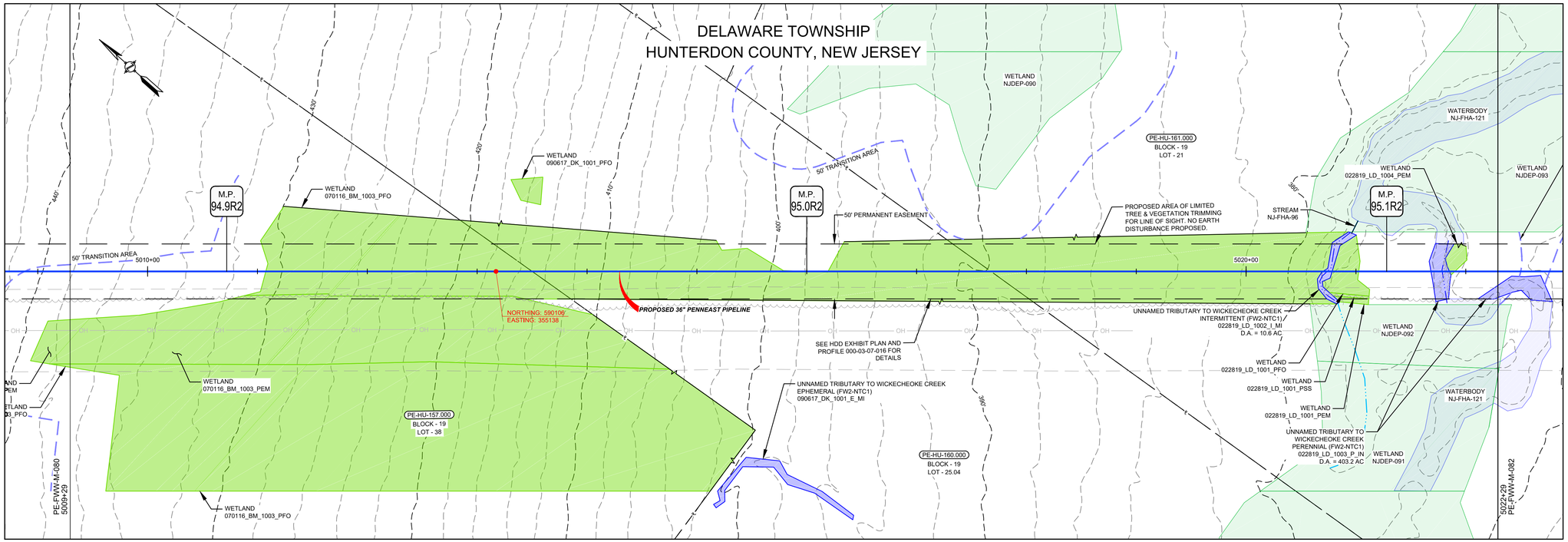
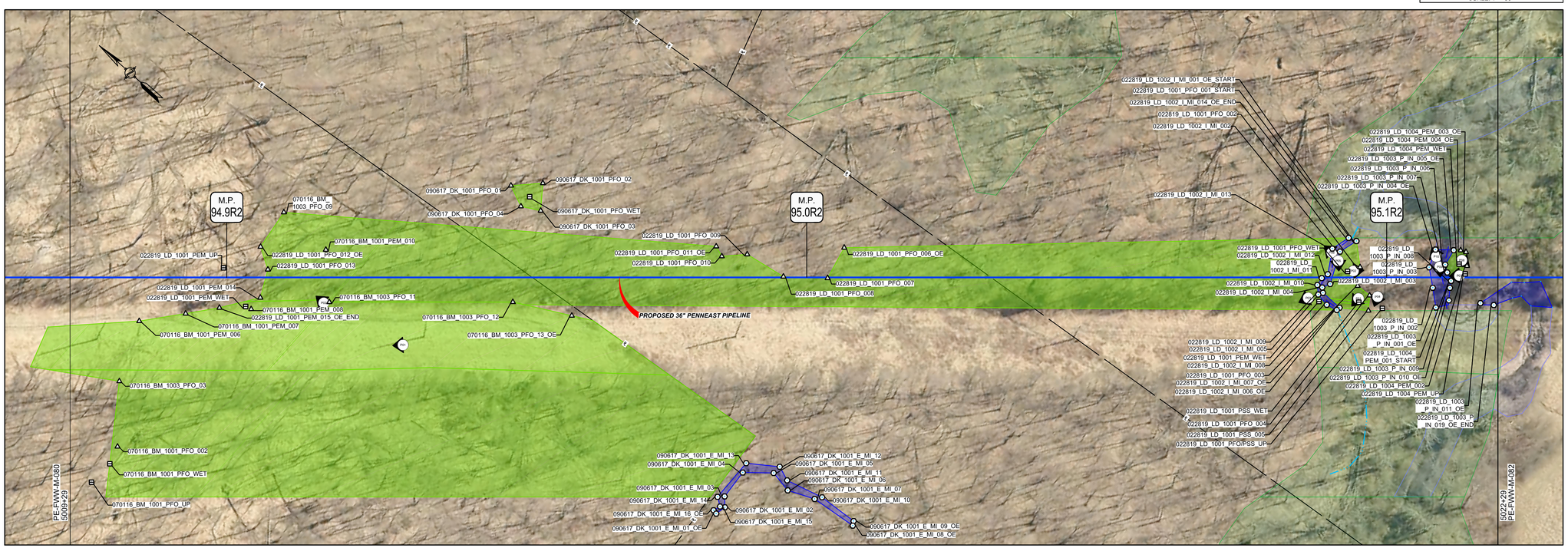


GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND LOD IMPACT
- PSS WETLAND LOD IMPACT
- PFO WETLAND LOD IMPACT
- MODAG WETLAND LOD IMPACT
- WATERBODY (SURVEYED)
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- 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 DEFINING PERMANENT AND TEMPORARY IMPACTS:

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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
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REFERENCE DRAWINGS

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

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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

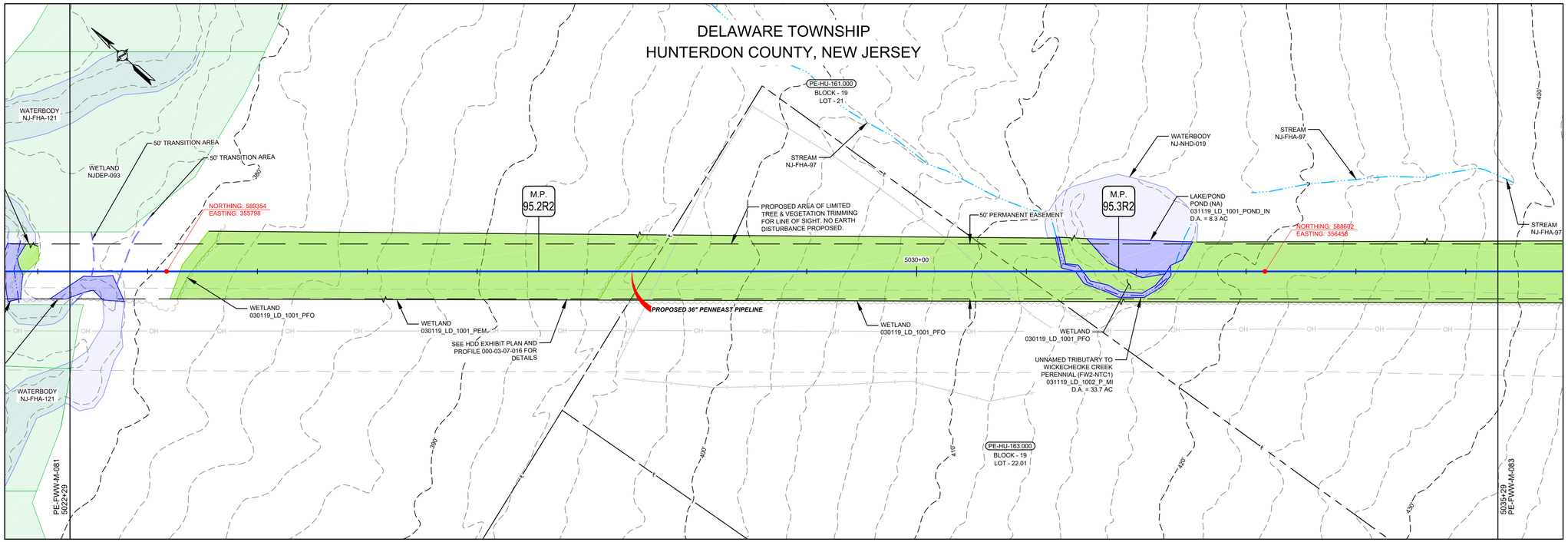
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 94.9R2 - MP 95.1R2

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



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MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE 7/2019

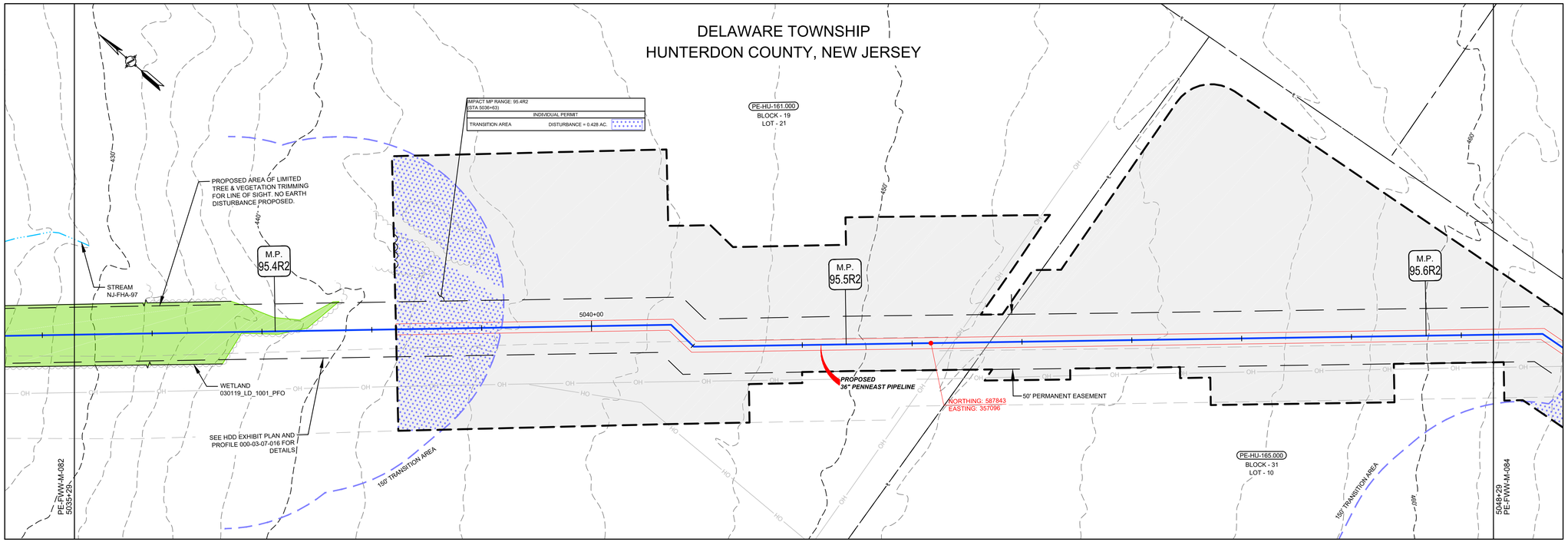
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 95.1R2 - MP 95.4R2

