RIGHT-OF-WAY

TRACT NUMBERS

1728+76	OH-ST-146.0000	1730+16	OH-ST-147.0000-RD	1730+76	OH-ST-149.0000	1732+07	OH-ST-150.0000	1733+20	OH-ST-151.0000	1734+34	OH-ST-152.0000	1735+53	OH-ST-153.0000	1736+76	OH-ST-154.0000	1738+05	OH-ST-155.0000	1739+31	OH-ST-156.0000	1741+47	OH-ST-158.0000-RD	1742+07	OH-ST-159.0000	1743+55	OH-ST-160.0000	1744+67	OH-ST-162.0000	1745+44	OH-ST-163.0000	1747+10	OH-ST-168.0000-RD	1747+98	OH-ST-168.0100	1749+72	OH-ST-168.0200	1749+72	OH-ST-167.0000	1750+72	OH-ST-169.0000	1751+68	OH-ST-170.0000	1752+75	OH-ST-171.0000-RD	1753+25	OH-ST-172.0000	1755+62	OH-ST-173.0000	1762+26
	8.6 RODS 142 FT.		3.5 RODS 58 FT.		7.9 RODS 131 FT.		6.8 RODS 113 FT.		6.9 RODS 114 FT.		7.2 RODS 119 FT.		7.5 RODS 123 FT.		7.5 RODS 124 FT.		7.9 RODS 131 FT.		13.1 RODS 216 FT.		3.6 RODS 60 FT.		8.2 RODS 136 FT.		7.5 RODS 124 FT.		4.7 RODS 77 FT.		10.1 RODS 166 FT.		5.3 RODS 88 FT.		4.5 RODS 74 FT.		6.1 RODS 100 FT.		6.1 RODS 100 FT.		5.8 RODS 96 FT.		6.5 RODS 107 FT.		3.0 RODS 50 FT.		14.4 RODS 237 FT.		44.7 RODS 738 FT.	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1729+39 TOWER, 100 FT.
STA. 1729+67 POWERLINE (SCALED)
STA. 1729+97 POWERLINE
STA. 1730+16 UNDERGROUND POWER
STA. 1730+30 UNDERGROUND
STA. 1730+35 ROAD EDGE
STA. 1730+47 PAVED, DOTWOOD ST NW
STA. 1730+51 ROAD EDGE
STA. 1730+68 UNDERGROUND WATER
STA. 1730+70 GAS PL
STA. 1731+31 H-214 FIRE
STA. 1731+94 PAVED, WRIGHT RD NW
STA. 1731+74 PI - 30°09' RT
STA. 1738+69 PI - 8°47'52" LT
STA. 1737+26 FIRE HYDRANT, 100 FT. LEFT
STA. 1737+27 UNDERGROUND CABLE
STA. 1737+33 UNDERGROUND POWER
STA. 1739+15 UNDERGROUND CABLE
STA. 1739+22 UNDERGROUND POWER
STA. 1740+13 PI - 6°23'12" RT
STA. 1741+59 POWERLINE
STA. 1741+60 TOP BANK
STA. 1741+71 TOE BANK
STA. 1741+84 ROAD EDGE
STA. 1741+85 PAVED, WRIGHT RD NW CENTERLINE
STA. 1742+01 ROAD EDGE
STA. 1742+14 GAS PL
STA. 1743+12 PI - 44°59'59" LT
STA. 1743+44 GAS PL
STA. 1745+14 PI - 3°23'- RT
STA. 1746+00 PI - 59°39'39" LT
STA. 1746+26 MUNICIPALITY
STA. 1747+25 POWERLINE (SCALED)
STA. 1747+83 ROAD EDGE
STA. 1747+85 UNDERGROUND TELEPHONE
STA. 1747+90 CULVERT
STA. 1748+02 ROAD EDGE
STA. 1748+17 UNDERGROUND
STA. 1748+35 SAN SEWER
STA. 1748+35 PI - 4°49'- RT
STA. 1749+35 PI - 4°49'- RT
STA. 1750+71 UNDERGROUND POWER
STA. 1751+05 UNDERGROUND TELEPHONE
STA. 1751+51 DRIVEWAY EDGE
STA. 1751+65 DRIVEWAY CENTERLINE
STA. 1751+75 DRIVEWAY EDGE
STA. 1752+88 UNDERGROUND SAN SEWER
STA. 1752+95 ROAD EDGE
STA. 1753+13 CULVERT NW CENTERLINE (SCALED)
STA. 1753+17 ROAD EDGE
STA. 1753+36 UNDERGROUND SAN SEWER
STA. 1753+74 DRIVEWAY EDGE
STA. 1753+83 DRIVEWAY CENTERLINE
STA. 1754+00 DRIVEWAY EDGE
STA. 1758+51 PI - 14°59'59" LT
STA. 1758+52 UNDERGROUND SAN SEWER
STA. 1758+52 UNDERGROUND TELEPHONE
STA. 1758+44 PI - 14°19'59" LT
STA. 1760+70 PI - 15°46'29" LT

CLASS LOCATION

CLASS 3

PIPE MATERIAL

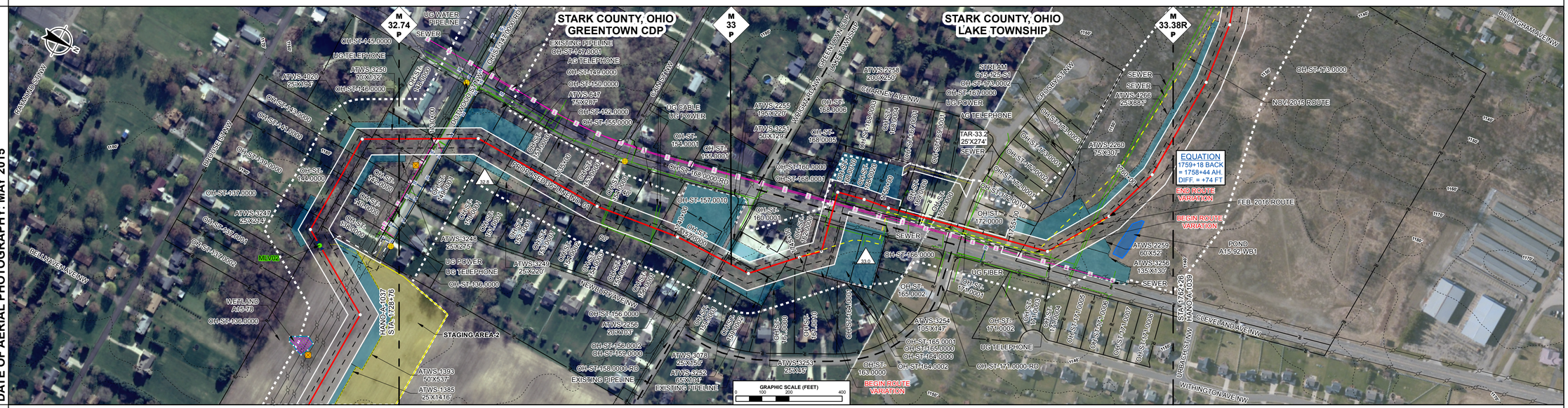
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
32.8	ATWS/TWS ADJUSTED BASED ON UPDATED ENGINEERING DESIGN.
33.0	CENTERLINE REROUTED TO AVOID EXISTING UTILITIES. TWS/ATWS ADJUSTED ACCORDINGLY. (1,404 FT)

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R) SITE
- COMPRESSOR STATION SITE
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015


STARK COUNTY, OHIO
GREENTOWN CDP
STARK COUNTY, OHIO
LAKE TOWNSHIP
M 32.74 P
M 33 P
M 33.38R P
EXISTING PIPELINE
OH-ST-147.0001
OH-ST-149.0000
OH-ST-150.0000
OH-ST-152.0000
OH-ST-159.0000
OH-ST-156.0000
OH-ST-158.0000-RD
OH-ST-145.0000
OH-ST-146.0000
OH-ST-147.0000-RD
OH-ST-134.0000
OH-ST-139.0000
OH-ST-144.0000
OH-ST-137.0000
OH-ST-138.0000
OH-ST-135.0000
OH-ST-136.0000
OH-ST-157.0000
OH-ST-160.0000-RD
OH-ST-160.0001
OH-ST-163.0000
OH-ST-165.0000
OH-ST-165.0002
OH-ST-163.0001
OH-ST-164.0000
OH-ST-164.0002
OH-ST-171.0000-RD
OH-ST-173.0000
OH-ST-172.0000
OH-ST-172.0001
OH-ST-170.0000
OH-ST-170.0002
OH-ST-169.0000
OH-ST-169.0001
OH-ST-168.0000
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OH-ST-163.0036
OH-ST-163.0037
OH-ST-163.0038
OH-ST-163.0039
OH-ST-163.0040
OH-ST-163.0041

RIGHT-OF-WAY

TRACT NUMBERS

1803+85	OH-ST-181.0000	1805+43	OH-SU-001.0000	1812+54	OH-SU-002.0000-RR	1813+15	OH-SU-003.0000	1817+44	OH-SU-004.0000	1819+84	OH-SU-005.0000	1822+17	OH-SU-006.0000/OH-SU-007.0000	1833+75	OH-SU-008.0000	1836+54	OH-SU-009.0000	1848+32
	9.6 RODS 158 FT.		43.1 RODS 711 FT.		3.7 RODS 61 FT.		26.0 RODS 429 FT.		14.5 RODS 240 FT.		14.1 RODS 233 FT.		70.2 RODS 1158 FT.		16.9 RODS 279 FT.		71.4 RODS 1178 FT.	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1805+02 MUNICIPALITY LINE
STA. 1805+40 FENCE
STA. 1808+24 PI – 16°59'49" LT
STA. 1809+38 PI – 3°43'44" RT
STA. 1812+53 FENCE
STA. 1812+71 RAILROAD TOE
STA. 1812+80 RAILROAD TOP
STA. 1812+84 RAILROAD CENTERLINE
STA. 1812+89 RAILROAD TOE
STA. 1812+93 RAILROAD TOE
STA. 1812+99 UNDERGROUND FIBER
STA. 1815+04 PI – 30°03'0" RT
STA. 1816+96 UNK PL
STA. 1816+98 ROAD EDGE
STA. 1817+05 UNK
CENTERLINE
STA. 1817+13 ROAD EDGE
STA. 1826+65 PI – 22°27'59" RT
STA. 1827+97 TOE BANK
STA. 1828+71 DRIVEWAY EDGE
STA. 1828+75 DRIVEWAY CENTERLINE
STA. 1829+08 DRIVEWAY EDGE
STA. 1830+57 LIGHT POLE, 150 FT. RIGHT
STA. 1832+98 TOP BANK
STA. 1833+02 TOTAL DEPTH 0 FT. CENTERLINE
STA. 1833+06 TOP BANK
STA. 1840+73 PI – 45°05'0" LT
STA. 1846+82 PI – 22°27'59" LT
STA. 1849+18 POWERLINE (SCALED)

CLASS LOCATION

CLASS 3 | CLASS 1 | CLASS 2

PIPE MATERIAL

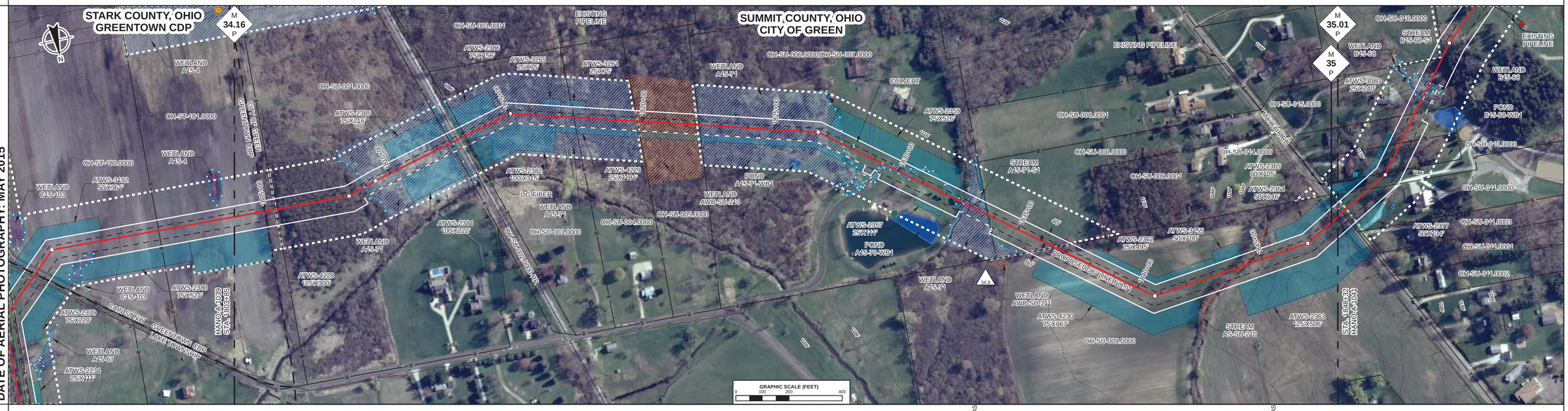
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
34.8	RESOURCE UPDATED BASED ON WETLAND FIELD SURVEY. TWS ADJUSTED ACCORDINGLY.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R) SITE
- COMPRESSOR STATION SITE
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 1808+87 WETLAND A15-71 ENTER
STA. 1812+65 WETLAND A15-71 EXIT
STA. 1813+04 WETLAND A15-71 ENTER
STA. 1819+66 WETLAND AWB-SU-213 ENTER
STA. 1819+94 WETLAND A15-71 EXIT
STA. 1822+02 WETLAND A15-71 ENTER
STA. 1822+39 WETLAND AWB-SU-213 EXIT
STA. 1828+53 WETLAND A15-71 EXIT
STA. 1829+24 WETLAND A15-71 ENTER
STA. 1833+94 CENTERLINE OF STREAM A15-71-SI TRIBUTARY TO TUSCARAWAS RIVER
STA. 1834+31 WETLAND A15-71 EXIT
STA. 1844+28 CENTERLINE OF STREAM AS-SU-210 TRIBUTARY TO TUSCARAWAS RIVER

E & S TYPICALS

E&S TYPICALS WILL BE USED AS A PLAN AND WILL HAVE FURTHER INPUT FROM ENVIRONMENTAL INSPECTOR.

