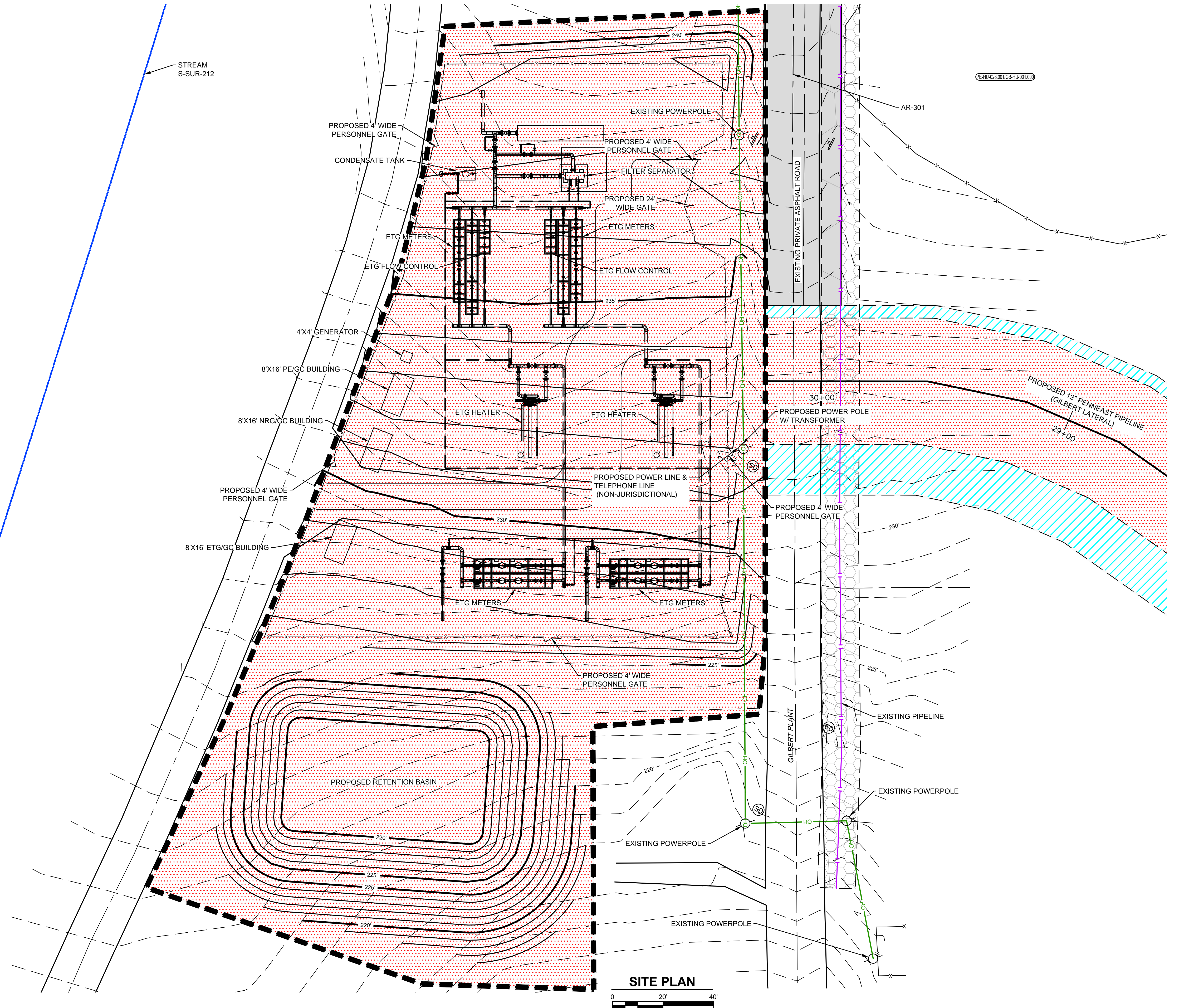
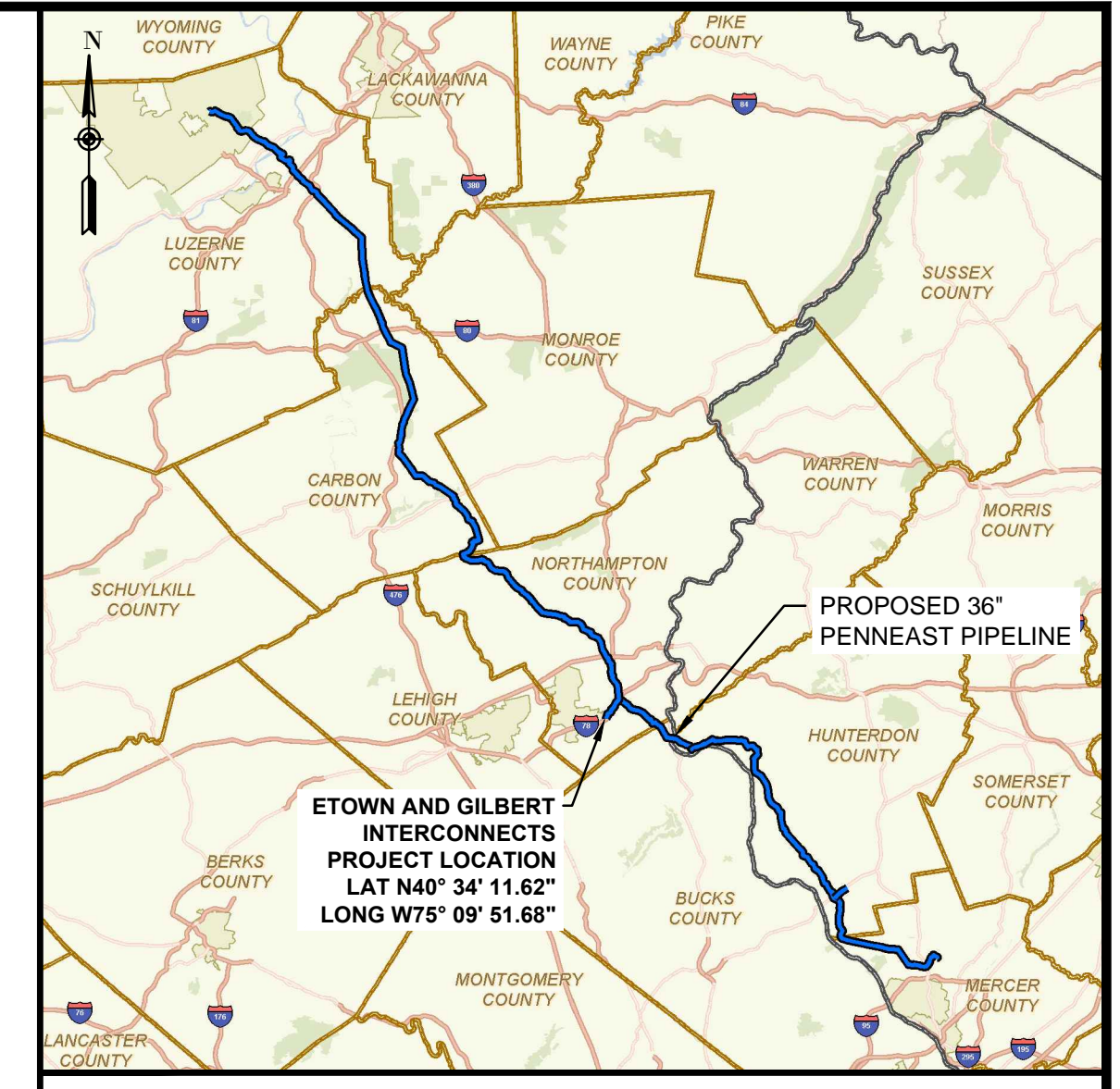


HUNTERDON COUNTY, NEW JERSEY



SITE PLAN
SCALE: 1" = 20'



LOCATION MAP
SCALE 1" = 15 MILES

LEGENDS

PROPOSED

- PROPOSED BELOW GROUND LINE
- PROPOSED ABOVE GROUND LINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- ABOVE GROUND LIMITS OF CONSTRUCTION
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED FENCE
- ACCESS ROAD
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS

EXISTING

- EXISTING PIPELINE/SITE
- PROPERTY LINE
- STREAM (PUBLIC)
- STREAM (DELINEATED)
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- WETLAND (PUBLIC)
- WETLAND (DELINEATED)
- WETLAND (AGRICULTURAL MODIFIED)
- EXISTING ROAD CENTERLINE
- EXISTING FENCE
- EXISTING UTILITY EASEMENT
- LINE LIST NUMBER
- WATERBODY (DELINEATED)
- WATERBODY (PUBLIC)

G:\PENNEAST\353754_PENNEAST_PIPELINE_EPC\MIDATA\PROD_FERC\WORK\DRAWING\SITE_LAYOUTS\GILBERT\025-03-00-001.DWG CZT7937

NOTES:
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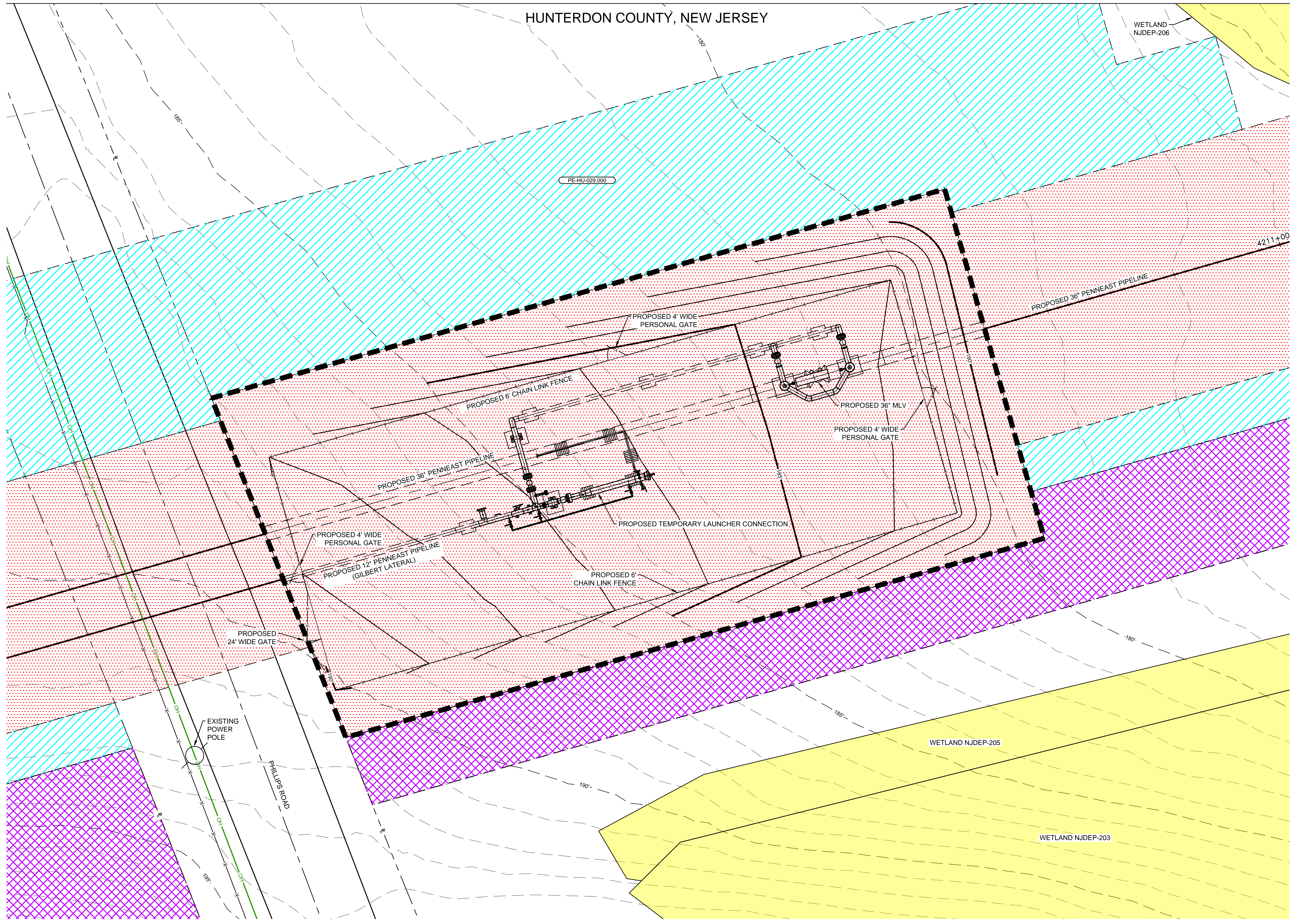
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		C	FERC DRAFT FILING	4/13/2015	QPS	QPS	QPS	DOW (MM)	09/2016
		D	FERC FINAL FILING	9/23/2015	HMM	HMM	HMM	ENG. APPROVAL	DATE
		E	ISSUED FOR BID	10/23/2015	HMM	HMM	HMM	MDN (MM)	09/2016
		F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM	P.M. APPROVAL	DATE
		G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM	MAW (MM)	09/2016
		H	ISSUED FOR FERC	09/16/2016	JAM (MM)	DOW (MM)	MDN (MM)		

PREPARED FOR

PENNEAST PIPELINE PROJECT		
CIVIL SITE PLAN		
ETOWN AND GILBERT INTERCONNECTS		
HUNTERDON COUNTY, NEW JERSEY		
SCALE	DRAWING NO.	REVISION
AS SHOWN	025-03-00-001	H



HUNTERDON COUNTY, NEW JERSEY



LOCATION MAP
SCALE 1" = 15 MILES

LEGENDS

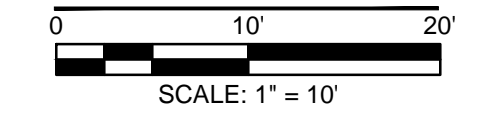
PROPOSED

- PROPOSED BELOW GROUND LINE
- PROPOSED ABOVE GROUND LINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- ABOVE GROUND LIMITS OF CONSTRUCTION
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED FENCE
- ACCESS ROAD
- 1260' PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS

EXISTING

- EXISTING PIPELINE/SITE
- PROPERTY LINE
- STREAM (PUBLIC)
- STREAM (DELINEATED)
- 1260' EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- OH EXISTING OVERHEAD LINE
- WETLAND (PUBLIC)
- WETLAND (DELINEATED)
- WETLAND (AGRICULTURAL MODIFIED)
- EXISTING ROAD CENTERLINE
- EXISTING FENCE
- EXISTING UTILITY EASEMENT
- PE-HU-029.000 LINE LIST NUMBER
- WATERBODY (DELINEATED)
- WATERBODY (PUBLIC)

SITE PLAN



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REFERENCE DRAWINGS		REVISIONS				APPROVALS	
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		E	ISSUED FOR BID	10/23/2015	HMM	HMM	HMM
		F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM
		G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM
		H	ISSUED FOR FERC	09/16/2016	JAM (MM)	DOW (MM)	MDN (MM)

PREPARED FOR

CLIENT APPROVAL

DATE

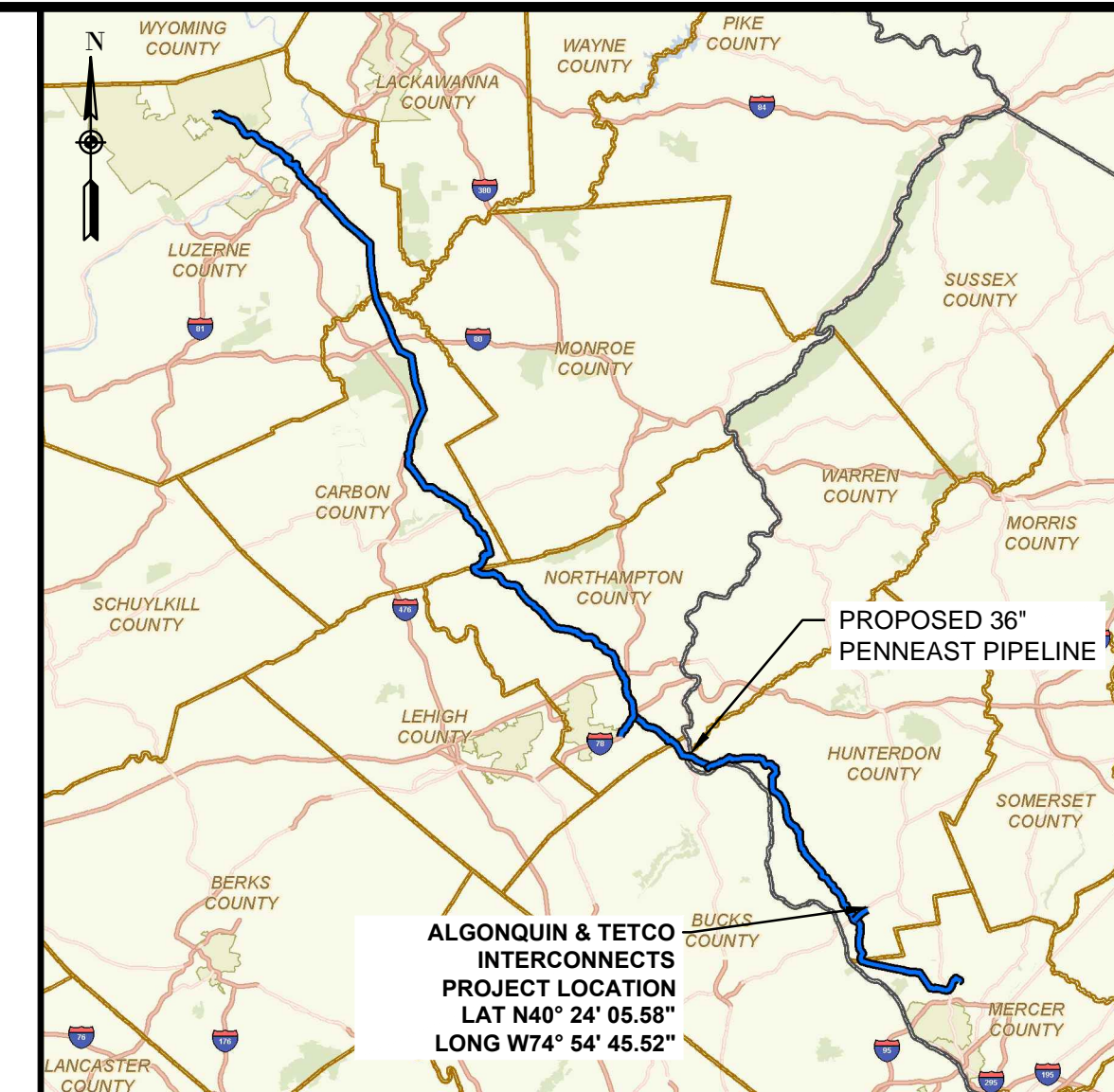
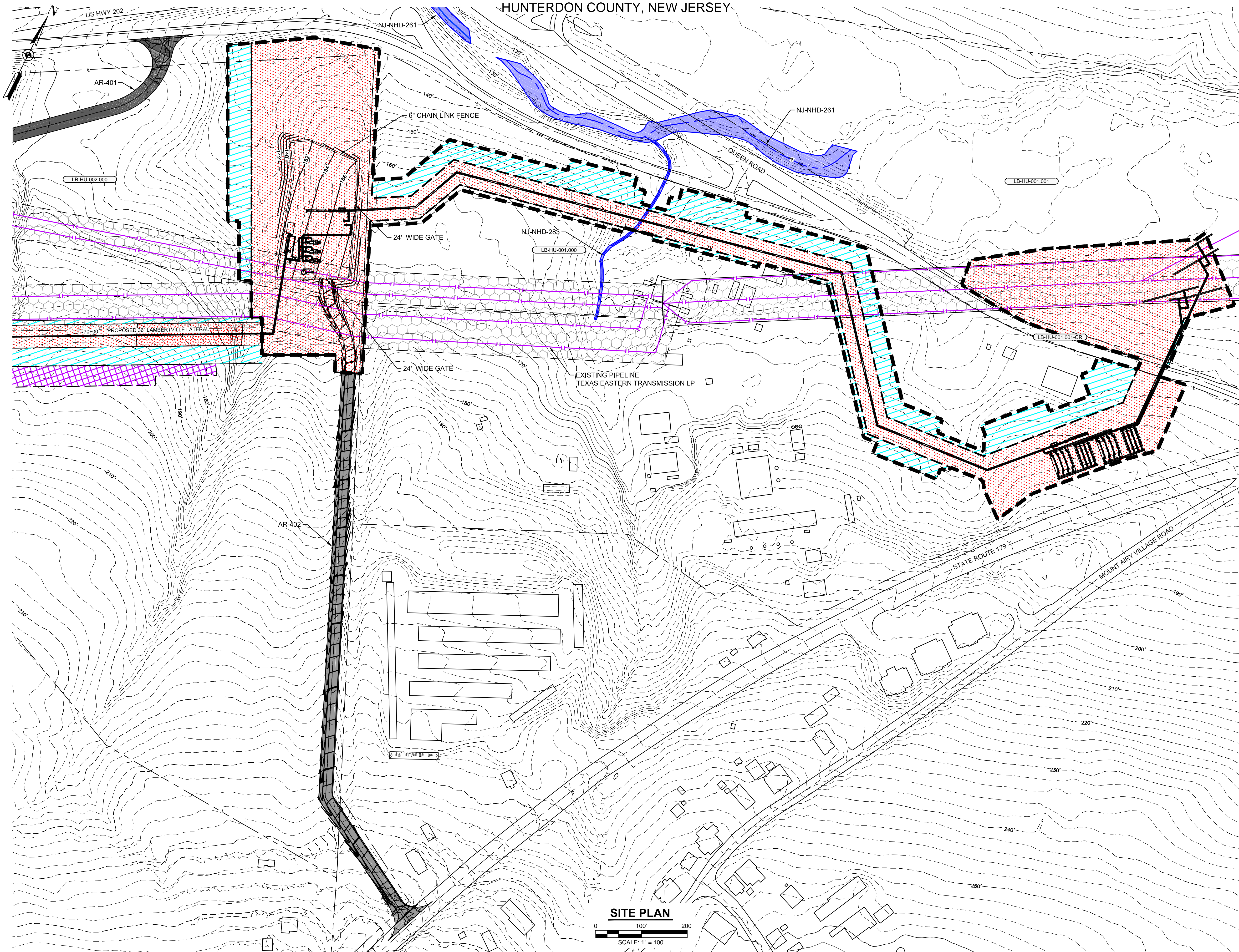
PENNEAST PIPELINE PROJECT