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



GRAPHIC SCALE
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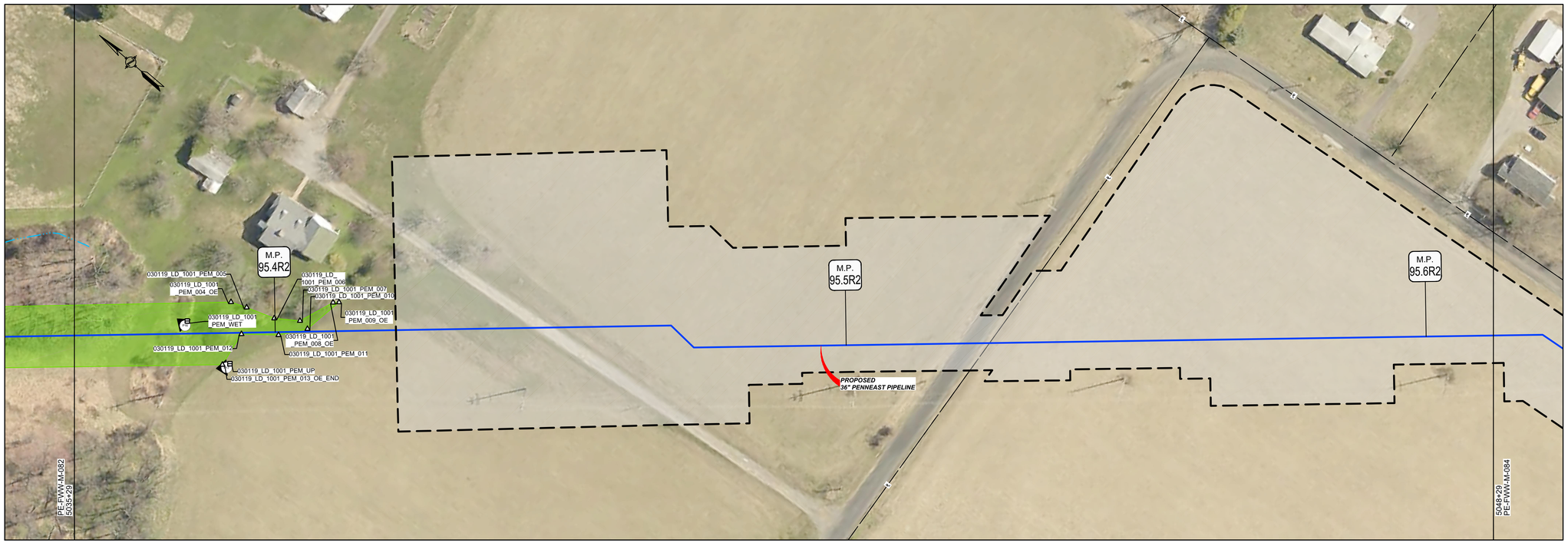

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MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL

DATE 7/2019

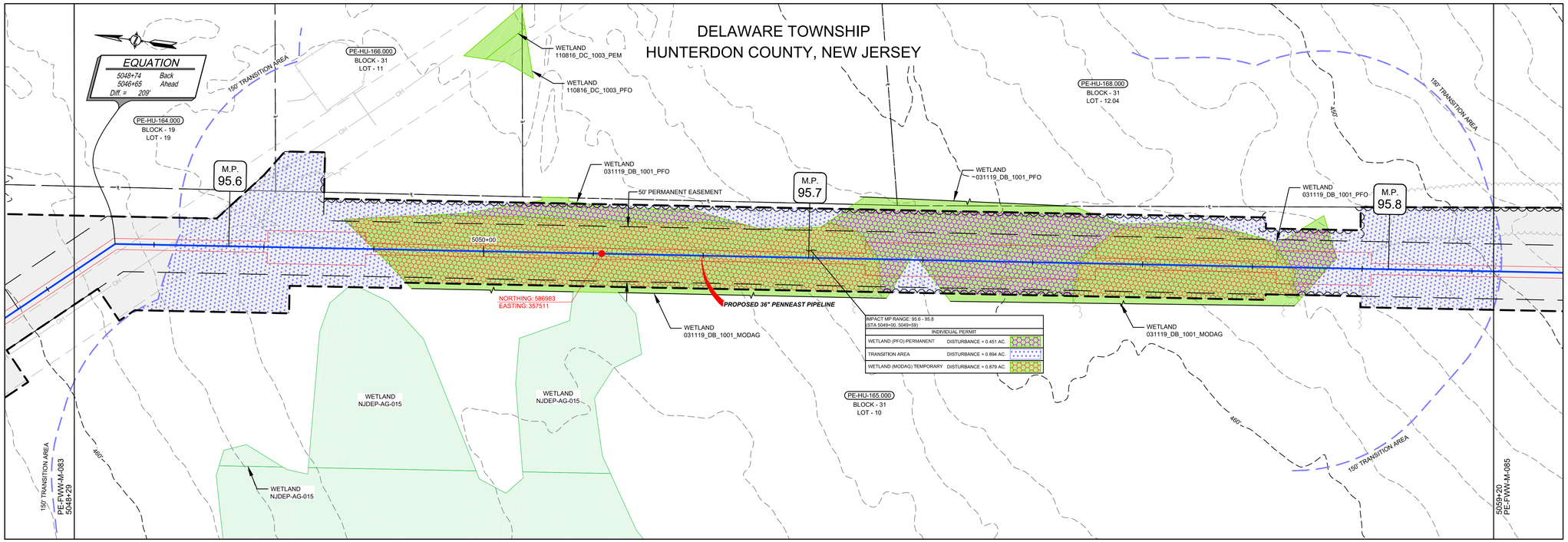
PREPARED FOR PennEast PIPELINE

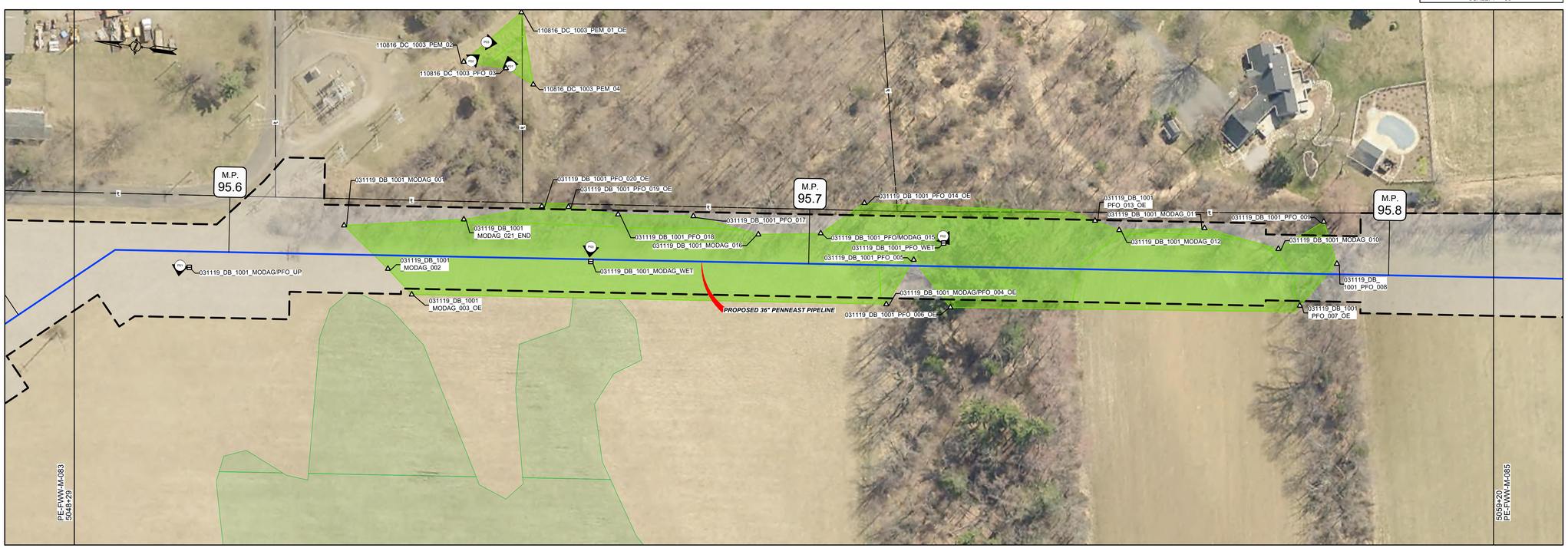
PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 95.4R2 - MP 95.6R2

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





LEGEND

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CLIENT APPROVAL — DATE 7/2019

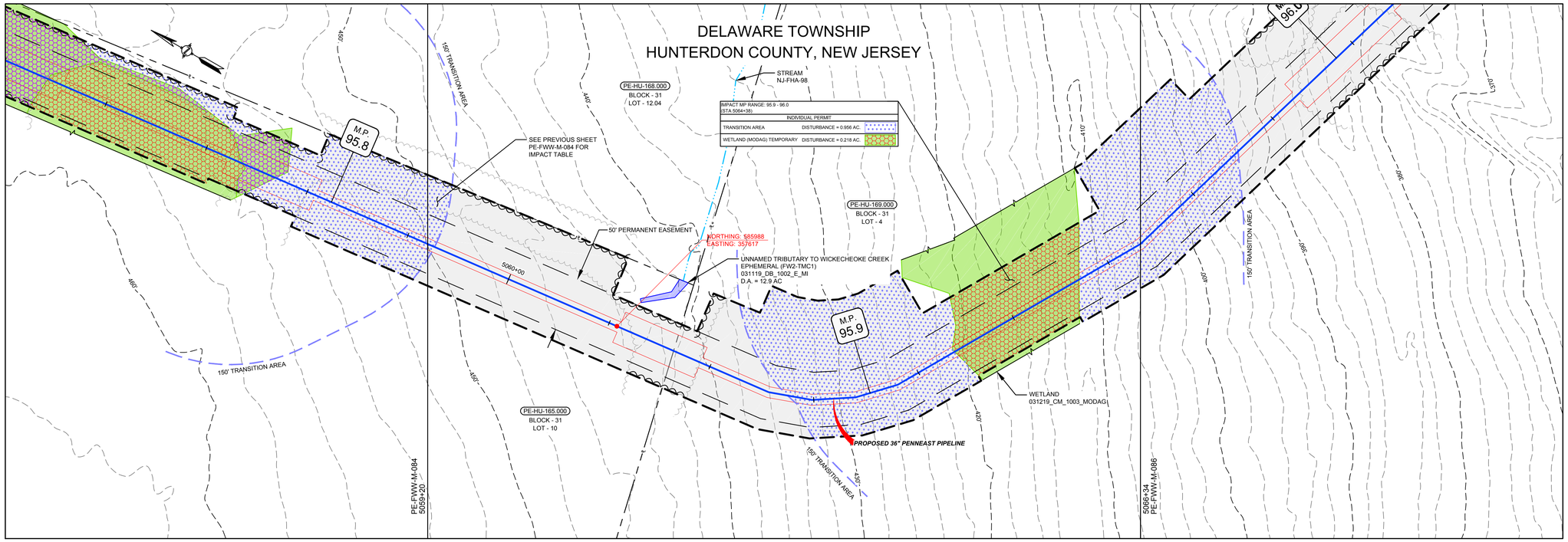
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 95.6R2 - MP 95.8

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



GRAPHIC SCALE

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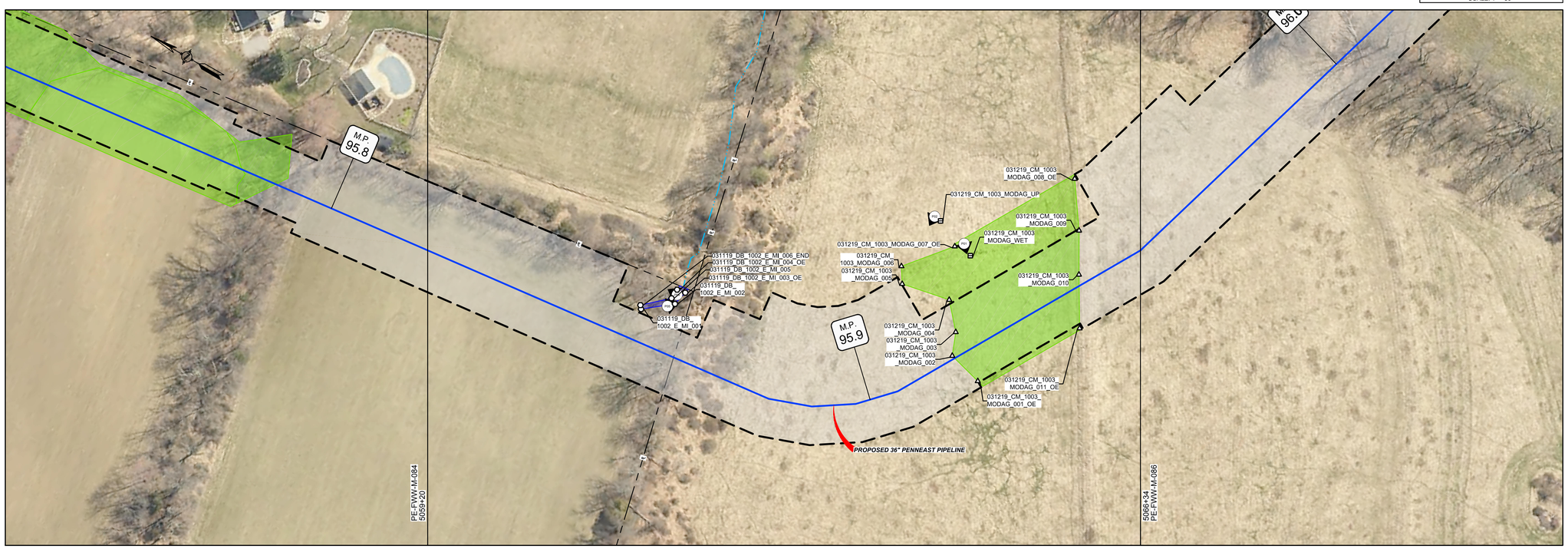