PROFILE

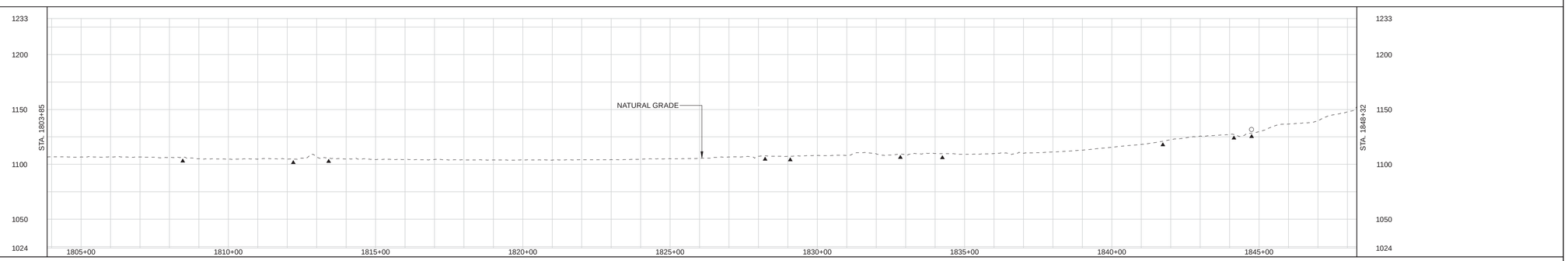
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OL	OPEN LAND	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	OW	OPEN WATER

SOILS																															
LAND USE	AG	F/W	OL	I/C	F/W	OL	F/W	OL	R	OL	R	OL	R	F/W	AG	F/W	AG	F/W	AG	OL											
% SLOPE	< 5%		15-30%	5-15%	< 5%	5-15%	< 5%		5-15%	< 5%		5-15%		< 5%		5-15%	< 5%		5-15%	< 5%	5-15%	< 5%	5-15%	< 5%	5-15%	15-30%					

P:\09_UPSTREAM_P\PIPELINE\295K_CIS\Tundra\Nuke\ NEXUS PROPOSED MAINLINE PIPELINE 040 of 278.pdf -PLOT TIME: 2016-06-15 10:28:06

IG.#

DWG. NO.	DESCRIPTION

REFERENCE DRAWINGS

REV	DSN	CK	DESCRIPTION
3			ISSUED FOR FERC (07/2016)
2			ISSUED FOR P3 (03/2016)
1			ISSUED FOR FERC (02/2016)
0B			ISSUED FOR FERC FILING (11/2015)
0A			ISSUED FOR FERC FILING (11/2015)
0			ISSUED FOR FERC FILING (11/2015)

REVISIONS

ITEM	DESCRIPTION	QTY

MATERIALS

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
NAME	SIGNATURE	DATE	SIGNATURE	DATE

HANO - WADS
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO AND STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	HANO-A-1040	REV. 3

RIGHT-OF-WAY

TRACT NUMBERS

1848+32	OH-SU-009.0000	1848+57	OH-SU-011.0000	1849+90	OH-SU-012.0000	1850+81	OH-SU-013.0000	1852+04	OH-SU-014.0000	1853+28	OH-SU-015.0000	1855+60	OH-SU-016.0000	1855+77	OH-SU-012.0000	1864+07	OH-SU-017.0000	1872+04	OH-SU-018.0000-RD	1875+77	OH-SU-019.0000	1881+31	OH-SU-020.0000	1889+88
	1.5 RODS 25 FT.		8.1 RODS 133 FT.		5.5 RODS 91 FT.		7.5 RODS 123 FT.		7.5 RODS 124 FT.		14.1 RODS 232 FT.		0.7 RODS 11 FT.		50.7 RODS 836 FT.		48.3 RODS 797 FT.		22.6 RODS 373 FT.		33.6 RODS 554 FT.		52.5 RODS 867 FT.	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1848+42 ROAD EDGE
STA. 1848+54 PENCIL MAYPAIR ROAD
STA. 1848+64 PIPELINE (SCALED)
STA. 1848+64 ROAD EDGE
STA. 1848+77 CULVERT
STA. 1848+82 POWERLINE
STA. 1849+87 CULVERT
STA. 1849+88 WATER WELL, 76 FT LEFT
STA. 1850+20 SEPTIC TANK, 10 FT LEFT
STA. 1850+72 PI – 22°30'0" LT
STA. 1850+79 FENCE
STA. 1852+05 FENCE
STA. 1856+22 PI – 8°26'27" RT
STA. 1856+79 FENCE
STA. 1858+24 OIL PL
STA. 1858+35 OIL WELL, 185 FT LEFT
STA. 1858+39 FENCE
STA. 1858+57 PIPELINE
STA. 1858+64 FENCE
STA. 1861+51 FENCE
STA. 1868+72 PI – 45°0'0" RT
STA. 1872+14 FENCE
STA. 1873+03 ROAD EDGE
STA. 1873+27 I 77 N
STA. 1873+27 I 77 S (SCALED)
STA. 1874+19 ROAD EDGE
STA. 1874+43 I 77 S
STA. 1874+43 I 77 S (SCALED)
STA. 1874+90 ROAD EDGE
STA. 1884+10 TOWER, 90 FT. LEFT

CLASS LOCATION

CLASS 2

PIPE MATERIAL

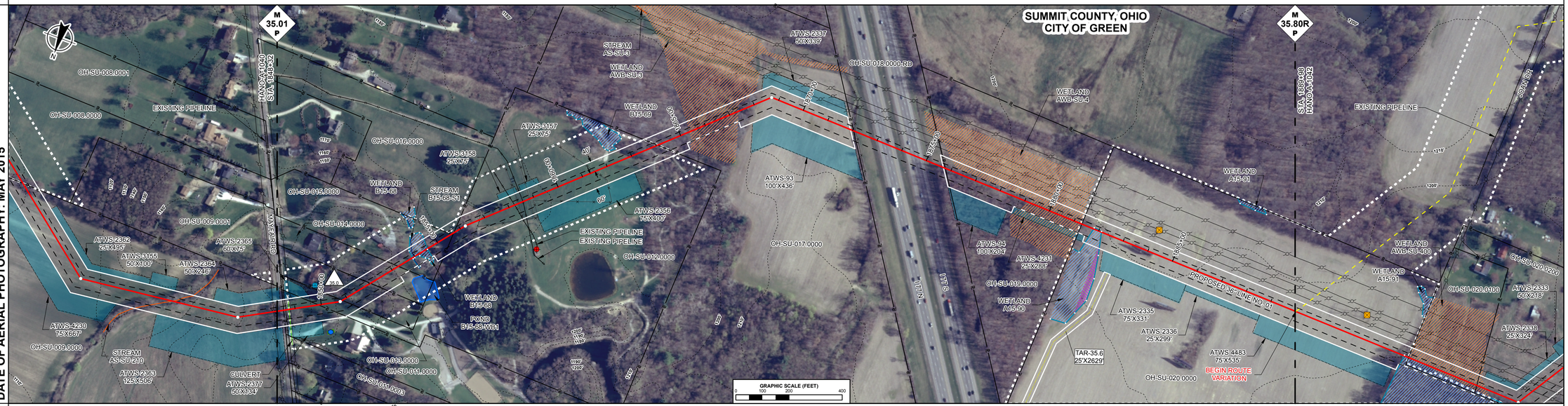
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
35.0	ATWS ADJUSTED TO REDUCE RESIDENTIAL IMPACTS.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R) SITE
- COMPRESSOR STATION SITE
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
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- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD (PAR-0.0, TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 1853+90 WETLAND B15-68 ENTER
STA. 1853+96 CENTERLINE OF TRIBUTARY TO TUSCARAWAS RIVER
STA. 1854+03 WETLAND B15-68 EXIT
STA. 1865+27 WETLAND AWB-SU-3 ENTER
STA. 1868+07 WETLAND AWB-SU-3 EXIT
STA. 1875+84 WETLAND AWB-SU-4 ENTER
STA. 1881+27 WETLAND AWB-SU-4 EXIT
STA. 1881+69 WETLAND A15-90 ENTER
STA. 1882+27 WETLAND A15-90 EXIT

E & S TYPICALS

E&S TYPICALS WILL BE USED AS A PLAN AND WILL HAVE FURTHER INPUT FROM ENVIRONMENTAL INSPECTOR.

PROFILE

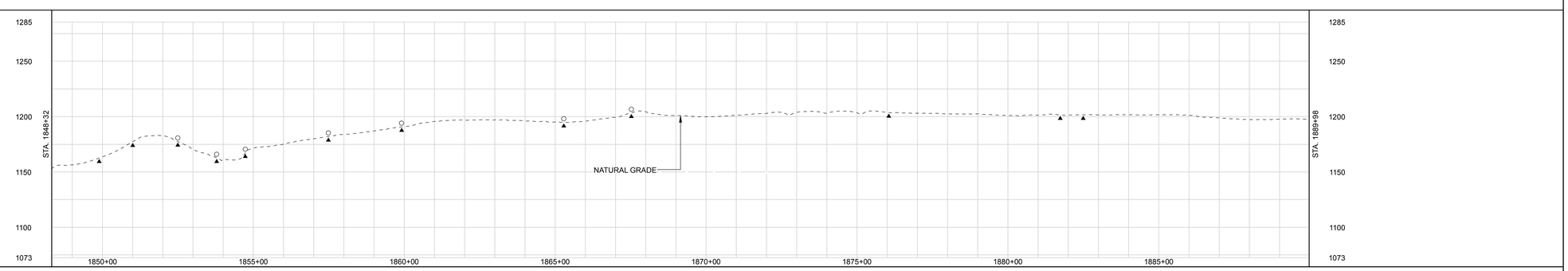
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OL	OPEN LAND	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	OW	OPEN WATER

| SOILS | | | | |

RIGHT-OF-WAY

TRACT NUMBERS

1889+58 | **OH-SU-020.0000** 27.9 RODS 461 FT. | 1894+59 | **OH-SU-020.0100** 16.7 RODS 276 FT. | 1897+35 | **OH-SU-020.0200** 89.1 RODS 1470 FT. | 1912+05 | **OH-SU-028.0000** 91.8 RODS 1515 FT. | 1927+20

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1892+54 TOWER, 90 FT. LEFT

STA. 1899+04 PI – 89°59'59" LT
STA. 1899+74 POWERLINE (SCALED)
STA. 1900+06 POWERLINE (LIDAR)
STA. 1900+37 POWERLINE (SCALED)
STA. 1901+22 POWERLINE (LIDAR)
STA. 1902+08 PI – 90°01'4" RT

STA. 1912+24 PI – 30°43'6" LT
STA. 1912+24 TOWER, 174 FT. RIGHT

STA. 1916+05 TANK BATTERY, 405 FT. RIGHT

STA. 1919+07 GAS WELL, 150 FT. RIGHT

STA. 1920+09 GAS P/L

STA. 1923+00 PI – 89°59'59" LT
STA. 1926+09 PI – 138°46' RT

CLASS LOCATION

CLASS 2 | CLASS 3

PIPE MATERIAL

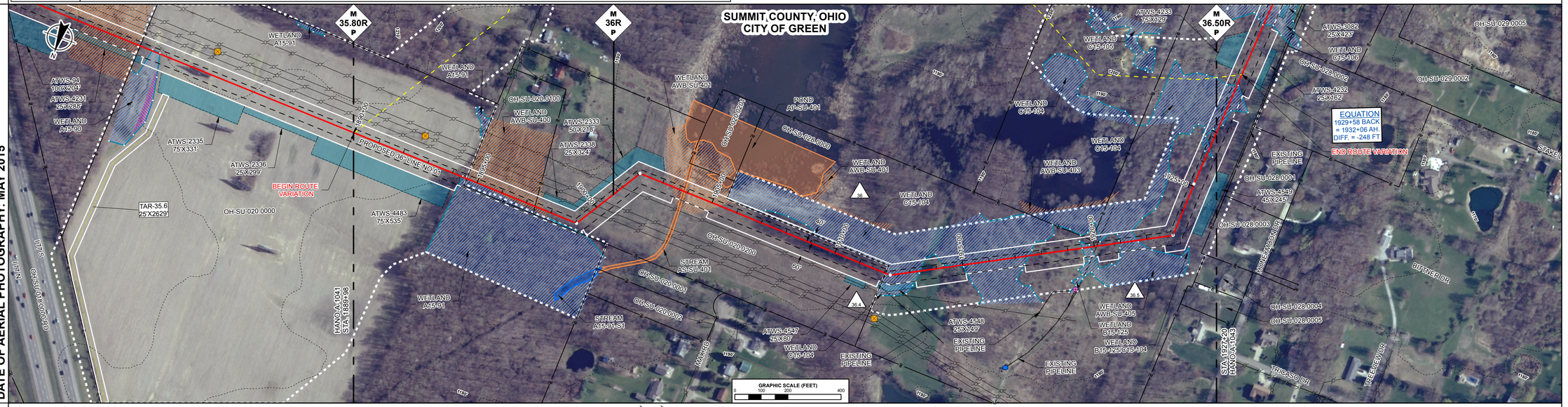
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
36	RESOURCE UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS. APPROXIMATED RESOURCES UPDATED.
36.4	ATWS REMOVED DUE TO UPDATED WETLAND AND CIVIL FIELD SURVEYS. TWS ADJUSTED ACCORDINGLY.
36.5	ATWS/TWS ADJUSTED BASED ON UPDATED WETLAND FIELD SURVEY. APPROXIMATED RESOURCES UPDATED.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R) SITE
- COMPRESSOR STATION SITE
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD (PAR-0.0 / TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS / WATER / OIL / UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 1894+38 WETLAND A15-91 EXIST
STA. 1894+57 WETLAND AWEB-SU-400 ENTER

STA. 1897+98 WETLAND AWEB-SU-400 EXIT
STA. 1899+04 WETLAND A15-91 EXIT

STA. 1903+11 WETLAND AWB-SU-401 ENTER
STA. 1903+27 STREAM TRIBUTARY TO TUSCARAWAS RIVER AS-SU-401 ENTER
STA. 1904+08 STREAM TRIBUTARY TO TUSCARAWAS RIVER AS-SU-401 EXIT

STA. 1905+46 WETLAND C15-104 ENTER
STA. 1908+10 WETLAND AWB-SU-401 EXIT
STA. 1908+88 WETLAND C15-104 EXIT

STA. 1909+06 WETLAND C15-104 ENTER

STA. 1913+60 WETLAND C15-104 EXIT
STA. 1914+12 WETLAND B15-125/C15-104 ENTER

STA. 1917+77 WETLAND B15-125/C15-104 EXIT

STA. 1919+48 WETLAND B15-125 ENTER
STA. 1920+02 WETLAND B15-125 EXIT
STA. 1920+22 WETLAND B15-125/C15-104 ENTER
STA. 1920+54 WETLAND B15-125/C15-104 EXIT
STA. 1920+78 WETLAND B15-125/C15-104 ENTER
STA. 1922+04 WETLAND B15-125/C15-104 EXIT

STA. 1926+30 WETLAND C15-104 ENTER

E & S TYPICALS

E&S TYPICALS WILL BE USED AS A PLAN AND WILL HAVE FURTHER INPUT FROM ENVIRONMENTAL INSPECTOR.

