PROTECTION EASEMENT

LINE LIST

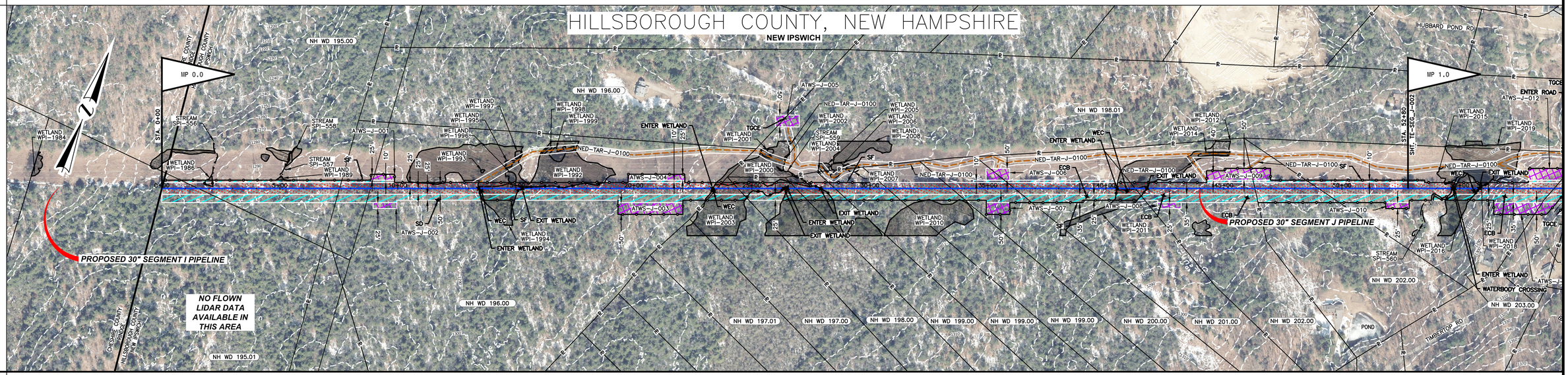
NH WD 195.00 | NH WD 196.00 | NH WD 197.00 | NH WD 198.00 | NH WD 199.00 | NH WD 199.00 | NH WD 200.00 | NH WD 201.00 | NH WD 202.00 | NH WD 202.00 | NH WD 203.00

00+00 | 03+33 | 18+02 | 18+90 | 21+35 | 23+01 | 25+22 | 27+94 | 30+61 | 35+73 | 40+81 | 43+50 | 52+80

PIPELINE STATIONING

00+00 BEGIN STA. | 03+33 PROPERTY LINE | 18+02 PROPERTY LINE | 18+90 PROPERTY LINE | 21+04 ENTER WETLAND NWI-543 | 21+35 PROPERTY LINE | 23+01 PROPERTY LINE | 23+27 EXIT WETLAND NWI-543 | 25+22 PROPERTY LINE | 25+51 ENTER WETLAND NWI-543 | 27+15 EXIT WETLAND NWI-543 | 27+94 PROPERTY LINE | 30+61 PROPERTY LINE | 35+73 PROPERTY LINE | 40+81 PROPERTY LINE | 43+50 PROPERTY LINE | 49+47 ENTER WETLAND NWI-544 | 50+30 EXIT WETLAND NWI-544

ALIGNMENT STRIP MAP



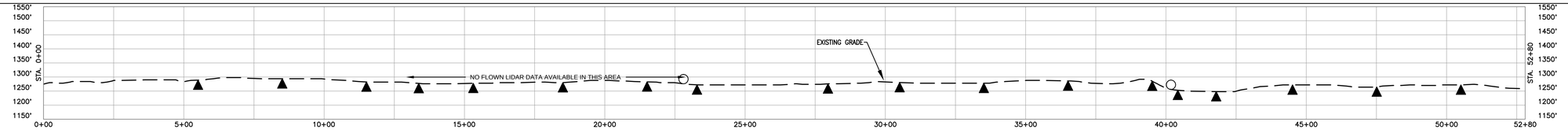
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

NOTES

1. EXISTING TENNESSEE GAS PIPELINE PERMANENT EASEMENTS ARE NOT DEPICTED IN THEIR ENTIRETY.
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LEGEND

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

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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

AREA:	DIV.:
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DRAFT. COORD: HMM	DATE: 01-12-15
DESIGN COORD:	DATE:
PROJECT COORD:	DATE:
OPER. APPR:	DATE:

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

SCALE: 1 = 200' | PROJ. ID.:

E&S_TE-SEG_J-001 | 0

11/5/2015 3:53 PM SHAWL KEMP

PROTECTION EASEMENT

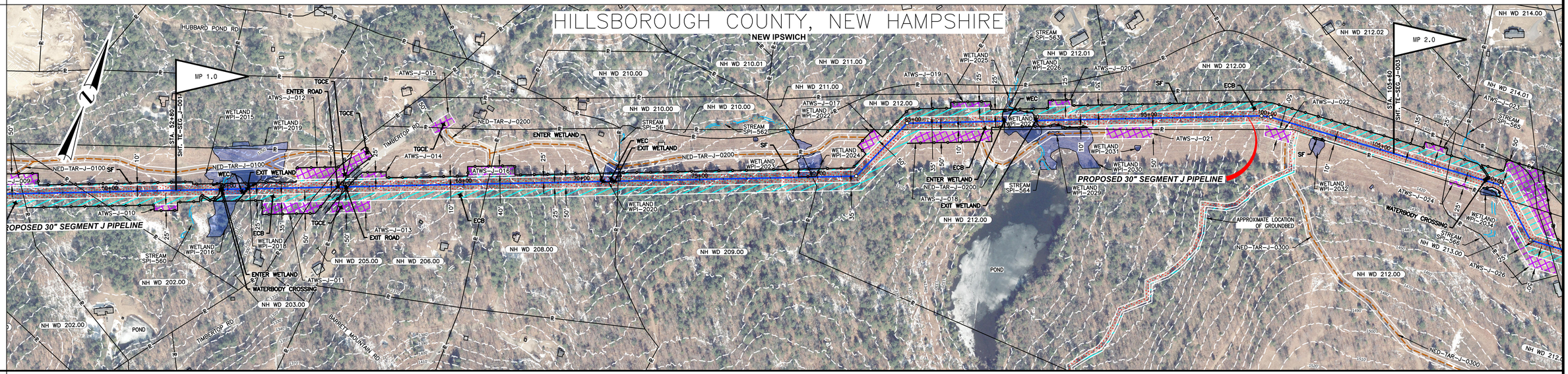
LINE LIST

52+80 | NH WD 203.00 | 53+48 | NH WD 205.00 | 54+37 | NH WD 206.00 | 60+50 | NH WD 208.00 | 66+03 | NH WD 209.00 | 72+52 | NH WD 210.00 | 73+72 | NH WD 210.00 | 74+17 | NH WD 211.00 | 74+83 | NH WD 212.00 | 102+49 | NH WD 213.00 | 105+55 | NH WD 213.00 | 106+80

PIPELINE STATIONING

53+48 PROPERTY LINE
54+39 E OF TIMBERTOP RD
54+37 PROPERTY LINE
60+50 PROPERTY LINE
66+03 PROPERTY LINE
72+83 P.I. = 46°00'00" LT.
73+52 PROPERTY LINE
73+72 PROPERTY LINE
74+17 PROPERTY LINE
74+83 PROPERTY LINE
83+54 ENTER WETLAND NWI-545
84+28 E OF STREAM NHD-399
85+01 EXIT WETLAND NWI-545
94+45 P.I. = 17°42'48" RT.
102+49 PROPERTY LINE
104+82 P.I. = 45°00'00" RT.
105+55 PROPERTY LINE

ALIGNMENT STRIP MAP



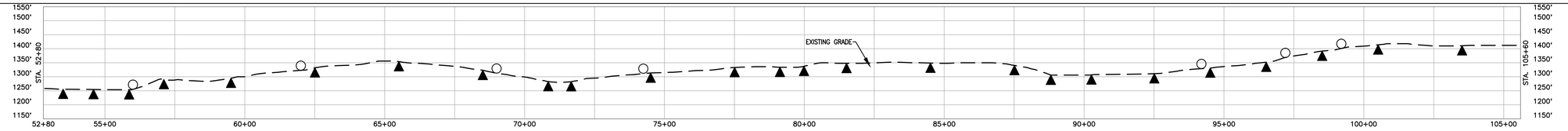
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

NOTES

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LEGEND

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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

- PROPOSED PIPELINE
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- EXISTING FIBER OPTIC LINE
- PA HG3 400.00 — LINE LIST NUMBER
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- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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DRAFT. COORD: HMM	DATE: 01-12-15

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-002	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM jdonohoe

PROTECTION EASEMENT

LINE LIST

105+60 | NH WD 213.00 | 108+29 | NH WD 214.01 | 108+81 | NH WD 215.00 | 115+83 | NH WD 217.00 | 135+86 | NH WD 218.00 | 152+48 | NH WD 219.00 | 158+40

PIPELINE STATIONING

107+47 P.I. = 45°00'00" LT.

108+29 PROPERTY LINE

108+81 PROPERTY LINE

109+39 P.I. = 17°54'4" LT.

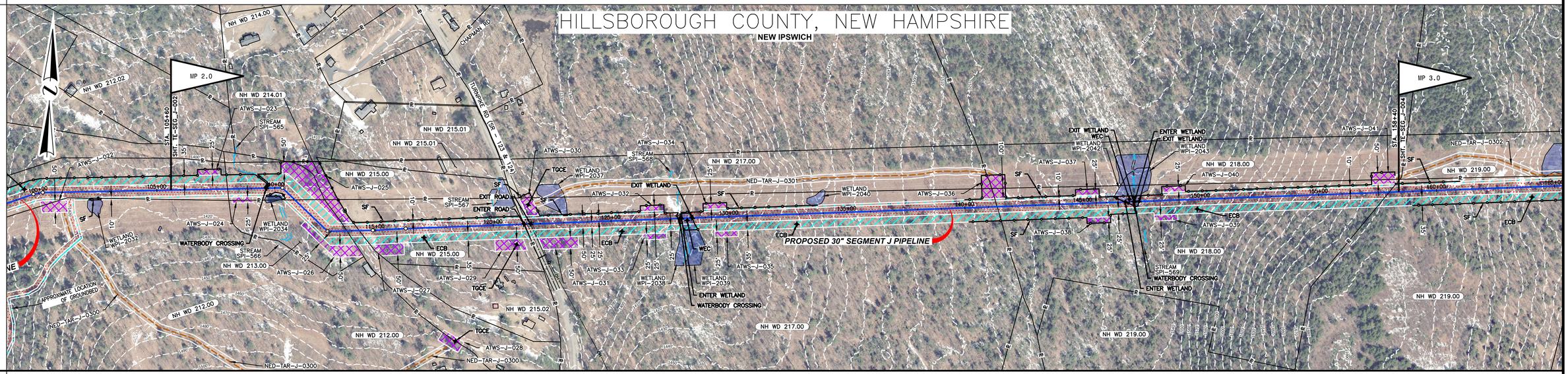
110+78 P.I. = 42°56'13" RT.

115+83 PROPERTY LINE
115+98 ℄ OF TURNPIKE RD (SR - 123 & 124)

135+86 PROPERTY LINE

152+48 PROPERTY LINE

ALIGNMENT STRIP MAP



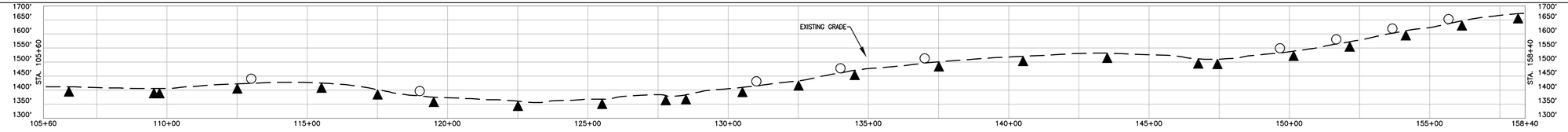
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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LEGEND

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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

- PROPOSED PIPELINE
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- WETLAND (DELINEATED)
- STREAM (DELINEATED)
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- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

SCALE: 1 = 200' | PROJ. ID.:

E&S_TE-SEG_J-003 | 0

11/5/2015 3:55 PM jdonofrio

PROTECTION EASEMENT

LINE LIST

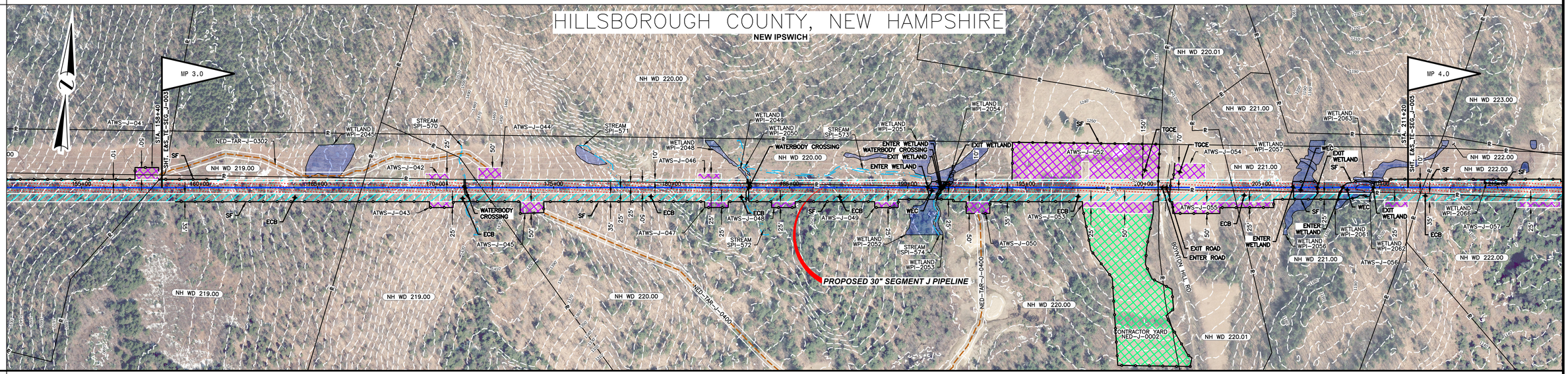
NH WD 219.00 | NH WD 219.00 | NH WD 220.00 | NH WD 220.00 | NH WD 220.01 | NH WD 221.00 | NH WD 222.00

158+40 | 161+37 | 166+43 | 189+74 | 195+11 | 198+27 | 206+32 | 211+20

PIPELINE STATIONING

161+37 PROPERTY LINE
166+43 PROPERTY LINE
189+74 PROPERTY LINE
195+11 PROPERTY LINE
195+47 E OF BOYNTON HILL RD
198+27 PROPERTY LINE
199+98 ENTER WETLAND NWI-546
200+70 EXIT WETLAND NWI-546
206+32 PROPERTY LINE

ALIGNMENT STRIP MAP



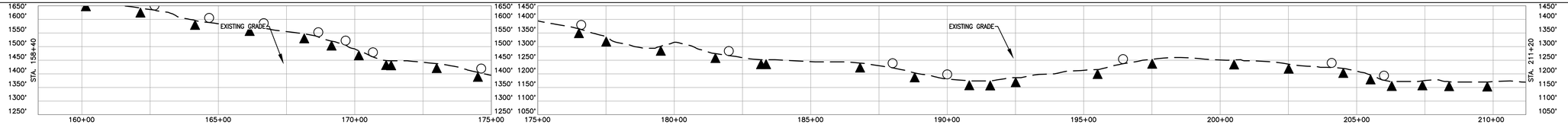
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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LEGEND

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- TEMPORARY WORKSPACE
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- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

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- FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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Tennessee Gas Pipeline Company, L.L.C.
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NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD: | DATE: | SCALE: 1 = 200' | PROJ. ID.:

PROJECT COORD: | DATE:

OPER. APPR: | DATE:

E&S_TE-SEG_J-004 | 0

11/5/2015 3:53 PM SHAWL KEMP

PROTECTION EASEMENT

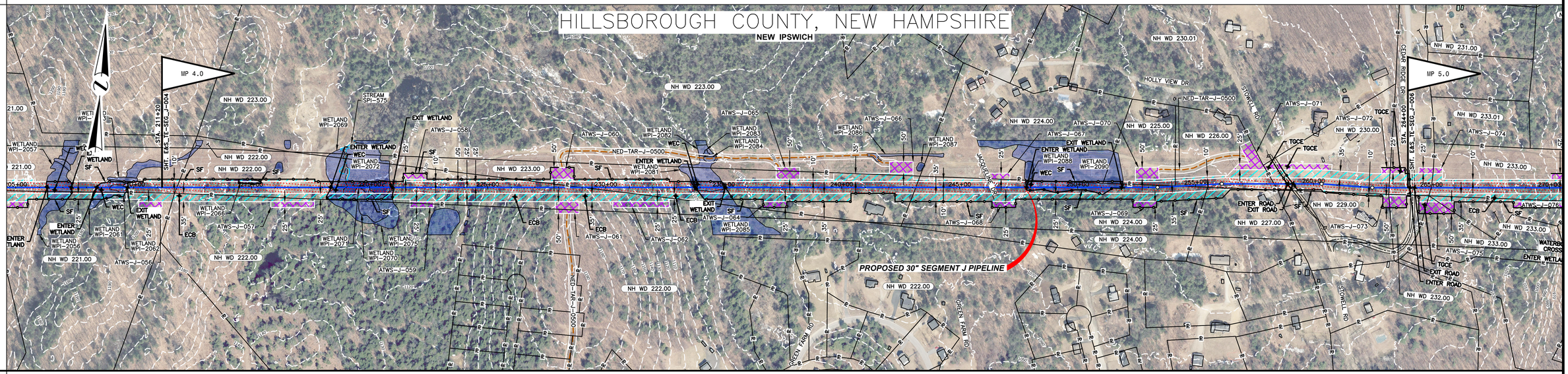
LINE LIST

211+20 | NH WD 222.00 | 223+57 | NH WD 223.00 | 237+63 | NH WD 224.00 | 249+99 | NH WD 227.00 | 250+41 | NH WD 226.00 | 252+89 | NH WD 230.00 | 257+78 | NH WD 231.00 | 259+56 | NH WD 233.00 | 264+00

PIPELINE STATIONING

212+48 ENTER WETLAND NWI-547
213+83 EXIT WETLAND NWI-547
223+57 PROPERTY LINE
227+41 ENTER WETLAND NWI-548
229+15 EXIT WETLAND NWI-548
237+63 PROPERTY LINE
240+75 ℄ OF JACQUELINE DR
249+99 PROPERTY LINE
250+41 PROPERTY LINE
251+81 P.I. ~ 44°31'15" LT.
251+81 P.I. ~ 44°24'20" RT.
252+89 PROPERTY LINE
253+61 ℄ OF STOWELL RD
254+84 P.I. ~ 28°57'53" RT.
255+16 P.I. ~ 28°50'56" LT.
257+78 PROPERTY LINE
258+78 ℄ OF CEDAR RIDGE DR
259+56 PROPERTY LINE

ALIGNMENT STRIP MAP



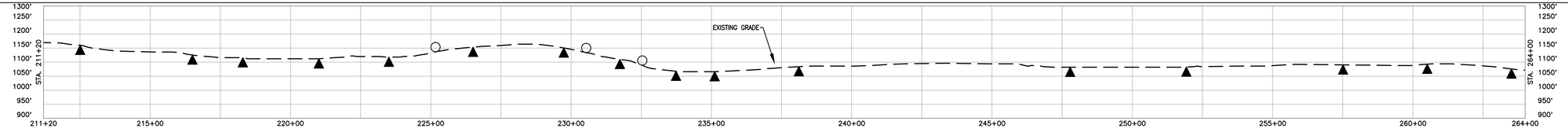
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS ○

TRENCH PLUG ▲

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LEGEND

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- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

- PROPOSED PIPELINE
- EXISTING TENNESSEE GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OH — OVERHEAD POWER LINE
- F — EXISTING FIBER OPTIC LINE

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- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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HILLSBOROUGH COUNTY, NEW HAMPSHIRE

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OPER. APPR: | DATE:

E&S_TE-SEG_J-005 | 0

11/5/2015 3:53 PM ZHANG, KEVIN

PROTECTION EASEMENT

LINE LIST

PIPELINE STATIONING

ALIGNMENT STRIP MAP

MATERIAL

COATING

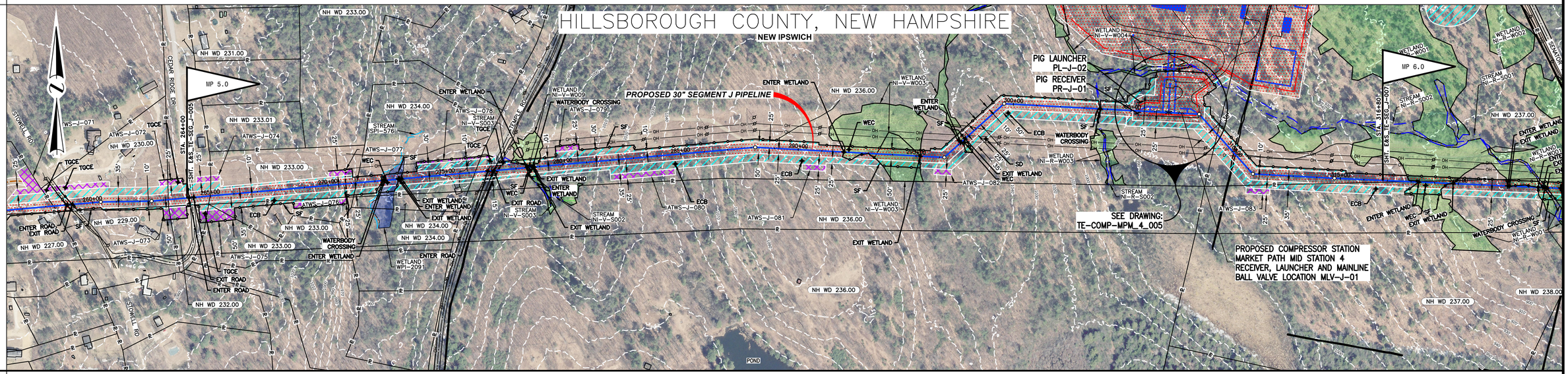
DESIGN FACTOR

CLASS LOCATION

PROFILE

ENVIRONMENTAL

SOILS



PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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0		ISSUE FOR FERC	11/2015	HMM	HMM	

AREA:	DIV.:
DRAFTER: HMM	DATE: 01-12-15
DRAFT. COORD: HMM	DATE: 01-12-15

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-006	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM STROUL, BROOKE A

PROTECTION EASEMENT

LINE LIST

NH WD 237.00 | NH WD 238.00 | NH WD 240.00 | NH WD 241.00 | NH WD 242.00 | NH WD 243.00 | NH WD 244.00 | NH WD 245.00 | NH WD 247.00

316+80 | 319+06 | 319+40 | 319+53 | 332+41 | 332+64 | 337+51 | 338+40 | 345+36 | 350+84 | 369+60

PIPELINE STATIONING

319+06 PROPERTY LINE
319+40 PROPERTY LINE
319+53 ℄ OF SENATOR TOBEY HWY -TOBEY HWY (SR -45)

PI#241 ~ PI#242

332+41 PROPERTY LINE
332+64 PROPERTY LINE

337+51 PROPERTY LINE
337+95 ℄ OF BLAKE RD
338+40 PROPERTY LINE

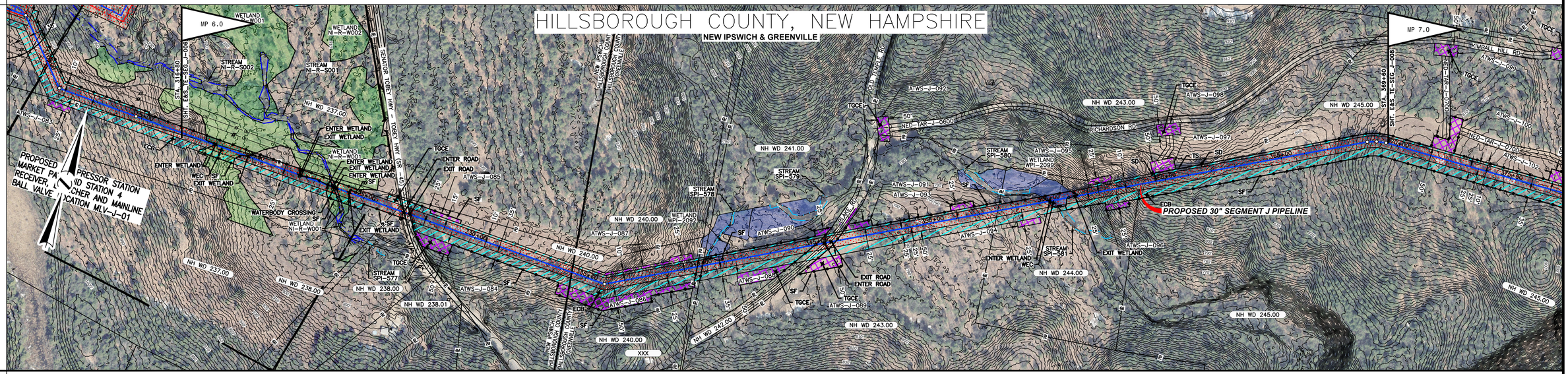
345+36 PROPERTY LINE

348+26 ℄ OF STREAM NHD-402

350+84 PROPERTY LINE

PI#242 ~ PI#243

ALIGNMENT STRIP MAP



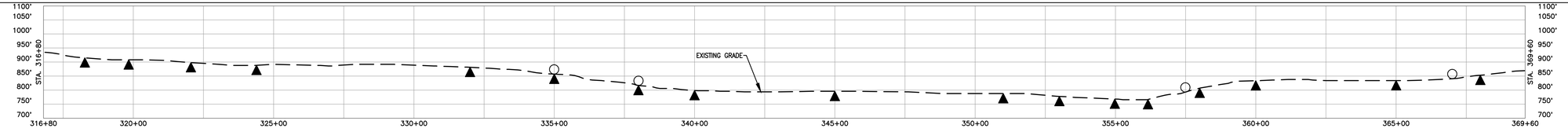
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

