

DWG. NO.	DWG. TITLE
<b><u>SEGMENT F - WRIGHT TO DRACUT PIPELINE</u></b>	
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PAGE 38	WAREYARD QUAD SHEET
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PAGE 39	WAREYARD QUAD SHEET
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<b><u>SEGMENT G - WRIGHT TO DRACUT PIPELINE</u></b>	
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PAGE 36	QUAD SHEET

TENNESSEE GAS PIPELINE COMPANY, L.L.C.  
NORTHEAST ENERGY DIRECT PROJECT

MARKET PATH COMPONENT

COVER SHEET



Tennessee Gas Pipeline Company, L.L.C.  
a Kinder Morgan company



Hatch Mott MacDonald

150 Lower Westfield Rd.  
Holyoke, MA 01040  
Ph: (413) 535-0135 Fax: (413) 535-0136

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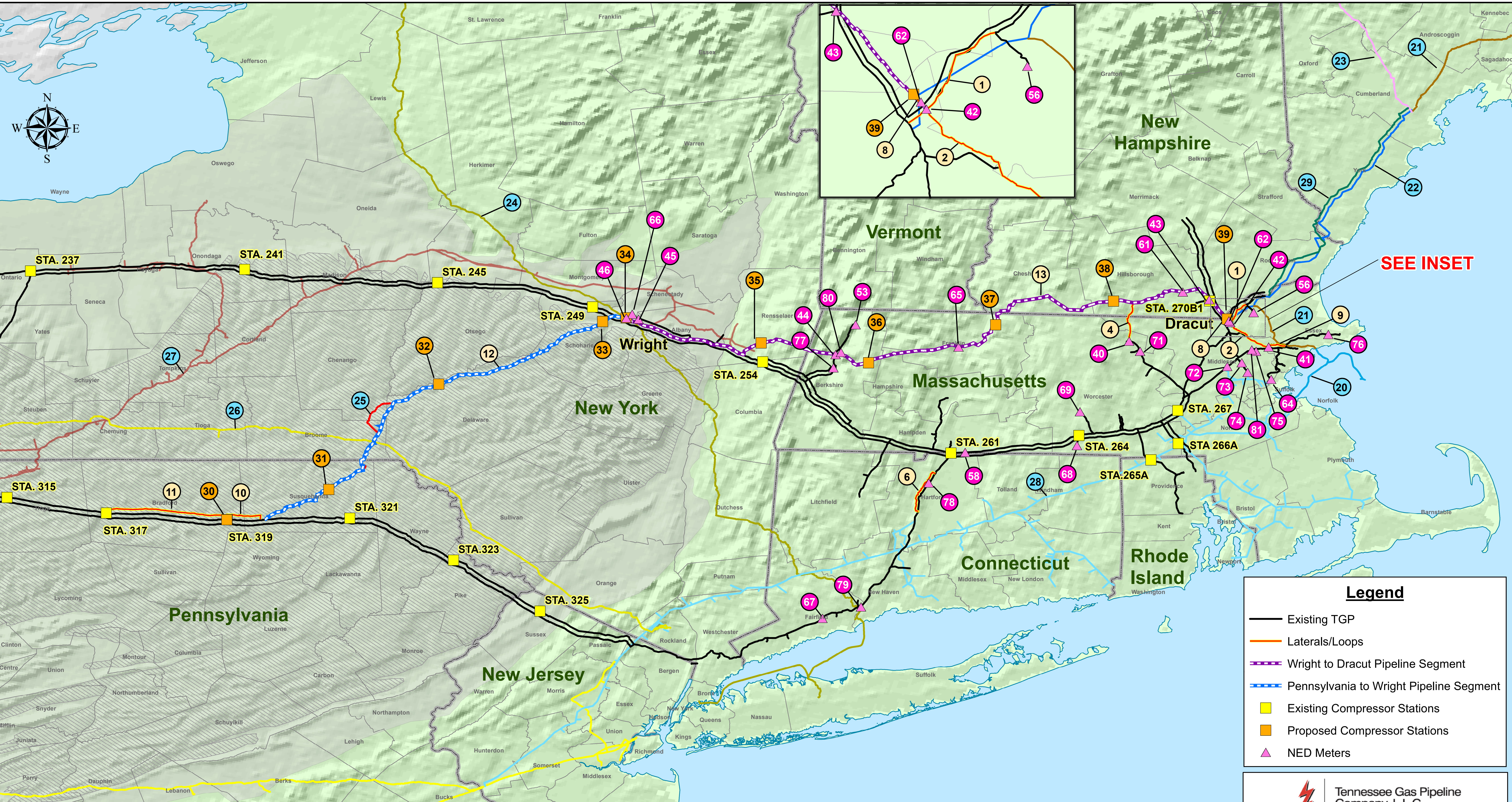
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SEE INSET

### Legend

- Existing TGP
- Laterals/Loops
- Wright to Dracut Pipeline Segment
- Pennsylvania to Wright Pipeline Segment
- Existing Compressor Stations
- Proposed Compressor Stations
- NED Meters

Tennessee Gas Pipeline Company, L.L.C.  
a Kinder Morgan company

## Northeast Energy Direct (NED) Project Location Map

Created By: BWR  
Date: 10/12/2015  
Oct\_2015\_FINAL\_FERC\_Filing

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NED Pipeline	MAOP	MOP	State	Dia	Length (mi)
1 Haverhill Lateral	800	750	MA/NH	20"	9.27
2 Lynnfield Lateral	1460	1460	MA	24"	14.28
4 Fitchburg Lateral Extension	1460	1460	MA/NH	12"	13.97
6 300 Line CT Loop	800	719	CT	24"	14.80
8 Maritimes Delivery Line	1460	1460	MA	30"	0.75
9 Peabody Lateral	1460	730	MA	24"	5.32
10 Loop 319-3	1170	1170	PA	36"	9.96
11 Loop 317-3	1170	1170	PA	36"	30.98
12 Pennsylvania to Wright Pipeline Segment	1460*	1460*	PA/NY	30"	132.55
13 Wright to Dracut Pipeline Segment	1460	1460	NY/MA/NH	30"	187.78

\*MAOP/MOP between Supply Path Tail Station & Market Path Head Station is 1600  
\*MOP upstream of Supply Path Head Station is 1170

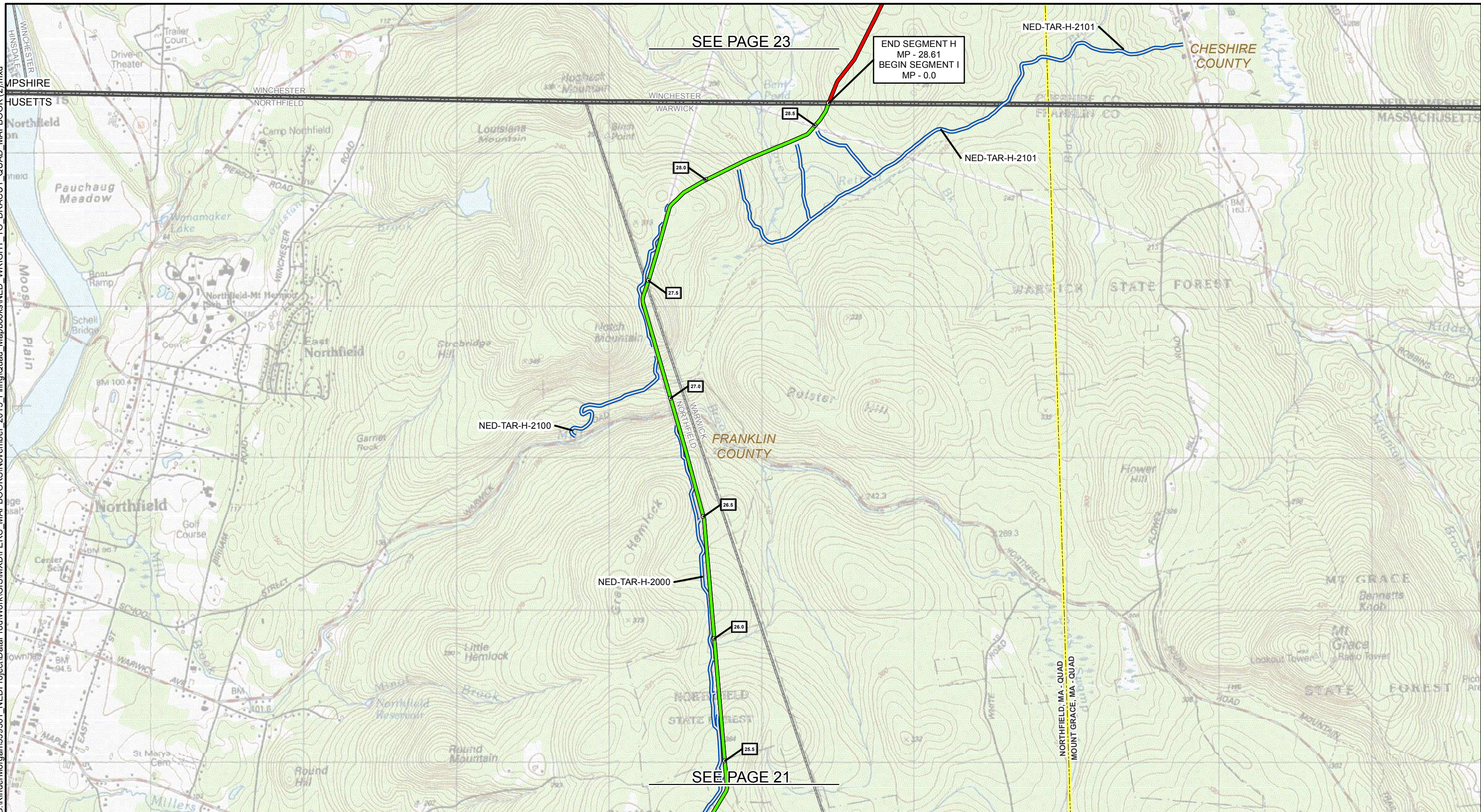
Pipelines
20 Hub Line
21 M&NP
22 M&NP & PNGTS Joint Facilities
23 PNGTS
24 Iroquois
25 Constitution
26 Millennium
27 Dominion
28 Algonquin
29 Granite State Gas Transmission

Metering & Regulation
40 Fitchburg Lateral Check
41 200-1 Check
42 Haverhill Check
43 200-2 Check
44 North Adams Check
45 NED/200 Line Bi-Directional OPP & Check
46 IGT-Constitution Bi-Directional Meter
53 North Adams Custody (20103)
56 Lawrence (20121)
58 Longmeadow
61 Merrimack
62 Maritimes
64 Everett
65 West Greenfield
66 NED Check
67 Easton (20853)
68 Southbridge (20108)
69 Spencer (20191)
71 Lunenburg (20949)
72 Lexington (20192)
73 Burlington (20341)
74 Arlington (20115)
75 Reading (20136)
76 Essex (20323)
77 Pittsfield (20102)
78 North Bloomfield (20453)
79 Milford (20425)
80 North Adams Regulator
81 Wilmington Regulator

Compressor Stations	Capacity (HP)
30 Station 319 Modifications	52,500 HP
31 Supply Path Head Station	52,500 HP
32 Supply Path Mid Station	50,500 HP
33 Supply Path Tail Station	50,500 HP
34 Market Path Head Station	20,600 HP
35 Market Path Mid Station 1	41,000 HP
36 Market Path Mid Station 2	41,000 HP
37 Market Path Mid Station 3	41,000 HP
38 Market Path Mid Station 4	41,000 HP
39 Market Path Tail Station	23,000 HP



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1 MILE POST	PROPOSED NORTHEAST ENERGY DIRECT PIPELINE CENTERLINE	PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
PROPOSED NORTHEAST ENERGY DIRECT WRIGHT TO DRACUT - SEGMENT F CENTERLINE	PROPOSED ACCESS ROAD* NED: Proposed Access Road CON: Proposed Constitution Access Road TGP: Previously Used TGP Access Road	MUNICIPAL BOUNDARY
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## TENNESSEE GAS PIPELINE COMPANY, L.L.C.

### NORTHEAST ENERGY DIRECT PROJECT

#### WRIGHT TO DRACUT QUAD MAPBOOK

##### SEGMENT H, I

FRANKLIN COUNTY  
MASSACHUSETTS

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ABSOLUTE SCALE:  
1:24,000

REFERENCE SCALE:  
1 IN = 2,000 FEET

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a Kinder Morgan company

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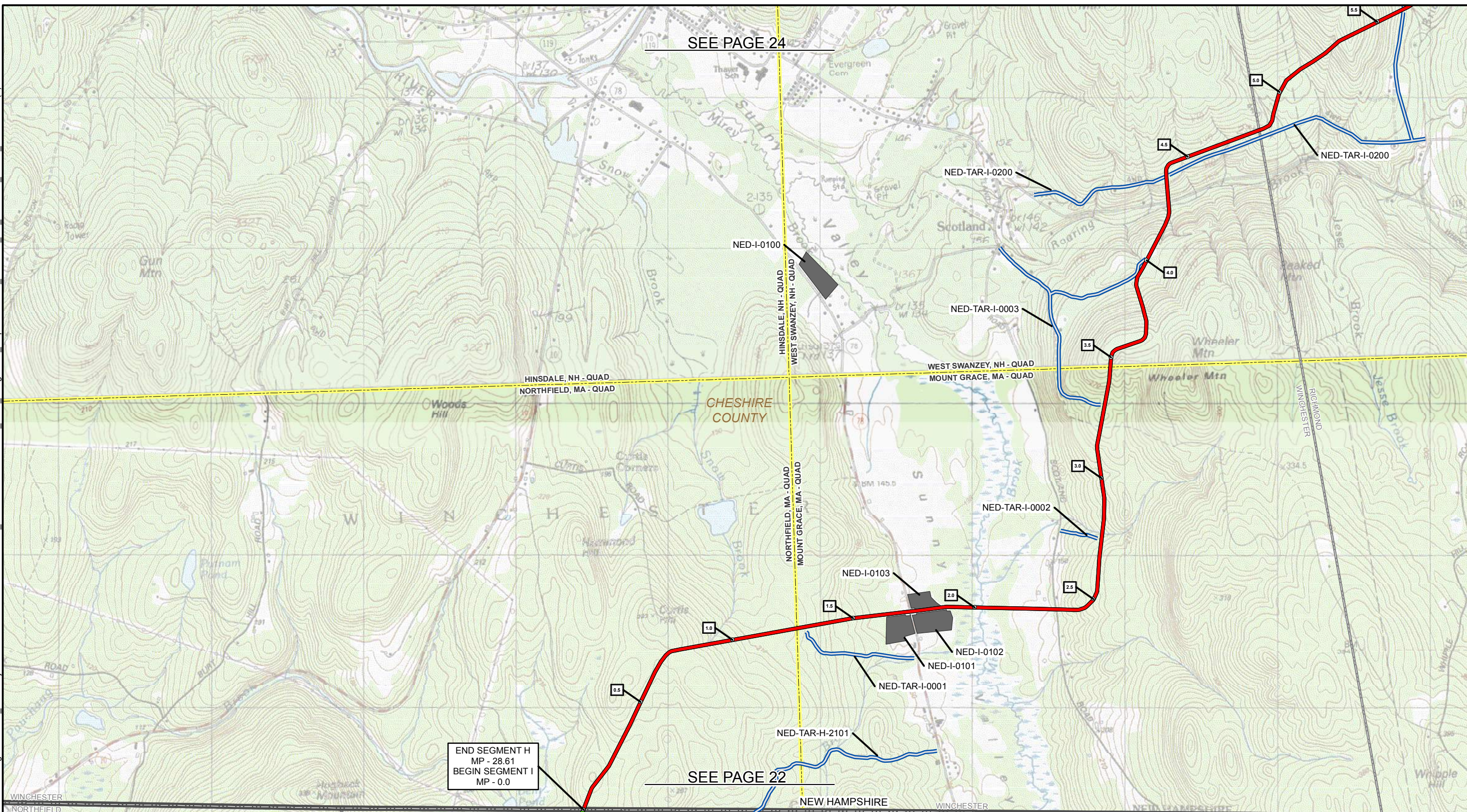
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**WRIGHT TO DRACUT QUAD MAPBOOK**  
**SEGMENT I**  
 CHESHIRE COUNTY  
 NEW HAMPSHIRE