CIVIL SITE PLAN
 GILBERT LATERAL
 TAP SITE / MAINLINE BLOCK VALVE 9
 HUNTERDON COUNTY, NEW JERSEY

SCALE	DRAWING NO.	REVISION
AS SHOWN	025-03-00-003	H

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HUNTERDON COUNTY, NEW JERSEY



LOCATION MAP
SCALE: 1"=15 MILES

LEGENDS

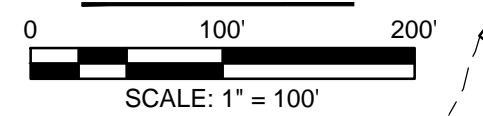
PROPOSED

- PROPOSED BELOW GROUND LINE
- PROPOSED ABOVE GROUND LINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- ABOVE GROUND LIMITS OF CONSTRUCTION
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED FENCE
- ACCESS ROAD
- 1260' PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS

EXISTING

- EXISTING PIPELINE/SITE
- PROPERTY LINE
- STREAM (PUBLIC)
- STREAM (DELINEATED)
- 1260' EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- OH EXISTING OVERHEAD LINE
- WETLAND (PUBLIC)
- WETLAND (DELINEATED)
- WETLAND (AGRICULTURAL MODIFIED)
- EXISTING ROAD CENTERLINE
- EXISTING FENCE
- EXISTING UTILITY EASEMENT
- LINE LIST NUMBER
- WATERBODY (DELINEATED)
- WATERBODY (PUBLIC)

SITE PLAN



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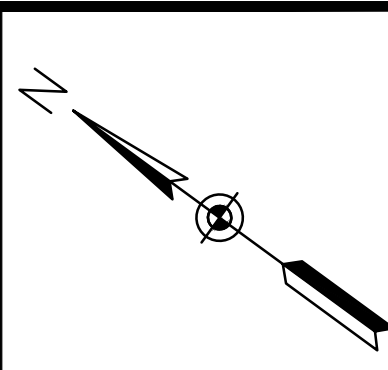
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		D	FERC FINAL FILING	9/23/2015	HMM	HMM	HMM	ENS. APPROVAL	DATE
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		F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM	P.M. APPROVAL	DATE
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PREPARED FOR

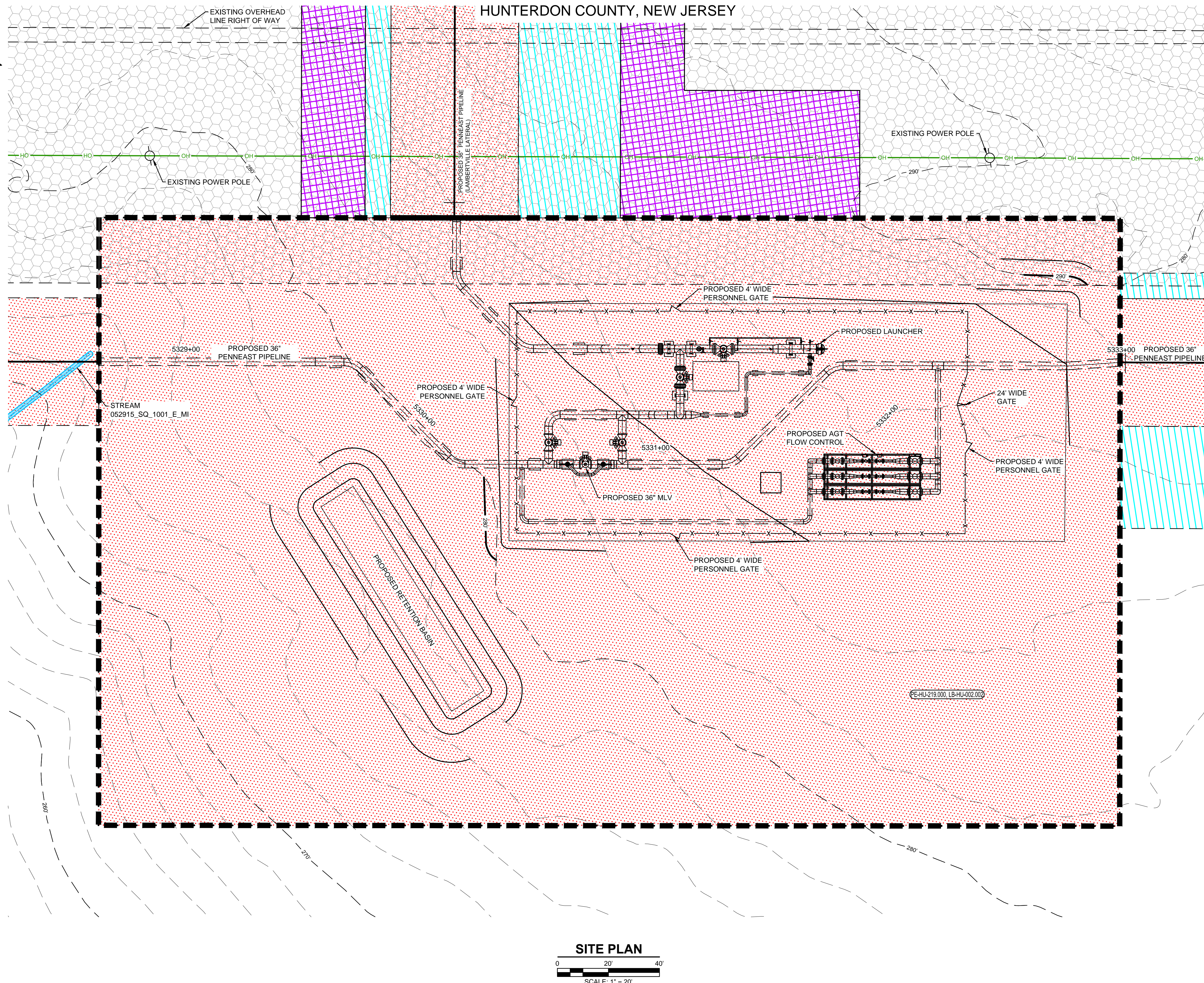
PennEast
PIPELINE

PENNEAST PIPELINE PROJECT		
CIVIL SITE PLAN ALGONQUIN & TETCO INTERCONNECTS HUNTERDON COUNTY, NEW JERSEY		
SCALE	DRAWING NO.	REVISION
AS SHOWN	026-03-00-001	H

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HUNTERDON COUNTY, NEW JERSEY



SITE PLAN
 0 20' 40'
 SCALE: 1" = 20'



LOCATION MAP
 SCALE 1" = 15 MILES

LEGENDS

PROPOSED

- PROPOSED BELOW GROUND LINE
- PROPOSED ABOVE GROUND LINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- ABOVE GROUND LIMITS OF CONSTRUCTION
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED FENCE
- ACCESS ROAD
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS

EXISTING

- EXISTING PIPELINE/SITE
- PROPERTY LINE
- STREAM (PUBLIC)
- STREAM (DELINEATED)
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- OH EXISTING OVERHEAD LINE
- WETLAND (PUBLIC)
- WETLAND (DELINEATED)
- WETLAND (AGRICULTURAL MODIFIED)
- EXISTING ROAD CENTERLINE
- EXISTING FENCE
- EXISTING UTILITY EASEMENT
- LINE LIST NUMBER
- WATERBODY (DELINEATED)
- WATERBODY (PUBLIC)

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NOTES:
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REFERENCE DRAWINGS		REVISIONS				APPROVALS	
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		G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM
		H	ISSUED FOR FERC	09/16/2016	JAM (MM)	DOW (MM)	MDN (MM)

APPROVALS		CLIENT APPROVAL	
DRAWN BY	DATE	DATE	DATE
DRG (MM)	09/2016		
CHECKED BY	DATE		
DOW (MM)	09/2016		
ENS. APPROVAL	DATE		
MDN (MM)	09/2016		
P.M. APPROVAL	DATE		
MAV (MM)	09/2016		

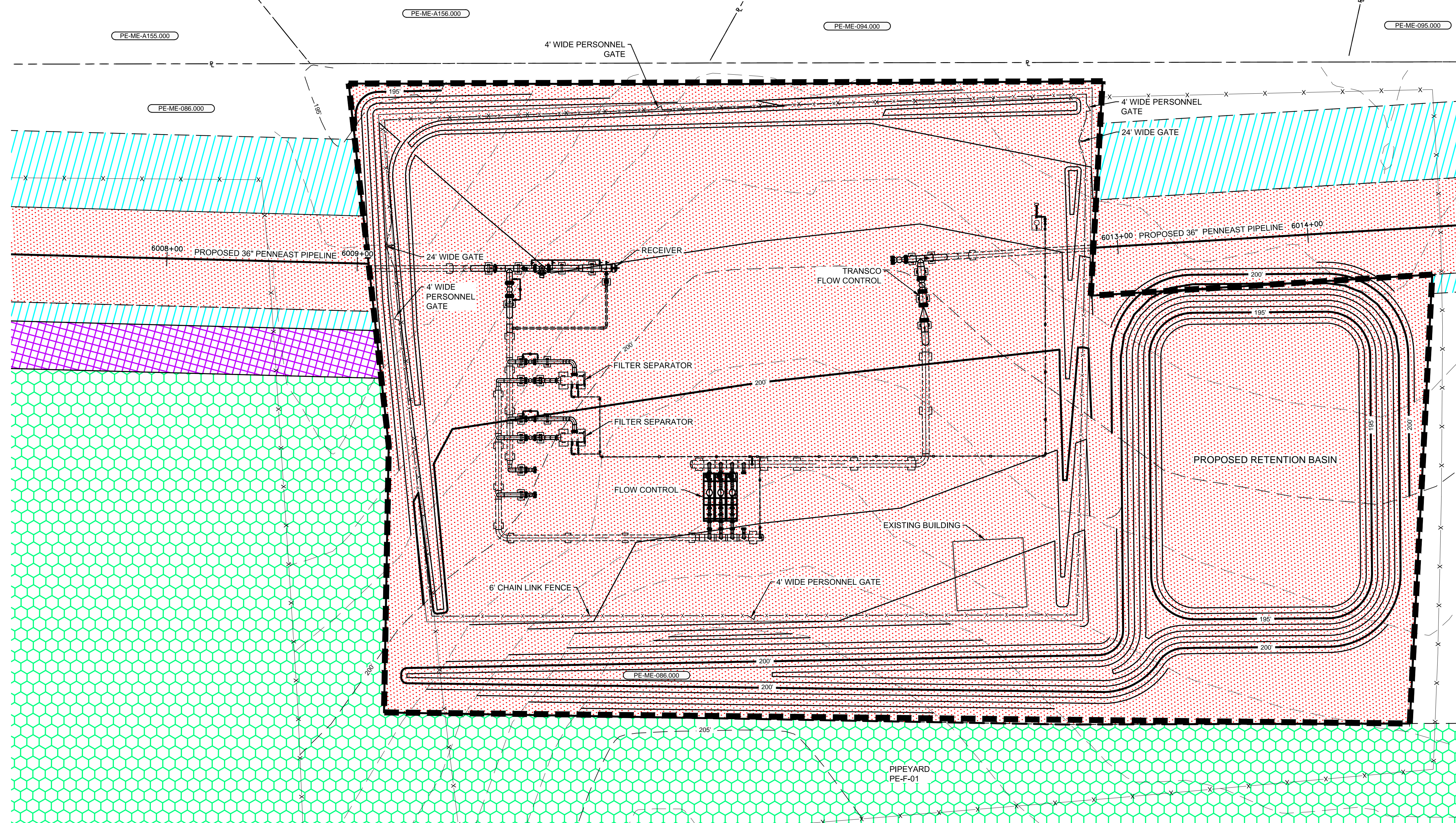
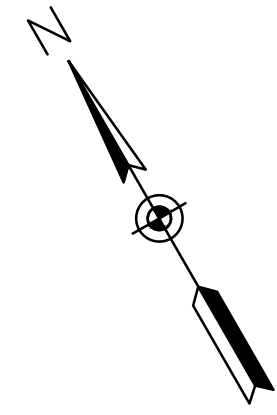
PREPARED FOR

PENNEAST PIPELINE PROJECT

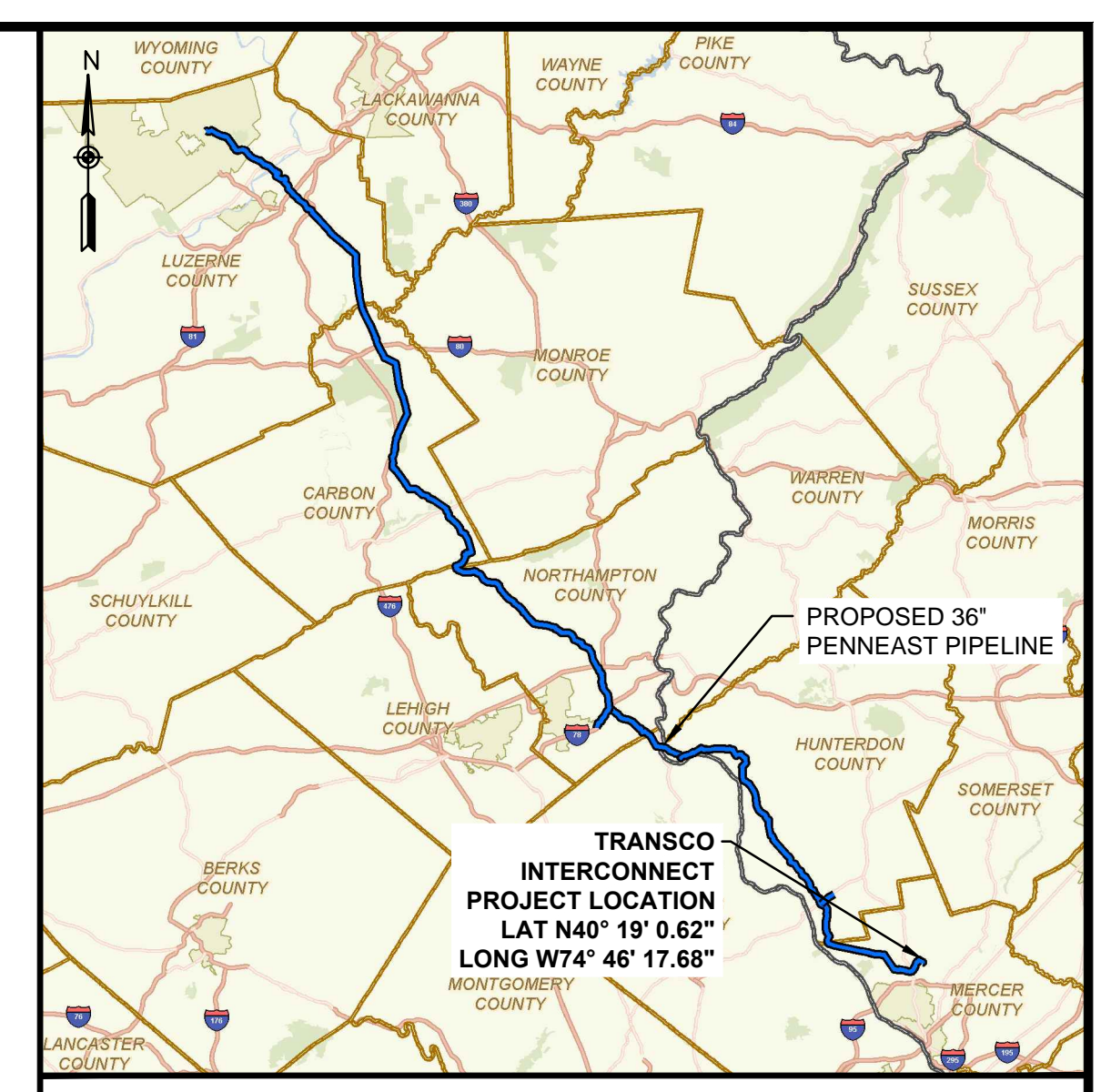
CIVIL SITE PLAN
 LAMBERTVILLE LAUNCHER
 SITE/MAINLINE BLOCK VALVE 11
 HUNTERDON COUNTY, NEW JERSEY

SCALE	DRAWING NO.	REVISION
AS SHOWN	026-03-00-003	H

MERCER COUNTY, NEW JERSEY



SITE PLAN
 0 30' 60'
 SCALE: 1" = 30'



LOCATION MAP
 SCALE 1" = 15 MILES

LEGENDS

- PROPOSED**
- PROPOSED BELOW GROUND LINE
 - PROPOSED ABOVE GROUND LINE
 - PROPOSED PERMANENT EASEMENT
 - TEMPORARY WORKSPACE
 - ADDITIONAL TEMPORARY WORKSPACE
 - ABOVE GROUND LIMITS OF CONSTRUCTION
 - ROCK CONSTRUCTION ENTRANCE
 - PROPOSED PIPEYARD
 - PROPOSED STAGING AREA
 - PROPOSED FENCE
 - ACCESS ROAD
 - 1260' PROPOSED MAJOR CONTOURS
 - PROPOSED MINOR CONTOURS
- EXISTING**
- EXISTING PIPELINE/SITE
 - PROPERTY LINE
 - STREAM (PUBLIC)
 - STREAM (DELINEATED)
 - 1260' EXISTING MAJOR CONTOURS
 - EXISTING MINOR CONTOURS
 - EXISTING PIPELINE
 - OH EXISTING OVERHEAD LINE
 - WETLAND (PUBLIC)
 - WETLAND (DELINEATED)
 - WETLAND (AGRICULTURAL MODIFIED)
 - EXISTING ROAD CENTERLINE
 - EXISTING FENCE
 - EXISTING UTILITY EASEMENT
 - LINE LIST NUMBER
 - WATERBODY (DELINEATED)
 - WATERBODY (PUBLIC)

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- NOTES:**
1. THE CONTOURS SHOWN WERE PROVIDED BY PICTOMETRY, 2015. ADDITIONAL CONTOURS WERE SUPPLEMENTED FROM PASDA, USGS, AND SURVEY FROM MOTT MACDONALD.
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REFERENCE DRAWINGS		REVISIONS					APPROVALS		
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		D	FERC FINAL FILING	9/23/2015	HMM	HMM	HMM	ENG. APPROVAL	DATE
		E	ISSUED FOR BID	10/23/2015	HMM	HMM	HMM	MDN (MM)	09/2016
		F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM	P.M. APPROVAL	DATE
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		H	ISSUED FOR FERC	09/16/2016	JAM (MM)	DOW (MM)	MDN (MM)		

PREPARED FOR

CLIENT APPROVAL

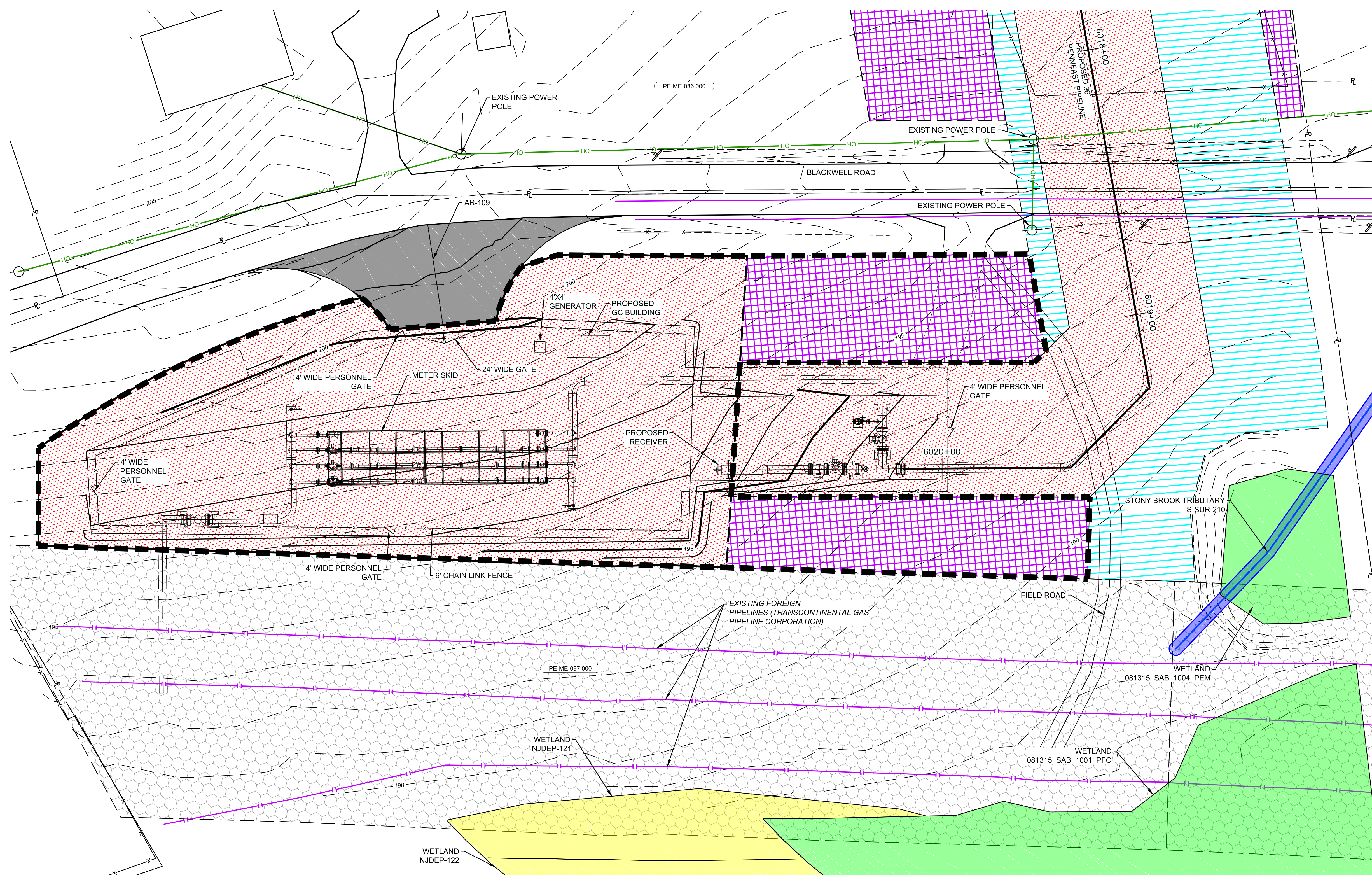
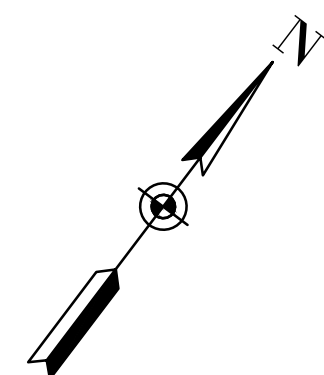
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PENNEAST PIPELINE PROJECT

