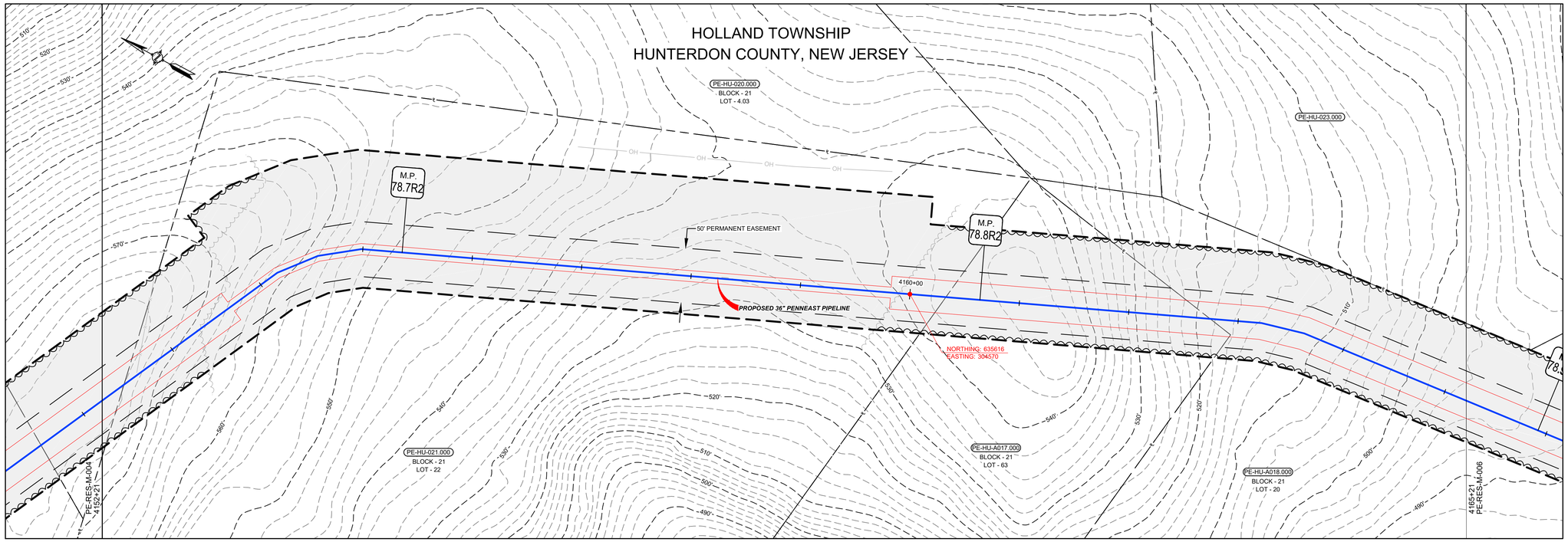
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 78.4 - MP 78.6

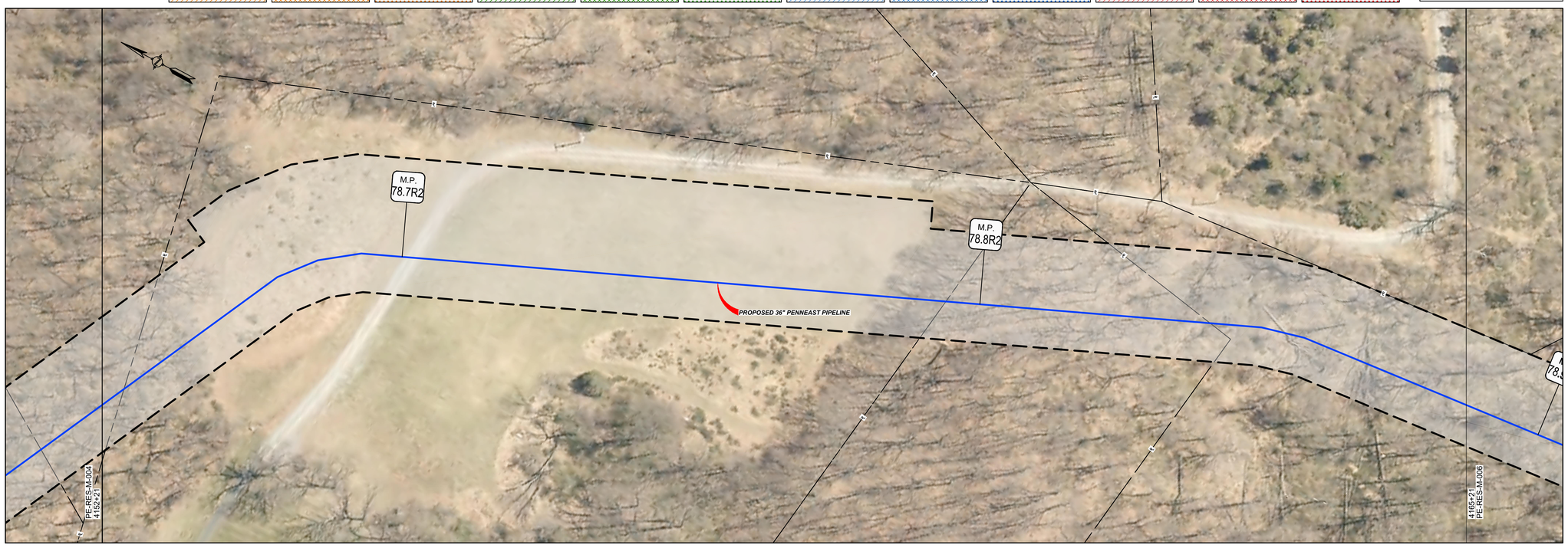
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-004	0



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*

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

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.

MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG 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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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 7/2019

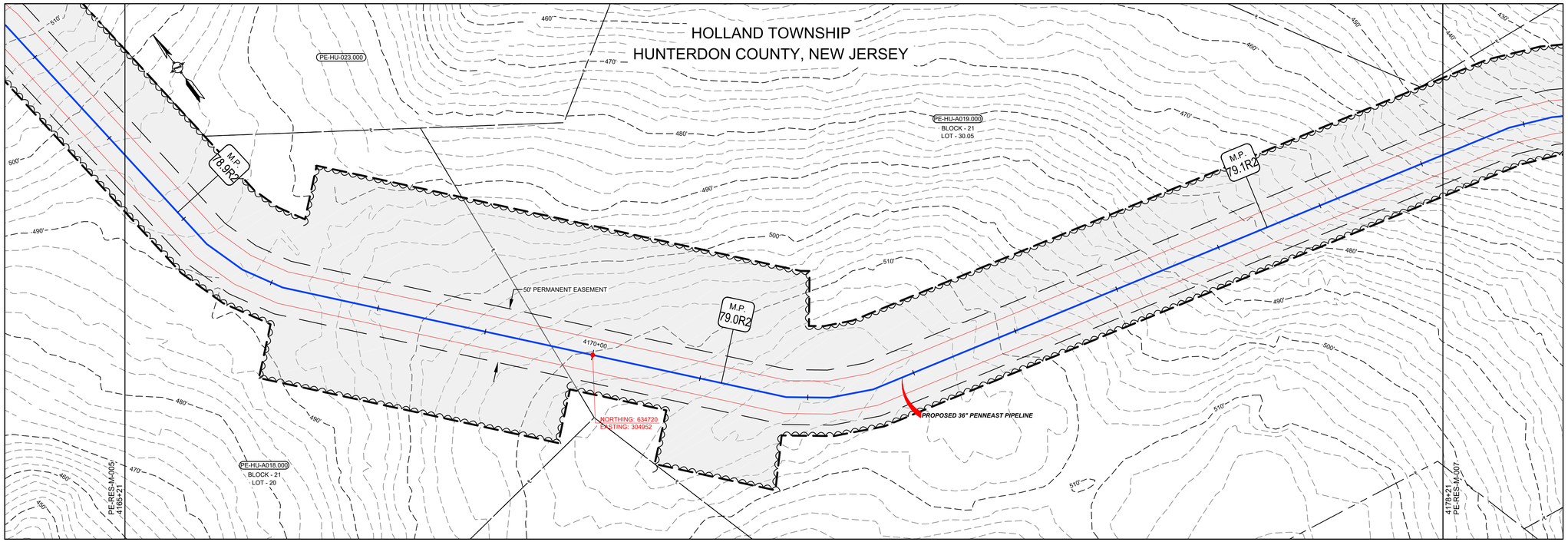
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 78.6 - MP 78.9R2

