RIGHT-OF-WAY

TRACT NUMBERS

2008+76	OH-SU-047.0000	2017+74	OH-SU-048.0000	2021+84	OH-SU-050.0000-RD	2022+39	OH-SU-051.0000	2026+80	OH-SU-052.0000	2029+64	OH-SU-053.0000	2030+02	OH-SU-054.0000	2037+43	OH-SU-055.0000	2040+53	OH-SU-056.0000	2040+65	OH-SU-057.0000	2047+00	OH-SU-058.0000	2051+29	OH-SU-059.0000	2051+76
	898 FT. 54.4 RODS		410 FT. 24.8 RODS		46 FT. 2.8 RODS		450 FT. 27.3 RODS		284 FT. 17.2 RODS		38 FT. 2.3 RODS		741 FT. 44.9 RODS		260 FT. 15.8 RODS		62 FT. 3.8 RODS		635 FT. 38.5 RODS		429 FT. 26.0 RODS		47 FT. 2.8 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2016+47 PI – 60°0'0" RT

STA. 2022+04 THURSBY RD CENTERLINE (SCALED)

STA. 2024+24 PI – 29°59'59" RT

STA. 2031+19 PI – 22°28'0" LT

STA. 2039+44 ROAD CENTERLINE (SCALED)

STA. 2040+31 ROAD CENTERLINE (SCALED)

STA. 2050+64 PI – 12°18'54" RT

CLASS LOCATION

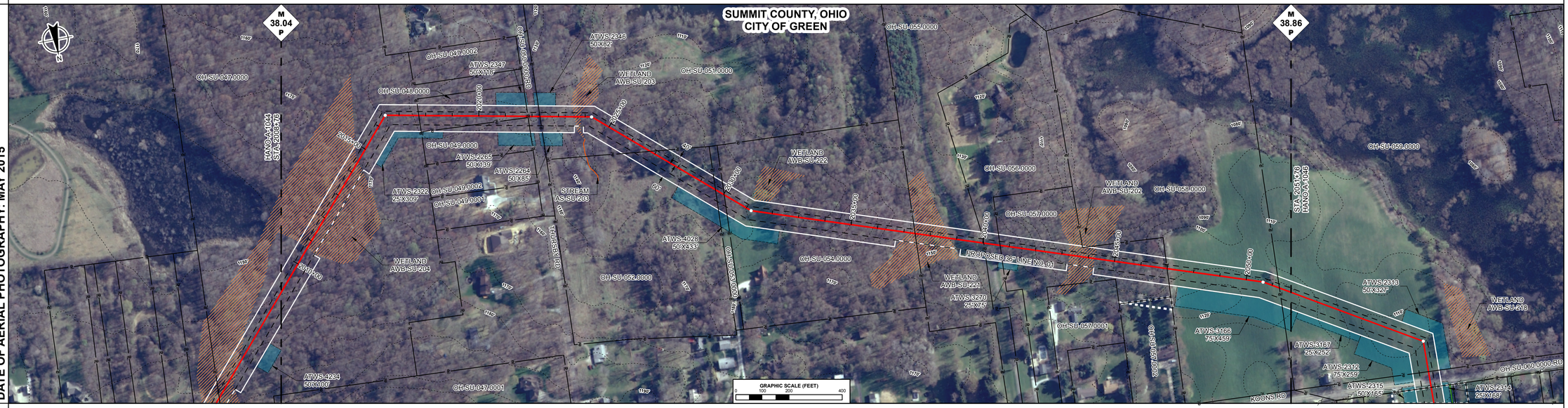
Class 2

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
- 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
- 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 (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W)
- RAILROAD TRACK
- TELEPHONE LINE (T)
- 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. 2010+64 WETLAND AWB-SU-204 ENTER

STA. 2014+93 WETLAND AWB-SU-204 EXIT

STA. 2023+48 WETLAND AWB-SU-203 ENTER

STA. 2024+05 WETLAND AWB-SU-203 EXIT

STA. 2031+66 WETLAND AWB-SU-222 ENTER

STA. 2031+78 WETLAND AWB-SU-222 EXIT

STA. 2036+80 WETLAND AWB-SU-221 ENTER

STA. 2038+98 WETLAND AWB-SU-221 EXIT

STA. 2043+22 WETLAND AWB-SU-202 ENTER

STA. 2044+26 WETLAND AWB-SU-202 EXIT

E & S TYPICALS

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

PROFILE

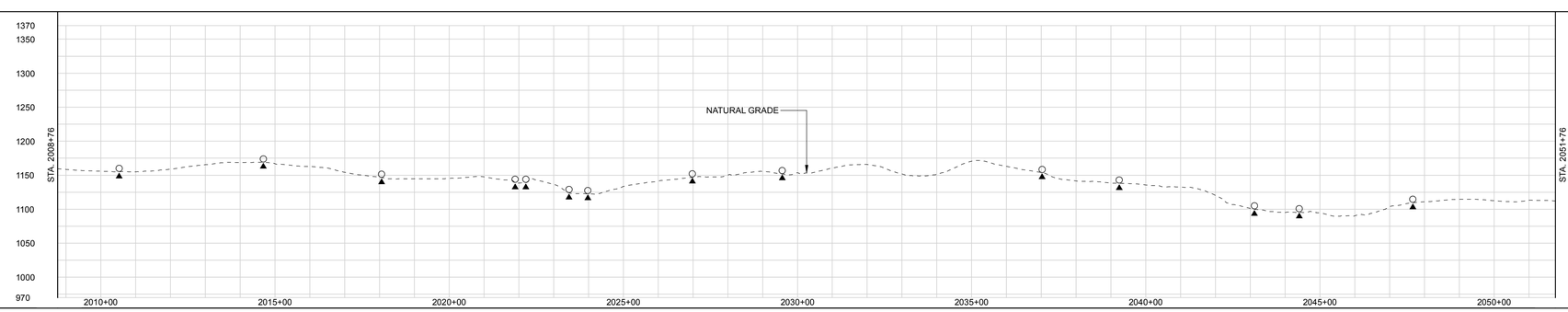
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

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	2058+22	OH-SU-060.0000-RD	2058+82	OH-SU-061.0000	2067+84	OH-SU-062.0000	2070+19	OH-SU-063.0000	2075+78	OH-SU-064.0000	2077+55	OH-SU-065.0000	2083+76
	646 FT.		60 FT.		872 FT.		265 FT.		559 FT.		177 FT.		621 FT.	
	39.2 RODS		3.6 RODS		52.8 RODS		16.1 RODS		33.9 RODS		10.7 RODS		37.6 RODS	

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+73 FIRST KOONS RD CENTERLINE
STA. 2058+73 DITCH, DEPTH 0 FT CENTERLINE
STA. 2059+61 POWERLINE. CLEARANCE 28 FT.

STA. 2064+74 PI – 30°0'0" LT

STA. 2070+99 PI – 30°0'0" RT

STA. 2079+15 PI – 22°29'59" LT

STA. 2082+98 PI – 2°0'48" RT

CLASS LOCATION

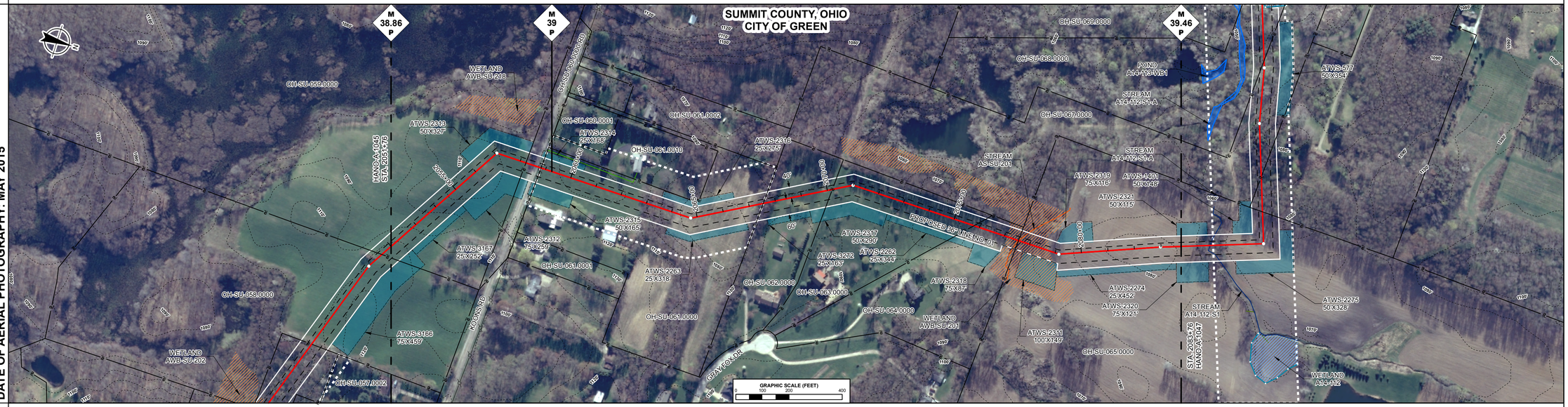
Class 2

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
- PROPOSED NEXUS PIPELINE
- INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
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- STAGING AREA
- WAREYARD
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- FACILITIES PERMANENT WORKSPACE
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- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
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- 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. 2077+04 WETLAND AWB-SU-201 ENTER
STA. 2077+55 CENTERLINE OF STREAM AS-SU-201 TRIBUTARY TO NIMISILLA RESERVOIR

