RIGHT-OF-WAY

TRACT NUMBERS

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

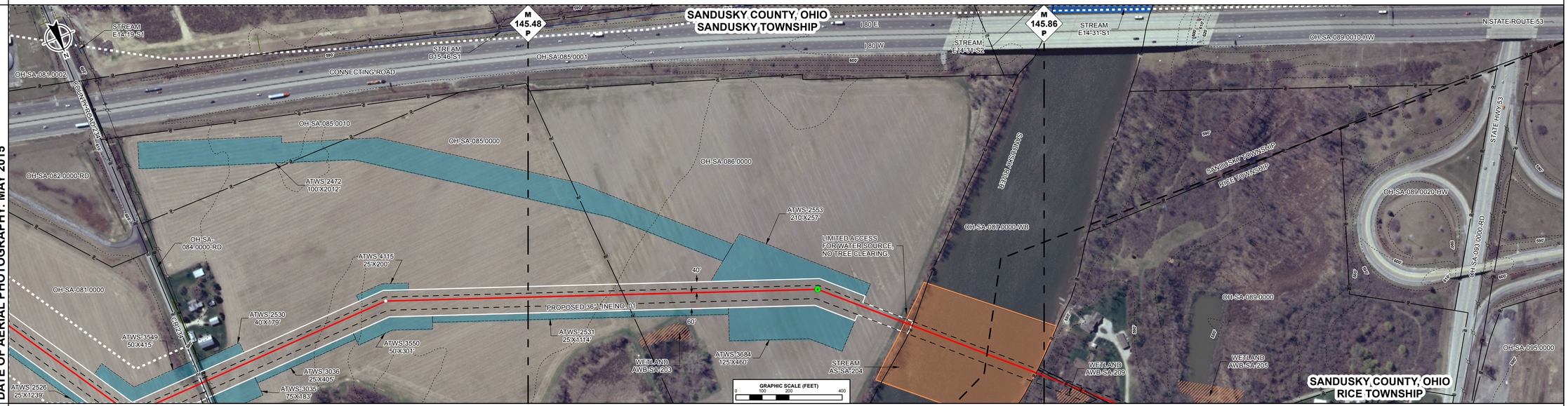
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- 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

APPENDIX IA-4	SITE SPECIFIC RESIDENTIAL CROSSING PLANS
CLYD-A-1161	ALIGNMENT SHEET
APPENDIX IA-5	HDD CROSSING PLANS

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

GENERAL NOTES:

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

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

DRAWN BY:	BID		CONSTRUCTION	
NAME	SIGNATURE	DATE	SIGNATURE	DATE

ENGINEERING APPROVALS

CLYD - WATE
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SANDUSKY COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	CLYD-A-1161-A	REV. 0A

IG.#

P:\205_UPSTREAM_PIPELINE\206K_OST\ArbRoute\ NEXUS PROPOSED MAINLINE PIPELINE 161-A-sf 278.apt - PLOT TIME: 2015-09-15 13:06:32

RIGHT-OF-WAY

TRACT NUMBERS

7724+21	OH-SA-096.0000	7726+54	OH-SA-097.0000	7728+92	OH-SA-098.0000	7734+52	OH-SA-099.0000-RD	7734+69	OH-SA-100.0000	7747+73	OH-SA-101.0000	7762+47	OH-SA-102.0000	7770+90
	233 FT.		238 FT.		560 FT.		17 FT.		1304 FT.		1474 FT.		843 FT.	
	14.1 RODS		14.4 RODS		33.9 RODS		1.0 RODS		79.0 RODS		89.3 RODS		51.1 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 7724+26 TOP BANK
STA. 7724+41 TOE BANK
STA. 7724+54 TOE BANK
STA. 7724+97 TOE BANK

STA. 7730+64 PI - 44°58'58" LT

STA. 7734+23 POWERLINE CLEARANCE 18 FT.
STA. 7734+32 TOE BANK
STA. 7734+39 MUNICIPALITY LINE

STA. 7734+42 TOP BANK
STA. 7734+60 CR-170
STA. 7734+71 DITCH, DEPTH 0 FT. CENTERLINE
STA. 7734+76 POWERLINE CLEARANCE 19 FT.

STA. 7742+69 PI - 22°30'0" LT

STA. 7745+93 TOP BANK
STA. 7746+03 DITCH DEPTH 0.6 FT. CENTERLINE
STA. 7746+14 TOP BANK

STA. 7762+53 POWERLINE CLEARANCE 34 FT.