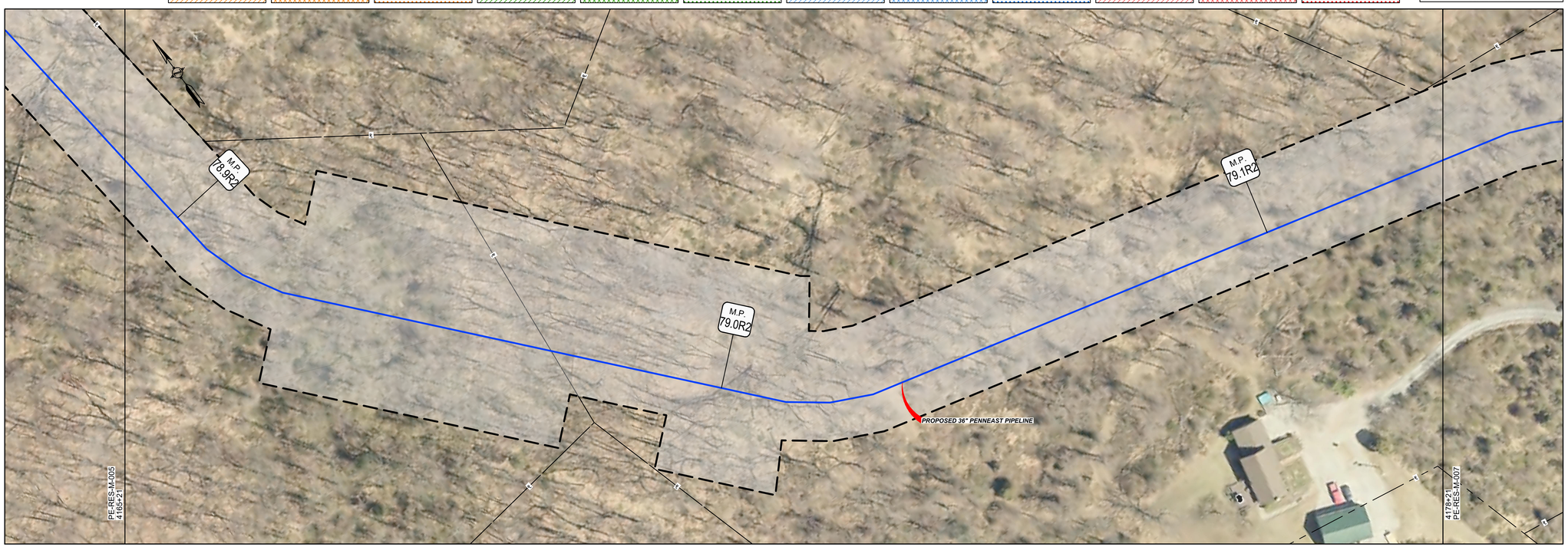
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-005	0



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)
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- WATERBODY (PUBLIC)
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- SOW_FLAG_NO — STATE OPEN WATER FLAG
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PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

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

SIGNATURE — DATE 08/01/2019

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REVISIONS

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

APPROVALS

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

CLIENT APPROVAL — DATE

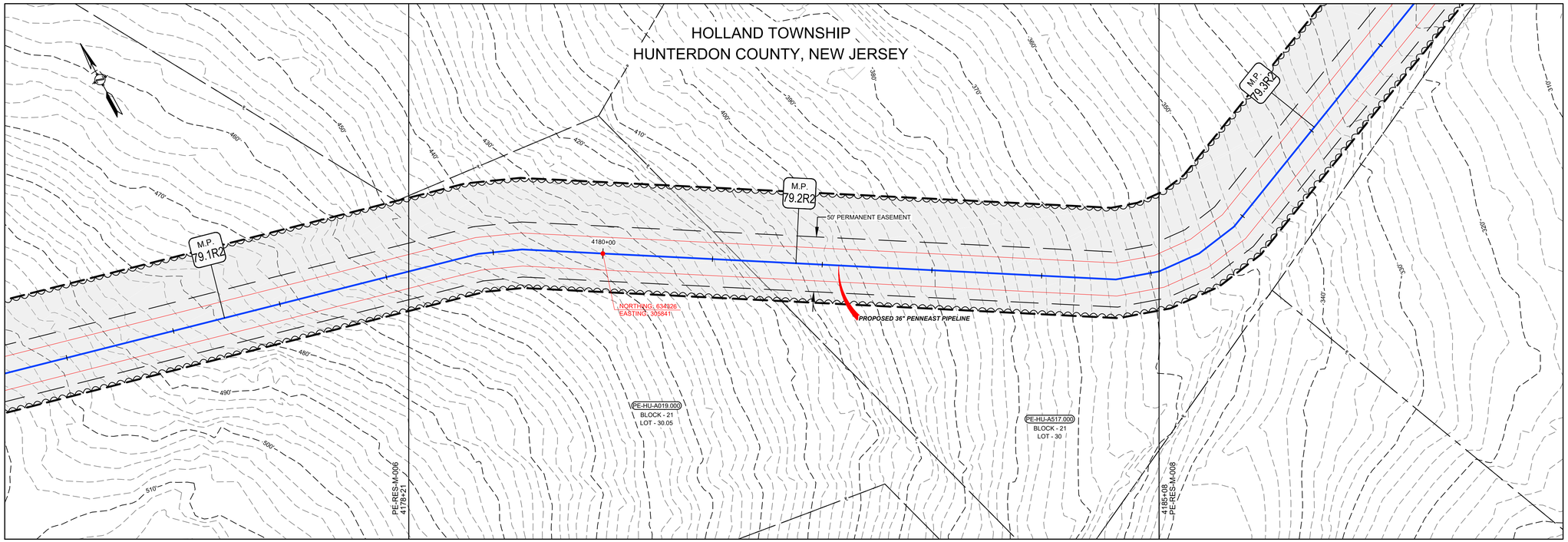
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 78.9R2 - MP 79.1R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-006	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)
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- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
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- 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
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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)

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N.J. LIC. NO. 24GS03676100

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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 7/2019

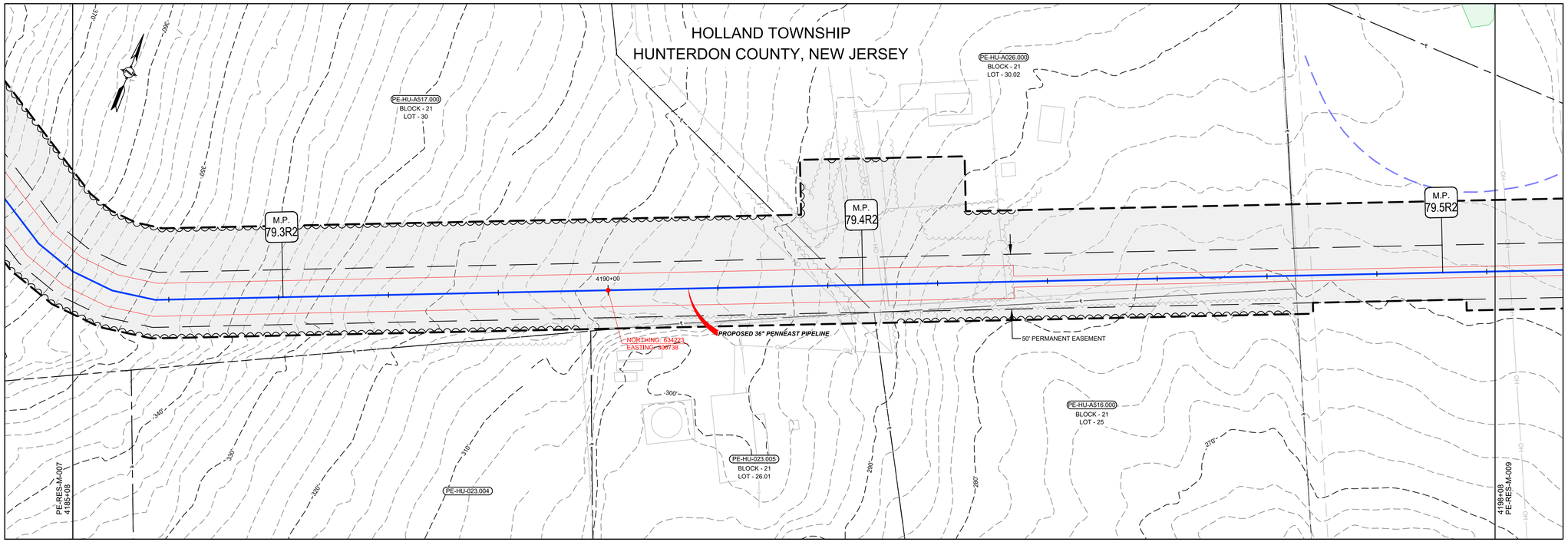
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 79.1R2 - MP 79.3R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-007	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
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DRAWN BY	DATE
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CLIENT APPROVAL — DATE 7/2019

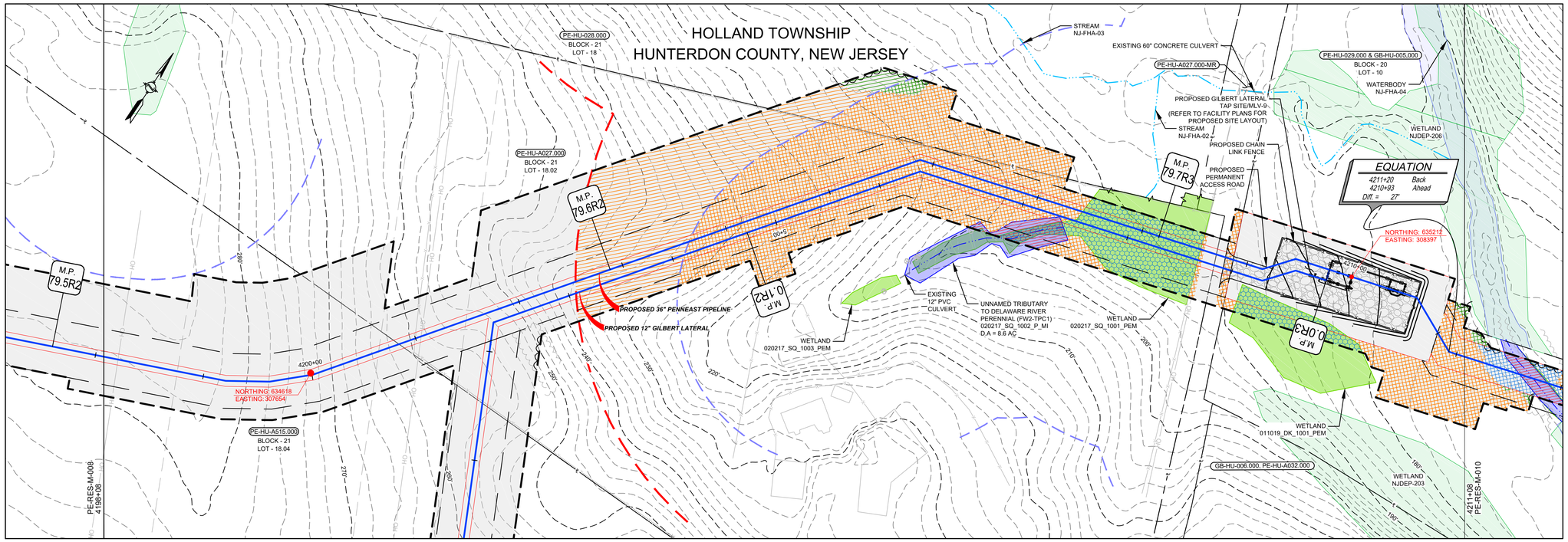
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 79.3R2 - MP 79.5R2