PROFILE

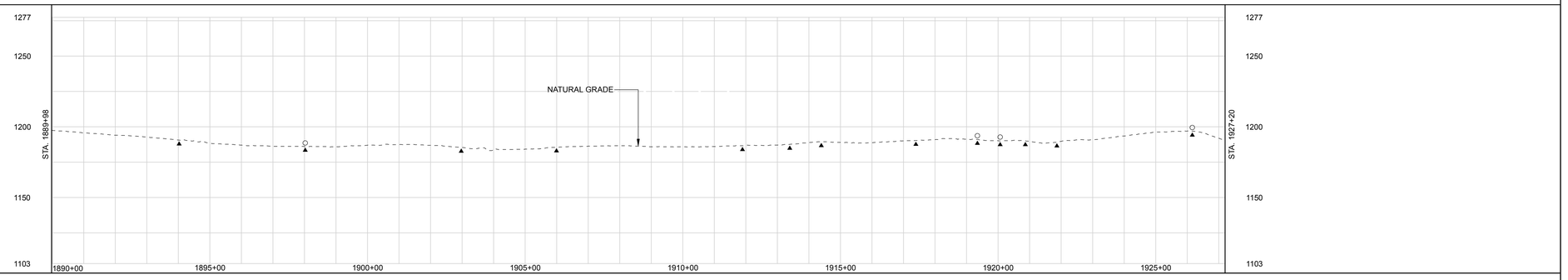
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG AGRICULTURAL | OL OPEN LAND | I/C INDUSTRIAL/COMMERCIAL
F/W FOREST/WOODLAND | R RESIDENTIAL | OW OPEN WATER

SOILS																							
LAND USE	AG		F/W		OL		AG		OL	OW	OL		AG		F/W		OL		F/W		OL		F/W		OL	F/W
% SLOPE	< 5%		5-15%		< 5%				5-15%				< 5%						5-15%		< 5%					

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION
REFERENCE DRAWINGS		REVISIONS			
		3			ISSUED FOR FERC (07/2016)
		2			ISSUED FOR P3 (03/2016)
		1			ISSUED FOR FERC (02/2016)
		0B			ISSUED FOR FERC FILING (11/2015)
		0A			ISSUED FOR FERC FILING (11/2015)
		0			ISSUED FOR FERC FILING (11/2015)

ITEM	DESCRIPTION	QTY
MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
NAME	SIGNATURE	DATE	SIGNATURE	DATE

HANO - WADS
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS SM GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	HANO-A-1042	REV. 3

IG.#

P:\295_UPSTREAM_PIPELINE\295K_GIS\TurboRoute NEXUS PROPOSED MAINLINE PIPELINE 842 of 278.pdf - PLOT TIME: 2016-06-15 14:17:39

RIGHT-OF-WAY

TRACT NUMBERS

1927+20 | OH-SU-028.0000 49.6 RODS 818 FT. | 1937+86 | OH-SU-029.0000 13.0 RODS 215 FT. | 1940+01 | OH-SU-030.0000 9.4 RODS 155 FT. | 1941+56 | OH-SU-029.0000 8.1 RODS 133 FT. | 1942+89 | OH-SU-031.0000 | OH-SU-032.0000 101.4 RODS 1673 FT. | 1959+70 | OH-SU-033.0000 0.2 RODS 3 FT. | 1959+73 | OH-SU-034.0000/OH-SU-034.0001 54.5 RODS 900 FT. | 1968+73 | OH-SU-035.0000 0.2 RODS 3 FT. | 1968+76

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1936+10 PI – 29°39'59" RT
STA. 1937+01 PI – 17°5'4" RT
STA. 1937+70 GAS PL
STA. 1938+70 PI – 30°0'0" LT
STA. 1939+47 PI – 5°15'57" LT
STA. 1940+16 TOP BANK
STA. 1940+19 DITCH DEPTH 0 FT. CENTERLINE
STA. 1940+22 TOP BANK
STA. 1940+84 PI – 10°3'57" RT
STA. 1941+20 SEPTIC TANK 84 FT. LEFT
STA. 1941+95 WATER WELL 81 FT. LEFT
STA. 1942+63 ABOVEGROUND TELEPHONE PEDESTAL
STA. 1942+81 GREENSBURG RD. CENTERLINE (SCALED)
STA. 1943+15 TOE BANK
STA. 1943+17 POWERLINE VERT. CLEARANCE 18 FT.
STA. 1943+50 TOE BANK
STA. 1943+69 PI – 22°23'59" RT
STA. 1944+88 PI – 44°59'59" LT
STA. 1953+99 PI – 14°59'59" RT
STA. 1958+64 PI – 30°0'0" RT
STA. 1959+05 TOP BANK
STA. 1966+84 PI – 30°0'0" RT

CLASS LOCATION

CLASS 3

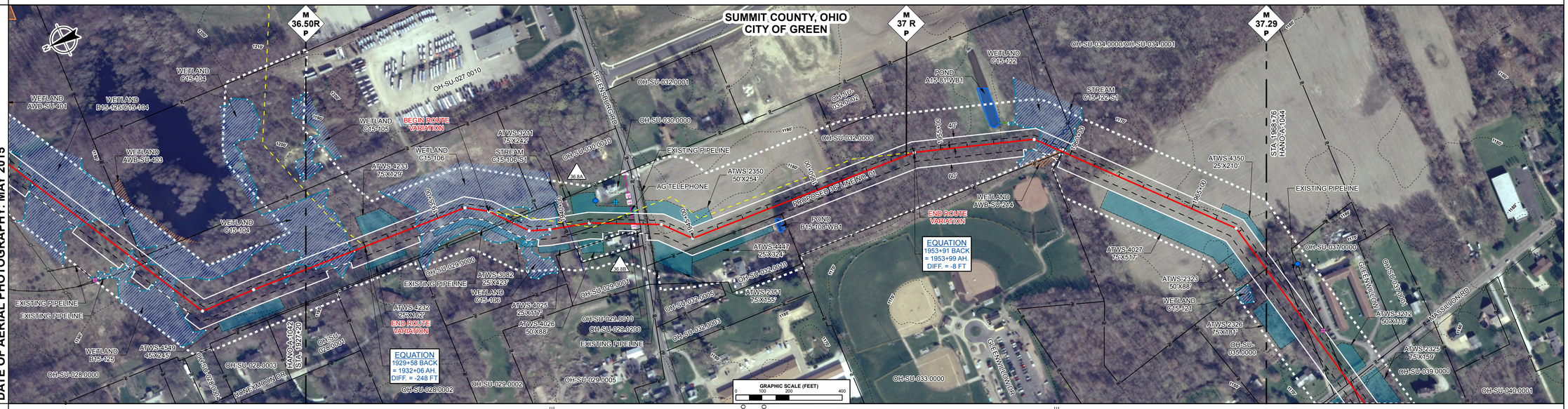
PIPE MATERIAL

PROJECT MODIFICATION TABLE	
PROJ. MOD. NUMBER	DESCRIPTION
36.8A	ATWS ADJUSTED BASED ON UPDATED CIVIL FIELD SURVEY.
36.8B	TWS ADJUSTED TO REDUCE RESIDENTIAL IMPACTS.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
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- COMPRESSOR STATION SITE
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
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- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 1929+15 WETLAND C15-104 EXIT
STA. 1934+10 WETLAND C15-106 ENTER
STA. 1939+79 WETLAND C15-106 EXIT
STA. 1940+16 CENTERLINE OF STREAM C15-106A-S1 TRIBUTARY TO WILLOWDALE LAKE
STA. 1948+66 POND TRIBUTARY TO WILLOWDALE LAKE B15-108-WB1 ENTER
STA. 1948+34 POND TRIBUTARY TO WILLOWDALE LAKE B15-108-WB1 EXIT
STA. 1958+65 WETLAND C15-122 ENTER
STA. 1959+22 WETLAND AWB-SU-214 ENTER
STA. 1959+63 CENTERLINE OF STREAM C15-122-S1 TRIBUTARY TO WILLOWDALE LAKE
STA. 1959+69 WETLAND AWB-SU-214 EXIT
STA. 1959+86 WETLAND C15-122 EXIT

E & S TYPICALS

E&S TYPICALS WILL BE USED AS A PLAN AND WILL HAVE FURTHER INPUT FROM ENVIRONMENTAL INSPECTOR.

PROFILE

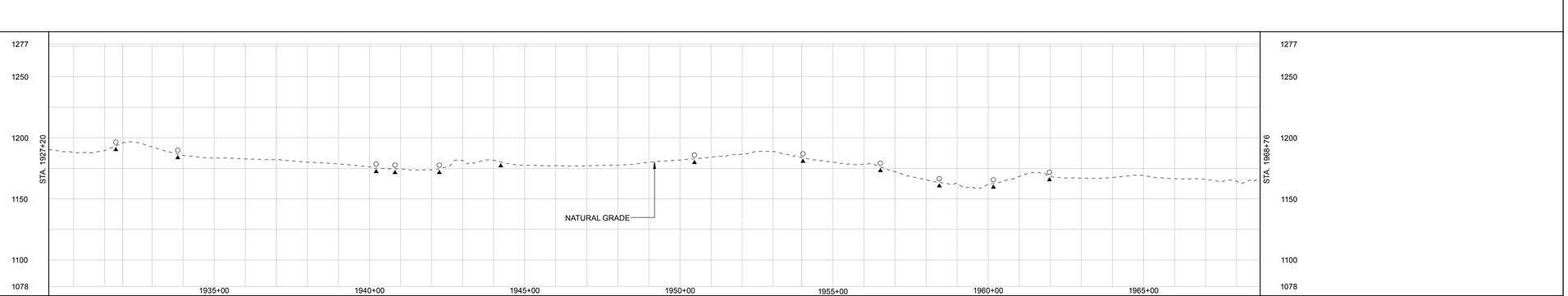
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG AGRICULTURAL | OL OPEN LAND | I/C INDUSTRIAL/COMMERCIAL
F/W FOREST/WOODLAND | R RESIDENTIAL | OW OPEN WATER

| SOILS | | |

RIGHT-OF-WAY

TRACT NUMBERS

OH-SU-035.0000	OH-SU-034.0000/OH-SU-034.0001	OH-SU-037.0000	OH-SU-040.0000	OH-SU-039.0000	OH-SU-040.0000	OH-SU-041.0000	OH-SU-041.0100	OH-SU-044.0000	OH-SU-045.0000	OH-SU-046.0000	OH-SU-047.0000
1968+76	1971+09	1973+63	1974+05	1974+34	1977+21	1983+29	1995+58	1997+90	2001+10	2002+69	2004+29	2008+76
14.1 RODS	15.4 RODS	2.5 RODS	1.8 RODS	17.4 RODS	36.3 RODS	75.0 RODS	14.1 RODS	19.4 RODS	9.6 RODS	9.7 RODS	27.1 RODS	
233 FT.	254 FT.	42 FT.	29 FT.	287 FT.	599 FT.	1238 FT.	232 FT.	320 FT.	159 FT.	160 FT.	447 FT.	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1969+29 TANK BATTERY, 107 FT. LEFT
STA. 1971+68 GAS WELL, 36 FT. LEFT
STA. 1973+71 TOP BANK
STA. 1974+01 MASSILLON RD CENTERLINE (SCALED)
STA. 1974+38 TOP BANK
STA. 1976+54 TOP BANK
STA. 1976+70 TOP BANK
STA. 1979+82 TOE BANK
STA. 1979+95 TOP BANK
STA. 1981+56 TOE BANK
STA. 1981+68 TOP BANK
STA. 1988+69 PI – 7°48'24" LT
STA. 1993+90 PI – 69°59'59" LT
STA. 1997+92 KOONS RD CENTERLINE (SCALED)
STA. 2000+92 PI – 29°59'59" RT
STA. 2006+00 PIPELINE ($SCALED)

CLASS LOCATION

CLASS 3 | CLASS 2

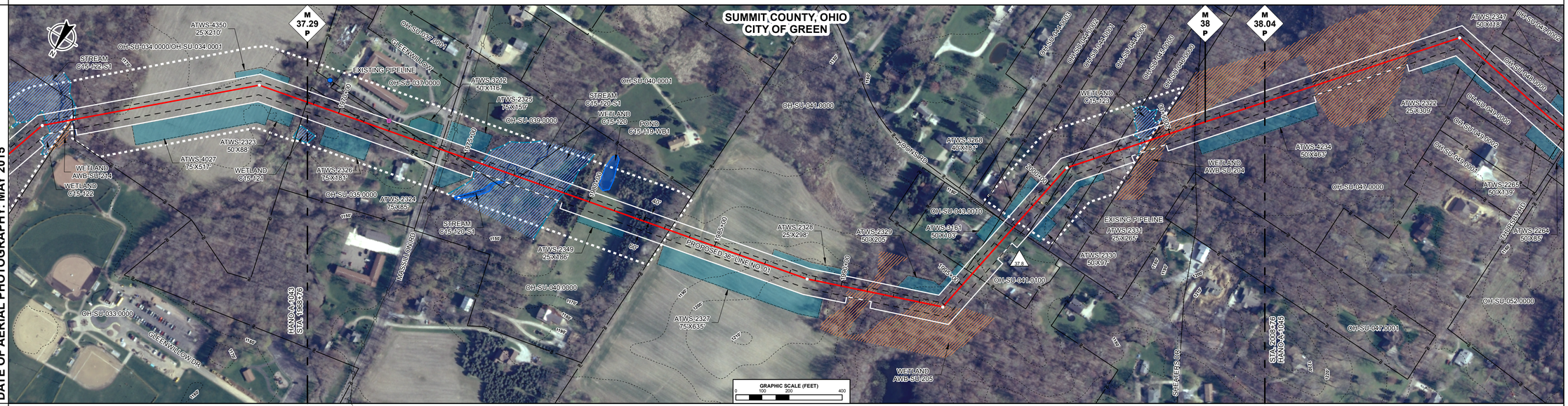
PIPE MATERIAL

PROJECT MODIFICATION TABLE	
PROJ. MOD. NUMBER	DESCRIPTION
37.8	ATWS/TWS ADJUSTED TO REDUCE RESIDENTIAL IMPACTS.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R) SITE
- COMPRESSOR STATION SITE
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
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- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 1975+46 WETLAND C15-120 ENTER
STA. 1976+64 STREAM TRIBUTARY TO WILLOWDALE LAKE C15-120-S1 ENTER
STA. 1976+68 CENTERLINE OF STREAM C15-120-S1 TRIBUTARY TO WILLOWDALE LAKE
STA. 1976+78 STREAM TRIBUTARY TO WILLOWDALE LAKE C15-120-S1 EXIT
STA. 1979+15 WETLAND C15-120 EXIT
STA. 1990+19 WETLAND AWB-SU-205 ENTER
STA. 1991+46 WETLAND AWB-SU-205 EXIT
STA. 1992+33 WETLAND AWB-SU-205 ENTER
STA. 1994+38 WETLAND AWB-SU-205 EXIT
STA. 2003+64 WETLAND C15-123 ENTER
STA. 2003+71 WETLAND AWB-SU-204 ENTER
STA. 2004+65 WETLAND C15-123 EXIT
STA. 2008+67 WETLAND AWB-SU-204 EXIT

E & S TYPICALS

E&S TYPICALS WILL BE USED AS A PLAN AND WILL HAVE FURTHER INPUT FROM ENVIRONMENTAL INSPECTOR.