STA. 7768+65 PI - 44°58'58" LT

CLASS LOCATION

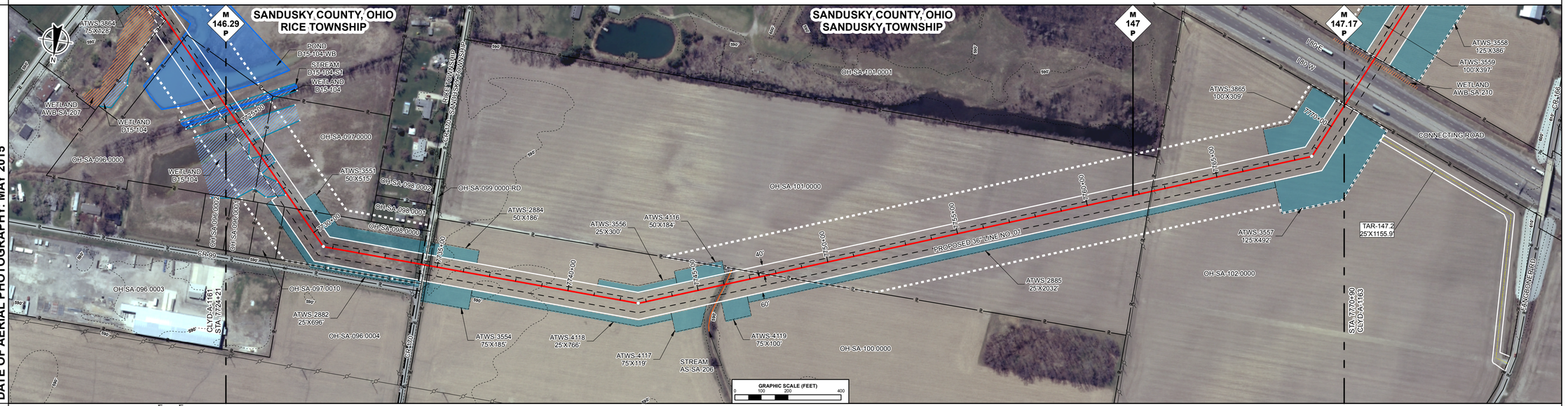
Class 3 | Class 2 | Class 1

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. 7724+23 STREAM TRIB TO SANDUSKY RIVER D15-104-S1 ENTER
STA. 7724+52 STREAM TRIB TO SANDUSKY RIVER D15-104-S1 EXIT
STA. 7724+66 WETLAND D15-104 ENTER
STA. 7724+88 WETLAND D15-104 EXIT
STA. 7726+21 WETLAND D15-104 ENTER
STA. 7726+36 WETLAND D15-104 EXIT
STA. 7727+07 WETLAND D15-104 ENTER
STA. 7727+11 WETLAND D15-104 EXIT
STA. 7728+24 WETLAND D15-104 EXIT

STA. 7746+04 CENTERLINE OF INTERMITTENT STREAM TRIBUTARY TO GREESMAN DITCH

E & S TYPICALS

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

PROFILE

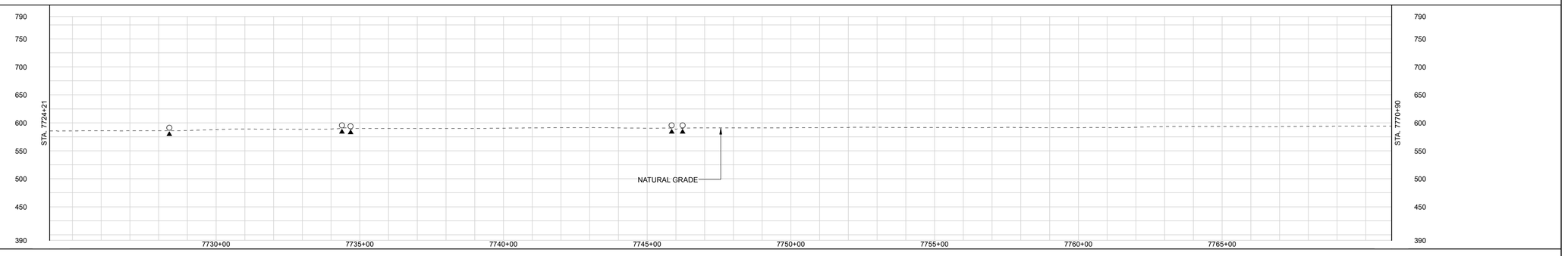
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
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	OL OW AG I/C OL AG OL OW OL AG
% SLOPE	< 5%

P:\265_UPSTREAM_PIPELINE\299K_GIS\ToBeRouted\ NEXUS PROPOSED MAINLINE PIPELINE 162 of 276.pdf - PLOT TIME: 2015-09-16 13:37:19

APPENDIX IA-4	SITE SPECIFIC RESIDENTIAL CROSSING PLANS

DWG. NO.	DESCRIPTION
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:

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

CLYD - WATE
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SANDUSKY COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	CLYD-A-1162	REV. 0B

RIGHT-OF-WAY

TRACT NUMBERS

OH-SA-102.0000	OH-SA-103.0000-RD	OH-SA-102.0000	OH-SA-104.0000-RD	OH-SA-105.0000	OH-SA-106.0000-RR	OH-SA-107.0000	OH-SA-108.0000
9 FT.	209 FT.	1307 FT.	35 FT.	735 FT.	68 FT.	550 FT.	2085 FT.
0.5 RODS	12.5 RODS	79.2 RODS	2.1 RODS	44.5 RODS	4.1 RODS	33.3 RODS	126.4 RODS
7770+90	7770+99	7773+08	7785+17	7788+52	7793+87	7794+55	7800+05	7820+90