NOTES

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LEGEND

- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

LIMITS OF DISTURBANCE

- PROPOSED PIPELINE
- EXISTING TENNESSEE GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OVERHEAD POWER LINE
- EXISTING FIBER OPTIC LINE
- PA HG3 400.00 — LINE LIST NUMBER
- PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

SCALE: 1 = 200' | PROJ. ID.:

E&S_TE-SEG_J-007 | 0

11/5/2015 3:53 PM JSHAW, 4SHM

PROTECTION EASEMENT

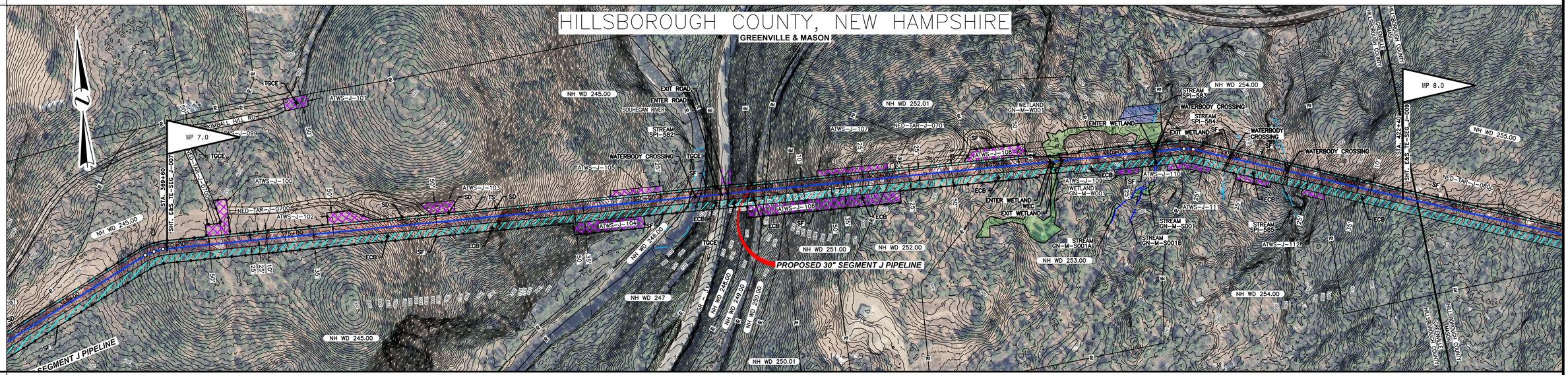
LINE LIST

NH WD 245.00
NH WD 247.00
NH WD 248.00
UNN
NH WD 248.00
NH WD 248.00
NH WD 250.00
NH WD 251.00
NH WD 252.00
NH WD 253.00
NH WD 253.00
NH WD 254.00
NH WD 255.00

PIPELINE STATIONING

369+60
383+94 PROPERTY LINE
384+54 ℄ OF STREAM WHD-403
384+77 PROPERTY LINE
385+50 PROPERTY LINE
386+00 ± OF SR - 31
387+01 PROPERTY LINE
387+75 PROPERTY LINE
388+66 PROPERTY LINE
393+10 PROPERTY LINE
397+88 PROPERTY LINE
401+40 PROPERTY LINE
401+91 PROPERTY LINE
404+95 PROPERTY LINE
PG&E 24" & 12" GAS
411+53 PROPERTY LINE
415+70 GREENFIELD TOWNSHIP, HILLSBOROUGH COUNTY
415+70 MASON TOWNSHIP, HILLSBOROUGH COUNTY
422+40

ALIGNMENT STRIP MAP



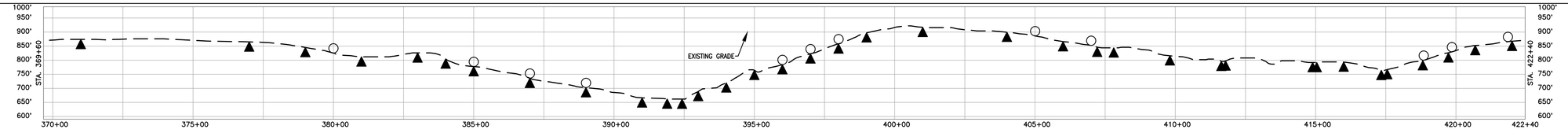
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA
- LIMITS OF DISTURBANCE
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- EXISTING TENNESSEE GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OVERHEAD POWER LINE
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- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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Tennessee Gas Pipeline Company, L.L.C.
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NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
WRIGHT TO DRACUT PIPELINE SEGMENT
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-008	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEVIN

PROTECTION EASEMENT

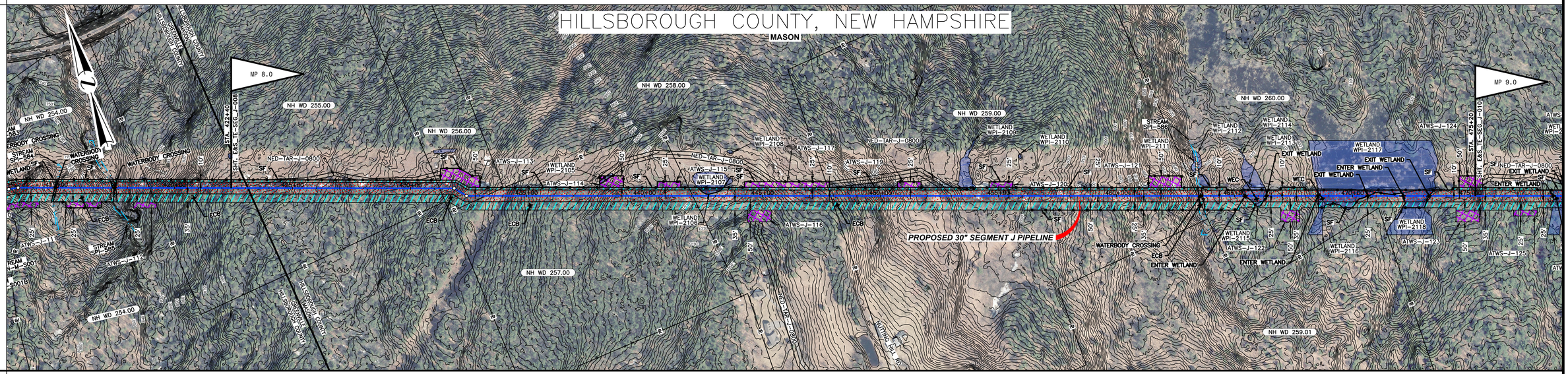
LINE LIST

422+40 | NH WD 255.00 | 423+83 | NH WD 256.00 | 426+54 | NH WD 258.00 | 426+55 | NH WD 257.00 | 434+39 | NH WD 258.00 | 440+29 | NH WD 259.00 | 455+80 | NH WD 260.00 | 475+20

PIPELINE STATIONING

423+83 PROPERTY LINE
426+54 PROPERTY LINE
426+55 PROPERTY LINE
434+39 PROPERTY LINE
440+29 PROPERTY LINE
455+80 PROPERTY LINE
462+28 ENTER WETLAND NWI-552
464+55 ENTER WETLAND NWI-553
466+10 EXIT WETLAND NWI-553
466+27 EXIT WETLAND NWI-553

ALIGNMENT STRIP MAP



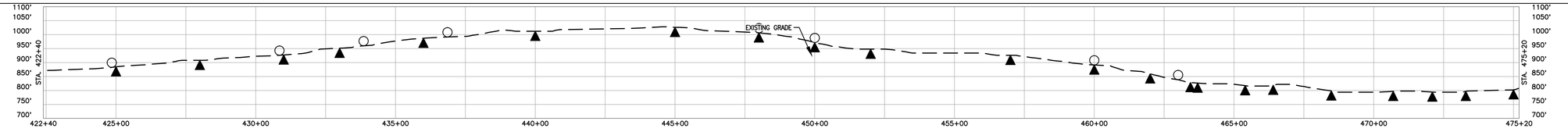
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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(LIMITS OF DISTURBANCE)

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- WETLAND (DELINEATED)
- STREAM (DELINEATED)
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- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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Tennessee Gas Pipeline Company, L.L.C.
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NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

SCALE: 1 = 200' | PROJ. ID.:

E&S_TE-SEG_J-009 | 0

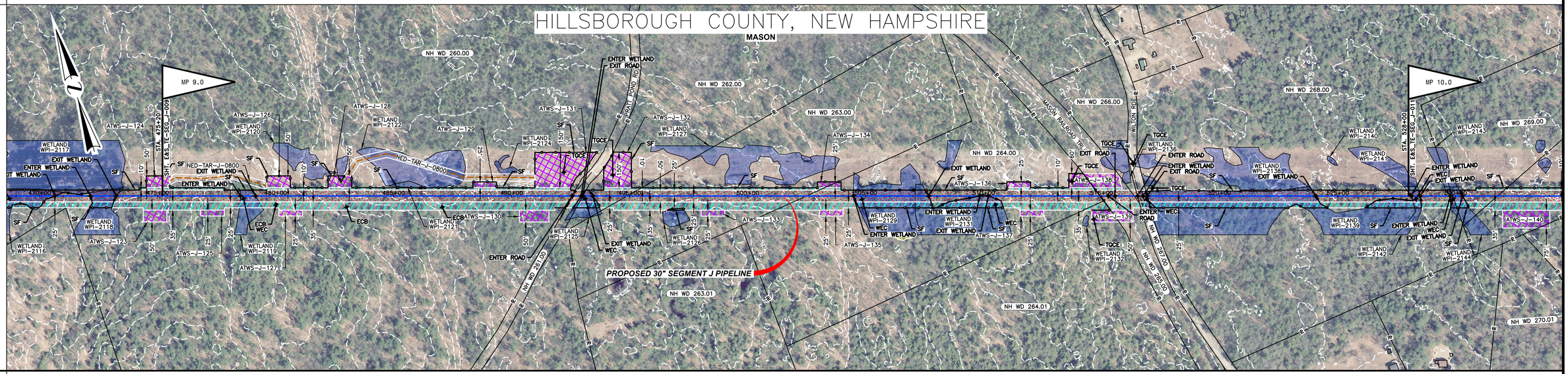
11/5/2015 3:53 PM 35mm, 45mm

PROTECTION EASEMENT

LINE LIST

PIPELINE STATIONING

ALIGNMENT STRIP MAP



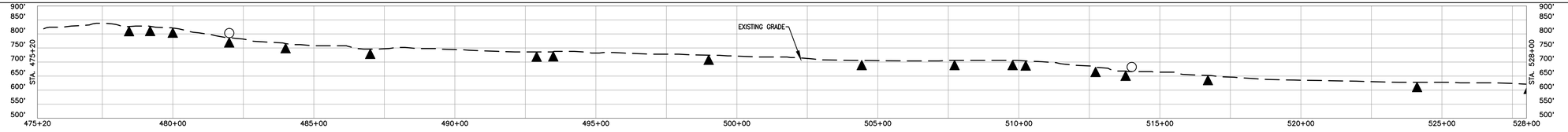
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

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LIMITS OF DISTURBANCE

- PROPOSED PIPELINE
- EXISTING TENNESSEE GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OH — OVERHEAD POWER LINE
- F — EXISTING FIBER OPTIC LINE
- PA HG3 400.00 — LINE LIST NUMBER
- R — PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

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REVISIONS

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ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
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OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEVIN

PROTECTION EASEMENT

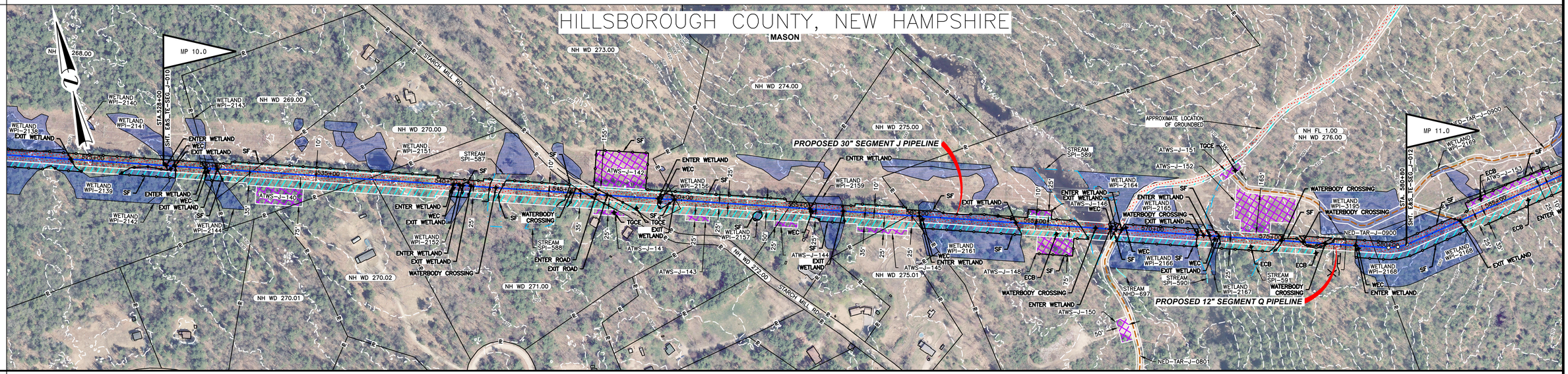
LINE LIST

528+00	NH WD 270.00	529+97	NH WD 271.00	537+80	NH WD 272.00	538+62	NH WD 273.00	542+04	NH WD 274.00	547+29	NH WD 275.00	551+98	NH FL 1.00 / NH WD 276.00	571+76	NH FL 2.00 / NH WD 277.00	580+80

PIPELINE STATIONING

529+97 PROPERTY LINE
537+80 PROPERTY LINE
538+33 ℄ OF STARCH MILL RD
538+62 PROPERTY LINE
542+04 PROPERTY LINE
547+29 PROPERTY LINE
551+98 PROPERTY LINE
559+75 ℄ OF STREAM NHD-404
564+90 ℄ OF STREAM NHD-405
571+76 PROPERTY LINE
572+81 P.I. = 27°50'10" LT.

ALIGNMENT STRIP MAP



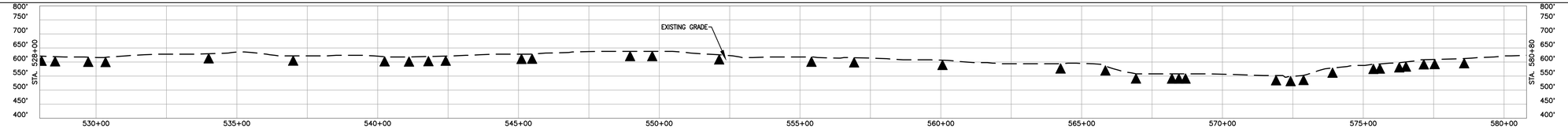
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

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REVISIONS

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ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

SCALE: 1 = 200'	PROJ. ID.:	E&S_TE-SEG_J-011	0

11/5/2015 3:53 PM SHAWL 45MI

PROTECTION EASEMENT

LINE LIST

NH FL 2.00
NH WD 277.00

NH FL 1.00
NH WD 276.00

NH WD 278.00

NH FL 3.00
NH WD 3.00

NH WD 280.00

580+80 | 581+79 | 584+98 | 593+71 | 627+17 | 633+60

PIPELINE STATIONING

581+79 PROPERTY LINE

584+98 PROPERTY LINE

593+71 PROPERTY LINE

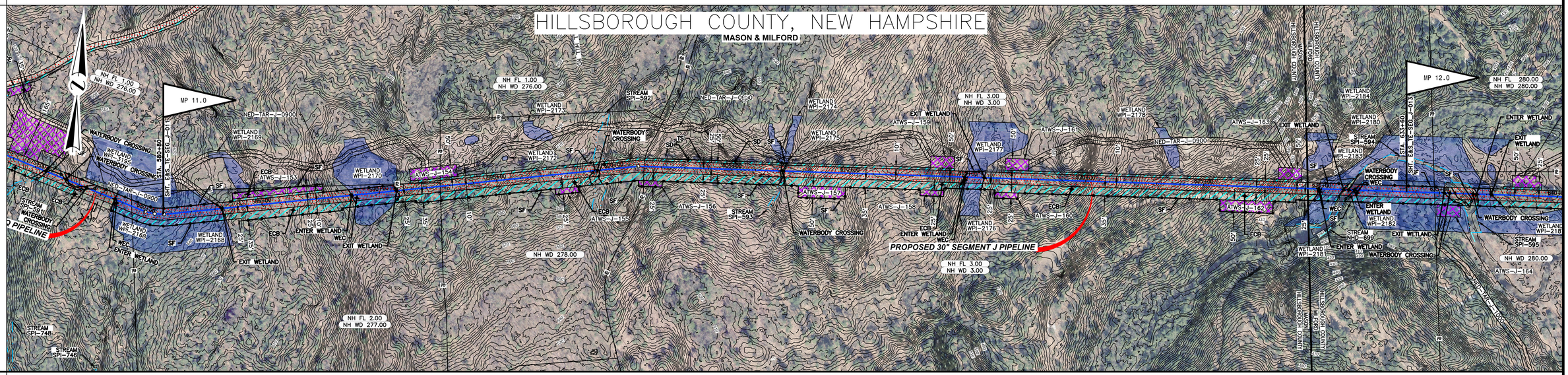
621+80 MASON TOWNSHIP, HILLSBOROUGH COUNTY
621+80 MILFORD TOWNSHIP, HILLSBOROUGH COUNTY

624+37 ℄ OF STREAM NHD-531

627+17 PROPERTY LINE
627+29 ℄ OF STREAM NHD-531

632+24 ENTER WETLAND NW-554

ALIGNMENT STRIP MAP



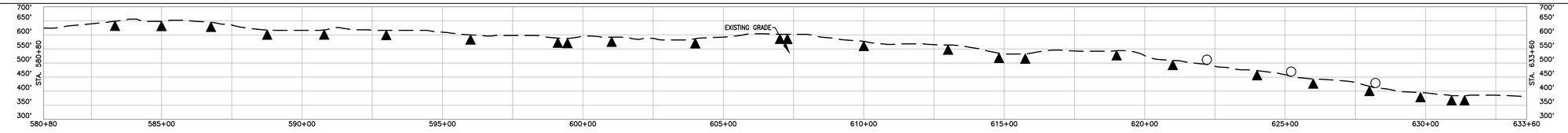
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

- PROPOSED PIPELINE
- EXISTING TENNESSEE GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OVERHEAD POWER LINE
- EXISTING FIBER OPTIC LINE
- PA HG3 400.00 — LINE LIST NUMBER
- PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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	
DRAFT. COORD:	HMM	DATE: 01-12-15	

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

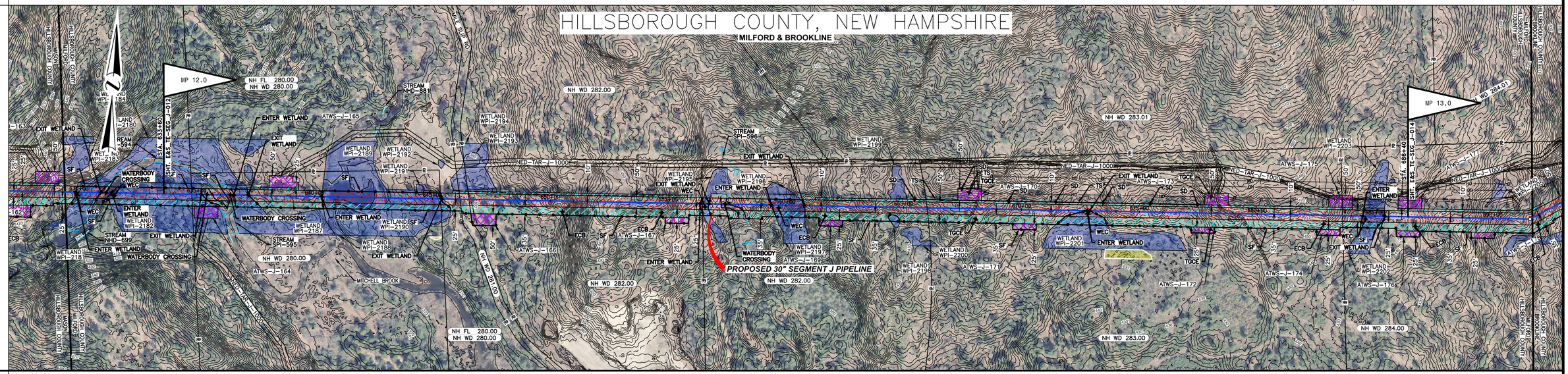
NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-012	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEVIN

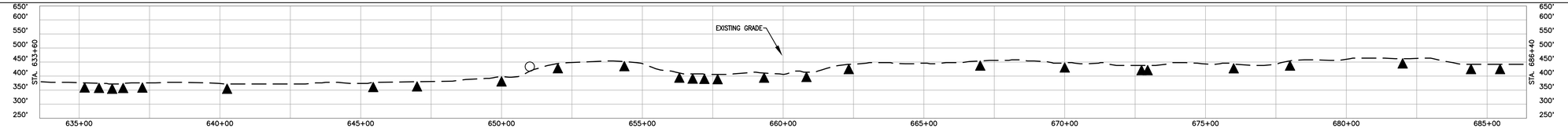
PROTECTION EASEMENT	
LINE LIST	633+60 — NH WD 280.00 — 637+73 — NH FL NH & WD 280.00 — 638+52 — NH WD 281.00 — 638+90 — NH WD 282.00 — 648+85 — NH WD 282.00 — 658+34 — NH WD 283.00 — 676+01 — NH WD 284.00 — 686+40
PIPELINE STATIONING	634+61 E OF STREAM NHD-407 / 634+83 EXIT WETLAND NWI-554; 637+73 PROPERTY LINE; 638+52 PROPERTY LINE; 638+90 PROPERTY LINE / 638+91 E OF MILE SLIP RD; 648+85 PROPERTY LINE; 658+34 PROPERTY LINE; 676+01 PROPERTY LINE; 683+90 P.I. = 28°05'56" LT / 684+59 MILFORD TOWNSHIP, HILLSBOROUGH COUNTY / 684+99 BROOKLINE TOWNSHIP, HILLSBOROUGH COUNTY

ALIGNMENT STRIP MAP



MATERIAL	
COATING	
DESIGN FACTOR	
CLASS LOCATION	

PROFILE



ENVIRONMENTAL	
SOILS	

PROFILE LEGEND

- SLOPE BREAKERS
- TRENCH PLUG

NOTES

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LEGEND

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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA
- LIMITS OF DISTURBANCE
- PROPOSED PIPELINE
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- P — PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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EROSION & SEDIMENT CONTROL PLAN
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HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-013	0
OPER. APPR:	DATE:		

11/5/2015 3:55 PM [USERNAME]

PROTECTION EASEMENT

LINE LIST

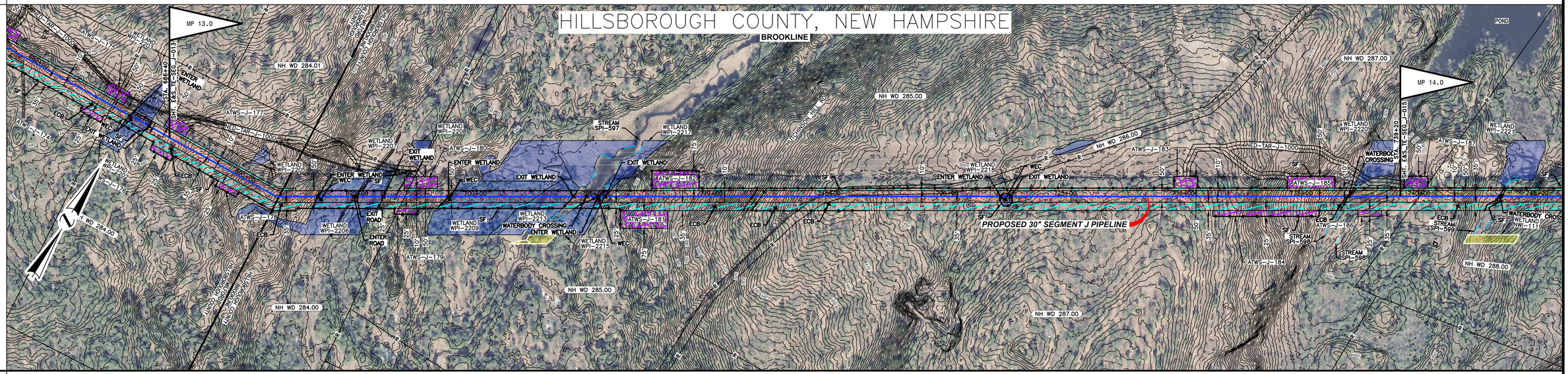
NH WD 284.00 | NH WD 285.00 | NH WD 286.00 | NH WD 287.00 | NH WD 288.00

686+40 | 689+41 | 707+84 | 713+80 | 732+46 | 739+20

PIPELINE STATIONING

689+41 PROPERTY LINE
695+97 ENTER WETLAND NWI-555
696+45 EXIT WETLAND NWI-555
696+99 ℄ OF STREAM NHD-408
698+57 EXIT WETLAND NWI-556
704+41 ℄ OF HUTCHINSON HILL RD
707+84 PROPERTY LINE
713+80 PROPERTY LINE
730+02 ℄ OF STREAM NHD-409
732+46 PROPERTY LINE
734+95 ENTER WETLAND NWI-557
737+64 EXIT WETLAND NWI-557

ALIGNMENT STRIP MAP



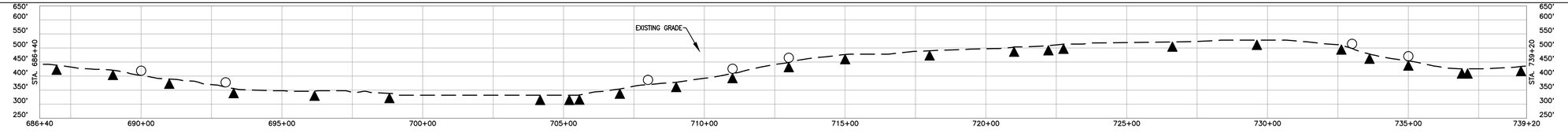
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
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REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