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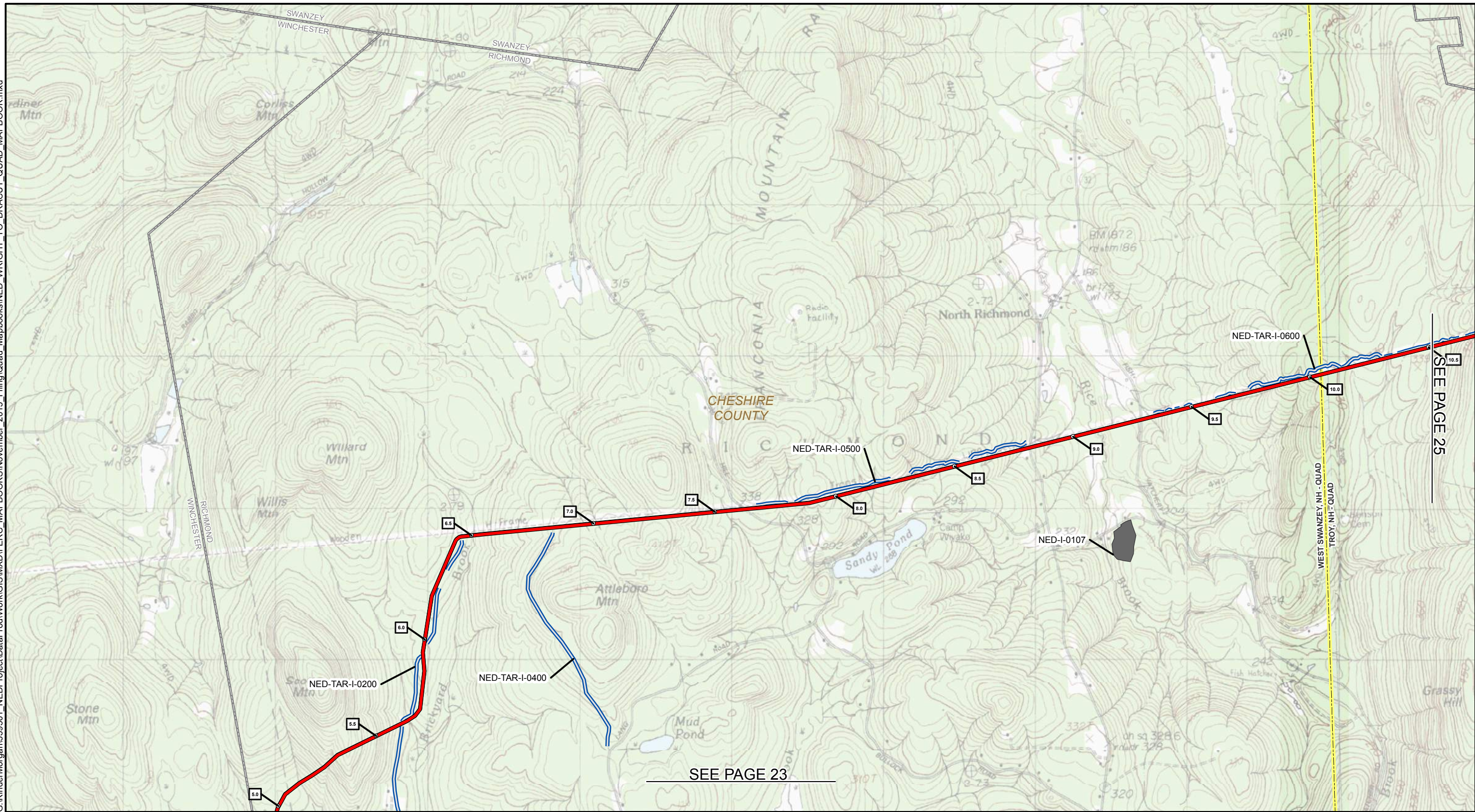
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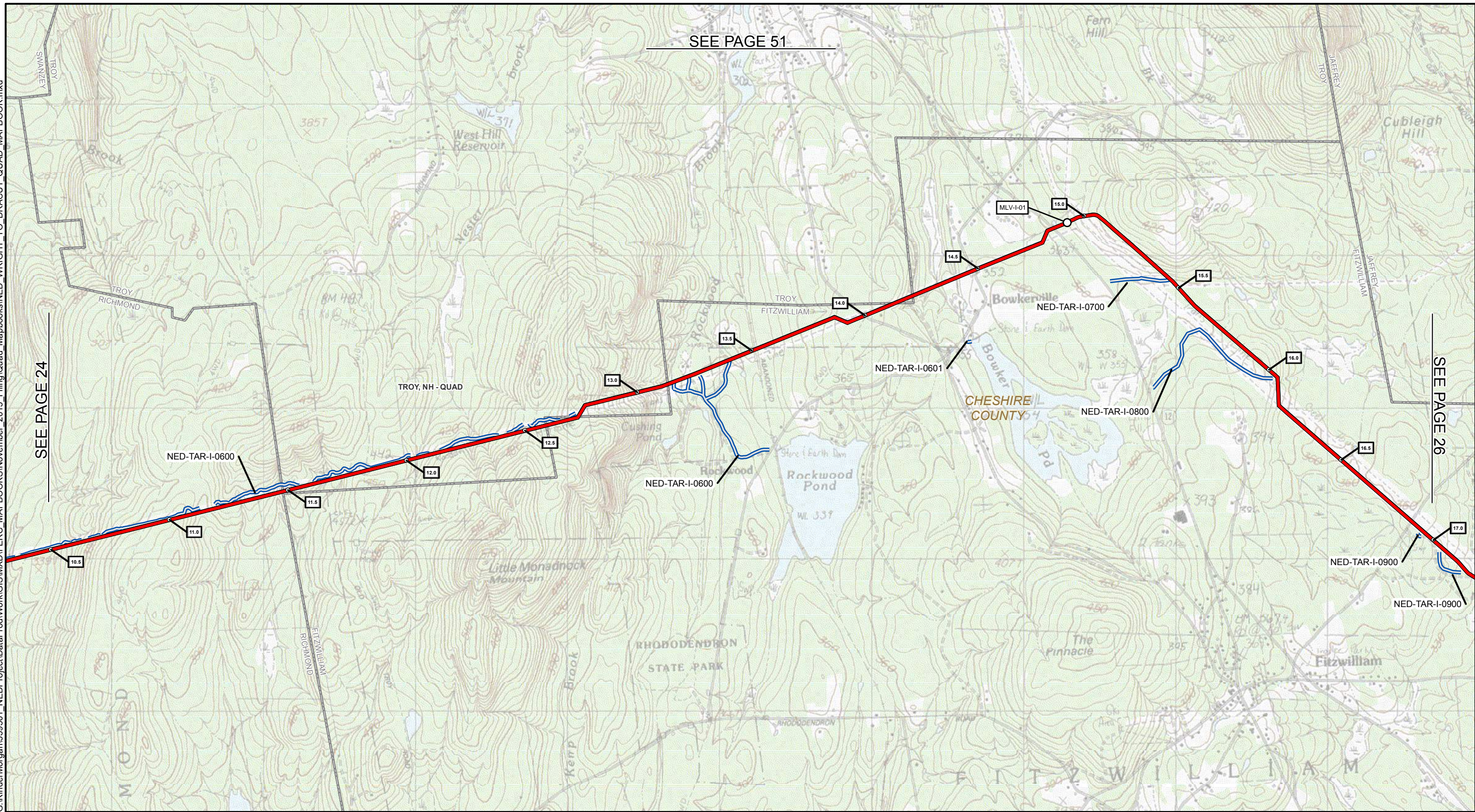
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## TENNESSEE GAS PIPELINE COMPANY, L.L.C.

### NORTHEAST ENERGY DIRECT PROJECT

#### WRIGHT TO DRACUT QUAD MAPBOOK

##### SEGMENT I

CHESHIRE COUNTY  
NEW HAMPSHIRE

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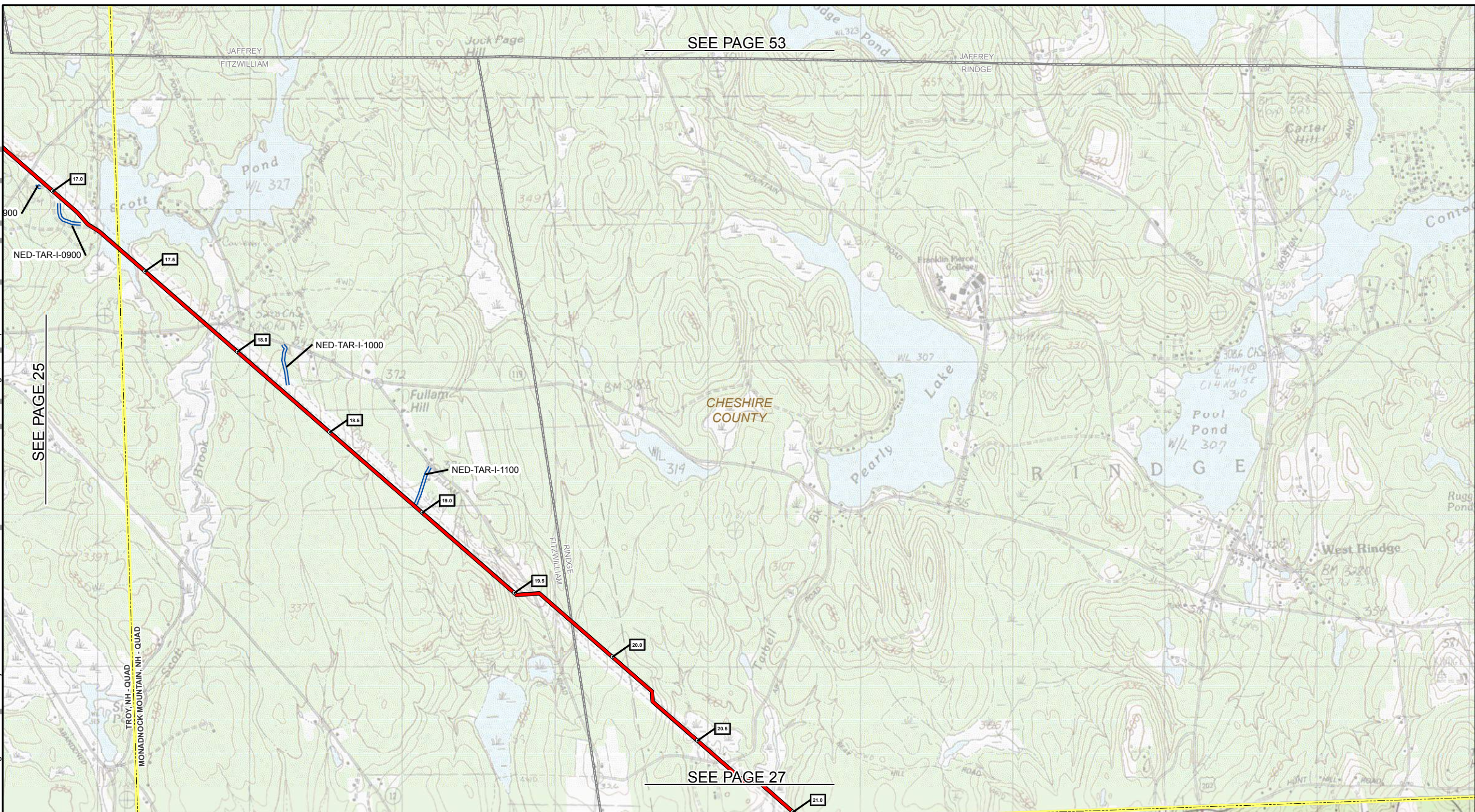
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#### WRIGHT TO DRACUT QUAD MAPBOOK