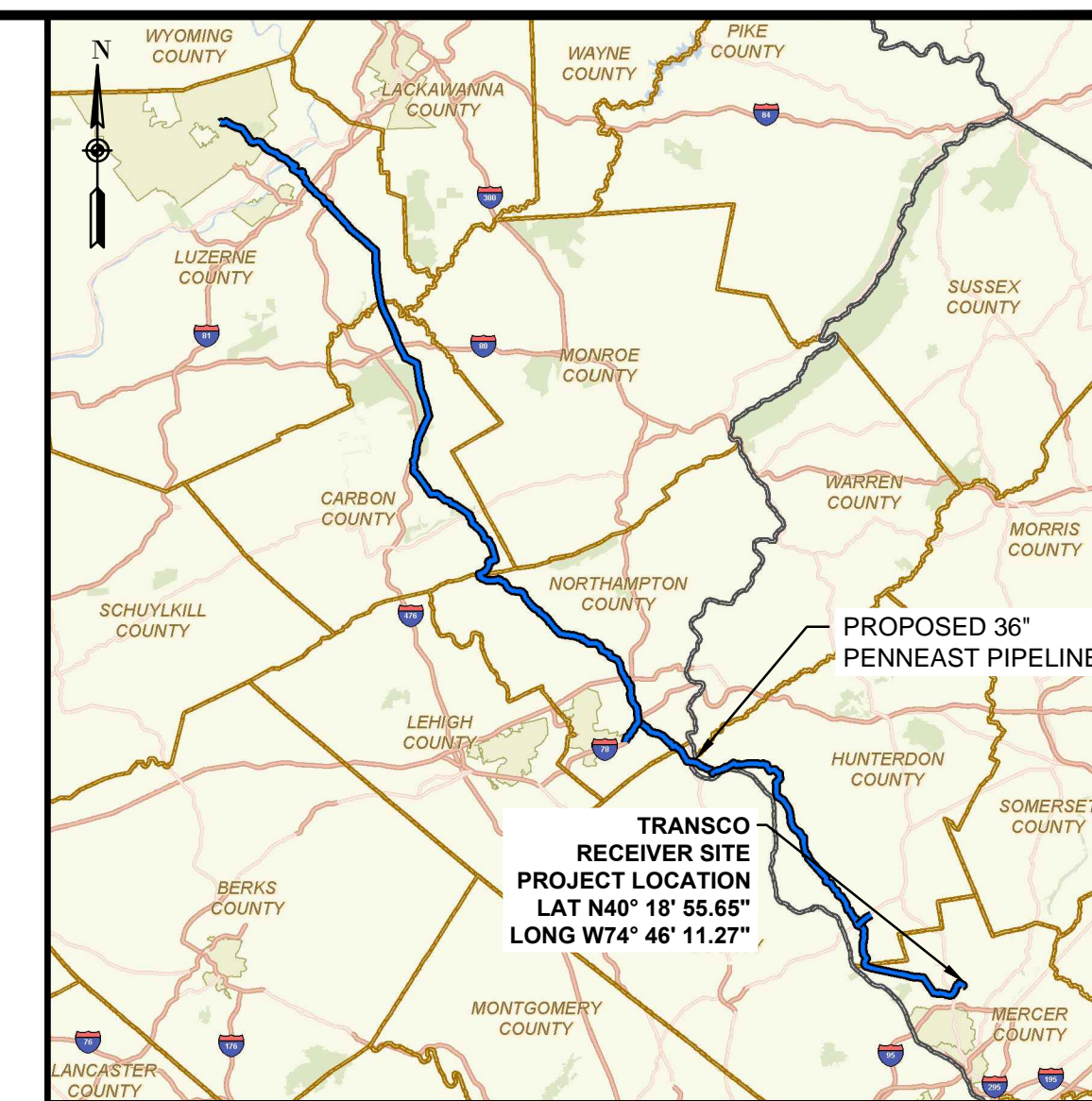
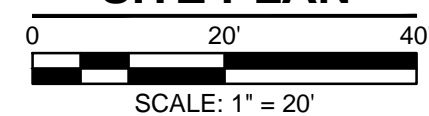
CIVIL SITE PLAN
 TRANSCO INTERCONNECT
 MERCER COUNTY, NEW JERSEY

SCALE	DRAWING NO.	REVISION
AS SHOWN	027-03-00-001	H

MERCER COUNTY, NEW JERSEY



SITE PLAN



LOCATION MAP

SCALE 1" = 15 MILES

LEGENDS

PROPOSED

- PROPOSED BELOW GROUND LINE
- PROPOSED ABOVE GROUND LINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- ABOVE GROUND LIMITS OF CONSTRUCTION
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED FENCE
- ACCESS ROAD
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS

EXISTING

- EXISTING PIPELINE/SITE
- PROPERTY LINE
- STREAM (PUBLIC)
- STREAM (DELINEATED)
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- WETLAND (PUBLIC)
- WETLAND (DELINEATED)
- WETLAND (AGRICULTURAL MODIFIED)
- EXISTING ROAD CENTERLINE
- EXISTING FENCE
- EXISTING UTILITY EASEMENT
- LINE LIST NUMBER
- WATERBODY (DELINEATED)
- WATERBODY (PUBLIC)

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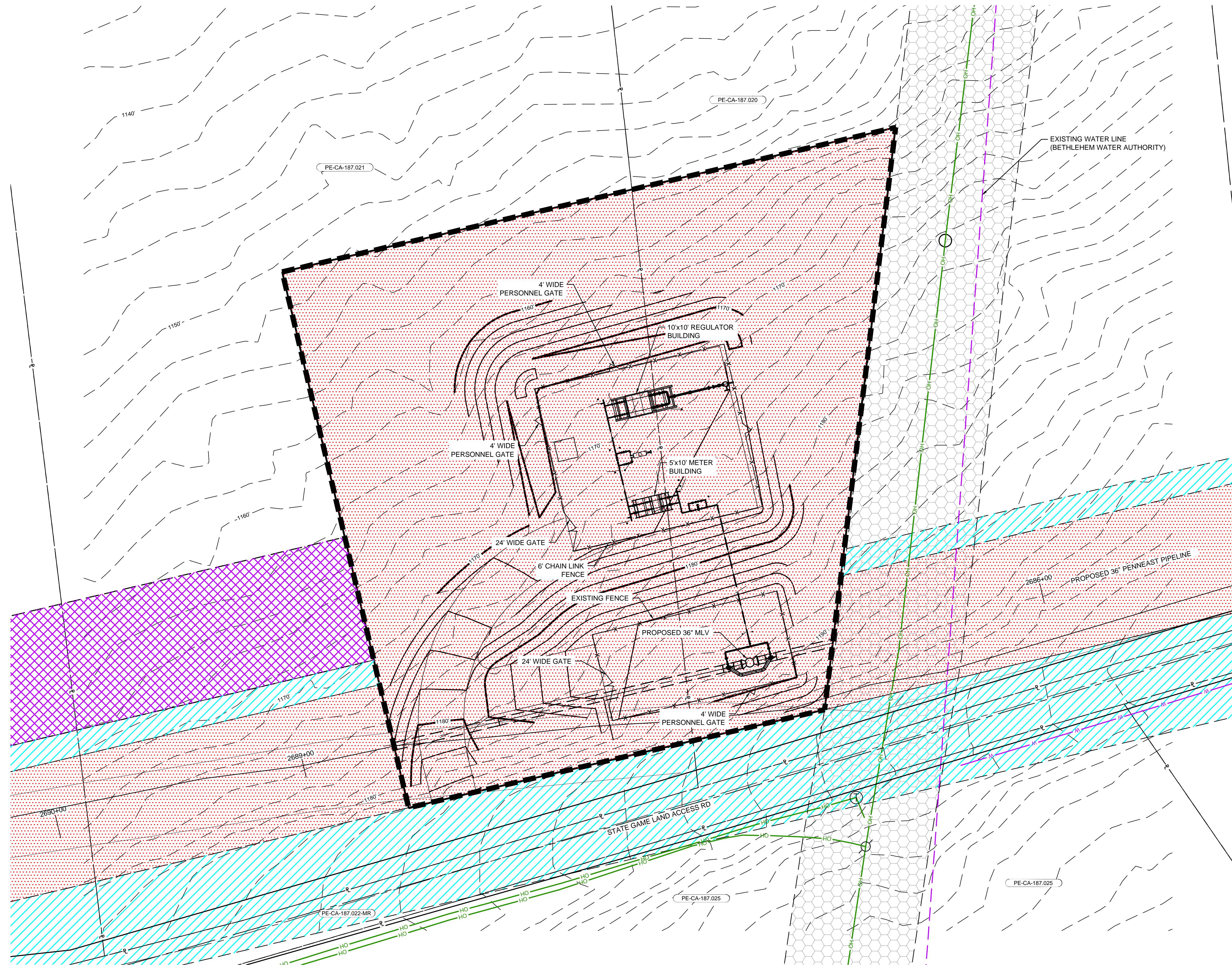
- NOTES:
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REFERENCE DRAWINGS		REVISIONS						APPROVALS	
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
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		D	FERC FINAL FILING	9/23/2015	HMM	HMM	HMM	ENS. APPROVAL	DATE
		E	ISSUED FOR BID	10/23/2015	HMM	HMM	HMM	MDN (MM)	09/2016
		F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM	P.M. APPROVAL	DATE
		G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM	MAW (MM)	09/2016
		H	ISSUED FOR FERC	09/16/2016	JAM (MM)	DOW (MM)	MDN (MM)		

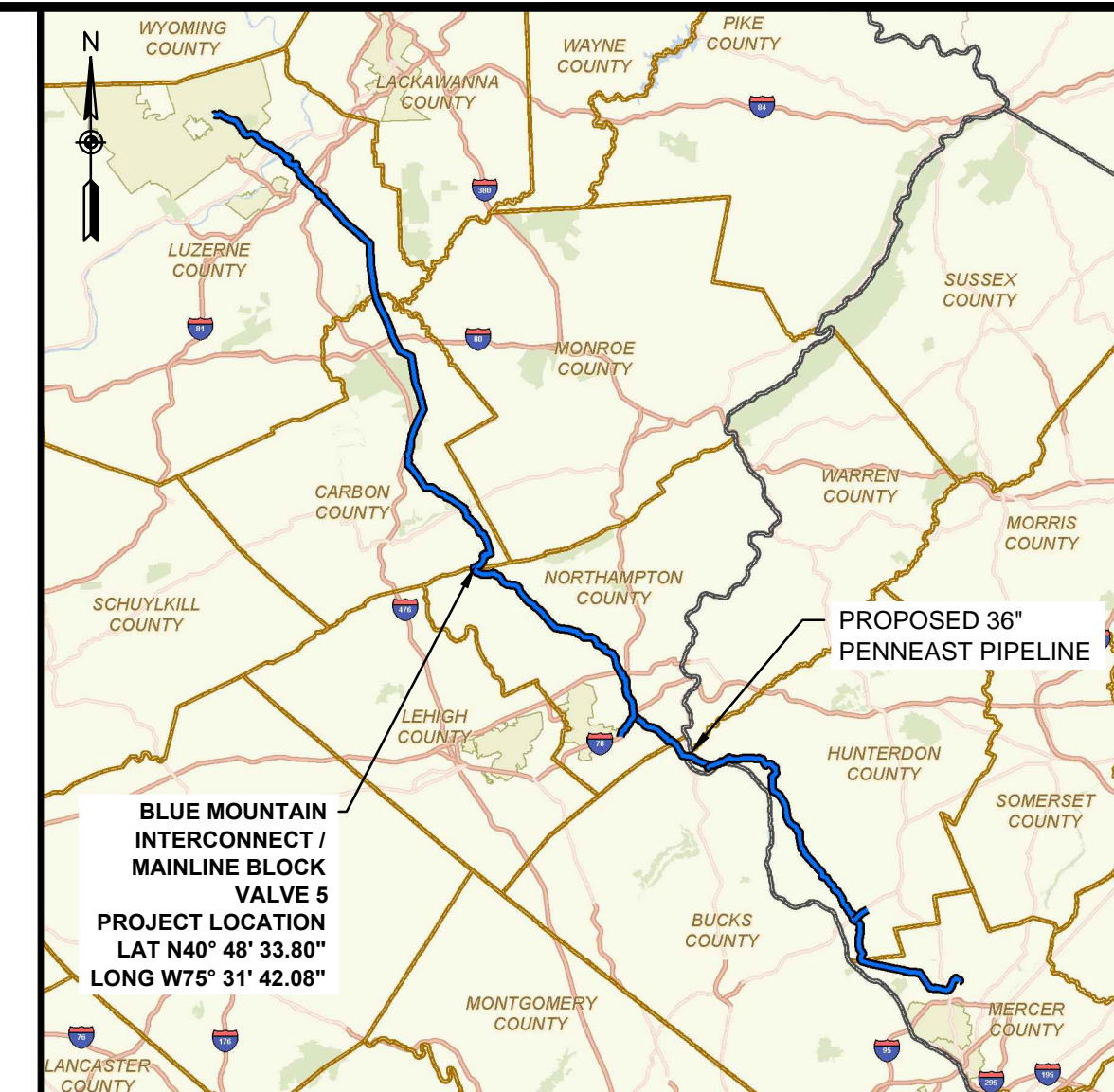
PREPARED FOR

PENNEAST PIPELINE PROJECT		
CIVIL SITE PLAN		
TRANSCO RECEIVER SITE		
MERCER COUNTY, NEW JERSEY		
SCALE	DRAWING NO.	REVISION
AS SHOWN	027-03-00-002	H

CARBON COUNTY, PENNSYLVANIA



SITE PLAN
 0 20' 40'
 SCALE: 1" = 20'



LOCATION MAP
 SCALE 1" = 15 MILES

LEGENDS

PROPOSED

- PROPOSED BELOW GROUND LINE
- PROPOSED ABOVE GROUND LINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- ABOVE GROUND LIMITS OF CONSTRUCTION
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED FENCE
- ACCESS ROAD
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS

EXISTING

- EXISTING PIPELINE/SITE
- PROPERTY LINE
- STREAM (PUBLIC)
- STREAM (DELINEATED)
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- WETLAND (PUBLIC)
- WETLAND (DELINEATED)
- WETLAND (AGRICULTURAL MODIFIED)
- EXISTING ROAD CENTERLINE
- EXISTING FENCE
- EXISTING UTILITY EASEMENT
- LINE LIST NUMBER
- WATERBODY (DELINEATED)
- WATERBODY (PUBLIC)

- NOTES:**
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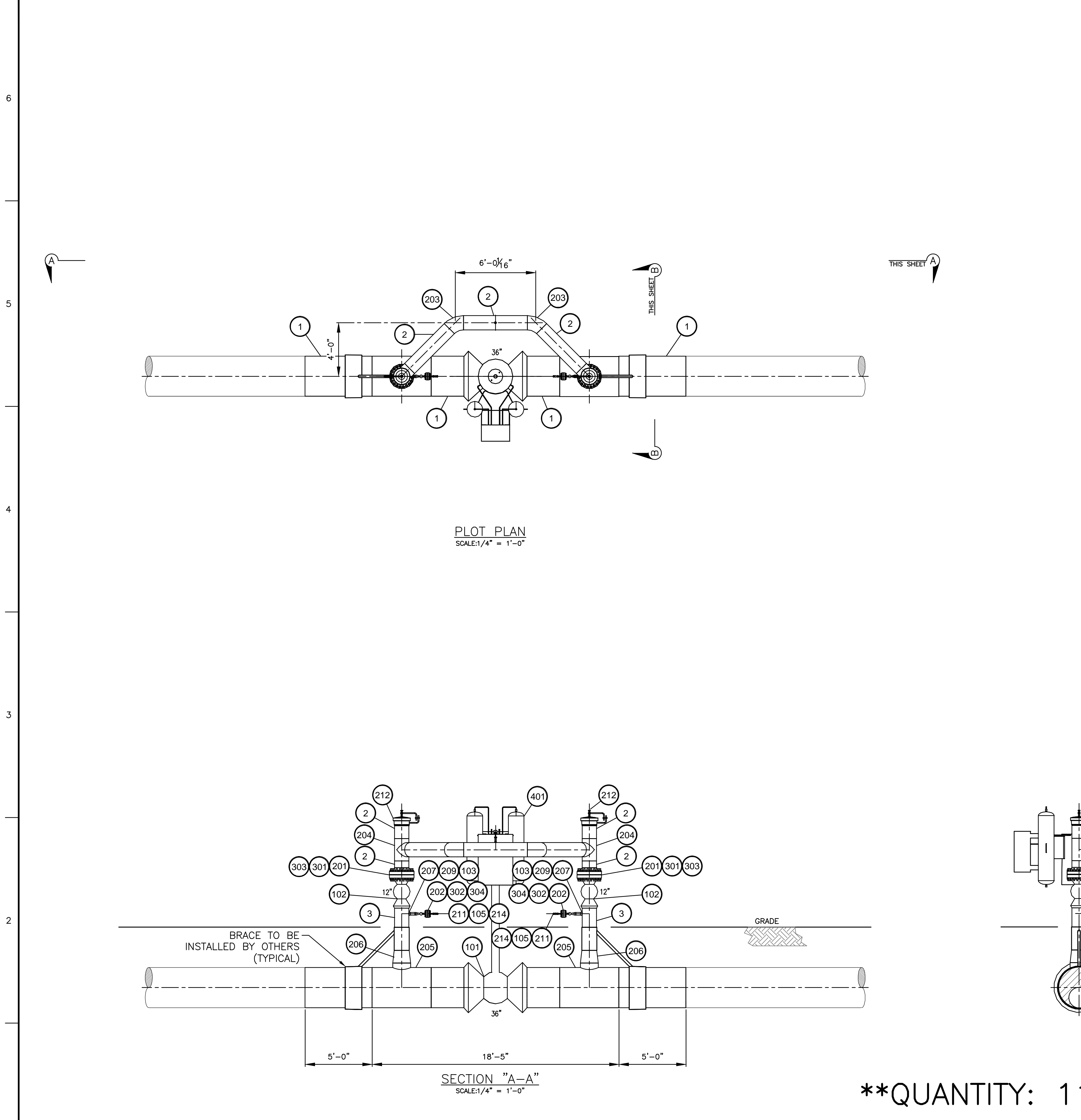
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		B	PRELIMINARY ISSUE	12/17/2014	QPS	QPS	QPS
		C	FERC DRAFT FILING	4/13/2015	QPS	QPS	QPS
		D	FERC FINAL FILING	9/23/2015	HMM	HMM	HMM
		E	ISSUED FOR BID	10/23/2015	HMM	HMM	HMM
		F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM
		G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM
		H	ISSUED FOR FERC	09/16/2016	JAM (MM)	DOW (MM)	MDN (MM)

APPROVALS		CLIENT APPROVAL
DRAWN BY	DATE	
DRG (MM)	09/2016	[Signature]
CHECKED BY	DATE	
DOW (MM)	09/2016	[Signature]
ENG. APPROVAL	DATE	
MDN (MM)	09/2016	[Signature]
P.M. APPROVAL	DATE	
MAW (MM)	09/2016	[Signature]

PREPARED FOR

PENNEAST PIPELINE PROJECT		
CIVIL SITE PLAN BLUE MOUNTAIN INTERCONNECT / MAINLINE BLOCK VALVE 5 CARBON COUNTY, PENNSYLVANIA		
SCALE	DRAWING NO.	REVISION
AS SHOWN	028-03-00-001	H

G:\PENNEAST\PIPELINE_EPC\MIDAT\PROD_FERC\WORK\DRAWING\SITE_LAYOUTS\BLUEMOUNTAIN_INTERCONNECT & MLV 5\028-03-00-001.DWG WAT73657