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 7770+96 FENCE
STA. 7771+60 ROW
CENTERLINE (SCALED)
STA. 7772+27 I 80 E
CENTERLINE (SCALED)
STA. 7773+07 FENCE
STA. 7783+66 P1 – 30°03' RT
STA. 7785+99 GAS P/L
STA. 7786+03 TOE BANK
STA. 7786+15 TOP BANK
STA. 7786+18 ROAD EDGE
STA. 7786+34 PAVED, CR 89
CENTERLINE
STA. 7786+49 ROAD EDGE
STA. 7786+52 TOP BANK
STA. 7786+70 TOE BANK
STA. 7786+73 DITCH, DEPTH 0
FT. CENTERLINE
STA. 7786+77 TOE BANK
STA. 7786+93 TOP BANK
STA. 7787+02 POWERLINE.
CLEARANCE 15 FT.
STA. 7788+66 P1 – 17°39'24" RT
STA. 7793+91 TOP BANK
STA. 7793+95 TOE BANK
STA. 7793+96 UNDERGROUND
FIBER
STA. 7793+97 DITCH, DEPTH 0
FT. CENTERLINE
STA. 7794+05 ROAD TOE
STA. 7794+15 RAILROAD TOP
STA. 7794+21 RAILROAD
CENTERLINE
STA. 7794+34 ROAD TOP
STA. 7794+36 UNDERGROUND
FIBER
STA. 7794+43 RAILROAD TOE
STA. 7794+45 DITCH, DEPTH 0
FT. CENTERLINE
STA. 7794+47 TOP BANK
STA. 7794+51 TOP BANK
STA. 7819+18 GAS P/L

CLASS LOCATION

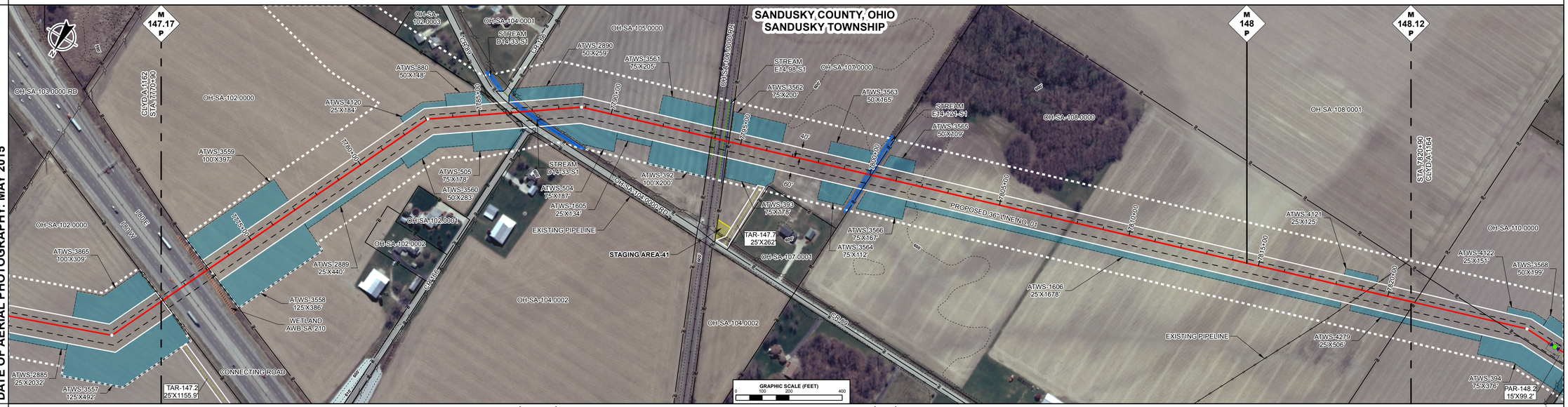
Class 1 | Class 2 | Class 1

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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- WAREYARD
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- 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. 7772+82 WETLAND
AWB-SA-210 ENTER
STA. 7772+99 WETLAND
AWB-SA-210 EXIT
STA. 7788+21 STREAM TRIBUTARY TO MUSKELLUNGE CREEK D14-33-S1 ENTER
STA. 7787+57 STREAM TRIBUTARY TO MUSKELLUNGE CREEK D14-33-S1 EXIT
STA. 7794+48 CENTERLINE OF STREAM E14-88-S1 TRIBUTARY TO LITTLE MUDDY CREEK
STA. 7799+70 STREAM TRIBUTARY TO SANDUSKY RIVER E14-121-S1 ENTER
STA. 7800+21 STREAM TRIBUTARY TO SANDUSKY RIVER E14-121-S1 EXIT

E & S TYPICALS

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PROFILE

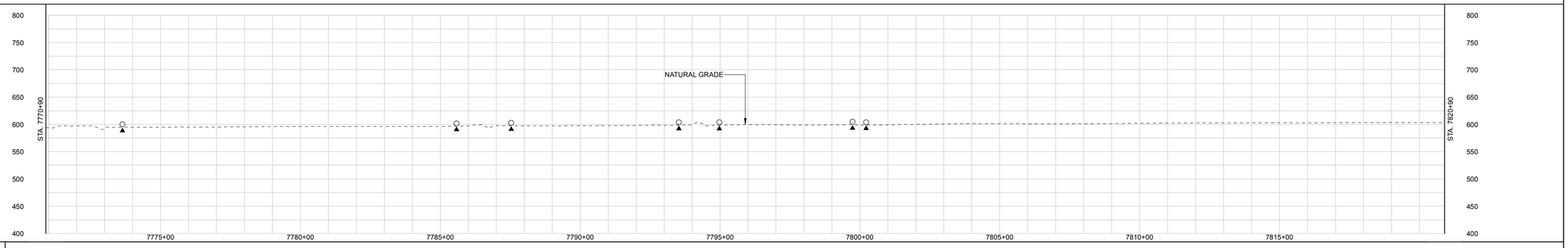
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

