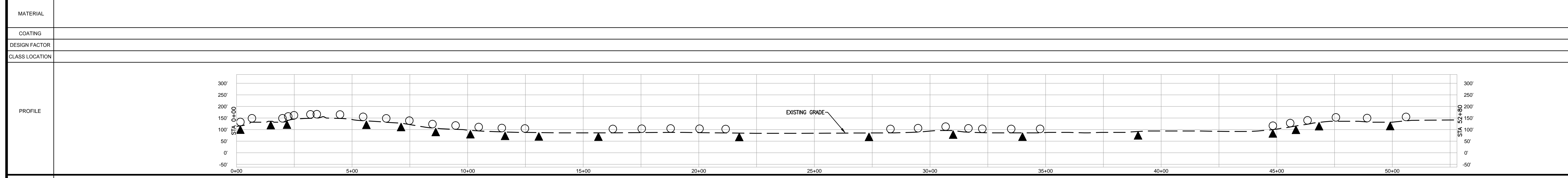
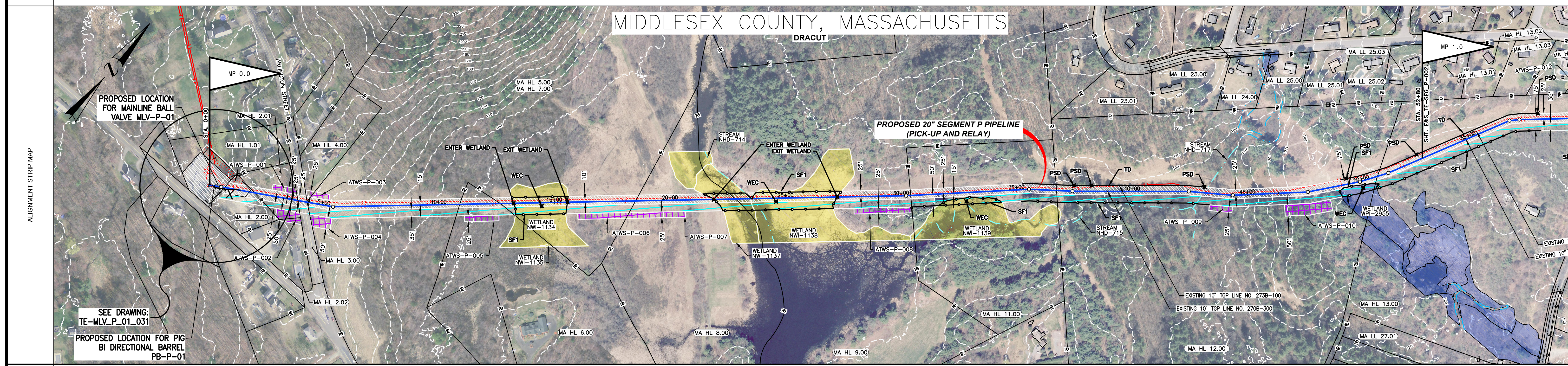