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OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEVIN

PROTECTION EASEMENT

LINE LIST

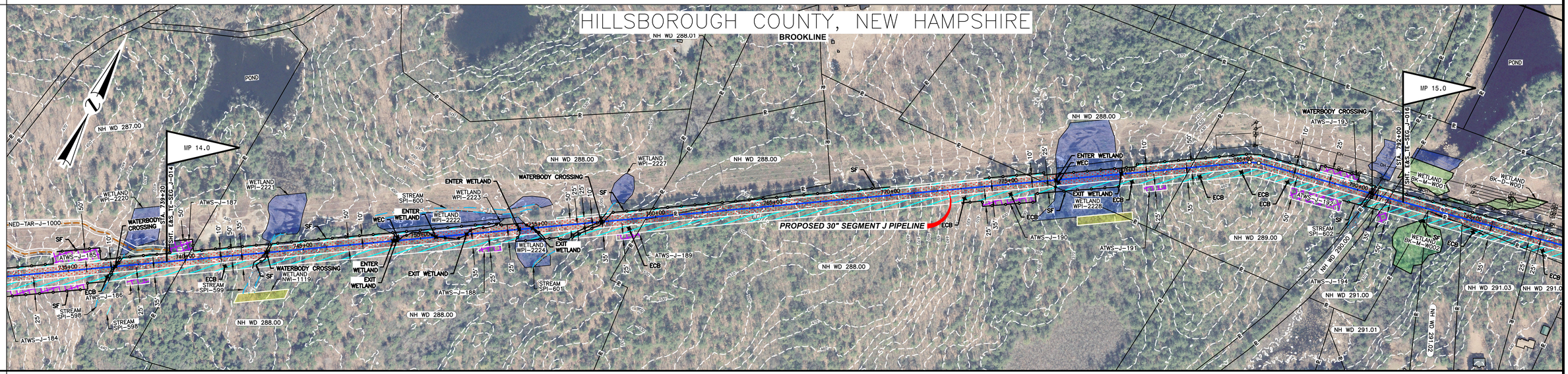
NH WD 288.00 | NH WD 288.00 | NH WD 288.00 | NH WD 288.00 | NH WD 289.00 | NH WD 290.00 | NH WD 291.00

739+20 | 752+08 | 756+12 | 767+99 | 775+21 | 783+10 | 783+84 | 792+00

PIPELINE STATIONING

752+08 PROPERTY LINE
756+12 PROPERTY LINE
767+99 PROPERTY LINE
770+12 ENTER WETLAND NWI-560
772+20 EXIT WETLAND NWI-560
775+21 PROPERTY LINE
777+75 P.I. = 20°14'56" Rt.
782+03 ENTER WETLAND NWI-559
783+10 PROPERTY LINE
783+20 EXIT WETLAND NWI-559
783+84 PROPERTY LINE
784+43 ENTER WETLAND NWI-560
786+65 EXIT WETLAND NWI-560

ALIGNMENT STRIP MAP



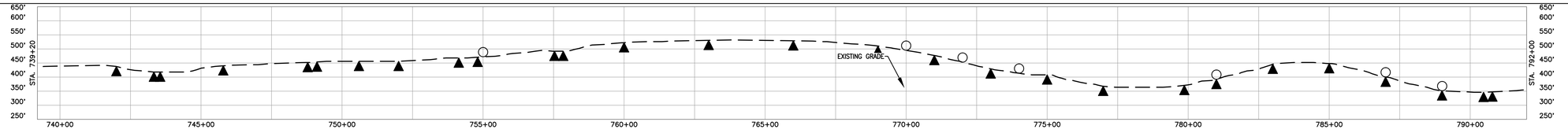
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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AREA: | DIV.:

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NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD: | DATE: | SCALE: 1 = 200' | PROJ. ID.:

PROJECT COORD: | DATE:

OPER. APPR: | DATE:

E&S_TE-SEG_J-015 | 0

11/5/2015 3:53 PM 35mm, 45mm

PROTECTION EASEMENT	
LINE LIST	792+00 · NH WD 291.00 · 795+72 · NH WD 292.00 · 796+12 · NH WD 293.00 · 797+89 · NH WD 294.00 · 799+80 · NH WD 295.00 · 800+29 · NH WD 296.00 · 803+43 · NH WD 297.00 · 808+56 · NH WD 298.00 · 812+67 · NH WD 299.00 · 816+03 · NH WD 300.00 · 819+08 · NH WD 301.00 · 841+90 · NH WD 302.00 · 842+33 · NH WD 303.00 · 843+53 · NH WD 304.00 · 844+80
PIPELINE STATIONING	792+00 PI = #10XX# FL · 794+46 PI = #13XX# FL · 794+80 PI = #39XX# FL · 795+72 PROPERTY LINE NH-WOOD-RD · 796+12 PROPERTY LINE · 797+89 PROPERTY LINE · 799+80 PROPERTY LINE · 799+99 C OF SR-13 · 800+29 PROPERTY LINE · 801+17 PI = #43XX# LT · 801+45 PI = #13XX# LT · 801+84 PI = #13XX# LT · 802+18 PI = #21XX# LT · 802+55 PI = #29XX# LT · 803+43 PROPERTY LINE · 807+28 PI = #23XX# FL · 807+70 PI = #22XX# FL · 808+23 PI = #19XX# FL · 808+56 PROPERTY LINE · 812+67 PROPERTY LINE · 816+03 PROPERTY LINE · 819+08 PROPERTY LINE · 828+35 BROOKLINE TOWNSHIP, HILLSBOROUGH COUNTY · 828+35 MILFORD TOWNSHIP, HILLSBOROUGH COUNTY · 828+49 ℄ OF STREAM WHD-410 · 830+92 ENTER WETLAND NWI-563 · 831+00 ENTER WETLAND NWI-562 · 831+25 EXIT WETLAND NWI-562 · 832+21 EXIT WETLAND NWI-563 · 841+90 PROPERTY LINE · 842+33 PROPERTY LINE · 843+53 PROPERTY LINE · 844+00 PI = #04XX# LT
ALIGNMENT STRIP MAP	HILLSBOROUGH COUNTY, NEW HAMPSHIRE BROOKLINE & MILFORD MP 15.0 · MP 16.0 · PROPOSED 30" SEGMENT J PIPELINE · ENTER WETLAND · EXIT WETLAND · WATERBODY CROSSING · ENTER ROAD · EXIT ROAD · TGCE · ECB · SF · SD · WEC · COMSTOCK DR · RUNNUA RD · TARRY LN · POND · STREAM SPI-602 · STREAM SPI-603 · STREAM SPI-604 · WETLAND BK-M-W002 · WETLAND BK-D-W003 · WETLAND WPI-2232 · WETLAND WPI-2234 · WETLAND WPI-2235 · WETLAND WPI-2236 · ATWS-J-192 · ATWS-J-193 · ATWS-J-194 · ATWS-J-195 · ATWS-J-196 · ATWS-J-197 · ATWS-J-198 · ATWS-J-199 · ATWS-J-200 · ATWS-J-201 · ATWS-J-202 · ATWS-J-203 · ATWS-J-204 · ATWS-J-205 · NH WD 289.00 · NH WD 290.00 · NH WD 291.00 · NH WD 291.01 · NH WD 291.02 · NH WD 291.03 · NH WD 291.04 · NH WD 291.05 · NH WD 292.00 · NH WD 293.00 · NH WD 294.00 · NH WD 295.00 · NH WD 296.00 · NH WD 297.00 · NH WD 297.01 · NH WD 297.02 · NH WD 297.03 · NH WD 297.04 · NH WD 297.05 · NH WD 297.06 · NH WD 297.07 · NH WD 298.00 · NH WD 299.00 · NH WD 300.00 · NH WD 301.00 · NH WD 301.01 · NH WD 301.02 · NH WD 301.03 · NH WD 302.00 · NH WD 303.01 · NH WD 304.01 · SHT. WETLAND 1 OF 1 · SHT. E&S_TE-SEG_J-015 · SHT. E&S_TE-SEG_J-016 · SHT. E&S_TE-SEG_J-017 · STA. 792+00 · STA. 844+80
MATERIAL	
COATING	
DESIGN FACTOR	
CLASS LOCATION	
PROFILE	EXISTING GRADE · STA. 792+00 · STA. 844+80 · 650′ 600′ 550′ 500′ 450′ 400′ 350′ 300′ 250′ · 792+00 795+00 800+00 805+00 810+00 815+00 820+00 825+00 830+00 835+00 840+00 844+80
ENVIRONMENTAL	
SOILS	

PROFILE LEGEND

SLOPE BREAKERS ◯

TRENCH PLUG ▲

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(LIMITS OF DISTURBANCE)

- PROPOSED PIPELINE
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- EXISTING FOREIGN PIPELINE
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- EXISTING FIBER OPTIC LINE
- PA HG3 400.00 — LINE LIST NUMBER
- 2 — PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE: 200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEMM

PROTECTION EASEMENT

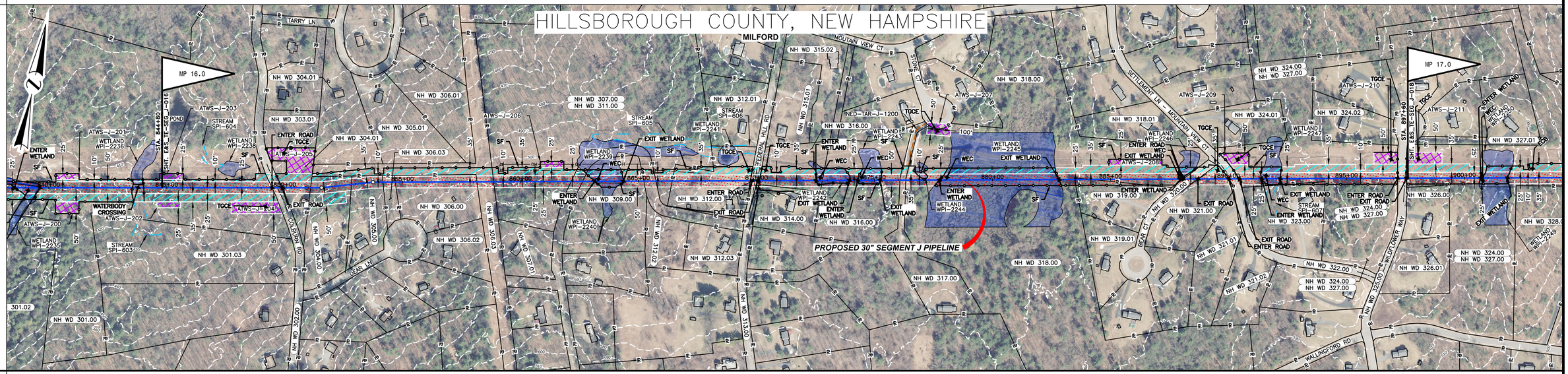
LINE LIST

844+80 NH WD 304.00 | 845+27 NH WD 305.00 | 846+61 NH WD 306.03 | 847+13 NH WD 306.00 | 850+60 NH WD 306.03 | 851+31 NH WD 307.00 / NH WD 311.00 | 854+59 UNK | 855+07 NH WD 309.00 | 857+66 UNK | 858+18 NH WD 307.00 / NH WD 311.00 | 858+87 NH WD 312.00 | 862+18 NH WD 313.00 | 862+57 NH WD 315.00 | 865+23 NH WD 316.00 | 868+52 NH WD 317.00 | 868+76 NH WD 318.00 | 875+92 NH WD 319.00 | 876+63 NH WD 318.00 | 880+52 NH WD 320.00 | 881+15 NH WD 321.00 | 882+45 NH WD 322.00 | 882+89 NH WD 324.00 / NH WD 327.00 | 889+60 NH WD 325.00 | 889+98 NH WD 324.00 / NH WD 327.00 | 897+60

PIPELINE STATIONING

845+27 PROPERTY LINE
~~846+10 P.I. = 8°51'25" RT.~~
846+61 PROPERTY LINE
847+13 PROPERTY LINE
850+60 PROPERTY LINE
851+31 PROPERTY LINE
854+59 PROPERTY LINE
855+07 PROPERTY LINE
855+09 ENTER WETLAND NWI-791
857+66 PROPERTY LINE
857+66 EXIT WETLAND NWI-791
858+18 PROPERTY LINE
858+87 PROPERTY LINE
860+62 ENTER WETLAND NWI-792
861+43 EXIT WETLAND NWI-792
862+18 PROPERTY LINE
862+39 ℄ OF FEDERAL HILL RD
862+57 PROPERTY LINE
865+23 PROPERTY LINE
868+52 PROPERTY LINE
868+76 PROPERTY LINE
871+30 ENTER WETLAND NWI-565
875+78 EXIT WETLAND NWI-565
875+92 PROPERTY LINE
876+63 PROPERTY LINE
880+52 PROPERTY LINE
881+15 PROPERTY LINE
881+15 ℄ OF BEAR CT
882+45 PROPERTY LINE
882+48 ℄ OF SETTLEMENT LN-MOUNTAIN VIEW CT
882+69 PROPERTY LINE
889+60 PROPERTY LINE
889+92 ℄ OF WILDFLOWER WAY
889+98 PROPERTY LINE

ALIGNMENT STRIP MAP



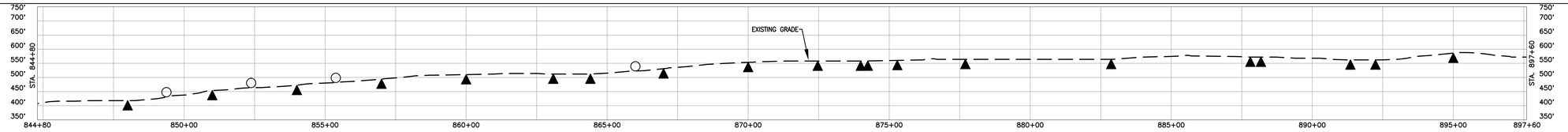
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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LEGEND

- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

- PROPOSED PIPELINE
- EXISTING TENNESSEE GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OH — OVERHEAD POWER LINE
- F — EXISTING FIBER OPTIC LINE
- PA HG3 400.00 — LINE LIST NUMBER
- 2 — PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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
DRAFT. COORD: HMM	DATE: 01-12-15

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-017	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEVIN

PROTECTION EASEMENT

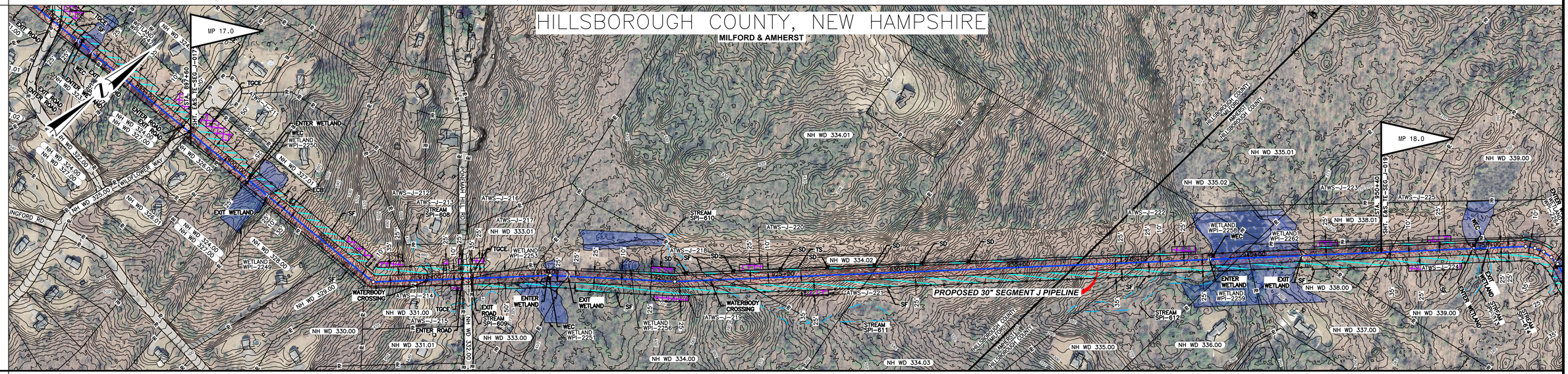
LINE LIST

NH WD 324.00
NH WD 327.00
NH WD 332.00
NH WD 333.00
NH WD 334.00
NH WD 334.02
NH WD 334.03
NH WD 335.00
NH WD 338.00
NH WD 337.00
NH WD 338.00
NH WD 339.00

PIPELINE STATIONING

897+60
903+82 PROPERTY LINE
904+07 E. OF POWDAHI HILL RD
904+20 PROPERTY LINE
906+80 PROPERTY LINE
907+55 PI = 4°30'00" LT.
912+84 PI = 8°12'37" LT.
914+87 E. OF STREAM NHD-411
915+41 PROPERTY LINE
921+23 PROPERTY LINE
929+89 MILFORD TOWNSHIP, HILLSBOROUGH COUNTY
929+89 AMHERST TOWNSHIP, HILLSBOROUGH COUNTY
932+71 PROPERTY LINE
935+78 PROPERTY LINE
937+21 PROPERTY LINE
939+75 PROPERTY LINE
943+20 PROPERTY LINE
947+32 E. OF STREAM NHD-412
950+40

ALIGNMENT STRIP MAP



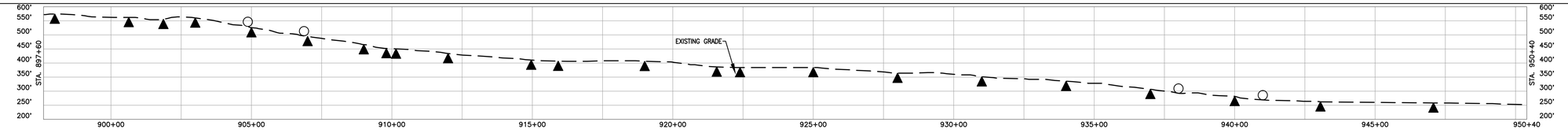
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

NOTES

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- POTENTIAL STAGING AREA

LIMITS OF DISTURBANCE

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- WETLAND (DELINEATED)
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- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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DRAFT. COORD: HMM | DATE: 01-12-15

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD: | DATE: | SCALE: 1 = 200' | PROJ. ID.:

PROJECT COORD: | DATE:

OPER. APPR: | DATE:

E&S_TE-SEG_J-018 | 0

11/5/2015 3:53 PM 200ML 40M

PROTECTION EASEMENT

LINE LIST

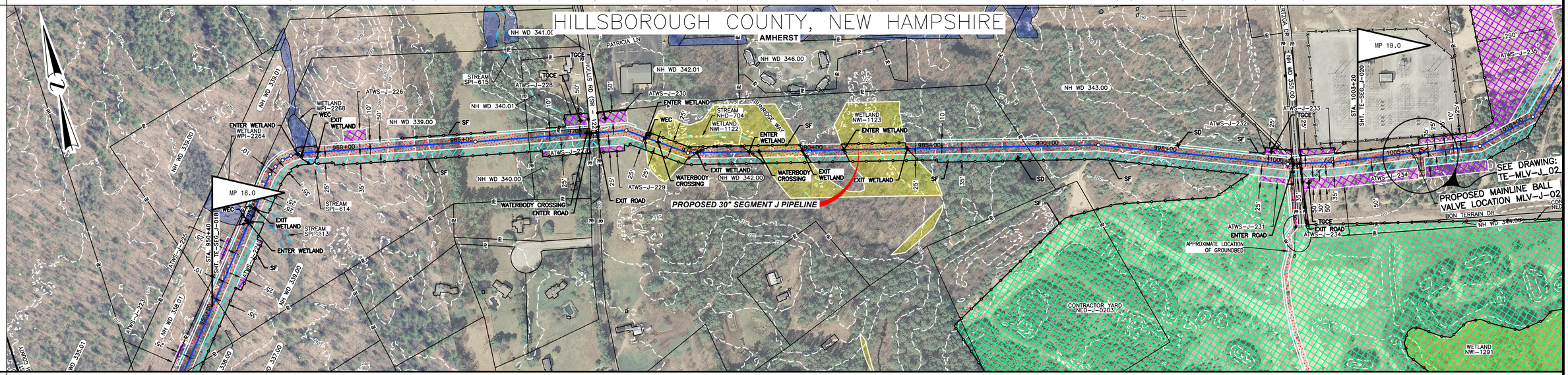
NH WD 339.00 | NH WD 340.00 | NH WD 341.00 | NH WD 342.00 | NH WD 343.00 | NH WD 344.00 | NH WD 345.00 | NH WD 346.00 | NH WD 347.00 | NH WD 348.00 | NH WD 349.00 | NH WD 350.00 | NH WD 351.00 | NH WD 352.00 | NH WD 353.00 | NH WD 355.00 | NH WD 358.00

PIPELINE STATIONING

950+40 | 959+53 | 961+45 | 966+09 | 966+50 | 968+30 | 971+50 | 973+07 | 973+48 | 974+56 | 975+77 | 977+01 | 977+97 | 980+31 | 985+65 | 1000+36 | 1003+74 | 1003+20

950+40 PI = 44°43'30" RT
959+53 PI = 58°21'56" LT
961+45 PI = 58°22'24" RT
963+13 ℄ OF STREAM NHD-413
966+09 PROPERTY LINE
966+50 PI = 43°37'11" LT
966+50 ROUTE 130 (SR - 122)
968+25 PROPERTY LINE
968+30 ENTER WETLAND NW-566
968+31 PI = 8°18'42" RT
969+68 EXIT WETLAND NW-566
971+50 PROPERTY LINE
971+50 PI = 17°05'5" RT
973+07 PROPERTY LINE
973+07 PI = 10°03'42" LT
973+47 PI = 8°10'47" RT
973+48 PROPERTY LINE
974+56 PROPERTY LINE
975+77 PROPERTY LINE
977+01 PROPERTY LINE
977+97 PROPERTY LINE
980+30 PI = 11°02'1" RT
980+31 PROPERTY LINE
984+53 ENTER WETLAND NW-567
985+65 PROPERTY LINE
985+81 EXIT WETLAND NW-567
990+46 PI = 72°49'17" RT
992+32 PI = 12°05'8" LT
995+92 PI = 10°43'5" LT
1000+36 PI = 44°24'56" LT
1000+38 PROPERTY LINE
1000+47 ℄ OF HERITZA DR
1000+74 PROPERTY LINE
1003+20 PI = 3°47'46" LT

ALIGNMENT STRIP MAP



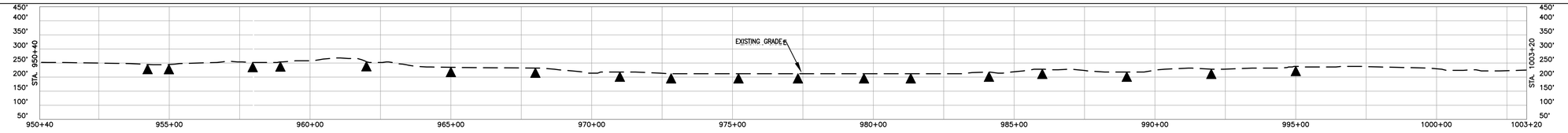
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
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OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEVIN

PROTECTION EASEMENT

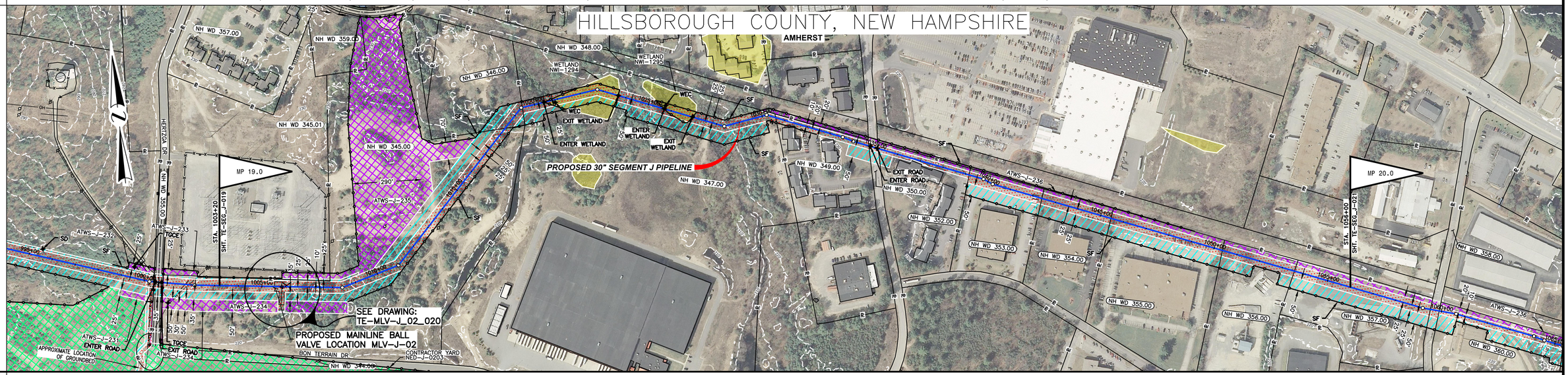
LINE LIST

1003+20 | NH WD 358.00 | 1017+50 | NH WD 359.00 | 1020+10 | NH WD 360.00 | 1020+47 | NH WD 361.00 | 1021+84 | NH WD 362.00 | 1022+92 | NH WD 364.00 | 1026+92 | NH WD 365.00 | 1038+37 | NH WD 366.00 | 1039+44 | NH WD 367.00 | 1040+51 | NH WD 368.00 | 1046+52 | NH WD 369.00 | 1054+85 | NH WD 370.00 | 1055+06 | NH WD 371.00 | 1055+43 | NH WD 372.00 | 1056+00

PIPELINE STATIONING

1003+20 PI ~ 34°11'34" LT
1012+62 PI ~ 04°48'18" LT
1015+40 PI ~ 61°17'46" RT
1017+50 PROPERTY LINE
1017+88 PI ~ 83°30'13" RT
1020+10 PROPERTY LINE
1020+36 ℄ OF DRAKENA RD
1020+47 PROPERTY LINE
1020+94 ENTER WETLAND NWI-568
1021+08 PAN AM RAILWAYS
1021+71 EXIT WETLAND NWI-568
1021+84 PROPERTY LINE
1022+46 ℄ OF SR - 101A
1022+56 PROPERTY LINE
1022+85 PI ~ 29°30'12" LT
1023+04 ENTER WETLAND NWI-569
1024+50 ENTER WETLAND NWI-570
1024+78 EXIT WETLAND NWI-569
1026+92 PROPERTY LINE
1038+71 EXIT WETLAND NWI-570
1039+37 PROPERTY LINE
1039+44 PROPERTY LINE
1040+51 PROPERTY LINE
1040+74 PI ~ 28°42'27" LT
1045+06 PI ~ 47°00'36" RT
1045+81 ENTER WETLAND NWI-571
1046+52 PROPERTY LINE
1048+85 EXIT WETLAND NWI-571
1054+85 PROPERTY LINE
1055+06 PROPERTY LINE
1055+24 ℄ OF STEARNS RD
1055+43 PROPERTY LINE

ALIGNMENT STRIP MAP



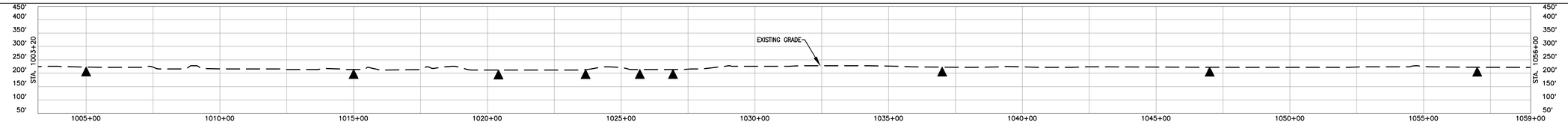
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS ◯

TRENCH PLUG ▲

NOTES

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- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

NO	PROJ ID	DESCRIPTION	DATE	BY	CK	APPR
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SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-020	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEVIN

PROTECTION EASEMENT

LINE LIST

1056+00 | NH WD 357.00 | 1059+52 | NH WD 358.00 | 1059+90 | NH WD 360.00 | 1065+35 | NH WD 361.00 | 1072+53 | NH WD 359.00 | 1072+97 | NH WD 361.00 | 1079+13 | NH WD 363.00 | 1082+51 | NH WD 364.00 | 1086+52 | NH WD 365.00 | 1087+63 | NH WD 366.00 | 1090+94 | NH WD 367.00 | 1091+35 | NH WD 369.00 | 1097+63 | NH WD 371.00 | 1101+79 | NH WD 372.00 | 1105+25 | NH WD 373.00 | 1107+27 | NH WD 375.00 | 1108+00

PIPELINE STATIONING

1059+18 PI = #°00'00" LT.
1059+52 PROPERTY LINE
1059+70 ℄ OF CALDWELL DR
1059+90 PROPERTY LINE
1060+63 PI = #°00'00" RT.