##### SEGMENT I

CHESHIRE COUNTY  
NEW HAMPSHIRE

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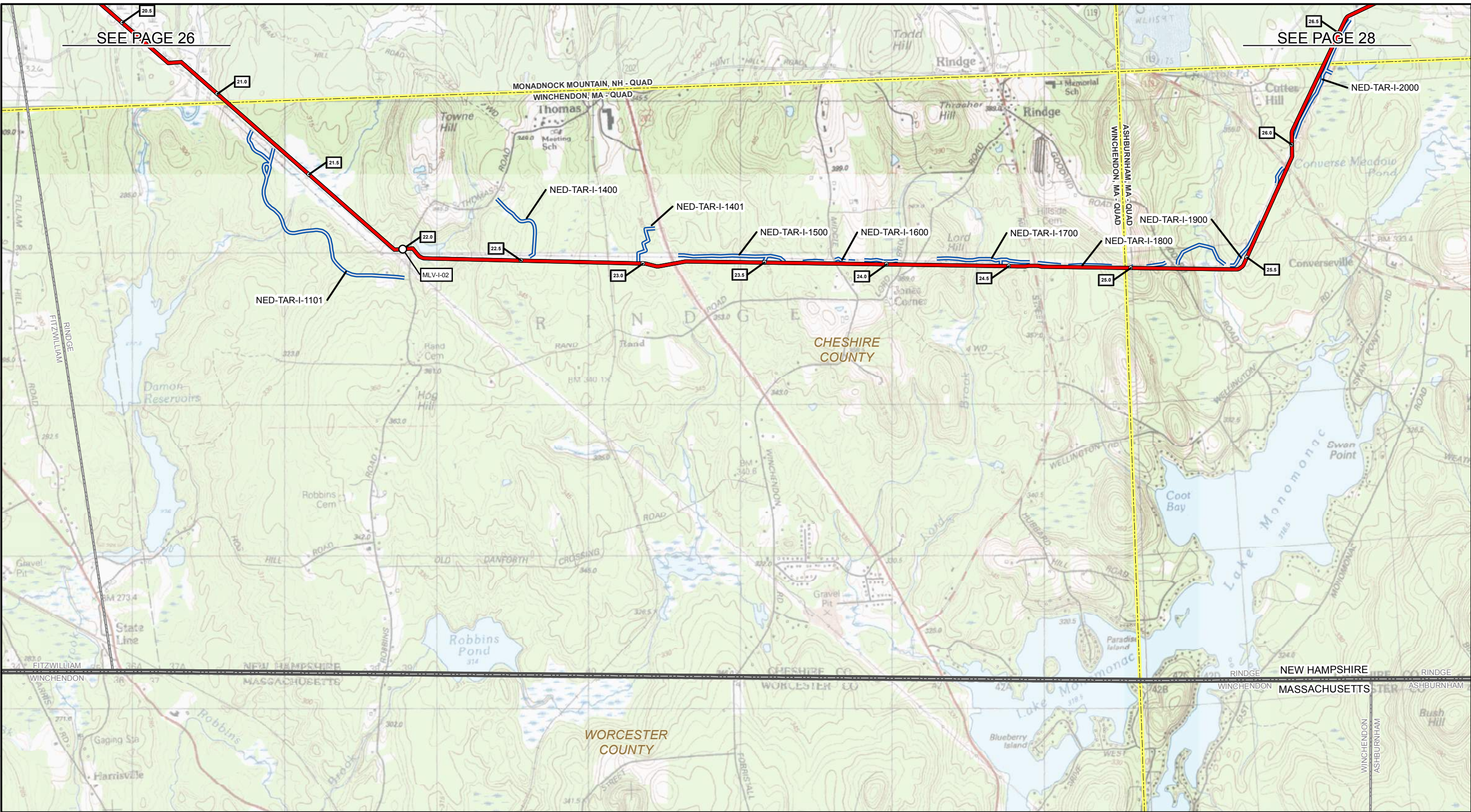
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#### WRIGHT TO DRACUT QUAD MAPBOOK

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NEW HAMPSHIRE

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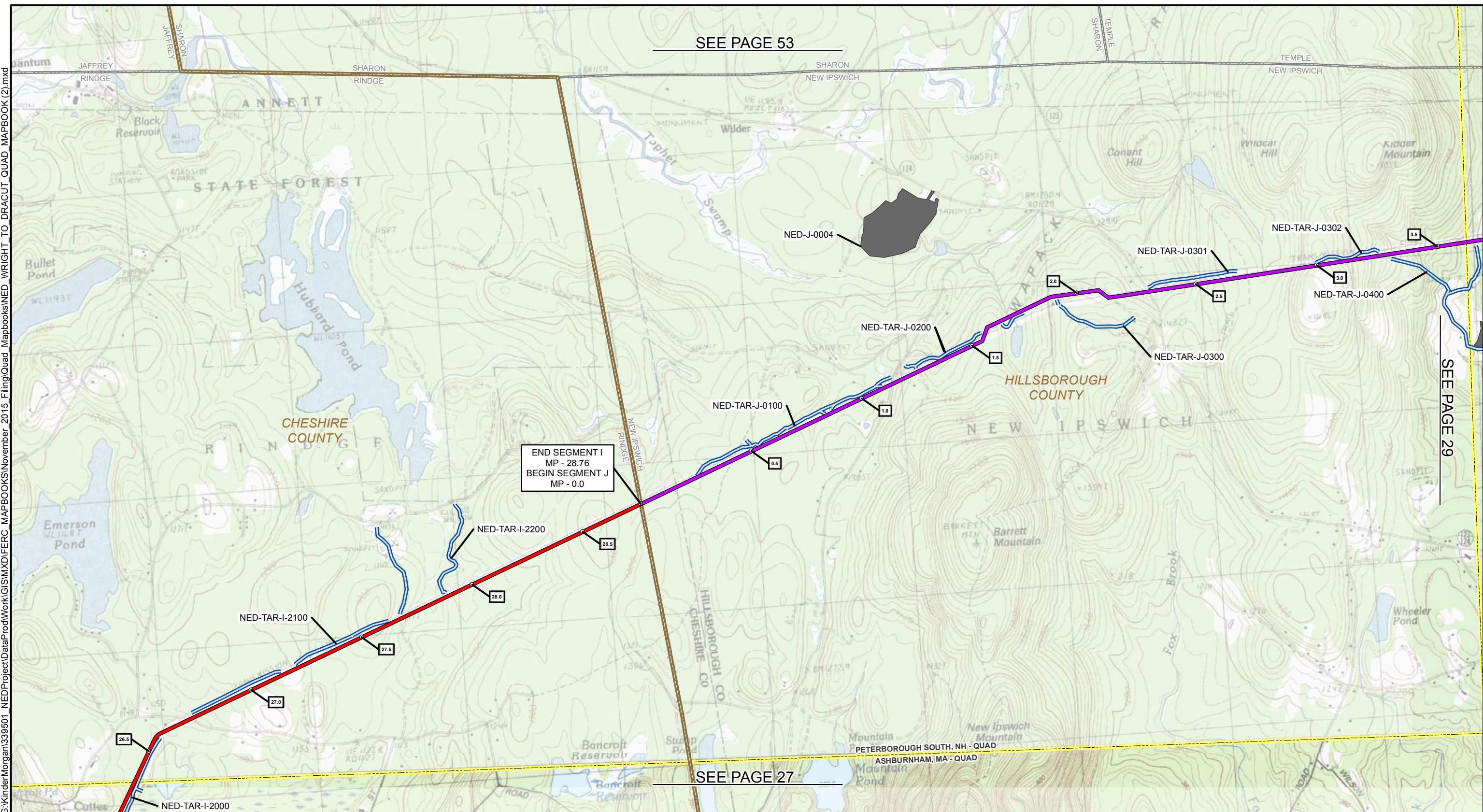


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### NORTHEAST ENERGY DIRECT PROJECT

#### WRIGHT TO DRACUT QUAD MAPBOOK

#### SEGMENT I, J

CHESHIRE & HILLSBOROUGH COUNTIES  
NEW HAMPSHIRE

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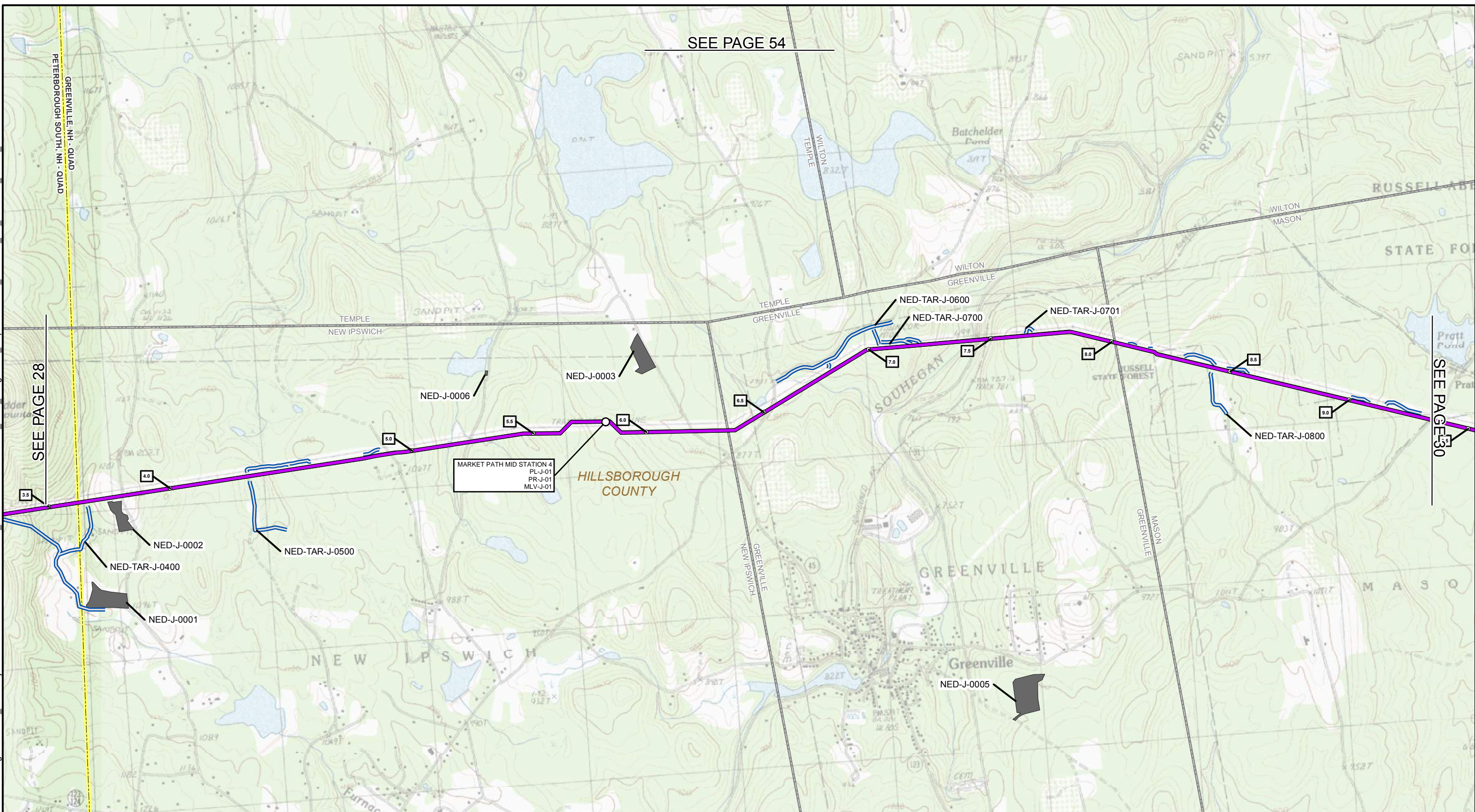
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PROPOSED NORTHEAST ENERGY DIRECT WRIGHT TO DRACUT - SEGMENT I CENTERLINE		USGS QUADRANGLE BOUNDARY
PROPOSED NORTHEAST ENERGY DIRECT WRIGHT TO DRACUT - SEGMENT J CENTERLINE		
PROPOSED NORTHEAST ENERGY DIRECT WRIGHT TO DRACUT - SEGMENT K CENTERLINE		

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**MAP COMPILED USING THE MOST CURRENT QUADRANGLE MAP AVAILABLE FROM THE U.S. GEOLOGICAL SURVEY (USGS).**

## TENNESSEE GAS PIPELINE COMPANY, L.L.C.

### NORTHEAST ENERGY DIRECT PROJECT

#### WRIGHT TO DRACUT QUAD MAPBOOK

#### SEGMENT J

HILLSBOROUGH COUNTY  
NEW HAMPSHIRE

ABSOLUTE SCALE:  
1:24,000

REFERENCE SCALE:  
1 IN = 2,000 FEET

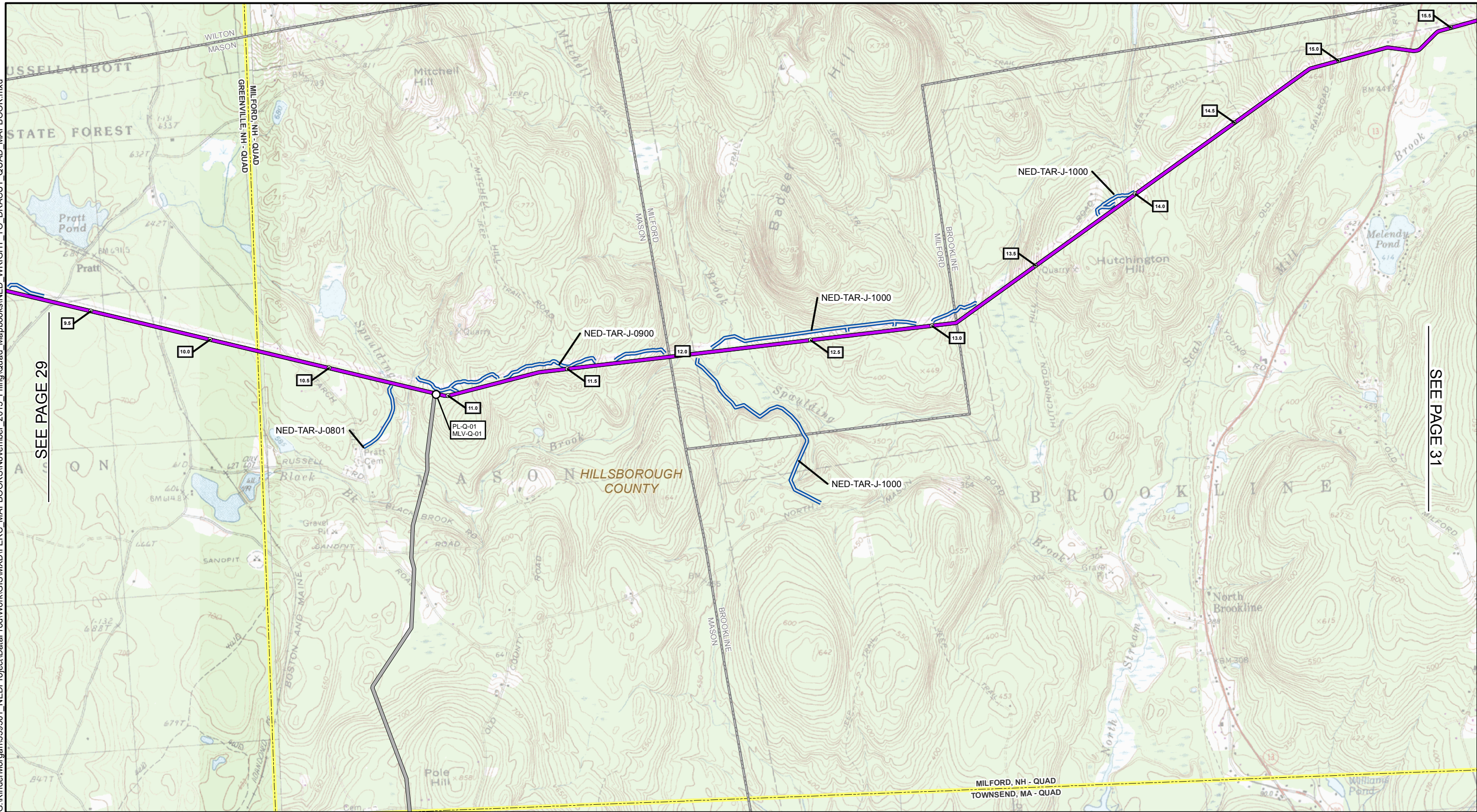
**Tennessee Gas Pipeline Company, L.L.C.**  
a Kinder Morgan company