STA. 2079+15 WETLAND AWB-SU-201 EXIT

E & S TYPICALS

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PROFILE

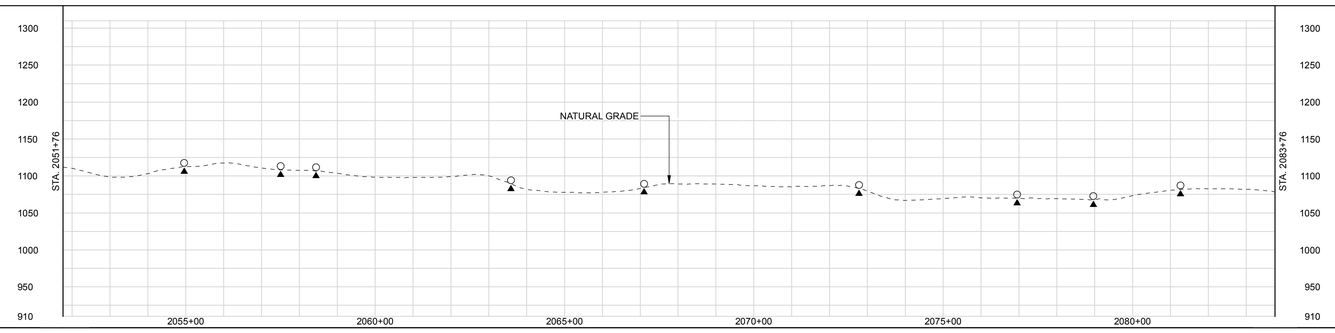
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SLOPE BREAKERS ○
TRENCH PLUG ▲

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	O/W	OPEN WATER

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

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

APPENDIX IA-4	SITE SPECIFIC RESIDENTIAL CROSSING PLANS
DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV	DSN	CK	DESCRIPTION
0A			ISSUED FOR FERC FILING (11/2015)
0			ISSUED FOR FERC FILING (11/2015)
REVISIONS			

ITEM	DESCRIPTION	QTY
MATERIALS		

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

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	HANO-A-1046	REV. 0A

P:\205_UPSTREAM_PIPELINE\290K_GIS\ToBeRouted\ NEXUS PROPOSED MAINLINE PIPELINE 846 of 276.pdf - PLOT TIME: 2015-09-11 16:46:06

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

2083+76	OH-SU-065.0000	2088+06	OH-SU-066.0000	2089+38	OH-SU-067.0000	2093+75	OH-SU-068.0000	2097+70	OH-SU-069.0000	2101+72	OH-SU-070.0000-RD	2102+31	OH-SU-071.0000	2112+99	OH-SU-072.0000	2115+68	OH-SU-073.0000	2119+01	OH-SU-074.0000	2123+58	OH-SU-075.0000	2127+94	OH-SU-076.0000	2128+82	OH-SU-077.0000	2129+36	OH-SU-078.0000-RD	2129+98	OH-SU-079.0000	2133+76
	430 FT.		132 FT.		437 FT.		395 FT.		402 FT.		59 FT.		1068 FT.		269 FT.		333 FT.		457 FT.		436 FT.		88 FT.		55 FT.		62 FT.		378 FT.	
	26.1 RODS		8.0 RODS		26.5 RODS		23.9 RODS		24.4 RODS		3.6 RODS		64.7 RODS		16.3 RODS		20.2 RODS		27.7 RODS		26.4 RODS		5.3 RODS		3.3 RODS		3.8 RODS		22.9 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2086+86 PI - 89°59'59" LT
STA. 2091+38 PI - 6°44'38" RT
STA. 2093+48 PI - 6°37'44" LT
STA. 2098+19 PI - 22°30'0" RT
STA. 2102+01 ARLINGTON RD CENTERLINE (SCALED)
STA. 2102+23 POWERLINE (SCALED)
STA. 2103+39 MLV-3
STA. 2109+56 PI - 9°2'31" LT
STA. 2120+93 PI - 45°0'0" LT
STA. 2129+66 KILLINGER RD CENTERLINE (SCALED)
STA. 2131+58 TOP BANK
STA. 2131+65 TOP BANK

CLASS LOCATION

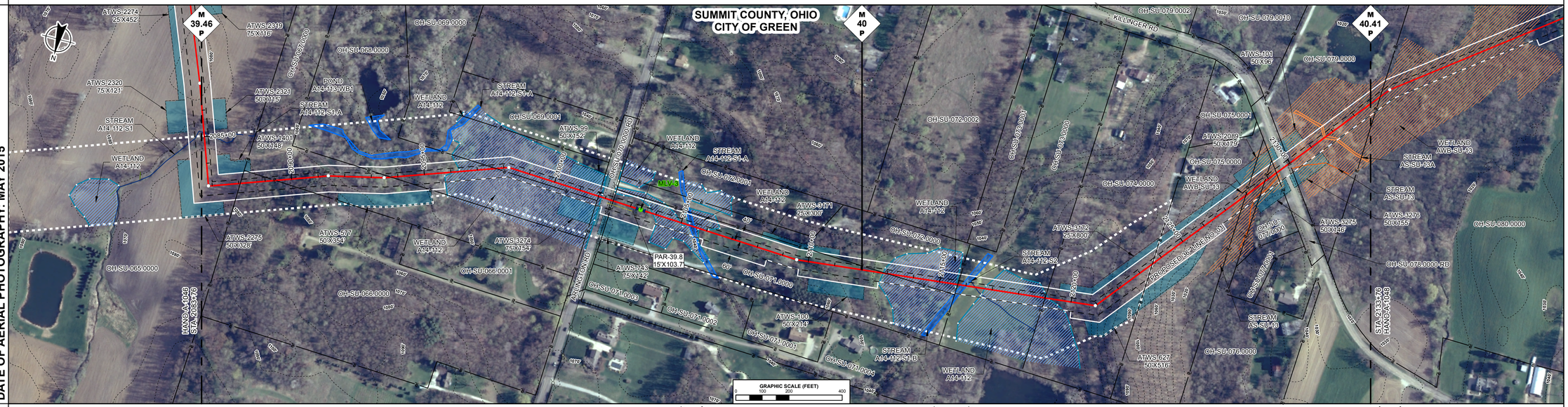
Class 2

PIPE MATERIAL

ALIGNMENT LEGEND

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- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE LINE (T—T)
- 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+85 CENTERLINE OF STREAM A14-112-S1 TRIBUTARY TO NIMISILA RESERVOIR
STA. 2095+78 WETLAND A14-112 ENTER
STA. 2101+67 WETLAND A14-112 EXIT
STA. 2102+27 WETLAND A14-112 ENTER
STA. 2103+02 WETLAND A14-112 EXIT
STA. 2103+22 WETLAND A14-112 ENTER
STA. 2105+11 STREAM TRIBUTARY TO NIMISILA RESERVOIR A14-112-S1-A ENTER
STA. 2105+31 STREAM TRIBUTARY TO NIMISILA RESERVOIR A14-112-S1-A EXIT
STA. 2106+44 WETLAND A14-112 EXIT
STA. 2113+76 WETLAND A14-112 ENTER
STA. 2115+62 STREAM TRIBUTARY TO NIMISILA RESERVOIR A14-112-S1-B ENTER
STA. 2115+72 WETLAND A14-112 EXIT
STA. 2116+29 STREAM TRIBUTARY TO NIMISILA RESERVOIR A14-112-S1-B EXIT
STA. 2116+35 CENTERLINE OF STREAM A14-112-S2 TRIBUTARY TO NIMISILA RESERVOIR
STA. 2116+58 WETLAND A14-112 ENTER
STA. 2119+74 WETLAND A14-112 EXIT
STA. 2128+93 WETLAND AWB-SU-13 ENTER
STA. 2129+72 WETLAND AWB-SU-13 EXIT
STA. 2130+45 WETLAND AWB-SU-13 ENTER
STA. 2131+59 STREAM TRIBUTARY TO NIMISILA RESERVOIR AS-SU-13A ENTER
STA. 2131+88 STREAM TRIBUTARY TO NIMISILA RESERVOIR AS-SU-13A EXIT

E & S TYPICALS

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PROFILE

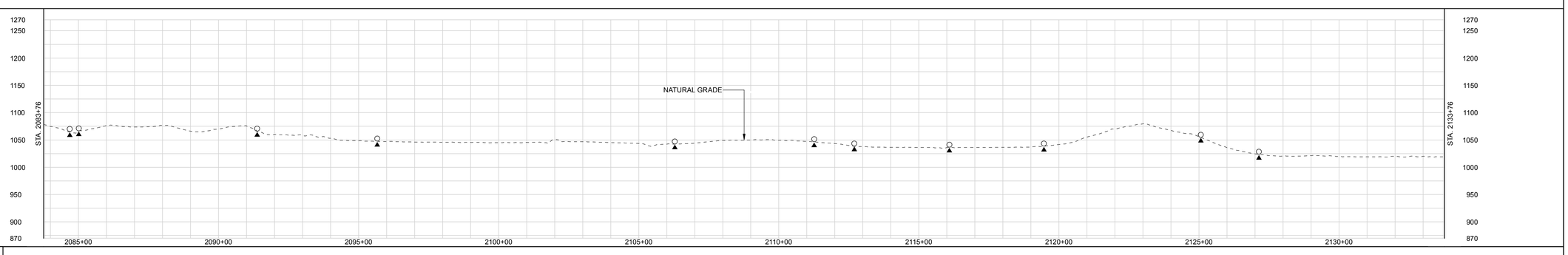
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SLOPE BREAKERS ○
TRENCH PLUG ▲

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
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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 | | |

RIGHT-OF-WAY

TRACT NUMBERS

2133+76	OH-SU-079.0000	2134+21	OH-SU-080.0000	2149+26	OH-SU-081.0000	2158+05	OH-SU-082.0000	2166+19	OH-SU-083.0000-RD	2166+87	OH-SU-085.0000	2176+80	OH-SU-088.0000	2178+92	OH-SU-089.0000	2181+13	OH-SU-090.0000	2183+76
	45 FT.		1515 FT.		869 FT.		814 FT.		68 FT.		993 FT.		212 FT.		221 FT.		263 FT.	
	2.7 RODS		91.8 RODS		52.7 RODS		49.3 RODS		4.1 RODS		60.2 RODS		12.8 RODS		13.4 RODS		15.9 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2134+65 PI – 13°28'01" RT

STA. 2146+01 DRIVEWAY EDGE
STA. 2146+14 GAS PL
STA. 2146+20 DRIVEWAY EDGE

STA. 2147+46 PI – 18°38'41" LT

STA. 2151+47 POWERLINE CLEARANCE 50 FT.