PROFILE

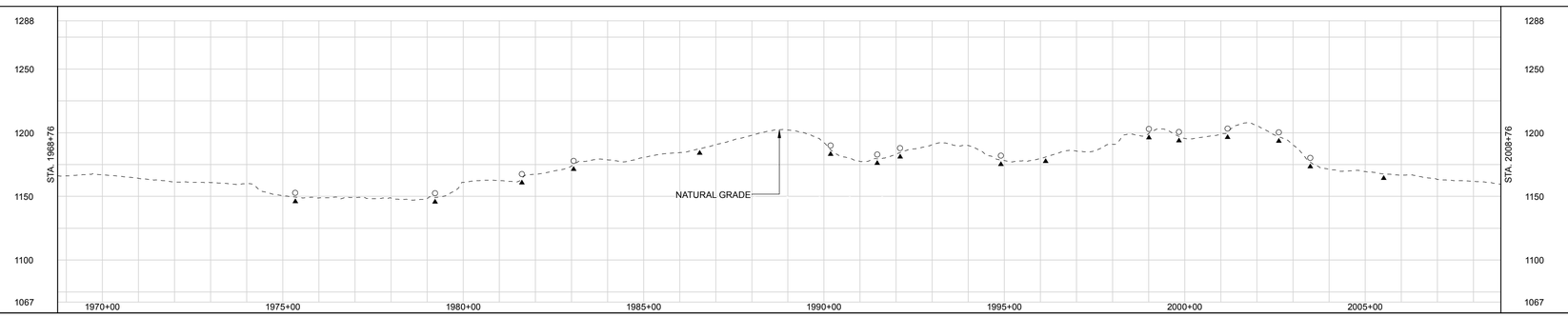
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG AGRICULTURAL | OL OPEN LAND | I/C INDUSTRIAL/COMMERCIAL
F/W FOREST/WOODLAND | R RESIDENTIAL | OW OPEN WATER

| SOILS | | |

RIGHT-OF-WAY

TRACT NUMBERS

2051+76 | OH-SU-059.0000 41.2 RODS 680 FT. | 2058+56 (2058+40 DUP) | OH-SU-061.0000 54.1 RODS 893 FT. | 2067+49 | OH-SU-062.0000 16.1 RODS 266 FT. | 2070+15 | OH-SU-063.0000 34.9 RODS 576 FT. | 2075+91 | OH-SU-064.0000 9.8 RODS 162 FT. | 2077+53 | OH-SU-065.0000 39.2 RODS 646 FT. | 2083+99 | OH-SU-067.0000 5.0 RODS 82 FT. | 2084+81

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2057+06 PI – 60°0'0" RT
STA. 2058+40 DITCH, DEPTH 0
FT. CENTERLINE
STA. 2058+44 ROAD EDGE
STA. 2058+57 PAVED, KOONS RD CENTERLINE
STA. 2058+63 ROAD EDGE
STA. 2058+73 DITCH, DEPTH 0
FT. CENTERLINE
STA. 2059+07 POWERLINE VERT. CLEARANCE 28 FT.

STA. 2064+76 PI – 30°0'0" LT

STA. 2070+15 POWERLINE VERT. CLEARANCE 30 FT.

STA. 2070+99 PI – 30°0'0" RT

STA. 2077+66 TOP BANK

STA. 2078+89 PI – 44°58'59" LT

STA. 2079+92 PI – 10°47'46" LT

STA. 2083+62 PI – 3°14'4" RT

CLASS LOCATION

CLASS 2

PIPE MATERIAL

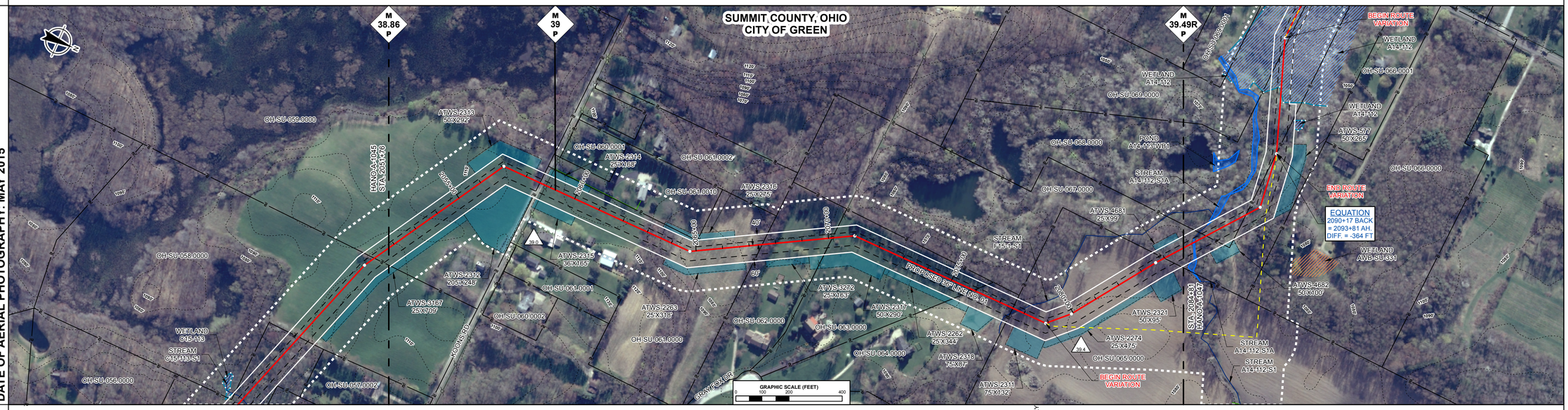
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
39.0	ATWS ADJUSTED TO REDUCE RESIDENTIAL IMPACTS.
39.4	CENTERLINE REROUTED DUE TO LANDOWNER REQUEST. TWS/ATWS AND RESOURCES UPDATED. (1,129 FT)

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
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- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
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- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
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- FOREIGN PIPELINE
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- WATER PIPELINE
- RAILROAD TRACK
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- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
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- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

E & S TYPICALS

E&S TYPICALS WILL BE USED AS A PLAN AND WILL HAVE FURTHER INPUT FROM ENVIRONMENTAL INSPECTOR.

PROFILE

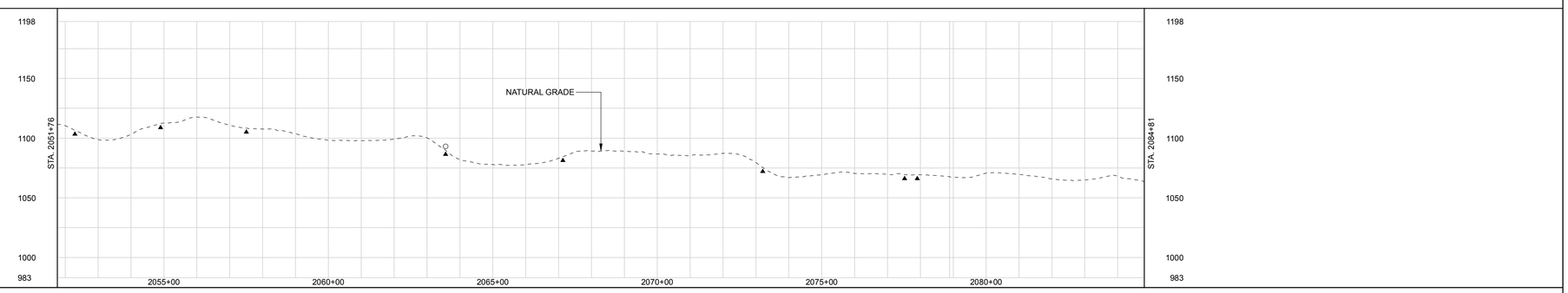
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
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IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OL	OPEN LAND	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	OW	OPEN WATER

| SOILS | | | | |

RIGHT-OF-WAY

TRACT NUMBERS

OH-SU-067.0000	OH-SU-068.0000	OH-SU-067.0000	OH-SU-068.0000	OH-SU-069.0000	OH-SU-071.0000	OH-SU-072.0000	OH-SU-072.0100	OH-SU-072.0200	OH-SU-072.0300	OH-SU-072.0400	OH-SU-072.0500
5.8 RODS	10.3 RODS	16.5 RODS	24.0 RODS	25.6 RODS	18.8 RODS	6.1 RODS	18.4 RODS	7.1 RODS	7.0 RODS	7.0 RODS	35.2 RODS
96 FT.	170 FT.	273 FT.	396 FT.	423 FT.	310 FT.	101 FT.	304 FT.	117 FT.	116 FT.	115 FT.	581 FT.
2084+81	2085+77	2087+47	2093+84	2097+80	2105+03 (ex 2105+03.23)	2105+13	2106+14	2109+18	2110+35	2111+51	2112+66	2118+47

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2088+91 ROAD EDGE
STA. 2089+05 DRT. UNK
CENTERLINE
STA. 2087+19 ROAD EDGE
STA. 2088+40 PI – 44°59'39" LT

STA. 2093+82 PI – 12°48'32" LT

STA. 2098+19 PI – 22°22'39" RT

STA. 2101+87 ROAD EDGE
(SCALED)
STA. 2102+02 ARLINGTON RD
CENTERLINE (SCALED)
STA. 2102+13 ROAD EDGE
(SCALED)
STA. 2102+23 POWERLINE
(SCALED)
STA. 2104+93 PI – 29°53'45" LT

STA. 2115+07 PI – 44°59'39" LT

CLASS LOCATION

CLASS 2

PIPE MATERIAL

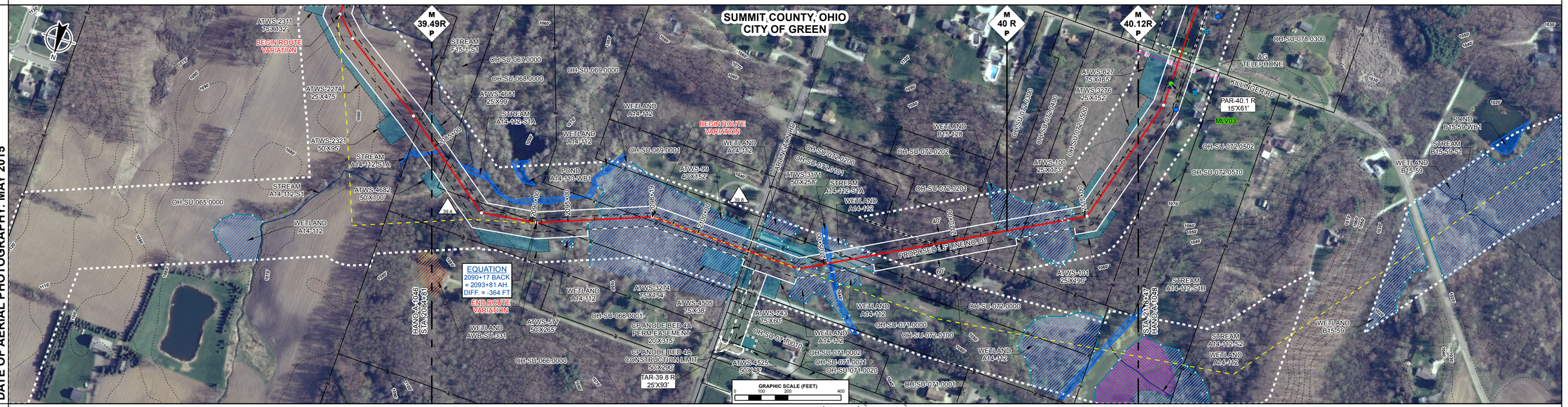
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
39.4	CENTERLINE REROUTED DUE TO LANDOWNER REQUEST. TWS/ATWS AND RESOURCES UPDATED. (1,129 FT)
39.8	ATWS ADJUSTED TO REDUCE RESIDENTIAL IMPACTS.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R) SITE
- COMPRESSOR STATION SITE
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 2084+06 TRIBUTARY TO NIMISILA RESERVOIR A14-112-S1A ENTER
STA. 2086+22 TRIBUTARY TO NIMISILA RESERVOIR A14-112-S1A EXIT

STA. 2094+93 WETLAND A14-112 ENTER
STA. 2095+12 WETLAND A14-112 EXIT
STA. 2095+76 WETLAND A14-112 ENTER

STA. 2101+87 WETLAND A14-112 EXIT
STA. 2102+26 WETLAND A14-112 ENTER
STA. 2103+07 WETLAND A14-112 EXIT
STA. 2103+29 WETLAND A14-112 ENTER
STA. 2104+79 WETLAND A14-112 EXIT
STA. 2105+07 WETLAND A14-112 ENTER
STA. 2105+14 STREAM TRIBUTARY TO NIMISILA RESERVOIR A14-112-S1A EXIT
STA. 2105+31 WETLAND A14-112 ENTER
STA. 2105+38 STREAM TRIBUTARY TO NIMISILA RESERVOIR A14-112-S1A EXIT
STA. 2105+92 WETLAND A14-112 EXIT
STA. 2106+98 WETLAND A14-112 EXIT

STA. 2111+67 WETLAND B15-128 ENTER

STA. 2114+61 WETLAND B15-128 EXIT

E & S TYPICALS

E&S TYPICALS WILL BE USED AS A PLAN AND WILL HAVE FURTHER INPUT FROM ENVIRONMENTAL INSPECTOR.