**Hatch Mott MacDonald**

150 Lower Westfield Rd.  
Holyoke, MA 01040  
Ph: (413) 535-0135 Fax: (413) 535-0136

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<b>PAGE:</b>	29 OF 56





<b>1</b> MILE POST	PROPOSED NORTHEAST ENERGY DIRECT PIPELINE CENTERLINE	PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
PROPOSED NORTHEAST ENERGY DIRECT WRIGHT TO DRACUT - SEGMENT F CENTERLINE	PROPOSED ACCESS ROAD NED: Proposed Access Road CON: Proposed Constitution Access Road TGP: Previously Used TGP Access Road	MUNICIPAL BOUNDARY
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**NORTHEAST ENERGY DIRECT PROJECT**  
**WRIGHT TO DRACUT QUAD MAPBOOK**  
**SEGMENT J**

HILLSBOROUGH COUNTY  
 NEW HAMPSHIRE

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**Tennessee Gas Pipeline Company, L.L.C.**  
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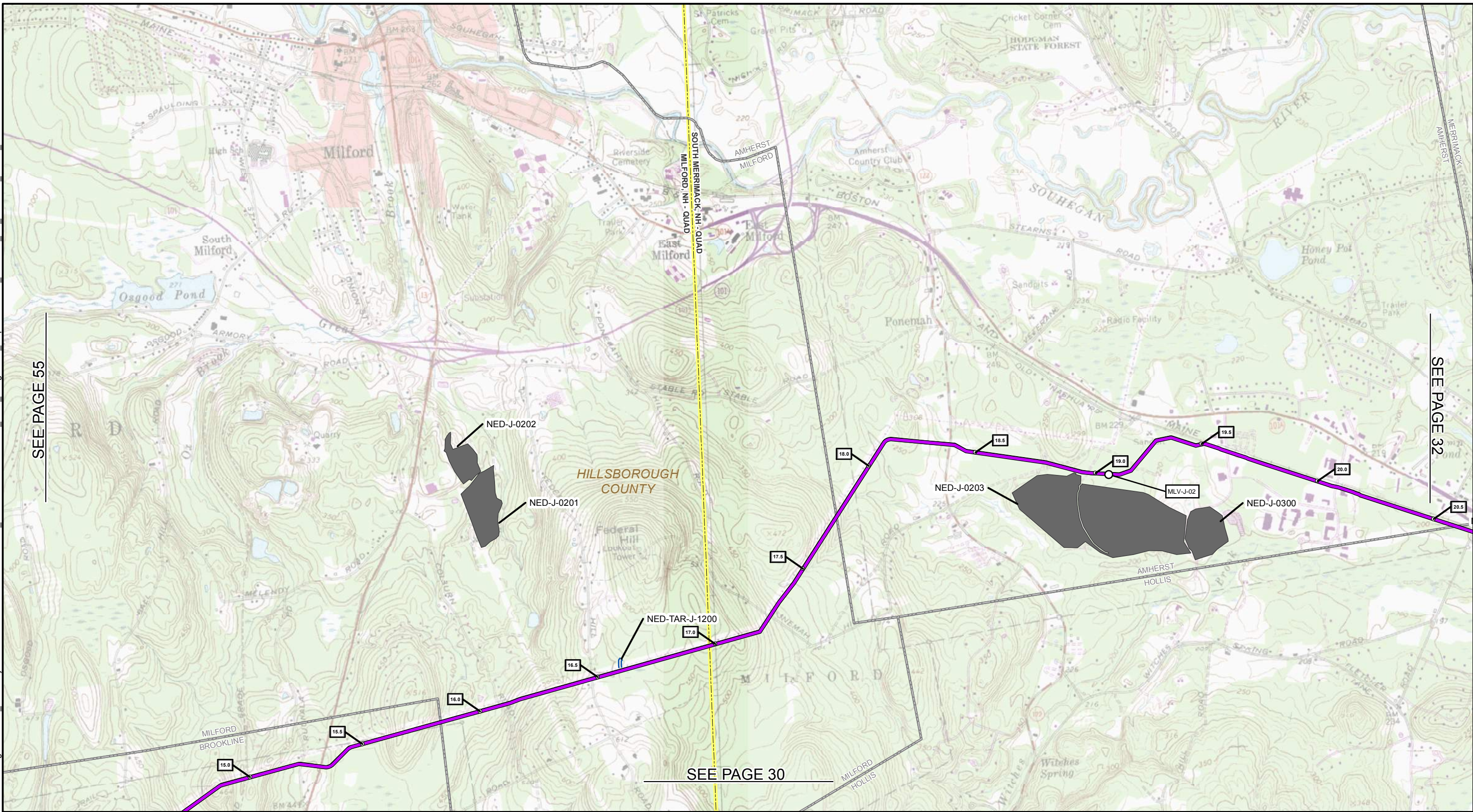
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SEE PAGE 29

SEE PAGE 31





SEE PAGE 55

SEE PAGE 32

SEE PAGE 30

<b>1</b> MILE POST	PROPOSED NORTHEAST ENERGY DIRECT PIPELINE CENTERLINE	PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
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HILLSBOROUGH COUNTY  
NEW HAMPSHIRE

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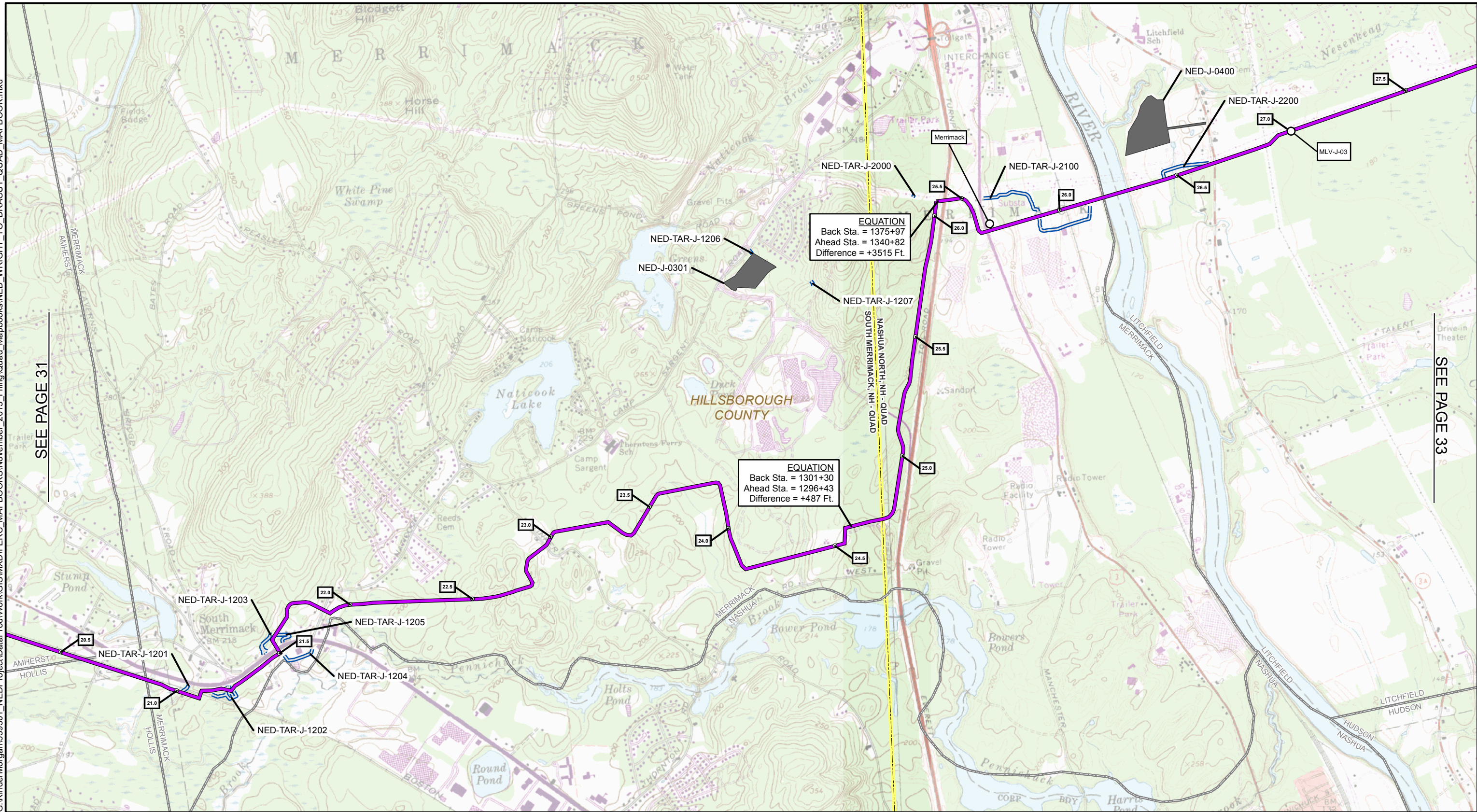
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**EQUATION**  
 Back Sta. = 1375+97  
 Ahead Sta. = 1340+82  
 Difference = +3515 Ft.

**EQUATION**  
 Back Sta. = 1301+30  
 Ahead Sta. = 1296+43  
 Difference = +487 Ft.

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**SEGMENT J**  
 HILLSBOROUGH COUNTY  
 NEW HAMPSHIRE

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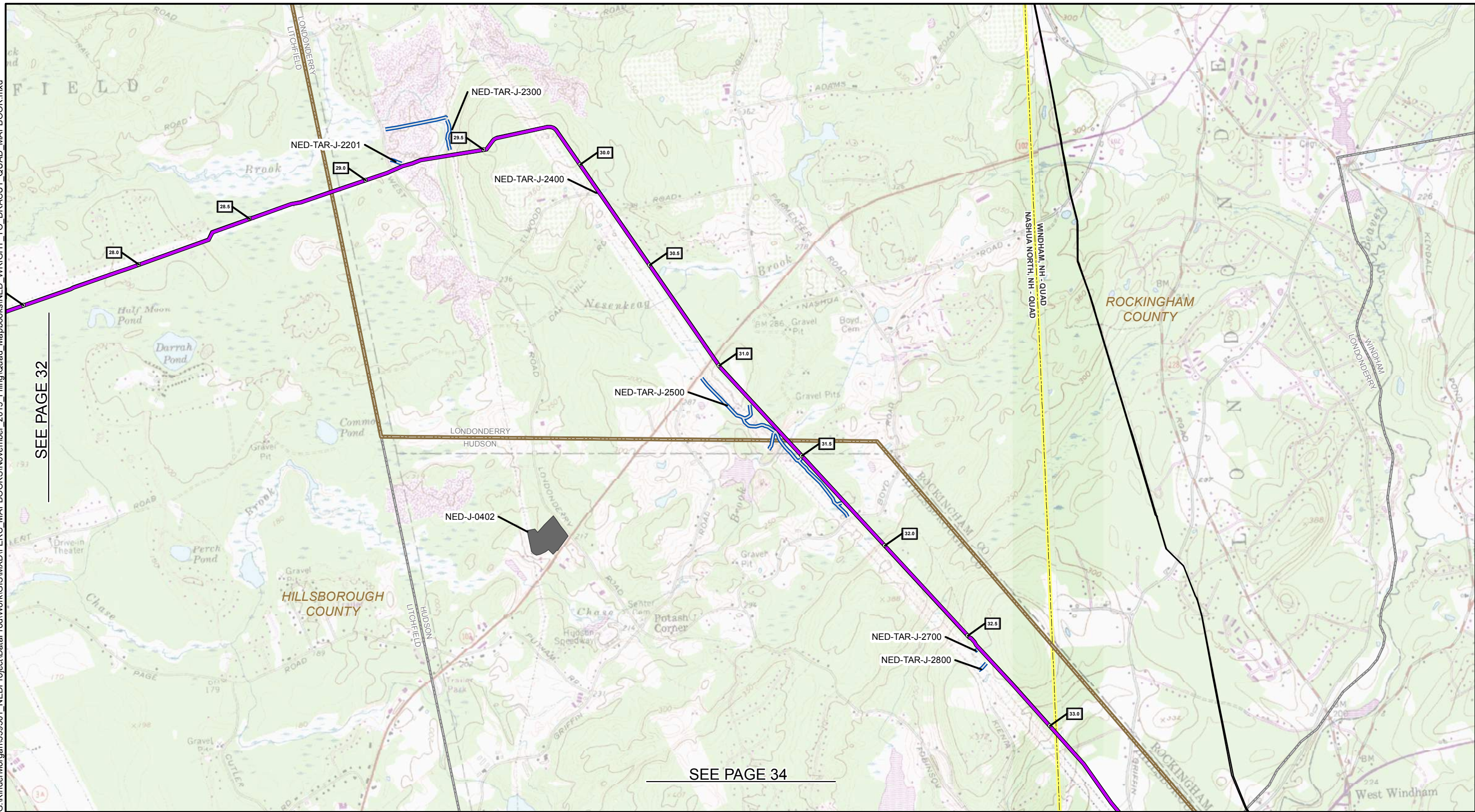
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**TENNESSEE GAS PIPELINE COMPANY, L.L.C.**  
**NORTHEAST ENERGY DIRECT PROJECT**  
**WRIGHT TO DRACUT QUAD MAPBOOK**  
**SEGMENT J**