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

7820+90	OH-SA-108.0000	7821+04	OH-SA-109.0000	7824+20	OH-SA-110.0000	7827+76	OH-SA-111.0000-RD	7828+18	OH-SA-112.0000	7854+33	OH-SA-113.0000	7867+73	OH-SA-114.0000	7870+90
	14 FT.		316 FT.		356 FT.		42 FT.		2615 FT.		1340 FT.		317 FT.	
	0.8 RODS		19.2 RODS		21.6 RODS		2.5 RODS		158.5 RODS		81.2 RODS		19.2 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 7826+38 PI - 19°46'27" RT
STA. 7826+63 MLV-11
STA. 7827+48 POWERLINE CLEARANCE 15 FT.
STA. 7827+55 TOE BANK
STA. 7827+63 TOE BANK
STA. 7827+64 DITCH DEPTH 14.1 FT. CENTERLINE
STA. 7827+75 TOP BANK
STA. 7827+79 TOP BANK
STA. 7827+82 ROAD EDGE
STA. 7827+86 INCL. SR 19 CENTERLINE
STA. 7828+14 ROAD EDGE
STA. 7828+15 TOP BANK
STA. 7828+16 TOP BANK
STA. 7828+39 TOE BANK
STA. 7828+43 DITCH DEPTH 0.3 FT. CENTERLINE
STA. 7828+47 TOE BANK
STA. 7828+57 TOP BANK

STA. 7854+21 TOP BANK
STA. 7854+35 DITCH DEPTH 1.0 FT. CENTERLINE
STA. 7854+48 TOP BANK

CLASS LOCATION

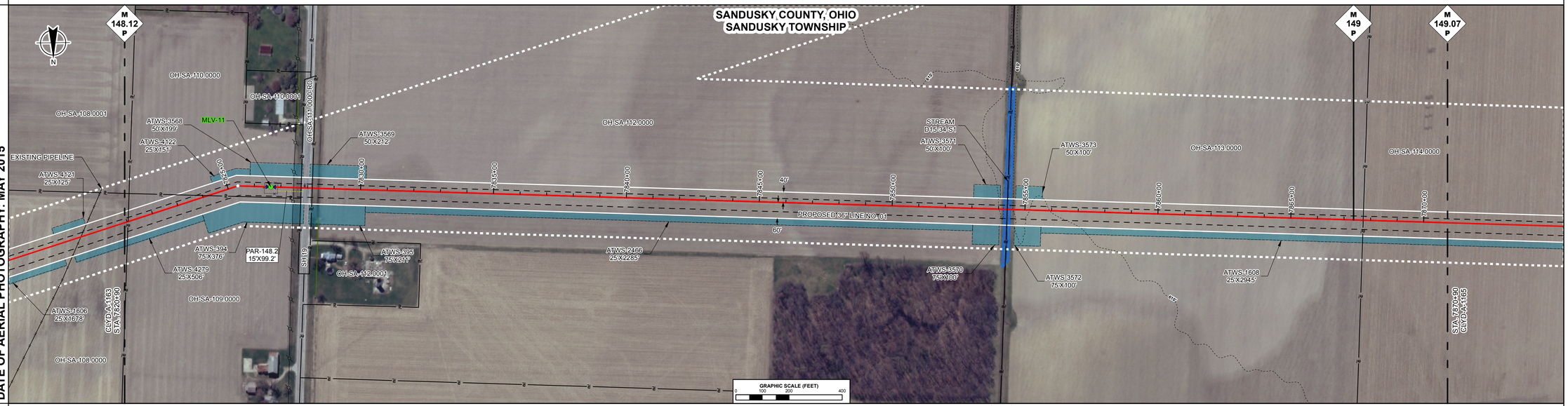
Class 1

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
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- 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



STA. 7854+22 STREAM TRIBUTARY TO LITTLE MUDDY CREEK D15-34-S1 ENTRY
STA. 7854+45 STREAM TRIBUTARY TO LITTLE MUDDY CREEK D15-34-S1 EXIT

ENVIRONMENTAL DATA

E & S TYPICALS

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PROFILE

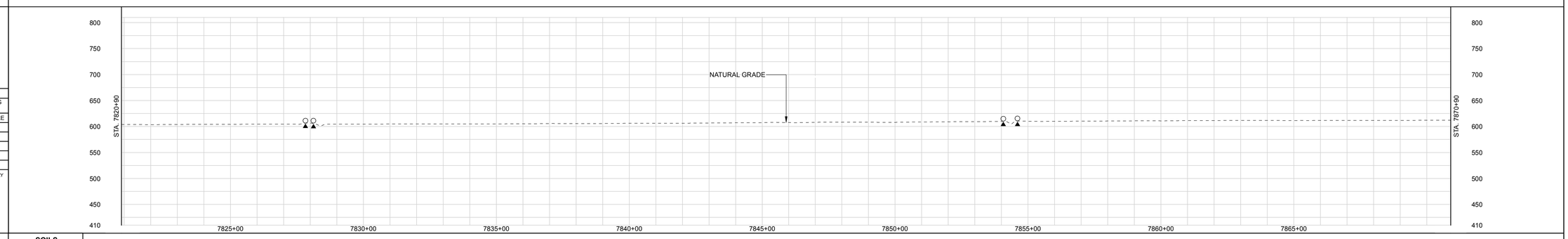
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SLOPE BREAKERS ○
TRENCH PLUG ▲