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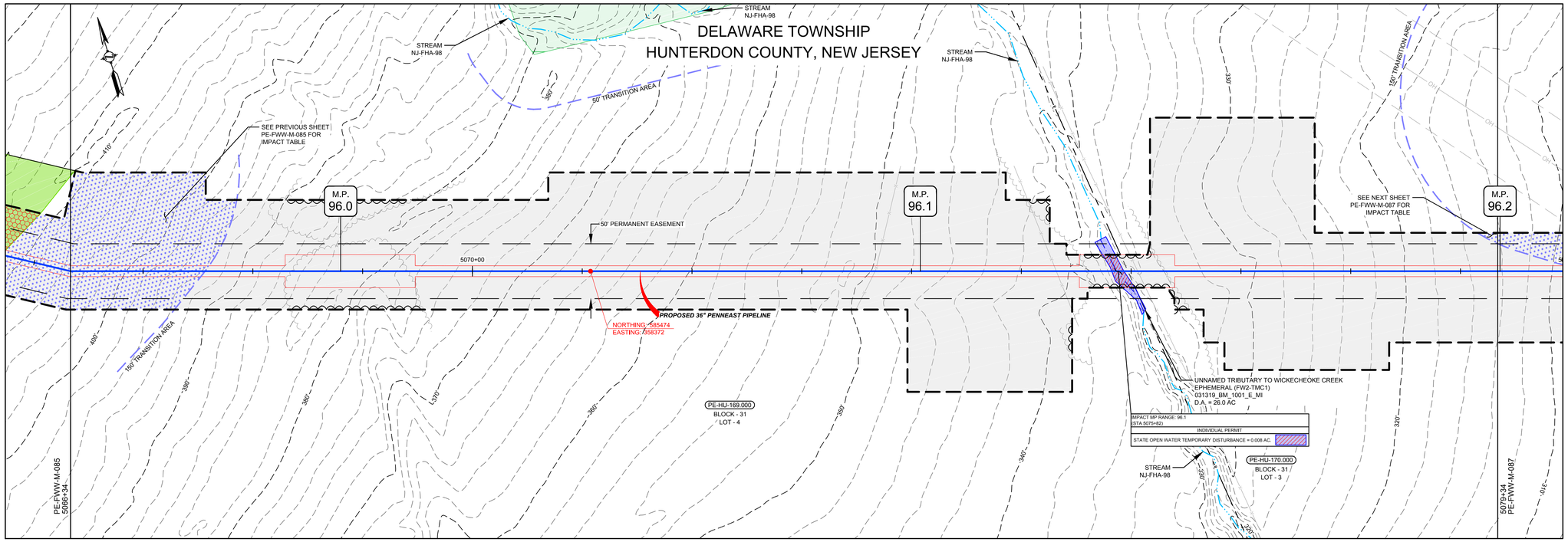
PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

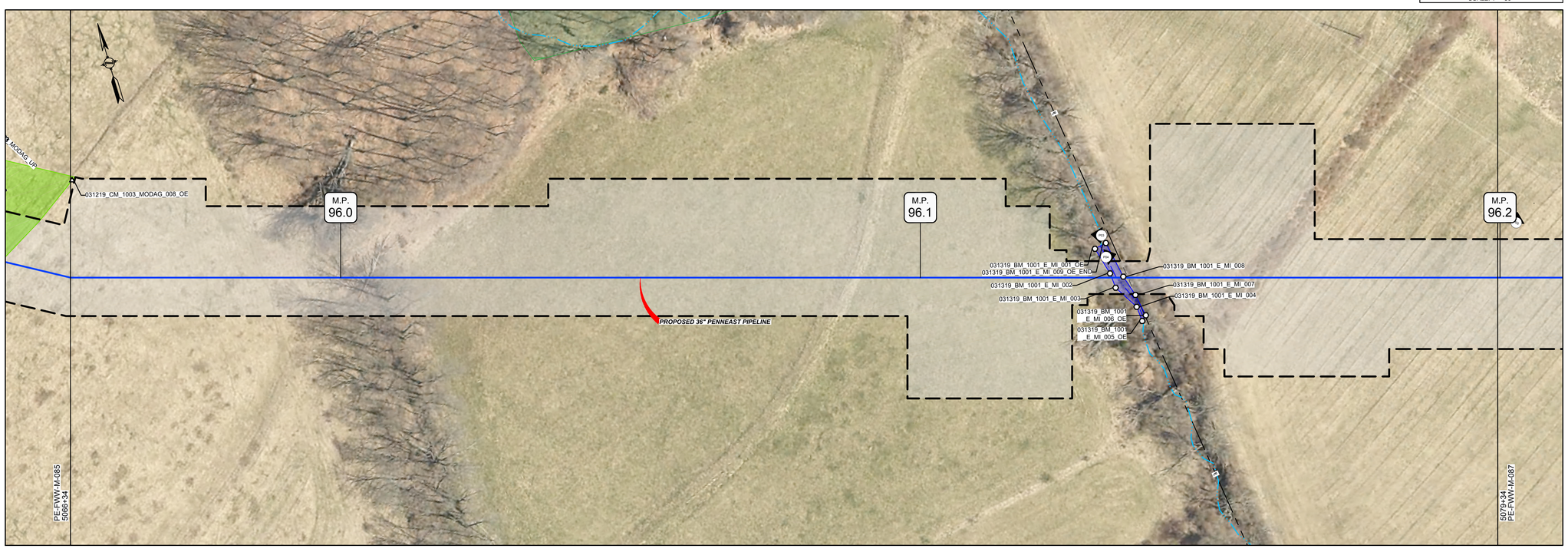
PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 95.8 - MP 96.0

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



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



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND LOD IMPACT
- PSS WETLAND LOD IMPACT
- PFO WETLAND LOD IMPACT
- MODAG WETLAND LOD IMPACT
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
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- TRANSITION AREA IMPACT
- TRANSITION AREA
- STREAM CENTERLINE (SURVEYED)
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- LIMITS OF WETLAND DELINEATION
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- 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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- PVC — POLYVINYL CHLORIDE PIPE
- RCP — REINFORCED CONCRETE PIPE
- UNK — UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260' — EXISTING MAJOR CONTOURS
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- OH — EXISTING OVERHEAD LINE
- 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 DEFINING PERMANENT AND TEMPORARY IMPACTS:

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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
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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

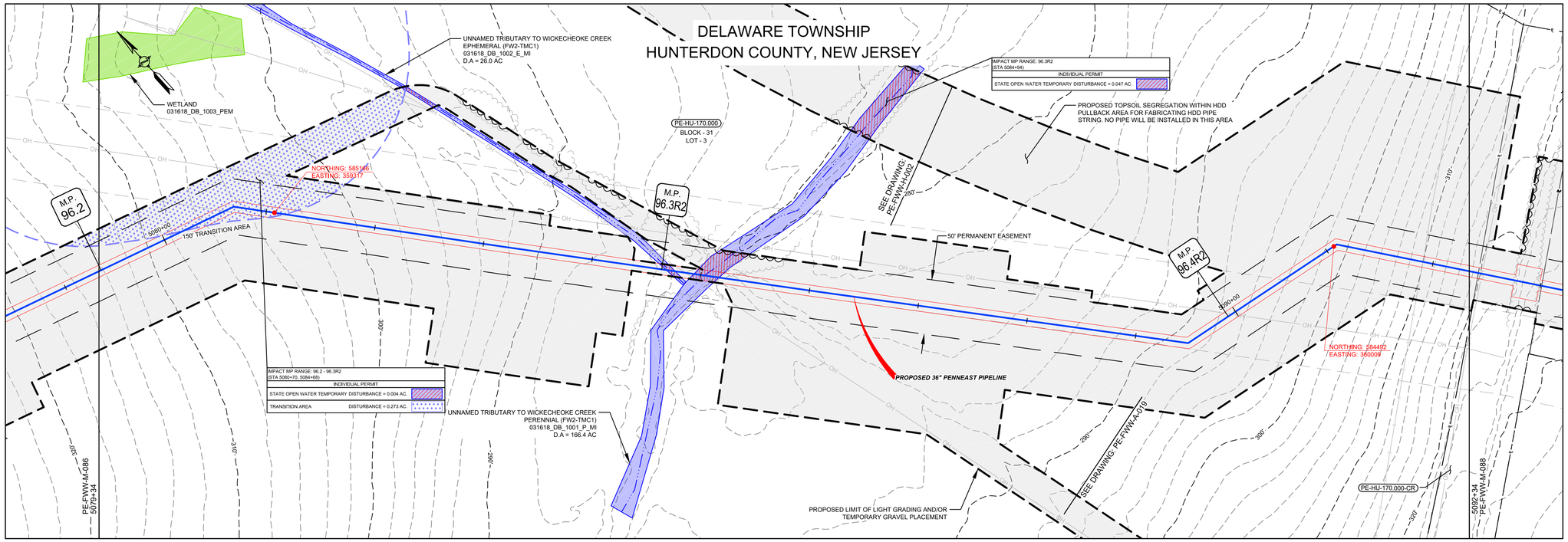
PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 96.0 - MP 96.2

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

DELAWARE TOWNSHIP
HUNTERDON COUNTY, NEW JERSEY



GRAPHIC SCALE

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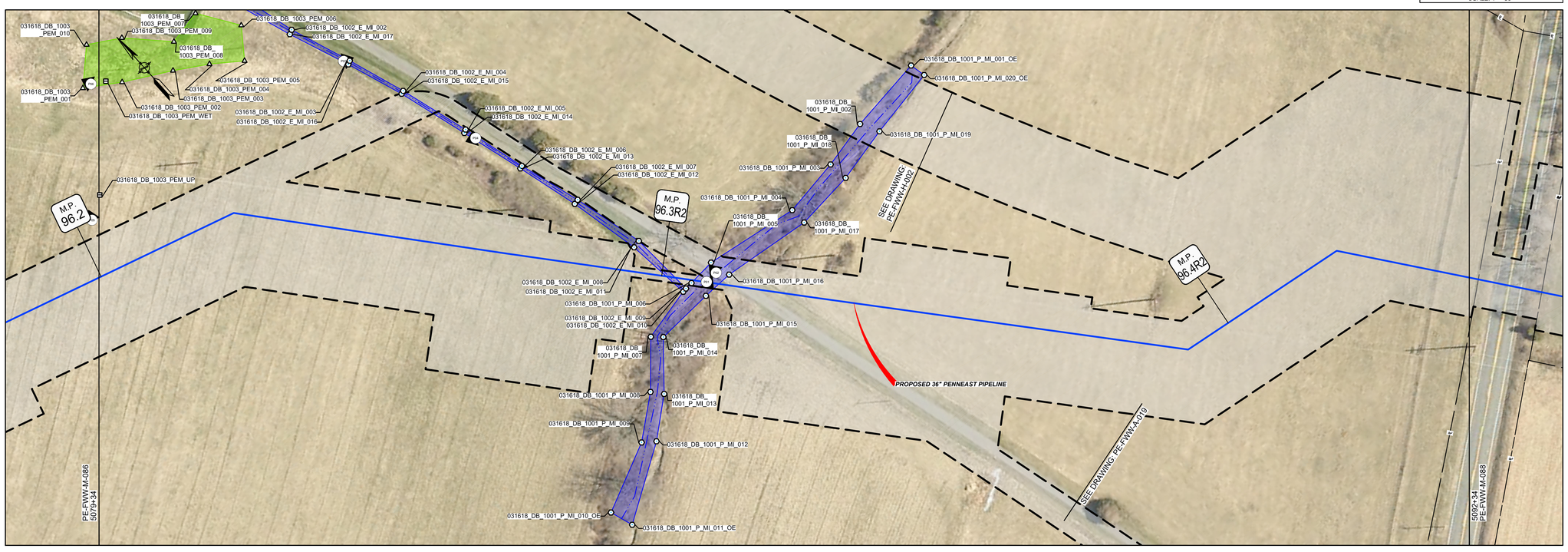