HILLSBOROUGH & ROCKINGHAM COUNTIES  
 NEW HAMPSHIRE

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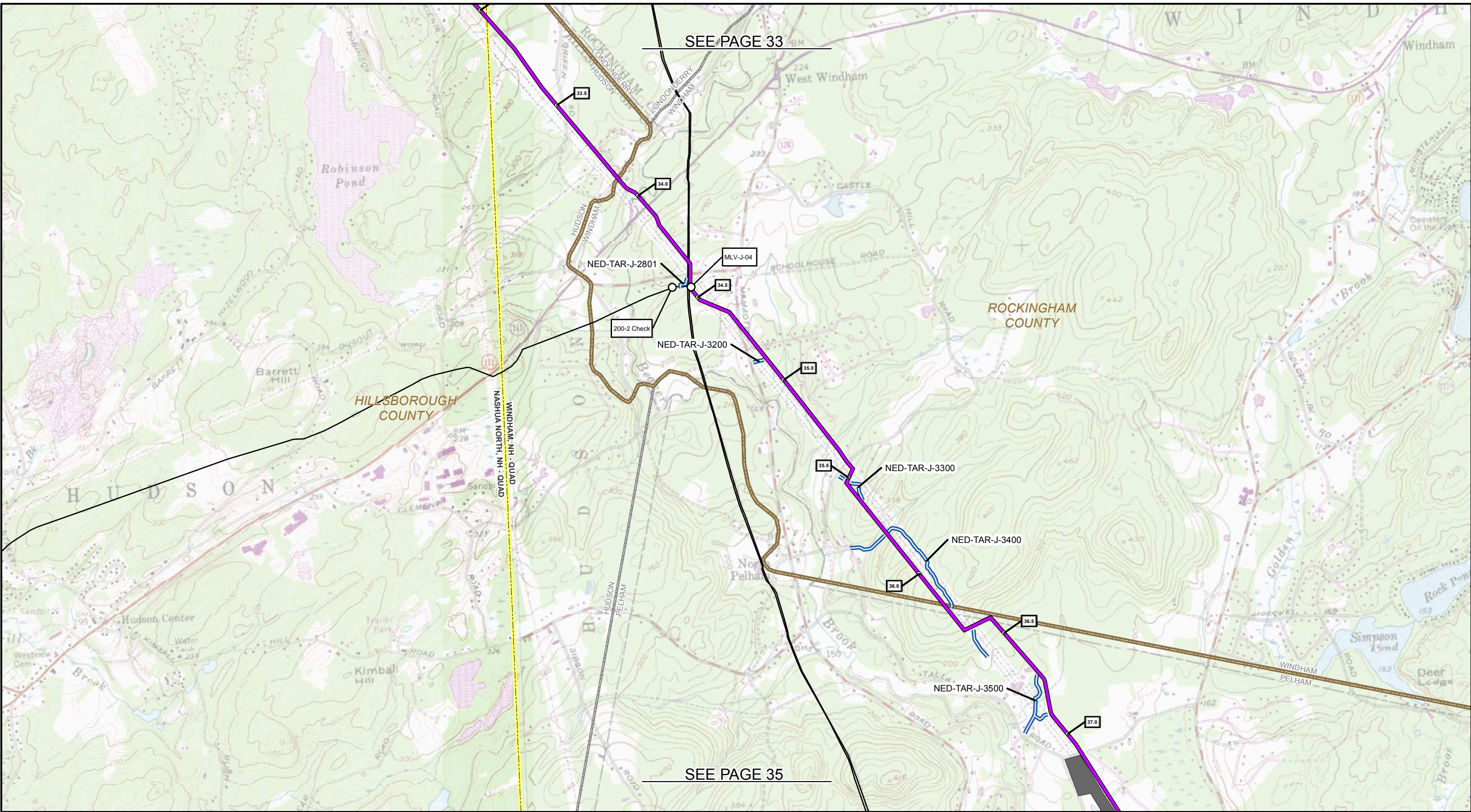
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## TENNESSEE GAS PIPELINE COMPANY, L.L.C. NORTHEAST ENERGY DIRECT PROJECT WRIGHT TO DRACUT QUAD MAPBOOK SEGMENT J

HILLSBOROUGH & ROCKINGHAM COUNTIES  
NEW HAMPSHIRE

ABSOLUTE SCALE:  
1:24,000

REFERENCE SCALE:  
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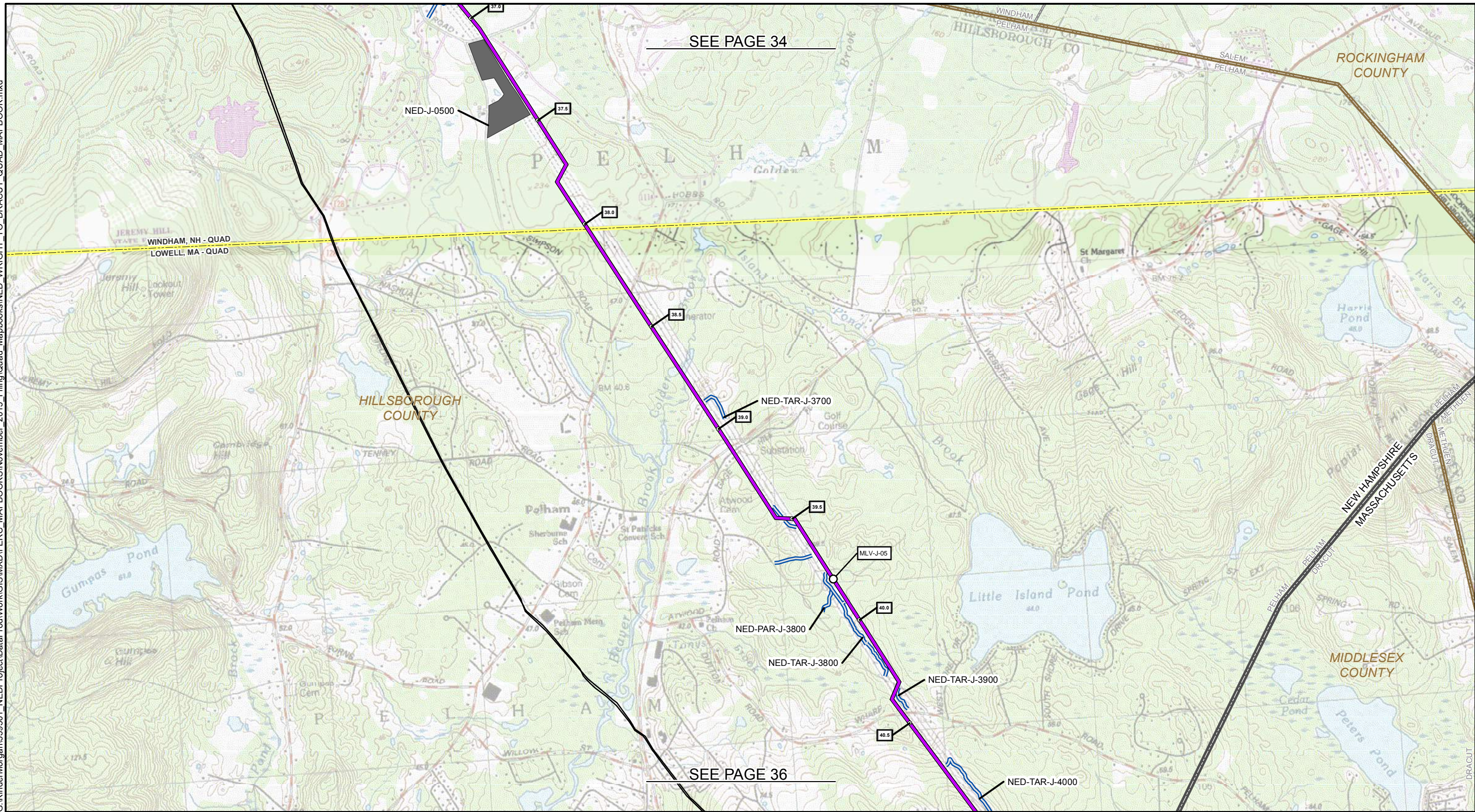
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SEE PAGE 34

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<b>1</b> MILE POST	PROPOSED NORTHEAST ENERGY DIRECT PIPELINE CENTERLINE	PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
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**TENNESSEE GAS PIPELINE COMPANY, L.L.C.**  
**NORTHEAST ENERGY DIRECT PROJECT**  
**WRIGHT TO DRACUT QUAD MAPBOOK**  
**SEGMENT J**  
 HILLSBOROUGH COUNTY  
 NEW HAMPSHIRE

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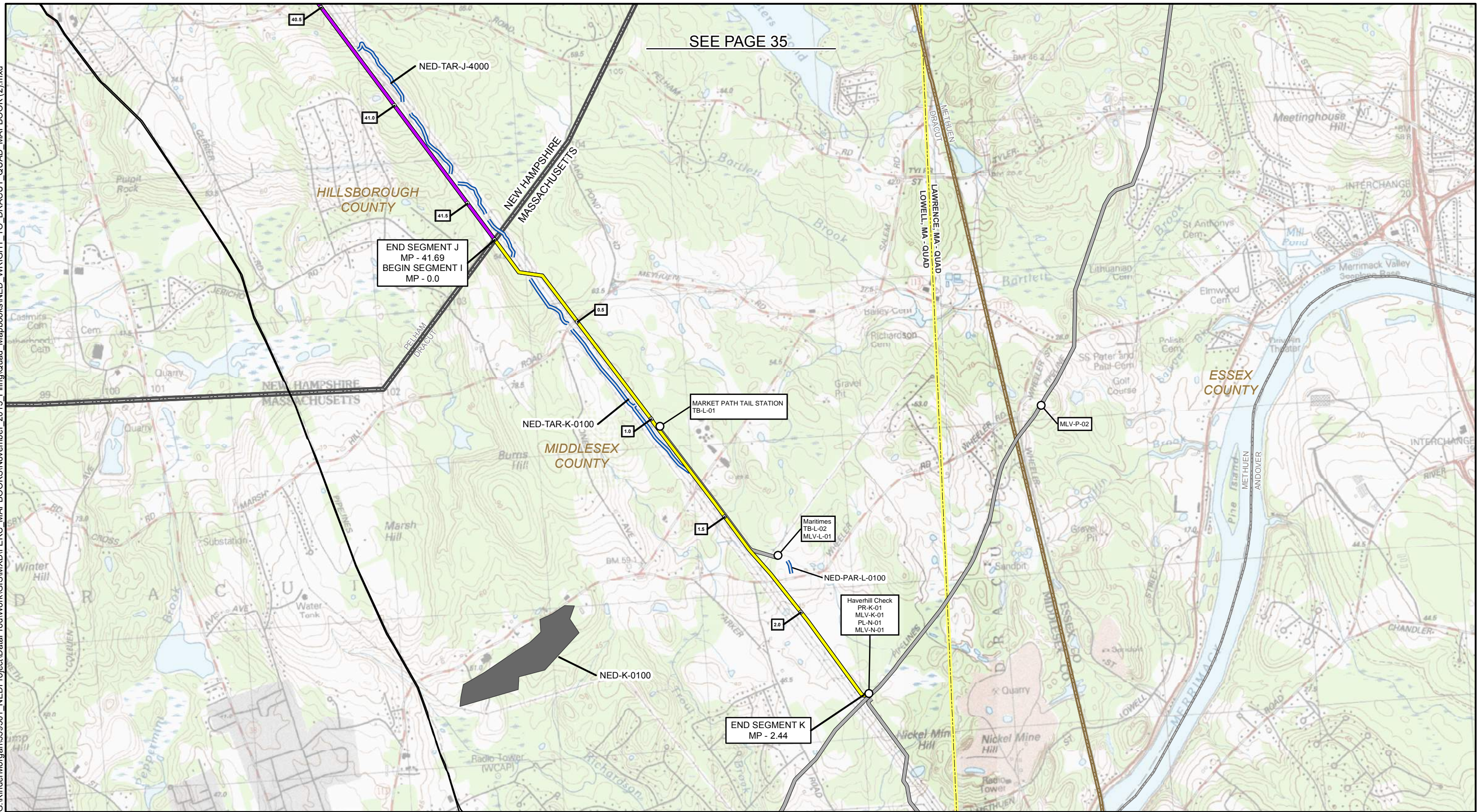
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<b>1</b> MILE POST	PROPOSED NORTHEAST ENERGY DIRECT PIPELINE CENTERLINE	PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
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# TENNESSEE GAS PIPELINE COMPANY, L.L.C.