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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																				
LAND USE		AG				OL	I/C	OL	AG								OL	OW	OL	AG
% SLOPE		< 5%																		

SOILS																				
LAND USE		AG				OL	I/C	OL	AG								OL	OW	OL	AG
% SLOPE		< 5%																		

GENERAL NOTES:

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

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

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION
REFERENCE DRAWINGS		REVISIONS			
		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		

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

CLYD - WATE
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SANDUSKY COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	CLYD-A-1164	REV. 0B

P:\295_UPSTREAM_PIPELINE\295K_OST\ArbRoot\ NEXUS PROPOSED MAINLINE PIPELINE 164 of 276.pdf - PLOT TIME: 2015-09-16 13:42:29

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

7870+90		7880+96		7888+90		7900+68		7907+48		7920+75	
	OH-SA-114.0000 1006 FT. 61.0 RODS		OH-SA-115.0000 594 FT. 36.0 RODS		OH-SA-116.0000 1373 FT. 83.2 RODS		OH-SA-117.0000-RD 25 FT. 1.5 RODS OH-SA-118.0000 659 FT. 39.9 RODS		OH-SA-119.0000 1327 FT. 80.4 RODS		OH-SA-120.0000 15 FT. 0.9 RODS

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 7880+76 POWERLINE CLEARANCE 37 FT.
STA. 7880+89 POWERLINE (SCALED)
STA. 7881+45 POWERLINE CLEARANCE 37 FT.
STA. 7882+55 TOWER, 440 FT. LEFT
STA. 7886+67 TOP BANK
STA. 7887+01 TOP BANK
STA. 7892+62 P1 = 47°38' LT
STA. 7900+58 TOE BANK
STA. 7900+62 TOE BANK
STA. 7900+74 PAVED, CR 142 CENTERLINE
STA. 7900+80 EDGE
STA. 7900+90 DITCH, DEPTH 0
FT. CLEARANCE 34.5
STA. 7900+93 POWERLINE CLEARANCE 22 FT.
STA. 7900+95 TOP BANK

CLASS LOCATION

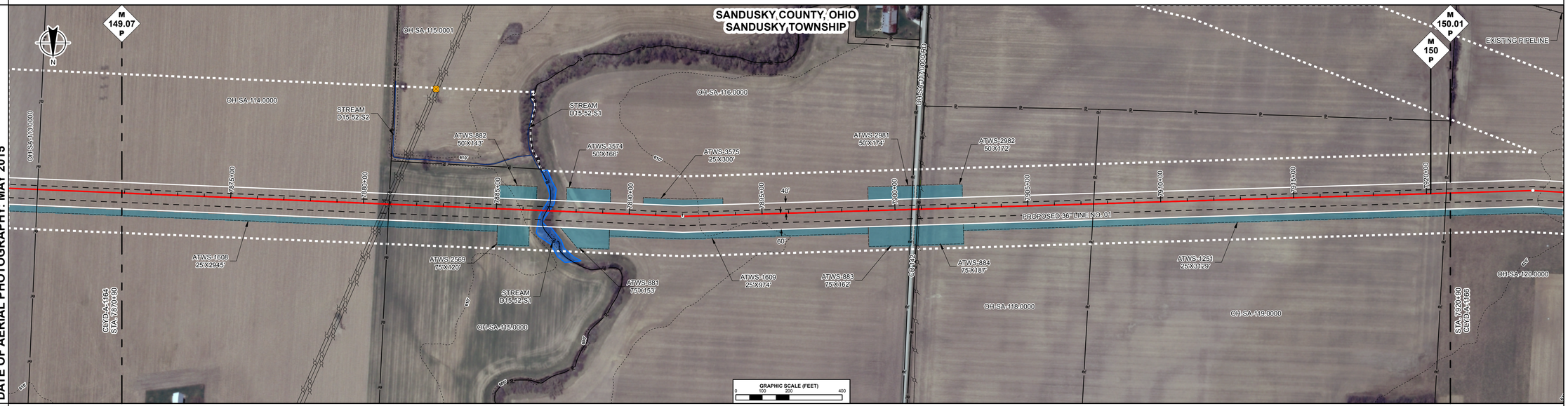
Class 1

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST
- 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. 7886+57 STREAM LITTLE MUDDY CREEK D15-52-S1 ENTER
STA. 7887+18 STREAM LITTLE MUDDY CREEK D15-52-S1 EXIT