STA. 2152+75 PI – 44°59'59" RT

STA. 2152+76 GAS WELL 288 FT. LEFT
STA. 2153+78 TANK BATTERY, 288 FT. LEFT

STA. 2155+86 HDD EXIT

STA. 2162+79 POWERLINE CLEARANCE 50 FT.
STA. 2163+09 POWERLINE CLEARANCE 50 FT.
STA. 2163+48 TOP BANK
STA. 2164+27 POWERLINE CLEARANCE 50 FT.

STA. 2166+46 CHRISTMAN RD CENTERLINE (SCALED)

STA. 2171+22 HDD ENTRY

STA. 2172+93 PI – 30°03" RT

STA. 2176+72 WELL, 122 FT. LEFT

STA. 2178+00 DRIVEWAY EDGE
STA. 2178+09 DRIVEWAY EDGE

STA. 2178+44 PI – 3°43'32" RT

CLASS LOCATION

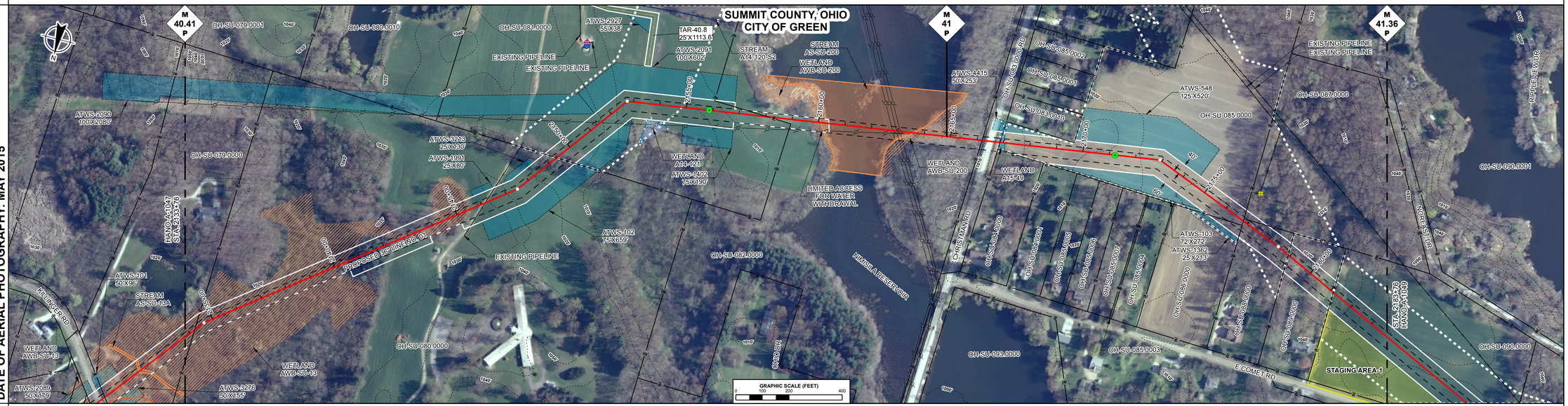
Class 2 | Class 1 | Class 2

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
- PROPOSED NEXUS PIPELINE
- INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
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- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT
- TANK
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, UNKNOWN

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 2141+04 WETLAND AWB-SU-15 EXIT
STA. 2141+97 WETLAND AWB-SU-13 ENTER
STA. 2145+59 WETLAND AWB-SU-13 EXIT
STA. 2153+63 WETLAND A14-121 ENTER
STA. 2153+93 WETLAND A14-121 EXIT
STA. 2159+49 WETLAND AWB-SU-200 ENTER
STA. 2160+02 STREAM NIMISILA RESERVOIR AS-SU-200 ENTER
STA. 2163+81 STREAM NIMISILA RESERVOIR AS-SU-200 EXIT
STA. 2165+63 WETLAND AWB-SU-200 EXIT
STA. 2166+84 WETLAND A15-49 ENTER
STA. 2167+06 WETLAND A15-49 EXIT

E & S TYPICALS

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PROFILE

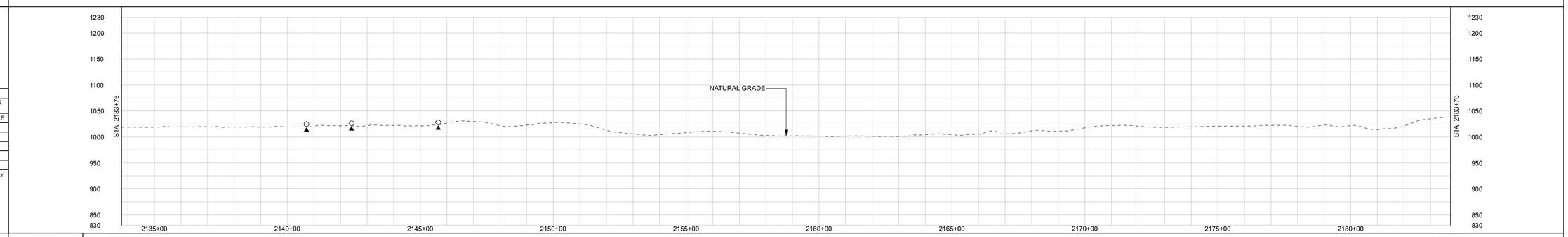
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
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15-30%	200 FT	5-15%	300 FT
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LAND USE CLASSIFICATION

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

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

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

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION
APPENDIX IA-4	SITE SPECIFIC RESIDENTIAL CROSSING PLANS	0B			ISSUED FOR FERC FILING (11/2015)
APPENDIX IA-5	HDD CROSSING PLANS	0A			ISSUED FOR FERC FILING (11/2015)
		0			ISSUED FOR FERC FILING (11/2015)

REFERENCE DRAWINGS | REVISIONS

ITEM	DESCRIPTION	QTY

MATERIALS

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

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	HANO-A-1048	REV. 0B

P:\265_UPSTREAM_PIPELINE\299X_OST\ArbRoot\6 NEXUS PROPOSED MAINLINE PIPELINE 048 of 278.pdf - PLOT TIME: 2015-09-15 08:13:14

RIGHT-OF-WAY

TRACT NUMBERS

2183+76	OH-SU-090.0000 596 FT. 36.1 RODS	2189+72	OH-SU-091.0000 355 FT. 21.5 RODS	2193+24	OH-SU-092.0000-RD 83 FT. 5.0 RODS	2194+07	OH-SU-093.0000 815 FT. 49.4 RODS	2202+22	OH-SU-094.0000 362 FT. 21.9 RODS	2205+84	OH-SU-095.0000 405 FT. 24.5 RODS	2209+89	OH-SU-096.0000 309 FT. 18.7 RODS	2212+98	OH-SU-097.0000 1055 FT. 63.9 RODS	2223+53	OH-SU-098.0000-RD 63 FT. 3.8 RODS	2224+16	OH-SU-100.0000 145 FT. 8.8 RODS	2225+61	OH-SU-101.0000 534 FT. 32.4 RODS	2230+95	OH-SU-102.0000 95 FT. 5.8 RODS	2231+90	OH-SU-103.0000 186 FT. 11.3 RODS	2233+76

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2189+11 PI - 22°29'59" LT
STA. 2191+48 GAS PL
STA. 2193+59 E COMET RD CENTERLINE (SCALED)
STA. 2194+10 TOP BANK
STA. 2195+04 TOE BANK
STA. 2197+09 TOE BANK
STA. 2197+54 TOP BANK
STA. 2198+89 TOP BANK
STA. 2199+38 TOE BANK
STA. 2201+20 TOP BANK
STA. 2201+70 TOE BANK
STA. 2201+98 TOP BANK
STA. 2213+44 GAS PL
STA. 2213+62 GAS PL
STA. 2215+50 PI - 30°03" LT
STA. 2216+19 TOP BANK
STA. 2216+23 DITCH DEPTH 1.0 FT. CENTERLINE
STA. 2216+30 TOP BANK
STA. 2220+58 DRIVEWAY EDGE
STA. 2220+62 ROAD CENTERLINE (SCALED)
STA. 2220+67 DRIVEWAY EDGE
STA. 2222+39 PI - 45°03" RT
STA. 2223+65 SEWER
STA. 2223+87 MUNICIPALITY LINE
STA. 2224+00 S MAIN ST. CENTERLINE (SCALED)
STA. 2224+10 SEWER
STA. 2225+61 PI - 24°29'59" RT
STA. 2227+73 ROAD CENTERLINE (SCALED)
STA. 2228+69 PI - 2°42'35" LT
STA. 2231+06 GAS PL
STA. 2231+20 FENCE
STA. 2231+64 FENCE
STA. 2232+03 PI - 29°59'59" LT