1064+08 PI = #°00'00" RT.
1064+63 PI = #°00'00" LT.

1065+35 PROPERTY LINE
1065+35 PI = 13°00'00" RT.
1065+58 PI = 13°00'00" LT.

1072+53 PROPERTY LINE
1072+97 PROPERTY LINE

1079+13 PROPERTY LINE

1082+51 PROPERTY LINE

1086+52 PROPERTY LINE
1087+47 MUNICIPAL LINE
1087+63 MUNICIPAL LINE
1087+63 PROPERTY LINE

1090+94 PROPERTY LINE
1091+10 ℄ OF N HOLLIS RD
1091+35 PROPERTY LINE

1097+63 PROPERTY LINE

1101+35 EDGE OF WETLAND
1101+76 MUNICIPAL LINE
1101+76 MUNICIPAL LINE
1101+79 PROPERTY LINE
1102+85 ℄ OF STREAM

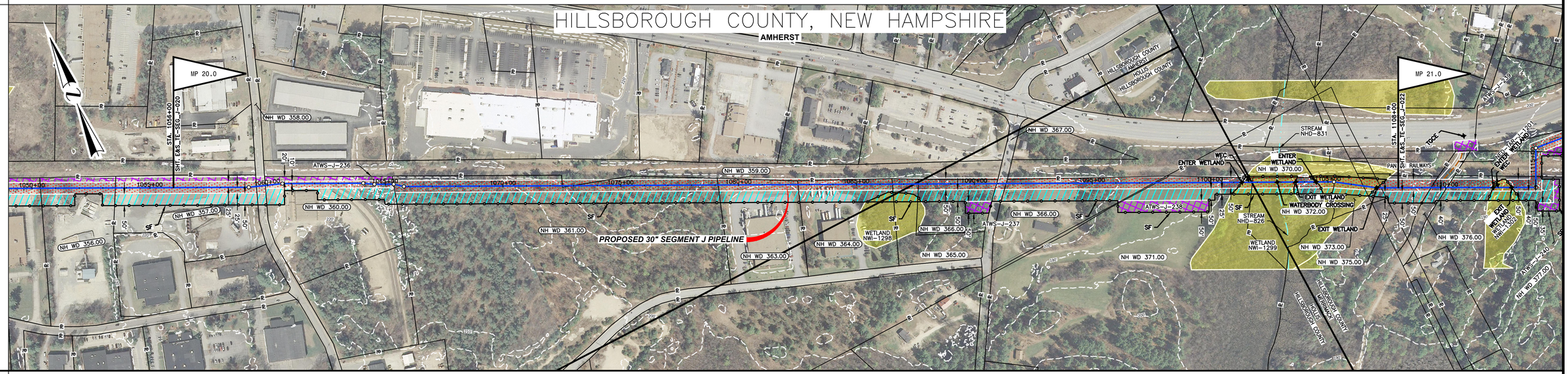
1103+63 EDGE OF WETLAND

1104+49 EDGE OF WETLAND

1105+25 PROPERTY LINE
1105+25 PI = #°#'#" RT.

1107+08 PI = #°#'#" LT.
1107+09 EDGE OF WETLAND
1107+27 PROPERTY LINE

ALIGNMENT STRIP MAP



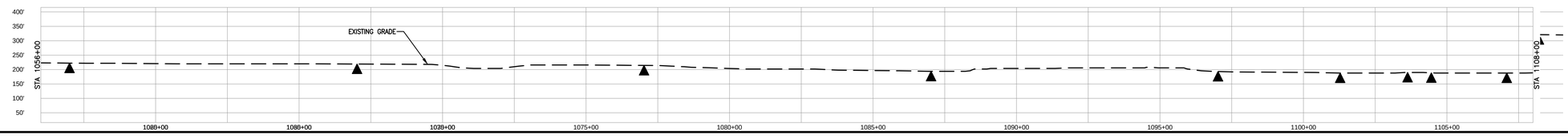
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION — CLASS 3

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-020	ALIGNMENT SHEET
TE-SEG_J-022	ALIGNMENT SHEET

TYPICALS

SCALE: 200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

SCALE: 1 = 200' | PROJ. ID.:

E&S_TE-SEG_J-021 | 0

11/5/2015 3:53 PM 30inML 45dtt

PROTECTION EASEMENT

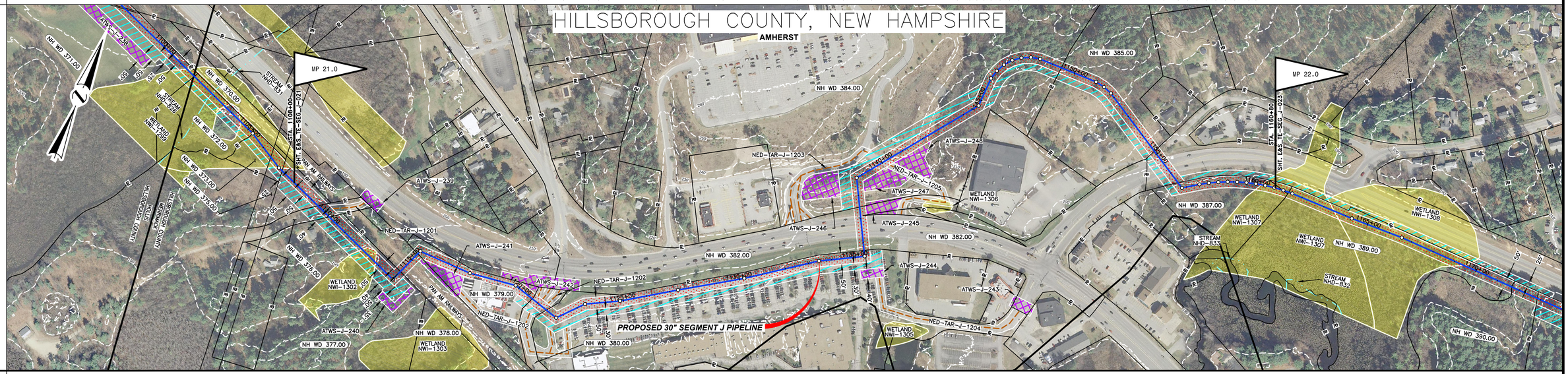
LINE LIST

1108+00	NH WD 375.00	1109+39	OHL WD 376.00	1110+08	NH WD 377.00	1114+30	NH WD 378.00	1115+36	NH WD 379.00	1120+72	OHL WD 380.00	1121+49	XXX	1155+85	OHL WD 382.00	1137+50	NH WD 384.00	1149+39	NH WD 385.00	1154+84	XXX	1156+52	NH WD 387.00	1160+80

PIPELINE STATIONING

1109+39 PROPERTY LINE
1110+06 PROPERTY LINE
1110+08 ℄ OF HALL AVE
1112+03 EDGE OF WETLAND
1112+81 EDGE OF WETLAND
1113+46 PI = S 69°00'07" LT
1114+30 PROPERTY LINE
1114+61 ℄ PAN AM RAILWAYS
1115+36 PROPERTY LINE
1115+61 PI = S 68°32'48" RT
1117+81 PI = S 8°52'18" LT
1119+81 PI = S 23°36'37" RT
1120+72 PROPERTY LINE
1121+49 PROPERTY LINE
1122+01 PI = S 64°15'54" LT
1123+36 PI = S 20°33'56" RT
1124+85 PI = S 9°32'24" LT
1127+35 PI = S 4°42'56" RT
1130+21 PI = S 0°06'56" LT
1133+48 PI = S 7°18'54" RT
1135+45 PI = S 90°00'00" LT
1135+73 ℄ OF STATE RTE 101A
1137+50 PROPERTY LINE
1138+75 PI = S 89°12'26" RT
1144+75 PI = S 34°51'42" LT
1146+02 PI = S 12°32'15" RT
1146+42 PI = S 12°32'15" RT
1147+22 PI = S 12°32'15" RT
1147+62 PI = S 12°32'15" RT
1148+02 PI = S 12°32'15" RT
1148+42 PI = S 12°32'15" RT
1149+39 PROPERTY LINE
1150+08 PI = N 74°15'56" RT
1151+38 PI = N 74°15'56" RT
1151+78 PI = N 74°15'56" RT
1154+84 PROPERTY LINE
1155+63 ℄ OF CONTINENTAL BLVD
1156+52 PROPERTY LINE
1156+78 PI = S 64°30'56" LT
1157+55 PI = S 0°09'24" RT
1157+95 PI = S 0°09'24" RT
1158+35 PI = S 0°09'24" RT
1158+75 PI = S 0°09'24" RT
1159+15 PI = S 0°09'24" RT
1159+55 PI = S 0°09'24" RT
1159+95 PI = S 0°09'24" RT
1160+20 EDGE OF WETLAND
1160+35 PI = S 0°09'24" RT
1160+75 PI = S 0°09'24" RT

ALIGNMENT STRIP MAP



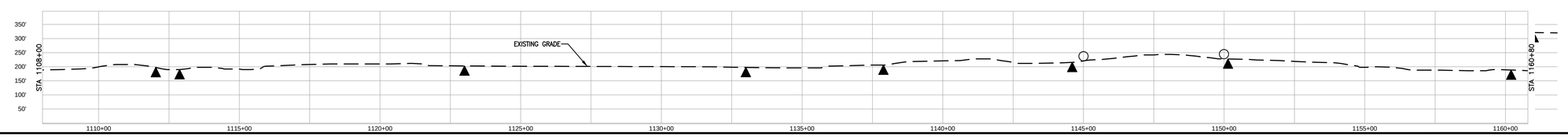
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION — CLASS 3

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

NOTES

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LEGEND

- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

- PROPOSED PIPELINE
- EXISTING TENNESSEE GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OVERHEAD POWER LINE
- EXISTING FIBER OPTIC LINE
- PA HG3 400.00 — LINE LIST NUMBER
- R — PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-021	ALIGNMENT SHEET
TE-SEG_J-023	ALIGNMENT SHEET

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

NO	PROJ ID	DESCRIPTION	DATE	BY	CK	APPR
0	201274	~~DRAFT~~ ISSUED FOR FERC	07/2015	HMM	HMM	

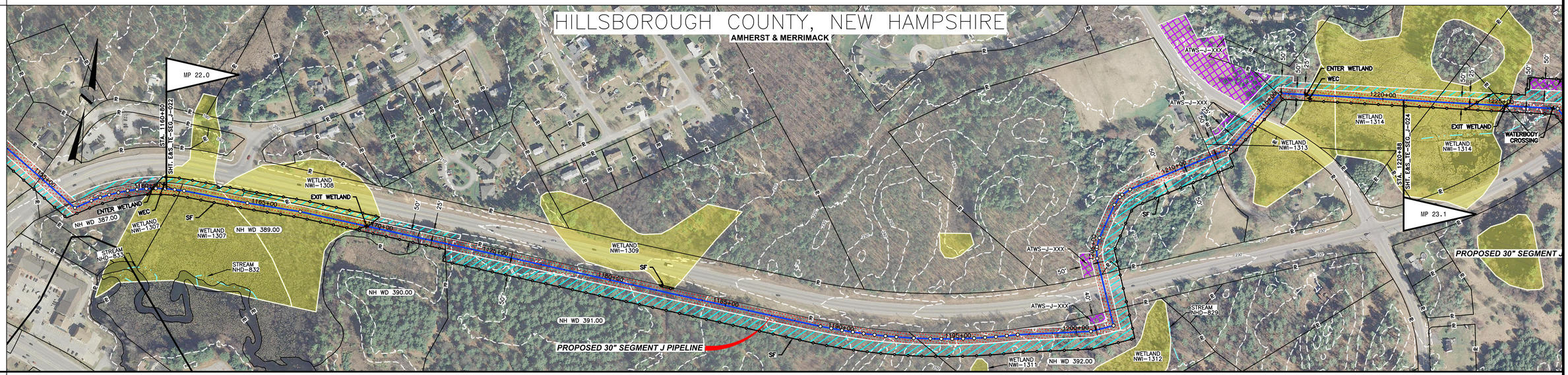
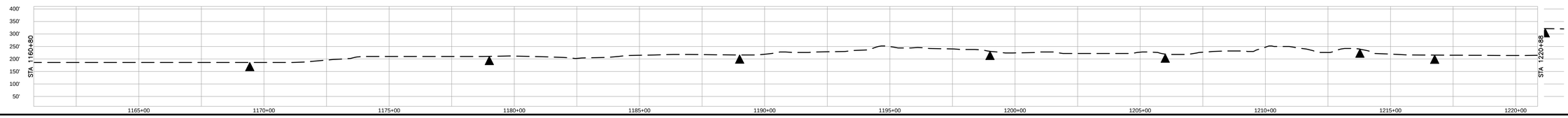
AREA:		DIV.:	
DRAFTER: HMMM		DATE: ~~01/1/21/15~~	
DRAFT. COORD:	HMMM	DATE: ~~01/1/21/15~~	

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-022	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM 200scl, 40sht

PROTECTION EASEMENT	
LINE LIST	1160+80 · NH WD 387.00 · 1161+12 · NH WD 388.00 · 1161+39 · NH WD 389.00 · 1171+66 · NH WD 390.00 · 1172+84 · NH WD 391.00 · 1193+22 · NH WD 392.00 · 1202+27 · XXX · 1203+84 · XXX · 1211+61 · XXX · 1212+68 · XXX · 1213+89 · XXX · 1215+56 · XXX · 1220+88
PIPELINE STATIONING	1161+12 PROPERTY LINE 1161+15 PA = 3°00'0" RT 1161+39 PROPERTY LINE 1161+50 PA = 3°00'0" RT 1163+47 EDGE OF WETLAND 1164+28 PA = 1°40'0" LT 1168+56 PA = 3°00'0" RT 1169+43 EDGE OF WETLAND 1171+66 PROPERTY LINE 1172+84 PROPERTY LINE 1188+12 PA = 1°00'0" LT 1188+58 PA = 0°59'6" LT 1190+06 PA = 1°00'0" LT 1190+51 PA = 1°00'0" LT 1190+98 PA = 0°59'6" LT 1191+44 PA = 1°00'0" LT 1191+91 PA = 0°59'6" LT 1192+37 PA = 1°00'0" LT 1193+11 PA = 2°03'3" LT 1193+22 PROPERTY LINE 1193+81 PA = 1°00'0" LT 1194+28 PA = 0°59'6" LT 1194+74 PA = 0°59'6" LT 1195+20 PA = 1°00'0" LT 1195+67 PA = 0°59'6" LT 1196+13 PA = 1°00'0" LT 1196+59 PA = 1°00'0" LT 1197+05 PA = 1°00'0" LT 1197+50 PA = 2°31'4" RT 1200+65 PA = 11°50'26" LT 1201+55 PA = 86°22'35" LT 1202+27 PROPERTY LINE 1202+34 PA = 10°42'17" RT 1202+84 PA = 10°42'17" RT 1203+84 PA = 8°17'56" RT 1204+43 PA = 10°22'21" LT 1207+37 PA = 10°22'21" RT 1207+51 PA = 11°23'39" RT 1207+91 PA = 11°23'39" RT 1211+61 PROPERTY LINE 1212+33 PA = 11°37'37" LT 1212+57 PA = 13°33'33" LT 1212+68 PROPERTY LINE 1213+89 PROPERTY LINE 1214+59 ℄ OF TINKER RD 1215+56 PROPERTY LINE 1215+66 PA = 50°30'02" RT 1216+76 EDGE OF WETLAND 1217+97 EDGE OF WETLAND
ALIGNMENT STRIP MAP	
MATERIAL	
COATING	
DESIGN FACTOR	
CLASS LOCATION	CLASS 3
PROFILE	
ENVIRONMENTAL	
SOILS	

PROFILE LEGEND

SLOPE BREAKERS ◯

TRENCH PLUG ▲

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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

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- EXISTING TENNESSEE GAS PIPELINE
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- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-022	ALIGNMENT SHEET
TE-SEG_J-024	ALIGNMENT SHEET

TYPICALS

SCALE: 200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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	
DRAFT. COORD:	HMM	DATE: 01-12-15	
DESIGN COORD:		DATE:	
PROJECT COORD:		DATE:	
OPER. APPR:		DATE:	

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

SCALE: 1 = 200' | PROJ. ID.:

E&S_TE-SEG_J-023 | 0

11/5/2015 3:53 PM SHAWL KEMP

PROTECTION EASEMENT

LINE LIST

1220+88	XXX	1222+21	XXX	1225+19	XXX	1227+92	XXX	1229+55	NH WD 397.00	1244+15	NH WD 398.00	1249+41	NH WD 399.00 NH WD 401.00	1257+48

PIPELINE STATIONING

1222+21 PROPERTY LINE

1225+19 PROPERTY LINE
1225+22 EDGE OF WETLAND

1227+21 ℄ OF STREAM
1227+42 PA = 40°06'08" LT.
1227+92 PROPERTY LINE

1229+55 PROPERTY LINE

1232+13 PA = 12°43'47" LT.
1232+35 PA = 12°43'47" LT.
1232+58 PA = 12°43'47" LT.
1232+80 PA = 12°43'47" LT.
1233+25 PA = 12°43'47" LT.
1233+70 PA = 12°43'47" LT.
1234+13 PA = 12°43'47" LT.
1234+68 PA = 12°43'47" LT.

1242+77 EDGE OF WETLAND
1243+30 PA = 40°34'59" LT.

1244+15 PROPERTY LINE
1244+42 EDGE OF WETLAND

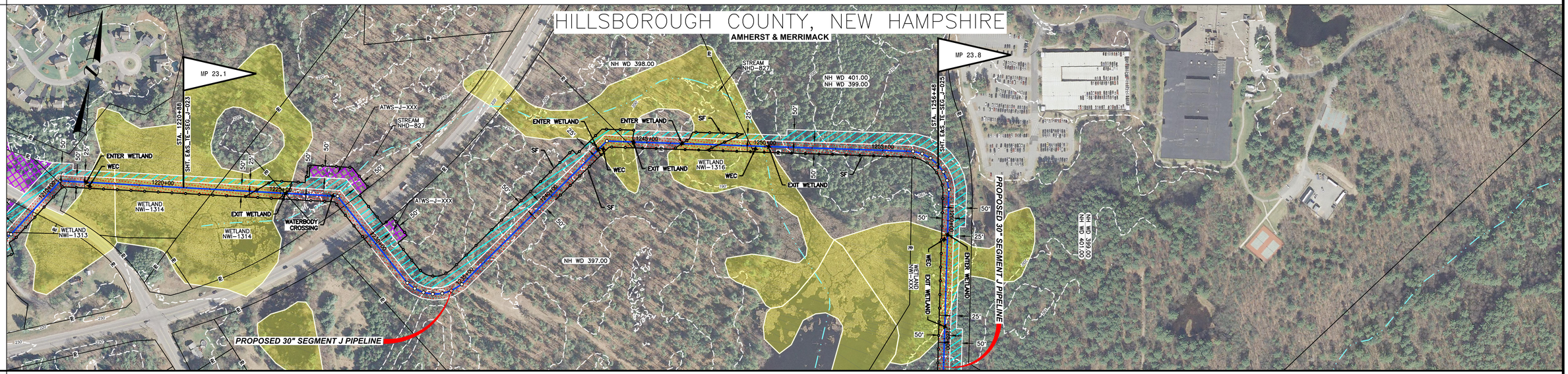
1246+49 EDGE OF WETLAND

1248+41 PROPERTY LINE
1248+81 ℄ OF STREAM
1250+16 EDGE OF WETLAND

1253+74 ℄ OF CONTRA WAY

1256+28 PA = 12°49'52" LT.
1256+48 PA = 12°49'52" LT.
1257+04 PA = 12°49'52" LT.
1257+48 PA = 12°49'52" LT.

ALIGNMENT STRIP MAP



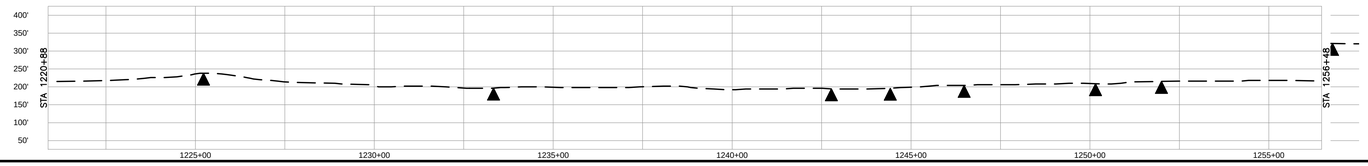
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION | CLASS 3

PROFILE



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	LIMITS OF DISTURBANCE	WETLAND (PHOTO INTERPRETED)
	PROPOSED PIPELINE		WETLAND (DELINEATED)
	EXISTING TENNESSEE GAS PIPELINE		STREAM (DELINEATED)
	EXISTING FOREIGN PIPELINE		STREAM (PHOTO INTERPRETED)
OH	OVERHEAD POWER LINE		STREAM (PUBLIC)
F	EXISTING FIBER OPTIC LINE		ACCESS ROAD
		X	FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-023	ALIGNMENT SHEET
TE-SEG_J-025	ALIGNMENT SHEET

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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	
DRAFT. COORD:	HMM	DATE: 01-12-15	
DESIGN COORD:		DATE:	
PROJECT COORD:		DATE:	
OPER. APPR:		DATE:	

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

SCALE: 1 = 200' | PROJ. ID.:

E&S_TE-SEG_J-024 | 0

11/5/2015 3:53 PM STROUL, BROOKE A

PROTECTION EASEMENT

LINE LIST

1257+48 — NH WD 399.00 / NH WD 401.00 — 1280+00

PIPELINE STATIONING

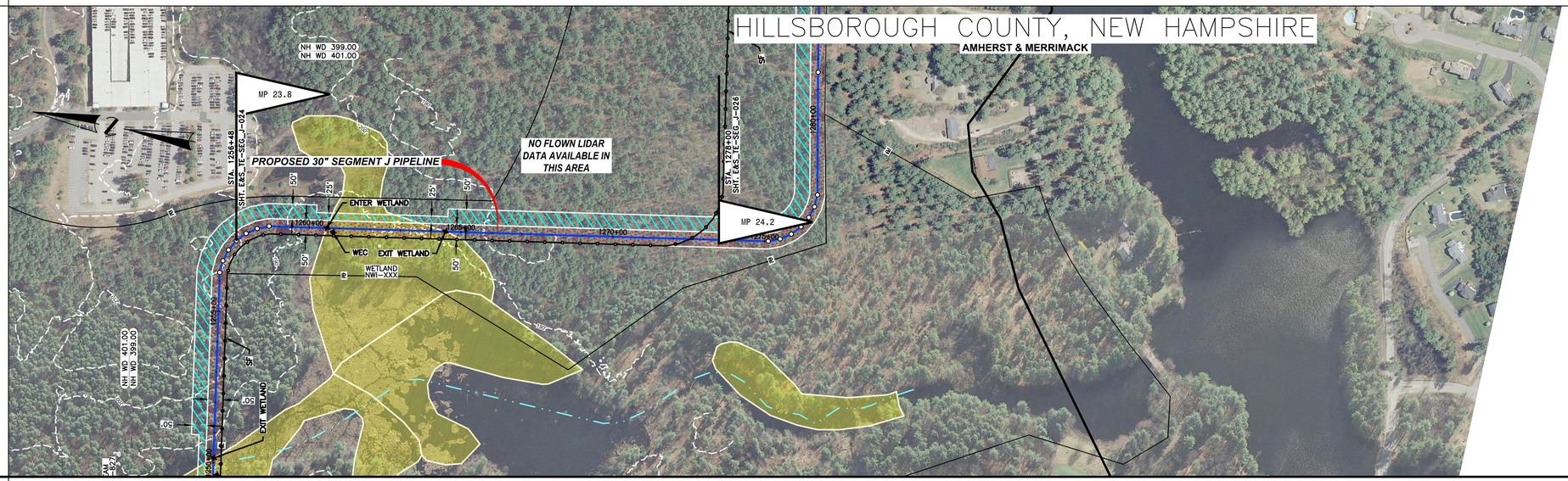
1257+48 P.I. = 12+49.5' RT
1258+28 P.I. = 12+49.5' RT
1258+68 P.I. = 12+49.5' RT

1260+58 EDGE OF WETLAND

1264+49 EDGE OF WETLAND

1272+12 P.I. = 12+51.5' LT
1272+52 P.I. = 12+51.5' LT
1272+92 P.I. = 12+51.5' LT
1273+32 P.I. = 12+51.5' LT
1273+72 P.I. = 12+51.5' LT
1274+12 P.I. = 12+51.5' LT
1274+52 P.I. = 12+51.5' LT

ALIGNMENT STRIP MAP



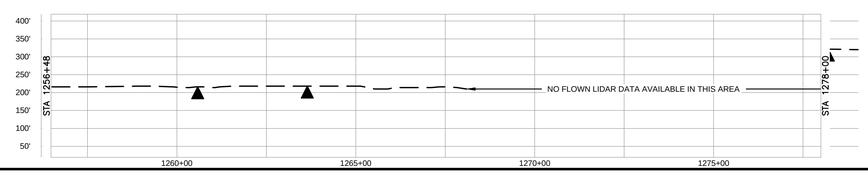
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION — CLASS 3

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND
SLOPE BREAKERS
TRENCH PLUG

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NOTE:
FROM STATION 1256+48 TO 1318+00
THE ALIGNMENT IS BEING RE-ROUTED AND THIS SHEET WILL BE REVISED AND RESUBMITTED AT A LATER DATE.