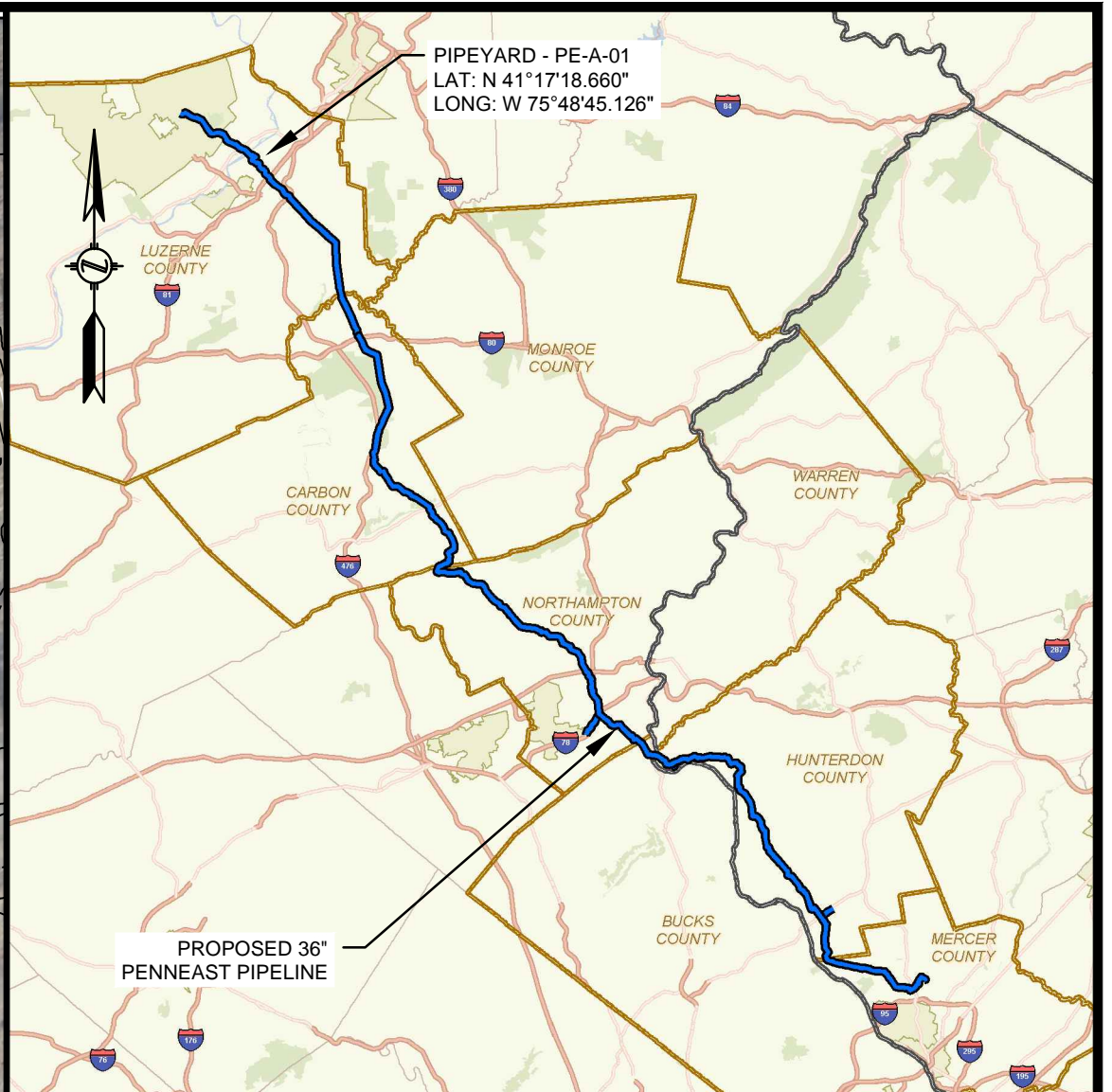
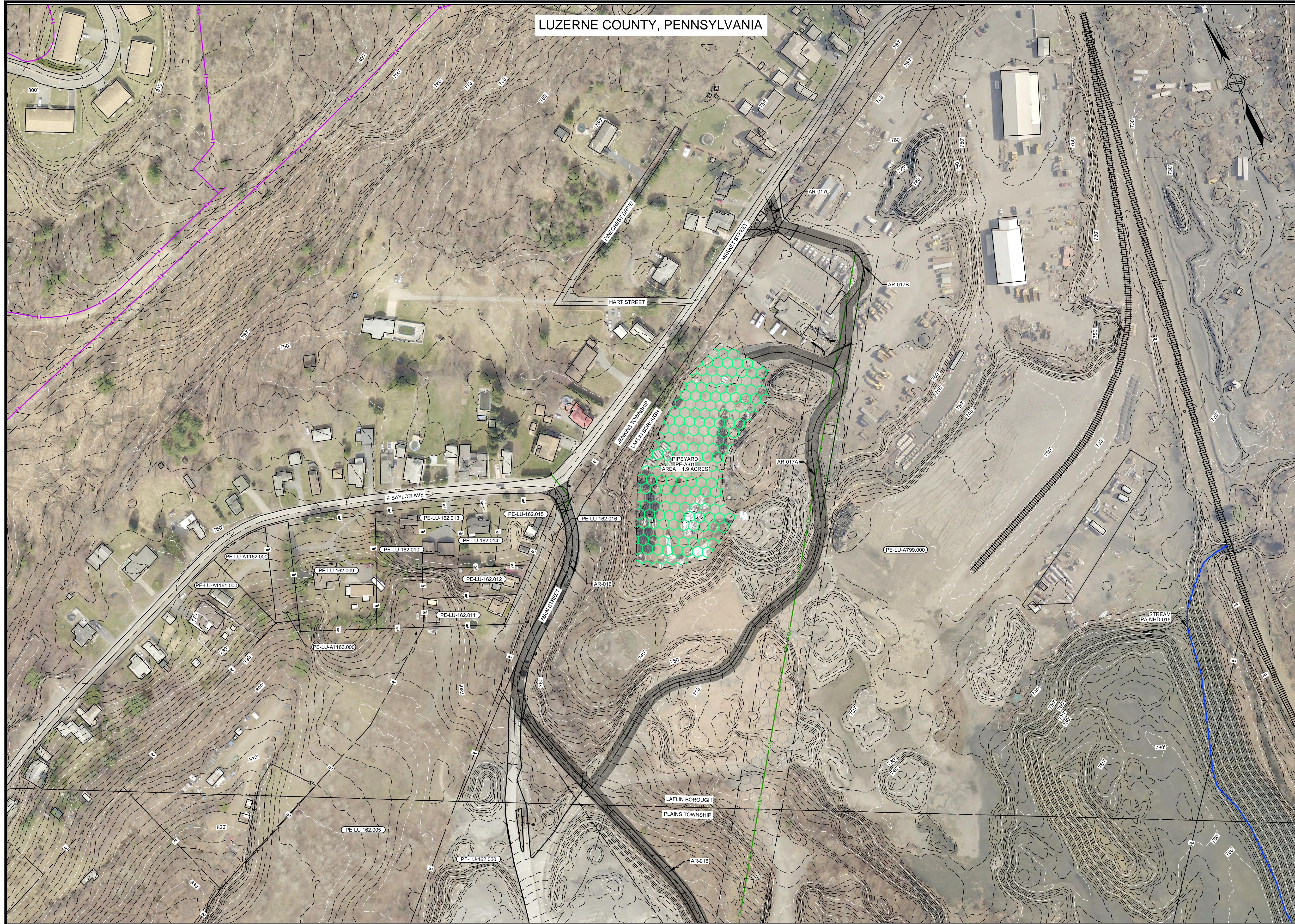


PENN EAST - MLV - BOM					
PIPE					
NO	QTY	UNIT	SIZE	DESCRIPTION	TAG NUMBER/NOTES
1	15	FT	36"	PIPE, 36", 0.875" WT, DSAW, API 5L PSL-2 X65, COATED, 14-16 MIL FBE	
2	20	FT	12"	PIPE, 12", 0.375" WT, SMLS, API 5L PSL-2 X52, BARE	
3	10	FT	12"	PIPE, 12", 0.375" WT, SMLS, API 5L PSL-2 X52, COATED, 14-16 MIL FBE	
VALVES					
NO	QTY	UNIT	SIZE	DESCRIPTION	TAG NUMBER/NOTES
101	1	EA	36"	VALVE, BALL, 36", WE, CL 600, API 6D, CARBON STEEL, FULL PORT, 0.875" WT, X65 TRANSITION PIPE, GEAR OPERATOR WITH HANDWHEEL, (FOR ASSEMBLY TESTING), CLEANED AND SHOP-PRIMED, FBE COATED, CAMERON T31 OR EQUAL (TO BE ORDERED WITH 84" STEM EXTENSION FROM CENTERLINE OF VALVE TO TOP OF EXTENSION)	FURNISHED BY COMPANY
102	2	EA	12"	VALVE, BALL, 12", RF X WE, CL 600, API 6D, CARBON STEEL, FULL PORT, GEAR OPERATOR & HANDWHEEL, CLEANED AND SHOP-PRIMED, CAMERON T31 OR EQUAL, 0.375 WT, X52 TRANSITION PIPE	FURNISHED BY COMPANY
103	2	EA	2"	VALVE, BALL, 2", RF X WE, CL 600, API 6D, CARBON STEEL, FULL PORT, LEVER OPERATOR & LOCKING DEVICE, CLEANED AND SHOP-PRIMED, CAMERON T31 OR EQUAL, 0.218 WT, GR B TRANSITION PIPE	
104	1	EA	1"	VALVE, BALL, 1", FSW X FNPT, 3000 PSIG WP MIN, ASME B16.34, CARBON STEEL, FULL PORT, PRESSURE-BALANCED BALL, LEVER OPERATOR & LOCKING DEVICE, APOLLO SERIES 83A OR EQUAL	
105	2	EA	1/2"	VALVE, BALL, 1/2", FSW X FNPT, 3000 PSIG WP MIN, ASME B16.34, CARBON STEEL, FULL PORT, PRESSURE-BALANCED BALL, LEVER OPERATOR & LOCKING DEVICE, APOLLO SERIES 83A OR EQUAL	
PIPE FITTINGS					
NO	QTY	UNIT	SIZE	DESCRIPTION	TAG NUMBER/NOTES
201	2	EA	12"	FLANGE, WELDNECK, RF, CL 600, 12", A694 F52, ASME B16.5, BORE TO MATCH 0.375" WT	
202	2	EA	2"	FLANGE, BLIND, RF, CL 600, 2", A105 WCB, ASME B16.5, 1/2" CD&T	
203	2	EA	12"	ELBOW, 45°, LR, 12", 0.375" WT, BW, A860 WPHY 52, ASME B16.9	
204	2	EA	12"	TEE STRAIGHT, 12", 0.375" WT, BW, A860 WPHY 52, ASME B16.9	
205	2	EA	36"x16"	TEE, RED, 36", 0.875" WT x 16", 0.500" WT, BW, A860 WPHY 65, MSS SP-75	
206	2	EA	16"x12"	REDUCER, CONC, 16", 0.500" WT x 12", 0.375" WT, BW, A860 WPHY 52, MSS-SP-75	
207	2	EA	12"x2"	WELDOLET, 2", 0.218" WT x 12", 0.375" WT, A694 F52, ASME B16.25, MSS SP-97	
208	1	EA	12"x1"	SOCKOLET, 1" x 12", 3000LB, A694 F52, MSS-SP-97, ASME B16.11	
209	2	EA	2"	NIPPLE, 2", 0.218" WT, 4" LG, SMLS, A106 GR B, BBE	
210	1	EA	1"	NIPPLE, 1", 0.179" WT, 4" LG, SMLS, A106 GR B, PBE	
211	2	EA	1/2"	NIPPLE, 1/2", 0.147" WT, 4" LG, SMLS, A106 GR B, PBE	
212	2	EA	12"	CLOSURE, VERTICAL - 12.750" OD, 0.375" WT, CL 600, X52 PIPE, YALE FIG. 500 OR EQUIV.	
213	1	EA	1"	PLUG, HEX HEAD, 1", MNPT, 3000LB, A105 WCB, ASME B16.11, ASME B1.20.1	
214	2	EA	1/2"	PLUG, HEX HEAD, 1/2", MNPT, 3000LB, A105 WCB, ASME B16.11, ASME B1.20.1	
BOLTS, GASKETS, MISCELLANEOUS					
NO	QTY	UNIT	SIZE	DESCRIPTION	TAG NUMBER/NOTES
301	2	EA	12"	GASKET, 1/8" THICK, ASME B16.20, CL 600 PER API 601, SPIRAL WOUND W/304 SS WINDING AND CHLORITE/GRAPHITE FILLER, FLEXITALLIC STYLE CGI OR EQUAL, FOR 12" RF FLANGE SET	
302	2	EA	2"	GASKET, 1/8" THICK, ASME B16.20, CL 600 PER API 601, SPIRAL WOUND W/304 SS WINDING AND CHLORITE/GRAPHITE FILLER, FLEXITALLIC STYLE CGI OR EQUAL, FOR 2" RF FLANGE SET	
303	2	SETS	1 1/4"	STUD BOLT (20 BOLTS PER FLANGE), 1.250" x 9.000" LG, ASTM A193, GR B7, XYLAN COATED, WITH HEAVY HEX NUTS, ASTM A194, GR 2H, XYLAN COATED, FOR 12" CL 600 RF FLANGE SET	
304	2	SETS	5/8"	STUD BOLT (8 BOLTS PER FLANGE), 0.625" x 4.500" LG, ASTM A193, GR B7, XYLAN COATED, WITH HEAVY HEX NUTS, ASTM A194, GR 2H, XYLAN COATED, FOR 2" CL 600 RF FLANGE SET	
EQUIPMENT					
NO	QTY	UNIT	SIZE	DESCRIPTION	TAG NUMBER/NOTES
401	1	EA	36"	GAS-POWERED ACTUATOR, ROTARY VANE TYPE WITH MOUNTING HARDWARE, 1480 PSIG DESIGN, WITH 1/2" NPTF PORTS, SHAFER OR EQUAL	FURNISHED BY COMPANY

DESIGN CRITERIA	
DESIGN CODE	DOT49CFR PART 192 ASME B31.8
DESIGN FACTOR	0.5
DESIGN PRESSURE	1480 PSIG
DESIGN TEMPERATURE	-20° TO 100°F
CORROSION ALLOWANCE	0
DIMENSION UNITS	INCHES

NOTES		REFERENCE DRAWINGS		REVISIONS		PENNEAST MAINLINE VALVE SETTINGS MAINLINE VALVE DETAILS	
1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND GRADING ELEVATIONS PRIOR TO FABRICATION OF ANY PIPING.				A ISSUED FOR DRAFT RESOURCE REPORT 1		DRAWN BY	
2. TESTING:				B PRELIMINARY ISSUE		DATE ISSUED	
2.1. HYDROSTATIC TESTING: 2220 PSIG (-0/+25 PSIG), 8 HRS WITH CHART PER ASME B31.8		000-01-02-104 CONCRETE SUPPORT BLOCK DETAILS		11/4/14 QPS QPS QPS		CHECKED BY	
2.2. NON-DESTRUCTIVE TESTING: 100% RADIOGRAPHY BUTT WELDS PER API-1104; 100% DYE PENETRANT OR MAGNETIC PARTICLE FILLET WELDS		000-01-02-101 PIPE BRACE ASSEMBLY DETAILS		12/17/14 QPS QPS QPS		SCALE	
3. WELDING:		000-03-01-001-228 ALIGNMENT SHEETS (001-228)		4/13/15 QPS QPS QPS #		APPROVED BY	
3.1. WELDING PROCEDURES AND WELDERS QUALIFIED TO API-1104				9/23/15 HMM HMM HMM #		APPROVED BY	
3.1. WELDING PROCEDURES AND WELDERS QUALIFIED TO API-1104				10/23/15 HMM HMM HMM		DWG. NO.	
4. QUANTITIES SHOWN ARE FOR ONE TYPICAL ASSEMBLY. TOTAL OF 11 ASSEMBLIES.				3/18/16 HMM HMM HMM		029-03-00-001	
				5/16/16 HMM HMM HMM		SHEET	
				9/16/16 BM DOW MDN		1 OF 1	
						REV. NO.	
						H	

LUZERNE COUNTY, PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 15 MILES

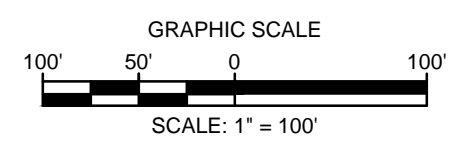
LEGENDS

PROPOSED

- PROPOSED PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- PROPOSED ABOVE GROUND FACILITY
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED SAFETY FENCE
- ACCESS ROAD

EXISTING

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- WETLAND (DELINEATED)
- WETLAND (AGRICULTURAL MODIFIED)
- EXISTING FENCE
- EXISTING HWY/ROAD
- LINE LIST NUMBER
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- WATERBODY (PUBLIC)
- RAILROAD CENTERLINE



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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
		A	ISSUED FOR DRAFT RESOURCE REPORT 1	11/4/2014	QPS	QPS	QPS	DRG (MM)	09/2016
		B	PRELIMINARY ISSUE	12/17/2014	QPS	QPS	QPS	CHECKED BY	DATE
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		F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM	P.M. APPROVAL	DATE
		G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM	MAW (MM)	09/2016
		H	ISSUED FOR FERC	09/16/2016	RJR (MM)	DRG (MM)	MDN (MM)		
000-03-009	ACCESS ROAD DETAIL								

PREPARED FOR

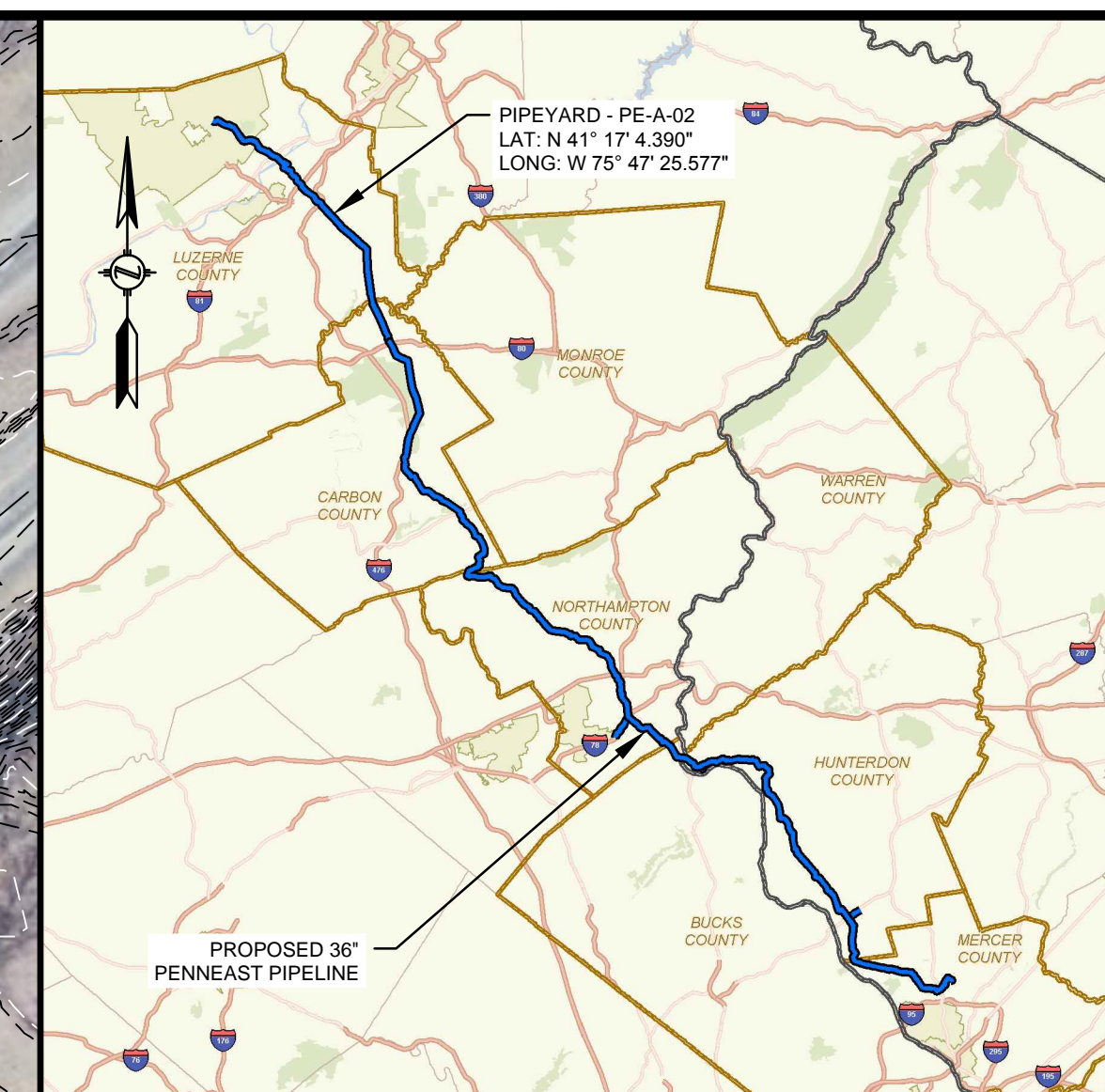
PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
PIPE YARD - PE-A-01
LUZERNE COUNTY, PENNSYLVANIA

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-001	H

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LUZERNE COUNTY, PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 15 MILES

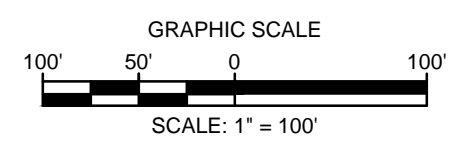
LEGENDS

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		F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM	P.M. APPROVAL	DATE
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000-03-03-011	ACCESS ROAD DETAIL								