PROTECTION EASEMENT																												
LINE LIST	<table border="1"> <tr> <td>MA HL 1.00</td> <td>MA HL 2.00</td> <td>MA HL 2.01</td> <td>MA HL 3.00</td> <td>MA HL 5.00 MA HL 7.00</td> <td>MA HL 6.00</td> <td>MA HL 5.00 MA HL 7.00</td> <td>MA HL 8.00</td> <td>MA HL 9.00</td> <td>MA HL 11.00</td> <td>MA HL 12.00</td> <td>MA HL 13.00</td> </tr> <tr> <td>0+00</td> <td>0+65</td> <td>1+97</td> <td>3+87</td> <td>4+28</td> <td>10+90</td> <td>12+86</td> <td>14+86</td> <td>18+51</td> <td>21+90</td> <td>22+83</td> <td>30+41</td> <td>36+73</td> <td>42+70</td> <td>52+80</td> </tr> </table>	MA HL 1.00	MA HL 2.00	MA HL 2.01	MA HL 3.00	MA HL 5.00 MA HL 7.00	MA HL 6.00	MA HL 5.00 MA HL 7.00	MA HL 8.00	MA HL 9.00	MA HL 11.00	MA HL 12.00	MA HL 13.00	0+00	0+65	1+97	3+87	4+28	10+90	12+86	14+86	18+51	21+90	22+83	30+41	36+73	42+70	52+80
MA HL 1.00	MA HL 2.00	MA HL 2.01	MA HL 3.00	MA HL 5.00 MA HL 7.00	MA HL 6.00	MA HL 5.00 MA HL 7.00	MA HL 8.00	MA HL 9.00	MA HL 11.00	MA HL 12.00	MA HL 13.00																	
0+00	0+65	1+97	3+87	4+28	10+90	12+86	14+86	18+51	21+90	22+83	30+41	36+73	42+70	52+80														
PIPELINE STATIONING	<p>0+00 BEGIN STA. 2851 PL = 13877 RL. 3+85 PROPERTY LINE. 1+97 PROPERTY LINE. 3+87 PROPERTY LINE. 4+28 E. OF ARINGTON ST. 4+28 PROPERTY LINE. 5+68 PL = 11158 RL. 10+90 PROPERTY LINE. 12+86 PROPERTY LINE. 13+23 EDGE OF WETLAND. 14+86 EDGE OF WETLAND. 18+51 PROPERTY LINE. 21+90 EDGE OF WETLAND. 22+83 PROPERTY LINE. 23+50 EDGE OF WETLAND. 23+50 E. OF STREAM. 27+93 EDGE OF WETLAND. 30+22 PL = 12511 RL. 30+41 PROPERTY LINE. 36+73 PROPERTY LINE. 37+92 PL = 22231 RL. 42+70 PROPERTY LINE. 43+10 E. OF STREAM. 44+38 PL = 22855 RL. 47+81 PL = 22306 RL. 50+70 PROPERTY LINE. 51+18 PL = 20901 RL.</p>																											