LEGEND

- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA
- LIMITS OF DISTURBANCE
- PROPOSED PIPELINE
- EXISTING TENNESSEE GAS PIPELINE
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- PA HG3 400.00 — LINE LIST NUMBER
- PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-024	ALIGNMENT SHEET
TE-SEG_J-026	ALIGNMENT SHEET

TYPICALS

SCALE
200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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
DRAFT. COORD: HMM | DATE: 01-12-15

Tennessee Gas Pipeline Company, L.L.C.
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NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD: | DATE: | SCALE: 1 = 200' | PROJ. ID.:
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OPER. APPR: | DATE:

E&S_TE-SEG_J-025 | 0

11/5/2015 3:53 PM STROUL, BROOKE K

PROTECTION EASEMENT

LINE LIST

1280+00 — NH WD 399.00 / NH WD 401.00 — 1318+00

PIPELINE STATIONING

1281+58 P.I. = 0°32'06" LT

1289+40 P.I. = 7°48'13" LT

1289+73 ℄ OF STREAM

1299+98 P.I. = 20°00'49" LT

1304+98 P.I. = 20°00'49" RT

1304+09 EDGE OF WETLAND

1305+81 EDGE OF WETLAND

1306+65 P.I. = 13°32'24" LT

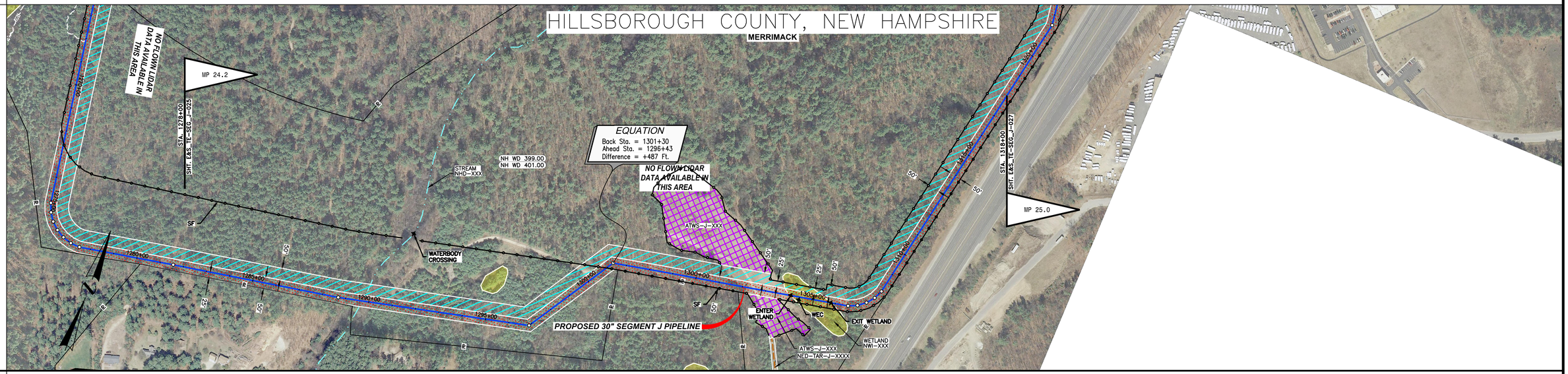
1306+98 P.I. = 13°32'24" LT

1312+15 P.I. = 13°32'24" LT

1312+48 P.I. = 13°32'24" LT

1306+15 P.I. = 13°32'24" LT

ALIGNMENT STRIP MAP



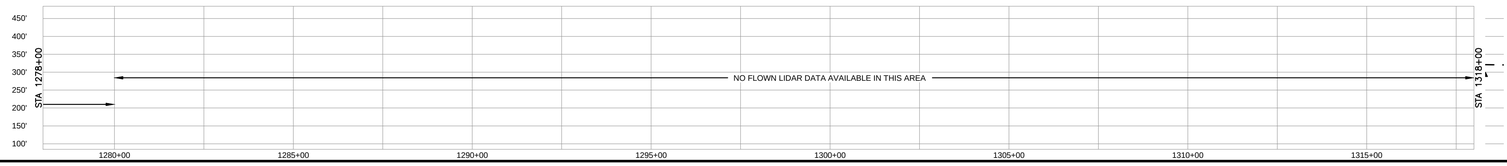
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION — CLASS 3

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS ◯

TRENCH PLUG ▲

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- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

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- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-025	ALIGNMENT SHEET
TE-SEG_J-027	ALIGNMENT SHEET
TE-SEG_J_HDD-001	HDD PLAN & PROFILE

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

SCALE: 1 = 200' | PROJ. ID.:

E&S_TE-SEG_J-026 | 0

11/5/2015 3:53 PM STROUL, BROOKE R

PROTECTION EASEMENT

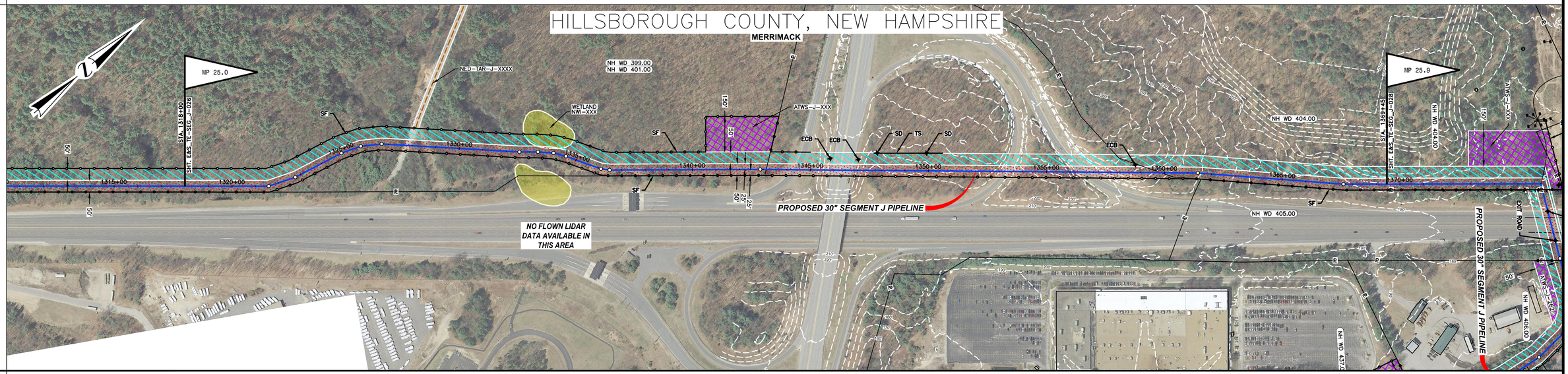
LINE LIST

1318+00 — NH WD 399.00 / NH WD 401.00 — 1343+13 — XXX — 1359+85 — NH WD 404.00 — 1369+45

PIPELINE STATIONING

1321+58.5 P.I. = 18°37'46" LT.
1322+74 P.I. = 8°56'03" LT.
1324+48 P.I. = 7°47'18" RT.
1325+82 P.I. = 13°32'16" RT.
1328+79 P.I. = 8°37'06" RT.
1332+05 P.I. = 3°13'09" LT.
1333+34 P.I. = 4°06'27" RT.
1334+90 P.I. = 10°13'51" RT.
1336+58 P.I. = 5°28'27" RT.
1338+12 P.I. = 12°50'58" LT.
1338+48 P.I. = 7°19'23" LT.
1342+30 ℄ OF FREDERICK E EVERETT TPKE
1342+48 ℄ OF FREDERICK E EVERETT TPKE
1343+13 PROPERTY LINE
1355+86 ℄ OF DANIEL WEBSTER HWY
1356+25 ℄ OF DANIEL WEBSTER HWY
1359+85 PROPERTY LINE
1361+41 P.I. = 3°56'48" RT.
1366+25 HDD ENTRY/EXIT LOCATION
1367+41 P.I. = 4°22'32" LT.

ALIGNMENT STRIP MAP



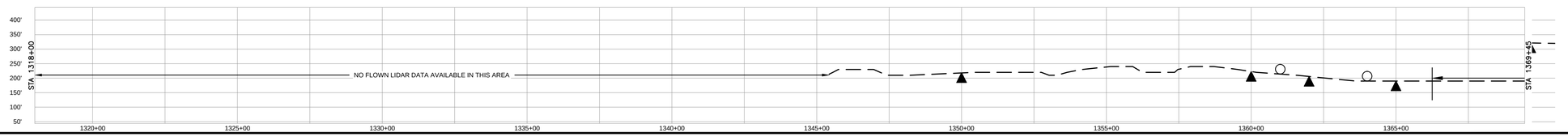
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION — CLASS 3

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS ◯

TRENCH PLUG ▲

NOTES

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LEGEND

- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

LIMITS OF DISTURBANCE

- PROPOSED PIPELINE
- EXISTING TENNESSEE GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OVERHEAD POWER LINE
- EXISTING FIBER OPTIC LINE
- PA HG3 400.00 — LINE LIST NUMBER
- R — PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-026	ALIGNMENT SHEET
TE-SEG_J-028	ALIGNMENT SHEET
TE-SEG_J_HDD-001	HDD PLAN & PROFILE

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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

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EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-027	0
OPER. APPR:	DATE:		

11/5/2015 3:55 PM STROUL_BROOKE_K

PROTECTION EASEMENT

LINE LIST

1369+45	NH WD 404.00	1341+08	NH WD 405.00	1344+18	NH WD 406.00	1354+31	NH WD 437	1355+46	NH WD 438	1356+69	NH WD 439	1373+89	NH WD 440	1374+27

PIPELINE STATIONING

1375+97 P.I. = 7°51'00" RT.
1341+08 PROPERTY LINE
1341+15 FENCE

1344+18 P.I. = 2°47'59" LT.
1344+18 PROPERTY LINE

1354+31 P.I. = 12°25'53" RT.
1354+43 P.I. = 12°25'53" RT.
1354+55 P.I. = 12°25'53" RT.
1354+68 P.I. = 12°25'53" RT.

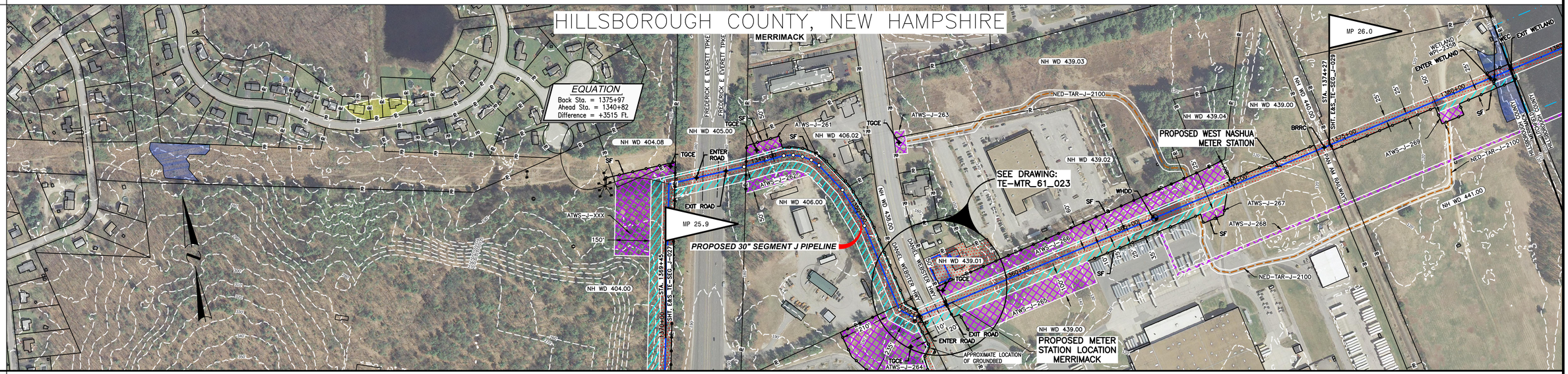
1355+46 P.I. = 12°25'53" RT.

1356+69 P.I. = 12°03'18" RT.

1360+45 P.I. = 8°53'47" RT.
1354+43 HDD PIPE CL
1354+31 PROPERTY LINE
1354+31 P.I. = 90°00'00" LT.
1355+24 WATER GATE 185' LT.
1355+44 PROPERTY LINE
1355+48 OVERHEAD POWER LINE
1355+52 UTILITY POLE 37' RT.
1355+68 UTILITY POLE 37' RT.
1356+04 PROPERTY LINE
1360+04 HDD ENTRY/EXIT LOCATION

1372+89 S OF CHARLES BANCROFT HWY
1373+89 PROPERTY LINE
1375+68 E PAN AM RAILWAYS

ALIGNMENT STRIP MAP



MATERIAL

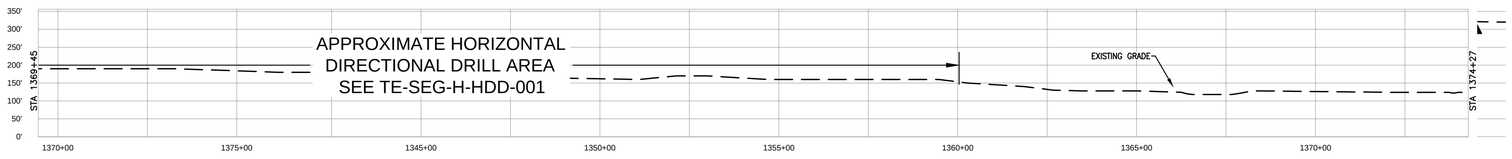
COATING

DESIGN FACTOR

CLASS LOCATION

CLASS 3	CLASS 1

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

NOTES

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LEGEND

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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

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- PROPERTY LINE
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- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-027	ALIGNMENT SHEET
TE-SEG_J-029	ALIGNMENT SHEET
TE-MTR-61_023	MERRIMACK METER STATION
TE-SEG_J_HDD-001	HDD PLAN & PROFILE

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-028	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM jdonofrio

PROTECTION EASEMENT

LINE LIST

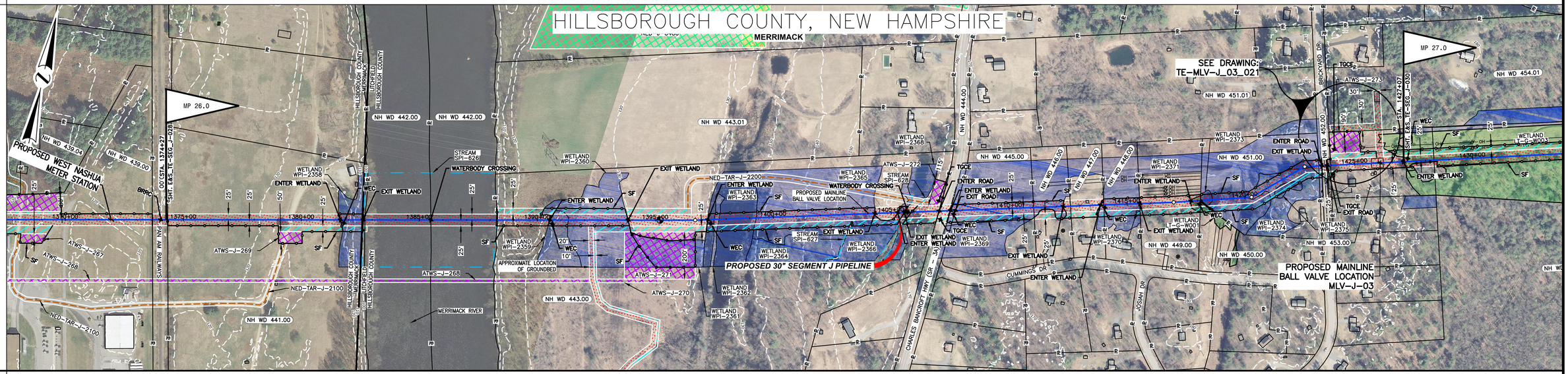
NH WD 440 | NH WD 441 | NH WD 442 | NH WD 442 | NH WD 443 | NH WD 444 | NH WD 445 | NH WD 446 | NH WD 447 | NH WD 448 | NH WD 449 | NH WD 451 | NH WD 452 | NH WD 453

1374+27 1374+33 1382+69 1385+49 1388+32 1407+03 1407+72 1411+04 1412+60 1414+02 1415+53 1418+11 1423+48 1423+98 1427+07

PIPELINE STATIONING

1374+33 PROPERTY LINE
1381+66 EDGE OF WETLAND
1382+59 MUNICIPAL LINE
1382+59 MUNICIPAL LINE
1382+62 EDGE OF STREAM
1382+62 EDGE OF WETLAND
1382+69 PROPERTY LINE
1385+49 PROPERTY LINE
1388+27 EDGE OF STREAM
1388+32 PROPERTY LINE
1388+59 ℄ OF BROOKHAVEN DR
1390+52 EDGE OF WETLAND
1391+32 EDGE OF WETLAND
1393+85 EDGE OF WETLAND
1396+68 P.I. = 21°05'5" LT.
1397+22 EDGE OF WETLAND
1397+49 EDGE OF WETLAND
1397+79 EDGE OF WETLAND
1399+28 EDGE OF WETLAND
1404+31 EDGE OF WETLAND
1405+28 EDGE OF WETLAND
1405+56 EDGE OF STREAM
1405+86 EDGE OF WETLAND
1407+03 PROPERTY LINE
1407+51 EDGE OF WETLAND
1407+72 PROPERTY LINE
1411+04 PROPERTY LINE
1411+62 UTILITY POLE 103' LT.
1411+65 UTILITY POLE 88' LT.
1412+29 EDGE OF WETLAND
1412+60 PROPERTY LINE
1413+87 EDGE OF WETLAND
1414+02 PROPERTY LINE
1415+53 PROPERTY LINE
1415+54 EDGE OF WETLAND
1415+66 UTILITY POLE 117' LT.
1415+67 UTILITY POLE 89' LT.
1416+07 UTILITY POLE 37' LT.
1416+45 UTILITY POLE 51' LT.
1416+68 UTILITY POLE 65' LT.
1416+98 P.I. = 45°30'14" LT.
1418+11 PROPERTY LINE
1418+12 EDGE OF WETLAND
1418+63 EDGE OF WETLAND
1420+08 EDGE OF WETLAND
1420+28 P.I. = 26°00'13" LT.
1422+68 EDGE OF WETLAND
1422+98 P.I. = 26°30'46" RT.
1423+46 EDGE OF WETLAND
1423+48 PROPERTY LINE
1423+65 EDGE OF POWERLINE
1423+65 EDGE OF POWERLINE
1423+84 EDGE OF WETLAND
1423+84 EDGE OF POWERLINE
1423+91 UTILITY POLE 139' RT.
1423+98 PROPERTY LINE
1425+34 UTILITY POLE 68' LT.
1425+39 UTILITY POLE 43' LT.
1427+07 EDGE OF WETLAND

ALIGNMENT STRIP MAP



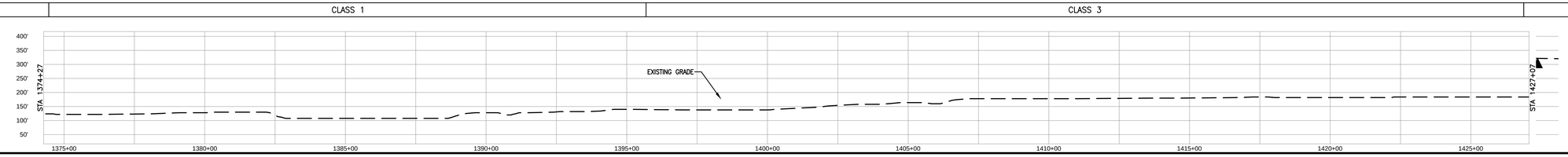
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION | CLASS 1 | CLASS 3

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

- PROPOSED PIPELINE
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- EXISTING FIBER OPTIC LINE
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- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-028	ALIGNMENT SHEET
TE-SEG_J-030	ALIGNMENT SHEET
TE-MLV-J_03_021	MAINLINE BALL VALVE MLV-J-03

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

E&S_TE-SEG_J-029 | 0

11/5/2015 3:53 PM 30WD_4SHI

PROTECTION EASEMENT

LINE LIST

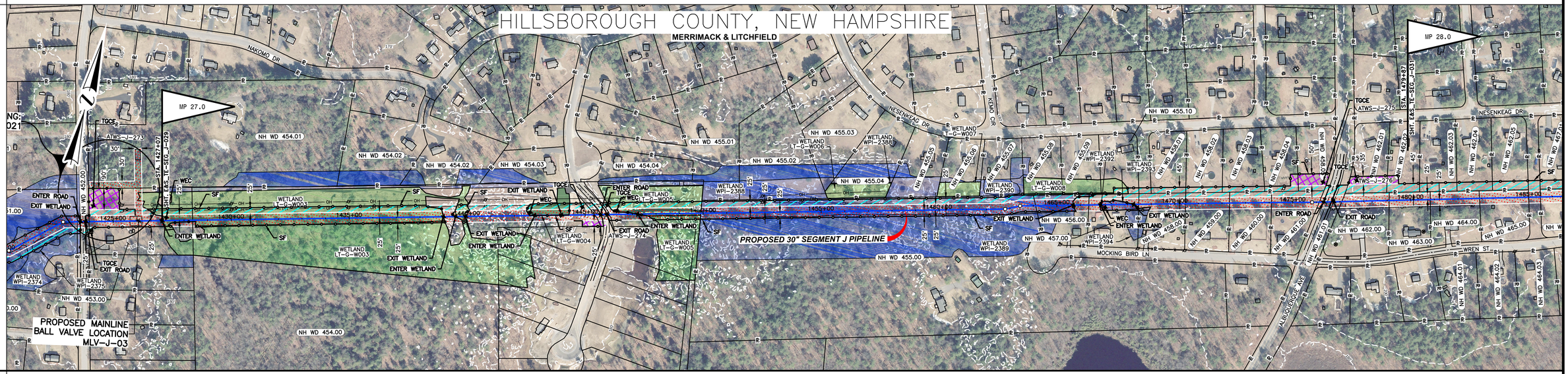
NH WD 453 | NH WD 454 | NH WD 454.1E | NH WD 454 | NH WD 455 | NH WD 456 | NH WD 457 | NH WD 458 | NH WD 459 | NH WD 460 | NH WD 461 | NH WD 461.1E | NH WD 462 | NH WD 463

1427+07 | 1428+36 | 1445+41 | 1446+03 | 1449+30 | 1464+10 | 1466+35 | 1468+47 | 1470+48 | 1472+32 | 1474+09 | 1476+12 | 1477+08 | 1479+87

PIPELINE STATIONING

1428+36 PROPERTY LINE
1430+02 UTILITY POLE 42' LT.
1430+02 UTILITY POLE 68' LT.
1434+98 UTILITY POLE 44' LT.
1434+98 UTILITY POLE 70' LT.
1439+00 EDGE OF WETLAND
1439+51 EDGE OF WETLAND
1439+93 EDGE OF WETLAND
1440+78 UTILITY POLE 44' LT.
1440+78 UTILITY POLE 70' LT.
1441+23 ℄ OF ALBOURDOISE AVE
1442+86 EDGE OF WETLAND
1444+00 EDGE OF WETLAND
1445+41 PROPERTY LINE
1445+65 EDGE OF PAVEMENT
1445+82 EDGE OF PAVEMENT
1446+03 PROPERTY LINE
1446+63 UTILITY POLE 43' LT.
1446+64 UTILITY POLE 69' LT.
1447+23 EDGE OF WETLAND
1449+90 EDGE OF WETLAND
1449+90 PROPERTY LINE
1452+52 UTILITY POLE 69' LT.
1452+53 UTILITY POLE 43' LT.
1464+10 PROPERTY LINE
1465+11 UTILITY POLE 166' RT.
1465+70 EDGE OF WETLAND
1466+34 EDGE OF WETLAND
1466+35 PROPERTY LINE
1466+85 EDGE OF WETLAND
1467+33 EDGE OF WETLAND
1468+25 EDGE OF WETLAND
1468+41 UTILITY POLE 197' RT.
1468+47 PROPERTY LINE
1470+46 UTILITY POLE 198' RT.
1470+46 PROPERTY LINE
1472+32 PROPERTY LINE
1474+09 PROPERTY LINE
1474+62 UTILITY POLE 59' LT.
1476+12 PROPERTY LINE
1476+31 EDGE OF PAVEMENT
1476+61 EDGE OF PAVEMENT
1476+64 EDGE OF PAVEMENT
1476+73 UTILITY POLE 30' RT.
1476+78 WELL 180' RT.
1477+08 PROPERTY LINE
1478+18 UTILITY POLE 29' RT.
1479+08 PROPERTY LINE