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REFERENCE DRAWINGS

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

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RJP	7/2019
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MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL

DATE

7/2019

PREPARED FOR

PennEast PIPELINE

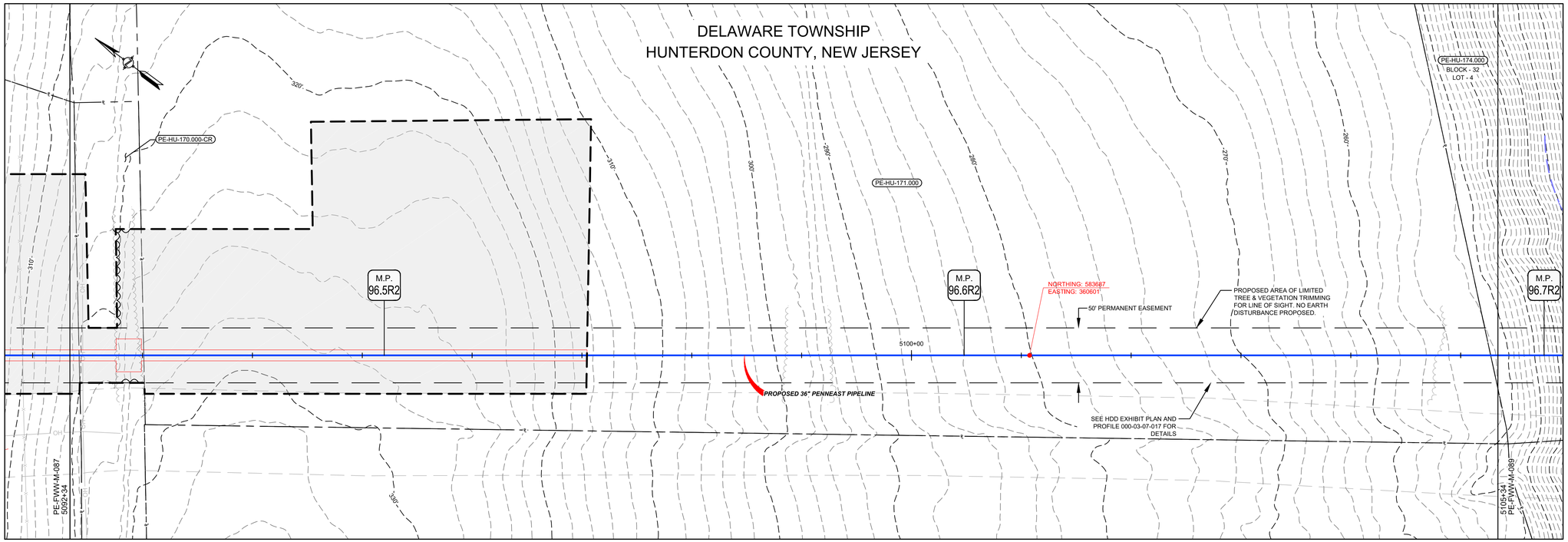
PREPARED BY

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 96.2 - MP 96.4R2

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



GRAPHIC SCALE
50' 25' 0 50'
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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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ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL

DATE 7/2019

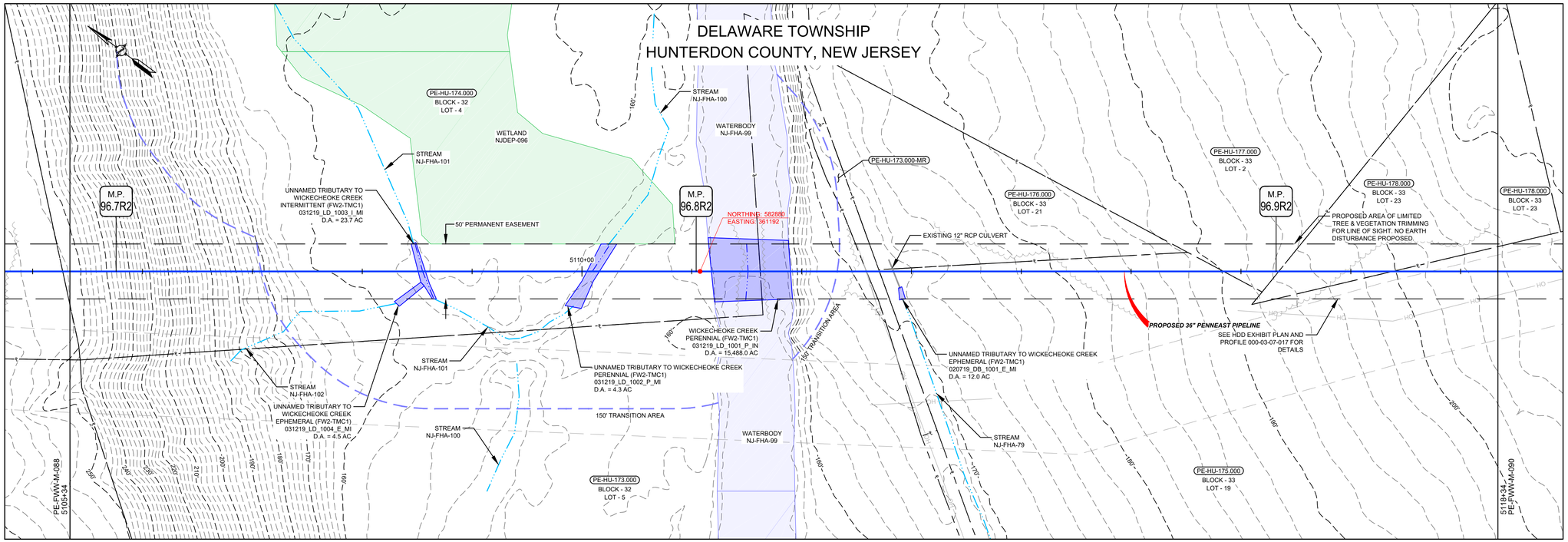
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 96.4R2 - MP 96.7R2

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



GRAPHIC SCALE

50' 25' 0 50'

SCALE: 1" = 50'

LEGEND

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

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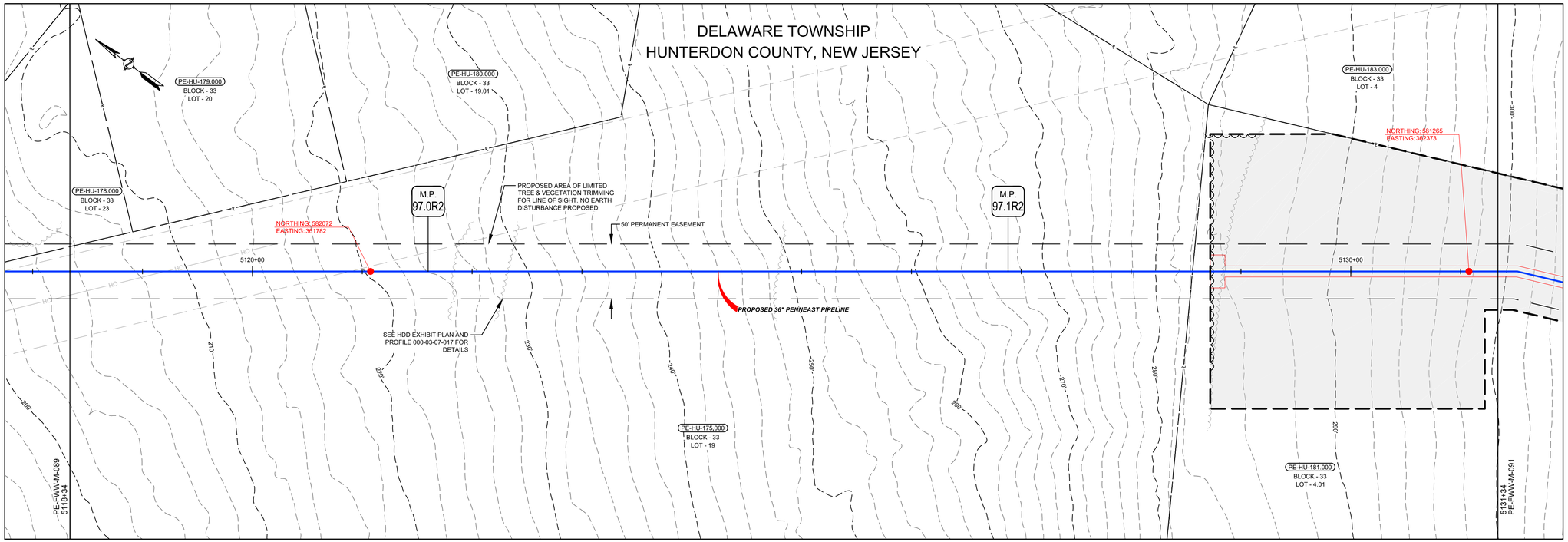
PREPARED FOR
PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 96.7R2 - MP 96.9R2

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



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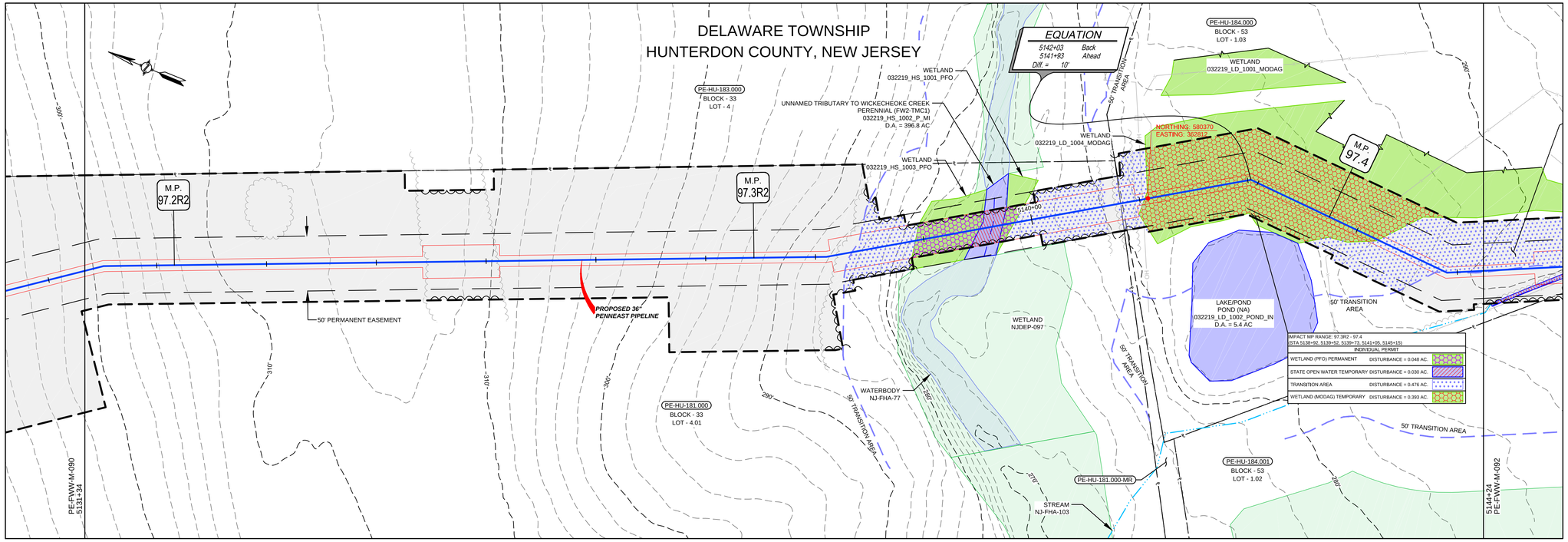
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 96.9R2 - MP 97.2R2