## NORTHEAST ENERGY DIRECT PROJECT

### WRIGHT TO DRACUT QUAD MAPBOOK

#### SEGMENT J, K

MIDDLESEX COUNTY, MASSACHUSETTS AND HILLSBOROUGH COUNTY  
NEW HAMPSHIRE



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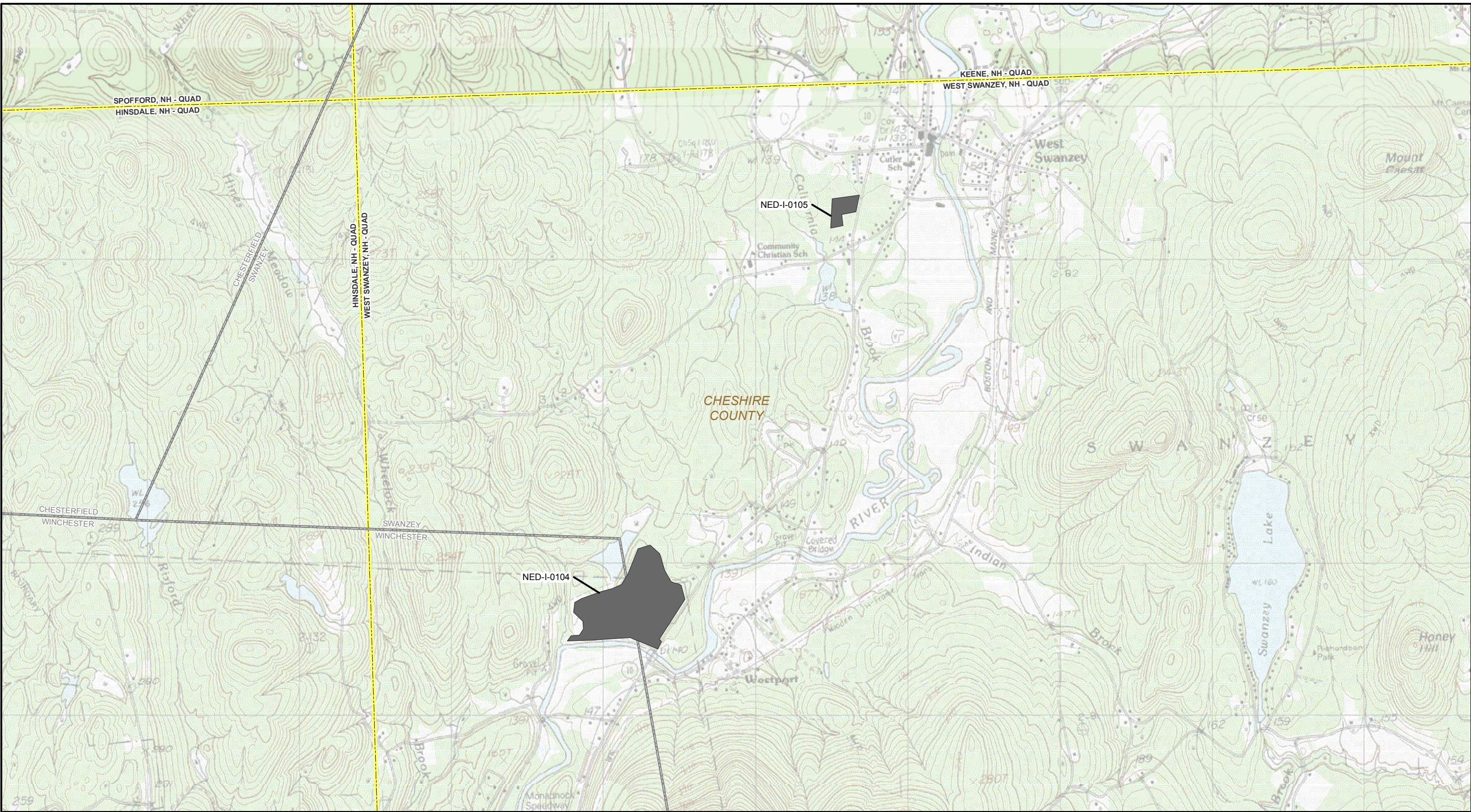
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1 MILE POST	PROPOSED NORTHEAST ENERGY DIRECT PIPELINE CENTERLINE	PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
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## TENNESSEE GAS PIPELINE COMPANY, L.L.C.

### NORTHEAST ENERGY DIRECT PROJECT

#### WRIGHT TO DRACUT QUAD MAPBOOK

##### SEGMENT I

CHESHIRE COUNTY  
NEW HAMPSHIRE

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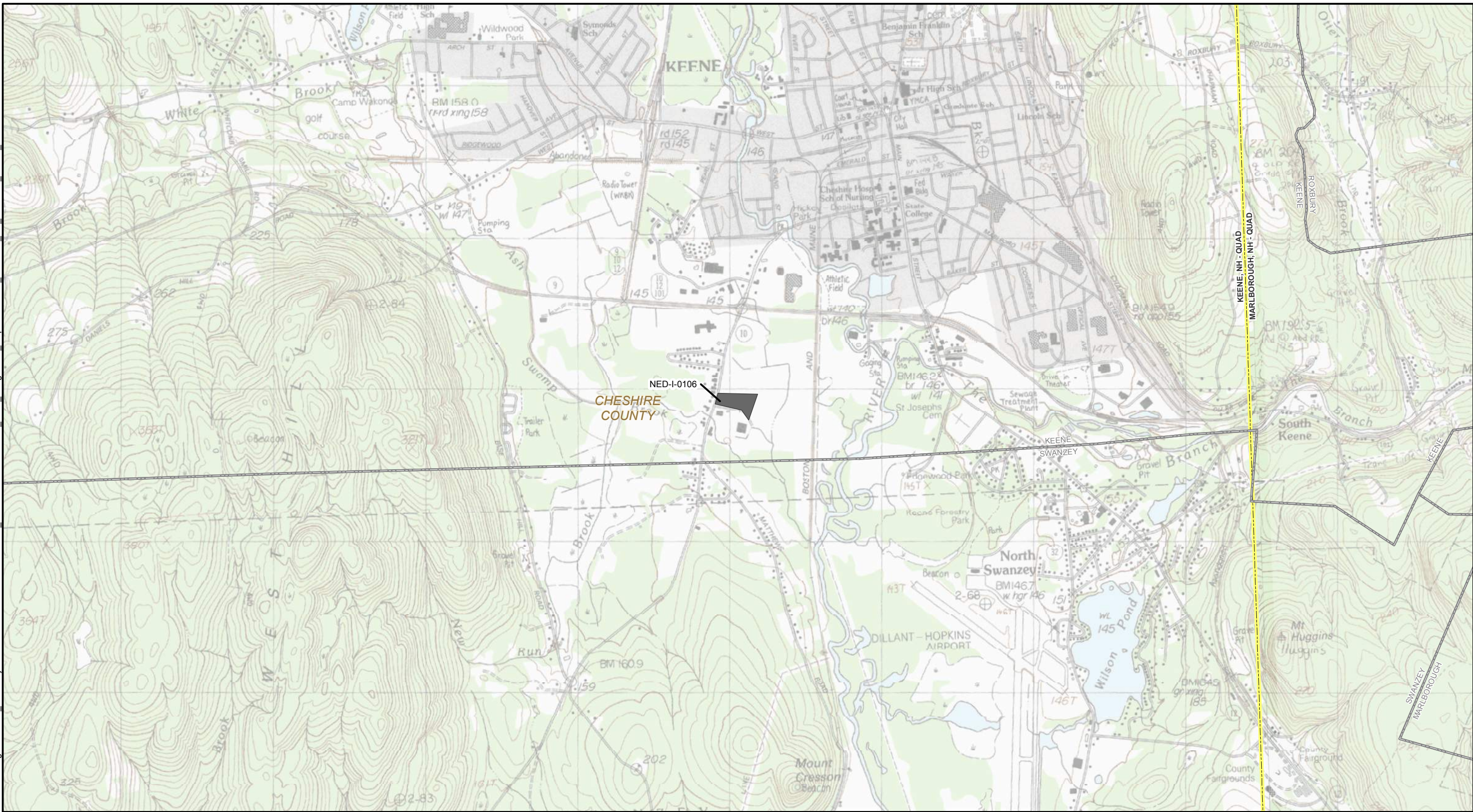
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#### WRIGHT TO DRACUT QUAD MAPBOOK

##### SEGMENT I

CHESHIRE COUNTY  
NEW HAMPSHIRE

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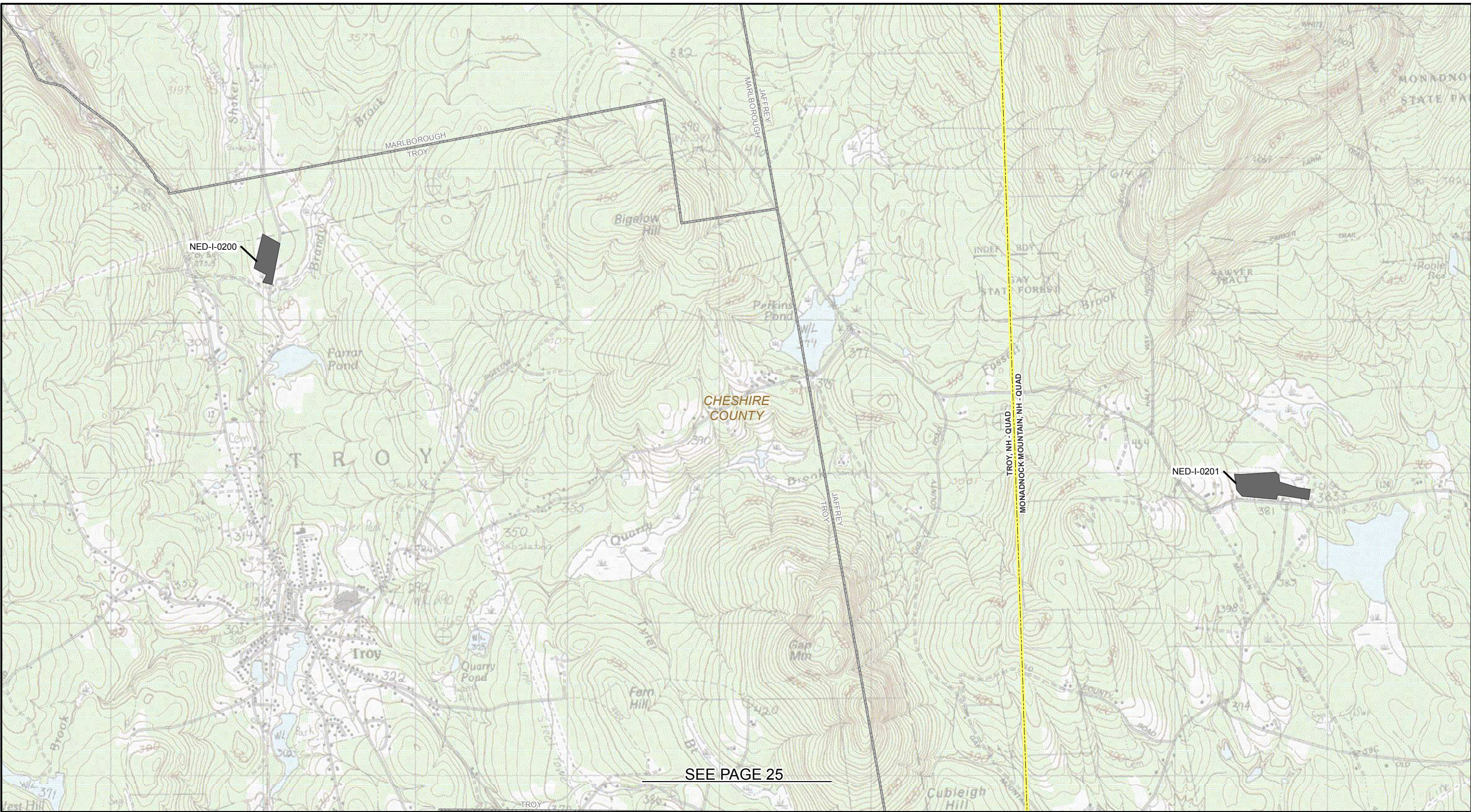
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SEE PAGE 25

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<b>PAGE:</b>	51 OF 56





<b>1</b> MILE POST	PROPOSED NORTHEAST ENERGY DIRECT PIPELINE CENTERLINE	PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
PROPOSED NORTHEAST ENERGY DIRECT WRIGHT TO DRACUT - SEGMENT F CENTERLINE	PROPOSED ACCESS ROAD* NED: Proposed Access Road CON: Proposed Constitution Access Road TGP: Previously Used TGP Access Road	MUNICIPAL BOUNDARY
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PROPOSED NORTHEAST ENERGY DIRECT WRIGHT TO DRACUT - SEGMENT I CENTERLINE		USGS QUADRANGLE BOUNDARY
PROPOSED NORTHEAST ENERGY DIRECT WRIGHT TO DRACUT - SEGMENT J CENTERLINE		
PROPOSED NORTHEAST ENERGY DIRECT WRIGHT TO DRACUT - SEGMENT K CENTERLINE		

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MAP COMPILED USING THE MOST CURRENT QUADRANGLE MAP AVAILABLE FROM THE U.S. GEOLOGICAL SURVEY (USGS).

## TENNESSEE GAS PIPELINE COMPANY, L.L.C.

### NORTHEAST ENERGY DIRECT PROJECT

#### WRIGHT TO DRACUT QUAD MAPBOOK

##### SEGMENT I, J

CHESHIRE & HILLSBOROUGH COUNTIES  
NEW HAMPSHIRE

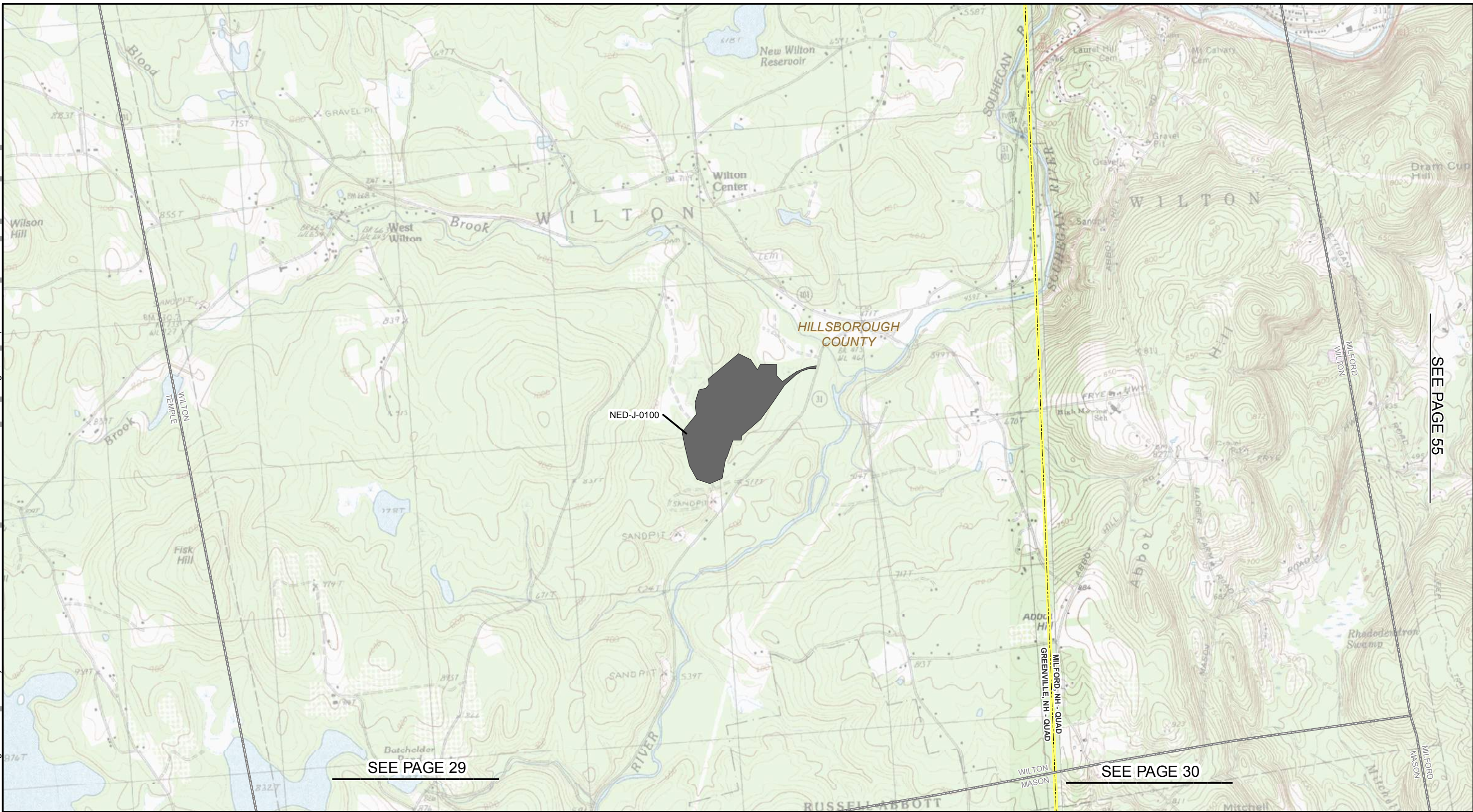
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REFERENCE SCALE:  
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150 Lower Westfield Rd.  
Holyoke, MA 01040  
Ph: (413) 535-0135 Fax: (413) 535-0136