ALIGNMENT STRIP MAP



MATERIAL

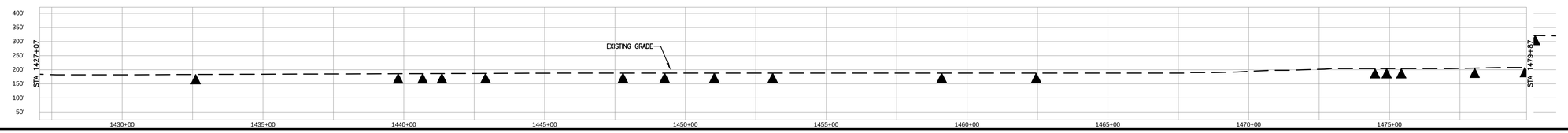
COATING

DESIGN FACTOR

CLASS LOCATION

CLASS 3

PROFILE



ENVIRONMENTAL

SOILS

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REFERENCE DRAWINGS

TE-SEG_J-029	ALIGNMENT SHEET
TE-SEG_J-031	ALIGNMENT SHEET

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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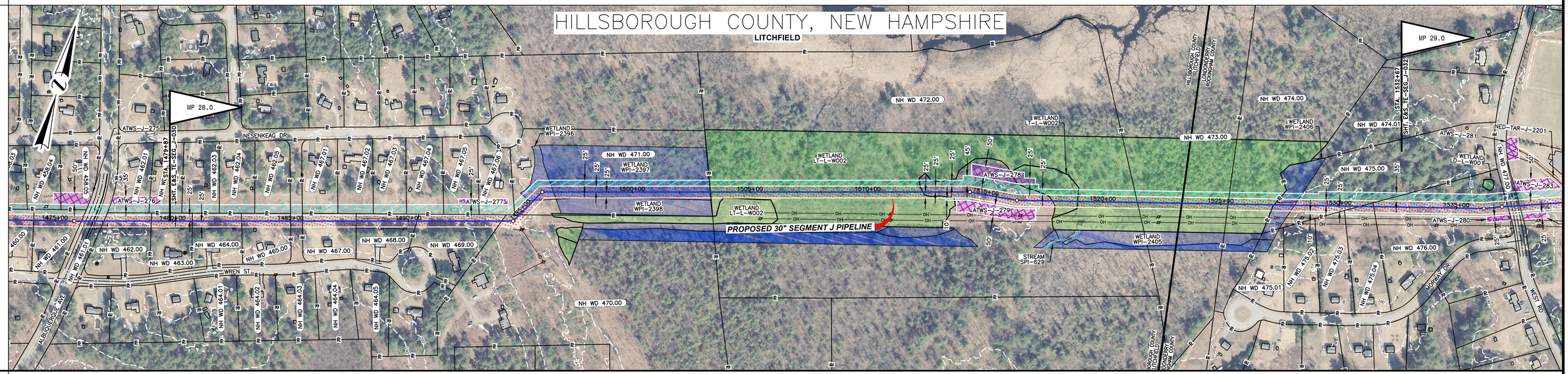
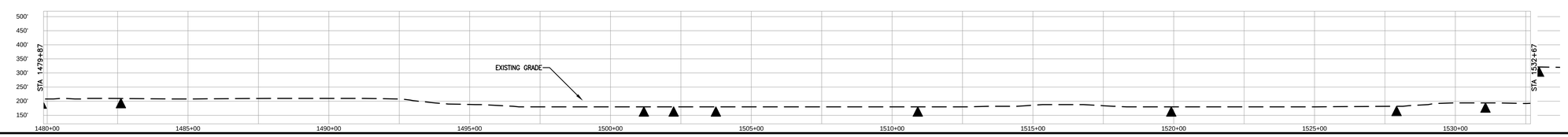
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

SCALE: 1 = 200' | PROJ. ID.:

E&S_TE-SEG_J-30 | 0

11/5/2015 3:53 PM 30inNL 45sht

PROTECTION EASEMENT	
LINE LIST	1479+87 · NH WD 463 · 1480+83 · NH WD 464 · 1482+91 · NH WD 465 · 1485+00 · XXX · 1485+50 · NH WD 467 · 1487+78 · NH WD 468 · 1490+35 · NH WD 469 · 1493+95 · NH WD 470 · 1494+80 · NH WD 471 · 1503+32 · NH WD 472 · 1521+46 · NH WD 473 · 1525+31 · NH WD 474 · 1527+28 · NH WD 475 · 1530+90 · NH WD 475.04 · 1531+49 · NH WD 476 · 1532+67
PIPELINE STATIONING	1480+42 UTILITY POLE 29' RT. 1480+51 WELL 135' RT. 1480+83 PROPERTY LINE 1482+63 UTILITY POLE 29' RT. 1482+91 PROPERTY LINE 1485+00 PROPERTY LINE 1485+50 PROPERTY LINE 1487+78 PROPERTY LINE 1489+84 UTILITY POLE 33' RT. 1490+43 UTILITY POLE 122' RT. 1490+35 PROPERTY LINE 1493+95 PROPERTY LINE 1494+43 PI = 45°00'00" LT. 1494+44 UTILITY POLE 52' RT. 1494+75 OVERHEAD POWER LINE 1494+80 PROPERTY LINE 1495+18 EDGE OF WETLAND 1496+18 PI = 45°00'00" RT. 1496+66 EDGE OF WETLAND 1502+35 ℄ OF WEST RD 1503+31 EDGE OF WETLAND 1503+32 PROPERTY LINE 1505+42 UTILITY POLE 88' RT. 1505+43 UTILITY POLE 113' RT. 1510+97 UTILITY POLE 120' RT. 1510+98 UTILITY POLE 94' RT. 1512+34 EDGE OF WETLAND 1516+32 PI = 10°00'00" RT. 1516+33 PI = 8°27'27" LT. 1516+50 UTILITY POLE 89' RT. 1516+51 UTILITY POLE 64' RT. 1517+86 EDGE OF WETLAND 1518+93 EDGE OF WETLAND 1521+46 PROPERTY LINE 1522+37 UTILITY POLE 60' RT. 1522+37 UTILITY POLE 84' RT. 1523+35 COUNTY LINE 1523+35 MUNICIPAL LINE 1523+35 MUNICIPAL LINE 1523+35 COUNTY LINE 1525+31 PROPERTY LINE 1527+26 EDGE OF WETLAND 1527+26 PROPERTY LINE 1528+13 EDGE OF WETLAND 1528+44 UTILITY POLE 79' RT. 1528+46 UTILITY POLE 53' RT. 1530+90 PROPERTY LINE 1531+49 PROPERTY LINE
ALIGNMENT STRIP MAP	
MATERIAL	
COATING	
DESIGN FACTOR	
CLASS LOCATION	CLASS 3 · CLASS 1 · CLASS 3
PROFILE	
ENVIRONMENTAL	
SOILS	

PROFILE LEGEND

SLOPE BREAKERS ◯

TRENCH PLUG ▲

NOTES

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LEGEND

- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

- PROPOSED PIPELINE
- EXISTING TENNESSEE GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OVERHEAD POWER LINE
- EXISTING FIBER OPTIC LINE
- PA HG3 400.00 — LINE LIST NUMBER
- R — PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-030	ALIGNMENT SHEET
TE-SEG_J-032	ALIGNMENT SHEET

TYPICALS

SCALE: 200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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

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PROJECT COORD:		DATE:	
OPER. APPR:		DATE:	

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

SCALE: 1 = 200' · PROJ. ID.:

E&S_TE-SEG_J-031 · 0

11/5/2015 3:53 PM 30inNL 45sht

PROTECTION EASEMENT	
LINE LIST	1532+67 · NH WD 476 · 1537+18 · NH WD 477 · 1537+69 · NH WD 478 · 1549+05 · NH WD 485 · 1557+96 · NH WD 481.01 · 1559+43 · NH WD 481 · 1571+47

PIPELINE STATIONING

1534+14 UTILITY POLE 49' RT.
1534+17 UTILITY POLE 74' RT.

1536+18 P.I. = 8°19'58" LT.

1536+48 PROPERTY LINE
1537+35 EDGE OF PAVEMENT
1537+61 EDGE OF PAVEMENT
1537+69 PROPERTY LINE
1537+84 UTILITY POLE 57' RT.
1538+43 UTILITY POLE 92' RT.

1539+74 P.I. = 9°07'11" RT.

1540+21 EDGE OF PAVEMENT
1540+59 EDGE OF PAVEMENT

1541+84 P.I. = 5°37'54" LT.

1542+01 WATER GATE 148' LT.
1543+57 UTILITY POLE 52' RT.
1543+70 UTILITY POLE 82' RT.

1543+98 P.I. = 12°01'57" RT.

1544+02 ELECTRIC LINE
1544+09 UTILITY POLE 111' RT.
1544+37 ELECTRIC LINE
1544+70 ELECTRIC LINE
1545+24 FENCE
1545+51 FENCE
1547+40 EDGE OF WETLAND
1547+86 EDGE OF STREAM
1547+86 EDGE OF WETLAND
1547+90 EDGE OF STREAM
1547+90 EDGE OF WETLAND
1548+53 EDGE OF WETLAND
1549+05 PROPERTY LINE
1550+70 OVERHEAD POWER LINE
1550+71 UTILITY POLE 141' LT.
1550+75 OVERHEAD POWER LINE
1550+84 OVERHEAD POWER LINE
1551+21 OVERHEAD POWER LINE
1551+25 UTILITY POLE 115' LT.
1551+28 OVERHEAD POWER LINE
1551+32 OVERHEAD POWER LINE
1556+85 ℄ OF ELMWOOD RD
1557+96 PROPERTY LINE

1558+22 P.I. = 45°00'00" LT.

1559+43 WALL
1559+43 PROPERTY LINE
1559+45 WALL
1559+46 WALL

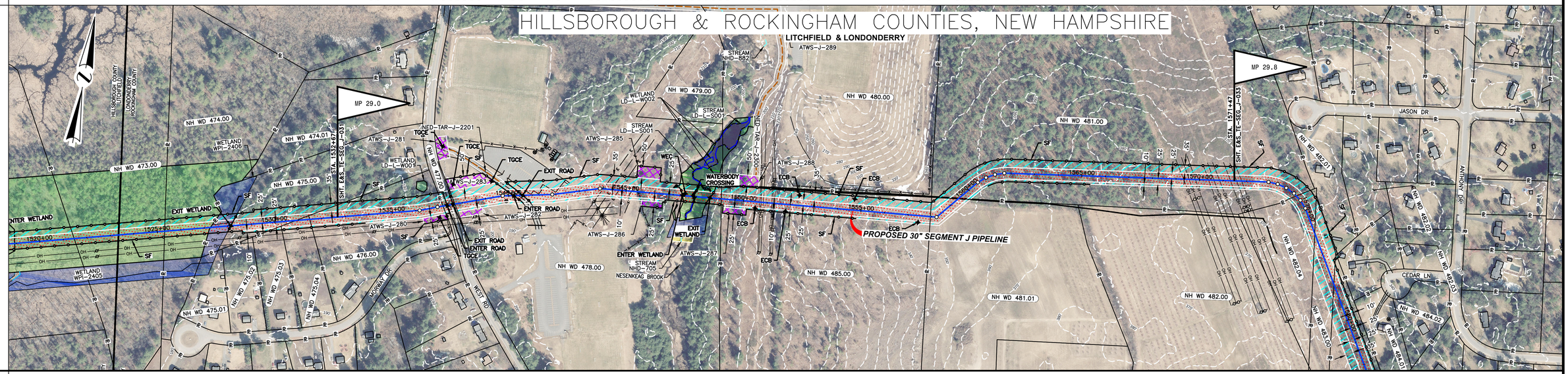
1560+91 P.I. = 10°30'39" RT.

1561+31 OVERHEAD POWER LINE

1561+53 P.I. = 10°30'39" RT.

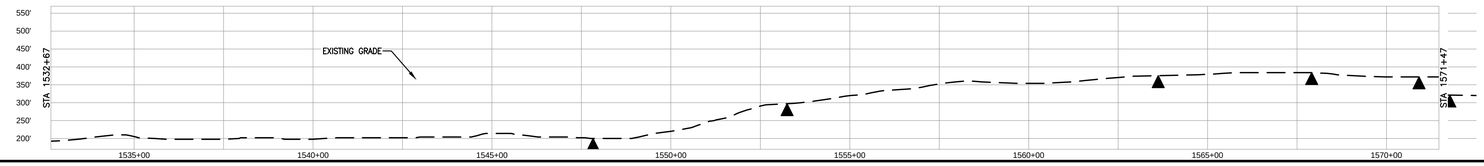
1561+73 OVERHEAD POWER LINE
1562+32 ℄ OF DAN HILL RD
1569+32 OVERHEAD POWER LINE
1569+56 OVERHEAD POWER LINE
1569+82 OVERHEAD POWER LINE
1569+82 UTILITY POLE 84' RT.
1569+99 UTILITY POLE 47' RT.
1570+34 OVERHEAD POWER LINE
1570+61 OVERHEAD POWER LINE
1570+85 OVERHEAD POWER LINE
1571+31 OVERHEAD POWER LINE

ALIGNMENT STRIP MAP



MATERIAL	
COATING	
DESIGN FACTOR	
CLASS LOCATION	CLASS 3 · CLASS 2 · CLASS 1

PROFILE



ENVIRONMENTAL	
SOILS	

PROFILE LEGEND
SLOPE BREAKERS ◯
TRENCH PLUG ▲

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- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-031	ALIGNMENT SHEET
TE-SEG_J-033	ALIGNMENT SHEET

TYPICALS

SCALE
200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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

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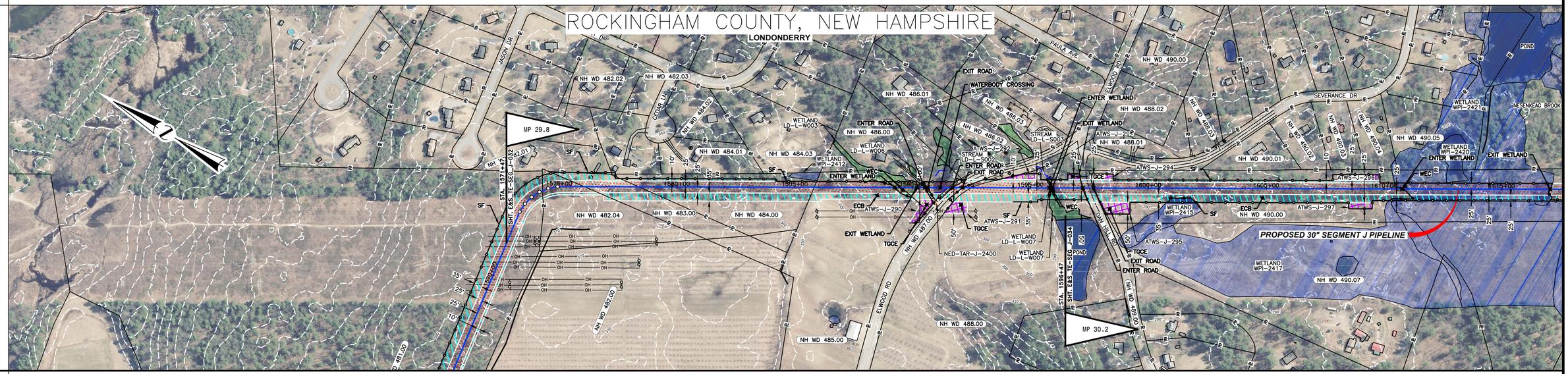
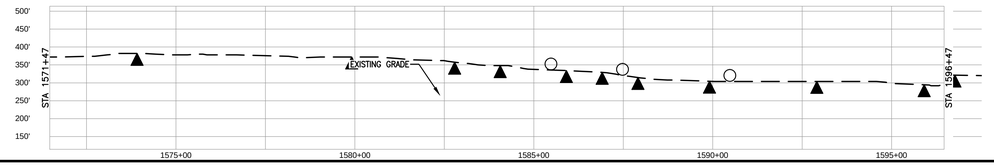
Tennessee Gas Pipeline Company, L.L.C.
a Kinder Morgan company

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH & ROCKINGHAM COUNTIES, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-032	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEMP

PROTECTION EASEMENT	
LINE LIST	NH WD 481 (1571+47 – 1574+27) · NH WD 482.04 (1574+27 – 1578+06) · NH WD 483.00 (1578+06 – 1578+37) · NH WD 484 (1578+37 – 1585+82) · NH WD 485 (1585+82 – 1588+52) · NH WD 486 (1588+52 – 1591+50) · NH WD 487 (1591+50 – 1592+50) · NH WD 488 (1592+50 – 1596+47)
PIPELINE STATIONING	1571+57 OVERHEAD POWER LINE 1571+78 OVERHEAD POWER LINE 1571+93 UTILITY POLE 112' RT. 1572+04 UTILITY POLE 52' RT. 1572+10 UTILITY POLE 106' RT. 1572+16 UTILITY POLE 121' RT. 1572+33 P.I. = 11+15.00' Rt. 1572+53 P.I. = 11+15.00' Rt. 1572+73 P.I. = 11+15.00' Rt. 1573+13 P.I. = 11+15.00' Rt. 1573+27 PROPERTY LINE 1573+33 P.I. = 11+15.00' Rt. 1573+53 P.I. = 11+15.00' Rt. 1576+06 PROPERTY LINE 1578+37 PROPERTY LINE 1580+57 WELL 165' LT. 1585+82 PROPERTY LINE 1585+87 UTILITY POLE 101' RT. 1585+94 UTILITY POLE 127' RT. 1589+23 EDGE OF WETLAND 1589+52 PROPERTY LINE 1589+86 UTILITY POLE 186' RT. 1590+18 EDGE OF WETLAND 1590+51 EDGE OF PAVEMENT 1590+64 EDGE OF PAVEMENT 1590+80 EDGE OF STREAM 1591+13 UTILITY POLE 40' RT. 1591+48 EDGE OF STREAM 1591+50 PROPERTY LINE 1591+82 GUARD RAIL 1591+88 EDGE OF PAVEMENT 1592+11 EDGE OF PAVEMENT 1592+32 UTILITY POLE 9' LT. 1592+54 GUY WIRE 1592+88 UTILITY POLE 125' RT. 1592+98 UTILITY POLE 69' RT. 1593+16 UTILITY POLE 53' LT. 1593+94 WELL 149' LT. 1595+31 UTILITY POLE 142' LT. 1595+79 EDGE OF WETLAND 1595+92 EDGE OF WETLAND
ALIGNMENT STRIP MAP	
MATERIAL	
COATING	
DESIGN FACTOR	
CLASS LOCATION	CLASS 1 | CLASS 2
PROFILE	
ENVIRONMENTAL	
SOILS	

PROFILE LEGEND

SLOPE BREAKERS ◯

TRENCH PLUG ▲

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- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-032	ALIGNMENT SHEET
TE-SEG_J-034	ALIGNMENT SHEET

TYPICALS

SCALE: 200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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

AREA:	DIV.:
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Tennessee Gas Pipeline Company, L.L.C.
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NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
ROCKINGHAM COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-033	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEVIN

PROTECTION EASEMENT

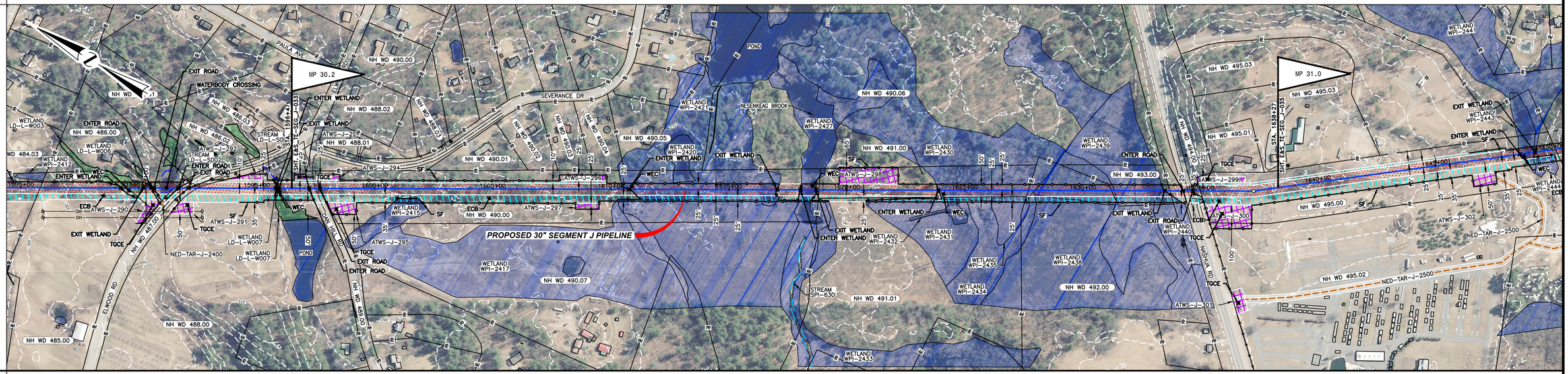
LINE LIST

NH WD 488	NH WD 489	NH WD 490	NH WD 491	NH WD 492.00	NH WD 493	NH WD 494	NH WD 495
1596+47	1597+21	1597+67	1618+81	1627+88	1631+20	1633+68	1634+97	1638+27

PIPELINE STATIONING

1597+21 PROPERTY LINE
1597+67 PROPERTY LINE
1599+29 ℄ OF NASHUA RD
1599+73 WELL 189' LT.
1610+76 EDGE OF WETLAND
1617+04 EDGE OF WETLAND
1618+03 EDGE OF WETLAND
1618+69 EDGE OF WETLAND
1618+81 PROPERTY LINE
1623+87 EDGE OF WETLAND
1627+88 PROPERTY LINE
1627+96 EDGE OF WETLAND
1631+20 PROPERTY LINE
1631+32 EDGE OF WETLAND
1632+91 UTILITY POLE 114' RT.
1632+91 UTILITY POLE 88' RT.
1633+34 EDGE OF WETLAND
1633+46 EDGE OF WETLAND
1633+88 PROPERTY LINE
1634+24 EDGE OF PAVEMENT
1634+65 EDGE OF PAVEMENT
1634+67 UTILITY POLE 51' LT.
1634+80 OVERHEAD POWER LINE
1634+97 PROPERTY LINE
1635+12 UTILITY POLE 122' RT.
1638+27 PI ~ ROUTE 28

ALIGNMENT STRIP MAP



MATERIAL

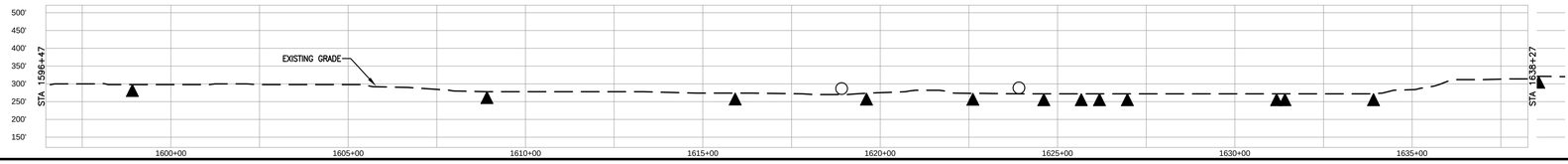
COATING

DESIGN FACTOR

CLASS LOCATION

CLASS 2	CLASS 1	CLASS 3

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-033	ALIGNMENT SHEET
TE-SEG_J-035	ALIGNMENT SHEET

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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ALIGNMENT SHEET
ROCKINGHAM COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
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OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEVIN

PROTECTION EASEMENT

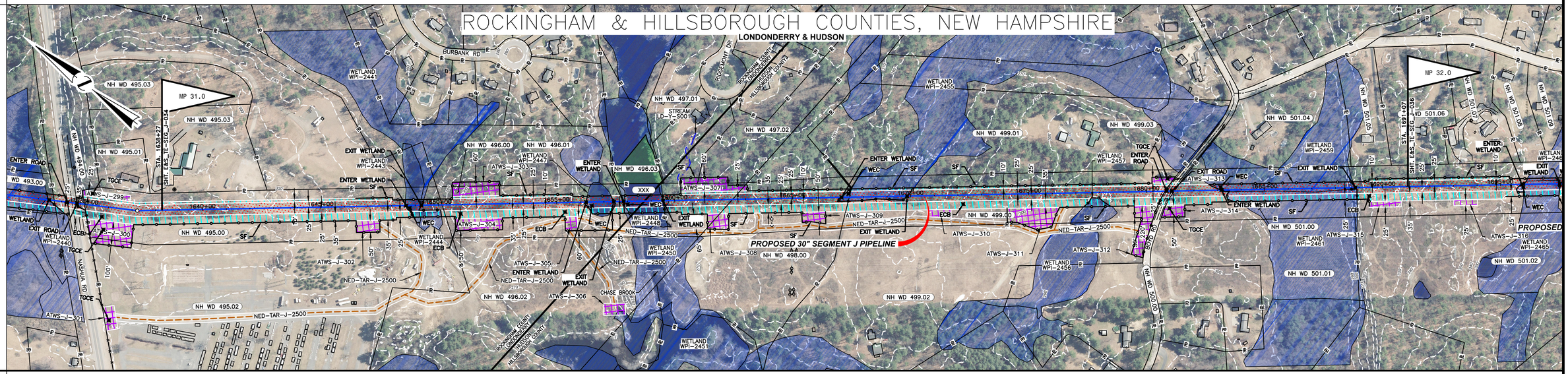
LINE LIST

1638+27	NH WD 495	1650+14	NH WD 496	1657+83	XXX	1659+76	NH WD 497	1662+45	NH WD 498.01	1667+40	NH WD 499	1680+79	NH WD 500	1681+16	NH WD 501	1691+07