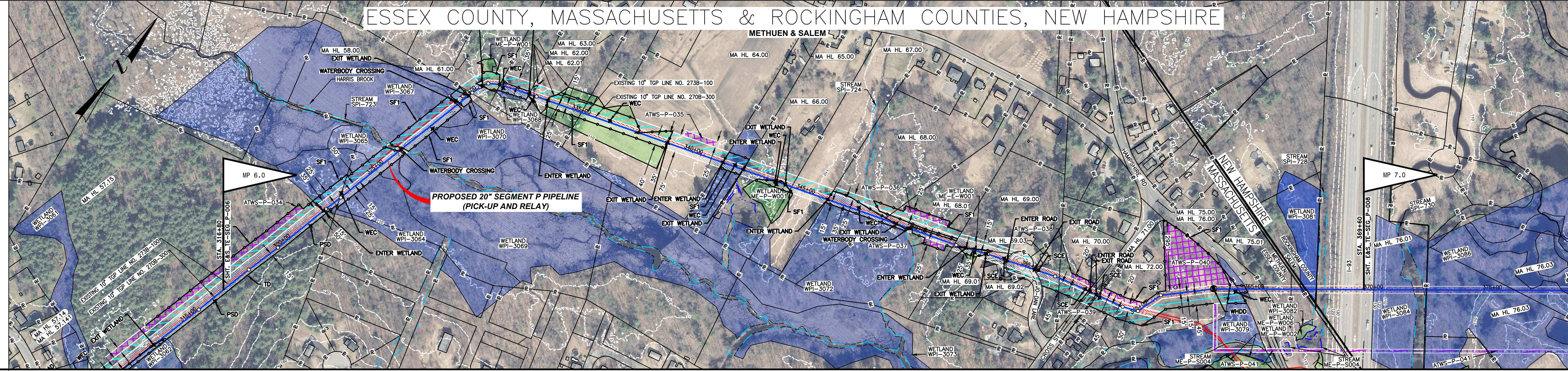


ENVIRONMENTAL	
SOILS	
PROFILE LEGEND	<p>SLOPE BREAKERS ○</p> <p>TRENCH PLUG ▲</p>

<p>NOTES</p> <ol style="list-style-type: none"> EXISTING TENNESSEE GAS PIPELINE PERMANENT EASEMENTS ARE NOT DEPICTED IN THEIR ENTIRETY. PUBLIC WETLANDS ARE OBTAINED FROM THE NATIONAL WETLAND INVENTORY (NWI) (AS DEFINED IN RESOURCE REPORT 2.3). PUBLIC STREAMS ARE OBTAINED FROM THE NATIONAL HYDROGRAPHY DATASET. (NHD). (AS DEFINED IN RESOURCE REPORT 2.2) PHOTO INTERPRETED WETLANDS AND STREAMS ARE A RESULT OF A HIGH RESOLUTION PHOTOGRAPHIC INTERPOLATION. DELINEATED WETLANDS AND STREAMS ARE THE RESULT OF AN ENVIRONMENTAL GROUND SURVEY. PROPERTY LINES ARE BASED ON TAX MAPS AND ARE NOT THE RESULT OF A FULL BOUNDARY SURVEY. TRENCH PLUGS SHALL BE INSTALLED AT ALL ROAD CROSSINGS AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR. PERMANENT SLOPE BREAKERS SHOWN IN CULTIVATED AREAS AND LAWNS SHALL ONLY BE INSTALLED WITH THE LANDOWNER'S PERMISSION. 	<p>LEGEND</p> <table border="1"> <tr> <td>EXISTING PERMANENT EASEMENT</td> <td>PA HG3 400.00</td> <td>LINE LIST NUMBER</td> </tr> <tr> <td>PROPOSED PERMANENT EASEMENT</td> <td>—R—</td> <td>PROPERTY LINE</td> </tr> <tr> <td>TEMPORARY WORKSPACE</td> <td>—M—</td> <td>MUNICIPAL LINE</td> </tr> <tr> <td>ADDITIONAL TEMPORARY WORKSPACE (ATWS)</td> <td>—W—</td> <td>WETLAND (PUBLIC)</td> </tr> <tr> <td>POTENTIAL STAGING AREA</td> <td>—S—</td> <td>WETLAND (PHOTO INTERPRETED)</td> </tr> <tr> <td>PROPOSED PIPELINE</td> <td>—P—</td> <td>WETLAND (DELINEATED)</td> </tr> <tr> <td>EXISTING TENNESSEE GAS PIPELINE</td> <td>—T—</td> <td>STREAM (DELINEATED)</td> </tr> <tr> <td>EXISTING FOREIGN PIPELINE</td> <td>—F—</td> <td>STREAM (PHOTO INTERPRETED)</td> </tr> <tr> <td>OVERHEAD POWER LINE</td> <td>—O—</td> <td>STREAM (PUBLIC)</td> </tr> <tr> <td>EXISTING FIBER OPTIC LINE</td> <td>—X—</td> <td>ACCESS ROAD</td> </tr> <tr> <td></td> <td></td> <td>FENCE LINE</td> </tr> </table>	EXISTING PERMANENT EASEMENT	PA HG3 400.00	LINE LIST NUMBER	PROPOSED PERMANENT EASEMENT	—R—	PROPERTY LINE	TEMPORARY WORKSPACE	—M—	MUNICIPAL LINE	ADDITIONAL TEMPORARY WORKSPACE (ATWS)	—W—	WETLAND (PUBLIC)	POTENTIAL STAGING AREA	—S—	WETLAND (PHOTO INTERPRETED)	PROPOSED PIPELINE	—P—	WETLAND (DELINEATED)	EXISTING TENNESSEE GAS PIPELINE	—T—	STREAM (DELINEATED)	EXISTING FOREIGN PIPELINE	—F—	STREAM (PHOTO INTERPRETED)	OVERHEAD POWER LINE	—O—	STREAM (PUBLIC)	EXISTING FIBER OPTIC LINE	—X—	ACCESS ROAD			FENCE LINE	<p>REFERENCE DRAWINGS</p> <p>TYPICALS</p>	