CLASS LOCATION

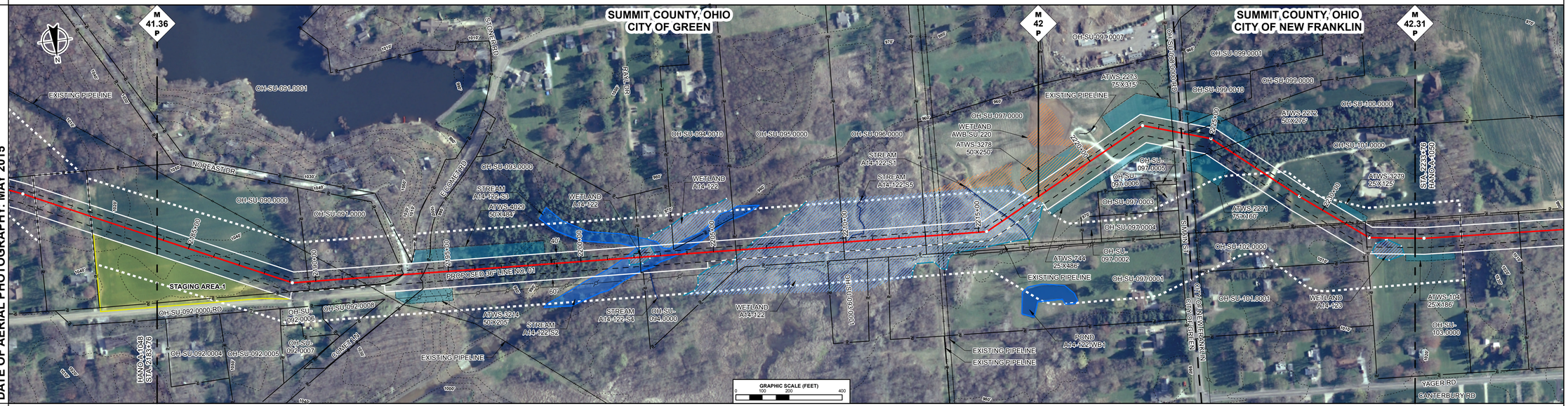
Class 2 | Class 3

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
- 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
- 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. 2200+47 STREAM NIMISILA CREEK A14-122-S2 ENTER
STA. 2201+80 WETLAND A14-122 ENTER
STA. 2203+68 WETLAND A14-122 EXIT
STA. 2204+50 STREAM NIMISILA CREEK A14-122-S2 EXIT
STA. 2206+76 WETLAND A14-122 ENTER
STA. 2210+03 CENTERLINE OF STREAM A14-122-S5 TRIBUTARY TO NIMISILA CREEK
STA. 2216+26 CENTERLINE OF STREAM A14-122-S1 TRIBUTARY TO NIMISILA CREEK
STA. 2217+28 WETLAND AWB-SU-220 ENTER
STA. 2217+65 WETLAND A14-122 EXIT
STA. 2220+38 WETLAND AWB-SU-220 EXIT
STA. 2232+14 WETLAND A14-123 ENTER
STA. 2233+36 WETLAND A14-123 EXIT

E & S TYPICALS

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

PROFILE

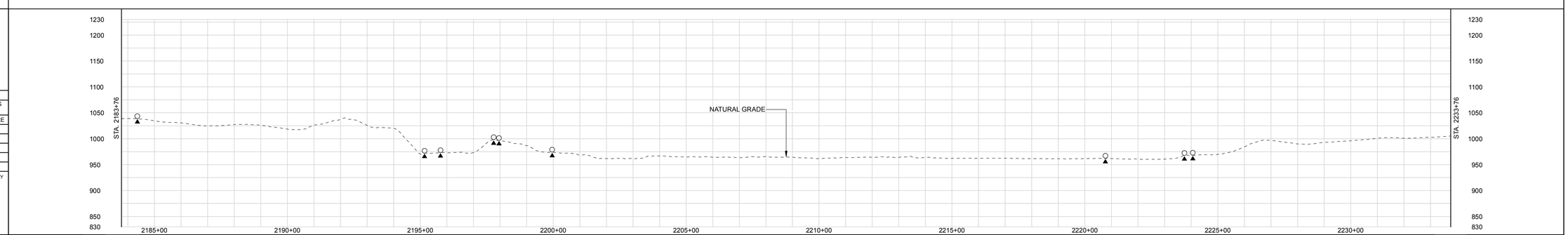
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

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

GENERAL NOTES:

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

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

APPENDIX IA-4	SITE SPECIFIC RESIDENTIAL CROSSING PLANS
DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV	DSN	CK	DESCRIPTION
0A			ISSUED FOR FERC FILING (11/2015)
0			ISSUED FOR FERC FILING (11/2015)
REVISIONS			

ITEM	DESCRIPTION	QTY
MATERIALS		

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 GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	HANO-A-1049	REV. 0A

P:\265_UPSTREAM_PIPELINE\299X_GIS\ToBeRouted\ NEXUS PROPOSED MAINLINE PIPELINE 049 of 278.pdf - PLOT TIME: 2015-09-15 08:15:28

RIGHT-OF-WAY

TRACT NUMBERS

2233+76	OH-SU-103.0000	2235+51	OH-SU-104.0000	2237+70	OH-SU-105.0000	2242+91	OH-SU-106.0000	2246+75	OH-SU-107.0000	2249+28	OH-SU-108.0000	2252+02	OH-SU-109.0000-RD	2252+62	OH-SU-110.0000	2255+81	OH-SU-111.0000	2258+74	OH-SU-112.0000	2259+98	OH-SU-113.0000	2260+70	OH-SU-114.0000	2262+65	OH-SU-115.0000	2264+64	OH-SU-116.0000	2266+55	OH-SU-117.0000	2268+55	OH-SU-118.0000	2269+57	OH-SU-119.0000	2270+55	OH-SU-120.0000	2271+59	OH-SU-121.0000	2272+58	OH-SU-122.0000	2274+74	OH-SU-123.0000	2276+17	OH-SU-124.0000	2278+42	OH-SU-125.0000	2279+39	OH-SU-126.0000	2283+71	OH-SU-127.0000	2283+76
	175 FT. / 10.6 RODS		219 FT. / 13.3 RODS		521 FT. / 31.6 RODS		384 FT. / 23.3 RODS		253 FT. / 15.3 RODS		274 FT. / 16.6 RODS		60 FT. / 3.6 RODS		319 FT. / 19.3 RODS		293 FT. / 17.8 RODS		114 FT. / 6.9 RODS		82 FT. / 5.0 RODS		195 FT. / 11.8 RODS		199 FT. / 12.1 RODS		191 FT. / 11.6 RODS		200 FT. / 12.1 RODS		102 FT. / 6.2 RODS		98 FT. / 5.9 RODS		104 FT. / 6.3 RODS		99 FT. / 6.0 RODS		216 FT. / 13.1 RODS		143 FT. / 8.7 RODS		225 FT. / 13.6 RODS		97 FT. / 5.9 RODS		432 FT. / 26.2 RODS		5 FT. / 0.3 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2234+10 PI - 4°16'42" LT

STA. 2246+63 PI - 29°59'59" LT
STA. 2247+23 PI - 32°11'45" RT

STA. 2251+31 PI - 6°37'45" LT
STA. 2252+12 POWERLINE, CL LEASE LT
STA. 2252+20 ROAD EDGE
STA. 2252+29 PAVED_S MYERS RD CENTERLINE
STA. 2252+38 ROAD EDGE

STA. 2258+69 PI - 4°54'3" RT

STA. 2259+88 PI - 29°59'59" RT

STA. 2260+48 GAS PL

STA. 2261+13 PI - 29°59'59" LT

CLASS LOCATION

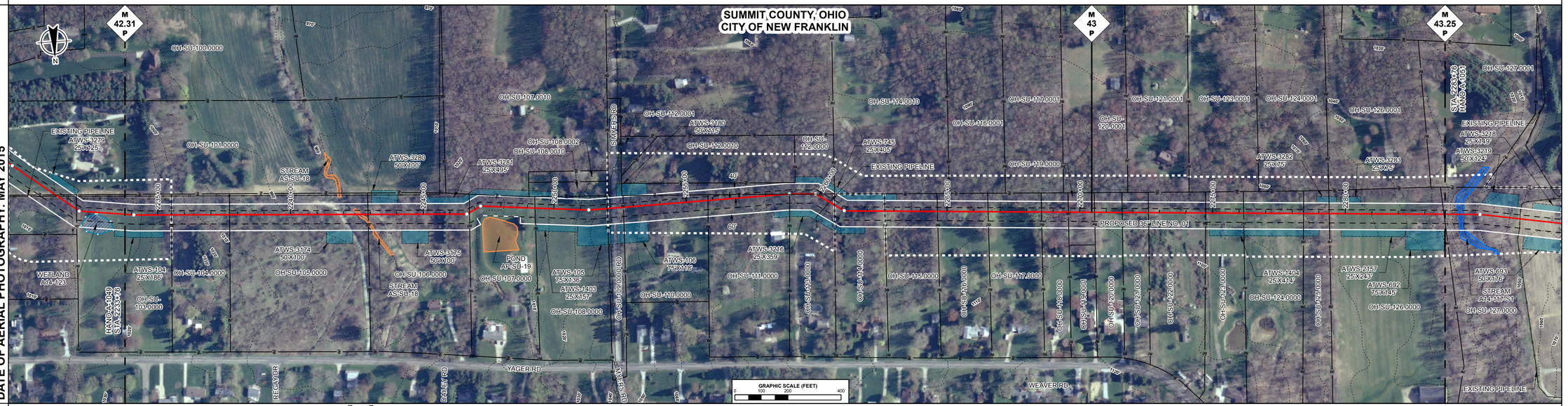
Class 3 | Class 2

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
- 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
- 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 (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W)
- RAILROAD TRACK
- TELEPHONE LINE (T)
- 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. 2242+38 STREAM TRIBUTARY TO NIMISILA CREEK AS-SU-18 EXIT