PIPELINE STATIONING

1638+92 WELL 67' LT.
1645+73 ℄ OF BOYD RD
1648+92 EDGE OF WETLAND
1649+22 EDGE OF WETLAND
1649+27 EDGE OF WETLAND
1650+14 PROPERTY LINE
1656+25 EDGE OF WETLAND
1657+42 EDGE OF WETLAND
1657+83 EDGE OF WETLAND
1657+83 PROPERTY LINE
1658+72 COUNTY LINE
1658+72 MUNICIPAL LINE
1658+72 COUNTY LINE
1659+49 EDGE OF WETLAND
1659+76 PROPERTY LINE
1662+45 PROPERTY LINE
1664+10 UTILITY POLE 113' RT.
1664+10 UTILITY POLE 86' RT.
1667+07 EDGE OF WETLAND
1667+40 PROPERTY LINE
1669+85 EDGE OF WETLAND
1680+49 ℄ OF KENA RD
1680+64 UTILITY POLE 19' RT.
1680+79 PROPERTY LINE
1680+84 EDGE OF PAVEMENT
1680+91 UTILITY POLE 35' RT.
1681+16 PROPERTY LINE
1681+08 EDGE OF PAVEMENT
1682+15 UTILITY POLE 125' LT.
1683+18 EDGE OF WETLAND
1687+93 ℄ OF UNKNOWN RD
1688+84 EDGE OF WETLAND

ALIGNMENT STRIP MAP



PROTECTION EASEMENT

LINE LIST

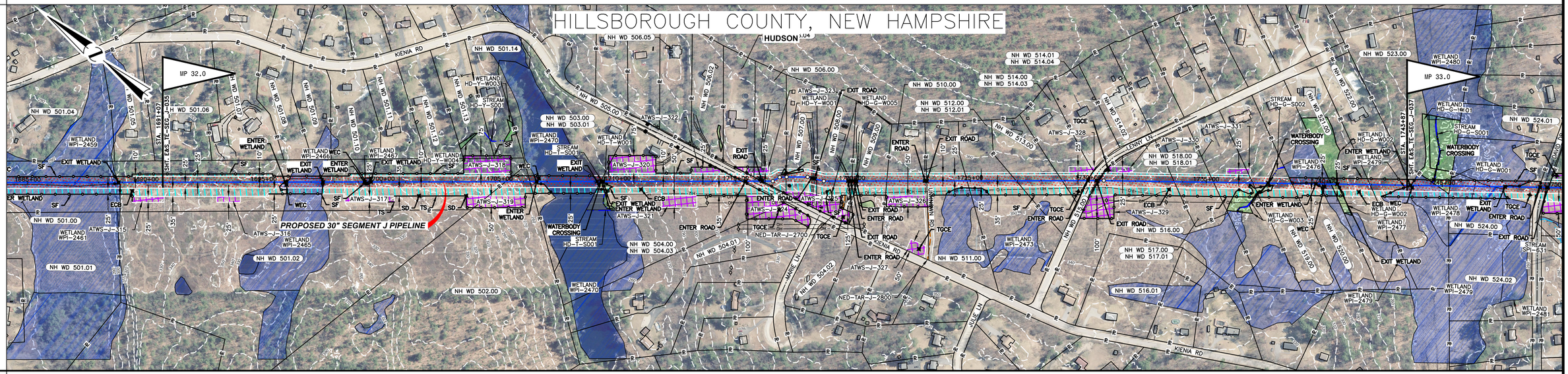
NH WD 501 | NH WD 502 | NH WD 503.00 / NH WD 503.01 | NH WD 504.00 / NH WD 504.03 | NH WD 505 | NH WD 506 | NH WD 507 | NH WD 508 | NH WD 509 | NH WD 510.00 | NH WD 511 | NH WD 512.00 / NH WD 512.01 | NH WD 513 | NH WD 514.00 / NH WD 514.03 | NH WD 515 | NH WD 516 | NH WD 517.00 / NH WD 517.01 | NH WD 518.00 / NH WD 518.01 | NH WD 519 | NH WD 520 | NH WD 521 | NH WD 522

1691+07 | 1705+25 | 1706+28 | 1709+27 | 1715+28 | 1716+11 | 1717+17 | 1718+49 | 1719+98 | 1721+46 | 1723+15 | 1724+86 | 1726+95 | 1728+89 | 1729+98 / 1730+34 | 1730+46 | 1730+78 / 1730+79 | 1733+31 / 1733+33 / 1733+64 | 1735+30 | 1738+62 / 1738+97 | 1737+59 / 1737+60 / 1737+63 | 1738+63 | 1739+64 | 1740+29 / 1740+29 / 1740+55 | 1741+94 | 1743+65 | 1745+87

PIPELINE STATIONING

1694+97 ℄ OF LENNY LN | 1695+90 EDGE OF WETLAND | 1697+50 EDGE OF WETLAND | 1699+27 EDGE OF WETLAND / 1699+54 EDGE OF WETLAND | 1701+18 SEPTIC BOX 167' LT. | 1705+25 PROPERTY LINE | 1706+28 PROPERTY LINE / 1706+56 EDGE OF WETLAND | 1709+12 EDGE OF WETLAND / 1709+27 EDGE OF STREAM / 1709+27 PROPERTY LINE / 1709+30 EDGE OF STREAM / 1709+30 EDGE OF WETLAND / 1709+57 EDGE OF WETLAND | 1712+16 WATER GATE 115' LT. | 1713+06 UTILITY POLE 169' LT. / 1714+06 UTILITY POLE 55' RT. / 1714+79 UTILITY POLE 92' RT. / 1714+31 ℄ OF DAVID DR / 1714+45 UTILITY POLE 80' LT. | 1715+11 UTILITY POLE 184' RT. / 1715+28 PROPERTY LINE / 1715+41 EDGE OF PAVEMENT / 1716+11 EDGE OF PAVEMENT / 1716+11 PROPERTY LINE / 1716+36 OVERHEAD POWER LINE **D18487 PI = 26+27.76' LT.** **D18487 PI = 26+27.76' LT.** / 1717+17 PROPERTY LINE **D17318 PI = 2+00.07' RT.** **D17318 PI = 2+00.07' RT.** / **D18408 PI = 14+02.36' RT.** **D18408 PI = 14+02.36' RT.** | 1718+27 EDGE OF PAVEMENT / 1718+27 PROPERTY LINE / 1718+45 UTILITY POLE 43' LT. / 1718+49 PROPERTY LINE / **D18479 PI = 14+14.31' LT.** **D18479 PI = 14+14.31' LT.** / 1719+41 WELL 15' LT. / 1719+53 UTILITY POLE 64' RT. / 1719+54 UTILITY POLE 88' RT. / 1719+56 UTILITY POLE 80' RT. / 1719+94 EDGE OF PAVEMENT / 1719+98 PROPERTY LINE / 1720+06 EDGE OF PAVEMENT / 1720+17 EDGE OF PAVEMENT / 1721+46 PROPERTY LINE / 1723+15 PROPERTY LINE | 1724+86 PROPERTY LINE | 1726+95 PROPERTY LINE | 1728+89 PROPERTY LINE | 1729+98 PROPERTY LINE / 1730+34 EDGE OF PAVEMENT / 1730+40 PROPERTY LINE / 1730+46 ℄ OF DITCH **D18479 PI = 14+14.31' LT.** **D18479 PI = 14+14.31' LT.** / 1730+78 UTILITY POLE 153' RT. / 1730+79 UTILITY POLE 27' RT. | 1733+31 UTILITY POLE 87' RT. / 1733+33 UTILITY POLE 82' RT. / 1733+64 PROPERTY LINE | 1735+30 PROPERTY LINE | 1738+62 ℄ OF GRIFFIN RD / 1738+97 PROPERTY LINE | 1737+59 ℄ OF DITCH / 1737+60 EDGE OF STREAM / 1737+63 EDGE OF STREAM | 1738+63 PROPERTY LINE | 1739+64 EDGE OF WETLAND | 1740+29 EDGE OF WETLAND / 1740+29 PROPERTY LINE / 1740+55 EDGE OF WETLAND | 1741+94 PROPERTY LINE | 1743+65 EDGE OF WETLAND

ALIGNMENT STRIP MAP



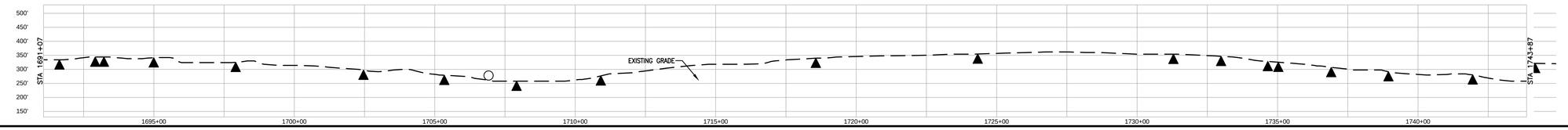
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION | CLASS 3

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

NOTES

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LEGEND

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

REFERENCE DRAWINGS

TE-SEG_J-035	ALIGNMENT SHEET
TE-SEG_J-037	ALIGNMENT SHEET

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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
DRAFT. COORD: HMM	DATE: 01-12-15

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-036	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM jdaugherty

PROTECTION EASEMENT

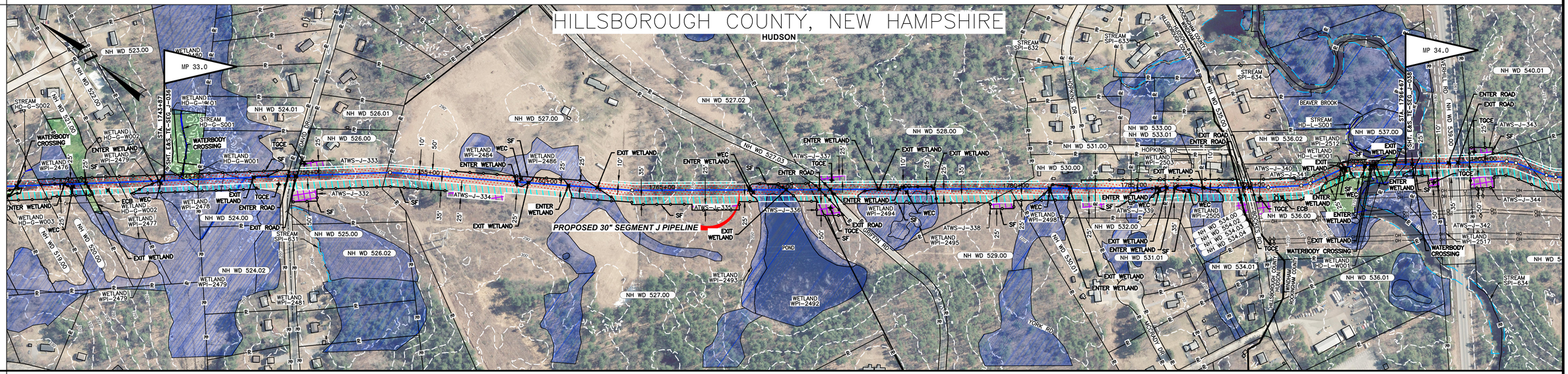
LINE LIST

1743+87 | NH WD 522 | 1744+78 | NH WD 523 | 1745+33 | NH WD 524 | 1749+10 | NH WD 525 | 1749+51 | NH WD 526 | 1753+39 | NH WD 527 | 1771+67 | NH WD 527.03 | 1772+12 | NH WD 528 | 1779+91 | NH WD 530 | 1783+36 | NH WD 531 | 1784+88 | NH WD 532 | 1788+33 | NH WD 533.00 / NH WD 533.01 | 1787+90 | NH WD 534.00 / NH WD 534.00 / NH WD 534.03 / NH WD 534.04 | 1789+60 | NH WD 535 | 1790+00 | NH WD 536 | 1796+67

PIPELINE STATIONING

1744+78 EDGE OF WETLAND
1745+13 EDGE OF WETLAND
1745+33 PROPERTY LINE
1746+37 EDGE OF WETLAND
1747+13 EDGE OF WETLAND
1747+66 EDGE OF WETLAND
1749+10 PROPERTY LINE
1749+51 PROPERTY LINE
1753+39 PROPERTY LINE
DEFLECTION PI = 8°18'22" LT.
1754+63 ℄ OF BOOKES RD
1758+81 EDGE OF WETLAND
1759+32 EDGE OF WETLAND
1761+03 EDGE OF WETLAND
1762+25 EDGE OF WETLAND
1763+39 ℄ OF HAVERHILL RD
DEFLECTION PI = 4°29'31" LT.
1768+70 EDGE OF WETLAND
1770+25 EDGE OF WETLAND
1771+23 WALL
1771+67 PROPERTY LINE
1772+12 PROPERTY LINE
1774+18 EDGE OF WETLAND
1775+05 EDGE OF WETLAND
1776+50 EDGE OF WETLAND
1779+91 PROPERTY LINE
1780+79 ℄ OF BRIGLE BRIDGE RD
1782+28 EDGE OF WETLAND
1783+36 PROPERTY LINE
1784+88 PROPERTY LINE
1785+96 EDGE OF WETLAND
1786+14 UTILITY POLE 142' LT.
1786+30 EDGE OF WETLAND
1786+39 EDGE OF WETLAND
1786+68 SEPTIC BOX 43' LT.
1786+75 EDGE OF WETLAND
1787+35 SEPTIC BOX 49' LT.
1787+65 UTILITY POLE 140' LT.
1787+90 PROPERTY LINE
1788+93 EDGE OF WETLAND
1788+98 EDGE OF PAVEMENT
1788+99 EXISTING STRUCTURE
1789+43 COUNTY LINE
1789+43 MUNICIPAL LINE
1789+43 MUNICIPAL LINE
1789+43 COUNTY LINE
1789+60 PROPERTY LINE
1789+66 EDGE OF PAVEMENT
1789+72 EDGE OF PAVEMENT
1789+79 UTILITY POLE 149' RT.
1789+90 EDGE OF PAVEMENT
1790+00 PROPERTY LINE
DEFLECTION PI = 11°11'42" RT.
1790+93 UTILITY POLE 156' RT.
1790+94 UTILITY POLE 57' RT.
1791+08 UTILITY POLE 57' RT.
DEFLECTION PI = 20°42'38" RT.
1791+98 UTILITY POLE 150' RT.
1792+23 UTILITY POLE 141' RT.
DEFLECTION PI = 105°45'11" LT.
1793+41 EDGE OF WETLAND
1793+93 EDGE OF WETLAND
DEFLECTION PI = 11°11'42" RT.
1794+08 EDGE OF WETLAND
1794+85 EDGE OF WETLAND
1795+17 EDGE OF STREAM
1795+35 EDGE OF STREAM
1795+45 EDGE OF WETLAND
1796+21 EDGE OF WETLAND
1796+65 EDGE OF STREAM

ALIGNMENT STRIP MAP



MATERIAL

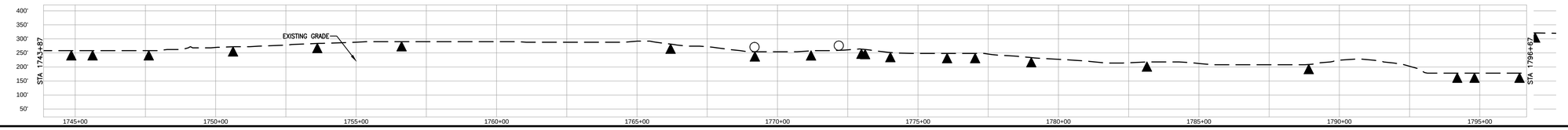
COATING

DESIGN FACTOR

CLASS LOCATION

CLASS 3

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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LEGEND

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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
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- POTENTIAL STAGING AREA

(LIMITS OF DISTURBANCE)

- PROPOSED PIPELINE
- EXISTING TENNESSEE GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OVERHEAD POWER LINE
- EXISTING FIBER OPTIC LINE
- PA HG3 400.00 — LINE LIST NUMBER
- R — PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (PUBLIC)
- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-036	ALIGNMENT SHEET
TE-SEG_J-038	ALIGNMENT SHEET

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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 30" PIPELINE
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EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-037	0
OPER. APPR:	DATE:		

11/5/2015 3:55 PM jdeschenes

PROTECTION EASEMENT

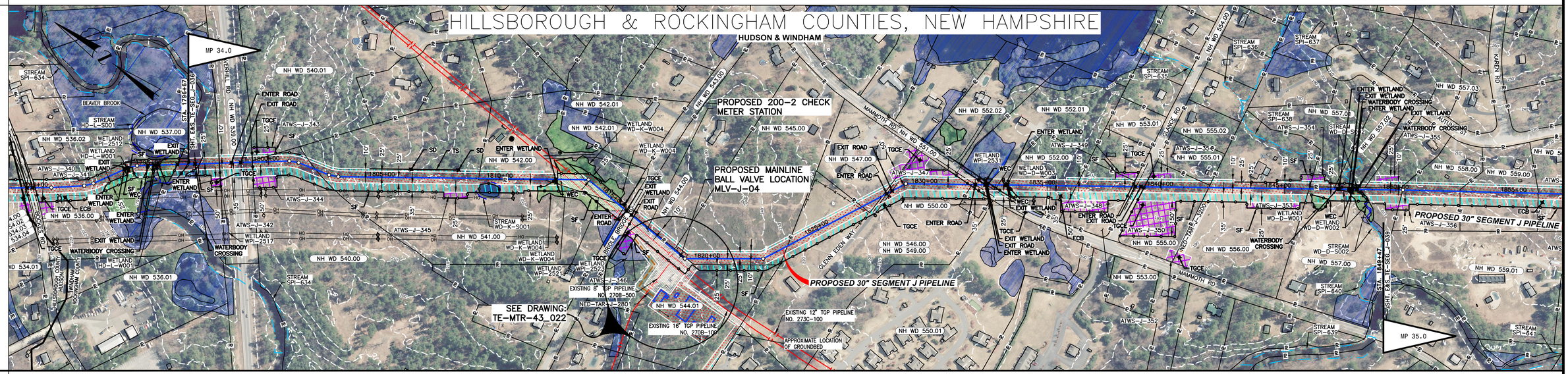
LINE LIST

1796+67	NH WD 536	1796+71	NH WD 537	1797+99	NH WD 538	1799+39	NH WD 540	1802+14	NH WD 541	1809+10	NH WD 542	1815+37	NH WD 541	1815+67	NH WD 543	1816+23	NH WD 544.01	1819+13	NH WD 545	1823+54	NH WD 546.00 / NH WD 549.00	1827+11	NH WD 547	1828+08	NH WD 546.00 / NH WD 549.00	1831+90	NH WD 551	1832+84	NH WD 552.01	1833+12	NH WD 552	1836+44	NH WD 553	1838+81	NH WD 554	1839+33	NH WD 555	1842+06	NH WD 556	1846+31	NH WD 557	1849+47

PIPELINE STATIONING

1796+71 PROPERTY LINE
1797+15 ℄ OF MAMMOTH RD
1797+15 EDGE OF STREAM
1797+99 PROPERTY LINE
1798+49 EDGE OF PAVEMENT
1798+90 EDGE OF PAVEMENT
1799+10 UTILITY POLE 24' LT.
1799+30 OVERHEAD POWER LINE
1799+39 PROPERTY LINE
1799+70 UTILITY POLE 142' RT.
1799+71 UTILITY POLE 118' RT.
1799+80 UTILITY POLE 119' RT.
1799+91 UTILITY POLE 143' RT.
1800+96 P.I. = 11°18'44" RT.
1801+34 PROPERTY LINE
1802+75 P.I. = 10°33'05" LT.
1803+15 P.I. = 10°33'05" LT.
1803+84 ℄ OF GLANCE RD
1804+79 UTILITY POLE 171' RT.
1804+84 UTILITY POLE 156' RT.
1804+84 UTILITY POLE 61' RT.
1804+84 UTILITY POLE 82' RT.
1804+87 UTILITY POLE 82' RT.
1809+10 PROPERTY LINE
1810+45 WELL 168' LT.
1810+47 WELL 173' LT.
1810+49 WELL 168' LT.
1810+55 WELL 171' LT.
1810+58 UTILITY POLE 82' RT.
1810+59 UTILITY POLE 82' RT.
1810+96 UTILITY POLE 82' RT.
1810+97 UTILITY POLE 158' RT.
1810+98 UTILITY POLE 173' RT.
1812+37 EDGE OF WETLAND
1812+54 WELL 174' LT.
1812+54 EDGE OF WETLAND
1812+97 ℄ OF EXISTING TGP PIPELINE
1813+36 ℄ OF EXISTING TGP PIPELINE
1813+58 P.I. = 34°56'54" RT.
1814+13 EDGE OF WETLAND
1815+37 PROPERTY LINE
1815+67 PROPERTY LINE
1815+78 GUARD RAIL
1815+87 EDGE OF WETLAND
1815+87 EDGE OF PAVEMENT
1816+23 PROPERTY LINE
1816+05 P.I. = 30°16'45" LT.
1819+13 PROPERTY LINE
1822+37 P.I. = 27°47'35" LT.
1823+54 PROPERTY LINE
1824+66 ℄ OF WINTER ST
1827+00 FENCE
1827+11 PROPERTY LINE
1827+43 UTILITY POLE 59' RT.
1827+43 UTILITY POLE 59' RT.
1828+29 EDGE OF PAVEMENT
1828+33 UTILITY POLE 18' RT.
1828+55 EDGE OF PAVEMENT
1828+72 UTILITY POLE 59' RT.
1828+79 UTILITY POLE 52' RT.
1828+81 UTILITY POLE 53' RT.
1828+26 P.I. = 45°14'45" LT.
1829+26 UTILITY POLE 45' LT.
1829+91 UTILITY POLE 187' LT.
1831+34 UTILITY POLE 44' LT.
1831+56 UTILITY POLE 80' LT.
1832+15 PROPERTY LINE
1832+15 EDGE OF PAVEMENT
1832+34 UTILITY POLE 28' LT.
1832+41 OVERHEAD POWER LINE
1832+57 EDGE OF WETLAND
1832+58 EDGE OF WETLAND
1832+62 EDGE OF PAVEMENT
1832+63 EDGE OF WETLAND
1832+66 EDGE OF WETLAND
1832+84 PROPERTY LINE
1833+02 UTILITY POLE 15' RT.
1833+12 PROPERTY LINE
1833+52 EDGE OF WETLAND
1834+62 UTILITY POLE 86' RT.
1834+63 UTILITY POLE 86' RT.
1834+66 UTILITY POLE 86' RT.
1835+20 EDGE OF PAVEMENT
1835+20 ℄ OF CASTLE HILL RD
1836+44 PROPERTY LINE
1838+81 PROPERTY LINE
1839+33 PROPERTY LINE
1842+06 PROPERTY LINE
1846+31 PROPERTY LINE
1847+43 EDGE OF STREAM
1847+59 EDGE OF WETLAND
1848+08 EDGE OF STREAM
1848+08 EDGE OF WETLAND
1848+15 EDGE OF WETLAND
1848+34 EDGE OF STREAM
1848+34 EDGE OF WETLAND
1848+38 EDGE OF STREAM

ALIGNMENT STRIP MAP



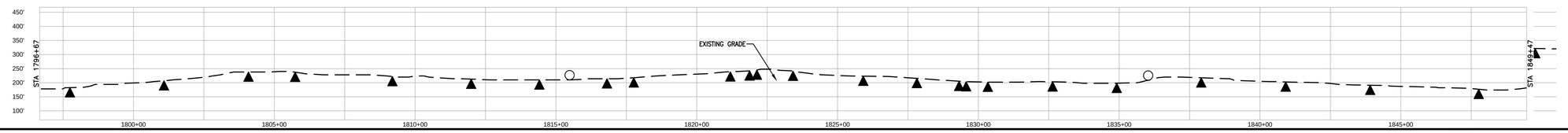
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION — CLASS 3

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND
- SLOPE BREAKERS ◯
- TRENCH PLUG ▲

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- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-037	ALIGNMENT SHEET
TE-SEG_J-039	ALIGNMENT SHEET
TE-MTR-43_022	200-2 CHECK METER STATION

TYPICALS

SCALE: 200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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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DESIGN COORD:		DATE:	
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Tennessee Gas Pipeline Company, L.L.C.
a Kinder Morgan company

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH & ROCKINGHAM COUNTIES, NEW HAMPSHIRE

PROJ. ID.:

SCALE: 1 = 200'