PROFILE

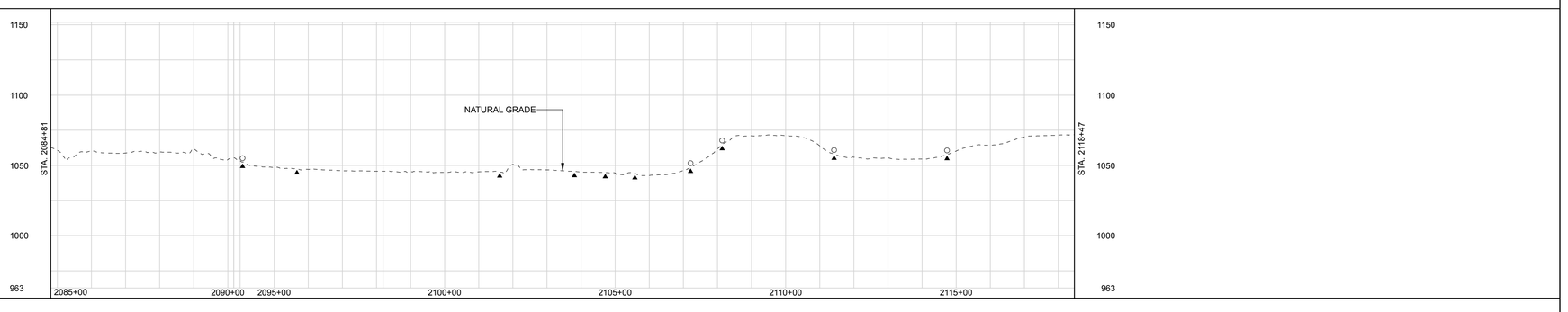
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OL	OPEN LAND	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	O/W	OPEN WATER

| SOILS | | | | |

RIGHT-OF-WAY

TRACT NUMBERS

2118+47 | OH-SU-072.0500: 21.4 RODS, 353 FT. | 2122+00 | OH-SU-078.0100: 45.7 RODS, 754 FT. | 2129+54 | OH-SU-078.0200: 18.8 RODS, 310 FT. | 2132+64 | OH-SU-078.0300: 2.1 RODS, 35 FT. | 2132+99 | OH-SU-078.0400: 44.2 RODS, 730 FT. | 2140+29 | OH-SU-078.0500: 67.1 RODS, 1107 FT. | 2151+36 | OH-SU-081.0000: 31.0 RODS, 511 FT. | 2156+47

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2120+15 PI – 15°49'21" LT
STA. 2120+15 SEPTIC TANK, 49 FT. RIGHT
STA. 2121+44 WATER WELL, 97 FT. RIGHT
STA. 2121+75 ABVEGROUND TELEPHONE
STA. 2121+100 MLV03
STA. 2121+85 TOP BANK
STA. 2121+87 ROAD EDGE
STA. 2121+88 POWERLINE, KILLINGER RD CENTERLINE
STA. 2122+00 TOE BANK
STA. 2122+09 ROAD EDGE
STA. 2122+15 TOE BANK
STA. 2122+21 UNDERGROUND TELEPHONE
STA. 2122+22 TOP BANK
STA. 2122+31 POWERLINE
STA. 2122+67 CLASS 1 / CLASS 2 FT
STA. 2122+79 UNDERGROUND LEACH FIELD
STA. 2123+39 WATER WELL, 63 FT. RIGHT
STA. 2123+95 SEPTIC TANK, 86 FT. RIGHT
STA. 2124+00 FENCE
STA. 2124+54 PI – 28°27'55" RT

STA. 2138+61 PI – 58°59'39" RT

STA. 2143+31 PI – 30°15'5" LT
STA. 2145+27 FENCE

STA. 2148+64 PI – 45°0'0" RT
STA. 2149+72 TANK BATTERY, 500 FT. LEFT
STA. 2149+85 OIL WELL, 485 FT. LEFT
STA. 2151+36 FENCE
STA. 2152+00 ROAD EDGE
STA. 2152+04 TOE BANK
CENTERLINE (SCALED)
STA. 2152+11 ROAD EDGE
STA. 2152+16 TOE BANK
STA. 2152+20 DITCH DEPTH UNKNOWN
STA. 2152+26 FENCE
STA. 2152+83 PI – 14°45'41" LT
STA. 2154+59 PI – 11°38'2" LT

CLASS LOCATION

CLASS 2

PIPE MATERIAL

PROJECT MODIFICATION TABLE

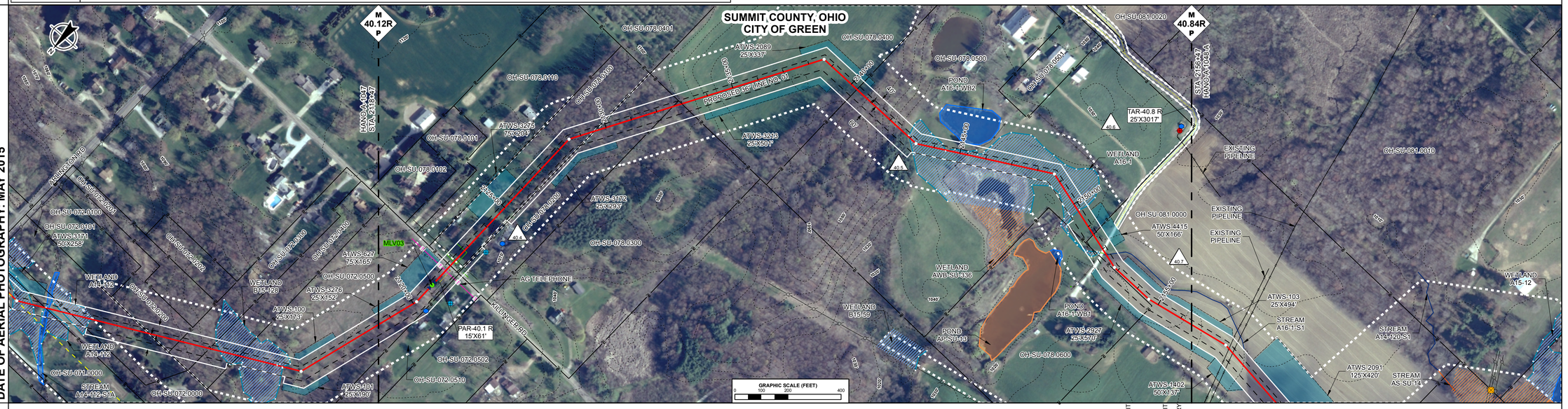
PROJ. MOD. NUMBER	DESCRIPTION
40.4	TWS ADJUSTED TO REDUCE RESIDENTIAL IMPACTS.
40.5	ATWS/TWS AND RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.
40.6	TAR 40.8R ADJUSTED TO EXCLUDE EXISTING PUBLIC ROAD.

PROJ. MOD. NUMBER	DESCRIPTION
40.7	RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R) SITE
- COMPRESSOR STATION SITE
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 2142+80 WETLAND A16-1 ENTER
STA. 2150+38 WETLAND A16-1 EXIT
STA. 2151+60 WETLAND A16-1 ENTER
STA. 2152+08 WETLAND A16-1 EXIT
STA. 2152+83 PERENNIAL CROSSING OF STREAM A16-1-S1 TRIBUTARY TO NIMISILA RESERV/OIR

E & S TYPICALS

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PROFILE

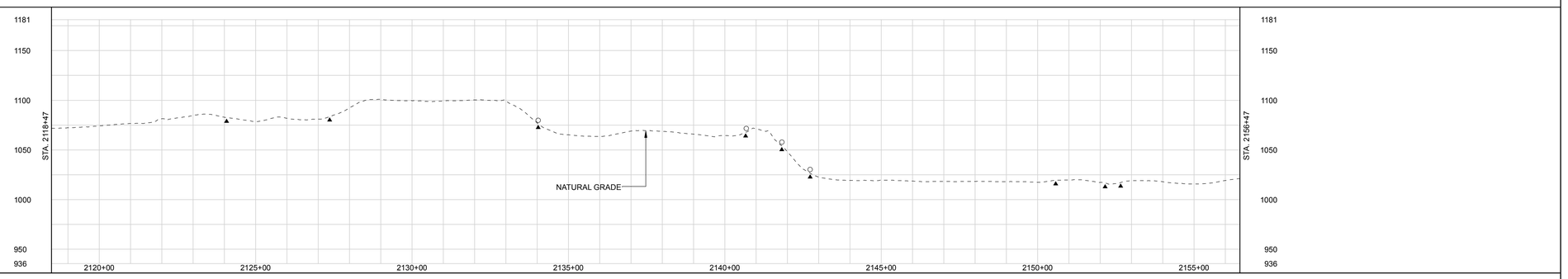
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG AGRICULTURAL | OL OPEN LAND | I/C INDUSTRIAL/COMMERCIAL
F/W FOREST/WOODLAND | R RESIDENTIAL | O/W OPEN WATER

| | | |

RIGHT-OF-WAY

TRACT NUMBERS

2156+47 | OH-SU-081.0000 50.2 RODS 828 FT. | 2164+75 | OH-SU-082.0000 63.2 RODS 1042 FT. | 2175+17 | EXISTING OHSU-083.0000 | OH-SU-085.0000 60.5 RODS 999 FT. | 2185+16 | OH-SU-088.0000 11.9 RODS 197 FT. | 2187+13 | OH-SU-089.0000 12.2 RODS 201 FT. | 2189+14 | OH-SU-090.0000 20.6 RODS 340 FT. | 2192+54

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2157+96 PI - 18°00'00" RT
STA. 2158+15 GAS PL
STA. 2158+36 PIPELINE
STA. 2159+14 TOP BANK
STA. 2159+22 DITCH, DEPTH
STA. 2159+29 TOP BANK
STA. 2159+76 GAS WELL, 303 FT. FROM CENTERLINE
STA. 2159+80 TANK BATTERY, 317 FT. RIGHT
STA. 2162+56 HDD ENTRY
STA. 2165+80 TOWER, 643 FT. LEFT
STA. 2170+36 POWERLINE (SCALED)
STA. 2170+53 POWERLINE (SCALED)
STA. 2170+69 POWERLINE (SCALED)
STA. 2173+37 TOP BANK
STA. 2175+11 CHRISTMAN RD CENTERLINE (SCALED)
STA. 2180+32 HDD EXIT
STA. 2185+23 WELL, 119 FT. LEFT
STA. 2186+21 ROAD EDGE
STA. 2186+26 GRAVEL, NONE
STA. 2186+31 EDGE
STA. 2186+32 ROAD EDGE
STA. 2190+82 PI - 24°25'41" RT

CLASS LOCATION

CLASS 1 | CLASS 2

PIPE MATERIAL

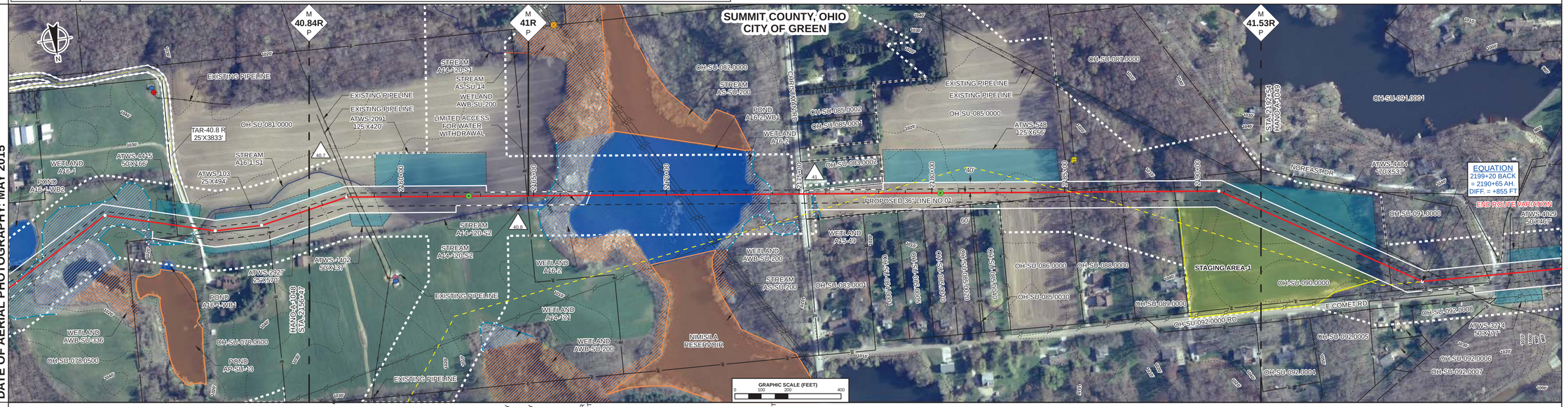
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
40.7	RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.
40.8	RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.
41	TWS ADJUSTED BASED ON UPDATED CIVIL FIELD SURVEY.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
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- PERMANENT ROW
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- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
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- WATER PIPELINE
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- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS / WATER / OIL / UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 2164+28 STREAM TRIBUTARY TO NIMISILA RESERVOIR A-14-120-S2 ENTER
STA. 2165+42 STREAM TRIBUTARY TO NIMISILA RESERVOIR A-14-120-S2 EXIT
STA. 2165+42 WETLAND A16-2 ENTER
STA. 2166+68 POND NIMISILA RESERVOIR A16-2-WB1 ENTER
STA. 2167+05 WETLAND A16-2 EXIT
STA. 2173+11 WETLAND A16-2 ENTER
STA. 2173+21 POND NIMISILA RESEVOIR A16-2-WB1 EXIT
STA. 2173+98 WETLAND A16-2 EXIT
STA. 2175+33 WETLAND A15-49 ENTER
STA. 2175+72 WETLAND A15-49 EXIT