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<b>REVISION:</b>	2
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<b>PAGE:</b>	53 OF 56





SEE PAGE 55

<b>1</b> MILE POST	PROPOSED NORTHEAST ENERGY DIRECT PIPELINE CENTERLINE	PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
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**TENNESSEE GAS PIPELINE COMPANY, L.L.C.**  
**NORTHEAST ENERGY DIRECT PROJECT**  
**WRIGHT TO DRACUT QUAD MAPBOOK**  
**SEGMENT J**

HILLSBOROUGH COUNTY  
 NEW HAMPSHIRE

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ABSOLUTE SCALE:  
1:24,000

REFERENCE SCALE:  
1 IN = 2,000 FEET

**Tennessee Gas Pipeline Company, L.L.C.**  
a Kinder Morgan company

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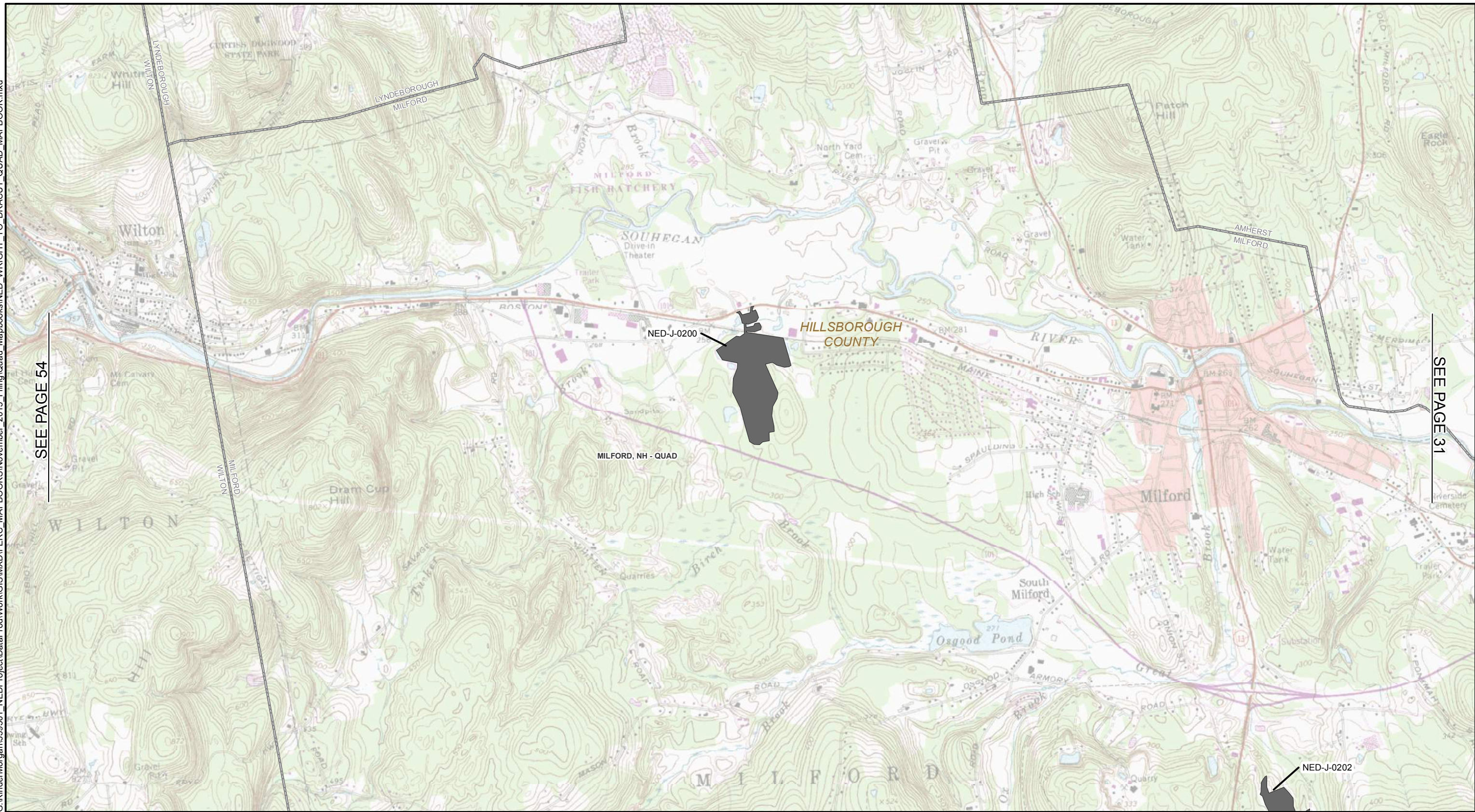
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SEE PAGE 54

SEE PAGE 31



<b>1</b> MILE POST	PROPOSED NORTHEAST ENERGY DIRECT PIPELINE CENTERLINE	PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
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**TENNESSEE GAS PIPELINE COMPANY, L.L.C.**  
**NORTHEAST ENERGY DIRECT PROJECT**  
**WRIGHT TO DRACUT QUAD MAPBOOK**  
**SEGMENT J**  
 HILLSBOROUGH COUNTY  
 NEW HAMPSHIRE

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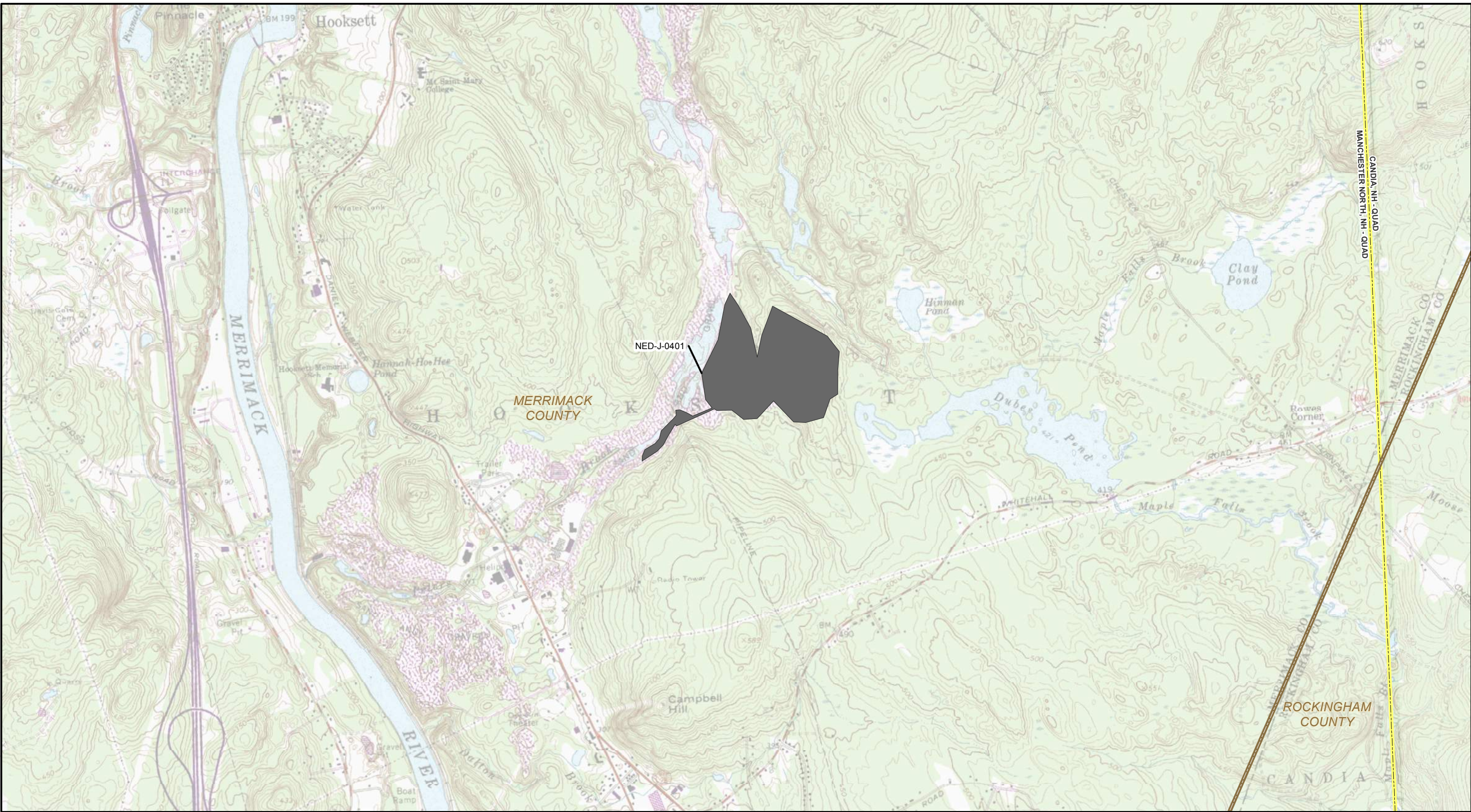
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**Tennessee Gas Pipeline Company, L.L.C.**  
 a Kinder Morgan company


**Hatch Mott MacDonald**  
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 Holyoke, MA 01040  
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<b>REVISION:</b>	2
<b>DESC:</b>	ISSUED FOR FERC
<b>PAGE:</b>	55 OF 56





1 MILE POST	PROPOSED NORTHEAST ENERGY DIRECT PIPELINE CENTERLINE	PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
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MAP COMPILED USING THE MOST CURRENT QUADRANGLE MAP AVAILABLE FROM THE U.S. GEOLOGICAL SURVEY (USGS).

## TENNESSEE GAS PIPELINE COMPANY, L.L.C.

### NORTHEAST ENERGY DIRECT PROJECT

#### WRIGHT TO DRACUT QUAD MAPBOOK

##### SEGMENT J

MERRIMACK COUNTY  
NEW HAMPSHIRE

ABSOLUTE SCALE:  
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<b>DESC:</b>	ISSUED FOR FERC
<b>PAGE:</b>	56 OF 56



DWG. NO.	DWG. TITLE
	<b><u>SEGMENT L - MARITIMES DELIVERY LINE</u></b>
PAGE 1	QUAD SHEET
	<b><u>SEGMENT N - LYNNFIELD LATERAL</u></b>
PAGE 1	QUAD SHEET
PAGE 2	QUAD SHEET
PAGE 3	QUAD SHEET
PAGE 4	QUAD SHEET
	<b><u>SEGMENT O - PEABODY LATERAL</u></b>
PAGE 1	QUAD SHEET

DWG. NO.	DWG. TITLE
	<b><u>SEGMENT P - HAVERHILL LATERAL</u></b>
PAGE 1	QUAD SHEET
PAGE 2	QUAD SHEET
PAGE 3	QUAD SHEET
	<b><u>SEGMENT Q - FITCHBURG LATERAL EXTENSION</u></b>
PAGE 1	QUAD SHEET
PAGE 2	QUAD SHEET
PAGE 3	QUAD SHEET
PAGE 4	QUAD SHEET
PAGE 5	QUAD SHEET
PAGE 6	WAREYARD QUAD SHEET
	<b><u>SEGMENT S - 300 LINE CT LOOP</u></b>
PAGE 1	QUAD SHEET
PAGE 2	QUAD SHEET
PAGE 3	QUAD SHEET
PAGE 4	QUAD SHEET
PAGE 5	QUAD SHEET

TENNESSEE GAS PIPELINE COMPANY, L.L.C.  
NORTHEAST ENERGY DIRECT PROJECT  
MARKET PATH COMPONENT  
LATERALS & LOOP LINES

COVER SHEET



Tennessee Gas Pipeline  
Company, L.L.C.  
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MacDonald