E & S TYPICALS

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

PROFILE

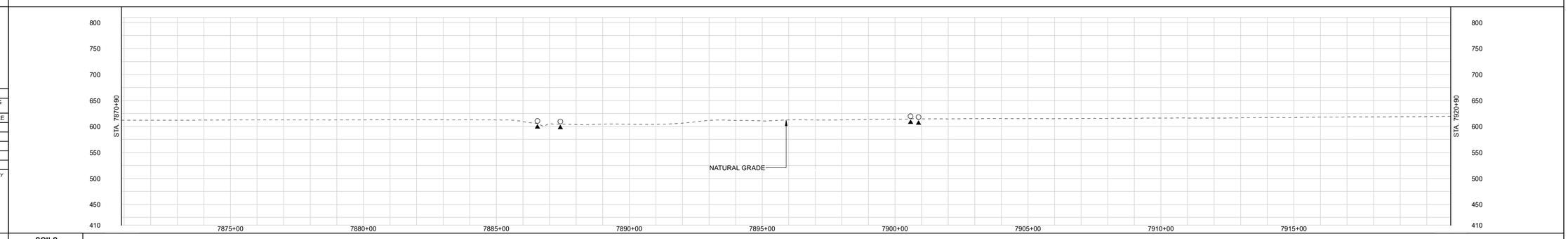
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

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				OL	OW	OL	AG			I/C	AG
% SLOPE	< 5%				5-15%			< 5%				

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

CLYD - WATE
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SANDUSKY COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	CLYD-A-1165	REV. 0A

P:\205_UPSTREAM_PIPELINE\205K_GIS\ToBeRouted\ NEXUS PROPOSED MAINLINE PIPELINE 165 of 276.pdf - PLOT TIME: 2015-09-16 15:33:54

RIGHT-OF-WAY

TRACT NUMBERS

7920+90	OH-SA-120.0000	7933+91	OH-SA-121.0000-RD	7934+21	OH-SA-122.0000	7945+57	OH-SA-123.0000	7957+71	OH-SA-124.0000-RD	7958+18	OH-SA-125.0000	7970+90
	1291 FT. 78.2 RODS		40 FT. 2.4 RODS		1136 FT. 68.8 RODS		1214 FT. 73.6 RODS		47 FT. 2.8 RODS		1272 FT. 77.1 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 7924+91 PI – 5°8'6" RT

STA. 7933+31 PI – 12°17" LT
STA. 7933+76 TOP BANK
STA. 7933+81 TOE BANK
STA. 7933+82 DITCH, DEPTH 0
FT. CENTERLINE
STA. 7933+83 TOE BANK
STA. 7933+89 TOP BANK
STA. 7934+01 PAVED, CR 128
CENTERLINE
STA. 7934+12 ROAD EDGE
STA. 7934+14 TOE BANK
STA. 7934+20 TOE BANK
STA. 7934+22 DITCH, DEPTH 0
FT. CENTERLINE
STA. 7934+22 TOE BANK
STA. 7934+24 TOP BANK
STA. 7934+45 POWERLINE, CLEARANCE 25 FT.
STA. 7934+26 POWERLINE, CLEARANCE 20 FT.

STA. 7949+12 PI – 11°15'52" RT

STA. 7957+76 TOP BANK
STA. 7957+80 DITCH, DEPTH 0
FT. CENTERLINE
STA. 7957+86 TOP BANK
STA. 7957+94 ROAD EDGE
STA. 7957+95 PAVED, CR 122
CENTERLINE
STA. 7957+98 MUNICIPALITY LINE
STA. 7958+04 ROAD EDGE
STA. 7958+05 TOP BANK
STA. 7958+12 TOE BANK

CLASS LOCATION

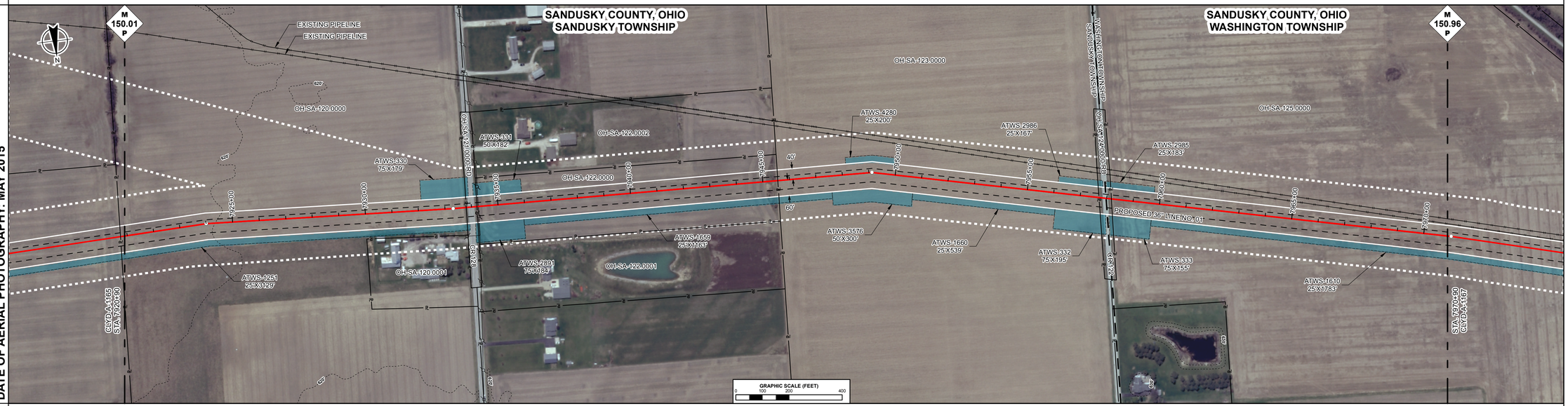
Class 1

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
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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)
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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