PREPARED FOR

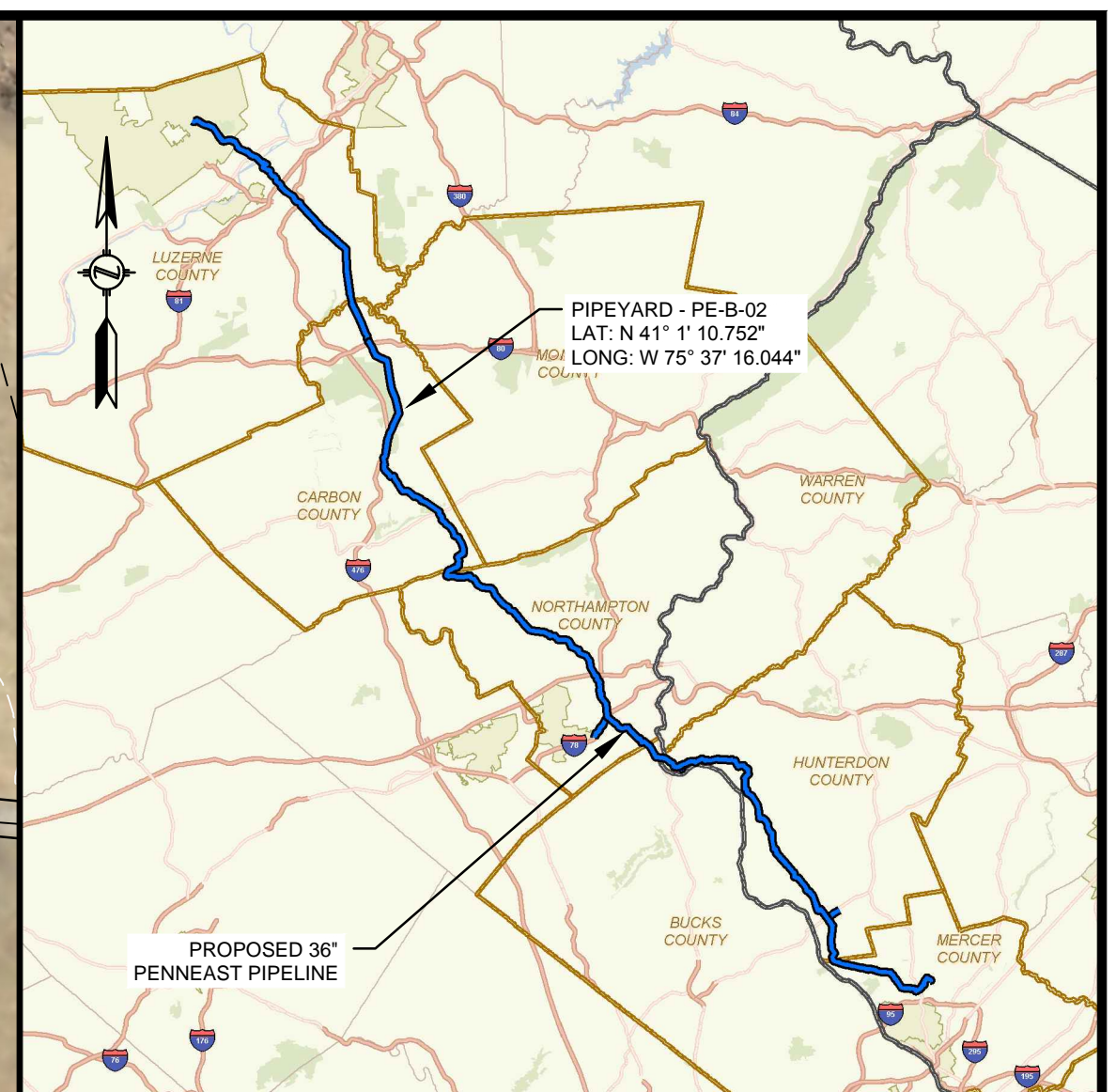
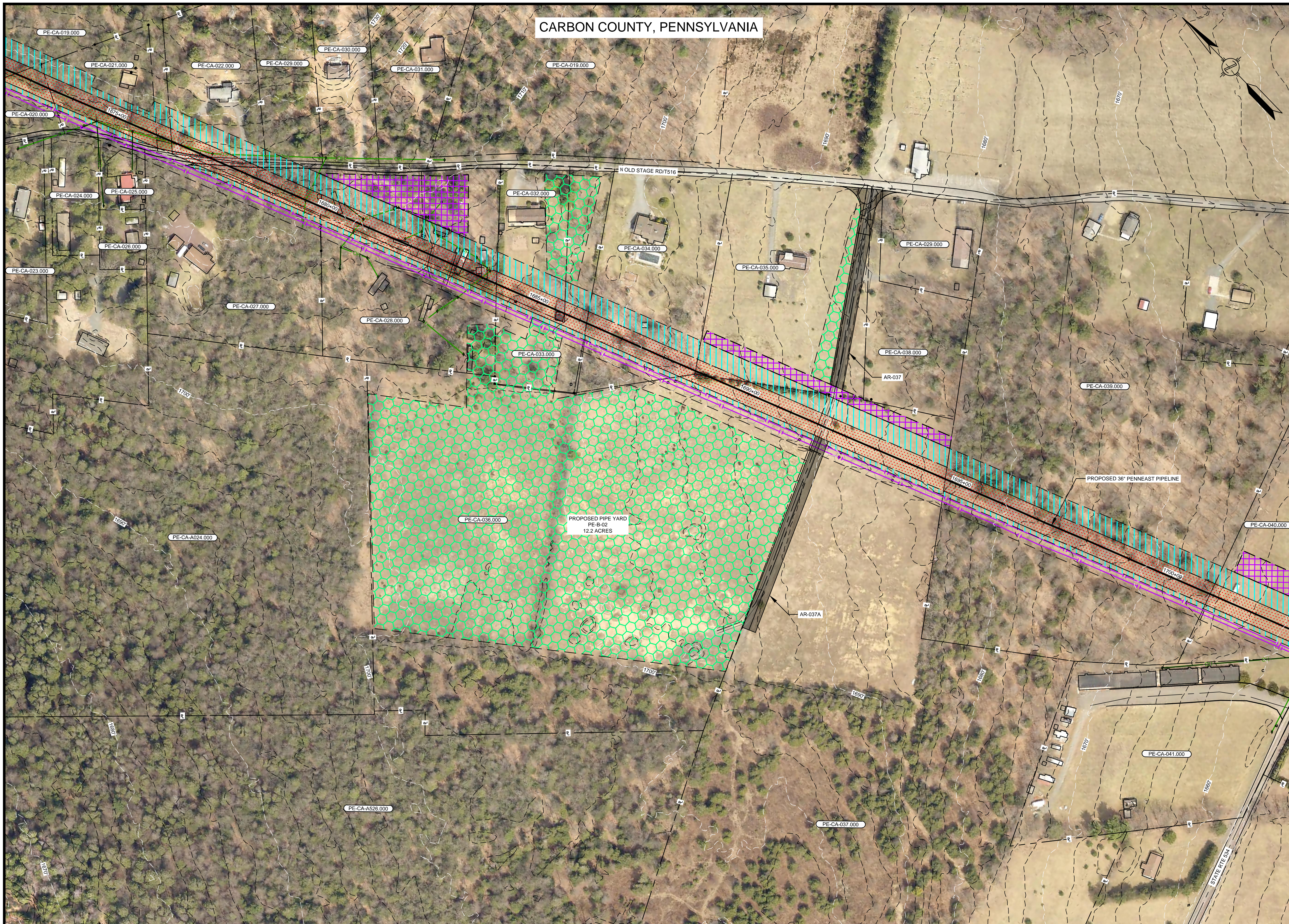
PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
PIPE YARD - PE-A-02
LUZERNE COUNTY, PENNSYLVANIA

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-001A	H

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CARBON COUNTY, PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 15 MILES

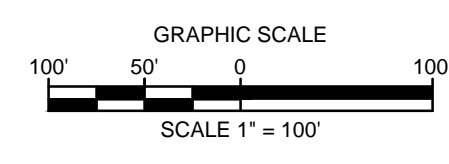
LEGENDS

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- PROPOSED PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
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- PROPOSED ABOVE GROUND FACILITY
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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
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		H	ISSUED FOR FERC	09/16/2016	RJR (MM)	DRG (MM)	MDN (MM)		

PREPARED FOR

CLIENT APPROVAL

DATE

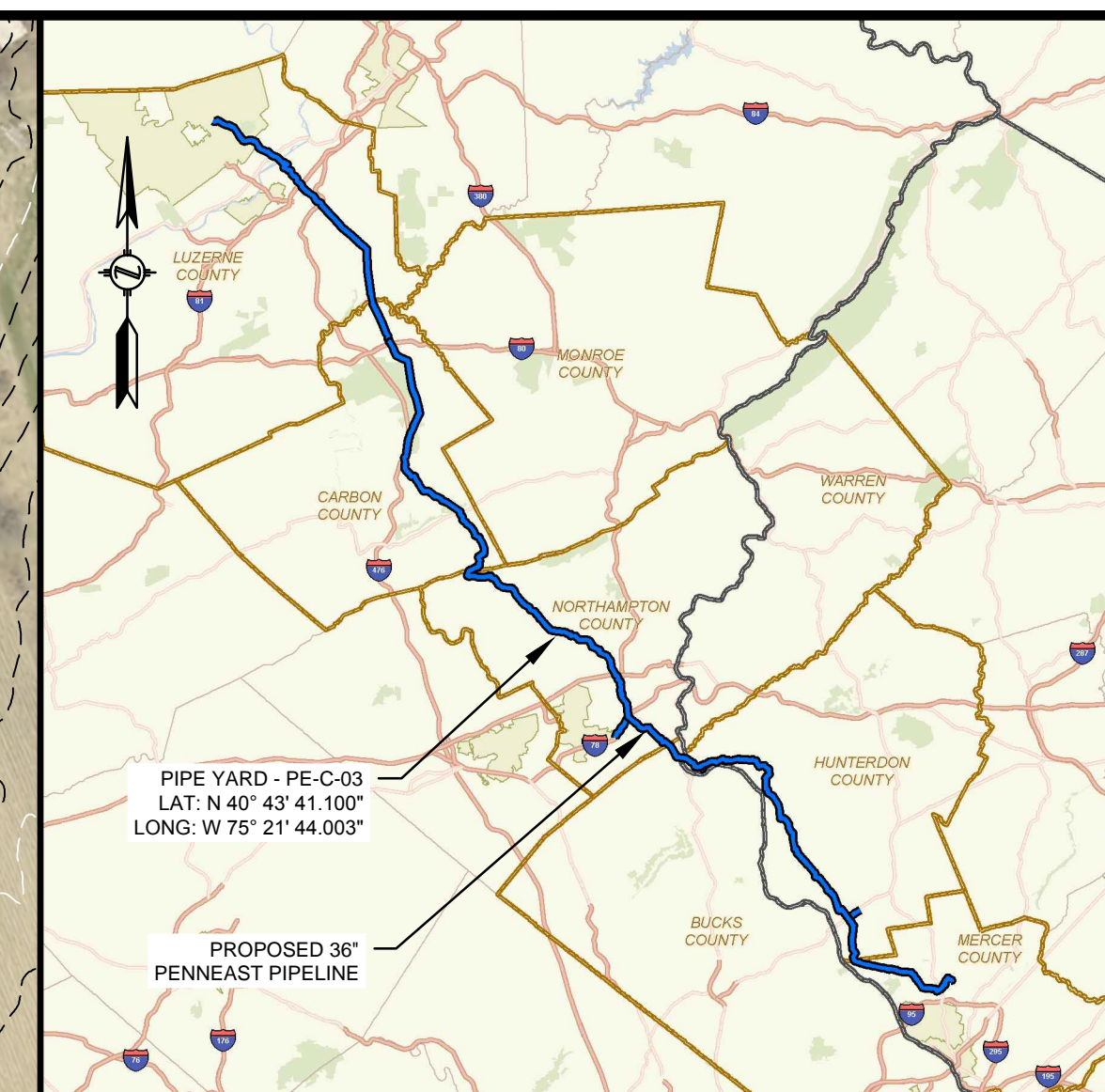
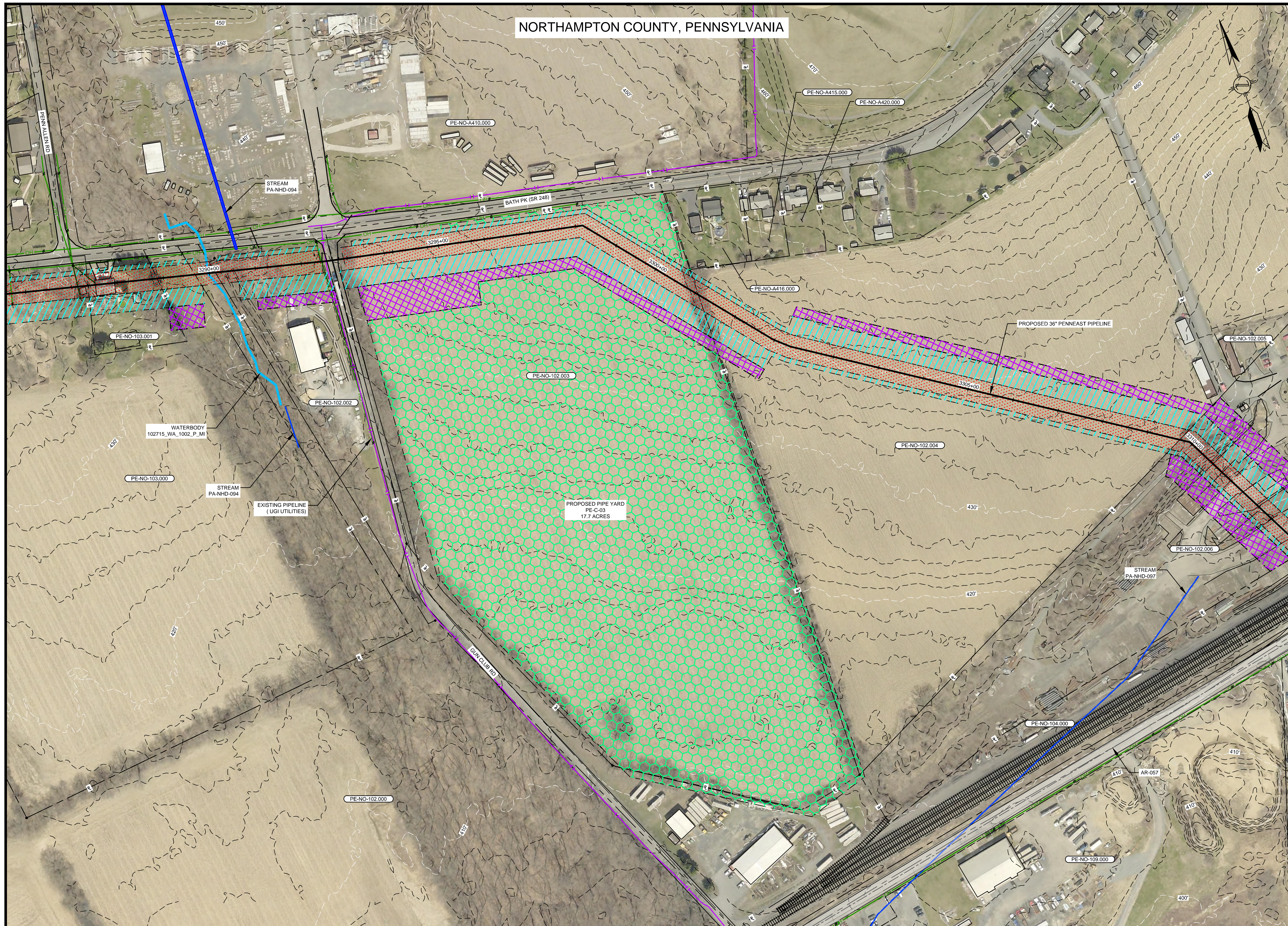
PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
PIPE YARD - PE-B-02
CARBON COUNTY, PENNSYLVANIA

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-002	H

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NORTHAMPTON COUNTY, PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 15 MILES

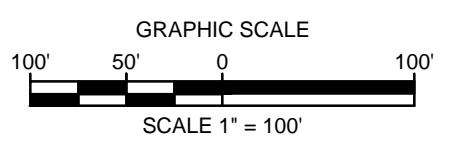
LEGENDS

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000-03-03-040	ACCESS ROAD DETAIL	C	FERC DRAFT FILING	4/13/2015	QPS	QPS	QPS	DRG (MM)	09/2016
		D	FERC FINAL FILING	9/23/2015	HMM	HMM	HMM	ENG. APPROVAL	DATE
		E	ISSUED FOR BID	10/23/2015	HMM	HMM	HMM	MDN (MM)	09/2016
		F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM	P.M. APPROVAL	DATE
		G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM	MAW (MM)	09/2016
		H	ISSUED FOR FERC	09/16/2016	RJR (MM)	DRG (MM)	MDN (MM)		

PREPARED FOR

CLIENT APPROVAL

DATE

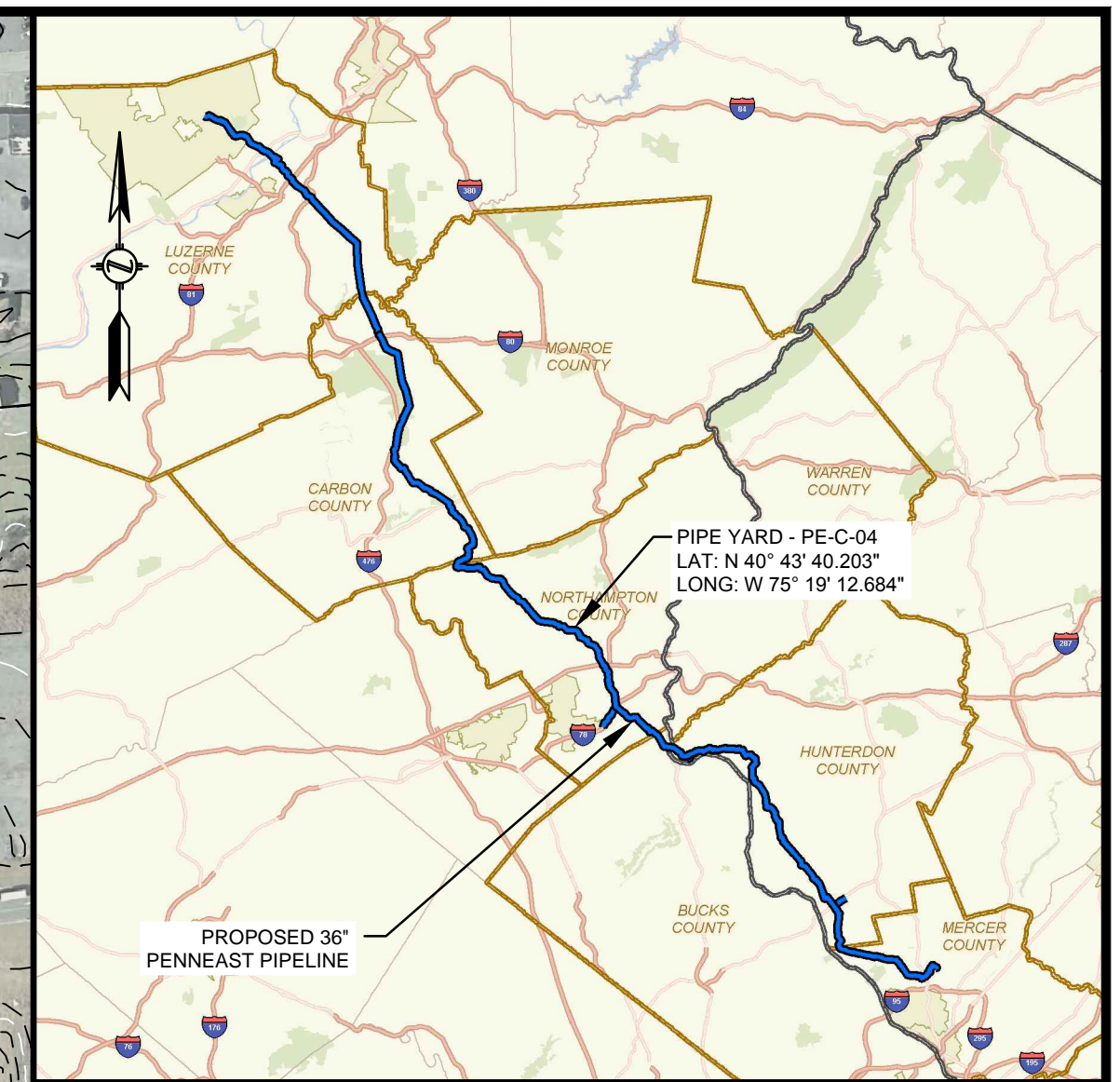
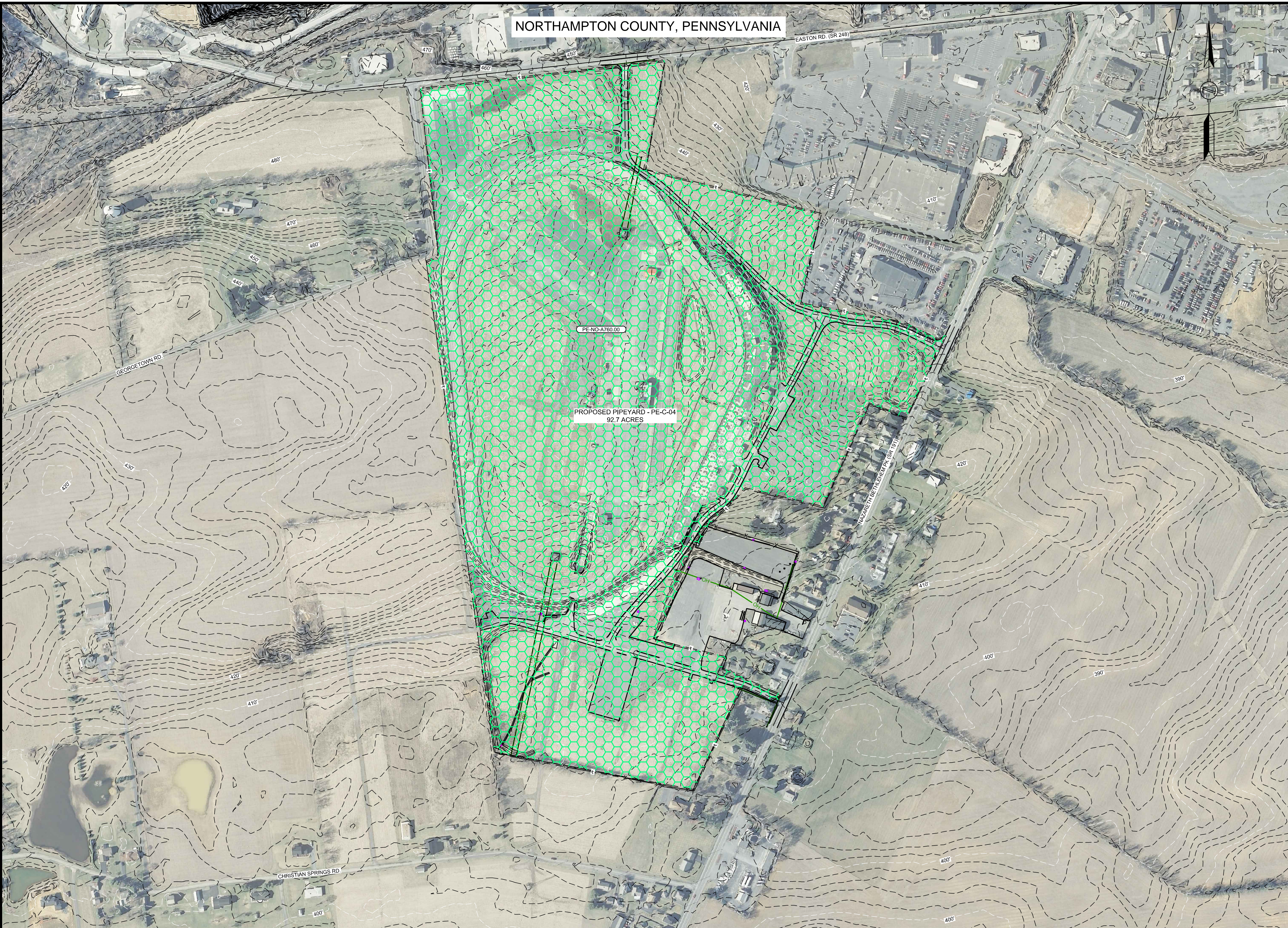
PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
 PIPE YARD - PE-C-03
 NORTHAMPTON COUNTY, PENNSYLVANIA

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-003	H

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NORTHAMPTON COUNTY, PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 15 MILES

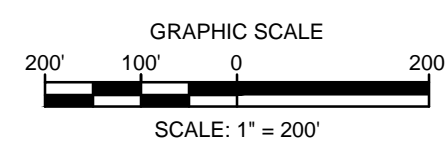
LEGENDS

PROPOSED

- PROPOSED PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- PROPOSED ABOVE GROUND FACILITY
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED SAFETY FENCE
- ACCESS ROAD

EXISTING

- PROPERTY LINE
- STREAM (PUBLIC)
- STREAM (DELINEATED)
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING FOREIGN EASEMENT
- WETLAND (PUBLIC)
- WETLAND (DELINEATED)
- WETLAND (AGRICULTURAL MODIFIED)
- EXISTING FENCE
- EXISTING HWY/ROAD
- LINE LIST NUMBER
- WATERBODY (DELINEATED)
- WATERBODY (PUBLIC)
- RAILROAD CENTERLINE