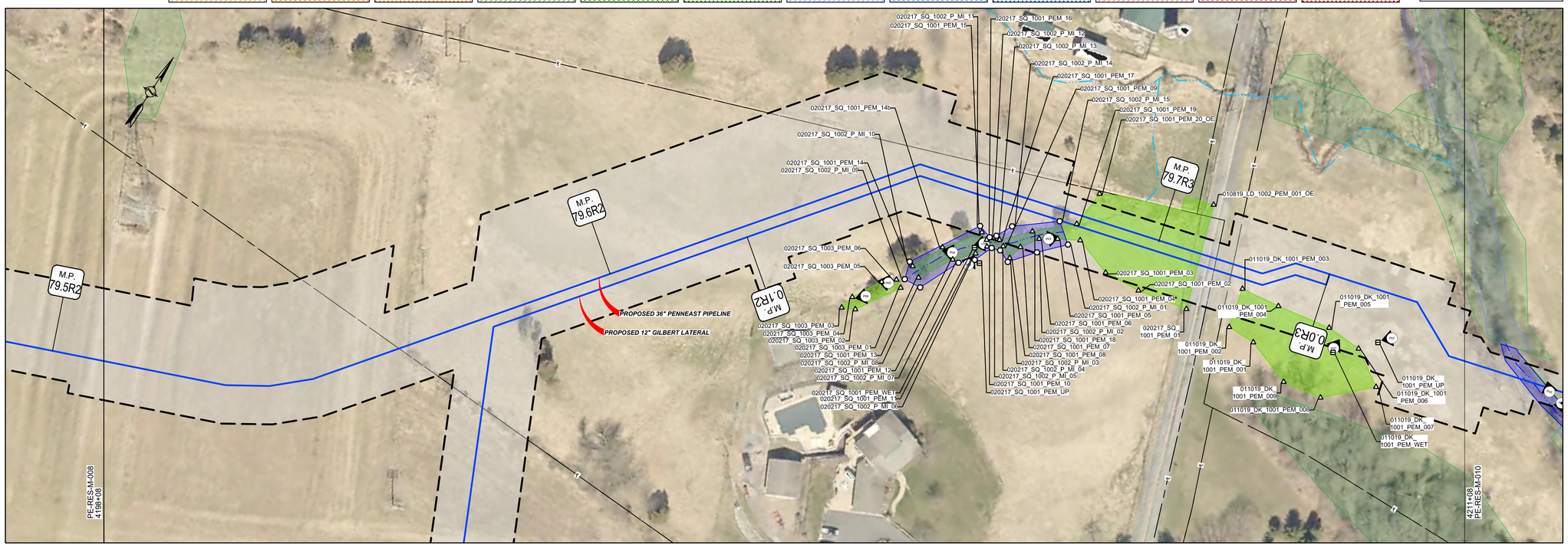
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-008	0



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

SIGNATURE — DATE 08/01/2019

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REFERENCE DRAWINGS

DWG. NO.	TITLE
025A-03-03-003	* GILBERT LATERAL TAP SITE/MAINLINE BLOCK VALVE 9

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 7/2019

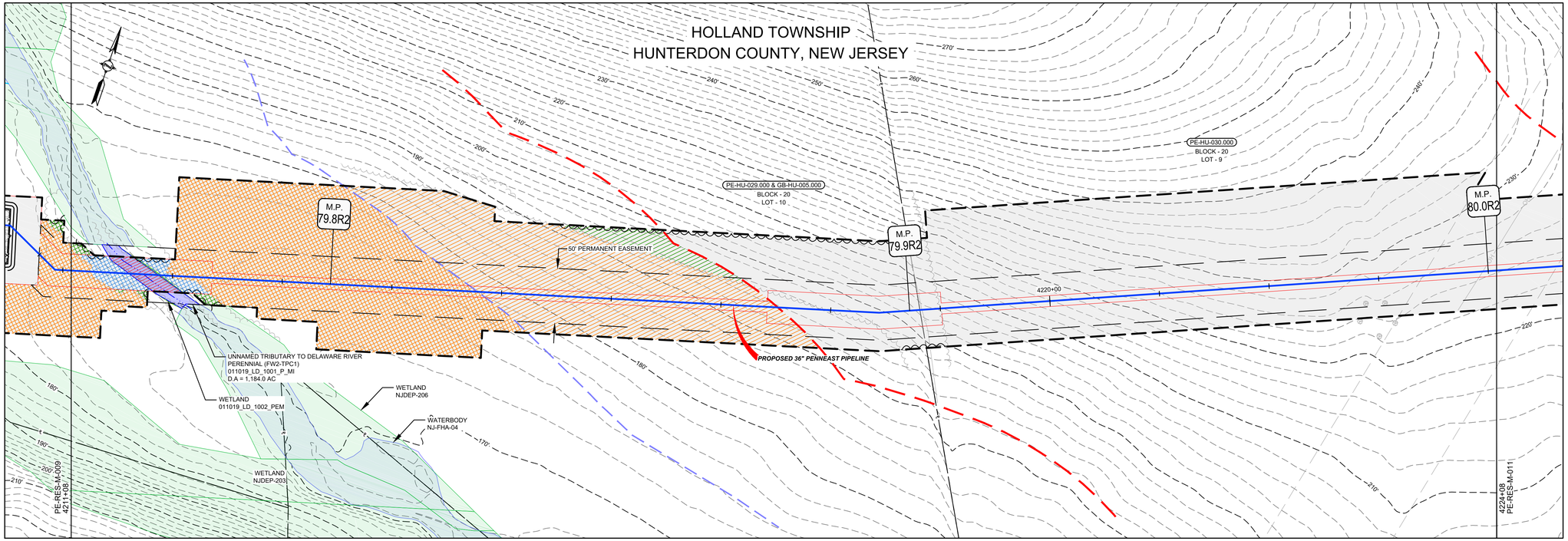
PREPARED FOR: PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 79.5R2 - MP 79.8R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-009	0



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GRAPHIC SCALE
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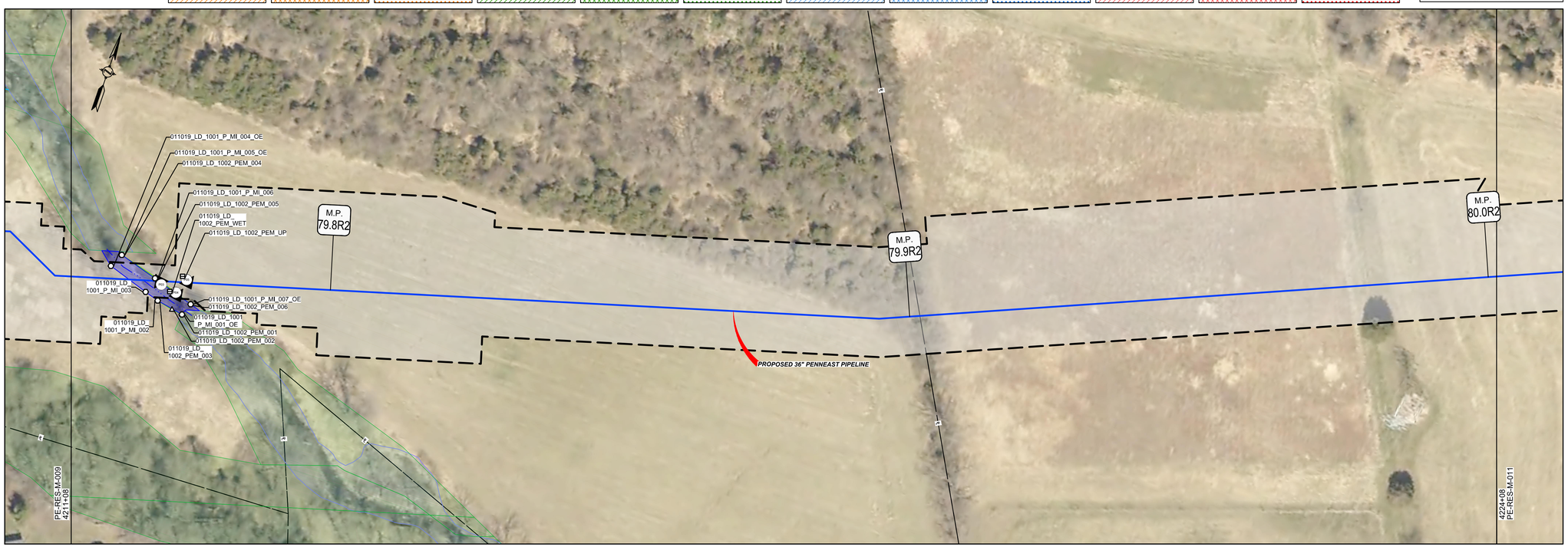