E&S_TE-SEG_J-038 | 0

11/5/2015 3:53 PM 350ML 45M

PROTECTION EASEMENT	
LINE LIST	1849+47 · NH WD 557 · 1850+28 · NH WD 558 · 1852+72 · NH WD 559 · 1856+04 · NH WD 560 · 1857+91 · NH WD 561 · 1859+67 · NH WD 562 · 1860+20 · NH WD 563 · 1863+12 · NH WD 564 · 1870+34 · NH WD 565 · 1870+84 · NH WD 566 · 1871+05 · NH WD 567 · 1873+25 · NH WD 568 · 1874+29 · NH WD 569 · 1875+48 · NH WD 570 · 1877+79 · NH WD 571 · 1887+49 · NH WD 572 · 1888+25 · NH WD 573 · 1889+76 · NH WD 574 · 1891+38 · NH WD 575 · 1894+30 · NH WD 576 · 1900+27 · NH WD 577 · 1902+27
PIPELINE STATIONING	1850+29 PROPERTY LINE 1850+30 PI = 0°42'41" RT. 1852+72 PROPERTY LINE 1856+04 PROPERTY LINE 1857+91 PROPERTY LINE 1859+67 PROPERTY LINE 1860+20 PROPERTY LINE 1863+12 PROPERTY LINE 1864+29 EDGE OF STREAM 1864+56 EDGE OF STREAM 1864+91 ℄ OF RYAN FARM RD 1867+43 PI = 5°29'36" RT. 1867+57 PI = 21°05'1" LT. 1870+10 PI = 4°57'54" LT. 1870+34 PROPERTY LINE 1870+40 UTILITY POLE 74' LT. 1870+45 OVERHEAD POWER LINE 1870+50 EDGE OF PAVEMENT 1870+53 UTILITY POLE 88' RT. 1870+73 EDGE OF PAVEMENT 1871+04 PROPERTY LINE 1871+05 PROPERTY LINE 1872+28 PI = 84°47'41" RT. 1872+53 OVERHEAD POWER LINE 1872+76 OVERHEAD POWER LINE 1873+13 OVERHEAD POWER LINE 1873+25 PROPERTY LINE 1873+66 OVERHEAD POWER LINE 1873+81 OVERHEAD POWER LINE 1874+06 OVERHEAD POWER LINE 1874+29 PROPERTY LINE 1875+48 PROPERTY LINE 1875+65 PI = 83°45'51" LT. 1877+79 PROPERTY LINE 1879+69 EDGE OF WETLAND 1879+74 EDGE OF WETLAND 1880+36 EDGE OF WETLAND 1886+80 EDGE OF WETLAND 1887+49 PROPERTY LINE 1887+78 EDGE OF WETLAND 1888+45 EDGE OF STREAM 1888+91 EDGE OF STREAM 1889+25 PROPERTY LINE 1889+76 PROPERTY LINE 1891+38 PROPERTY LINE 1894+30 PROPERTY LINE 1900+27 PROPERTY LINE 1901+48 EDGE OF WETLAND
ALIGNMENT STRIP MAP	ROCKINGHAM COUNTY, NEW HAMPSHIRE PROPOSED 30" SEGMENT J PIPELINE STA. 1849+47 E&S_TE-SEG_J-038 SHT. E&S_TE-SEG_J-040 STA. 1902+27 MP 35.0 MP 36.0 WINDHAM WATERBODY CROSSING ENTER WETLAND EXIT WETLAND EXIT ROAD ENTER ROAD TCCE ECB SF WEC WINTER ST ROCKINGHAM COUNTY WINDHAM PLUMB HILL ROAD EXT. COUNTY
MATERIAL	
COATING	
DESIGN FACTOR	
CLASS LOCATION	CLASS 3
PROFILE	450' 400' 350' 300' 250' 200' 150' 100' STA 1849+47 STA 1902+27 EXISTING GRADE 1850+00 1855+00 1860+00 1865+00 1870+00 1875+00 1880+00 1885+00 1890+00 1895+00 1900+00
ENVIRONMENTAL	
SOILS	

PROFILE LEGEND
- SLOPE BREAKERS
- TRENCH PLUG

NOTES

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LEGEND

- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- POTENTIAL STAGING AREA
- LIMITS OF DISTURBANCE
- PROPOSED PIPELINE
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- EXISTING FOREIGN PIPELINE
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- WETLAND (PHOTO INTERPRETED)
- WETLAND (DELINEATED)
- STREAM (DELINEATED)
- STREAM (PHOTO INTERPRETED)
- STREAM (PUBLIC)
- ACCESS ROAD
- FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-038	ALIGNMENT SHEET
TE-SEG_J-040	ALIGNMENT SHEET

TYPICALS

SCALE: 200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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	
DRAFT. COORD:	HMM	DATE: 01-12-15	
DESIGN COORD:		DATE:	
PROJECT COORD:		DATE:	
OPER. APPR:		DATE:	

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
ROCKINGHAM COUNTY, NEW HAMPSHIRE

E&S_TE-SEG_J-039 | 0

11/5/2015 3:53 PM jbowie, 45pw

PROTECTION EASEMENT

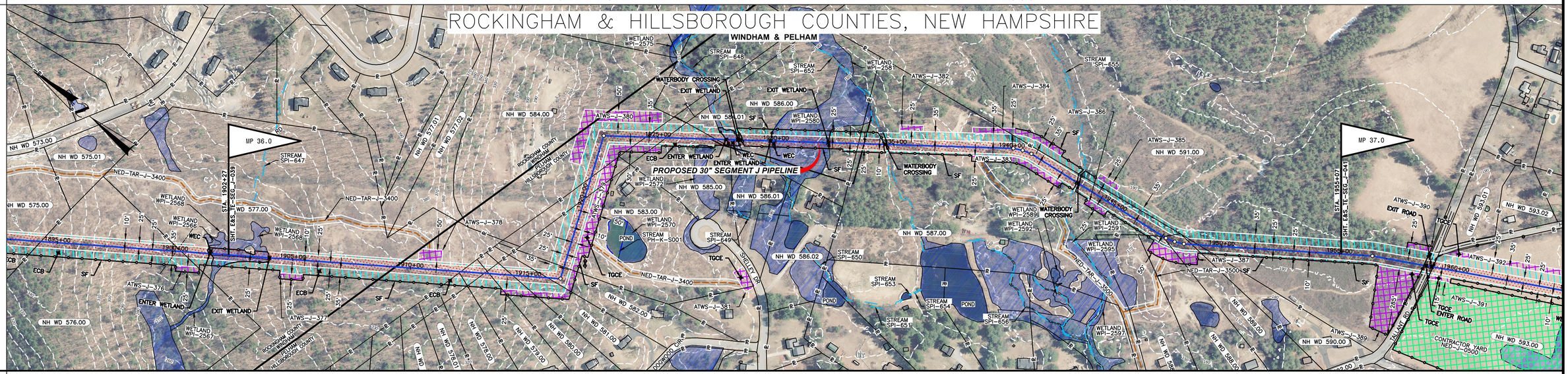
LINE LIST

1902+27 | NH WD 577 | 1912+14 | NH WD 579 | 1913+34 | NH WD 580 | 1914+33 | NH WD 581 | 1915+83 | NH WD 582 | 1916+89 | NH WD 583 | 1920+97 | NH WD 584 | 1924+46 | NH WD 585 | 1927+46 | NH WD 586 | 1933+50 | NH WD 587 | 1947+46 | NH WD 589 | 1948+72 | NH WD 590 | 1949+01 | NH WD 591 | 1955+07

PIPELINE STATIONING

1904+01 EDGE OF WETLAND
1909+36 COUNTY LINE
1909+36 MUNICIPAL LINE
1909+36 MUNICIPAL LINE
1909+36 COUNTY LINE
1912+14 PROPERTY LINE
1913+34 PROPERTY LINE
1914+33 PROPERTY LINE
1915+83 PROPERTY LINE
1916+37 PI = 77°14'56" LT.
1916+89 PROPERTY LINE
1917+19 UTILITY POLE 82' RT.
1917+50 UTILITY POLE 85' RT.
1917+38 UTILITY POLE 77' RT.
1917+39 UTILITY POLE 81' RT.
1920+97 PROPERTY LINE
1920+97 PI = 76°44'42" RT.
1923+59 ℄ OF TALLANT RD
1924+48 PROPERTY LINE
1927+46 PROPERTY LINE
1927+89 EDGE OF STREAM
1928+38 EDGE OF WETLAND
1928+57 EDGE OF STREAM
1929+77 EDGE OF WETLAND
1932+22 EDGE OF WETLAND
1933+50 PROPERTY LINE
1933+74 WALL
1934+57 EDGE OF STREAM
1934+70 EDGE OF STREAM
1940+08 PI = 10°05'56" RT.
1940+46 PI = 10°05'56" RT.
1940+98 PI = 10°05'56" RT.
1943+13 EDGE OF STREAM
1943+26 EDGE OF STREAM
1947+46 PROPERTY LINE
1947+58 PI = 8°27'24" LT.
1947+98 PI = 8°27'24" LT.
1948+38 PI = 8°27'24" LT.
1948+72 PROPERTY LINE
1949+01 PROPERTY LINE

ALIGNMENT STRIP MAP



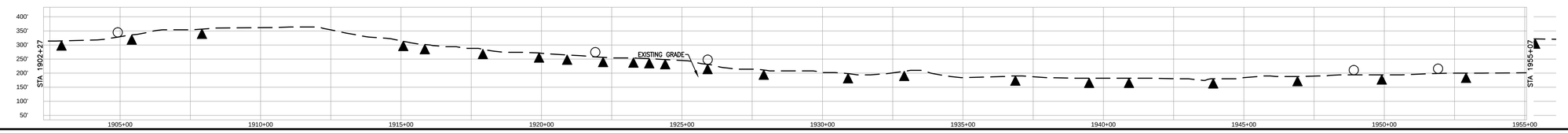
MATERIAL

COATING

DESIGN FACTOR

CLASS LOCATION | CLASS 3 | CLASS 2

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND
- SLOPE BREAKERS ○
- TRENCH PLUG ▲

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REFERENCE DRAWINGS

TE-SEG_J-039	ALIGNMENT SHEET
TE-SEG_J-041	ALIGNMENT SHEET

TYPICALS

SCALE: 200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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0		ISSUE FOR FERC	11/2015	HMM	HMM	

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

AREA:	DIV.:
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DESIGN COORD:	DATE:
PROJECT COORD:	DATE:
OPER. APPR:	DATE:

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTEROL PLAN
ALIGNMENT SHEET
ROCKINGHAM & HILLSBOROUGH COUNTIES, NEW HAMPSHIRE

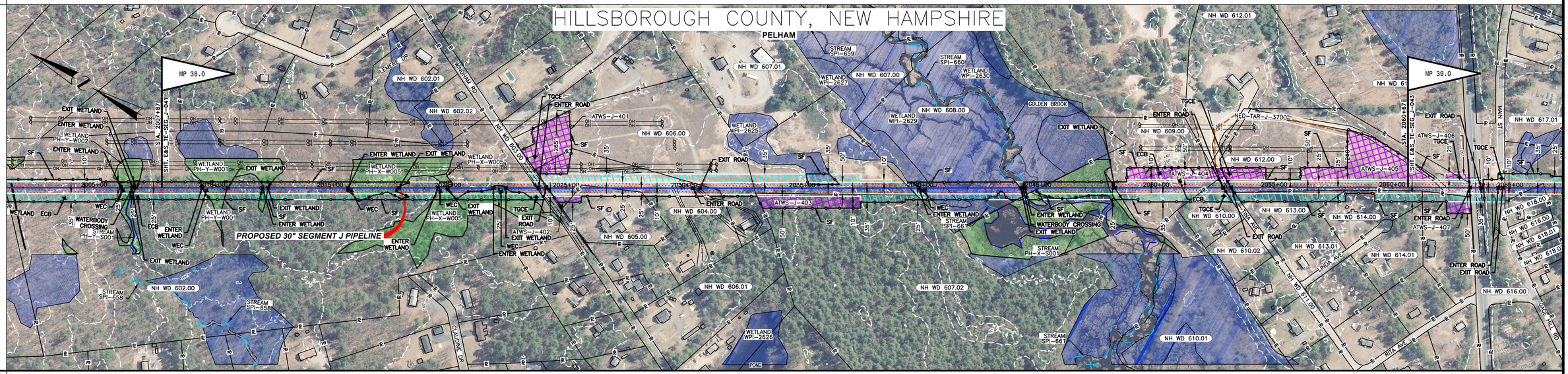
SCALE: 1 = 200' | PROJ. ID.:

E&S_TE-SEG_J-040 | 0

11/5/2015 3:53 PM STROUL_BROOKE_K

| | | |

PROTECTION EASEMENT	
LINE LIST	2007+87 · NH WD 602 · 2023+77 · NH WD 603 · 2024+22 · NH WD 604 · 2025+56 · NH WD 605 · 2028+74 · NH WD 604 · 2031+17 · NH WD 606 · 2032+97 · NH WD 607 · 2039+56 · NH WD 608 · 2045+05 · NH WD 609 · 2052+16 · NH WD 610 · 2052+84 · NH WD 611 · 2053+18 · NH WD 612 · 2060+67
PIPELINE STATIONING	2007+91 UTILITY POLE 111' LT. 2007+91 UTILITY POLE 94' LT. 2009+58 EDGE OF WETLAND 2010+33 UTILITY POLE 180' LT. 2010+36 EDGE OF WETLAND 2010+67 EDGE OF WETLAND 2012+13 EDGE OF WETLAND 2012+37 EDGE OF WETLAND 2014+24 UTILITY POLE 106' LT. 2014+24 UTILITY POLE 92' LT. 2015+01 UTILITY POLE 184' LT. 2015+01 UTILITY POLE 198' LT. 2015+76 EDGE OF WETLAND 2017+87 ℄ OF TINA AVE. 2017+91 EDGE OF WETLAND 2019+58 EDGE OF WETLAND 2019+66 EDGE OF WETLAND 2019+96 EDGE OF WETLAND 2020+82 UTILITY POLE 179' LT. 2020+83 UTILITY POLE 194' LT. 2021+27 UTILITY POLE 102' LT. 2021+29 UTILITY POLE 87' LT. 2021+92 EDGE OF WETLAND 2022+45 EDGE OF WETLAND 2022+93 UTILITY POLE 181' LT. 2023+77 PROPERTY LINE 2023+81 EDGE OF PAVEMENT 2023+88 UTILITY POLE 45' LT. 2024+16 EDGE OF PAVEMENT 2024+20 OVERHEAD POWER LINE 2024+45 PROPERTY LINE 2024+75 UTILITY POLE 77' RT. 2025+56 PROPERTY LINE 2025+64 UTILITY POLE 101' LT. 2026+55 UTILITY POLE 95' LT. 2026+74 PROPERTY LINE 2028+35 ℄ OF BRIDGE ST (SR – 2029+36 ℄ OF MAN ST – OLD G 2029+59 UTILITY POLE 184' LT. 2029+59 UTILITY POLE 198' LT. 2029+60 UTILITY POLE 189' LT. 2029+68 EDGE OF GRAVEL 2029+88 WELL 2' LT. 2030+36 EDGE OF GRAVEL 2030+67 EDGE OF GRAVEL 2031+13 UTILITY POLE 77' LT. 2031+14 UTILITY POLE 101' LT. 2031+35 PROPERTY POLE 76' LT. 2031+37 UTILITY POLE 101' LT. 2032+97 PROPERTY LINE 2039+56 PROPERTY LINE 2039+95 EDGE OF WETLAND 2041+12 EDGE OF WETLAND 2044+26 EDGE OF STREAM 2044+26 EDGE OF WETLAND 2044+35 EDGE OF STREAM 2044+45 EDGE OF WETLAND 2045+05 EDGE OF WETLAND 2045+05 PROPERTY LINE 2045+06 EDGE OF WETLAND 2048+01 EDGE OF WETLAND 2048+25 EDGE OF WETLAND 2049+35 UTILITY POLE 159' LT. 2049+35 UTILITY POLE 174' LT. 2050+67 UTILITY POLE 66' LT. 2050+67 UTILITY POLE 84' LT. 2052+16 PROPERTY LINE 2052+84 PROPERTY LINE 2053+13 UTILITY POLE 156' LT. 2053+13 UTILITY POLE 155' LT. 2053+14 UTILITY POLE 172' LT. 2053+14 UTILITY POLE 173' LT. 2053+18 PROPERTY LINE 2056+13 UTILITY POLE 63' LT. 2056+13 UTILITY POLE 79' LT. 2058+05 UTILITY POLE 153' LT. 2058+08 UTILITY POLE 167' LT.
ALIGNMENT STRIP MAP	HILLSBOROUGH COUNTY, NEW HAMPSHIRE
MATERIAL	
COATING	
DESIGN FACTOR	
CLASS LOCATION	CLASS 2 · CLASS 3 · CLASS 2 · CLASS 3
PROFILE	EXISTING GRADE; STA 2007+87; STA 2060+67; 400' 350' 300' 250' 200' 150' 100' 50' 0'; 2010+00 2015+00 2020+00 2025+00 2030+00 2035+00 2040+00 2045+00 2050+00 2055+00 2060+00
ENVIRONMENTAL	
SOILS	



PROFILE LEGEND

SLOPE BREAKERS ◯

TRENCH PLUG ▲

NOTES

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(LIMITS OF DISTURBANCE)

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- STREAM (PUBLIC)
- ACCESS ROAD
- X — FENCE LINE

REFERENCE DRAWINGS

TE-SEG_J-041	ALIGNMENT SHEET
TE-SEG_J-043	ALIGNMENT SHEET

TYPICALS

SCALE: 200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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
DRAFT. COORD: HMM	DATE: 01-12-15

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

NORTHEAST ENERGY DIRECT PROJECT
PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-042	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEVIN

PROTECTION EASEMENT

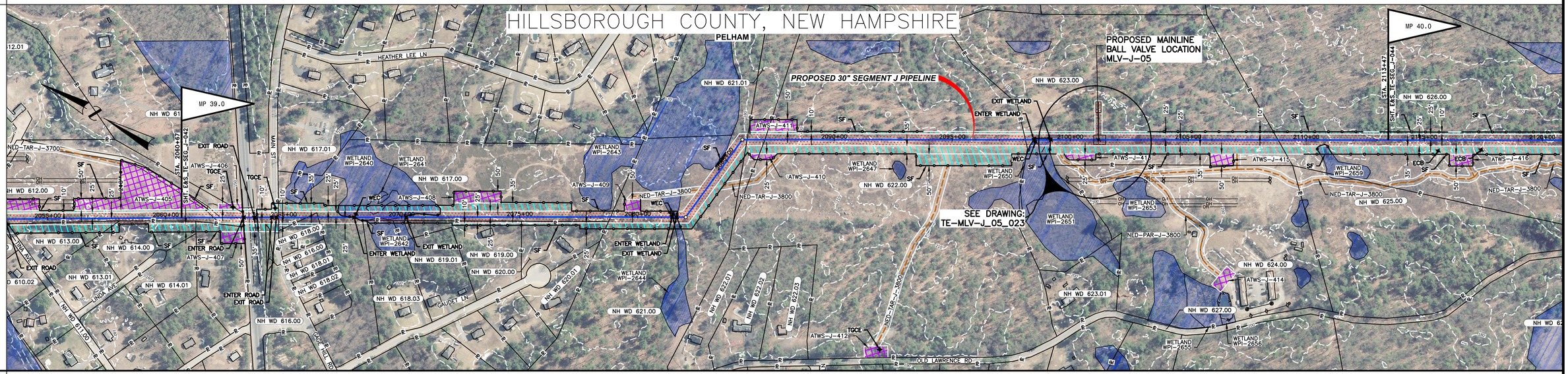
LINE LIST

2060+57	NH WD 612	2063+28	NH WD 616	2064+78	NH WD 617	2065+99	NH WD 618	2066+46	NH WD 617	2078+85	NH WD 621	2086+31	NH WD 621.01	2087+06	NH WD 622	2098+10	NH WD 623	2108+81	NH WD 626	2113+47

PIPELINE STATIONING

2062+03 EDGE OF GRAVEL
2063+28 PROPERTY LINE
2063+31 EDGE OF PAVEMENT
2063+77 EDGE OF PAVEMENT
2064+78 PROPERTY LINE
2065+99 PROPERTY LINE
2066+46 PROPERTY LINE
2067+99 EDGE OF WETLAND
2070+04 EDGE OF WETLAND
2070+19 EDGE OF WETLAND
2078+85 PROPERTY LINE
2081+46 EDGE OF WETLAND
2081+55 EDGE OF WETLAND
2082+04 P.I. = 32°26'07" RT.
2086+10 P.I. = 53°26'07" RT.
2086+31 PROPERTY LINE
2087+06 PROPERTY LINE
2098+10 PROPERTY LINE
2099+46 EDGE OF WETLAND
2099+17 EDGE OF WETLAND
2099+87 UTILITY POLE 162' RT.
2099+89 UTILITY POLE 177' RT.
2100+53 ℄ OF MHWF RD
2103+95 UTILITY POLE 175' RT.
2103+96 UTILITY POLE 181' RT.
2108+46 UTILITY POLE 177' RT.
2108+47 UTILITY POLE 163' RT.
2108+91 PROPERTY LINE

ALIGNMENT STRIP MAP



MATERIAL

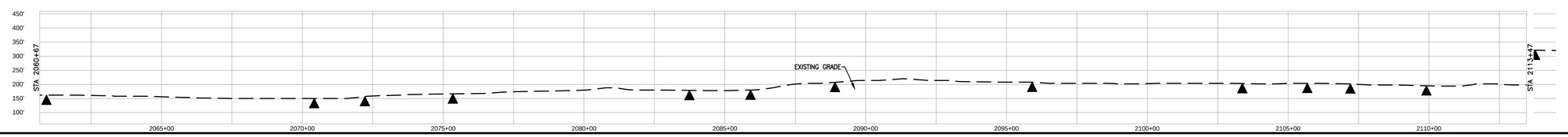
COATING

DESIGN FACTOR

CLASS LOCATION

CLASS 3	CLASS 2

PROFILE



ENVIRONMENTAL

SOILS

PROFILE LEGEND

SLOPE BREAKERS

TRENCH PLUG

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REFERENCE DRAWINGS

TE-SEG_J-042	ALIGNMENT SHEET
TE-SEG_J-044	ALIGNMENT SHEET
TE-MLV-J_05_023	MAINLINE BALL VALVE MLV-J-05

TYPICALS

SCALE

200 100 0 200 400

IMAGERY: APRIL/MAY 2015

REVISIONS

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SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
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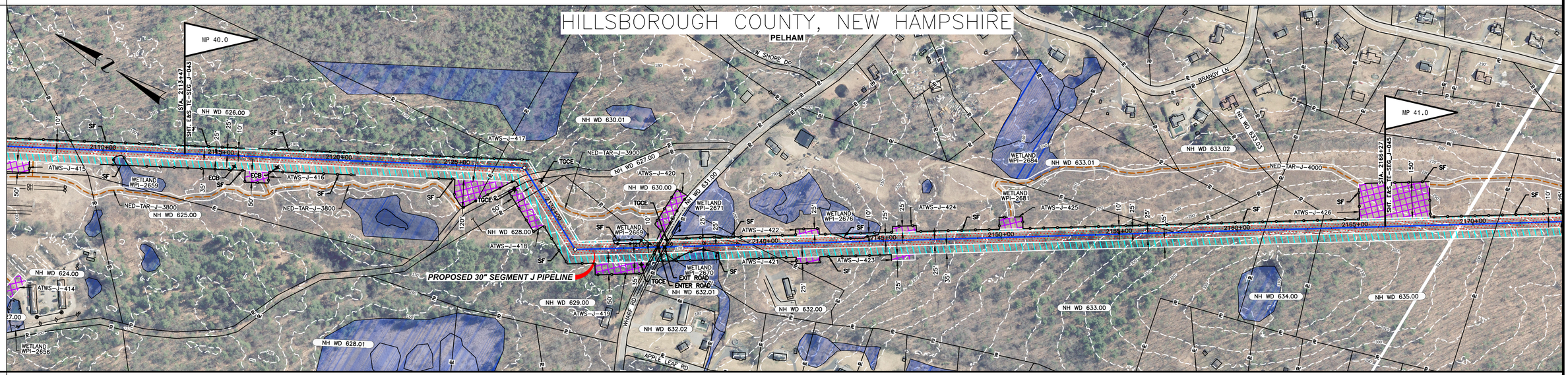
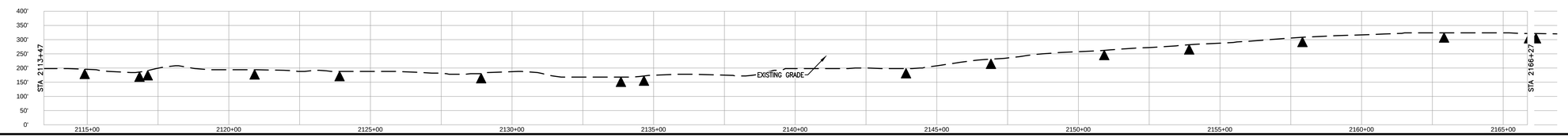
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-043	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM 200scl, 43dwl

PROTECTION EASEMENT	
LINE LIST	2113+47 — NH WD 626 — 2126+64 — NH WD 630.01 — 2128+21 — NH WD 627 — 2128+49 — NH WD 628 — 2129+00 — NH WD 629 — 2135+30 — NH WD 630 — 2135+30 — NH WD 631 — 2135+83 — NH WD 632 — 2139+43 — NH WD 633 — 2157+40 — NH WD 633.01 — 2157+41 — NH WD 633 — 2161+16 — NH WD 634 — 2163+55 — NH WD 635 — 2166+27
PIPELINE STATIONING	2126+64 PROPERTY LINE 2127+07 PI ~ 50°30'45" RT. 2128+21 PROPERTY LINE 2128+49 PROPERTY LINE 2129+00 PROPERTY LINE 2131+94 PI ~ 50°30'45" LT. 2135+30 UTILITY POLE 21' RT. 2135+30 PROPERTY LINE 2135+39 PROPERTY LINE 2135+44 PORTAGE POWER LINE 2135+74 EDGE OF PAVEMENT 2135+83 PROPERTY LINE 2136+03 UTILITY POLE 12' LT. 2136+30 UTILITY POLE 200' LT. 2137+39 UTILITY POLE 11' LT. 2138+83 UTILITY POLE 4' LT. 2139+43 PROPERTY LINE 2157+40 PROPERTY LINE 2157+41 PROPERTY LINE 2161+16 PROPERTY LINE 2163+55 PROPERTY LINE
ALIGNMENT STRIP MAP	
MATERIAL	
COATING	
DESIGN FACTOR	
CLASS LOCATION	CLASS 2 — CLASS 1 — CLASS 2
PROFILE	
ENVIRONMENTAL	
SOILS	

PROFILE LEGEND

SLOPE BREAKERS ◯

TRENCH PLUG ▲

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- WETLAND (DELINEATED)
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REFERENCE DRAWINGS

TE-SEG_J-043	ALIGNMENT SHEET
TE-SEG_J-045	ALIGNMENT SHEET

TYPICALS

SCALE: 200 100 0 200 400

IMAGERY: APRIL/MAY 2015

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PROPOSED 30" PIPELINE
SEGMENT J WRIGHT TO DRACUT PIPELINE SEGMENT
EROSION & SEDIMENT CONTROL PLAN
ALIGNMENT SHEET
HILLSBOROUGH COUNTY, NEW HAMPSHIRE

DESIGN COORD:	DATE:	SCALE: 1 = 200'	PROJ. ID.:
PROJECT COORD:	DATE:	E&S_TE-SEG_J-044	0
OPER. APPR:	DATE:		

11/5/2015 3:53 PM SHAWL KEVIN