STA. 2243+17 STREAM TRIBUTARY TO NIMISILA CREEK AS-SU-18 EXIT

E & S TYPICALS

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

PROFILE

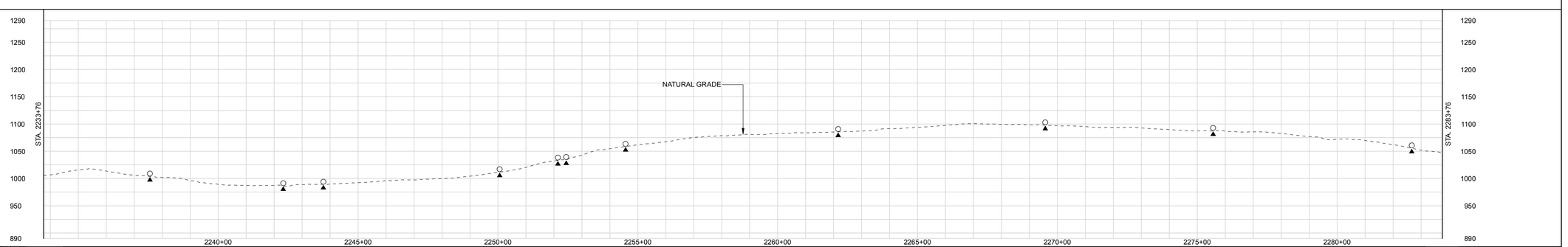
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

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

2283+76		OH-SU-127.0000	2297+69	OH-SU-128.0000	2303+71	OH-SU-129.0000-RD	2304+32	OH-SU-130.0000	2304+63	OH-SU-131.0000	2307+77	OH-SU-133.0000	2314+16	OH-SU-134.0000	2317+72	OH-SU-135.0000	2333+76
		1383 FT. 83.8 RODS		613 FT. 37.2 RODS		60 FT. 3.6 RODS		31 FT. 1.9 RODS		314 FT. 19.0 RODS		638 FT. 38.7 RODS		357 FT. 21.6 RODS		1604 FT. 97.2 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2285+07 PI - 5°51'28" RT
STA. 2286+58 GAS PL
STA. 2293+23 PI - 44°59'59" RT
STA. 2295+26 PI - 45°00" LT
STA. 2296+10 PI - 7°37'5" LT
STA. 2297+32 GAS PL
STA. 2297+53 GAS PL
STA. 2303+16 PI - 30°00" LT
STA. 2303+70 TOP BANK
STA. 2303+72 PROPOSED 36" PIPELINE CLEARANCE 20 FT.
STA. 2303+74 DITCH, DEPTH 0 FT. CENTERLINE
STA. 2303+77 TOP BANK
STA. 2303+82 ROAD EDGE
STA. 2303+89 PAVED MANCHESTER RD CENTERLINE
STA. 2304+13 ROAD EDGE
STA. 2304+19 EDGE OF WETLAND
STA. 2306+02 PI - 7°37'5" LT
STA. 2307+39 PI - 29°59'59" RT
STA. 2310+07 PI - 7°6'2" RT
STA. 2321+38 PI - 22°29'59" LT
STA. 2325+17 PI - 22°29'59" RT
STA. 2333+00 NATURAL GAS PL

CLASS LOCATION

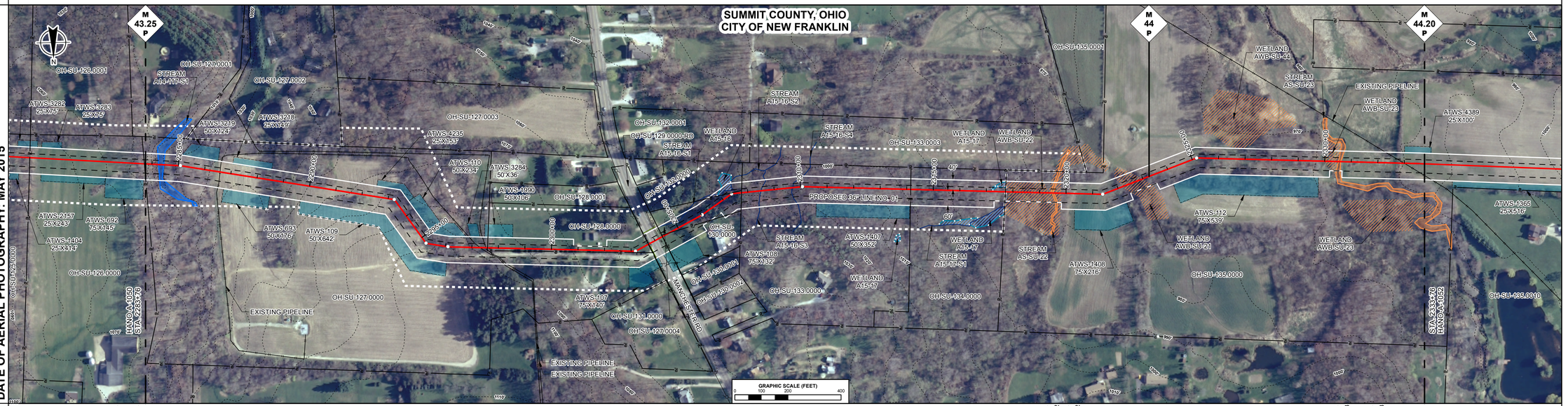
Class 2 | Class 1 | Class 2

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
- 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
- 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. 2284+20 STREAM TRIBUTARY TO NIMISILA CREEK A14-117-S1 ENTER
STA. 2284+45 STREAM TRIBUTARY TO NIMISILA CREEK A14-117-S1 EXIT
STA. 2305+92 WETLAND A15-16 EXIT
STA. 2307+48 WETLAND A15-16 EXIT
STA. 2308+50 CENTERLINE OF STREAM A15-16-S3 TRIBUTARY TO NIMISILA CREEK
STA. 2309+69 CENTERLINE OF STREAM A15-16-S4 TRIBUTARY TO NIMISILA CREEK
STA. 2317+19 WETLAND A15-17 ENTER
STA. 2317+72 WETLAND AWB-SU-22 ENTER
STA. 2317+73 WETLAND A15-17 EXIT
STA. 2319+45 STREAM TRIBUTARY TO NIMISILA CREEK AS-SU-22 ENTER
STA. 2319+68 STREAM TRIBUTARY TO NIMISILA CREEK AS-SU-22 EXIT
STA. 2319+82 WETLAND AWB-SU-22 EXIT
STA. 2322+04 WETLAND AWB-SU-21 ENTER
STA. 2323+26 WETLAND AWB-SU-21 EXIT
STA. 2328+64 WETLAND AWB-SU-44 ENTER
STA. 2328+92 WETLAND AWB-SU-44 EXIT
STA. 2329+89 WETLAND AWB-SU-23 ENTER
STA. 2330+45 STREAM TRIBUTARY TO NIMISILA CREEK AS-SU-23 ENTER
STA. 2330+58 WETLAND AWB-SU-23 EXIT
STA. 2330+72 STREAM TRIBUTARY TO NIMISILA CREEK AS-SU-23 EXIT

E & S TYPICALS

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

PROFILE

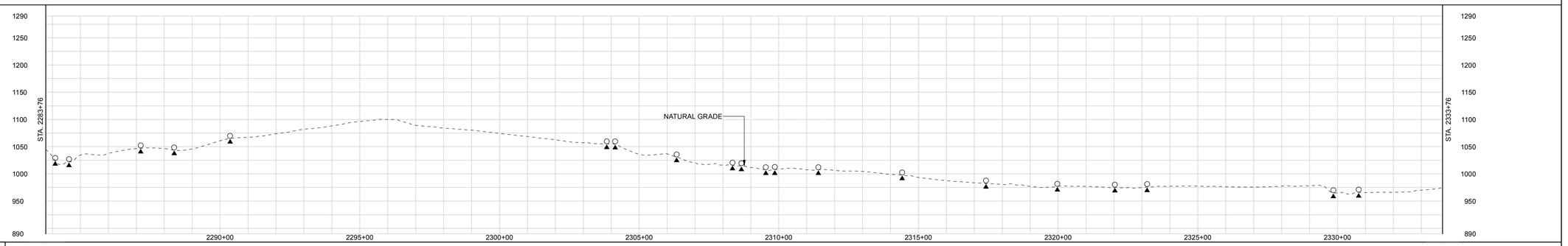
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

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

2333+76	OH-SU-135.0000	2341+23	OH-SU-136.0000-RD	2341+84	OH-SU-137.0000	2345+82	OH-SU-138.0000	2358+12	OH-SU-139.0000	OH-SU-140.0000	OH-SU-141.0000	OH-SU-142.0000	OH-SU-143.0000	2371+68	OH-SU-144.0000-RD	2372+18	OH-SU-145.0000	2374+91	OH-SU-146.0000	2377+90	OH-SU-147.0000	2378+51	OH-SU-148.0000	2383+76
	747 FT. 45.3 RODS		61 FT. 3.7 RODS		398 FT. 24.1 RODS		1230 FT. 74.5 RODS		170 FT. 10.3 RODS	169 FT. 10.2 RODS	171 FT. 10.4 RODS	208 FT. 12.6 RODS	638 FT. 38.7 RODS		49 FT. 3.0 RODS		273 FT. 16.5 RODS		299 FT. 18.1 RODS		61 FT. 3.7 RODS		525 FT. 31.8 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2341+55 ROAD EDGE
STA. 2341+46 PAVED HAMPSHER RD CENTERLINE
STA. 2341+78 ROAD EDGE
STA. 2344+78 DITCH, DEPTH 0 FT. CENTERLINE
STA. 2341+84 POWERLINE, CLEARANCE 20 FT.