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REFERENCE DRAWINGS

DWG. NO.	TITLE

REVISIONS

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

APPROVALS

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

CLIENT APPROVAL — DATE

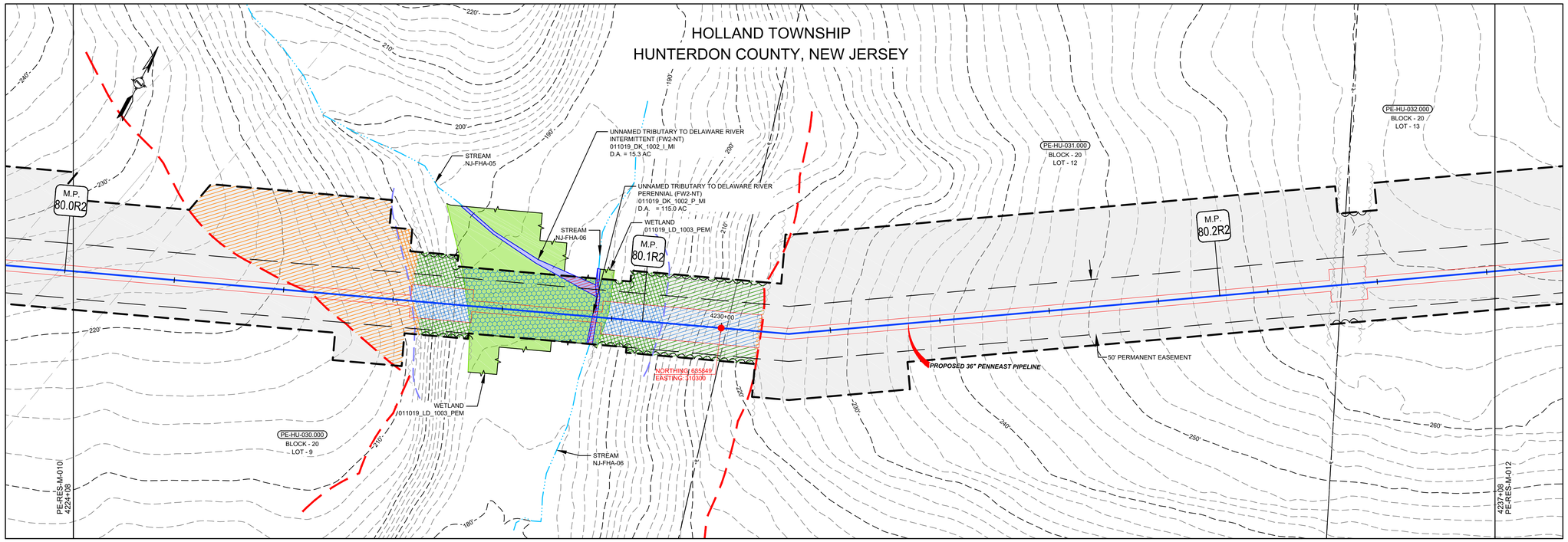
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 79.8R2 - MP 80.0R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-010	0



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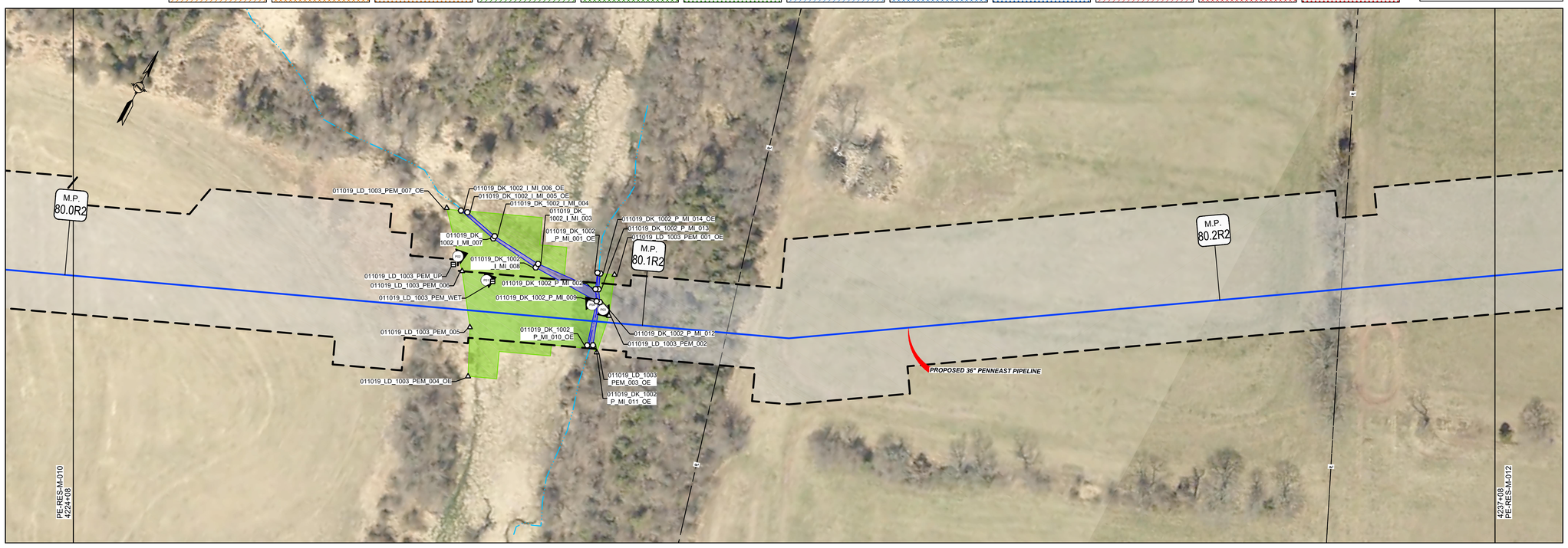
GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

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N.J. LIC. NO. 24GS03676100

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0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

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P.M. APPROVAL: MW	7/2019

CLIENT APPROVAL — DATE

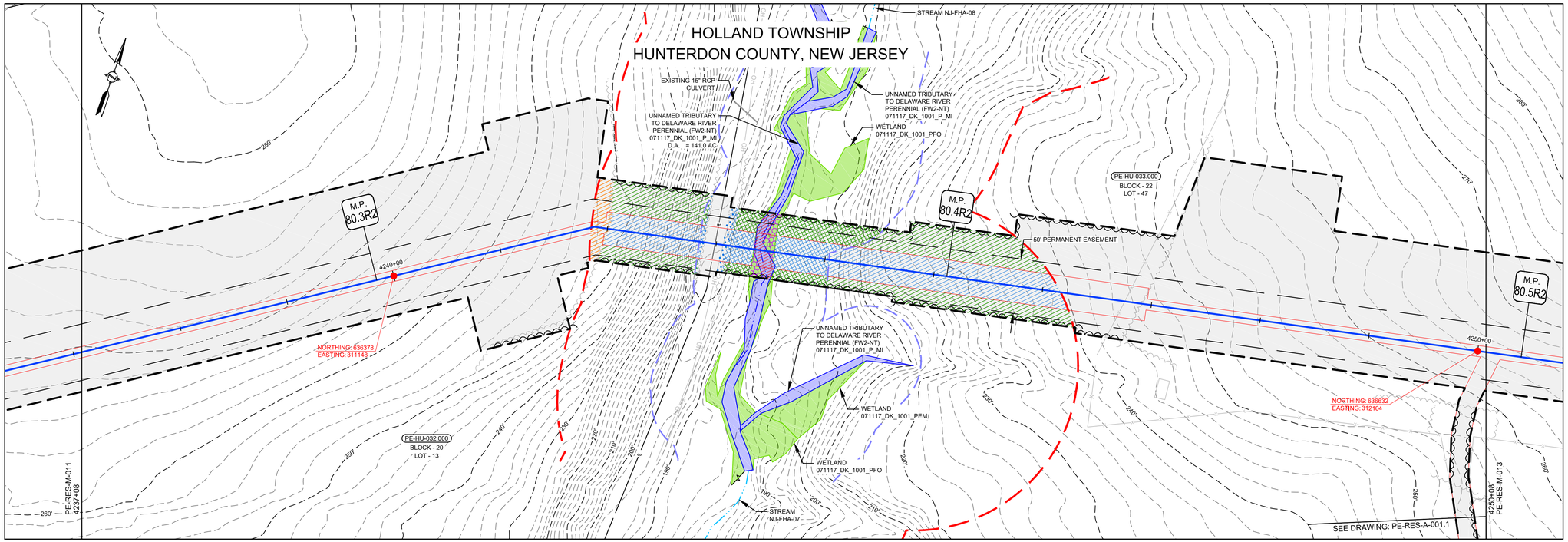
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 80.0R2 - MP 80.2R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-011	0