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



GRAPHIC SCALE

50' 25' 0 50'

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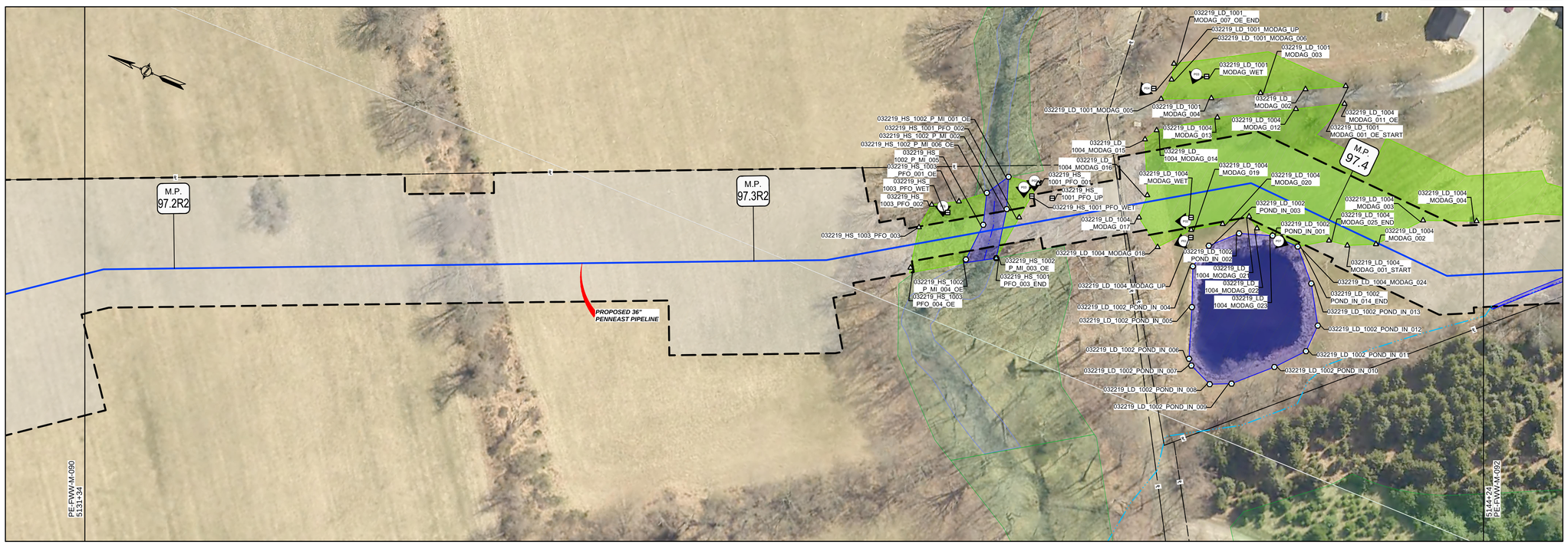

LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE
- EXISTING TREE LINE
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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

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CLIENT APPROVAL

DATE 7/2019

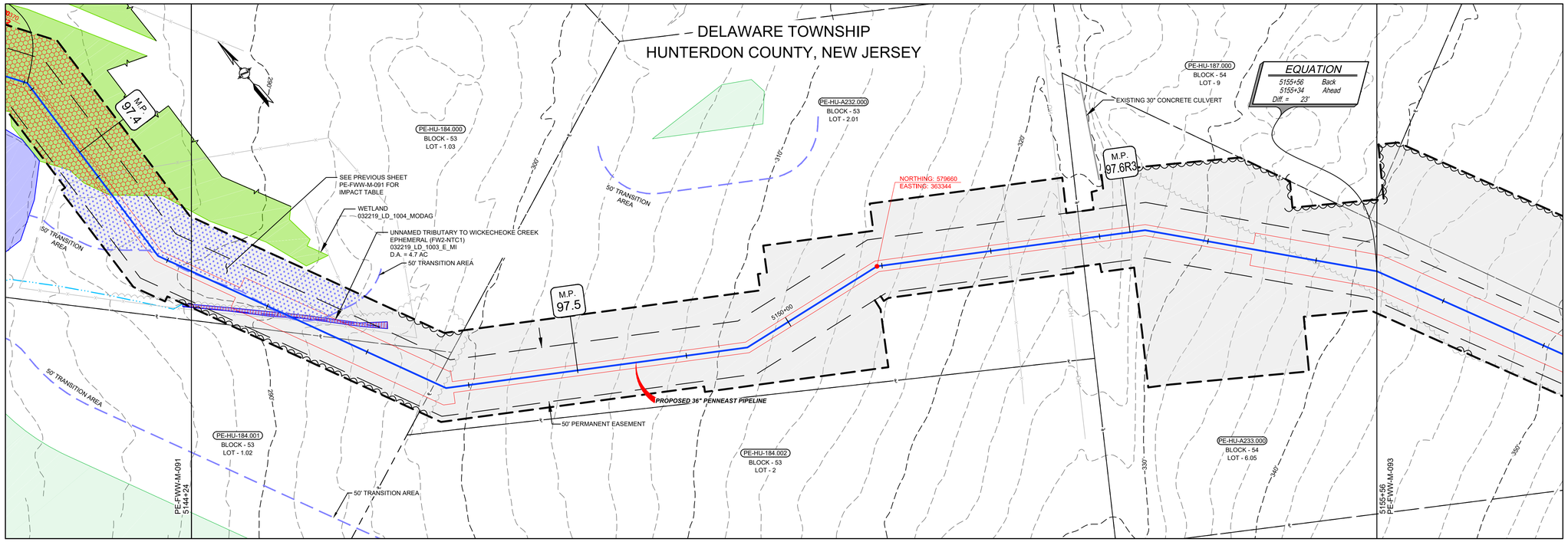
PREPARED FOR PennEast PIPELINE

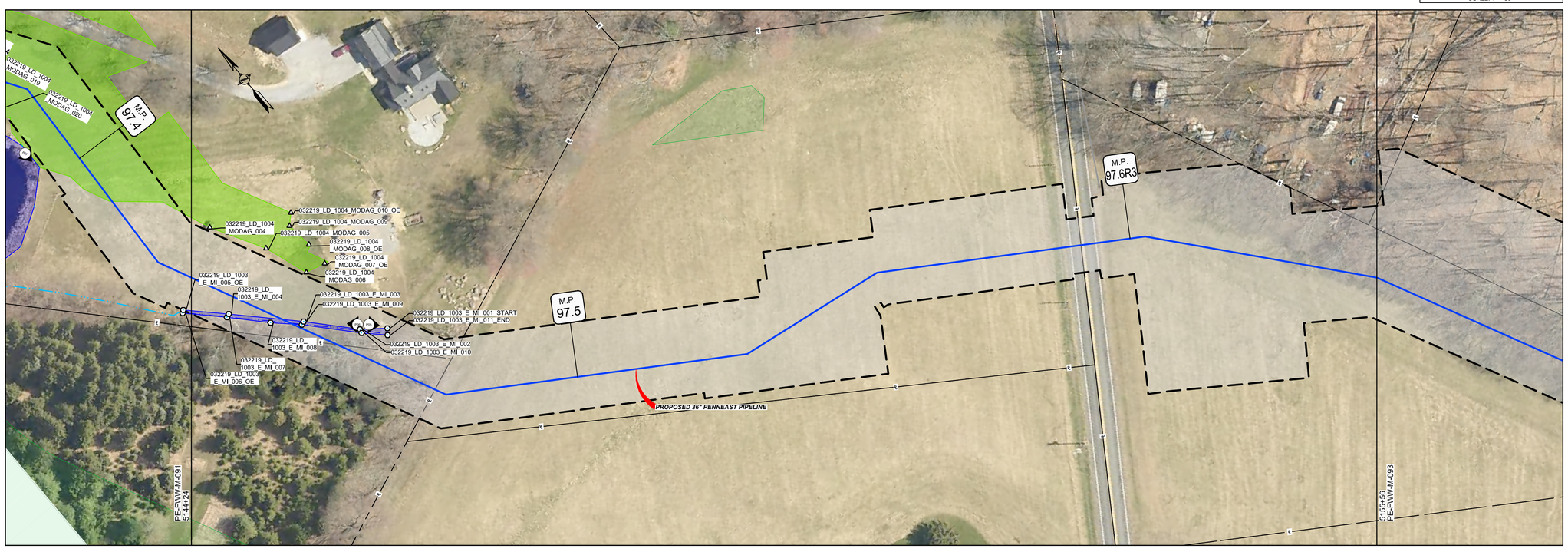
PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 97.2R2 - MP 97.4

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





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PREPARED BY MOTT MACDONALD
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CERTIFICATE NO. 24GA28016600

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PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 97.4 - MP 97.6R3

SCALE	DRAWING NO.	REVISION
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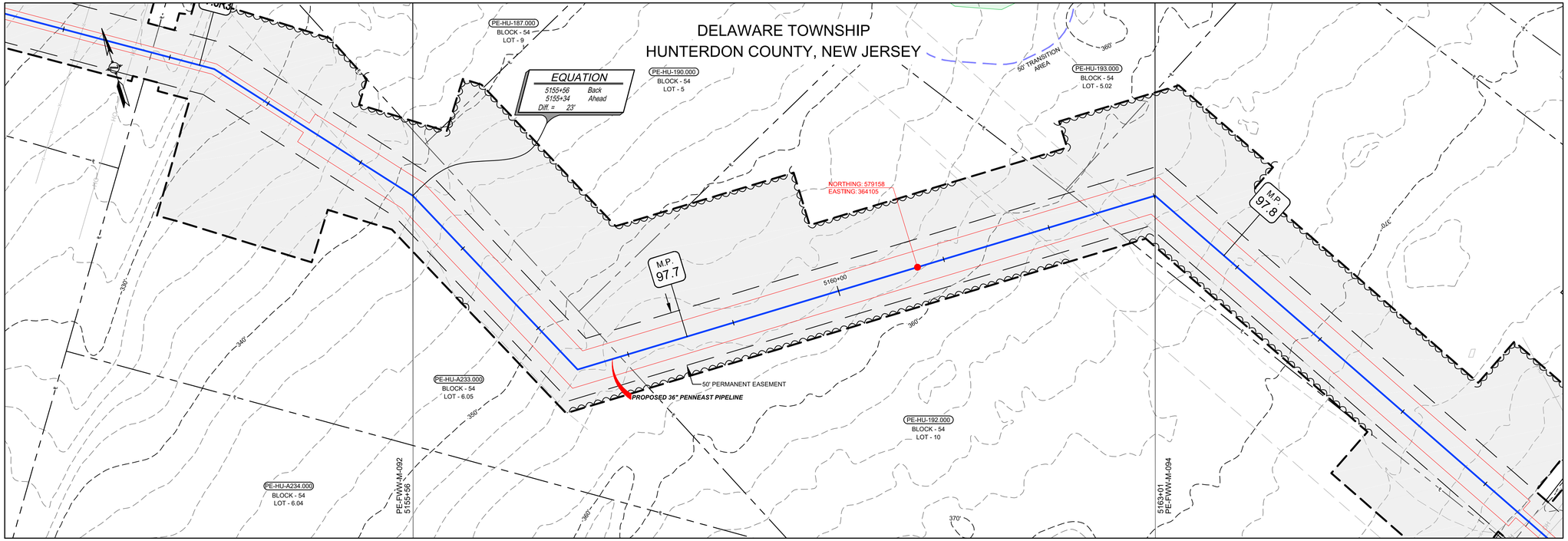