E & S TYPICALS

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PROFILE

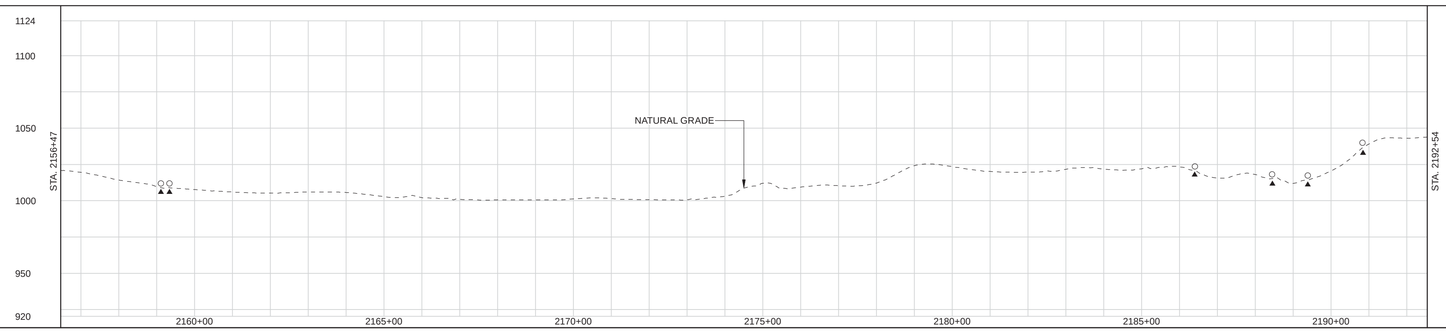
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG AGRICULTURAL | OL OPEN LAND | I/C INDUSTRIAL/COMMERCIAL
F/W FOREST/WOODLAND | R RESIDENTIAL | OW OPEN WATER

| SOILS | | |

RIGHT-OF-WAY

TRACT NUMBERS

2192+54	OH-SU-090.0000 32.1 RODS 529 FT.	2197+83	OH-SU-091.0000 23.3 RODS 385 FT.	2193+12	OH-SU-092.0000-RD 5.2 RODS 85 FT.	2193+97	OH-SU-093.0000 49.6 RODS 819 FT.	2202+16	OH-SU-094.0000 22.5 RODS 371 FT.	2205+87	OH-SU-095.0000 24.5 RODS 405 FT.	2209+92	OH-SU-096.0000 18.7 RODS 309 FT.	2213+01	OH-SU-097.0000 65.8 RODS 1086 FT.	2223+87 (ALSO END OF OH-SU-098.0000)	OH-SU-099.0000 2.5 RODS 42 FT.	2224+29	OH-SU-100.0000 8.8 RODS 146 FT.	2225+75	OH-SU-101.0000 44.5 RODS 734 FT.	2233+09

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2190+64 PI = 29°28'41" LT
STA. 2191+48 GAS PL
STA. 2192+36 ROAD EDGE
STA. 2193+58 E COMET RD CENTERLINE (SCALED)
STA. 2194+07 ROAD EDGE (SCALED)
STA. 2194+09 TOP BANK
STA. 2195+04 TOE BANK
STA. 2197+08 TOE BANK
STA. 2197+54 TOP BANK
STA. 2198+88 TOP BANK
STA. 2199+37 TOE BANK
STA. 2201+20 TOP BANK
STA. 2201+70 TOE BANK
STA. 2201+86 TOP BANK
STA. 2202+71 TOP BANK
STA. 2203+62 TOP BANK
STA. 2213+43 GAS PL
STA. 2213+62 GAS PL
STA. 2215+30 PI = 29°59'53" LT
STA. 2216+18 TOP BANK
STA. 2216+23 DITCH DEPTH 10 FT. CENTERLINE
STA. 2216+30 TOP BANK
STA. 2220+58 DRIVEWAY
STA. 2220+64 DRIVEWAY CENTERLINE (SCALED)
STA. 2220+77 DRIVEWAY EDGE
STA. 2220+79 WELL, 97 FT. LEFT
STA. 2222+39 PI = 45°03" RT
STA. 2223+65 SEWER
STA. 2223+87 MUNICIPALITY LINE
STA. 2223+89 S MAIN ST CENTERLINE (SCALED)
STA. 2224+05 ROAD EDGE
STA. 2224+17 POWERLINE (SCALED)
STA. 2226+10 PI = 24°26'05" RT
STA. 2226+36 PI = 90°01'1" LT
STA. 2226+97 PI = 14°22'28" RT
STA. 2227+75 PI = 9°28'24" RT
STA. 2229+15 PI = 5°45'8" RT
STA. 2230+50 SEPTIC TANK, 148 FT. RIGHT
STA. 2230+56 DRIVEWAY CENTERLINE (SCALED)
STA. 2230+73 PI = 7°14'36" LT
STA. 2230+79 DRIVEWAY EDGE
STA. 2231+90 DRIVEWAY EDGE
STA. 2231+70 DRIVEWAY EDGE
STA. 2232+06 WATER WELL, 173 FT. RIGHT
STA. 2232+39 PI = 2°17'20" LT

CLASS LOCATION

CLASS 2

PIPE MATERIAL

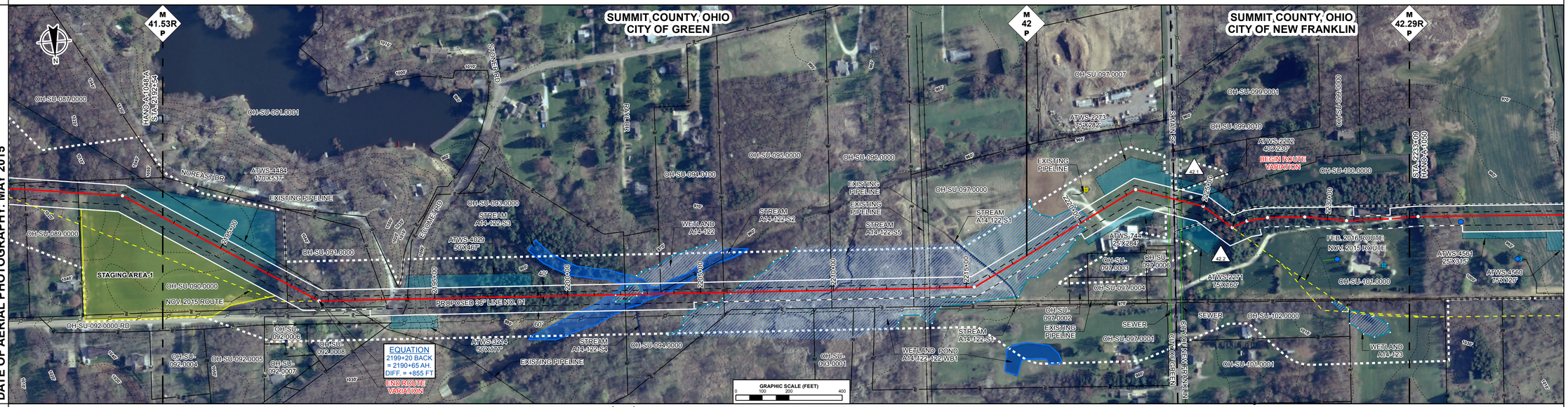
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
42.1	ATWS ADJUSTED TO REDUCE RESIDENTIAL IMPACTS.
42.2	CENTERLINE REROUTED DUE TO LANDOWNER REQUEST. TWS/ATWS AND RESOURCES UPDATED. (2,130 FT)

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - PREVIOUS ROUTE
- PROPOSED NEXUS PIPELINE
- INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R) SITE
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- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
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- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
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- POWERLINE
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- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
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- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 2200+46 STREAM NIMISILA CREEK A14-122-S2 ENTER
STA. 2201+80 WETLAND A14-122 ENTER
STA. 2202+04 STREAM, TRIBUTARY TO NIMISILA CREEK A14-122-S3 ENTER
STA. 2202+21 STREAM TRIBUTARY TO NIMISILA CREEK A14-122-S3 EXIT
STA. 2202+61 WETLAND A14-122 EXIT
STA. 2203+01 WETLAND A14-122 ENTER
STA. 2203+67 WETLAND A14-122 EXIT
STA. 2204+49 STREAM NIMISILA CREEK A14-122-S2 EXIT
STA. 2205+87 WETLAND A14-122 ENTER
STA. 2210+02 CENTERLINE OF STREAM A14-122-S5 TRIBUTARY TO NIMISILA CREEK
STA. 2216+28 CENTERLINE OF STREAM A14-122-S5 TRIBUTARY TO NIMISILA CREEK
STA. 2220+34 WETLAND A14-122 EXIT

E & S TYPICALS

E&S TYPICALS WILL BE USED AS A PLAN AND WILL HAVE FURTHER INPUT FROM ENVIRONMENTAL INSPECTOR.

PROFILE

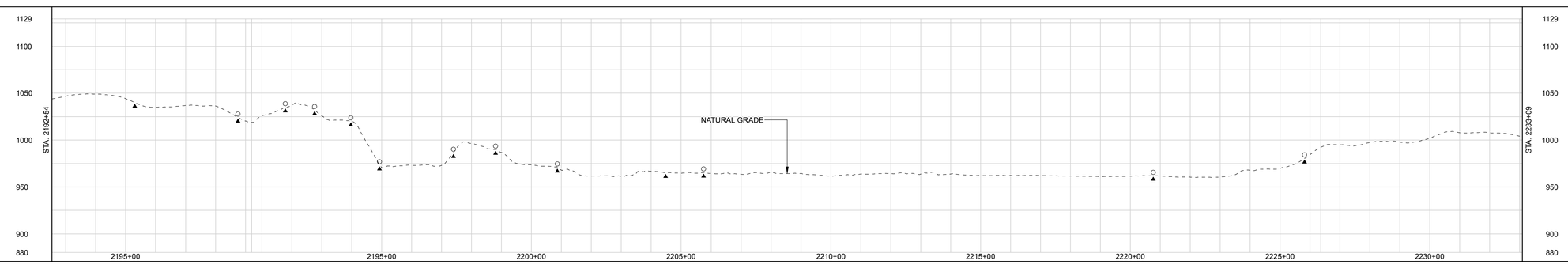
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG AGRICULTURAL; OL OPEN LAND; I/C INDUSTRIAL/COMMERCIAL
F/W FOREST/WOODLAND; R RESIDENTIAL; OW OPEN WATER

| SOILS | | |

RIGHT-OF-WAY

TRACT NUMBERS

2233+09	OH-SU-101.0000 73.7 RODS 1216 FT.	2245+25	OH-SU-106.0000 12.5 RODS 207 FT.	2247+32	OH-SU-107.0000 15.2 RODS 251 FT.	2249+41	OH-SU-108.0000 17.6 RODS 291 FT.	2252+32	EXISTING 100.000 RW	OH-SU-110.0000 21.5 RODS 354 FT.	2255+86	OH-SU-111.0000 17.5 RODS 289 FT.	2259+75	OH-SU-112.0000 6.2 RODS 103 FT.	2259+78	OH-SU-113.0000 6.7 RODS 110 FT.	2260+88	OH-SU-114.0000 11.0 RODS 181 FT.	2262+69	OH-SU-115.0000 12.0 RODS 198 FT.	2264+67	OH-SU-116.0000 12.1 RODS 199 FT.	2266+66	OH-SU-117.0000 12.0 RODS 198 FT.	2268+64	OH-SU-118.0000 6.1 RODS 100 FT.	2269+64	OH-SU-119.0000 6.0 RODS 99 FT.	2270+63	OH-SU-120.0000 6.0 RODS 99 FT.	2271+62	OH-SU-121.0000 6.1 RODS 100 FT.	2272+62	OH-SU-122.0000 13.3 RODS 220 FT.	2274+82	OH-SU-123.0000 8.7 RODS 144 FT.	2276+26	OH-SU-124.0000 19.0 RODS 314 FT.	2279+40	OH-SU-126.0000 26.4 RODS 436 FT.	2283+76

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2233+42 PI – 74°48'38" RT
STA. 2233+52 BEG DRIVEWAY EDGE
STA. 2234+51 POWERLINE VERT. CLEARANCE 11 FT.
STA. 2235+02 SEPTIC TANK, 22 FT. RIGHT
STA. 2237+14 SEPTIC TANK, 184 FT. RIGHT
STA. 2237+23 WATER WELL, 184 FT. RIGHT
STA. 2239+54 TOP BANK
STA. 2239+78 TOP BANK
STA. 2240+41 PI – 34°59'26" RT
STA. 2243+04 PI – 11°56'21" RT
STA. 2245+12 GAS PL
STA. 2245+18 PIPELINE (SCALED)
STA. 2246+18 PI – 60°03'0" LT
STA. 2247+53 PI – 15°27'42" RT
STA. 2249+23 PIPELINE (SCALED)
STA. 2251+32 PI – 61°37'45" LT
STA. 2252+12 POWERLINE VERT. CLEARANCE 29 FT.
STA. 2252+20 ROAD EDGE
STA. 2252+39 MYERS RD CENTERLINE
STA. 2252+39 BEG UNDERGROUND APPROXIMATE LEACH FIELD
STA. 2253+45 UNDERGROUND APPROXIMATE LEACH FIELD
STA. 2258+90 PI – 4°54'3" RT
STA. 2259+88 PI – 29°59'39" RT
STA. 2260+48 GAS PL
STA. 2260+58 STORAGE TANK, 141 FT. RIGHT
STA. 2261+14 PI – 29°59'59" LT
STA. 2274+82 FENCE
STA. 2279+76 PIPELINE (SCALED)