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GRAPHIC SCALE
50' 25' 0 50'
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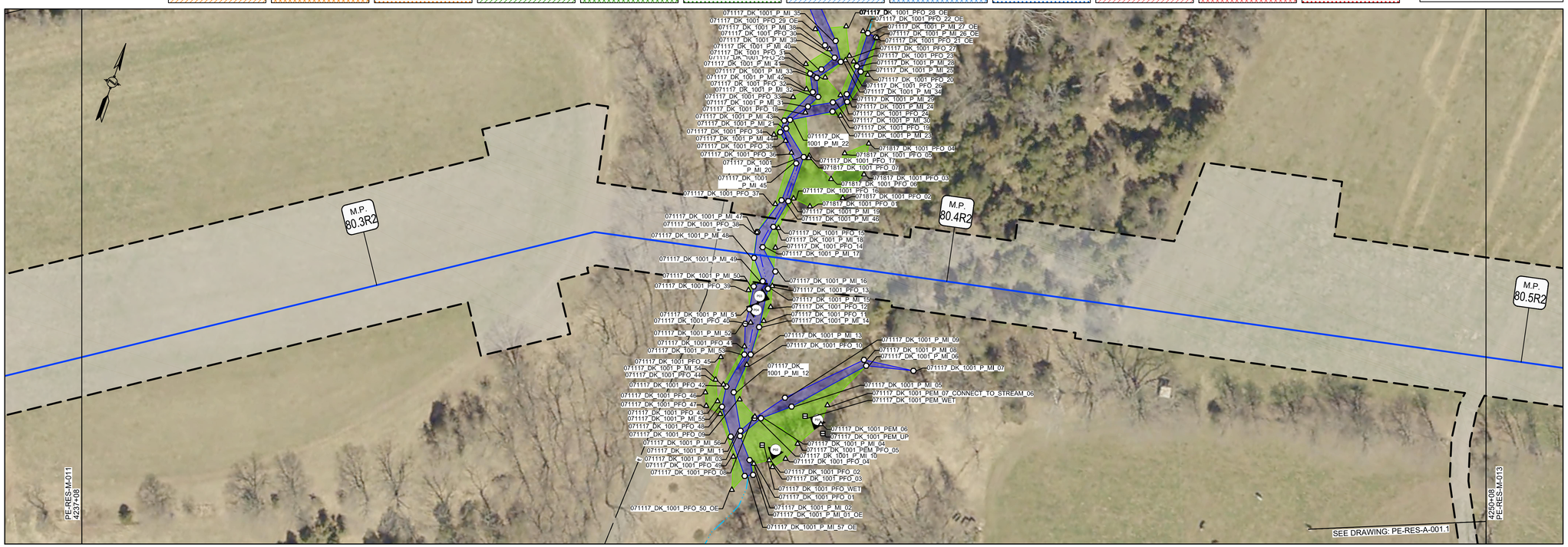

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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-03-059	* ACCESS ROAD DETAIL

REVISIONS

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0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

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CLIENT APPROVAL — DATE 7/2019

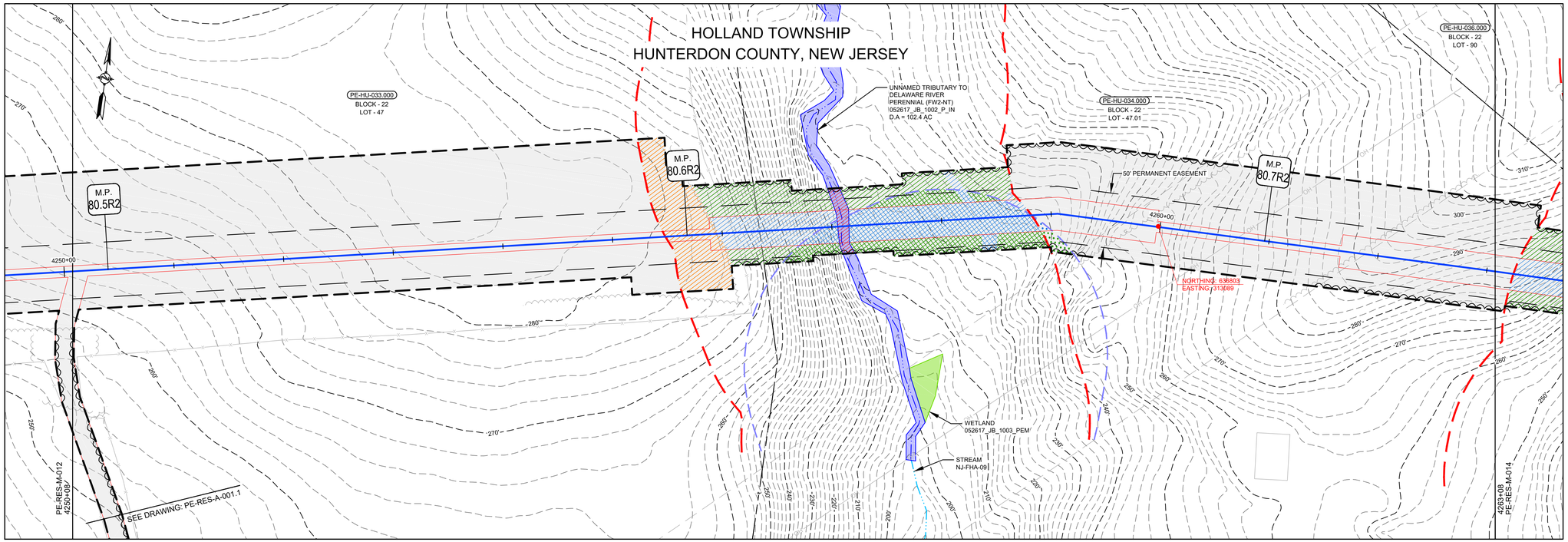
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 80.2R2 - MP 80.5R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-012	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*

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

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I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

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
000-03-03-059	* 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

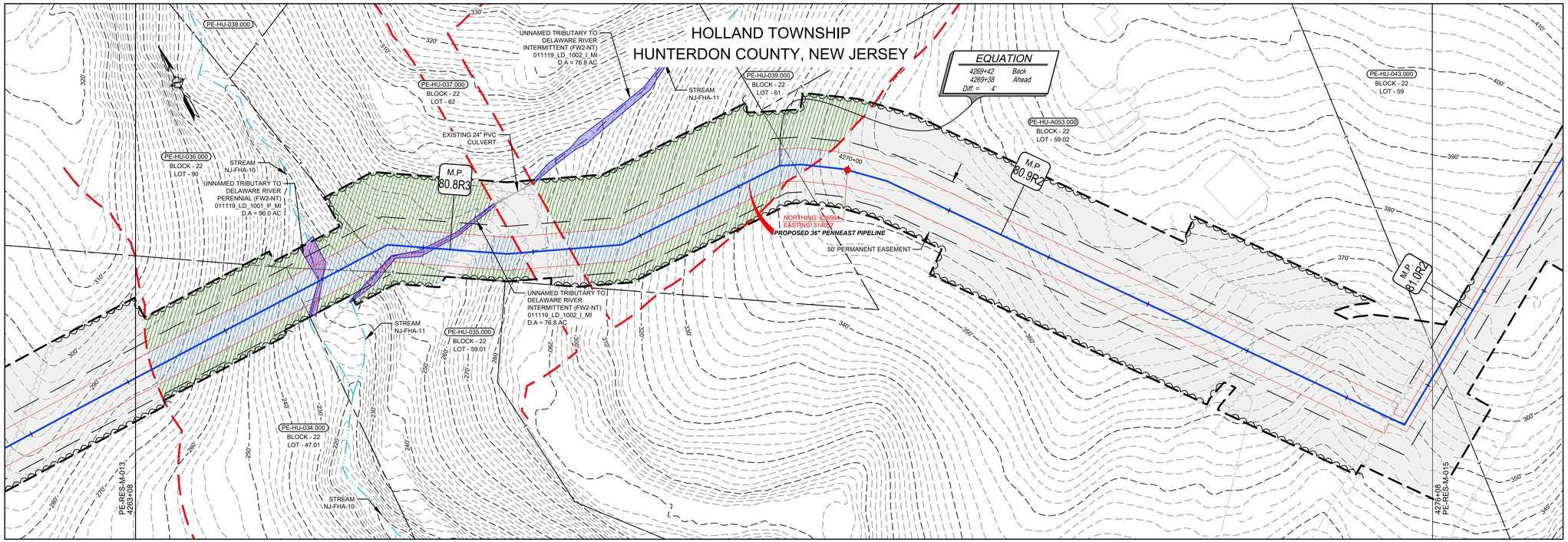
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 80.5R2 - MP 80.7R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-013	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'

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APPROVALS

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

CLIENT APPROVAL — DATE

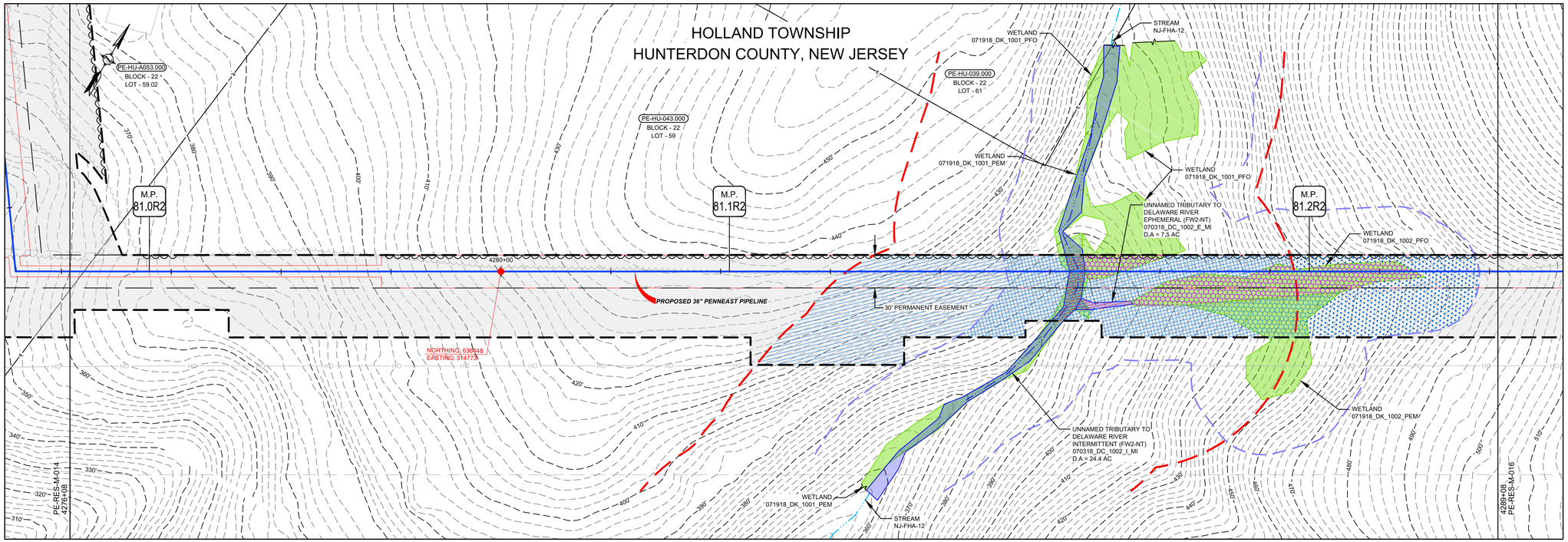
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 80.7R2 - MP 81.0R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-014	0