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

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

STA. 2357+62 PI – 89°38'58" RT
STA. 2357+98 GAS PL

STA. 2364+16 PI – 60°03" LT
STA. 2365+13 GAS PL

STA. 2368+56 GAS PL
STA. 2368+89 TANK BATTERY, 100 FT. LEFT

STA. 2371+42 PI – 4°33'47" RT
STA. 2371+73 POWERLINE, CLEARANCE 20 FT.
STA. 2371+85 ROAD EDGE
STA. 2371+96 PAVED, GROVE RD. CENTERLINE
STA. 2372+08 ROAD EDGE

STA. 2378+72 PI – 3°13'48" RT

CLASS LOCATION

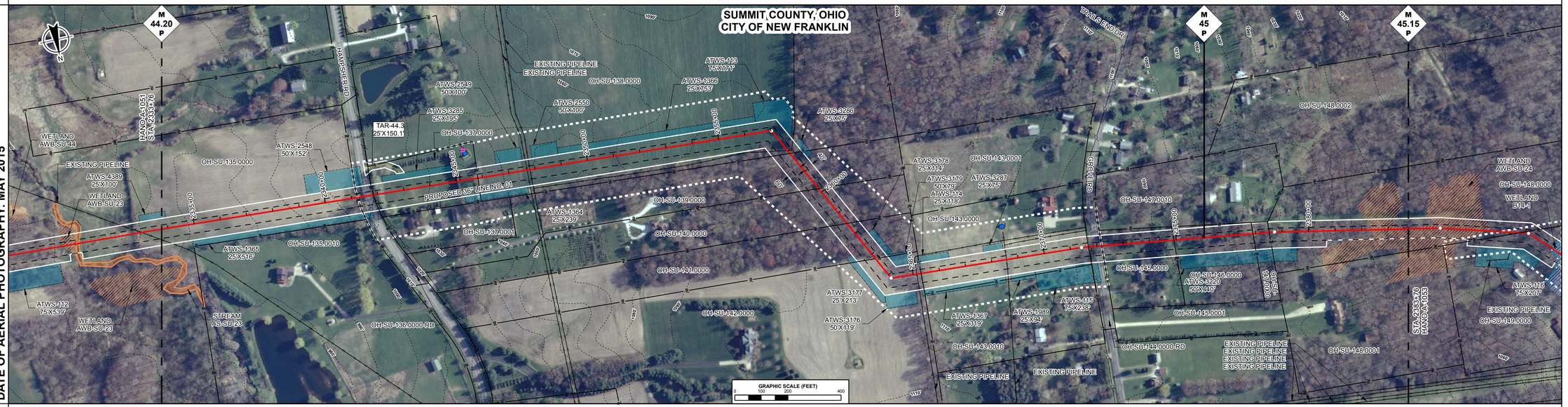
Class 2

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
- 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
- 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 (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W)
- RAILROAD TRACK
- TELEPHONE LINE (T)
- 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. 2381+78 WETLAND AWB-SU-24 ENTER

E & S TYPICALS

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

PROFILE

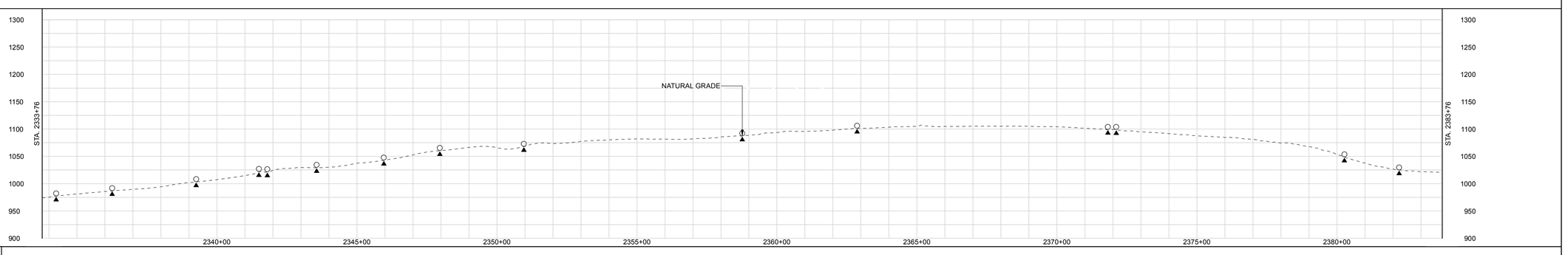
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

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 · 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%				5-15%	< 5%		5-15%			< 5%											5-15%	< 5%	

GENERAL NOTES:

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

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

REV	DSN	CK	DESCRIPTION
0B			ISSUED FOR FERC FILING (11/2015)
0A			ISSUED FOR FERC FILING (11/2015)
0			ISSUED FOR FERC FILING (11/2015)

ITEM	DESCRIPTION	QTY

APPENDIX IA-4 SITE SPECIFIC RESIDENTIAL CROSSING PLANS

DWG. NO. | DESCRIPTION — REFERENCE DRAWINGS

REVISIONS — MATERIALS

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 GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	HANO-A-1052	REV. 0B

P:\DS_UPSTREAM_PIPELINE\2KX_GIS\TurboRoute\NEXUS PROPOSED MAINLINE PIPELINE 552 of 276.pdf - PLOT TIME: 2015-09-15 13:19:10

RIGHT-OF-WAY

TRACT NUMBERS

2383+76	OH-SU-148.0000	2387+04	OH-SU-149.0000	2393+91	OH-SU-150.0000	2400+02	OH-SU-151.0000-RD	2400+59	OH-SU-152.0000	2403+74	OH-SU-153.0000	2409+97	OH-SU-154.0000	2416+01	OH-SU-155.0000	2433+76
	418 FT. 25.3 RODS		597 FT. 36.2 RODS		611 FT. 37.0 RODS		57 FT. 3.5 RODS		315 FT. 19.1 RODS		623 FT. 37.8 RODS		604 FT. 36.6 RODS		1775 FT. 107.6 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2384+95 PI – 4°39'6" RT
STA. 2387+79 FENCE
STA. 2388+29 PI – 30°03'0" RT
STA. 2393+97 FENCE
STA. 2394+12 FENCE
STA. 2395+60 PI – 44°59'59" RT
STA. 2395+72 GAS PL
STA. 2395+86 UNK PL
STA. 2396+15 GAS PL
STA. 2396+32 FENCE
STA. 2397+05 GAS PL
STA. 2397+20 GAS PL
STA. 2399+91 FENCE
STA. 2400+05 DITCH, DEPTH 10 FT, CENTERLINE
STA. 2400+07 POWERLINE, CLEARANCE 15 FT.
STA. 2400+21 ROAD EDGE
STA. 2400+38 PAVED, W NIMISILA RD, CENTERLINE
STA. 2400+51 ROAD EDGE
STA. 2400+64 SHED
STA. 2401+62 PI – 30°03'0" RT
STA. 2405+89 PI – 30°03'0" LT
STA. 2414+61 PI – 29°59'59" LT
STA. 2417+18 PI – 29°59'59" RT
STA. 2425+67 PI – 1°19'3" RT

CLASS LOCATION

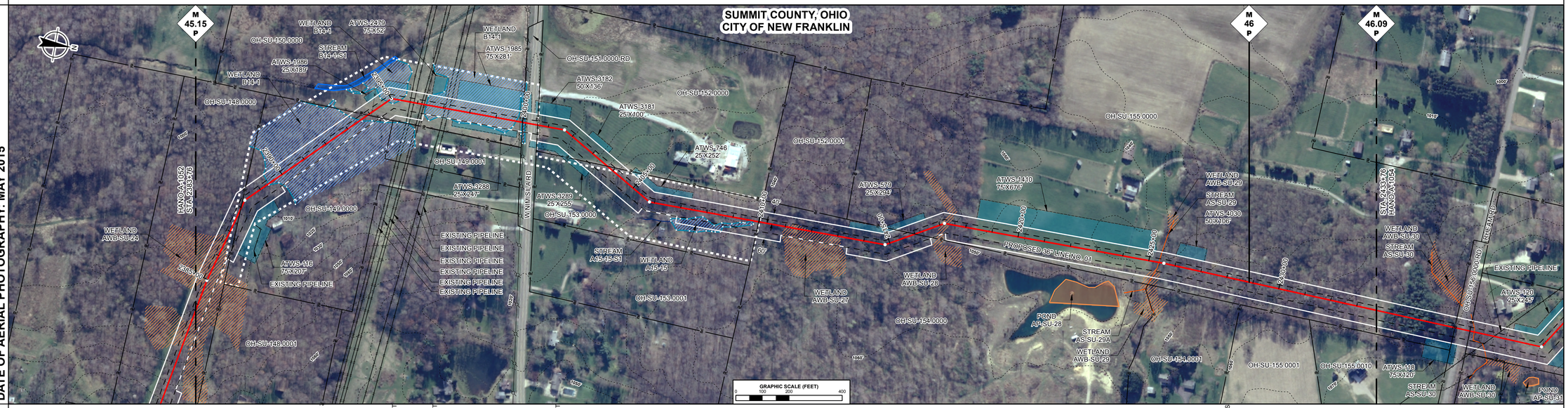
Class 2 | Class 1 | Class 2

PIPE MATERIAL

ALIGNMENT LEGEND

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- PROPOSED NEXUS PIPELINE
- INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
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- FACILITIES PERMANENT WORKSPACE
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- 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. 2386+85 WETLAND AWB-SU-24 EXIT
STA. 2389+37 WETLAND B14-1 ENTER
STA. 2394+01 WETLAND B14-1 EXIT
STA. 2394+67 WETLAND B14-1 ENTER
STA. 2395+53 WETLAND B14-1 EXIT
STA. 2396+31 WETLAND B14-1 ENTER
STA. 2400+16 WETLAND B14-1 EXIT
STA. 2408+91 WETLAND A15-15 ENTER
STA. 2409+79 WETLAND A15-15 EXIT
STA. 2410+92 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+39 CENTERLINE OF STREAM AS-SU-29 TRIBUTARY TO TUSCARAWAS RIVER
STA. 2425+52 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