CLASS LOCATION

CLASS 2 | CLASS 3

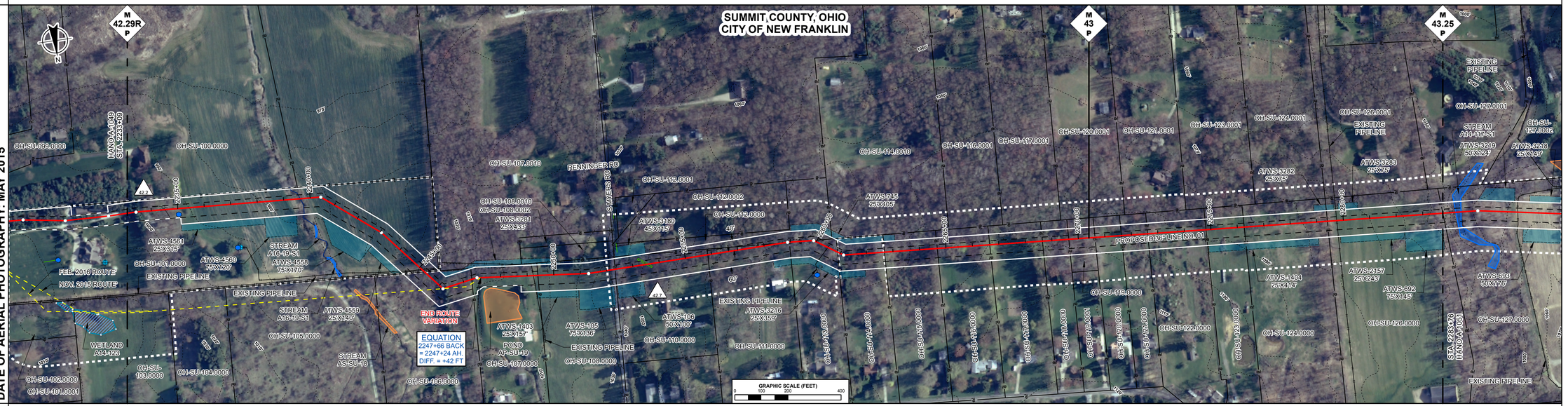
PIPE MATERIAL

PROJECT MODIFICATION TABLE	
PROJ. MOD. NUMBER	DESCRIPTION
42.2	CENTERLINE REROUTED DUE TO LANDOWNER REQUEST. TWS/ATWS AND RESOURCES UPDATED. (2,130 FT)
42.7	ATWS ADJUSTED DUE TO LANDOWNER REQUEST.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - PREVIOUS ROUTE
- PROPOSED NEXUS PIPELINE
- INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R) SITE
- COMPRESSOR STATION SITE
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS / WATER / OIL / UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 2239+63 CENTERLINE OF STREAM A16-19-S1 TRIBUTARY TO NIMISILA CREEK

E & S TYPICALS

E&S TYPICALS WILL BE USED AS A PLAN AND WILL HAVE FURTHER INPUT FROM ENVIRONMENTAL INSPECTOR.

PROFILE

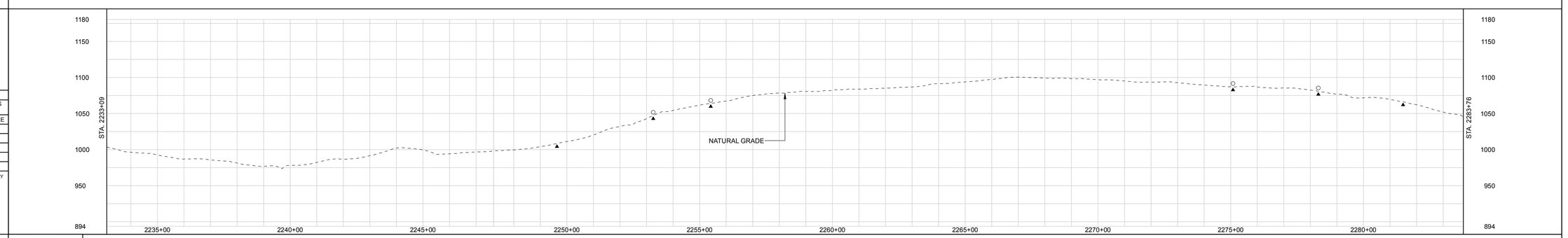
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG AGRICULTURAL | OL OPEN LAND | I/C INDUSTRIAL/COMMERCIAL
F/W FOREST/WOODLAND | R RESIDENTIAL | OW OPEN WATER

| SOILS | | |

RIGHT-OF-WAY

TRACT NUMBERS

2283+76	OH-SU-127.0000	2295+94	OH-SU-135.0600	2302+09	OH-SU-135.0500	2304+91	OH-SU-135.0400	2307+38	OH-SU-135.0300	2311+66	OH-SU-135.0200	2320+12	OH-SU-135.0100	2320+83	OH-SU-135.0000	2333+83
	73.8 RODS 1218 FT.		37.3 RODS 615 FT.		17.1 RODS 282 FT.		15.0 RODS 247 FT.		25.9 RODS 428 FT.		51.3 RODS 846 FT.		4.3 RODS 71 FT.		75.2 RODS 1240 FT.	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2285+00 PI - 5°57'28" RT	STA. 2286+59 GAS P/L	STA. 2290+00 PI - 13°43'36" LT	STA. 2293+62 PI - 19°59'59" LT	STA. 2294+26 GAS P/L	STA. 2294+79 PI - 20°00'0" LT	STA. 2295+69 GAS P/L	STA. 2297+34 PI - 45°00'0" RT	STA. 2300+93 PI - 9°24'41" LT	STA. 2301+45 POWERLINE VERT. CLEARANCE 15 FT.	STA. 2301+96 ROAD EDGE	STA. 2302+12 PAVED MANCHESTER RD CENTERLINE	STA. 2302+28 ROAD EDGE	STA. 2304+54 PI - 6°9'58" RT	STA. 2305+23 FENCE	STA. 2307+36 FENCE	STA. 2307+42 POWERLINE	STA. 2307+44 DRIVEWAY EDGE	STA. 2307+46 DRIVEWAY CENTERLINE	STA. 2307+53 DRIVEWAY EDGE	STA. 2307+68 WATER WELL. 86 FT. LEFT	STA. 2307+68 WATER WELL. 101 FT. RIGHT	STA. 2308+78 SEPTIC TANK. 109 FT. RIGHT	STA. 2309+00 SEPTIC TANK. 109 FT. RIGHT	STA. 2309+65 FENCE	STA. 2309+88 PI - 19°24'50" RT	STA. 2313+41 GAS P/L	STA. 2315+38 PI - 14°5'40" LT	STA. 2318+44 PI - 1°57'3" RT	STA. 2326+18 PI - 2°56'48" LT	STA. 2332+13 PI - 16°30'28" LT	STA. 2333+04 PIPELINE	STA. 2333+32 PI - 20°0'0" RT

CLASS LOCATION

CLASS 3 | CLASS 2

PIPE MATERIAL

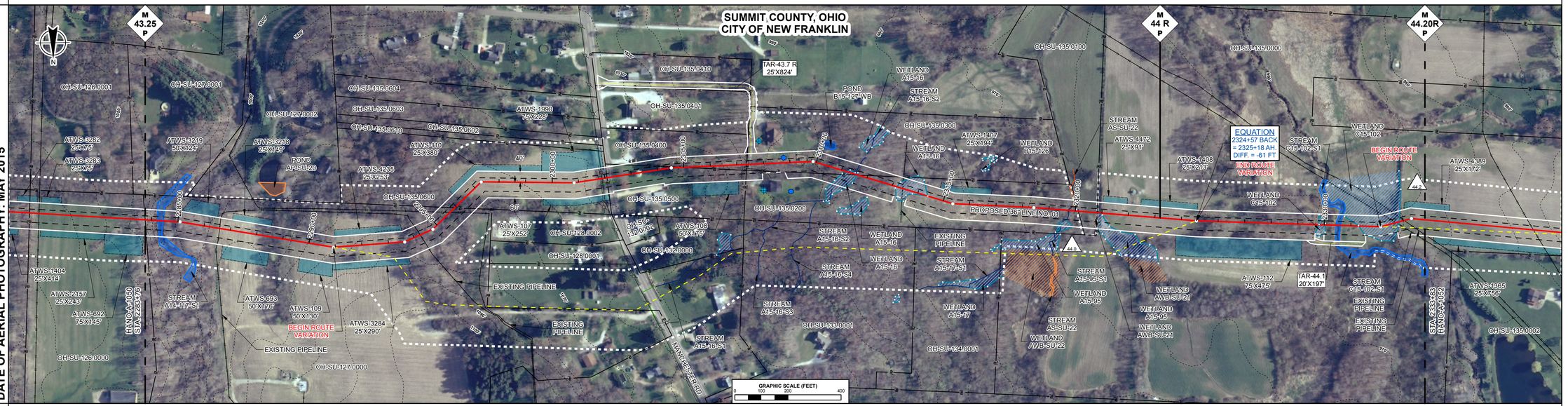
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
44.0	RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.
44.2	ATWS/TWS, TAR 44.1, AND RESOURCES UPDATED BASED ON WETLAND FIELD SURVEY.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R) SITE
- COMPRESSOR STATION SITE
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 2284+20 STREAM TRIBUTARY TO NIMISILA CREEK AT 47.7° TO A14-117-S1 EXIT	STA. 2284+50 STREAM TRIBUTARY TO NIMISILA CREEK A14-117-S1 EXIT	STA. 2310+78 WETLAND A15-16 ENTER	STA. 2311+62 WETLAND A15-16 EXIT	STA. 2313+14 WETLAND A15-16 ENTER	STA. 2314+39 WETLAND A15-16 EXIT	STA. 2319+38 WETLAND A15-95 ENTER	STA. 2319+75 CENTERLINE OF TRIBUTARY TO NIMISILA CREEK	STA. 2320+90 WETLAND A15-95 EXIT	STA. 2320+74 WETLAND A15-95 ENTER	STA. 2320+83 WETLAND A15-95 EXIT	STA. 2320+85 WETLAND A15-95 ENTER	STA. 2321+65 WETLAND A15-95 EXIT	STA. 2329+67 WETLAND C15-102 ENTER	STA. 2330+03 WETLAND C15-102 EXIT	STA. 2330+44 TRIBUTARY TO NIMISILA CREEK C15-102-S1 ENTER	STA. 2330+54 TRIBUTARY TO NIMISILA CREEK C15-102-S1 EXIT	STA. 2330+88 WETLAND C15-102 ENTER	STA. 2332+97 WETLAND C15-102 EXIT

E & S TYPICALS

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PROFILE

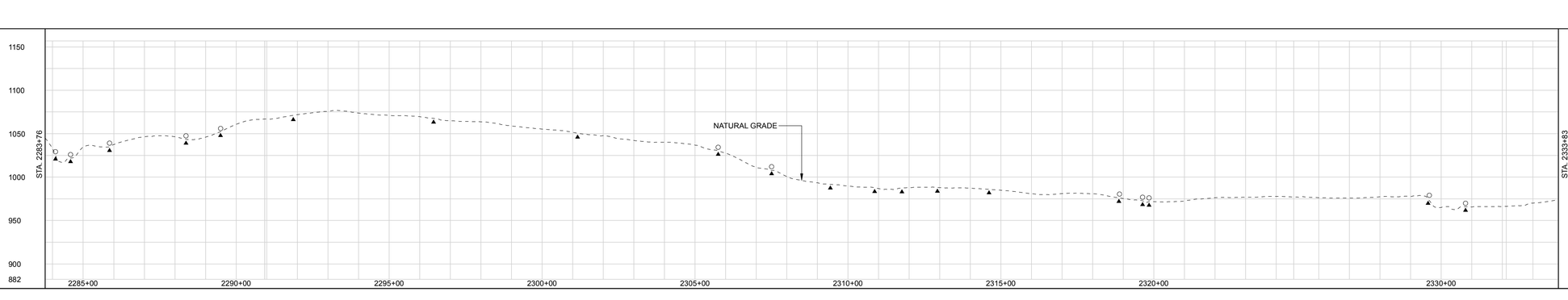
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OL	OPEN LAND	I/C	INDUSTRIAL/COMMERCIAL	**LAND USE**	F/W OW F/W AG F/W AG F/W AG OL I/C R F/W R F/W OL F/W OL F/W OL F/W OL F/W OL AG F/W OL F/W OL F/W OL F/W OL OW AG OL AG
F/W	FOREST/WOODLAND	R	RESIDENTIAL	OW	OPEN WATER	**% SLOPE**	15-30% 45-60% 15-30% <5% 5-15% <5% 5-15% <5% 5-15% 15-30% 5-15% <5% 5-15% <5% 5-15% <5% 5-15% <5% 5-15% <5% 5-15% <5% 5-15% 15-30% 5-15% <5% 5-15% <5% 5-15% <5% 5-15% 15-30% 5-15% <5% 5-15% <5% 5-15%

SOILS

| | | | | | | | | | | | | | | | | | | |

RIGHT-OF-WAY

TRACT NUMBERS

2333+83	OH-SU-135.0000	2341+56 (2340+34 BK)	OH-SU-137.0000	2345+84	OH-SU-138.0000	2358+03	OH-SU-139.0000	2359+73	OH-SU-140.0000	2361+43	OH-SU-141.0000	2363+14	OH-SU-142.0000	2365+30	OH-SU-143.0000	2371+91 (2371+46 BK)	OH-SU-145.0000	2374+90	OH-SU-146.0000	2377+89	OH-SU-147.0000	2379+51	OH-SU-148.0000	2383+76
	47.2 RODS 779 FT.		25.9 RODS 428 FT.		73.9 RODS 1219 FT.		10.3 RODS 170 FT.		10.3 RODS 170 FT.		10.4 RODS 171 FT.		13.1 RODS 216 FT.		40.1 RODS 661 FT.		18.1 RODS 299 FT.		18.1 RODS 299 FT.		3.8 RODS 62 FT.		31.8 RODS 525 FT.	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2337+93 PIPELINE (SCALED)

STA. 2340+34 PI – 2°42'3" LT
STA. 2341+33 TOE BANK
STA. 2341+51 TOP BANK
STA. 2341+53 ROAD EDGE
STA. 2341+65 PAVED, HAMPSHIER RD
STA. 2341+70 CENTERLINE
STA. 2341+78 ROAD EDGE
STA. 2341+80 DITCH, DEPTH 0
STA. 2341+84 FENCE
STA. 2341+84 POWERLINE
VERT. CLEARANCE 20 FT.