- NOTES:
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REFERENCE DRAWINGS		REVISIONS					APPROVALS		
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
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		B	PRELIMINARY ISSUE	12/17/2014	QPS	QPS	QPS	CHECKED BY	DATE
		C	FERC DRAFT FILING	4/13/2015	QPS	QPS	QPS	DRG (MM)	09/2016
		D	FERC FINAL FILING	9/23/2015	HMM	HMM	HMM	ENG. APPROVAL	DATE
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		H	ISSUED FOR FERC	09/16/2016	RJR (MM)	DRG (MM)	MDN (MM)		

PREPARED FOR

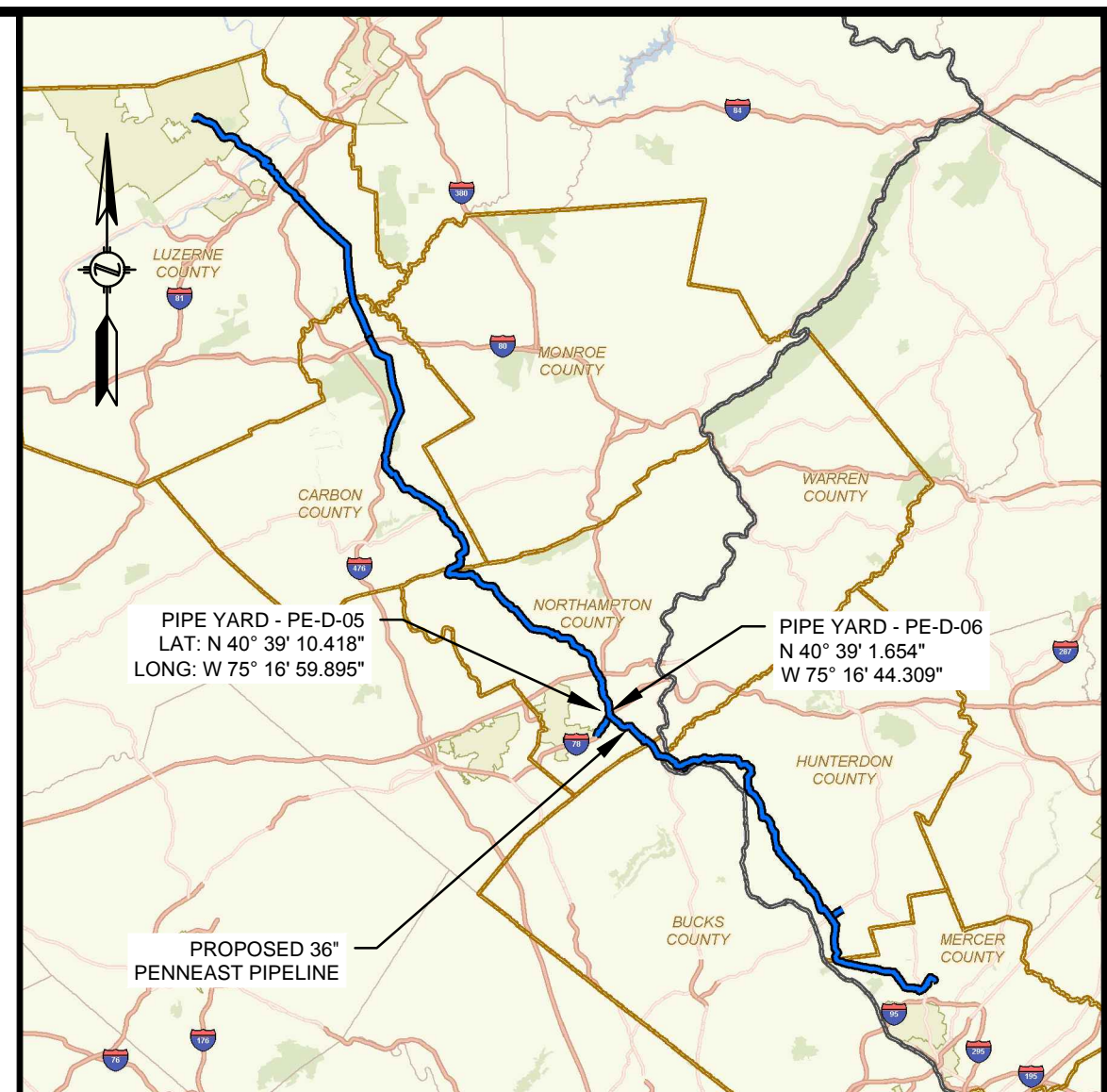
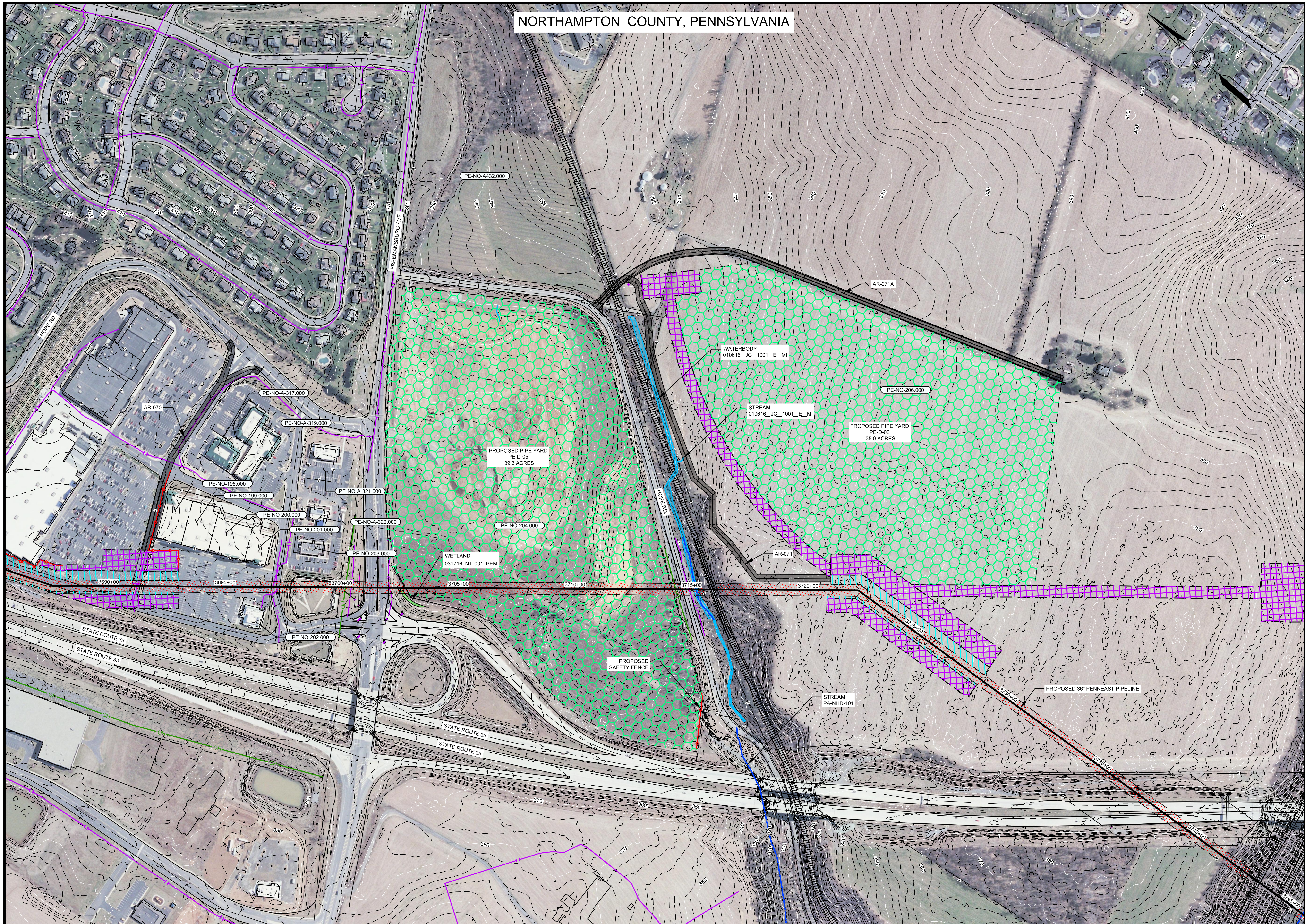


PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
PIPE YARD - PE-C-04
NORTHAMPTON COUNTY, PENNSYLVANIA

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-004	H

NORTHAMPTON COUNTY, PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 15 MILES

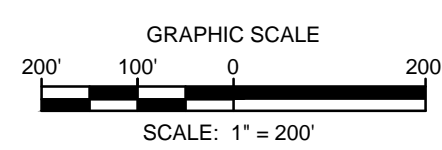
LEGENDS

PROPOSED

- PROPOSED PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- PROPOSED ABOVE GROUND FACILITY
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED SAFETY FENCE
- ACCESS ROAD

EXISTING

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- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING FOREIGN EASEMENT
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- WETLAND (DELINEATED)
- WETLAND (AGRICULTURAL MODIFIED)
- EXISTING FENCE
- EXISTING HWY ROAD
- LINE LIST NUMBER
- WATERBODY (DELINEATED)
- WATERBODY (PUBLIC)
- RAILROAD CENTERLINE



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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
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		D	FERC FINAL FILING	9/23/2015	HMM	HMM	HMM	ENG. APPROVAL	DATE
000-03-03-048	ACCESS ROAD DETAIL	E	ISSUED FOR BID	10/23/2015	HMM	HMM	HMM	MDN (MM)	09/2016
000-03-03-049	ACCESS ROAD DETAIL	F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM	P.M. APPROVAL	DATE
000-03-01-141	ALIGNMENT SHEET	G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM	MAW (MM)	09/2016
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PREPARED FOR

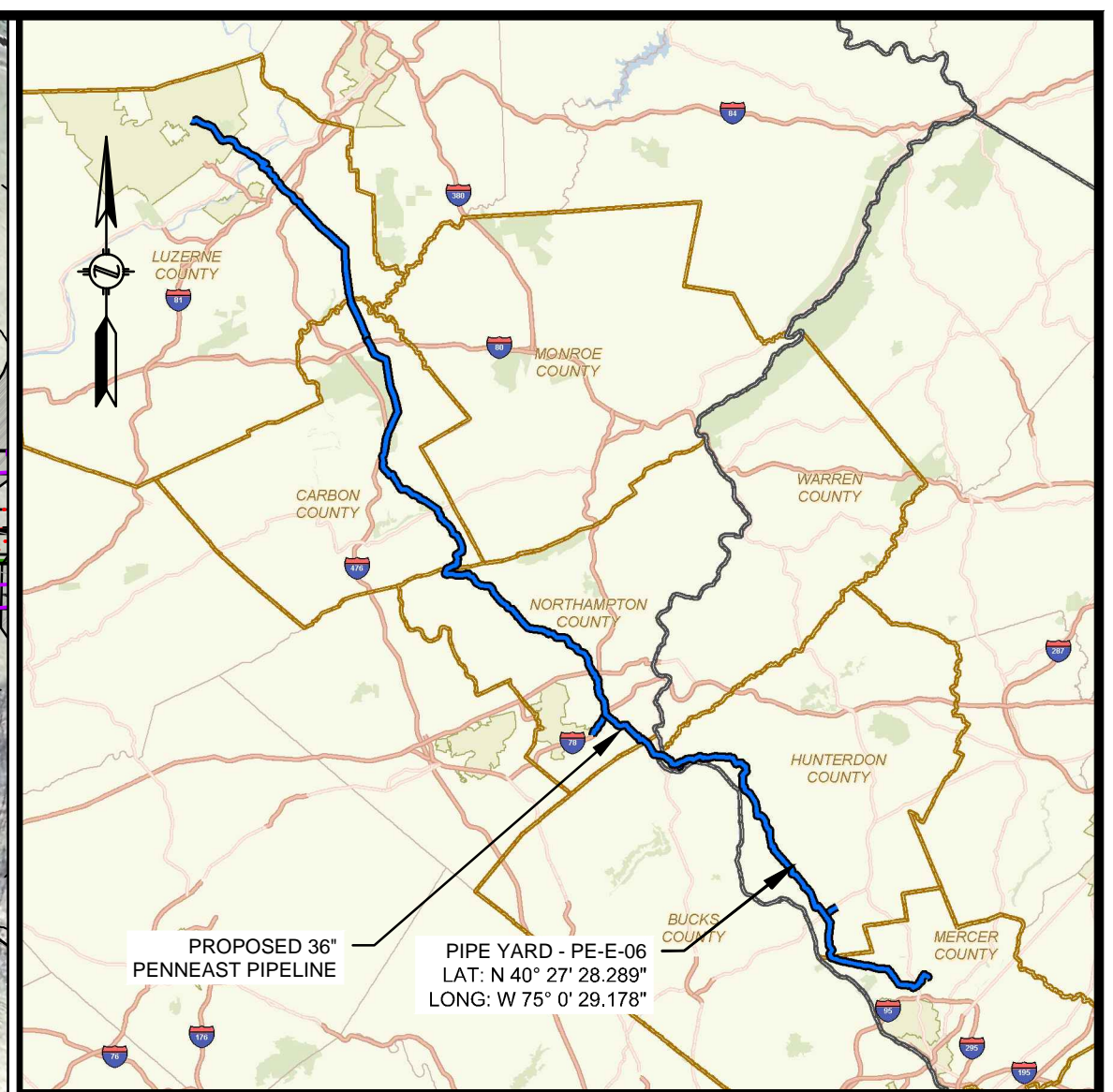
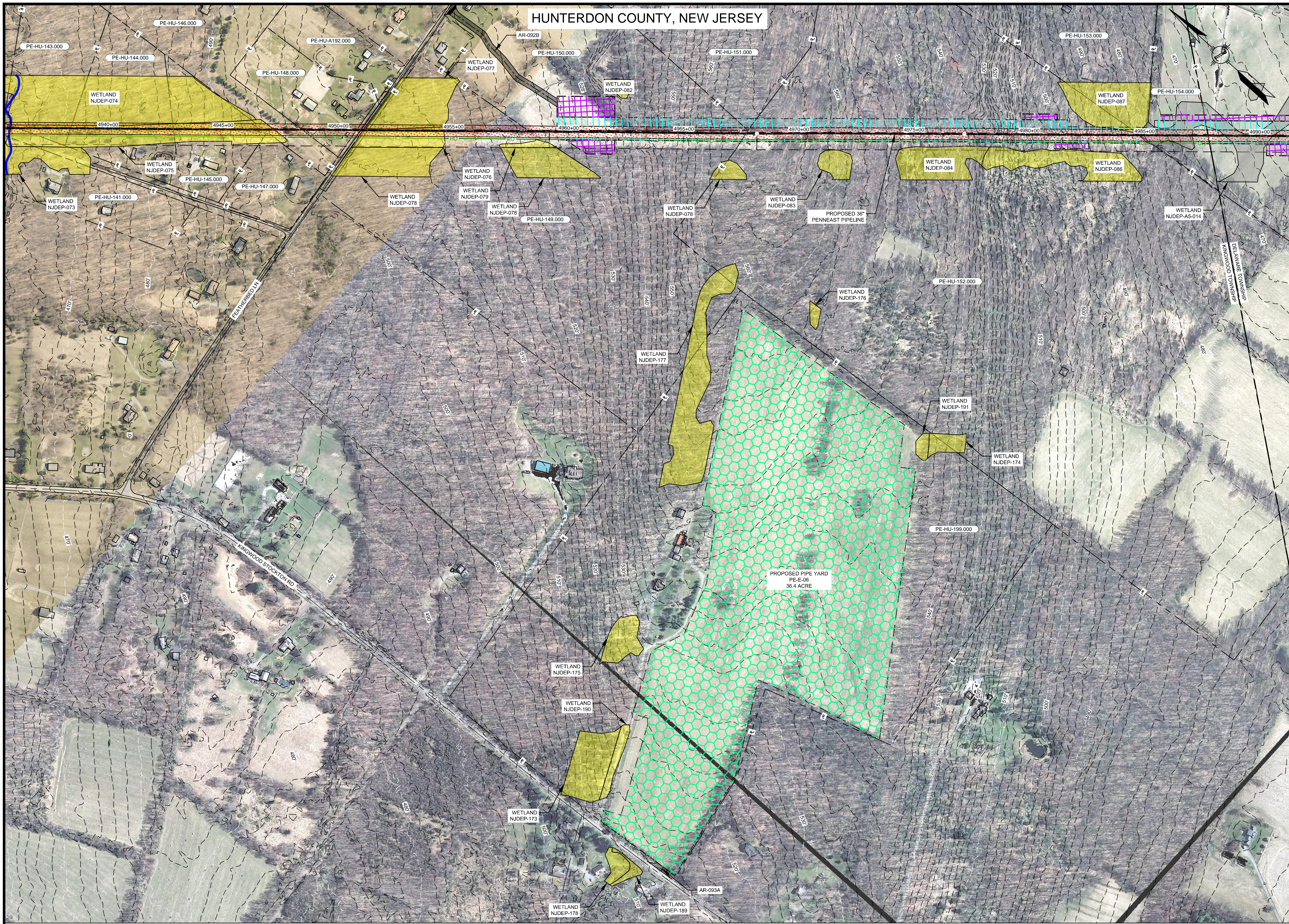
PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
PIPE YARD - PE-D-05 PE-D-06
NORTHAMPTON COUNTY, PENNSYLVANIA

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-005	H

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HUNTERDON COUNTY, NEW JERSEY



LOCATION MAP
SCALE: 1" = 15 MILES

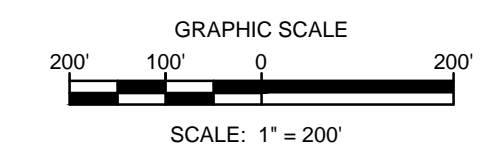
LEGENDS

PROPOSED

- PROPOSED PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- PROPOSED ABOVE GROUND FACILITY
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED SAFETY FENCE
- ACCESS ROAD

EXISTING

- PROPERTY LINE
- STREAM (PUBLIC)
- STREAM (DELINEATED)
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING FOREIGN EASEMENT
- WETLAND (PUBLIC)
- WETLAND (DELINEATED)
- WETLAND (AGRICULTURAL MODIFIED)
- EXISTING FENCE
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- LINE LIST NUMBER
- WATERBODY (DELINEATED)
- WATERBODY (PUBLIC)
- RAILROAD CENTERLINE



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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
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		H	ISSUED FOR FERC	09/16/2016	RJR (MM)	DRG (MM)	MDN (MM)		

PREPARED FOR

CLIENT APPROVAL

DATE

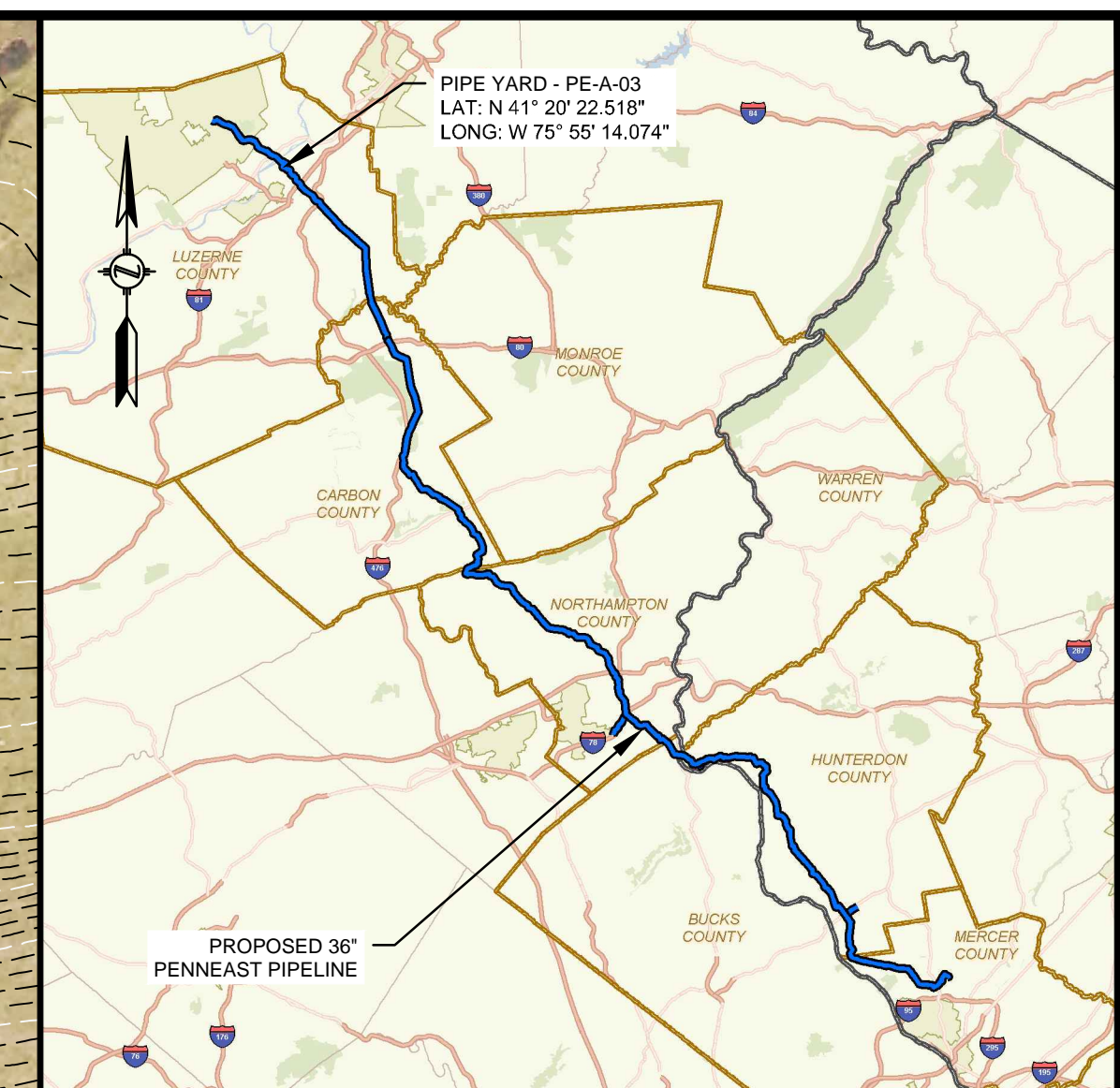
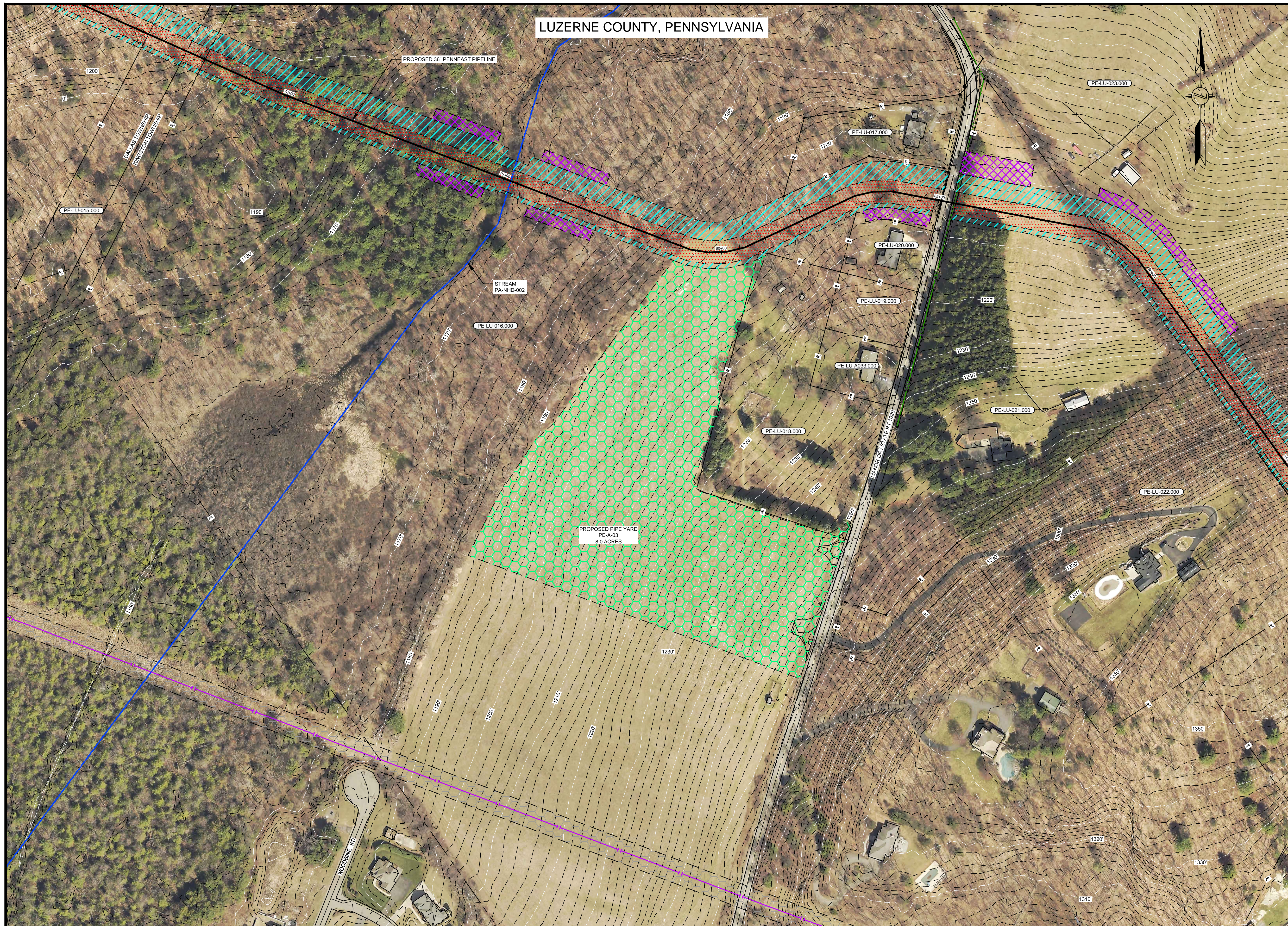
PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
PIPE YARD - PE-E-06
HUNTERDON COUNTY, NEW JERSEY