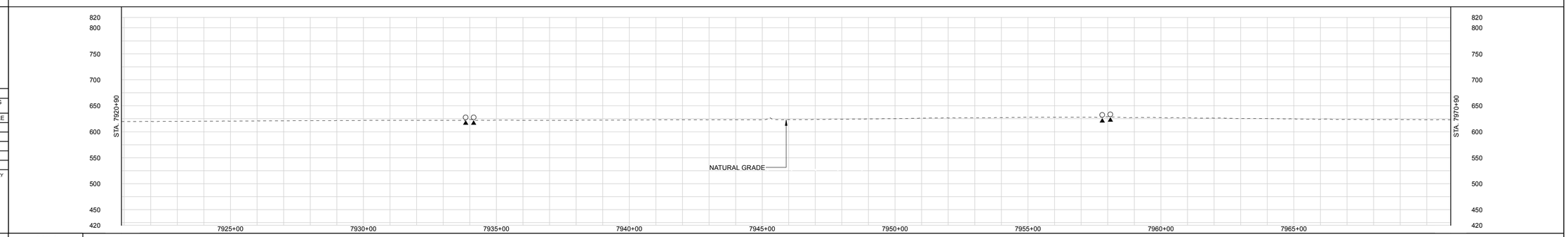
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
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				I/C				AG						I/C	AG
% SLOPE		< 5%						5-15%		< 5%							

P:\265_UPSTREAM_PIPELINE\299X_GIS\ToBeRoute\ NEXUS PROPOSED MAINLINE PIPELINE 166 of 278.pdf - PLOT TIME: 2015-09-16 15:35:55

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

CLYD - WATE
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SANDUSKY COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	CLYD-A-1166	REV. 0A

RIGHT-OF-WAY

TRACT NUMBERS

7970+90	OH-SA-125.0000	7984+95	OH-SA-126.0000	7985+95	OH-SA-127.0000	7987+74	OH-SA-128.0000	7992+01	OH-SA-129.0000	7998+06	OH-SA-130.0000	8011+02	OH-SA-131.0000-RD	8011+66	OH-SA-132.0000	8017+60	OH-SA-133.0000	8017+83	OH-SA-134.0000	8020+90
	1395 FT. 84.5 RODS		110 FT. 6.7 RODS		179 FT. 10.8 RODS		427 FT. 25.9 RODS		605 FT. 36.7 RODS		1296 FT. 78.5 RODS		64 FT. 3.9 RODS		594 FT. 36.0 RODS		23 FT. 1.4 RODS		307 FT. 18.6 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 7971+04 PI - 1°58'37" RT
STA. 7978+84 TOP BANK
STA. 7978+95 DITCH, DEPTH 0
STA. 7979+07 FT. CENTERLINE
STA. 7979+07 TOE BANK

STA. 7984+76 PI - 3°47'8" LT
STA. 7986+59 TOE BANK
STA. 7986+76 TOP BANK
STA. 7986+85 ROAD EDGE
STA. 7986+85 PAVED, NORTH COAST INLAND TR
CENTERLINE
STA. 7987+03 ROAD EDGE
STA. 7987+07 TOP BANK
STA. 7987+26 TOE BANK
STA. 7987+81 FENCE

STA. 7990+52 PI - 4°44'9" LT

STA. 8008+07 PI - 1°11'43" RT

STA. 8009+98 PI - 6°51'20" RT
STA. 8011+03 POWERLINE
CLEARANCE 75 FT.
STA. 8011+07 TOP BANK
STA. 8011+10 TOE BANK
STA. 8011+11 DITCH, DEPTH 0
FT. CENTERLINE
STA. 8011+13 TOE BANK
STA. 8011+19 TOP BANK
STA. 8011+33 ROAD EDGE
STA. 8011+33 PAVED, CR 106
CENTERLINE
STA. 8011+47 ROAD EDGE
STA. 8011+47 TOP BANK
STA. 8011+54 TOE BANK
STA. 8011+57 DITCH, DEPTH 0
FT. CENTERLINE
STA. 8011+60 TOE BANK
STA. 8011+63 TOP BANK