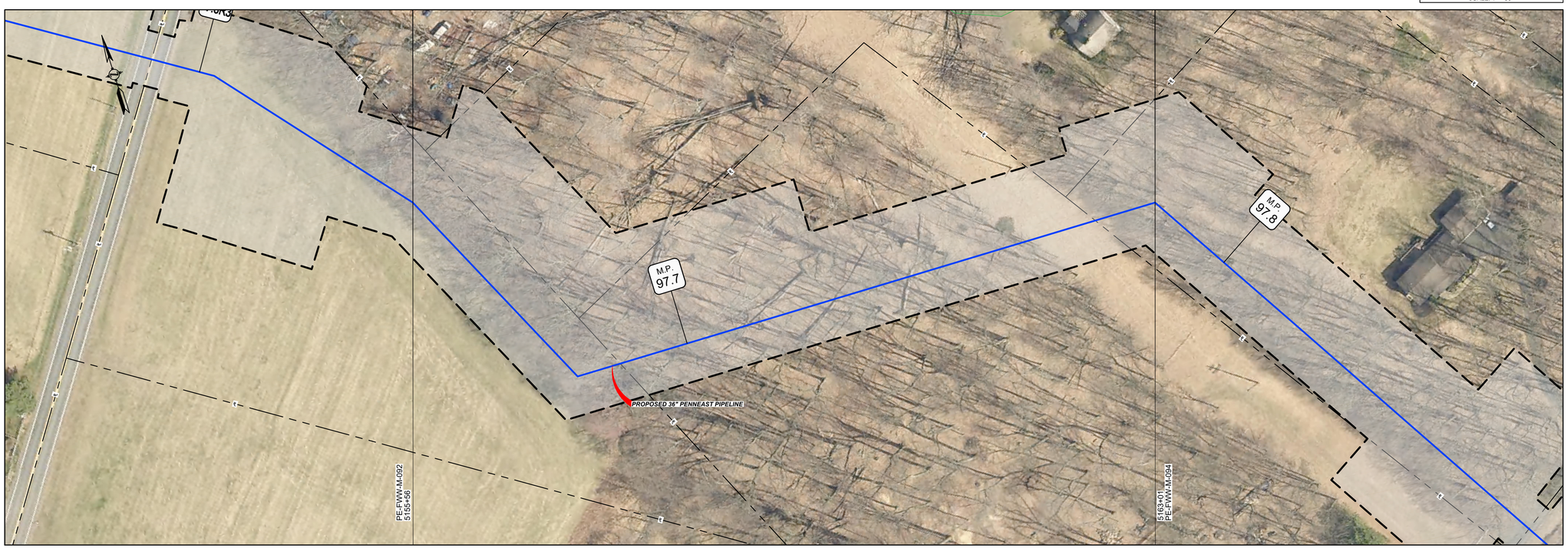

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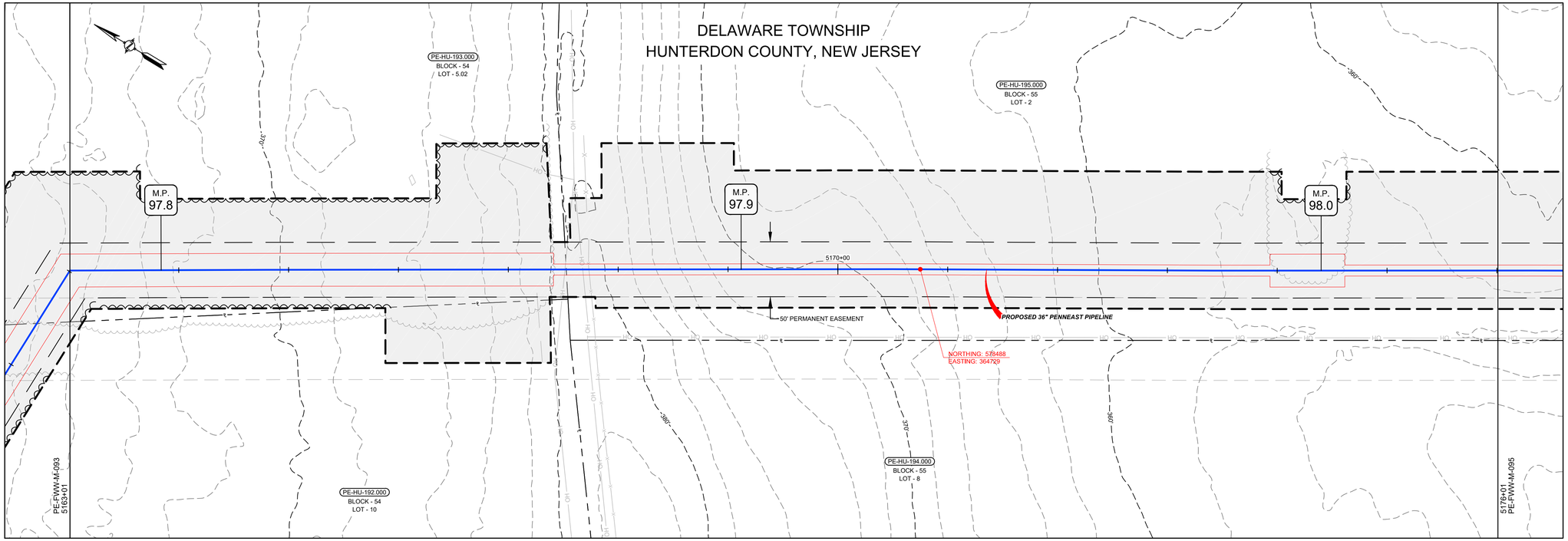
PREPARED FOR PennEast PIPELINE

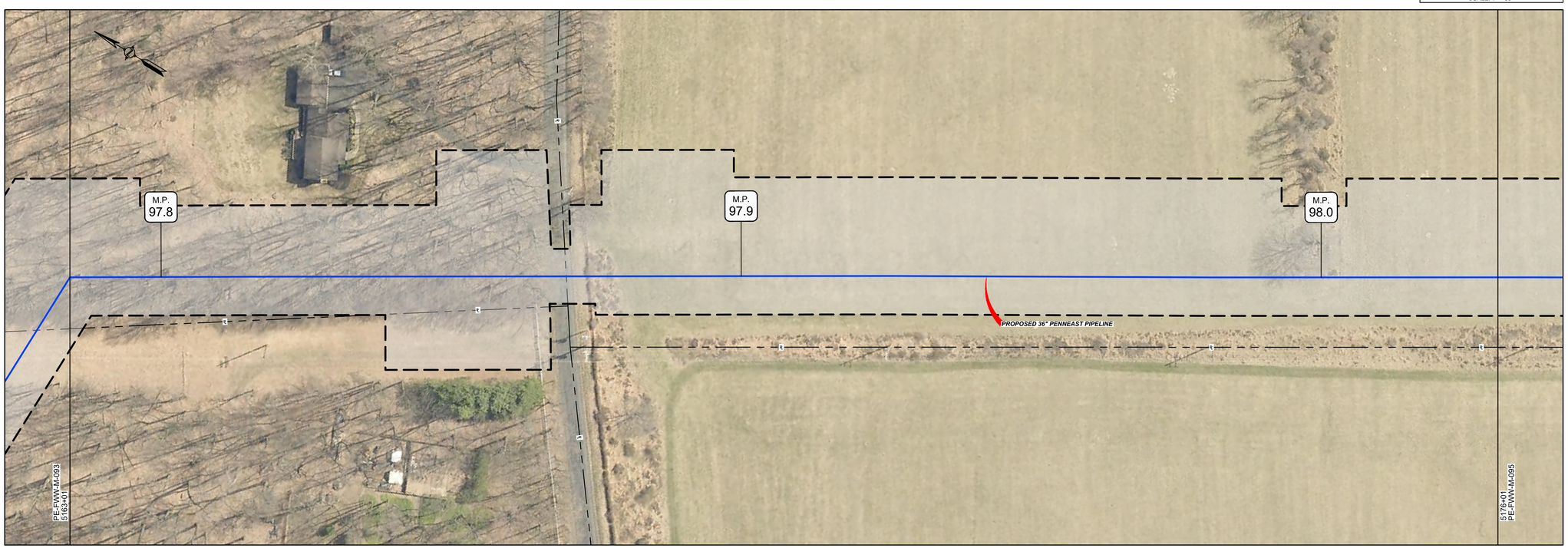
PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 97.6R3 - MP 97.8

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





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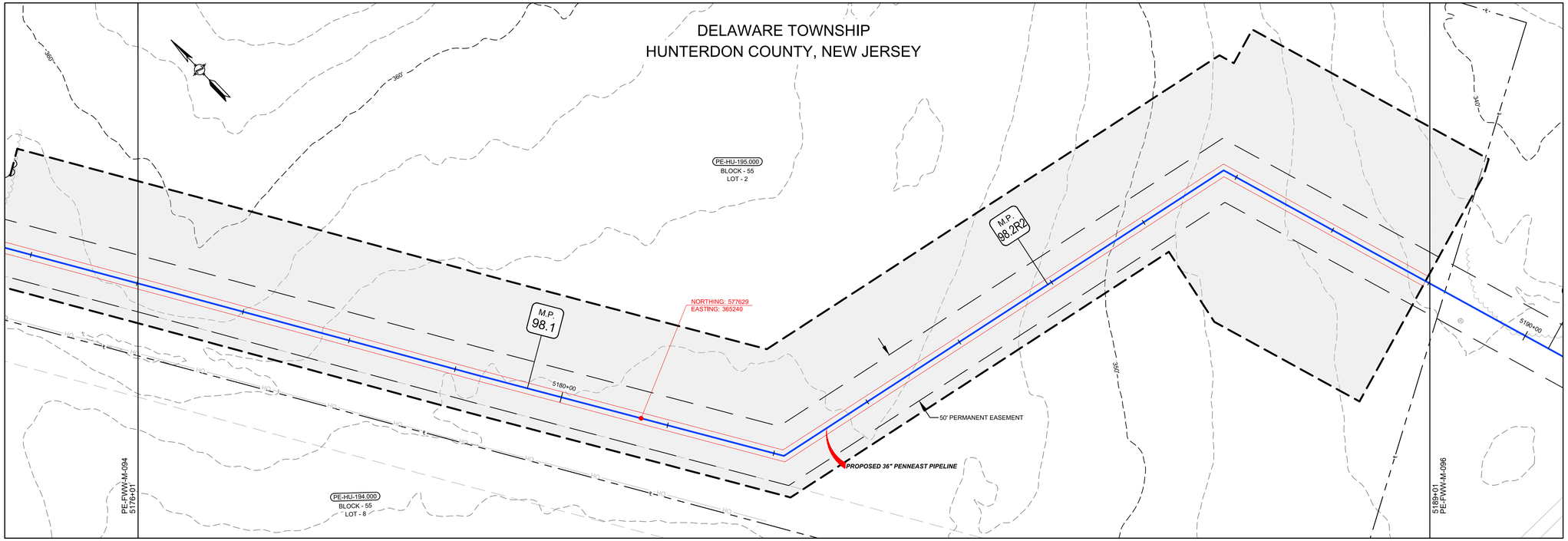
PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 97.8 - MP 98.0

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



GRAPHIC SCALE
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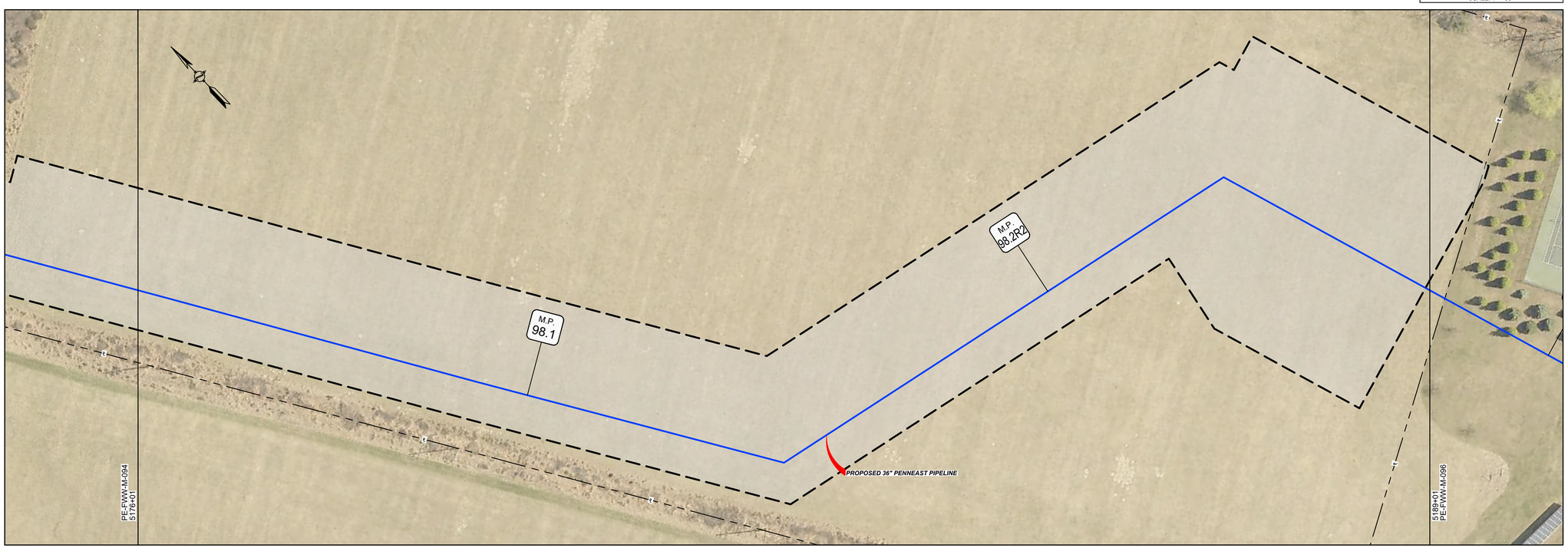