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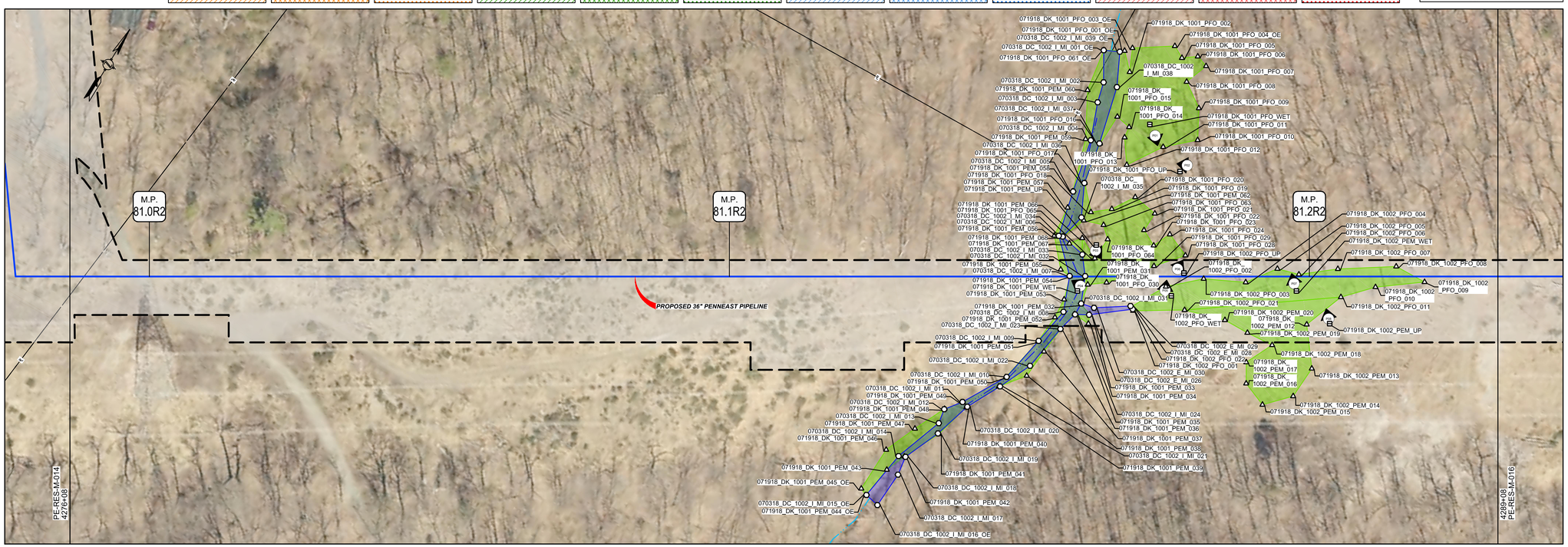
GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

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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 7/2019

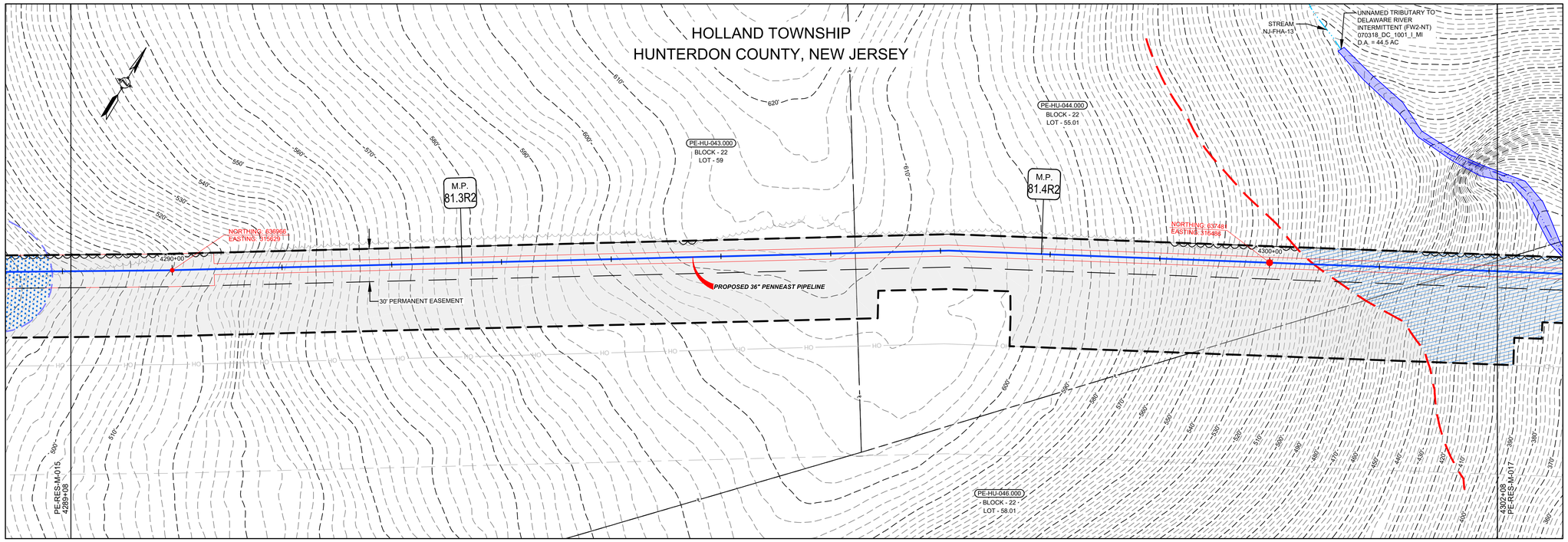
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 81.0R2 - MP 81.2R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-015	0



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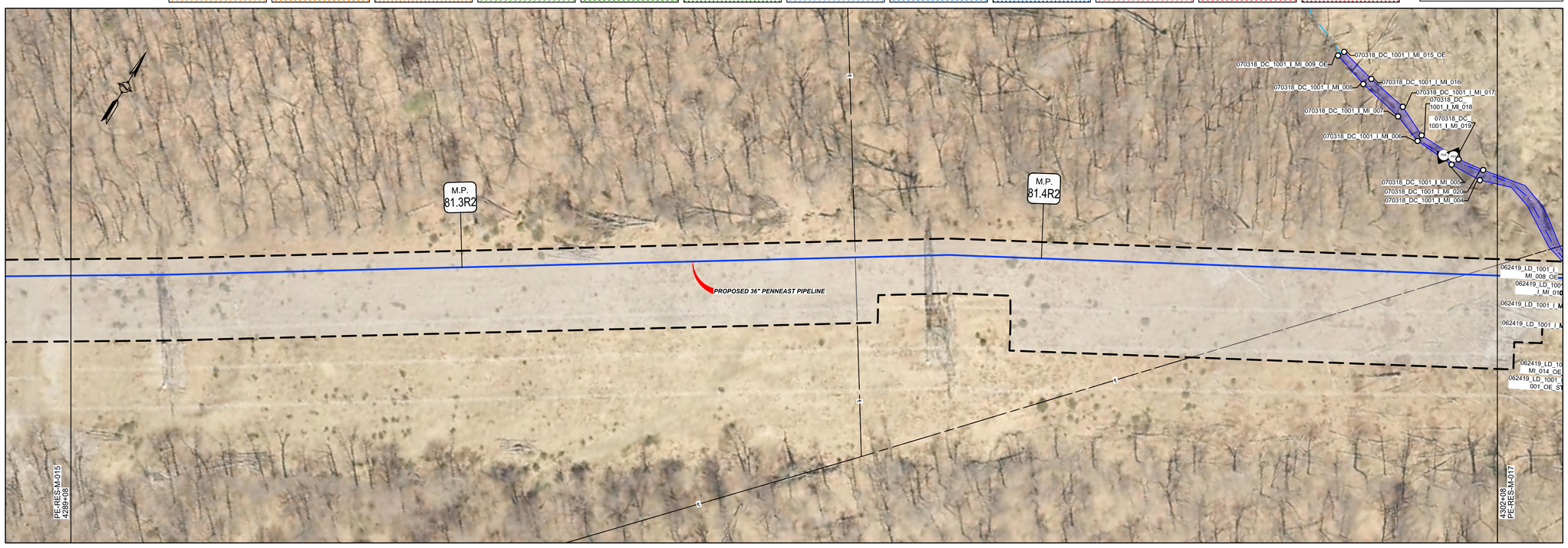
GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