<p>REVISIONS</p> <table border="1"> <tr> <th>NO</th> <th>PROJ ID</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>CK</th> <th>APPR</th> </tr> <tr> <td>0</td> <td></td> <td>ISSUE FOR FERC</td> <td>11/2015</td> <td>HMM</td> <td>HMM</td> <td></td> </tr> </table>	NO	PROJ ID	DESCRIPTION	DATE	BY	CK	APPR	0		ISSUE FOR FERC	11/2015	HMM	HMM		<p>AREA: HMM</p> <p>DIVISION: HMM</p> <p>DRAFTER: HMM</p> <p>COORDINATOR: HMM</p> <p>DATE: 01-12-15</p> <p>DATE: 01-12-15</p>	<p>Tennessee Gas Pipeline Company, L.L.C.</p> <p>a Kinder Morgan company</p> <p>NORTHEAST ENERGY DIRECT PROJECT</p> <p>PROPOSED 20" PIPELINE</p> <p>SEGMENT P HAVERHILL LATERAL</p> <p>EROSION & SEDIMENT CONTROL PLAN</p> <p>ALIGNMENT SHEET</p> <p>MIDDLESEX COUNTY, MASSACHUSETTS</p> <p>DESIGN COORD: HMM</p> <p>PROJECT COORD: HMM</p> <p>OPER. APPR: HMM</p> <p>DATE: HMM</p> <p>SCALE: 1 = 200'</p> <p>PROJ. ID.: E&S_TE-SEG_P-001</p> <p>0</p>
		EXISTING PERMANENT EASEMENT	PA HG3 400.00	LINE LIST NUMBER																																																
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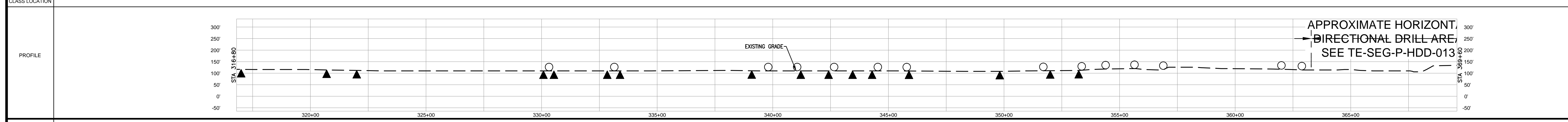
PROTECTION EASEMENT	LINE LIST	PIPELINE STATIONING
	316+80 MA HL 57.15	
	316+82 MA HL 58.00	
	316+84 MA HL 58.00	
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	316+88 MA HL 58.00	
	316+90 MA HL 58.00	
	316+92 MA HL 58.00	
	316+94 MA HL 58.00	
	316+96 MA HL 58.00	
	316+98 MA HL 58.00	
	317+00 MA HL 58.00	
	317+02 MA HL 58.00	
	317+04 MA HL 58.00	
	317+06 MA HL 58.00	
	317+08 MA HL 58.00	
	317+10 MA HL 58.00	
	317+12 MA HL 58.00	
	317+14 MA HL 58.00	
	317+16 MA HL 58.00	
	317+18 MA HL 58.00	
	317+20 MA HL 58.00	
	317+22 MA HL 58.00	
	317+24 MA HL 58.00	
	317+26 MA HL 58.00	
	317+28 MA HL 58.00	
	317+30 MA HL 58.00	
	317+32 MA HL 58.00	
	317+34 MA HL 58.00	
	317+36 MA HL 58.00	
	317+38 MA HL 58.00	
	317+40 MA HL 58.00	
	317+42 MA HL 58.00	
	317+44 MA HL 58.00	
	317+46 MA HL 58.00	
	317+48 MA HL 58.00	
	317+50 MA HL 58.00	
	317+52 MA HL 58.00	
	317+54 MA HL 58.00	
	317+56 MA HL 58.00	
	317+58 MA HL 58.00	
	317+60 MA HL 58.00	
	317+62 MA HL 58.00	
	317+64 MA HL 58.00	
	317+66 MA HL 58.00	
	317+68 MA HL 58.00	
	317+70 MA HL 58.00	
	317+72 MA HL 58.00	
	317+74 MA HL 58.00	
	317+76 MA HL 58.00	
	317+78 MA HL 58.00	
	317+80 MA HL 58.00	
	317+82 MA HL 58.00	
	317+84 MA HL 58.00	
	317+86 MA HL 58.00	
	317+88 MA HL 58.00	
	317+90 MA HL 58.00	
	317+92 MA HL 58.00	
	317+94 MA HL 58.00	
	317+96 MA HL 58.00	
	317+98 MA HL 58.00	
	318+00 MA HL 58.00	