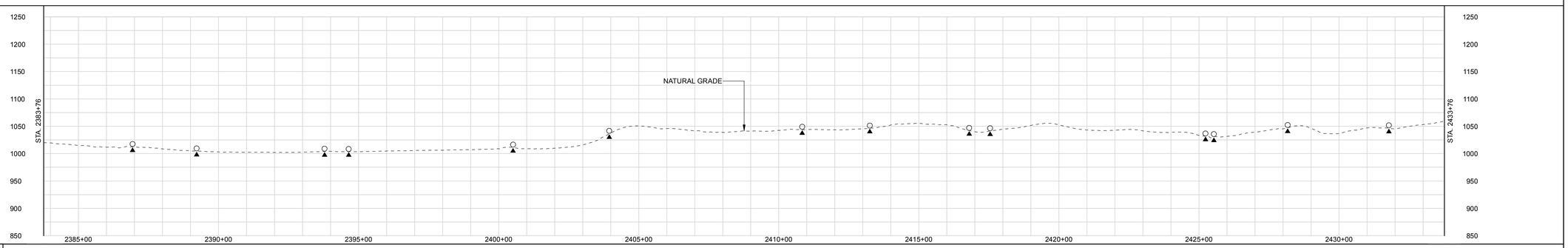
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SLOPE BREAKERS ○
TRENCH PLUG ▲

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

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

IG.#	DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM	DESCRIPTION	QTY
			0A			ISSUED FOR FERC FILING (11/2015)			
	APPENDIX IA-4	SITE SPECIFIC RESIDENTIAL CROSSING PLANS	0			ISSUED FOR FERC FILING (11/2015)			
	REFERENCE DRAWINGS		REVISIONS				MATERIALS		

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

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	HANO-A-1053	REV. 0A

P:\29_UPSTREAM_PIPELINE\295K_GIS\Turbo\Build\NEXUS PROPOSED MAINLINE PIPELINE 063 of 278.pdf - PLOT TIME: 2015-09-14 10:15:22

RIGHT-OF-WAY

TRACT NUMBERS

2433+76	OH-SU-155.0000	2436+77	OH-SU-156.0000-RD	2437+36	OH-SU-157.0000	2442+70	OH-SU-158.0000	2442+95	OH-SU-159.0000	2445+21	OH-SU-160.0000	2452+10	OH-SU-162.0000	2456+64	OH-SU-163.0000	2457+23	OH-SU-164.0000	2471+50	OH-SU-165.0000-RD	2472+14	OH-SU-166.0000	2482+00	OH-SU-167.0000	2483+51	OH-SU-168.0000	2483+76
	301 FT. 18.2 RODS		59 FT. 3.6 RODS		534 FT. 32.4 RODS		25 FT. 1.5 RODS		326 FT. 19.8 RODS		589 FT. 35.7 RODS		454 FT. 27.5 RODS		59 FT. 3.6 RODS		1426 FT. 86.4 RODS		64 FT. 3.9 RODS		986 FT. 59.8 RODS		151 FT. 9.2 RODS		25 FT. 1.5 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2436+95 ROAD EDGE
STA. 2437+52 CENTERLINE OF STREAM RD CENTERLINE
STA. 2437+15 ROAD EDGE
STA. 2438+28 GAS PL
STA. 2440+12 PI – 89°49'59" LT
STA. 2443+28 PI – 45°0'0" RT
STA. 2446+52 DRIVEWAY EDGE
STA. 2446+57 DRIVEWAY CENTERLINE
STA. 2446+62 DRIVEWAY EDGE
STA. 2449+03 PI – 44°59'59" LT
STA. 2451+12 PI – 29°59'59" RT
STA. 2457+22 FENCE
STA. 2457+27 PI – 7°30'0" LT
STA. 2462+20 FENCE
STA. 2466+76 PI – 7°47'16" RT
STA. 2466+27 FENCE
STA. 2469+77 FENCE
STA. 2469+79 TOP BANK
STA. 2469+83 TOE BANK
STA. 2469+84 TOE BANK
STA. 2469+88 TOP BANK
STA. 2469+94 ROAD EDGE
STA. 2470+04 GRAVEL UNK
STA. 2470+08 FENCE
STA. 2470+13 ROAD EDGE
STA. 2470+17 POWERLINE, CLEARANCE 61 FT.
STA. 2470+25 FENCE
STA. 2470+49 FENCE
STA. 2470+54 GAS PL
STA. 2470+54 GAS PL
STA. 2471+59 POWERLINE, CLEARANCE 118 FT.
STA. 2471+60 ROAD EDGE
STA. 2471+81 PAVED, CENTER RD CENTERLINE
STA. 2472+07 ROAD EDGE
STA. 2472+20 POWERLINE, CLEARANCE 75 FT.
STA. 2473+47 PI – 7°47'16" LT
STA. 2473+88 POWERLINE, CLEARANCE 61 FT.
STA. 2473+92 DRIVEWAY EDGE
STA. 2473+99 DRIVEWAY CENTERLINE
STA. 2474+06 DRIVEWAY EDGE
STA. 2475+26 DRIVEWAY EDGE
STA. 2476+15 POWERLINE, CLEARANCE 55 FT.
STA. 2479+17 PI – 1°56'6" RT

CLASS LOCATION

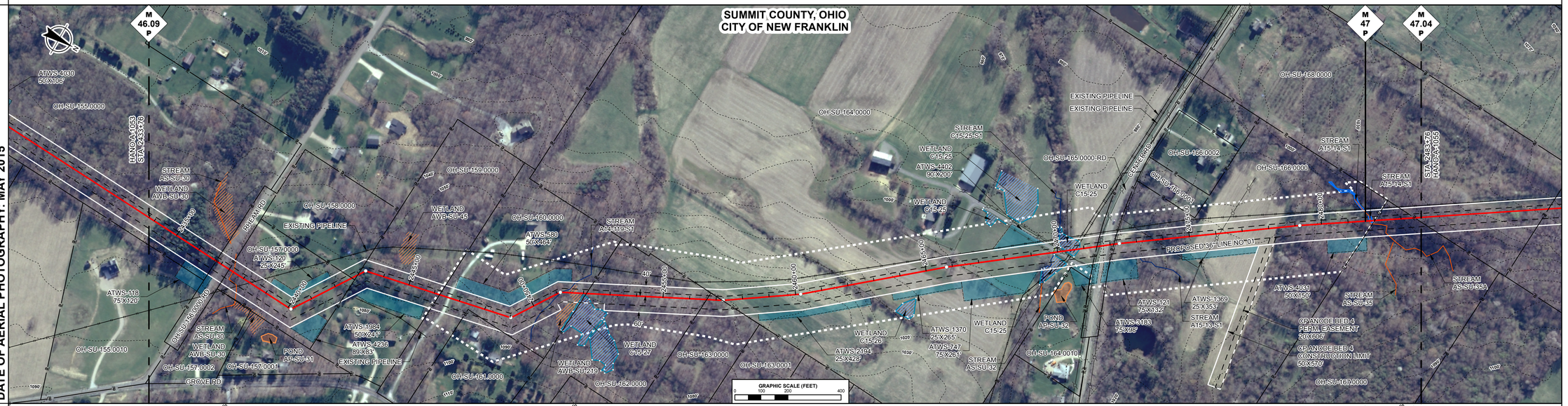
Class 2

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
- PROPOSED NEXUS PIPELINE
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- CONSTRUCTION LIMIT
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- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PROPERTY LINE
- CONTOUR (120')
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- FENCE
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- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE LINE
- TEE TAP
- UTILITY LINES
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- 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. 2437+52 CENTERLINE OF STREAM AS-SU-30 TRIBUTARY TO TUSCARAWAS RIVER
STA. 2451+15 CENTERLINE OF STREAM A14-119-S1 TRIBUTARY TO TUSCARAWAS RIVER
STA. 2451+43 WETLAND AWB-SU-219 ENTER
STA. 2451+99 WETLAND AWB-SU-219 EXIT
STA. 2452+32 WETLAND C15-27 ENTER
STA. 2452+32 WETLAND C15-27 EXIT
STA. 2469+31 WETLAND C15-25 ENTER
STA. 2470+09 WETLAND C15-25 EXIT
STA. 2470+88 WETLAND C15-25 ENTER
STA. 2470+88 WETLAND C15-25 EXIT
STA. 2481+78 STREAM TRIBUTARY TO TUSCARAWAS RIVER A15-14-S1 ENTER
STA. 2481+85 CENTERLINE OF STREAM AS-SU-35A TRIBUTARY TO TUSCARAWAS RIVER
STA. 2481+92 STREAM TRIBUTARY TO TUSCARAWAS RIVER A15-14-S1 EXIT