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-006	H

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LUZERNE COUNTY, PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 15 MILES

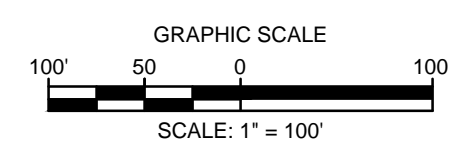
LEGENDS

PROPOSED

- PROPOSED PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- PROPOSED ABOVE GROUND FACILITY
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED SAFETY FENCE
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000-03-01-004	ALIGNMENT SHEET	G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM	MAW (MM)	09/2016
000-03-01-003	ALIGNMENT SHEET	H	ISSUED FOR FERC	09/16/2016	RJR (MM)	DRG (MM)	MDN (MM)		

PREPARED FOR



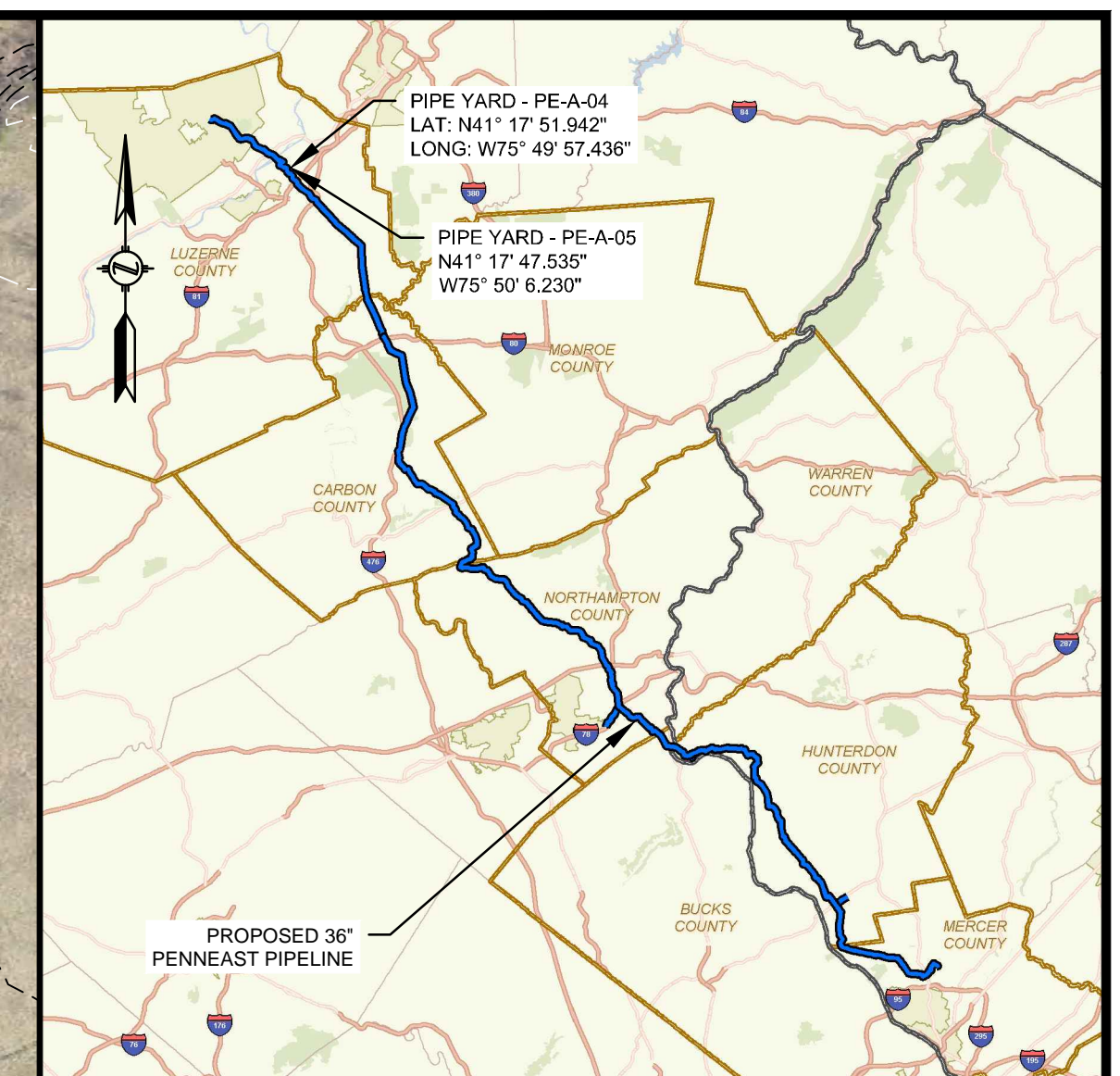
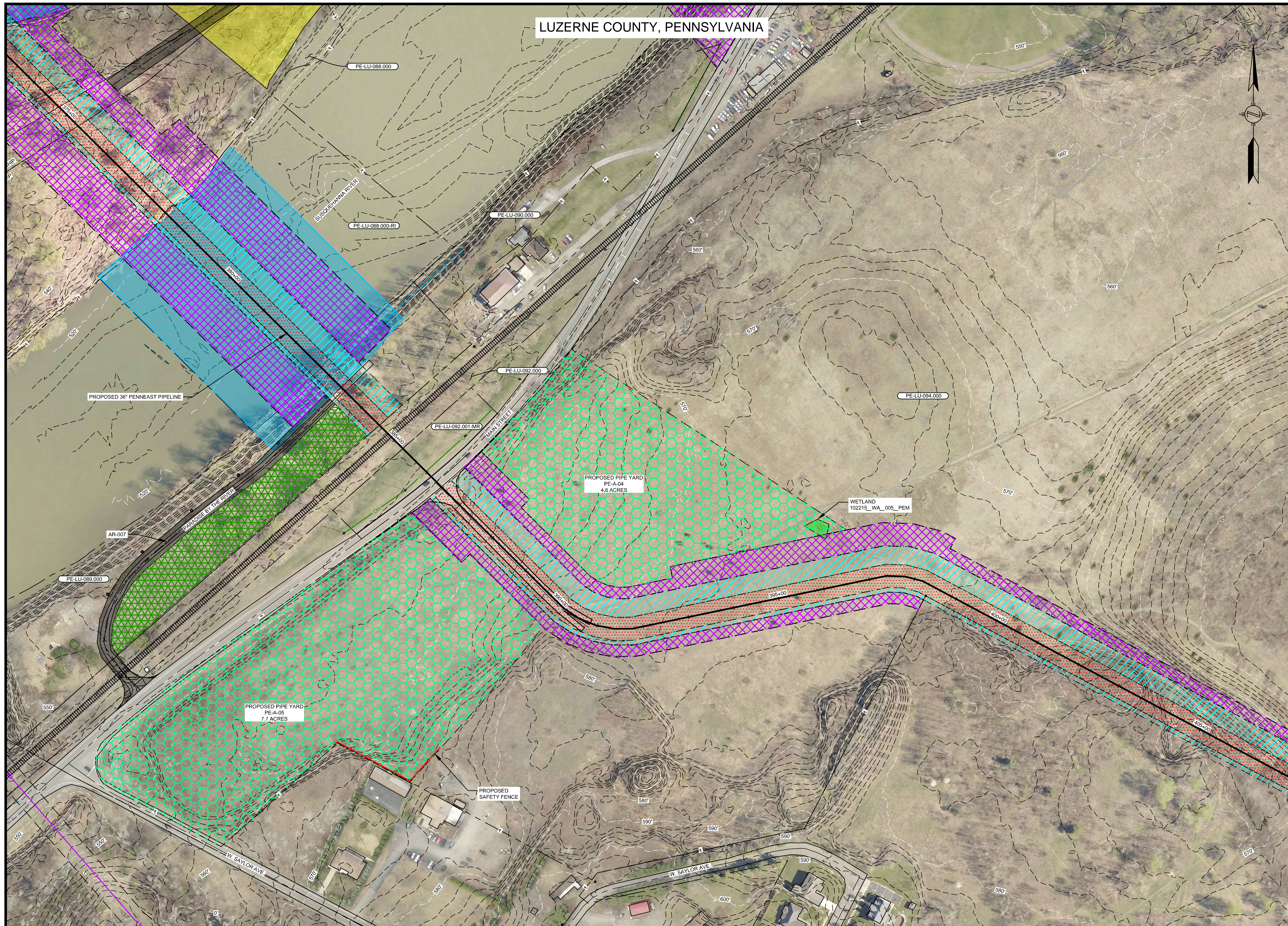
PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
PIPE YARD - PE-A-03
LUZERNE COUNTY, PENNSYLVANIA

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-007	H

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LUZERNE COUNTY, PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 15 MILES

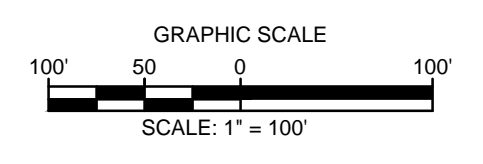
LEGENDS

PROPOSED

- PROPOSED PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- PROPOSED ABOVE GROUND FACILITY
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PREPARED FOR

CLIENT APPROVAL

DATE

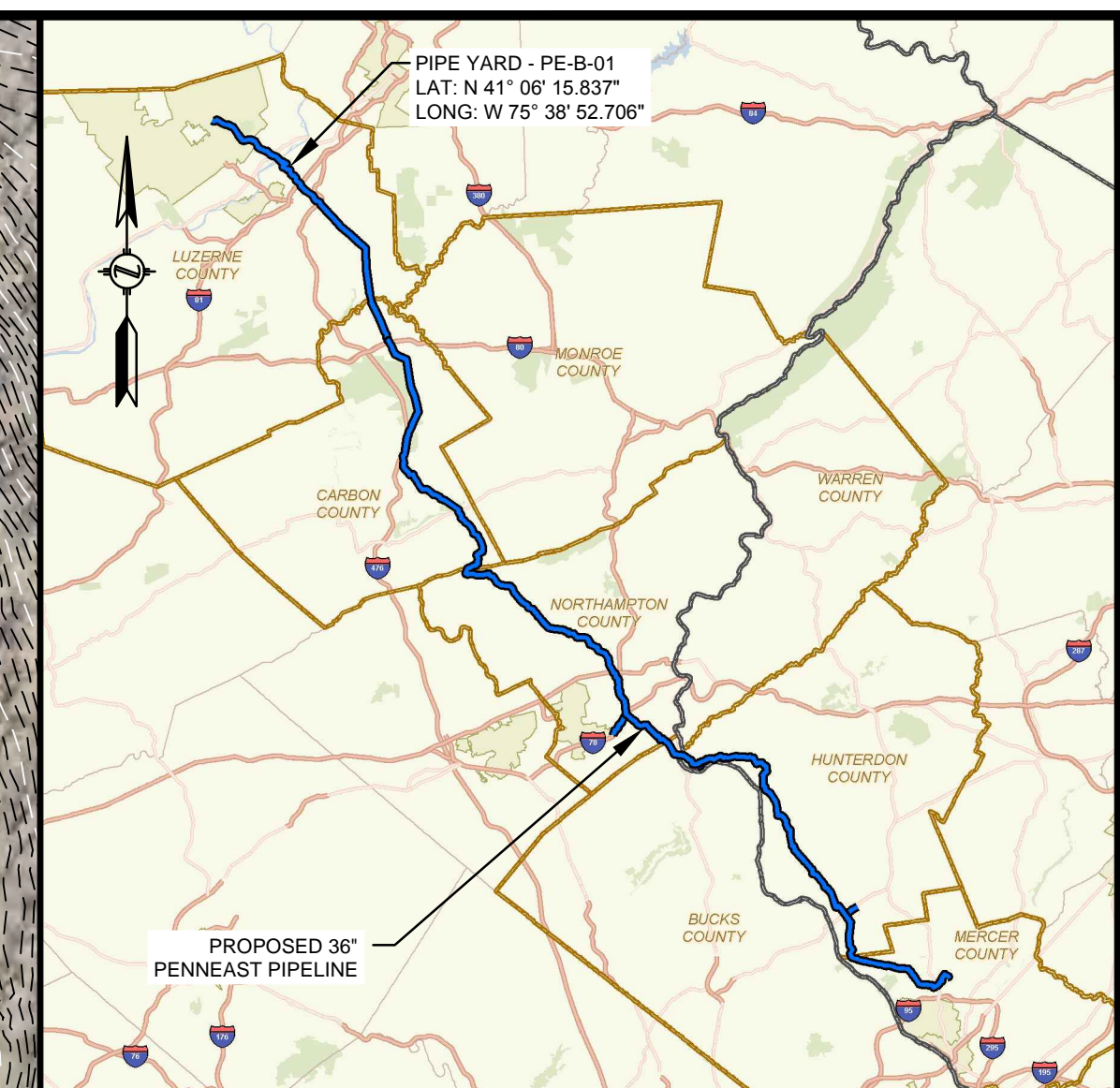
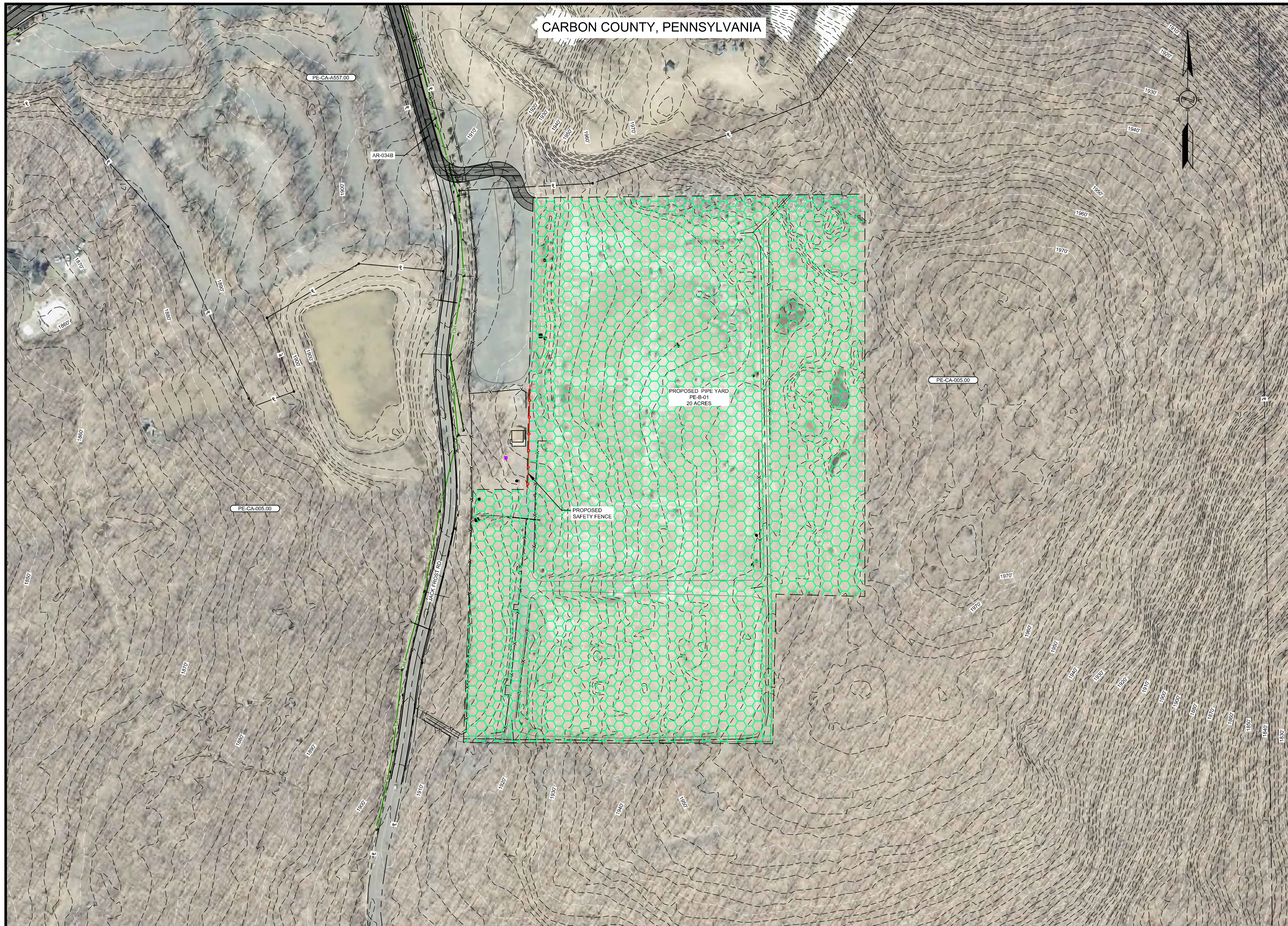
PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
PIPE YARD - PE-A-04 PE-A-05
LUZERNE COUNTY, PENNSYLVANIA

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-008	H

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CARBON COUNTY, PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 15 MILES

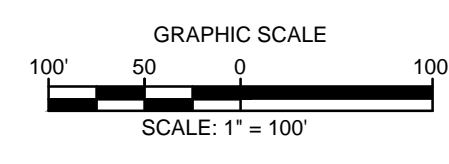
LEGENDS

PROPOSED

- PROPOSED PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- PROPOSED ABOVE GROUND FACILITY
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- EXISTING MINOR CONTOURS
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		C	FERC DRAFT FILING	4/13/2015	QPS	QPS	QPS	DRG (MM)	09/2016
		D	FERC FINAL FILING	9/23/2015	HMM	HMM	HMM	ENG. APPROVAL	DATE
		E	ISSUED FOR BID	10/23/2015	HMM	HMM	HMM	MDN (MM)	09/2016
		F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM	P.M. APPROVAL	DATE
		G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM	MAW (MM)	09/2016
		H	ISSUED FOR FERC	09/16/2016	RJR (MM)	DRG (MM)	MDN (MM)		