ESSEX COUNTY, MASSACHUSETTS & ROCKINGHAM COUNTIES, NEW HAMPSHIRE



PROPOSED 20" SEGMENT P PIPELINE (PICK-UP AND RELAY)

MATERIAL	
COATING	
DESIGN FACTOR	
CLASS LOCATION	



APPROXIMATE HORIZONTAL DIRECTIONAL DRILL ARE SEE TE-SEG-P-HDD-013

ENVIRONMENTAL	
SOILS	

PROFILE LEGEND

SLOPE BREAKERS	○
TRENCH PLUG	▲

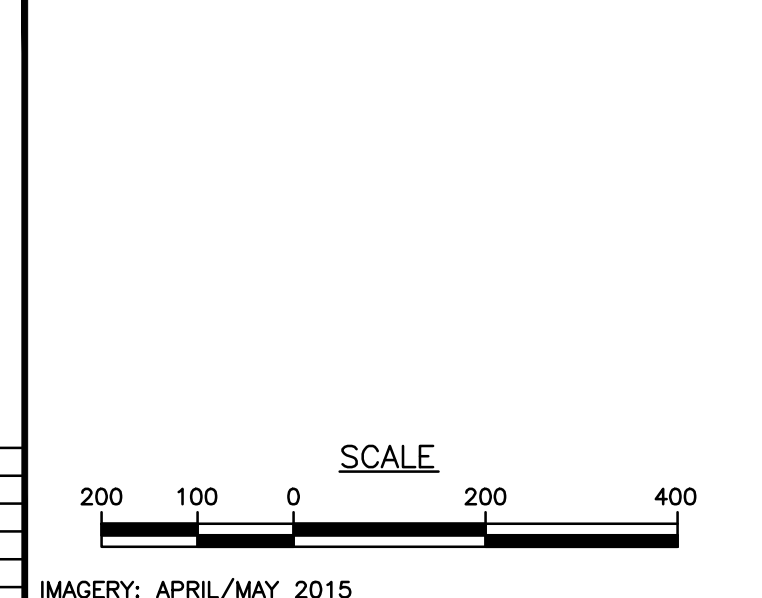
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LEGEND

EXISTING PERMANENT EASEMENT	PA HG3 400.00	LINE LIST NUMBER
PROPOSED PERMANENT EASEMENT	—R—	PROPERTY LINE
TEMPORARY WORKSPACE	—	MUNICIPAL LINE
ADDITIONAL TEMPORARY WORKSPACE (ATWS)	—	WETLAND (PUBLIC)
POTENTIAL STAGING AREA	—	WETLAND (PHOTO INTERPRETED)
PROPOSED PIPELINE	—	WETLAND (DELINEATED)
EXISTING TENNESSEE GAS PIPELINE	—	STREAM (DELINEATED)
EXISTING FOREIGN PIPELINE	—	STREAM (PHOTO INTERPRETED)
OVERHEAD POWER LINE	—	STREAM (PUBLIC)
EXISTING FIBER OPTIC LINE	—	ACCESS ROAD
	—	FENCE LINE