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CLIENT APPROVAL

DATE 7/2019

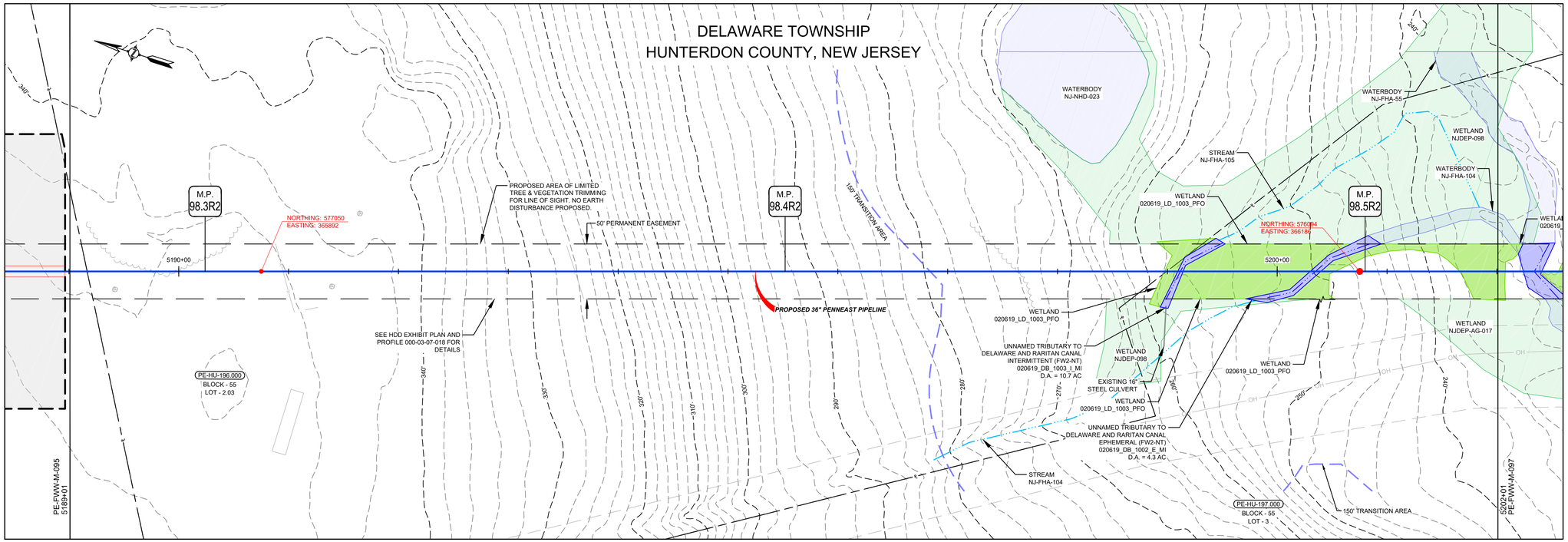
PREPARED FOR
PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 98.0 - MP 98.3R2

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



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND LOD IMPACT
- PSS WETLAND LOD IMPACT
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- EXISTING FOREIGN UTILITY EASEMENT
- 1260'+ — EXISTING MAJOR CONTOURS
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- WETLAND FLAG NO — WETLAND FLAG
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- SOW_FLAG_NO — STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES DEFINING PERMANENT AND TEMPORARY IMPACTS:

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

REVISIONS

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

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CLIENT APPROVAL — DATE 7/2019

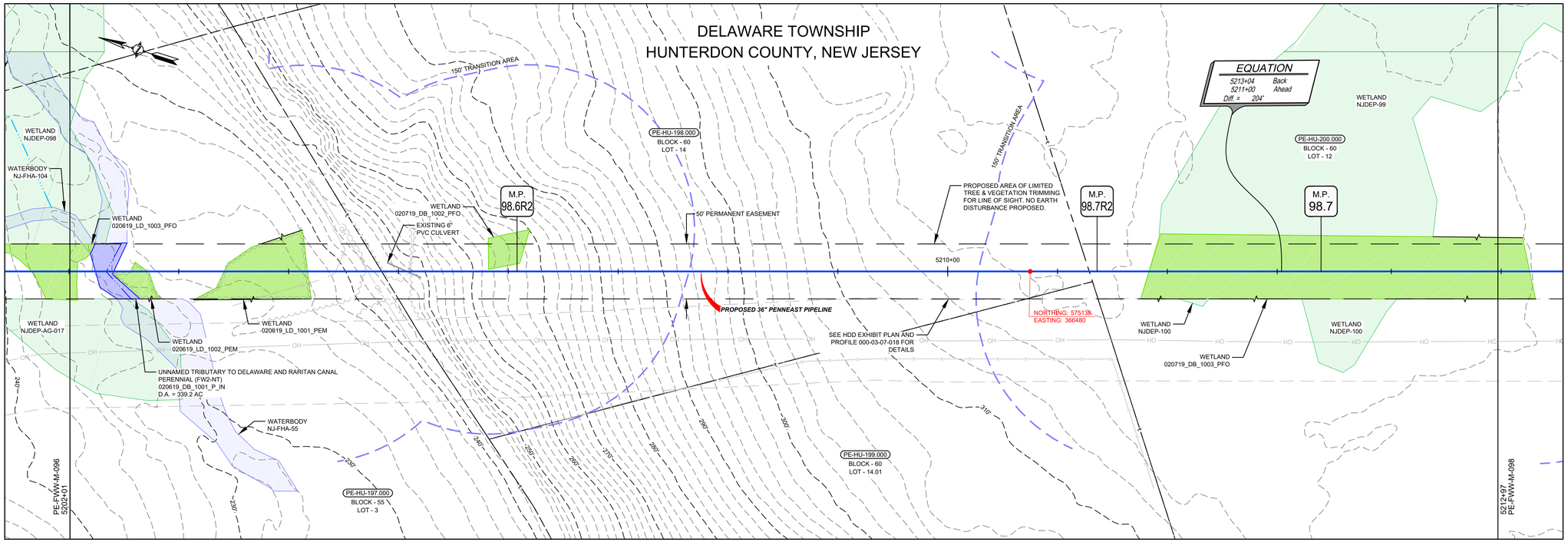
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 98.3R2 - MP 98.5R2

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



GRAPHIC SCALE
50' 25' 0 50'
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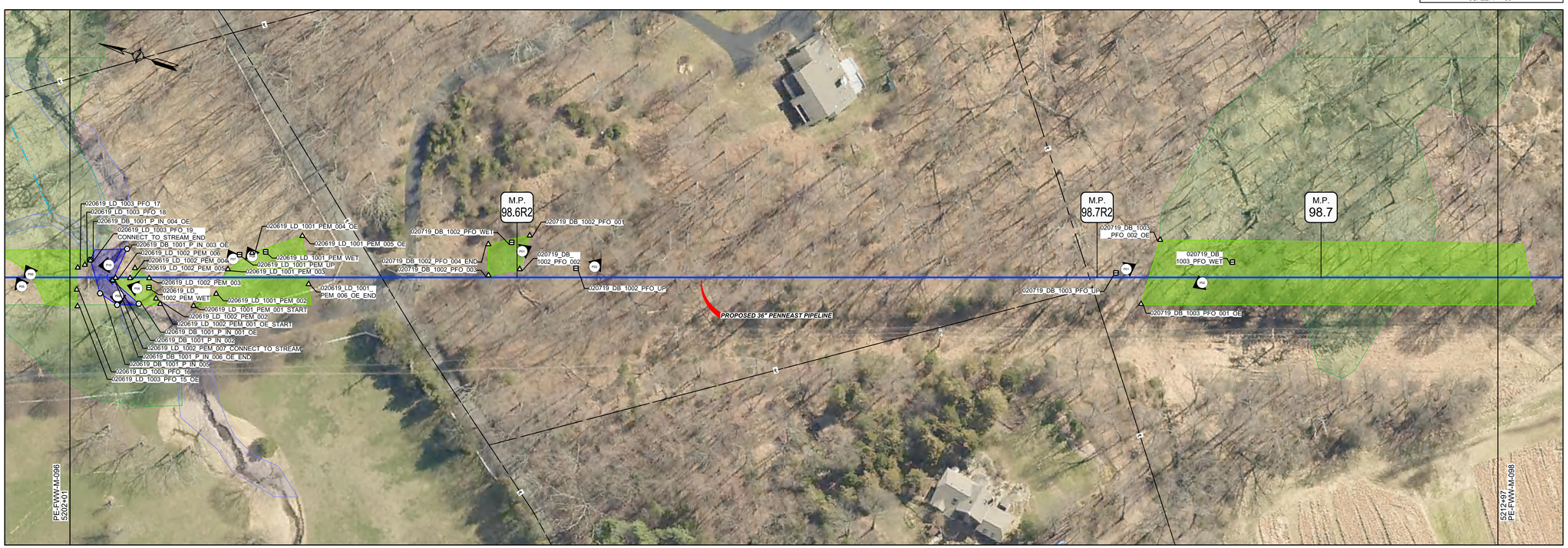

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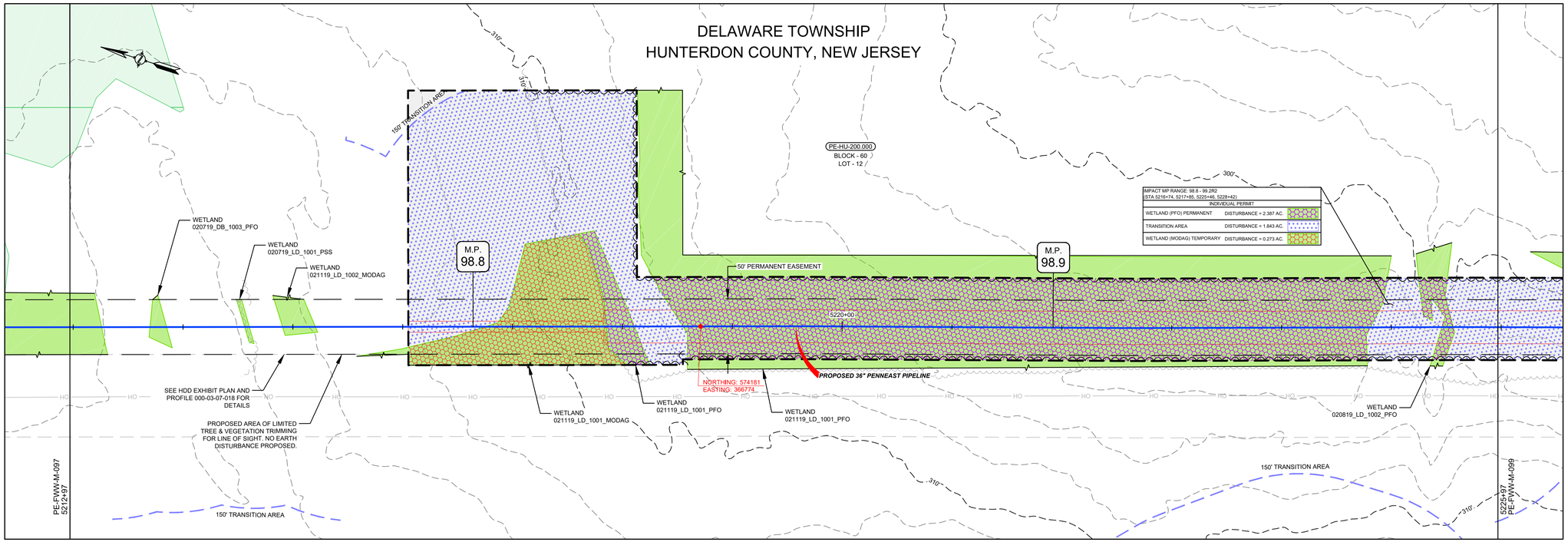
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 98.5R2 - MP 98.7