E & S TYPICALS

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PROFILE

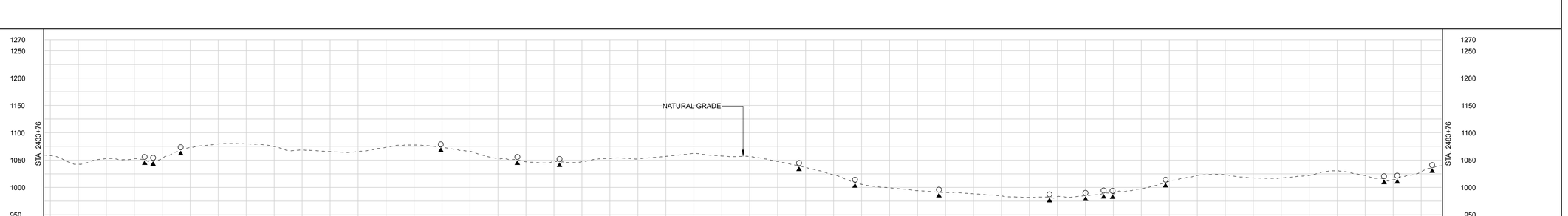
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SLOPE BREAKERS ○
TRENCH PLUG ▲

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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

2483+76	OH-SU-168.0000 480 FT. 29.1 RODS	2488+56	OH-SU-169.0000 553 FT. 33.5 RODS	2494+09	OH-SU-170.0000 888 FT. 53.8 RODS	2502+97	OH-SU-171.0000 325 FT. 19.7 RODS	2506+22	OH-SU-172.0000 1875 FT. 113.6 RODS	2524+97	OH-SU-173.0000 50 FT. 3.0 RODS	2525+47	OH-SU-174.0000 526 FT. 31.9 RODS	2530+73	OH-SU-175.0000-RD 68 FT. 4.1 RODS	2531+41	OH-SU-176.0000 191 FT. 11.6 RODS	2533+32	OH-SU-177.0000 44 FT. 2.7 RODS	2533+76

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2493+49 PI – 4°27'54" RT

STA. 2497+13 PI – 30°03" RT

STA. 2502+40 PI – 6°16'32" RT

STA. 2506+27 FENCE

STA. 2517+37 PI – 23°38'0" RT

STA. 2520+33 POWERLINE
CLEARANCE 79 FT.
STA. 2520+38 POWERLINE
CLEARANCE 79 FT.
STA. 2520+84 POWERLINE
CLEARANCE 79 FT.
STA. 2521+47 PI – 4°00'0" RT
STA. 2521+53 HDD ENTRY
STA. 2522+97 TOWER, 92 FT. LEFT

STA. 2530+72 TOP BANK
STA. 2531+00 DITCH, DEPTH 0
FT. CENTERLINE
STA. 2530+85 TOP BANK
STA. 2530+97 ROAD EDGE
STA. 2531+15 ROAD EDGE
BUREN RD CENTERLINE
STA. 2531+15 TOP BANK
STA. 2531+21 DITCH, DEPTH 0
FT. CENTERLINE
STA. 2531+40 TOP BANK
STA. 2531+40 POWERLINE
CLEARANCE 18 FT.
STA. 2533+32 FENCE
STA. 2533+45 RR
STA. 2533+65 FENCE

CLASS LOCATION

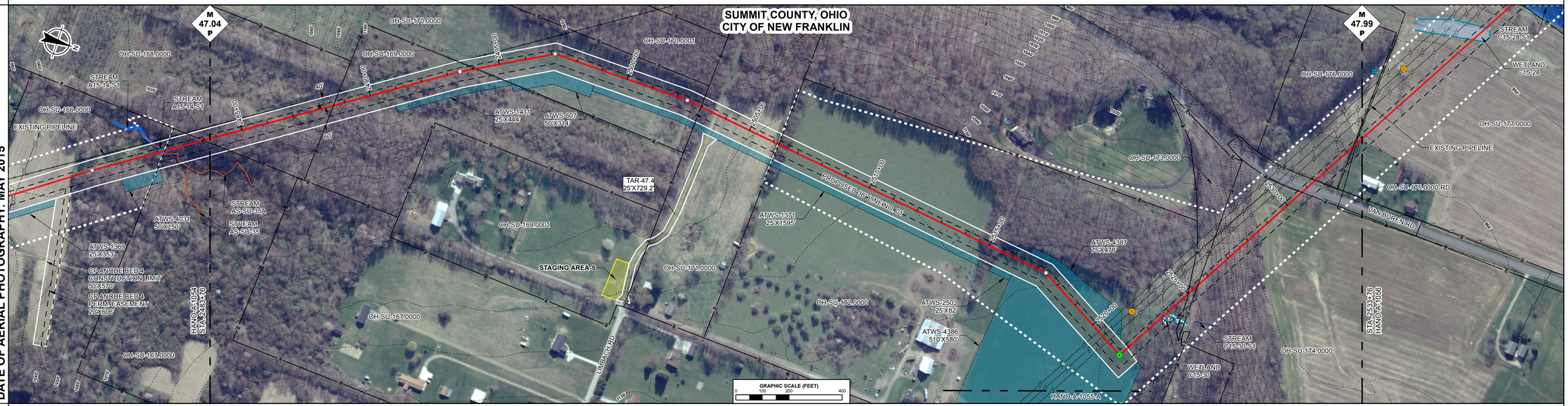
Class 2 | Class 1

PIPE MATERIAL

ALIGNMENT LEGEND

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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. 2523+61 WETLAND C15-30 ENTER
STA. 2524+06 WETLAND C15-30 EXIT

E & S TYPICALS

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PROFILE

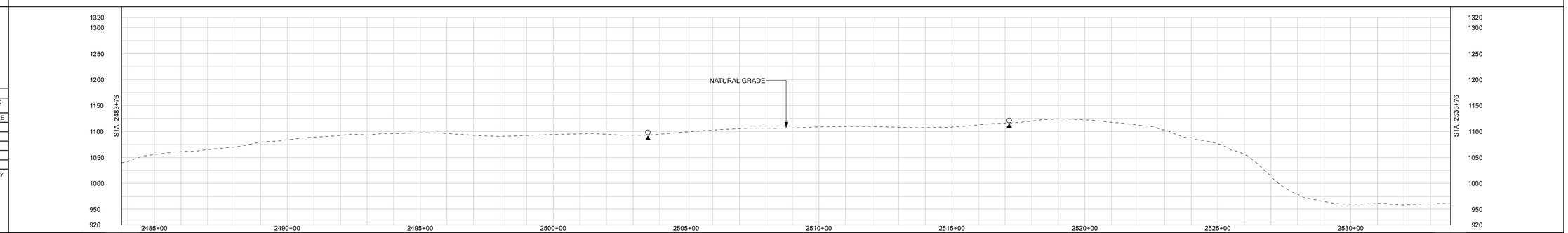
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TRENCH PLUG ▲

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LAND USE CLASSIFICATION

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

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

P:\265_UPSTREAM_PIPELINE\299X_GIS\ToBeRouted\ NEXUS PROPOSED MAINLINE PIPELINE 055 of 278.pdf - PLOT TIME: 2015-09-14 12:32:38

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION
APPENDIX IA-5	HDD CROSSING PLANS	0B			ISSUED FOR FERC FILING (11/2015)
		0A			ISSUED FOR FERC FILING (11/2015)
		0			ISSUED FOR FERC FILING (11/2015)

REFERENCE DRAWINGS | 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: NAME	BID SIGNATURE	BID DATE	CONSTRUCTION SIGNATURE	CONSTRUCTION DATE

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

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	HANO-A-1055	REV. 0B

RIGHT-OF-WAY

TRACT NUMBERS

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

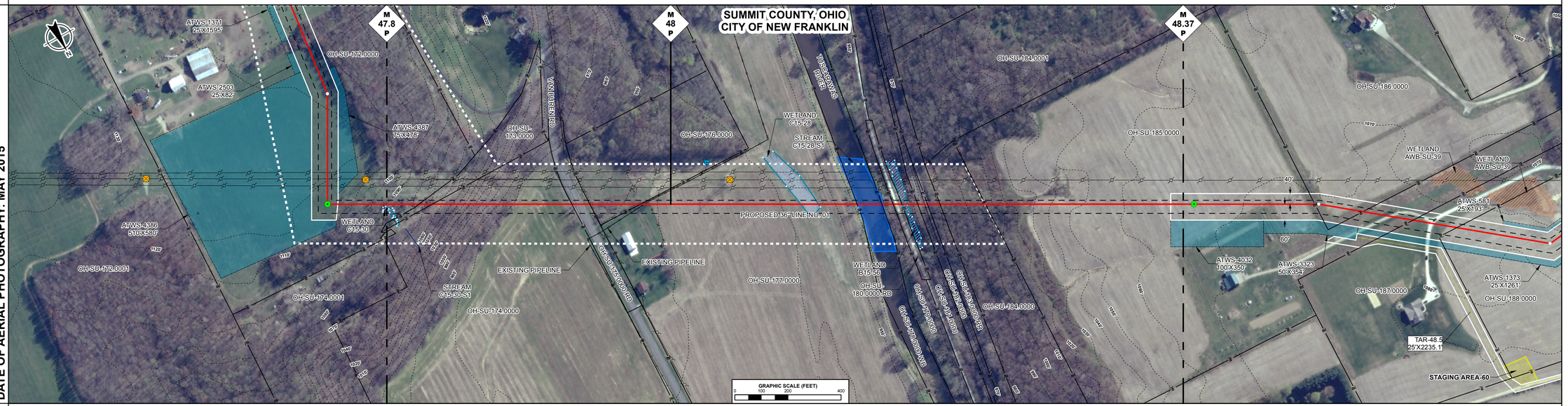
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
- 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
- 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

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
% SLOPE

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DWG. NO.	DESCRIPTION
HANO-A-1055	ALIGNMENT SHEET
APPENDIX IA-5	HDD CROSSING PLANS

REFERENCE DRAWINGS

REV	DSN	CK	DESCRIPTION
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:

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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 GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	HANO-A-1055-A	REV. 0B

IG.#