REFERENCE DRAWINGS

TYPICALS	
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REVISIONS

NO	PROJ ID	DESCRIPTION	DATE	BY	CK	APPR
0		ISSUE FOR FERC	11/2015	HMM	HMM	

AREA: DIV: DRAFTER: HMM DATE: 01-12-15
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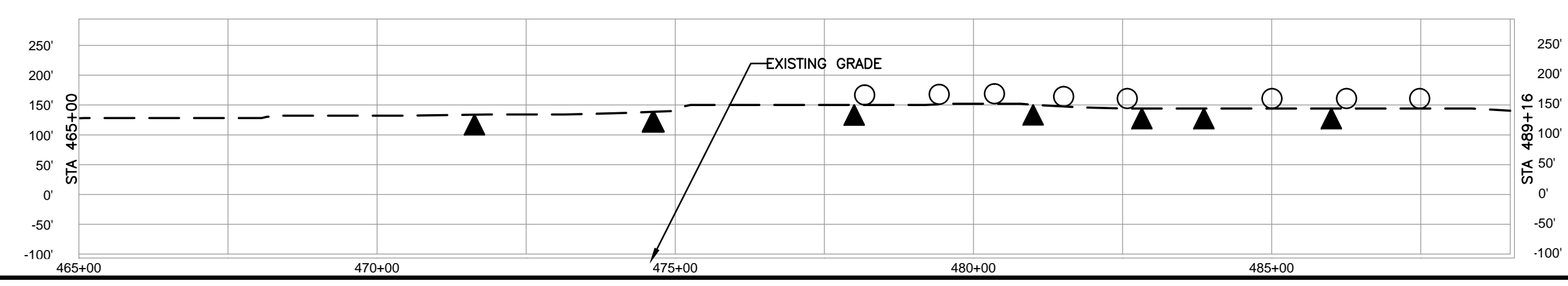
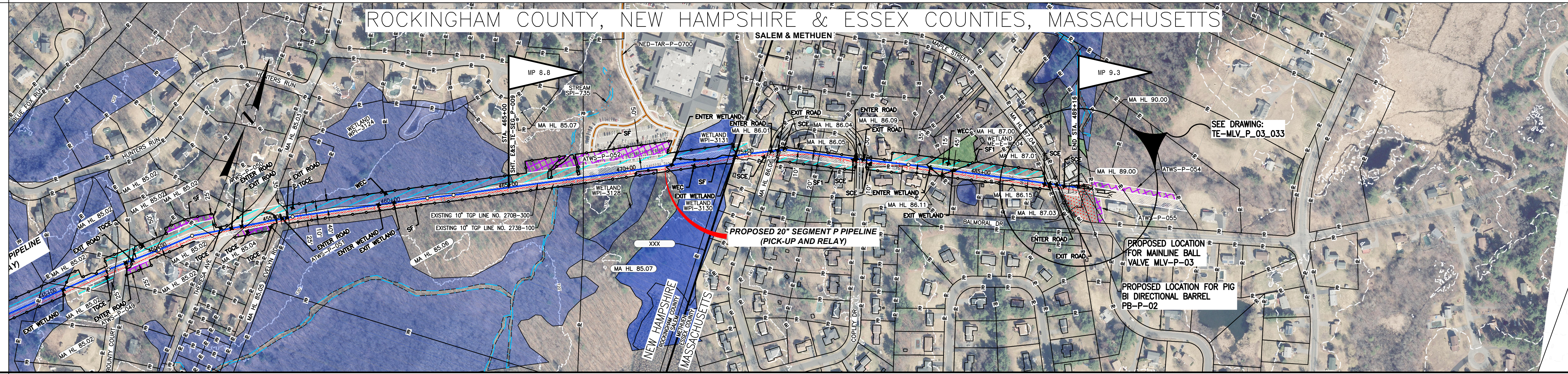
Tennessee Gas Pipeline Company, L.L.C.
 a Kinder Morgan company

NORTHEAST ENERGY DIRECT PROJECT
 PROPOSED 20" PIPELINE
 SEGMENT P HAVERRHILL LATERAL
 EROSION & SEDIMENT CONTROL PLAN
 ALIGNMENT SHEET
 ESSEX COUNTY MASSACHUSETTS & ROCKINGHAM COUNTY, NEW HAMPSHIRE