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CLIENT APPROVAL — DATE

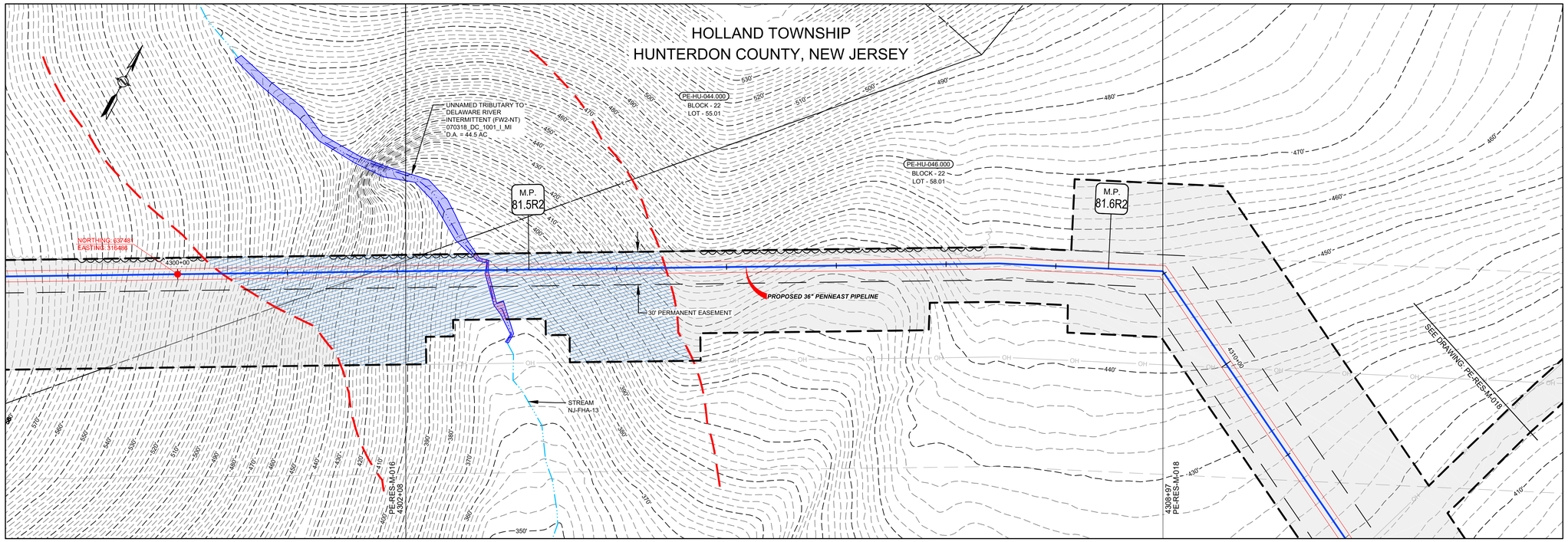
PREPARED FOR: PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 81.2R2 - MP 81.5R2

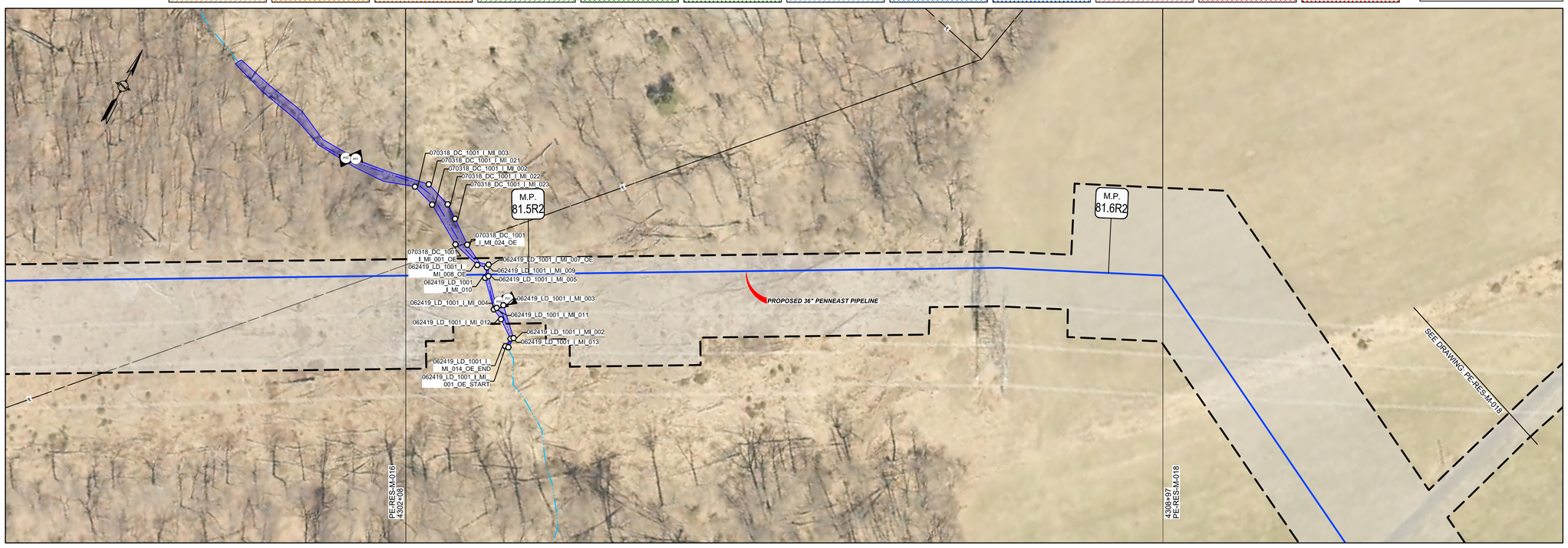
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-016	0



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
- X — 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

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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

	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

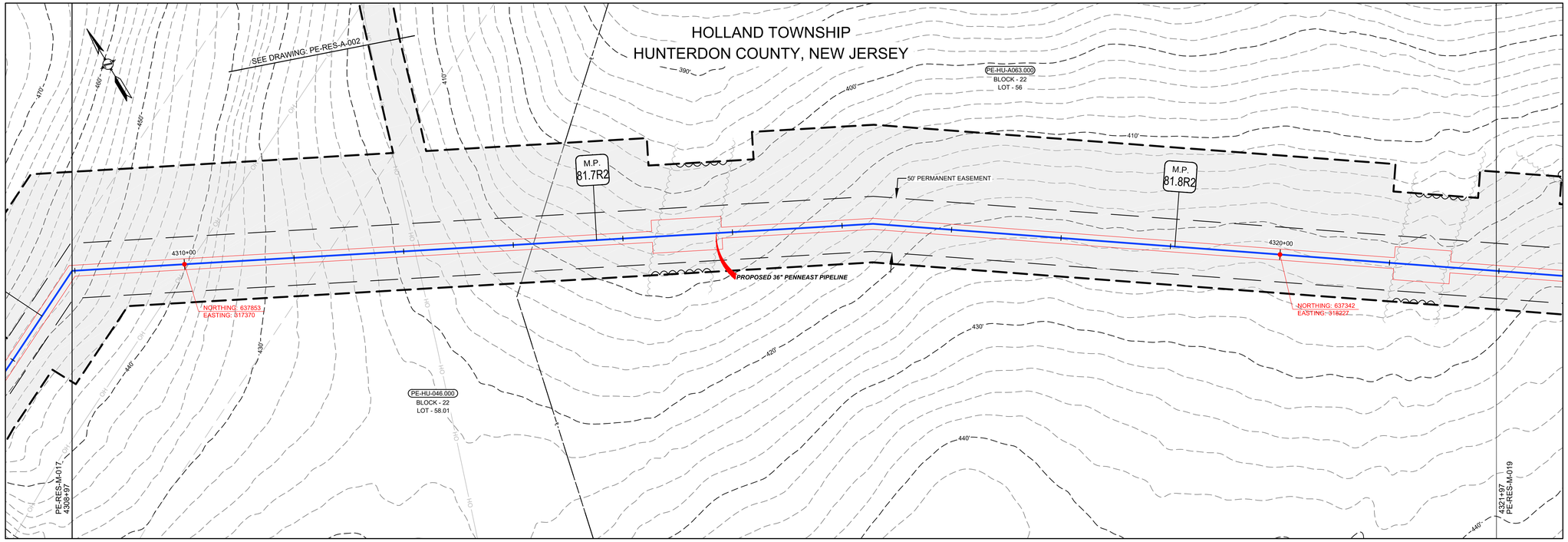
PREPARED FOR: PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 81.5R2 - MP 81.6R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-017	0



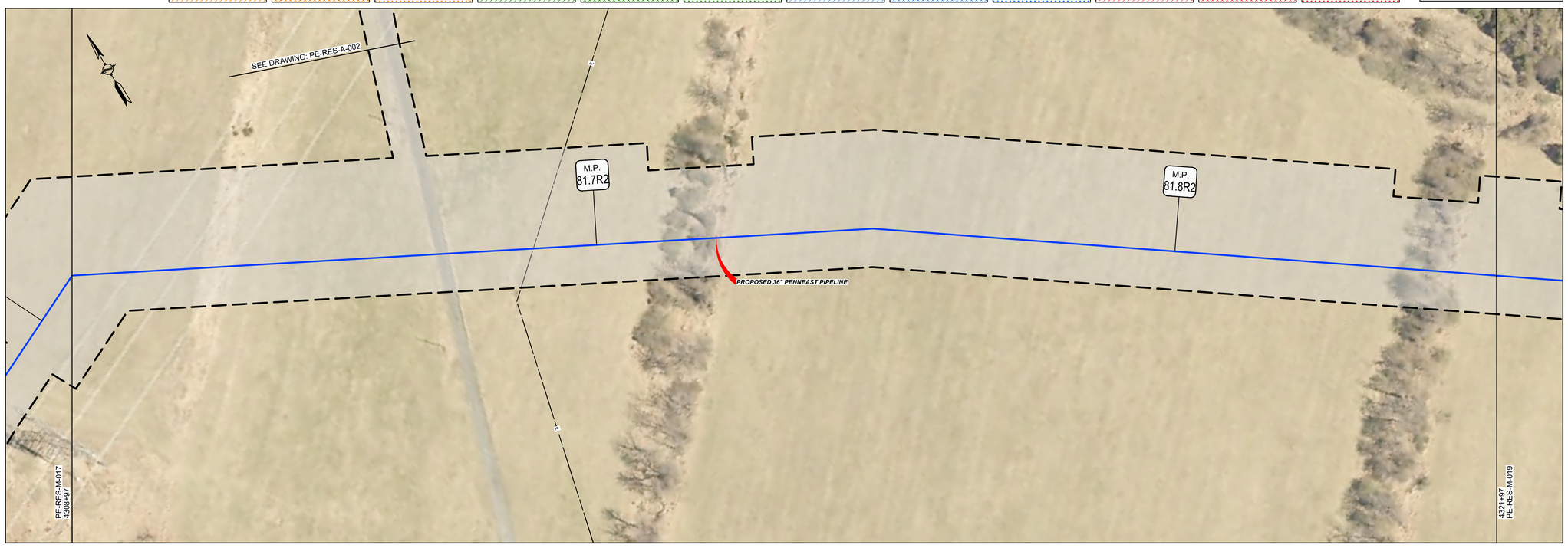
RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