STA. 2345+43 GAS WELL, 113 FT. LEFT
STA. 2345+48 TANK BATTERY, 100 FT. LEFT
STA. 2345+83 FENCE

STA. 2347+43 FENCE
STA. 2347+70 GAS PL
STA. 2347+81 GAS PL

STA. 2357+03 PI – 89°39'39" RT
STA. 2357+99 GAS PL

STA. 2364+17 PI – 60°03" LT
STA. 2365+14 GAS PL

STA. 2368+56 GAS PL
STA. 2368+99 TANK BATTERY, 186 FT. LEFT

STA. 2371+43 PI – 4°33'3" RT
STA. 2371+73 POWERLINE
VERT. CLEARANCE 20 FT.
STA. 2371+86 ROAD EDGE
STA. 2371+96 PAVED, GROVE
STA. 2372+05 CENTERLINE
STA. 2372+08 ROAD EDGE

STA. 2378+72 PI – 3°13'48" RT
STA. 2379+53 GAS PL

CLASS LOCATION

CLASS 2

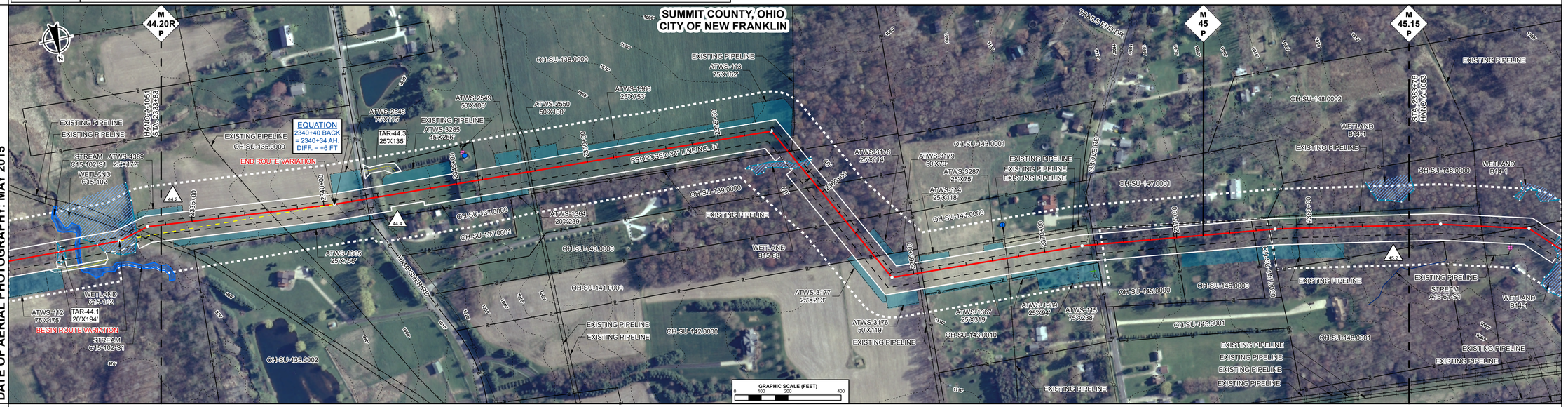
PIPE MATERIAL

PROJECT MODIFICATION TABLE	
PROJ. MOD. NUMBER	DESCRIPTION
44.2	ATWS/TWS, TAR 44.1, AND RESOURCES UPDATED BASED ON WETLAND FIELD SURVEY.
44.4	TWS ADJUSTED TO REDUCE RESIDENTIAL IMPACTS.
45.2	ATWS/TWS AND RESOURCES UPDATED BASED ON WETLAND FIELD SURVEY.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
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- FACILITIES PERMANENT WORKSPACE
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- DELINEATED WATERBODY CENTERLINE
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- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 2358+21 WETLAND B15-88 ENTER
STA. 2359+89 WETLAND B15-88 EXIT

E & S TYPICALS

E&S TYPICALS WILL BE USED AS A PLAN AND WILL HAVE FURTHER INPUT FROM ENVIRONMENTAL INSPECTOR.

PROFILE

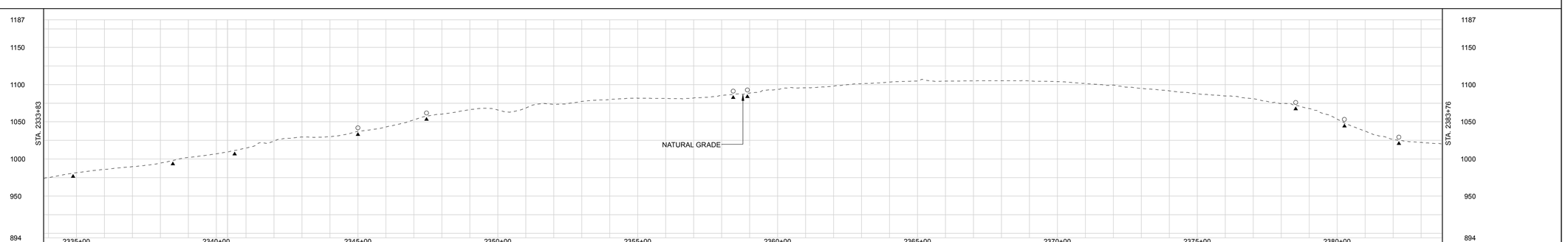
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
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		> 30%	100 FT

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LAND USE CLASSIFICATION

AG	AGRICULTURAL	OL	OPEN LAND	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	O/W	OPEN WATER

SOILS																															
LAND USE		AG				I/C		OL				AG					F/W		AG	F/W		AG			I/C	R		F/W			
% SLOPE		5-15%		<5%		5-15%		<5%		5-15%		<5%	5-15%	<5%	5-15%		<5%	5-15%		<5%		5-15%		<5%		5-15%		<5%	15-30%	5-15%	<5%

P:\205_UPSTREAM_PIPELINE\205X_CIS\TurboRoute\NEXUS PROPOSED MAINLINE PIPELINE 552 of 276.pdf - PLOT TIME: 2016-08-04 11:08:41

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM	DESCRIPTION	QTY
REFERENCE DRAWINGS		REVISIONS				MATERIALS		

REV	DSN	CK	DESCRIPTION
3			ISSUED FOR FERC (08/2016)
2			ISSUED FOR P3 (03/2016)
1A			ISSUED FOR FERC (02/2016)
1			ISSUED FOR FERC (02/2016)
0B			ISSUED FOR FERC FILING (11/2015)
0A			ISSUED FOR FERC FILING (11/2015)
0			ISSUED FOR FERC FILING (11/2015)

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
NAME	SIGNATURE	DATE	SIGNATURE	DATE

HANO - WADS
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS SM GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	HANO-A-1052	REV. 3

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

2383+76	OH-SU-148.0000	2387+95	OH-SU-149.0000	2393+91	OH-SU-150.0000	2400+37	OH-SU-151.0000	OH-SU-152.0000	2403+74	OH-SU-153.0000	2409+96	OH-SU-154.0000	2416+06	OH-SU-155.0000	2433+76
	25.4 RODS 419 FT.		36.1 RODS 596 FT.		39.2 RODS 646 FT.		0.3 RODS 5 FT.	20.4 RODS 337 FT.		37.7 RODS 622 FT.		37.0 RODS 610 FT.		107.3 RODS 1770 FT.	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2384+96 PI – 4°36'6" RT
STA. 2386+48 PIPELINE
STA. 2386+51 GAS PL
STA. 2387+62 GAS WELL, 75 FT. RIGHT
STA. 2388+28 FENCE
STA. 2388+28 PI – 30°0'0" RT
STA. 2393+97 FENCE
STA. 2394+12 FENCE
STA. 2394+43 PIPELINE
STA. 2395+01 PI – 44°59'59" RT
STA. 2395+72 GAS PL
STA. 2395+86 UNK PL
STA. 2396+15 GAS PL
STA. 2396+25 GAS PL
STA. 2396+32 FENCE
STA. 2397+05 GAS PL
STA. 2397+21 GAS PL
STA. 2399+91 FENCE
STA. 2400+05 TOPO DEPTH
10 FT. CENTERLINE
STA. 2400+07 POWERLINE
VERT. CLEARANCE 15 FT.
STA. 2400+27 ROAD EDGE
STA. 2400-36 PAVED, W NIMISILA RD
STA. 2400+52 ROAD EDGE
STA. 2400+64 CULVERT
STA. 2401+44 PIPELINE
STA. 2402+90 PIPELINE (SCALED)
STA. 2403+32 POWERLINE
VERT. CLEARANCE LINK FT.
STA. 2403+34 SEPTIC TANK, 2 FT. FROM EOP
STA. 2403+56 GAS PL
STA. 2404+19 WATER WELL, 25 FT. RIGHT
STA. 2405+61 PI – 30°0'0" LT
STA. 2409+97 FENCE
STA. 2414+81 PI – 29°59'59" LT
STA. 2417+19 PI – 29°59'59" RT
STA. 2424+58 PI – 1°16'5" RT

CLASS LOCATION

CLASS 2

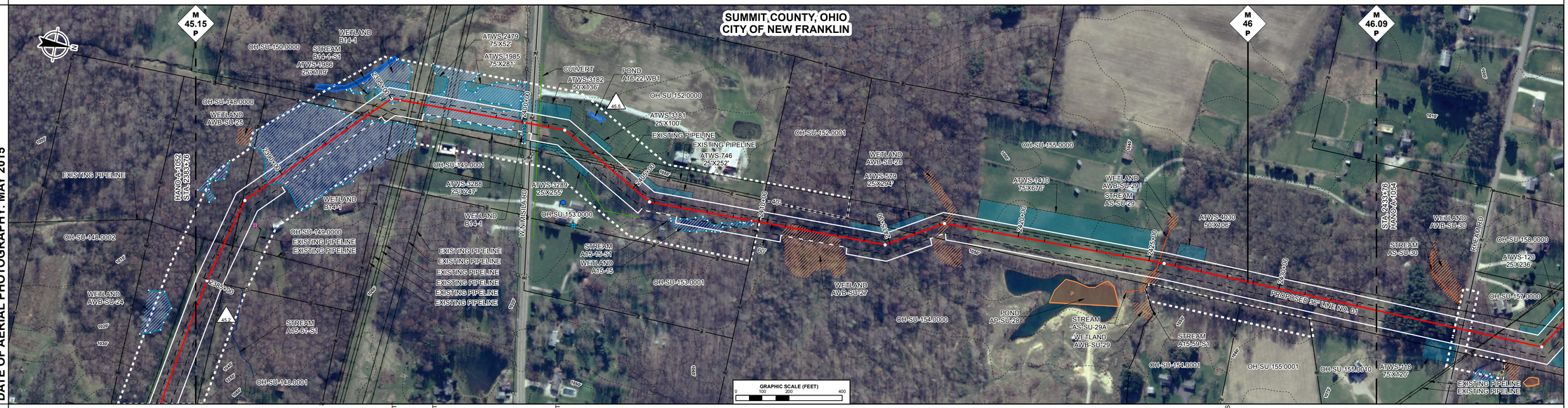
PIPE MATERIAL

PROJECT MODIFICATION TABLE	
PROJ. MOD. NUMBER	DESCRIPTION
45.2	TWS AND RESOURCES UPDATED BASED ON WETLAND FIELD SURVEY.
45.5	RESOURCE UPDATED BASED ON WATERBODY FIELD SURVEY.

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
- PROPOSED NEXUS PIPELINE INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- WAREYARD
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R) SITE
- COMPRESSOR STATION SITE
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- AGRICULTURAL PEM WETLAND BOUNDARY
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD (PAR-0.0 / TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
- BLOW OFF VALVE
- MAINLINE VALVE (MLV)
- TOWER
- MICROWAVE TOWER
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 2389+37 WETLAND B14-1 ENTER
STA. 2394+02 WETLAND B14-1 EXIT
STA. 2394+67 WETLAND B14-1 ENTER
STA. 2395+54 WETLAND B14-1 EXIT
STA. 2396+31 WETLAND B14-1 ENTER
STA. 2400+16 WETLAND B14-1 EXIT
STA. 2405+91 WETLAND A15-15 ENTER
STA. 2409+79 WETLAND A15-15 EXIT
STA. 2410+90 WETLAND AWB-SU-27 ENTER
STA. 2413+19 WETLAND AWB-SU-27 EXIT
STA. 2416+74 WETLAND AWB-SU-28 ENTER
STA. 2417+54 WETLAND AWB-SU-28 EXIT
STA. 2424+93 WETLAND AWB-SU-29 ENTER
STA. 2425+20 CENTERLINE OF STREAM AS-SU-29 TRIBUTARY TO TUSCARAWAS RIVER
STA. 2426+62 WETLAND AWB-SU-29 EXIT

E & S TYPICALS

E&S TYPICALS WILL BE USED AS A PLAN AND WILL HAVE FURTHER INPUT FROM ENVIRONMENTAL INSPECTOR.

PROFILE

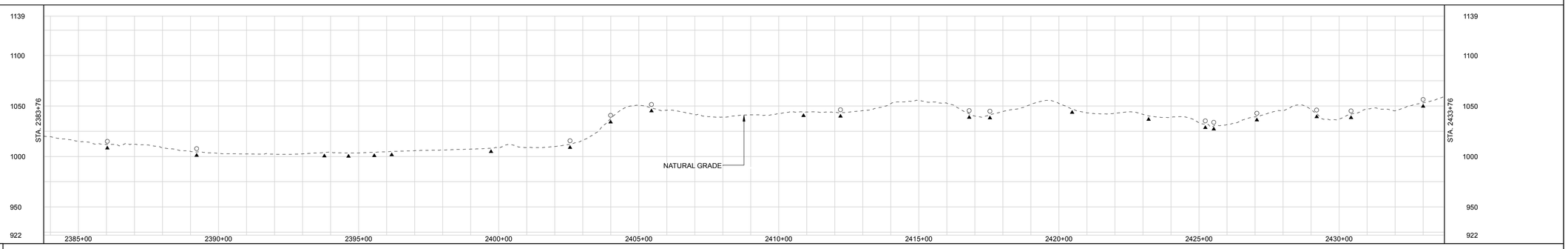
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
15-30%	200 FT	5-15%	300 FT
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OL	OPEN LAND	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	O/W	OPEN WATER

| SOILS | | | | |