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



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

CLIENT APPROVAL — DATE 7/2019

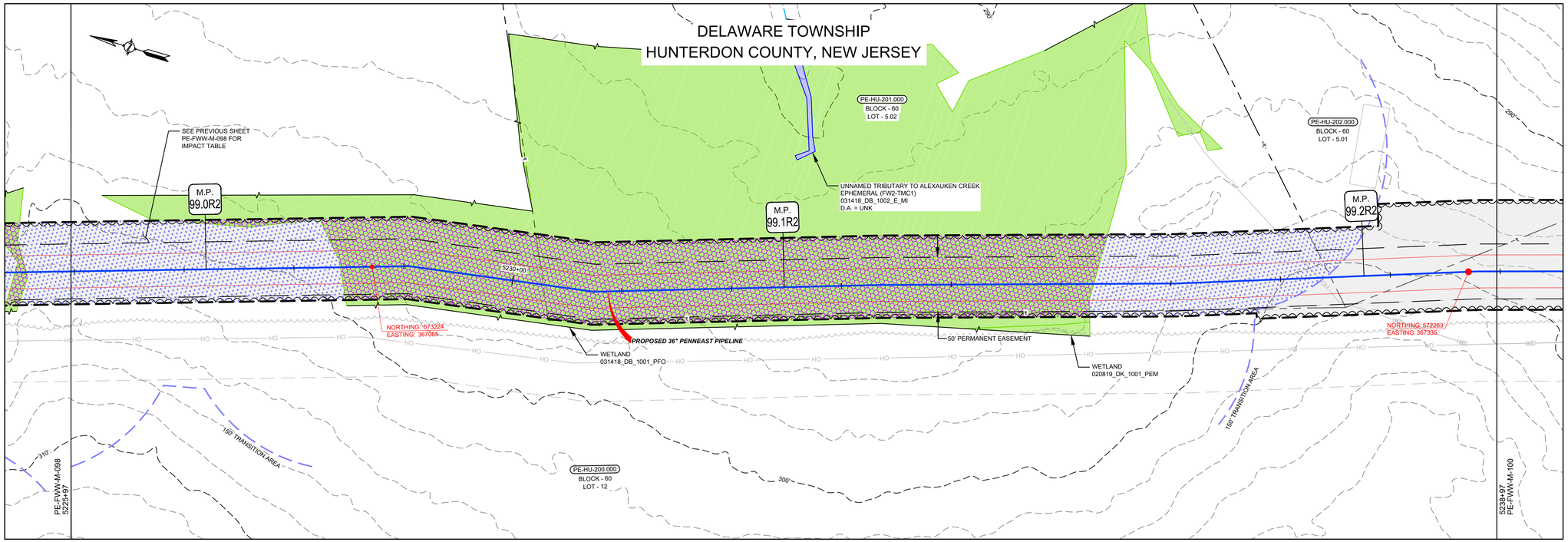
PREPARED FOR: PennEast Pipeline

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 98.7 - MP 99.0R2

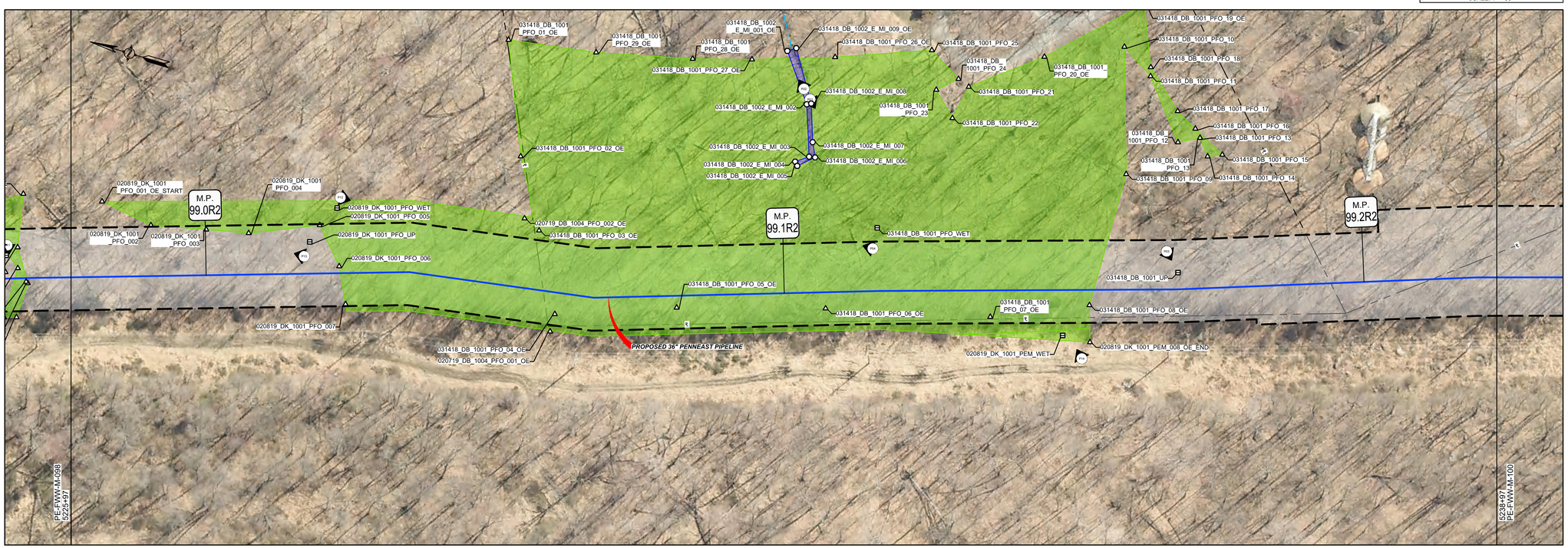
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-098	0



GRAPHIC SCALE

50' 25' 0 50'

SCALE: 1" = 50'



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PREPARED FOR PennEast PIPELINE

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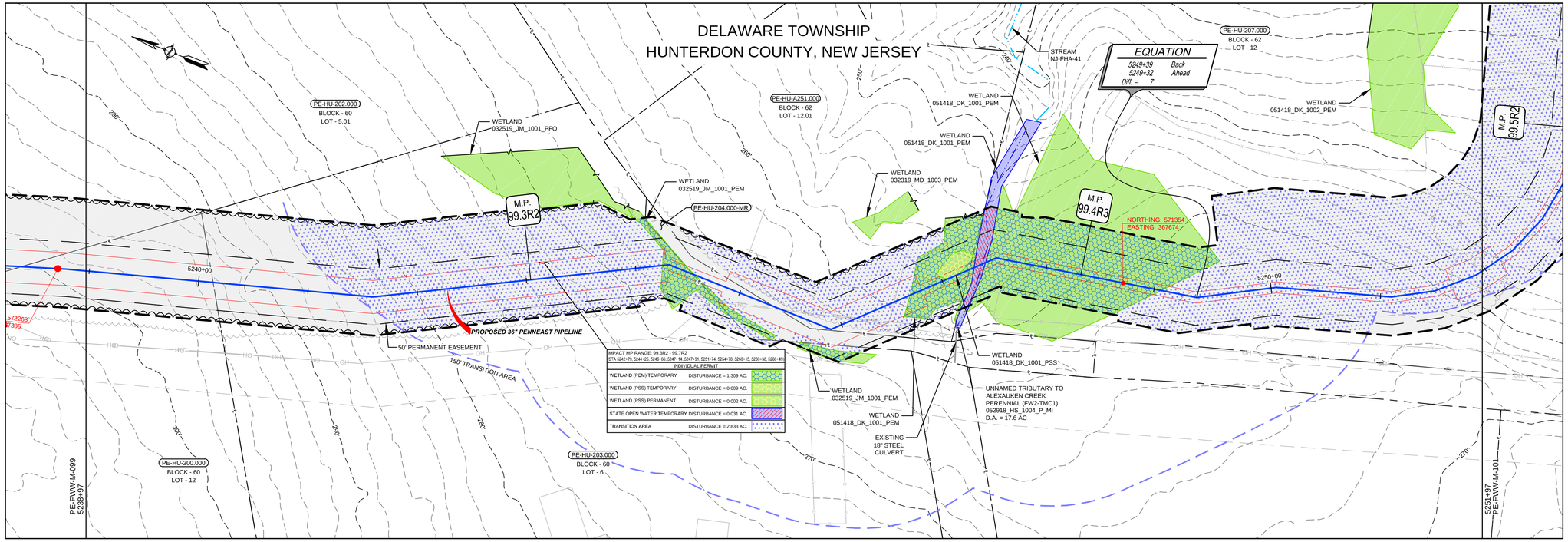
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 99.0R2 - MP 99.2R2

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



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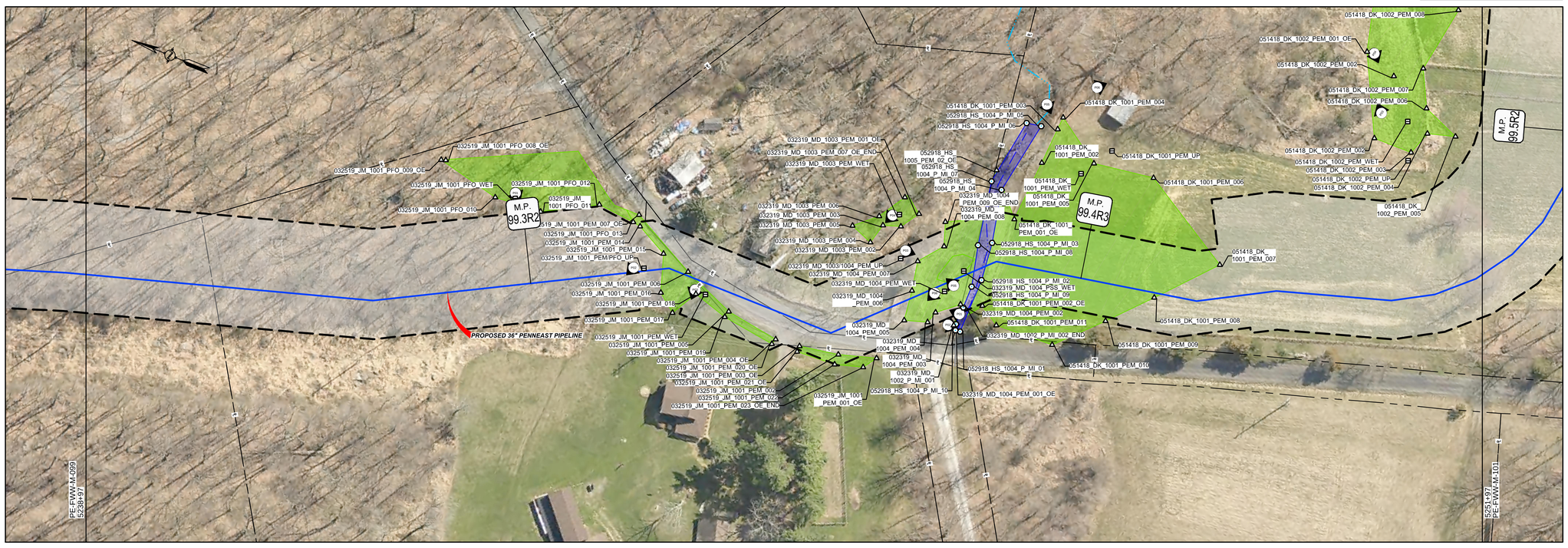

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PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
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PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 99.2R2 - MP 99.5R2

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