DESIGN COORD: DATE: SCALE: 1 = 200' PROJ. ID:
 PROJECT COORD: DATE: E&S_TE-SEG_P-007 0
 OPER. APPR: DATE:

PROTECTION EASEMENT	
LINE LIST	<p>MA HL 85.06 MA HL 85.05 MA HL 85.04 MA HL 85.03 MA HL 85.02</p> <p>MA HL 85.07 MA HL 85.08 MA HL 85.09 MA HL 85.10</p> <p>XXX</p> <p>MA HL 86.01</p> <p>MA HL 86.02</p> <p>MA HL 86.03</p> <p>MA HL 86.04</p> <p>MA HL 86.05</p> <p>MA HL 86.06</p> <p>MA HL 86.07</p> <p>MA HL 86.08</p> <p>MA HL 86.09</p> <p>MA HL 86.10</p> <p>MA HL 86.11</p> <p>MA HL 87.00</p> <p>MA HL 87.01</p> <p>MA HL 86.15</p> <p>MA HL 87.03</p> <p>MA HL 89.00</p>
PIPELINE STATIONING	<p>465+00</p> <p>468+16</p> <p>474+33</p> <p>474+62</p> <p>476+01</p> <p>476+54</p> <p>478+18</p> <p>479+71</p> <p>480+19</p> <p>482+13</p> <p>482+87</p> <p>483+82</p> <p>486+57</p> <p>487+01</p> <p>487+84</p> <p>488+37</p> <p>489+16</p>

ROCKINGHAM COUNTY, NEW HAMPSHIRE & ESSEX COUNTIES, MASSACHUSETTS



PROFILE LEGEND

SLOPE BREAKERS ○

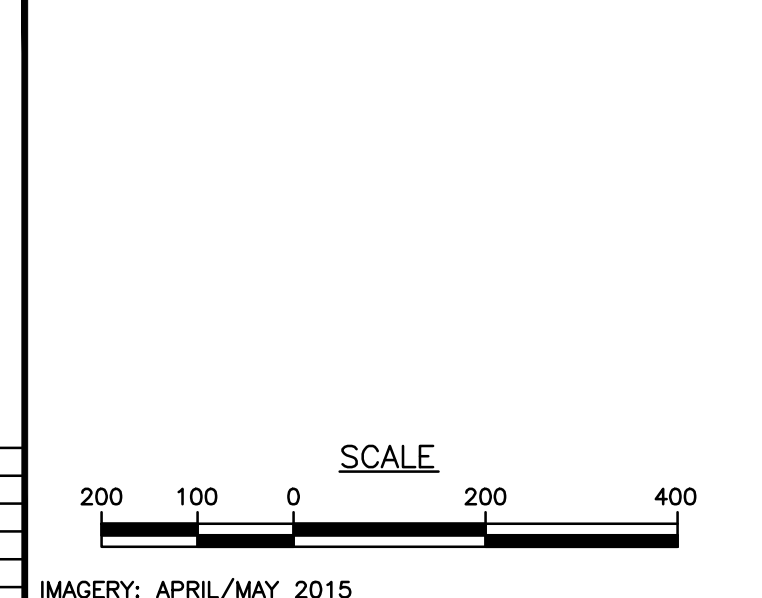
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	EXISTING TENNESSEE GAS PIPELINE	WETLAND (DELINEATED)
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	OVERHEAD POWER LINE	STREAM (PHOTO INTERPRETED)
	EXISTING FIBER OPTIC LINE	STREAM (PUBLIC)
		ACCESS ROAD
		FENCE LINE

REFERENCE DRAWINGS

TYPICALS



REVISIONS

NO	PROJ ID	DESCRIPTION	DATE	BY	CK	APPR
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AREA: _____ DIV: _____

DRAFTER: HMM DATE: 01-12-15

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COORD: _____

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ROCKINGHAM COUNTY NEW HAMPSHIRE & ESSEX COUNTY, MASSACHUSETTS

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OPER. APPR: _____ DATE: _____

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