PREPARED FOR

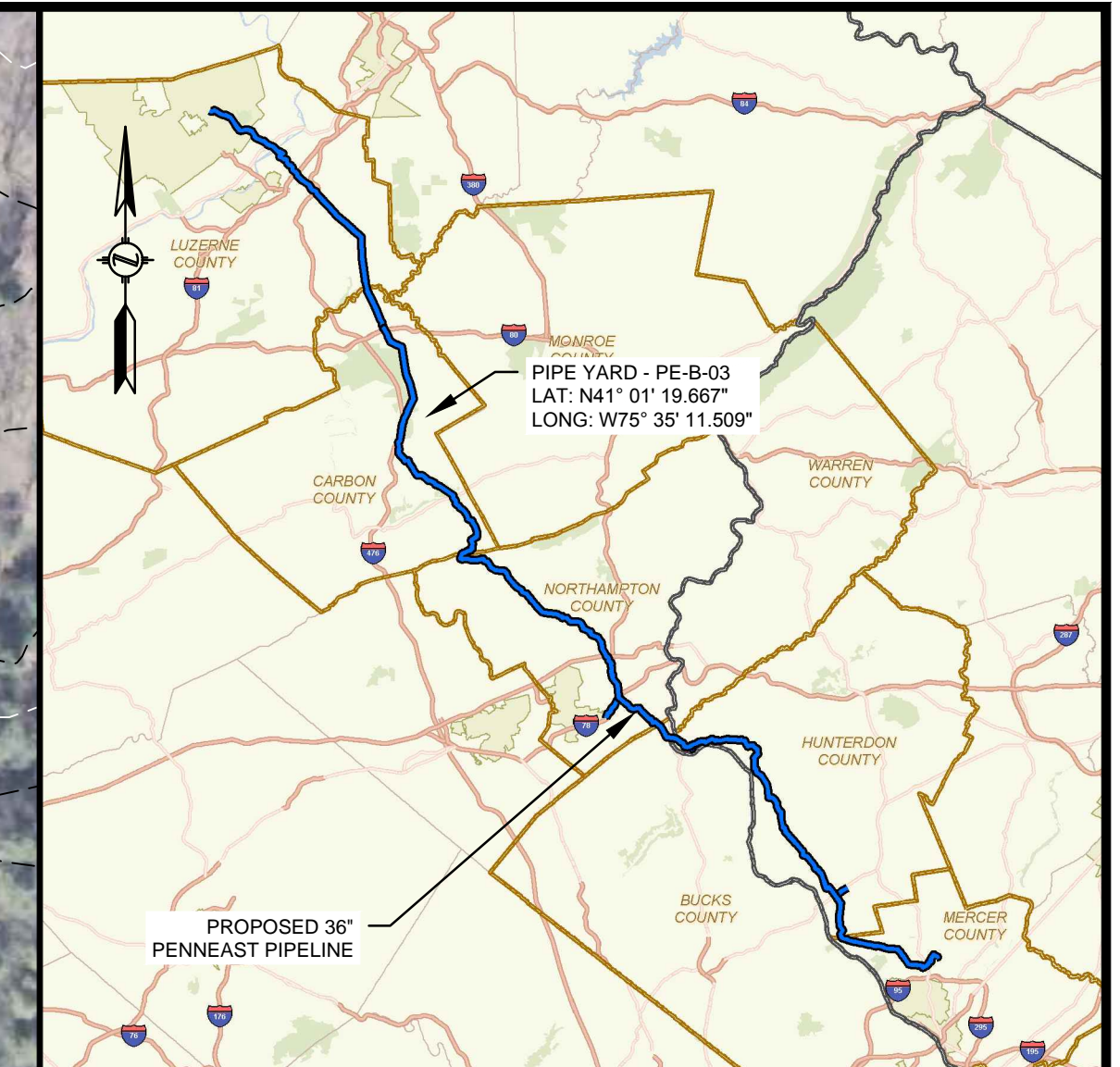
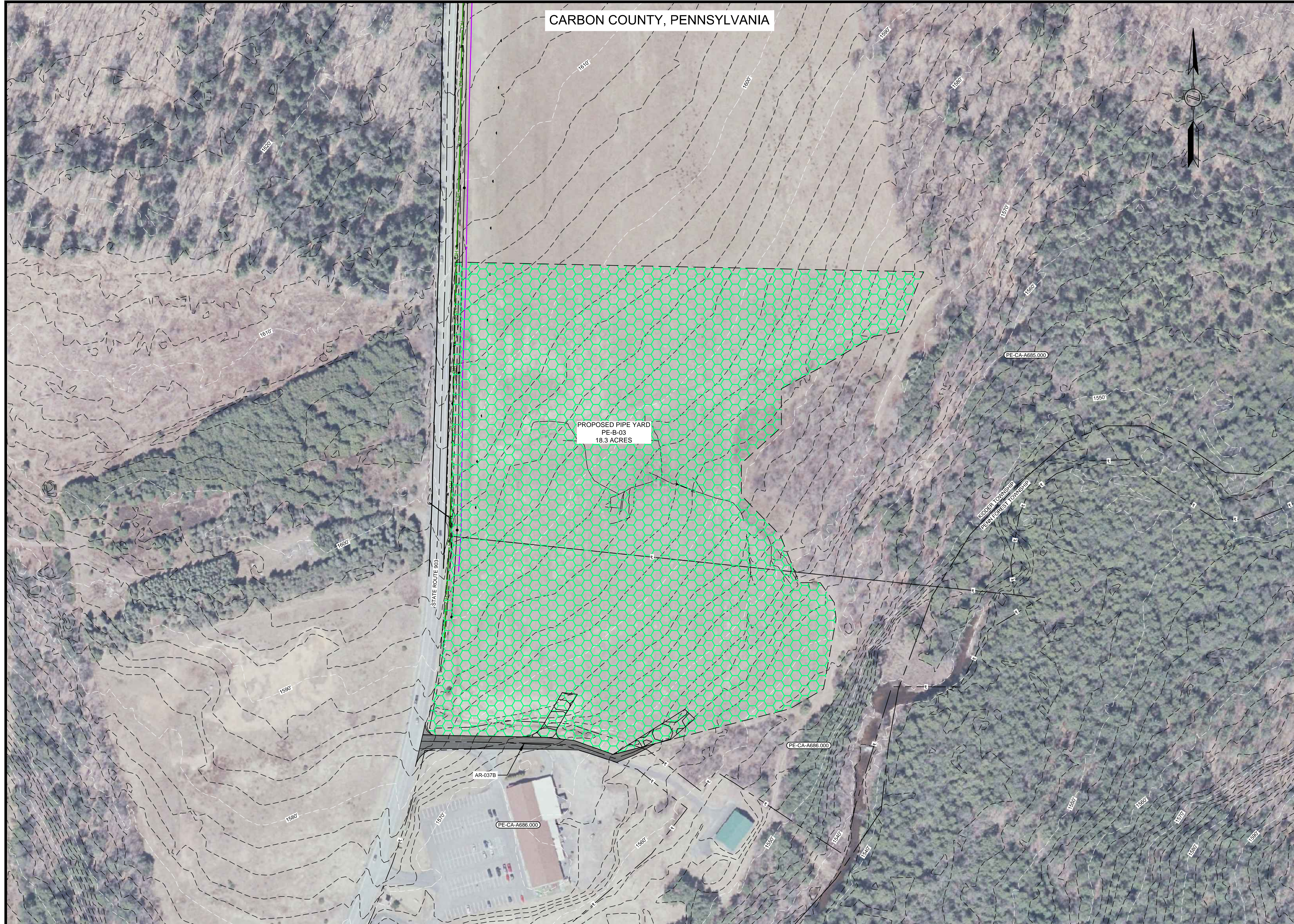
PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
PIPE YARD - PE-B-01
CARBON COUNTY, PENNSYLVANIA

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-009	H

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CARBON COUNTY, PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 15 MILES

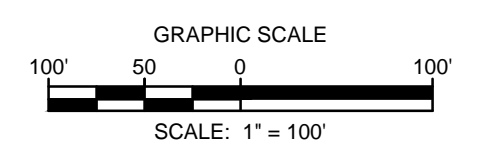
LEGENDS

PROPOSED

- PROPOSED PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- PROPOSED ABOVE GROUND FACILITY
- ROCK CONSTRUCTION ENTRANCE
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- PROPOSED STAGING AREA
- PROPOSED SAFETY FENCE
- ACCESS ROAD

EXISTING

- PROPERTY LINE
- STREAM (PUBLIC)
- STREAM (DELINEATED)
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING FOREIGN EASEMENT
- WETLAND (PUBLIC)
- WETLAND (DELINEATED)
- WETLAND (AGRICULTURAL MODIFIED)
- EXISTING FENCE
- EXISTING HWY ROAD
- LINE LIST NUMBER
- WATERBODY (DELINEATED)
- WATERBODY (PUBLIC)
- RAILROAD CENTERLINE



- NOTES:
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REFERENCE DRAWINGS		REVISIONS						APPROVALS	
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
		A	ISSUED FOR DRAFT RESOURCE REPORT 1	11/4/2014	QPS	QPS	QPS	DRG (MM)	09/2016
		B	PRELIMINARY ISSUE	12/17/2014	QPS	QPS	QPS	CHECKED BY	DATE
		C	FERC DRAFT FILING	4/13/2015	QPS	QPS	QPS	DRG (MM)	09/2016
		D	FERC FINAL FILING	9/23/2015	HMM	HMM	HMM	ENG. APPROVAL	DATE
		E	ISSUED FOR BID	10/23/2015	HMM	HMM	HMM	MDN (MM)	09/2016
		F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM	P.M. APPROVAL	DATE
		G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM	MAW (MM)	09/2016
		H	ISSUED FOR FERC	09/16/2016	RJR (MM)	DRG (MM)	MDN (MM)		

PREPARED FOR

CLIENT APPROVAL

DATE

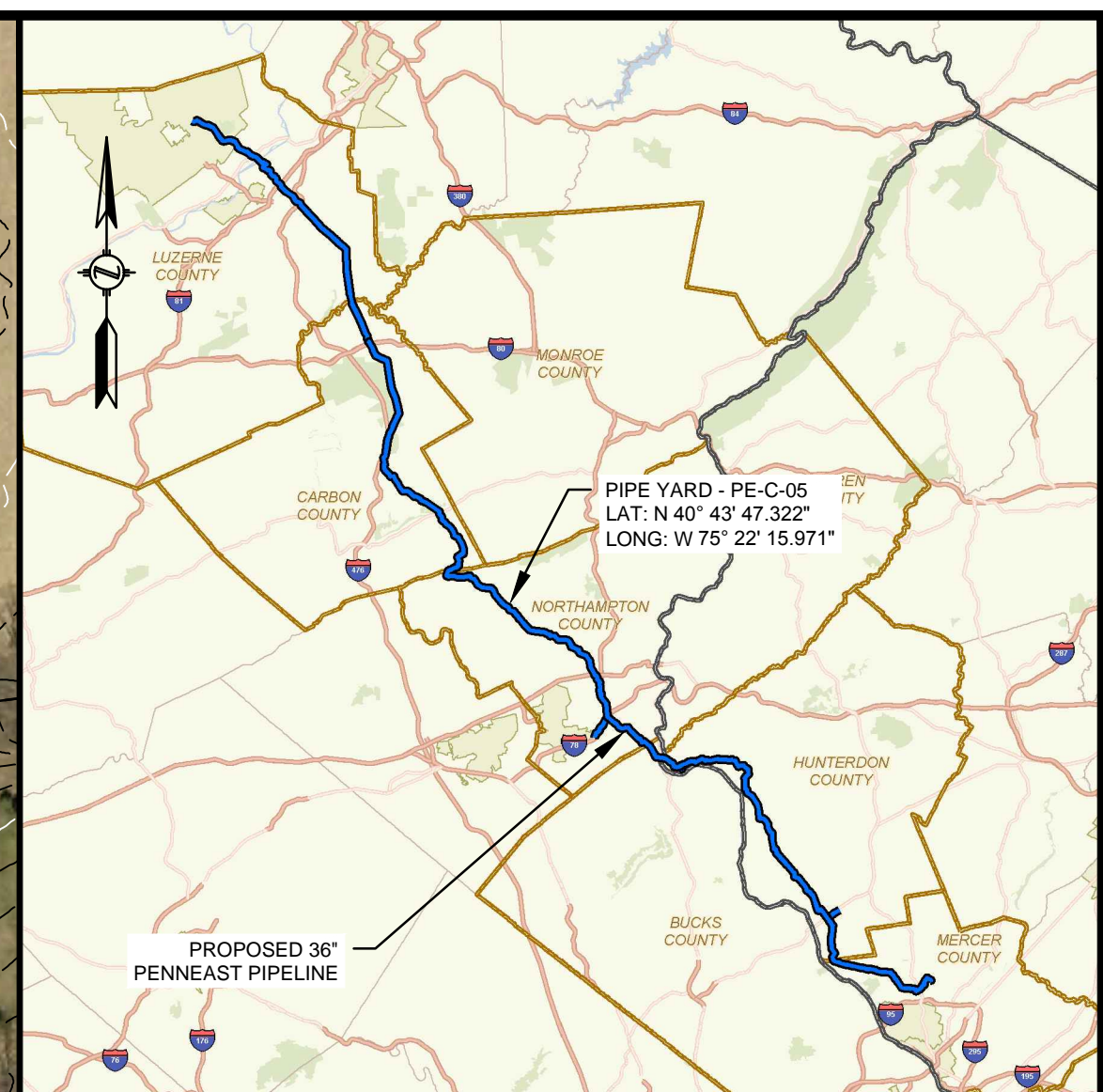
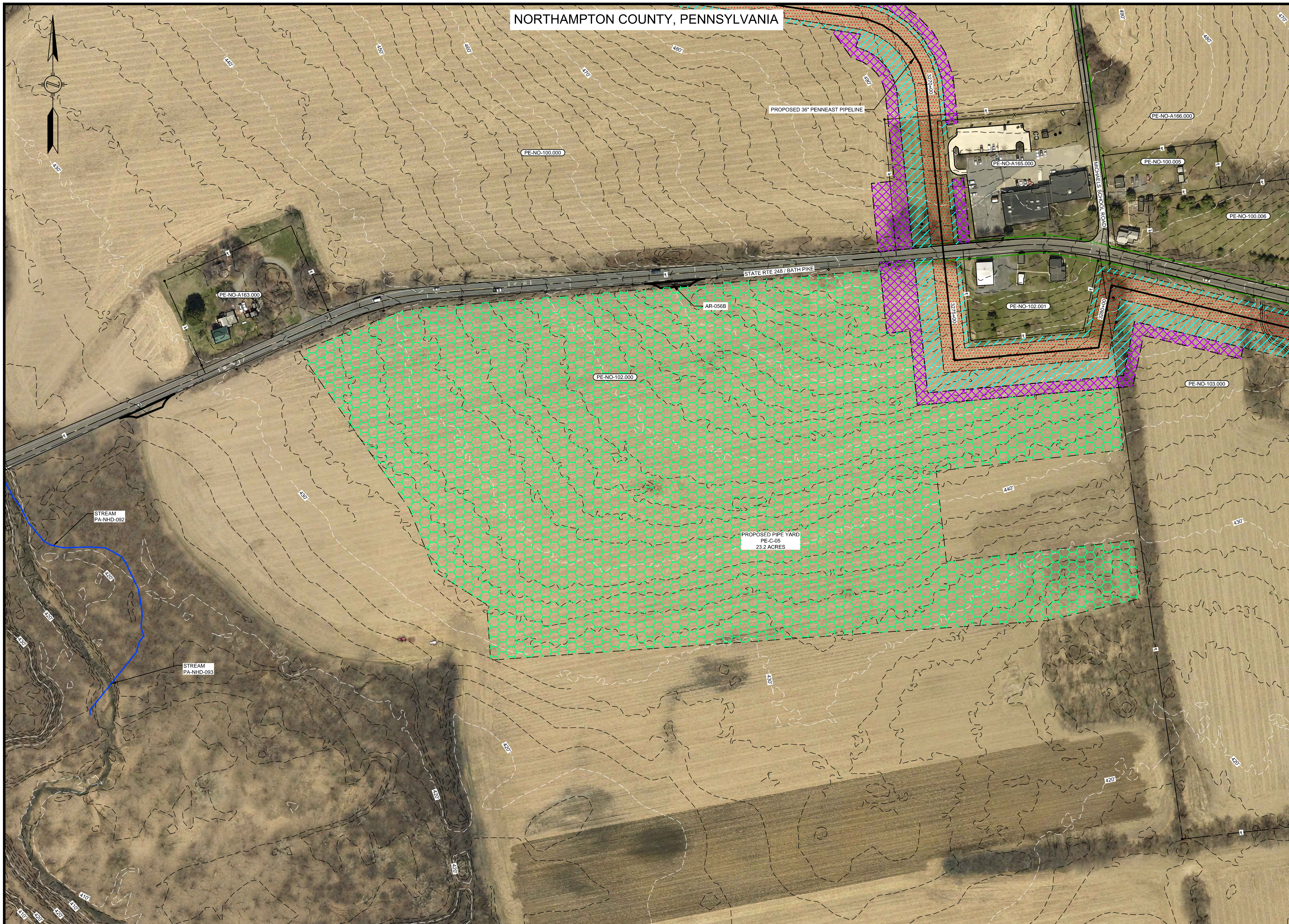
PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
PIPE YARD - PE-B-03
CARBON COUNTY, PENNSYLVANIA

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-010	H

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NORTHAMPTON COUNTY, PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 15 MILES

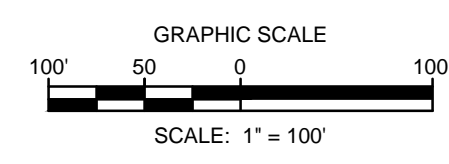
LEGENDS

PROPOSED

- PROPOSED PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- PROPOSED ABOVE GROUND FACILITY
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED PIPEYARD
- PROPOSED STAGING AREA
- PROPOSED SAFETY FENCE
- ACCESS ROAD

EXISTING

- PROPERTY LINE
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000-03-03-039.1	ACCESS ROAD DETAIL	F	SUPPLEMENTAL FERC FILING	03/18/2016	HMM	HMM	HMM	P.M. APPROVAL	DATE
000-03-01-124	ALIGNMENT SHEET	G	FERC DATA REQUEST	05/16/2016	HMM	HMM	HMM	MAW (MM)	09/2016
000-03-01-125	ALIGNMENT SHEET	H	ISSUED FOR FERC	09/16/2016	RJR (MM)	DRG (MM)	MDN (MM)		

PREPARED FOR

PENNEAST PIPELINE PROJECT

PIPE YARD DETAILS
PIPE YARD - PE-C-05
NORTHAMPTON COUNTY, PENNSYLVANIA

SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-011	H

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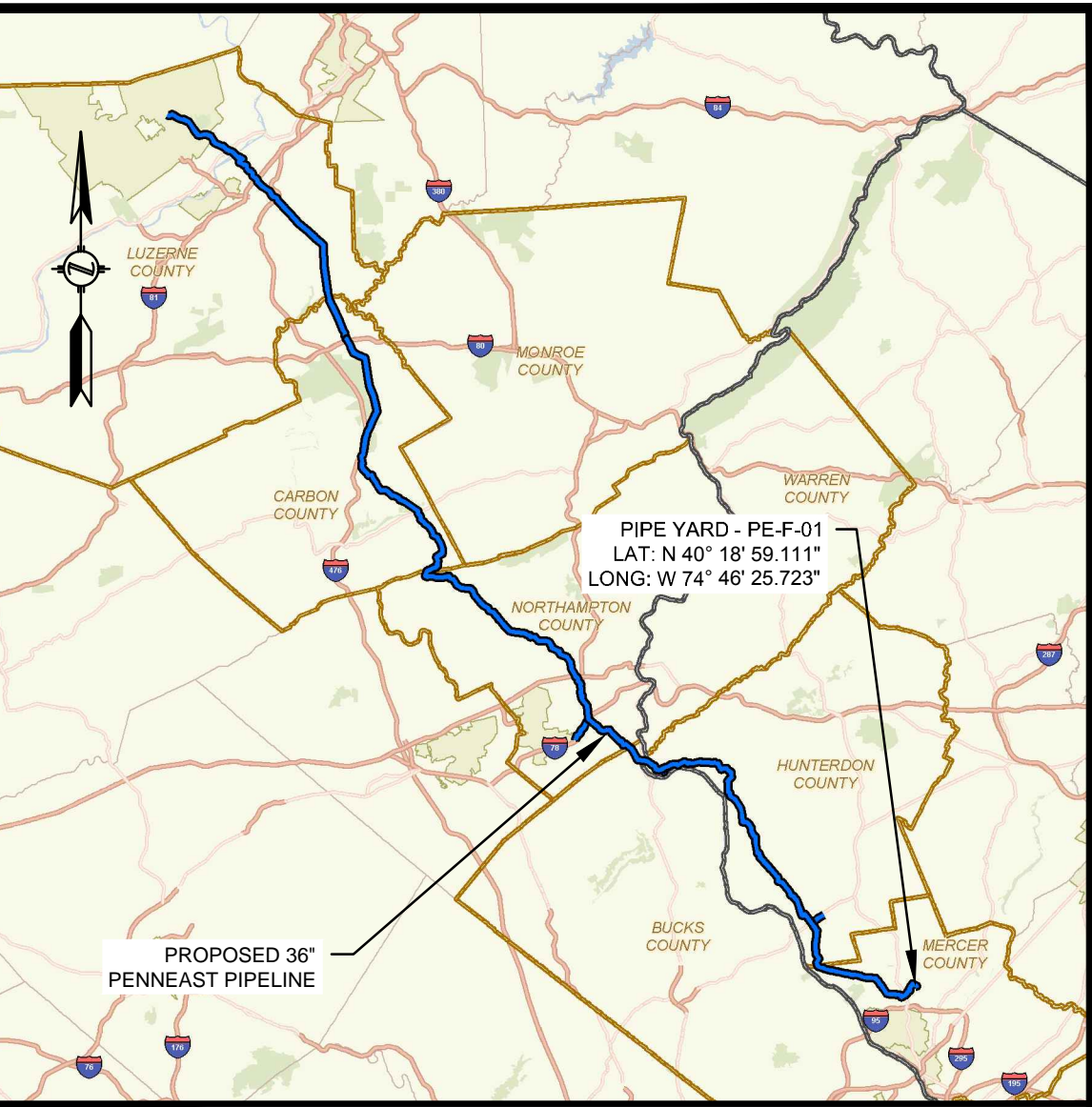
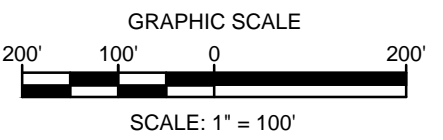
MERCER COUNTY, NEW JERSEY

EQUATION
 STA 593+10 Back
 STA 593+23 Ahead
 DM = -13 FT

PROPOSED PIPE YARD - PE-F-01
 26.3 ACRES

PROPOSED TRANSCO
 INTERCONNECT SITE

PROPOSED TRANSCO
 RECEIVER SITE



LOCATION MAP
 SCALE: 1" = 15 MILES

LEGENDS

PROPOSED

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		H	ISSUED FOR FERC	09/16/2016	DRG (MM)	DOW (MM)	MDN (MM)

APPROVALS	
DRAWN BY	DATE
DRG (MM)	09/2016
CHECKED BY	DATE
DOW (MM)	09/2016
ENG. APPROVAL	DATE
MDN (MM)	09/2016
P.M. APPROVAL	DATE
MAW (MM)	09/2016

PREPARED FOR

PENNEAST PIPELINE PROJECT		
PIPE YARD DETAILS PIPE YARD - PE-F-01 MERCER COUNTY, NEW JERSEY		
SCALE	DRAWING NO.	REVISION
AS SHOWN	000-03-04-013	H

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