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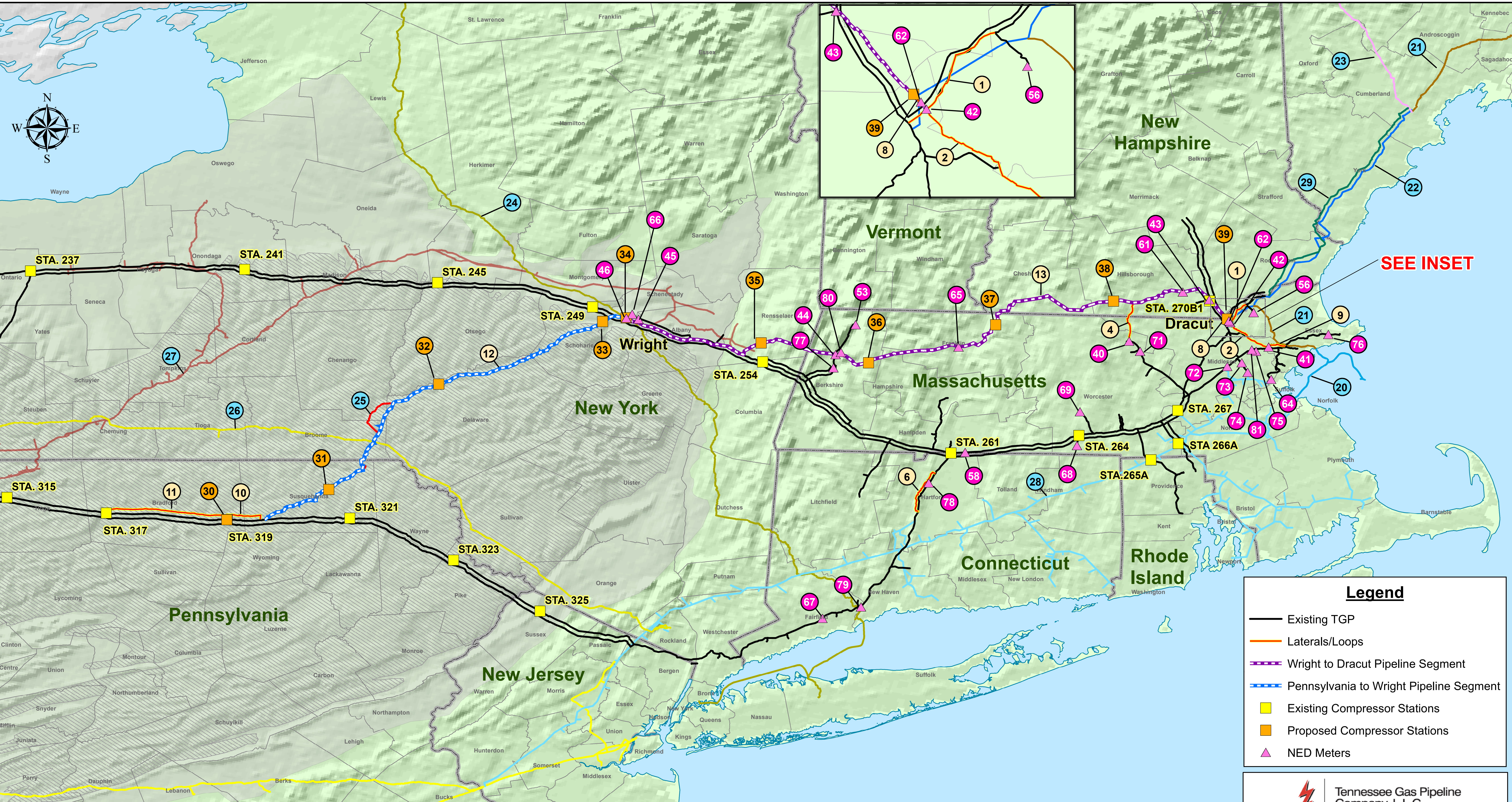
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SEE INSET

### Legend

- Existing TGP
- Laterals/Loops
- Wright to Dracut Pipeline Segment
- Pennsylvania to Wright Pipeline Segment
- Existing Compressor Stations
- Proposed Compressor Stations
- NED Meters

Tennessee Gas Pipeline Company, L.L.C.  
a Kinder Morgan company

## Northeast Energy Direct (NED) Project Location Map

Created By: BWR  
Date: 10/12/2015  
Oct\_2015\_FINAL\_FERC\_Filing

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NED Pipeline	MAOP	MOP	State	Dia	Length (mi)
1 Haverhill Lateral	800	750	MA/NH	20"	9.27
2 Lynnfield Lateral	1460	1460	MA	24"	14.28
4 Fitchburg Lateral Extension	1460	1460	MA/NH	12"	13.97
6 300 Line CT Loop	800	719	CT	24"	14.80
8 Maritimes Delivery Line	1460	1460	MA	30"	0.75
9 Peabody Lateral	1460	730	MA	24"	5.32
10 Loop 319-3	1170	1170	PA	36"	9.96
11 Loop 317-3	1170	1170	PA	36"	30.98
12 Pennsylvania to Wright Pipeline Segment	1460*	1460*	PA/NY	30"	132.55
13 Wright to Dracut Pipeline Segment	1460	1460	NY/MA/NH	30"	187.78

\*MAOP/MOP between Supply Path Tail Station & Market Path Head Station is 1600  
\*MOP upstream of Supply Path Head Station is 1170

Pipelines
20 Hub Line
21 M&NP
22 M&NP & PNGTS Joint Facilities
23 PNGTS
24 Iroquois
25 Constitution
26 Millennium
27 Dominion
28 Algonquin
29 Granite State Gas Transmission

Metering & Regulation
40 Fitchburg Lateral Check
41 200-1 Check
42 Haverhill Check
43 200-2 Check
44 North Adams Check
45 NED/200 Line Bi-Directional OPP & Check
46 IGT-Constitution Bi-Directional Meter
53 North Adams Custody (20103)
56 Lawrence (20121)
58 Longmeadow
61 Merrimack
62 Maritimes
64 Everett
65 West Greenfield
66 NED Check
67 Easton (20853)
68 Southbridge (20108)
69 Spencer (20191)
71 Lunenburg (20949)
72 Lexington (20192)
73 Burlington (20341)
74 Arlington (20115)
75 Reading (20136)
76 Essex (20323)
77 Pittsfield (20102)
78 North Bloomfield (20453)
79 Milford (20425)
80 North Adams Regulator
81 Wilmington Regulator

Compressor Stations	Capacity (HP)
30 Station 319 Modifications	52,500 HP
31 Supply Path Head Station	52,500 HP
32 Supply Path Mid Station	50,500 HP
33 Supply Path Tail Station	50,500 HP
34 Market Path Head Station	20,600 HP
35 Market Path Mid Station 1	41,000 HP
36 Market Path Mid Station 2	41,000 HP
37 Market Path Mid Station 3	41,000 HP
38 Market Path Mid Station 4	41,000 HP
39 Market Path Tail Station	23,000 HP



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1 MILE POST	PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
PROPOSED NORTHEAST ENERGY DIRECT HAVERHILL LATERAL - SEGMENT P CENTERLINE	MUNICIPAL BOUNDARY
PROPOSED NORTHEAST ENERGY DIRECT PIPELINE CENTERLINE	COUNTY BOUNDARY
PROPOSED ACCESS ROAD* NED: Proposed Access Road	STATE BOUNDARY
EXISTING TGP PIPELINE	USGS QUADRANGLE BOUNDARY

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## TENNESSEE GAS PIPELINE COMPANY, L.L.C. NORTHEAST ENERGY DIRECT PROJECT HAVERHILL LATERAL QUAD MAPBOOK SEGMENT P

ROCKINGHAM COUNTY, NEW HAMPSHIRE AND ESSEX COUNTY  
MASSACHUSETTS

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ABSOLUTE SCALE:  
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REFERENCE SCALE:  
1 IN = 2,000 FEET

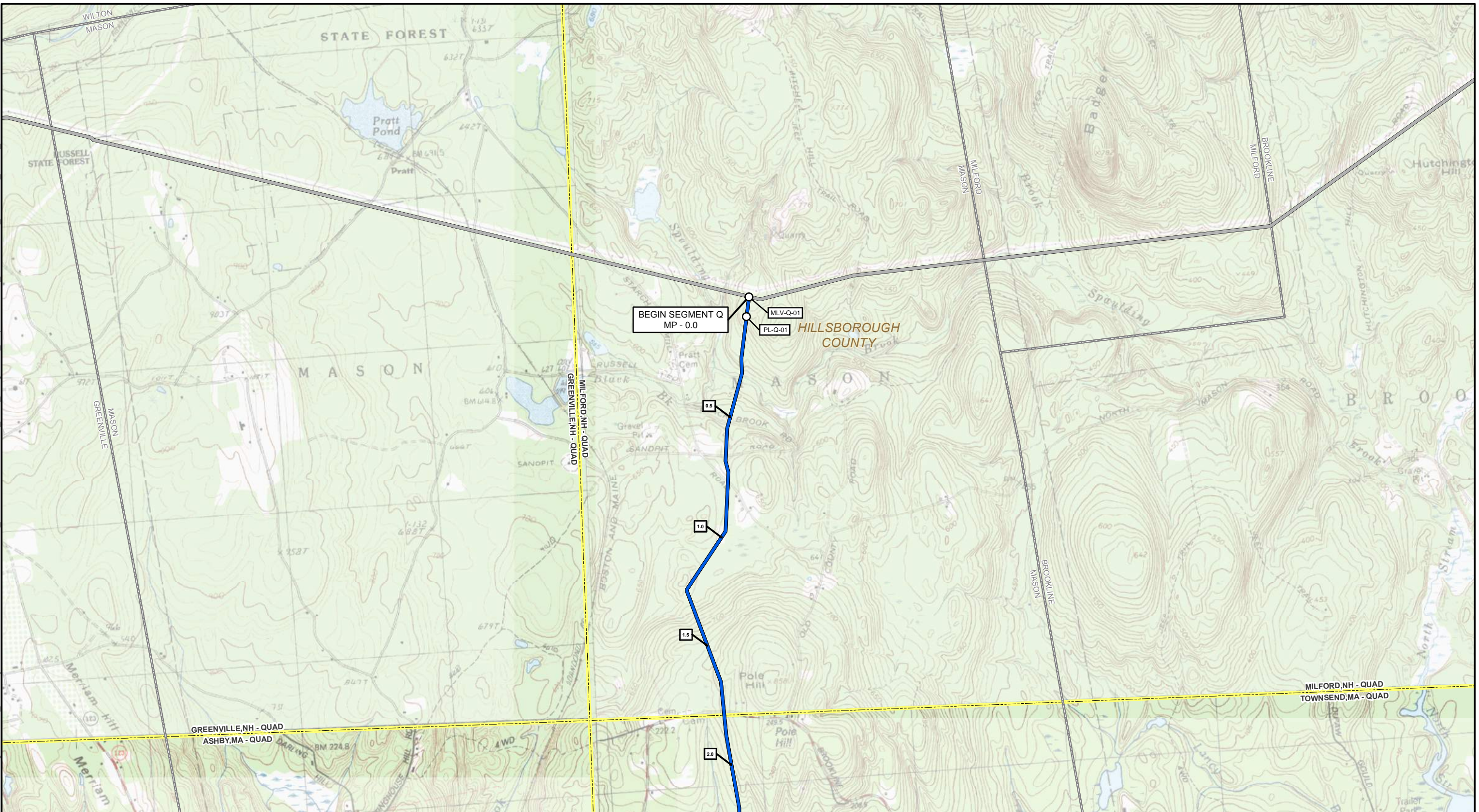
Tennessee Gas Pipeline  
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<b>PAGE:</b>	3 OF 3





	MILE POST		PROPOSED CONTRACTOR YARD NED: Proposed Contractor Yard
	PROPOSED NORTHEAST ENERGY DIRECT FITCBURG LATERAL LINE - SEGMENT Q CENTERLINE		MUNICIPAL BOUNDARY
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## TENNESSEE GAS PIPELINE COMPANY, L.L.C. NORTHEAST ENERGY DIRECT PROJECT FITCBURG LATERAL QUAD MAPBOOK SEGMENT Q

HILLSBOROUGH COUNTY  
NEW HAMPSHIRE

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1:24,000

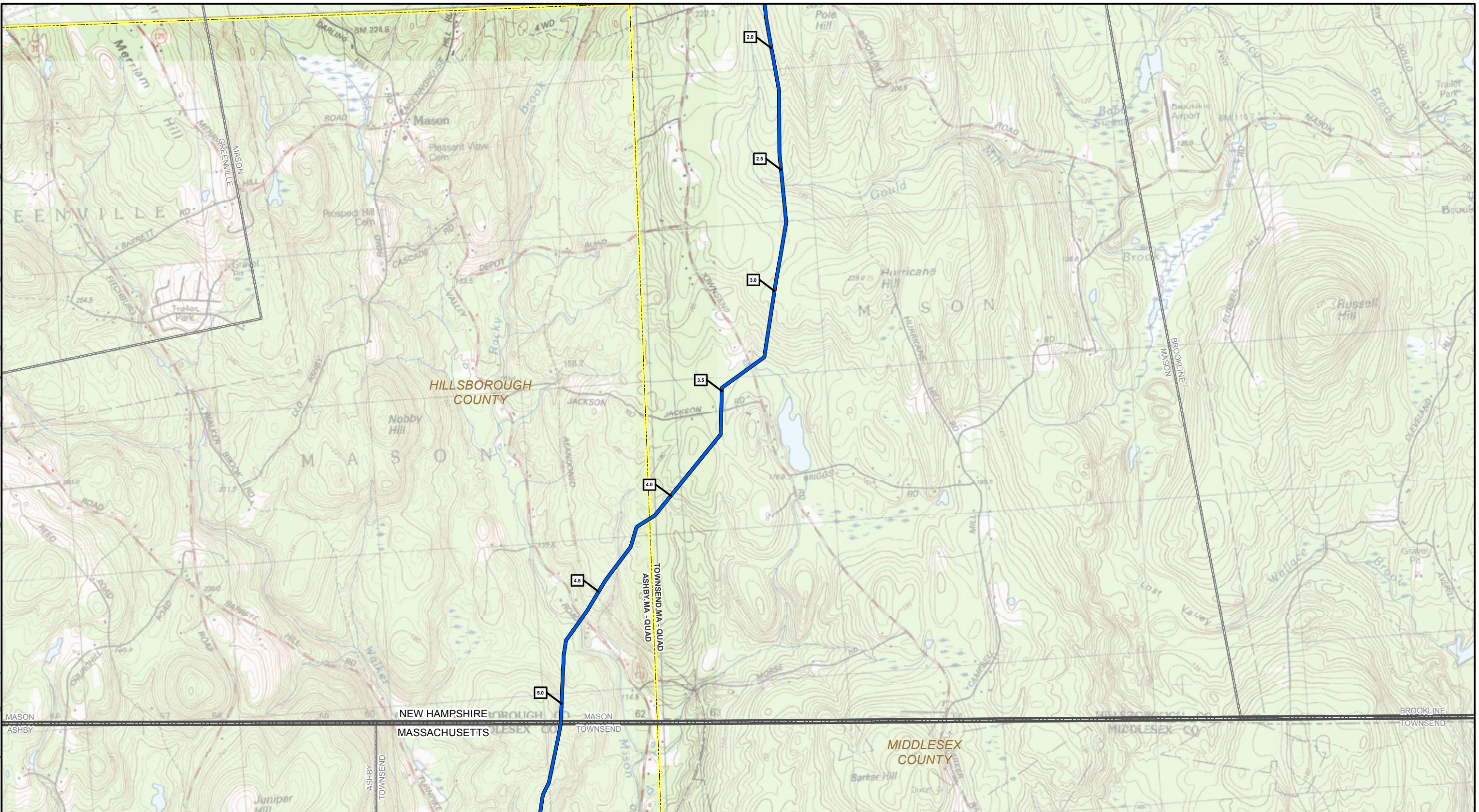
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## TENNESSEE GAS PIPELINE COMPANY, L.L.C. NORTHEAST ENERGY DIRECT PROJECT FITCHBURG LATERAL QUAD MAPBOOK SEGMENT Q

HILLSBOROUGH COUNTY, NEW HAMPSHIRE & MIDDLESEX COUNTY  
MASSACHUSETTS

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