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)
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- 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
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N.J. LIC. NO. 24GE05078700

SIGNATURE — DATE 08/01/2019

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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-03-060	* ACCESS ROAD DETAIL

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

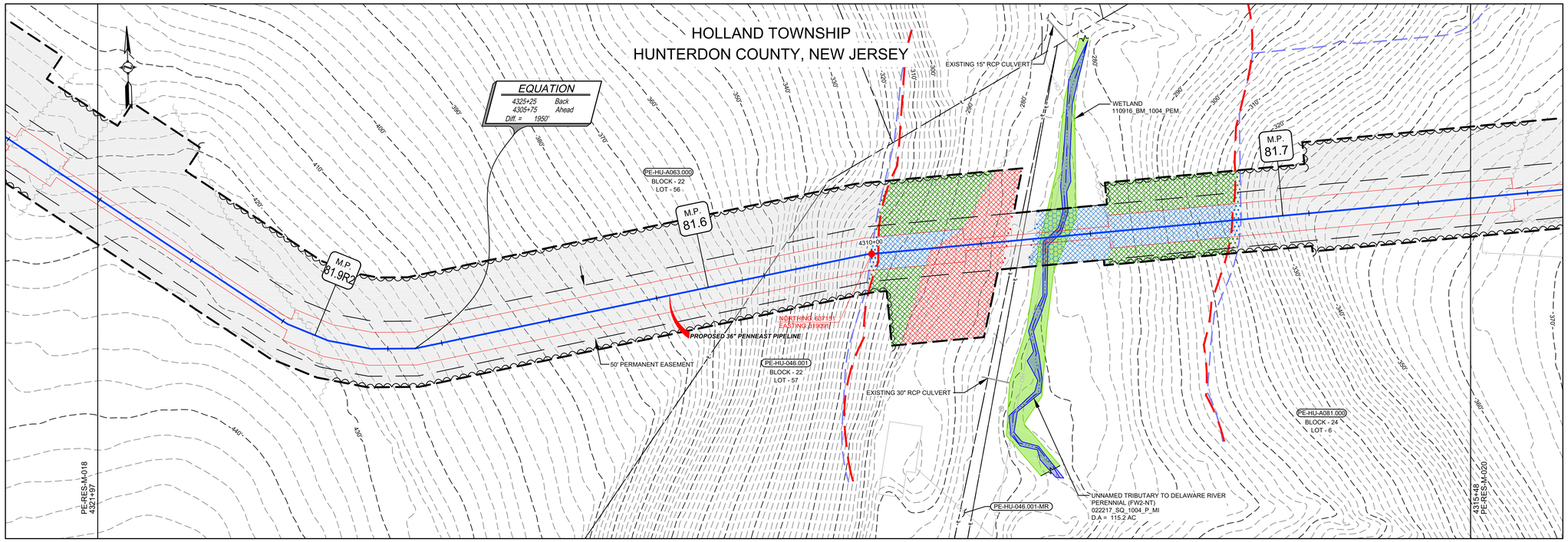
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 81.6R2 - MP 81.9R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-018	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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0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

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DRAWN BY: RJP	7/2019
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CLIENT APPROVAL — DATE 7/2019

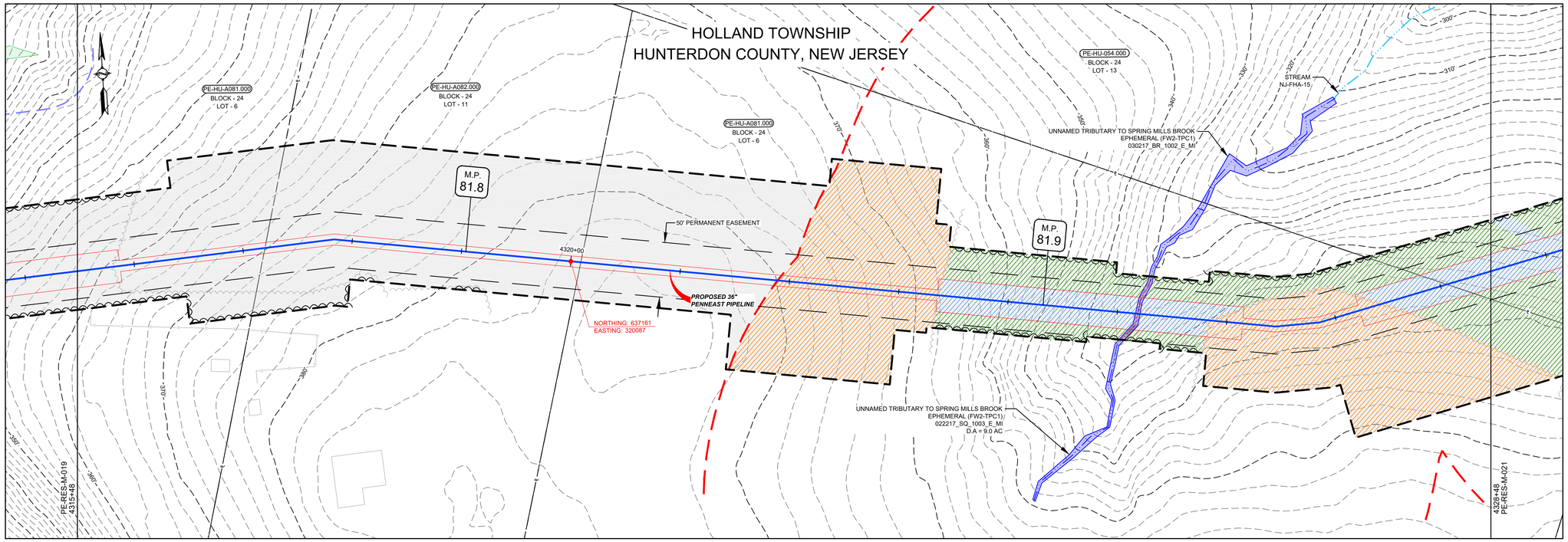
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
RESTORATION PERMIT PLAN
MP 81.9R2 - MP 81.7

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-019	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

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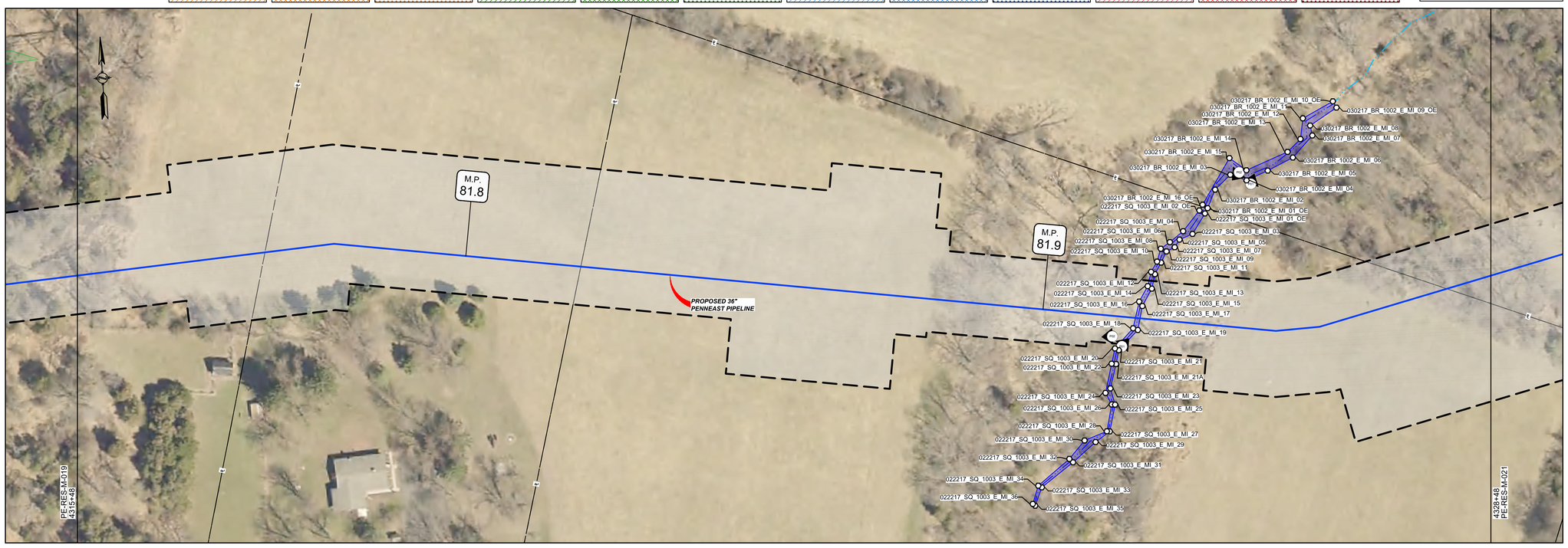
GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



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 81.7 - MP 82.0

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-020	0