STA. 8019+72 PI - 17°14" LT

STA. 8020+48 PI - 3°26'18" LT

CLASS LOCATION

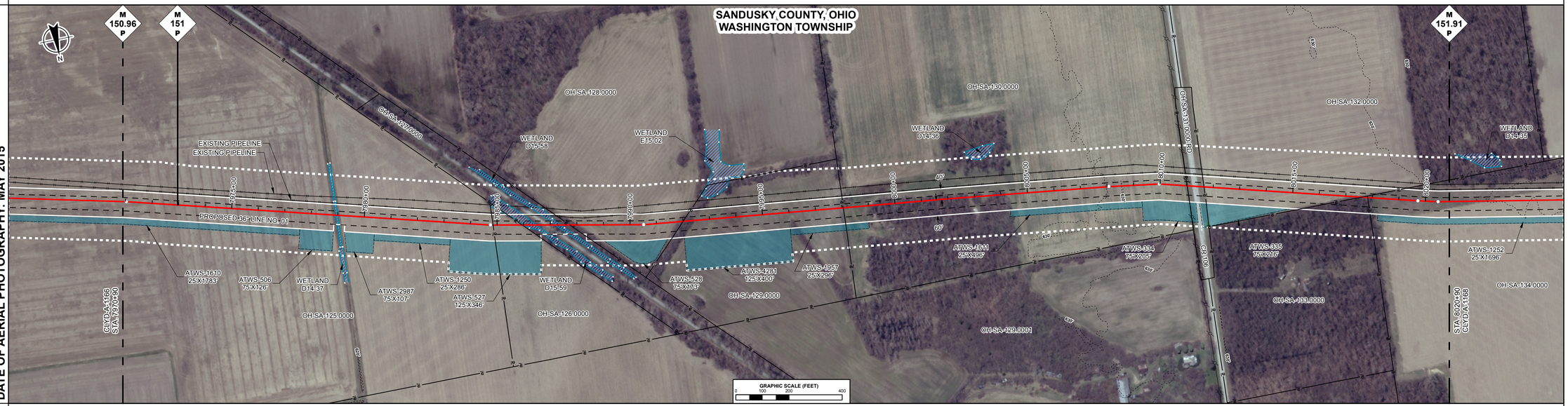
Class 1

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
- PROPOSED NEXUS PIPELINE
- INTERCONNECTING PIPELINE TO TGP
- CONSTRUCTION LIMIT
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- WAREYARD
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- COMPRESSOR STATION SITE
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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 (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. 7978+84 WETLAND D14-37 ENTER
STA. 7979+08 WETLAND D14-37 EXIT

STA. 7985+35 WETLAND D15-59 ENTER

STA. 7986+63 WETLAND D15-58 ENTER
STA. 7988+97 WETLAND D15-59 EXIT

STA. 7987+89 WETLAND D15-58 EXIT

E & S TYPICALS

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PROFILE

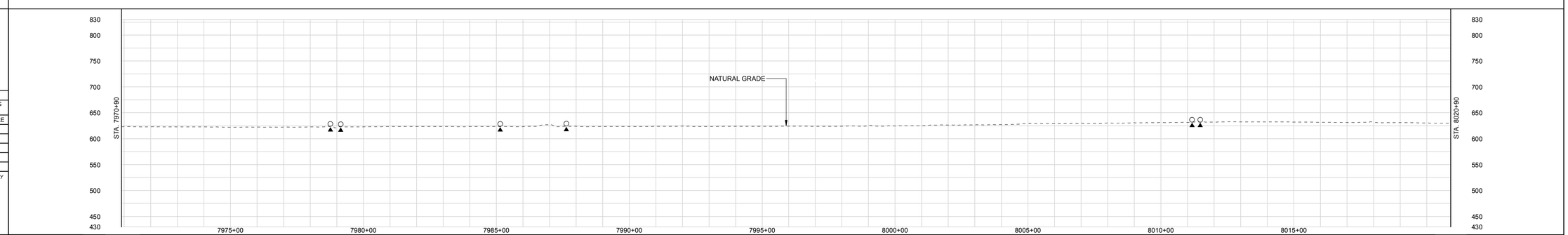
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SLOPE BREAKERS ○
TRENCH PLUG ▲

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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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		OL	AG		F/W	I/C	F/W	AG		F/W	AG		OL	F/W	OL		AG		I/C	AG	
% SLOPE		< 5%						5-15%									< 5%						

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

CLYD - WATE
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SANDUSKY COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017 | W.B.S. | Scale 1" = 200' | CLYD-A-1167 | REV. 0A

P:\205_UPSTREAM_PIPELINE\206K_OST\ArbRoot\ln NEXUS PROPOSED MAINLINE PIPELINE 16f of 278.pdf - PLOT TIME: 2015-09-16 15:37:55

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

8020+90 — **OH-SA-134.0000** — 1688 FT. — 102.3 RODS — 8037+78

8037+78 — **OH-SA-135.0000** — 1186 FT. — 71.9 RODS — 8049+64

8049+64 — **OH-SA-136.0000** — 1129 FT. — 68.4 RODS — 8060+93

8060+93 — **OH-SA-137.0000** — 283 FT. — 17.2 RODS — 8063+76

8063+76 — **OH-SA-138.0000-RD** — 96 FT. — 5.8 RODS — 8064+72

8064+72 — **OH-SA-139.0000** — 618 FT. — 37.5 RODS — 8070+90

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 8031+06 TOP BANK
STA. 8031+18 TOP DEPTH 0
FT. CENTERLINE
STA. 8031+19 TOP BANK
STA. 8031+27 TOP DEPTH 0
FT. CENTERLINE
STA. 8031+27 TOP BANK
STA. 8031+35 TOP BANK

STA. 8061+54 FENCE

STA. 8063+57 FENCE
STA. 8063+64 TOP BANK
STA. 8063+65 POWERLINE CLEARANCE 50 FT
STA. 8063+70 DITCH DEPTH 0.1 FT. CENTERLINE
STA. 8064+08 TOP BANK
STA. 8064+08 ROAD EDGE
STA. 8064+42 PIPE, SR 590 CENTERLINE
STA. 8064+41 ROAD EDGE
STA. 8064+44 TOP BANK
STA. 8064+76 DITCH DEPTH 0.3 FT. CENTERLINE
STA. 8064+91 TOP BANK

CLASS LOCATION

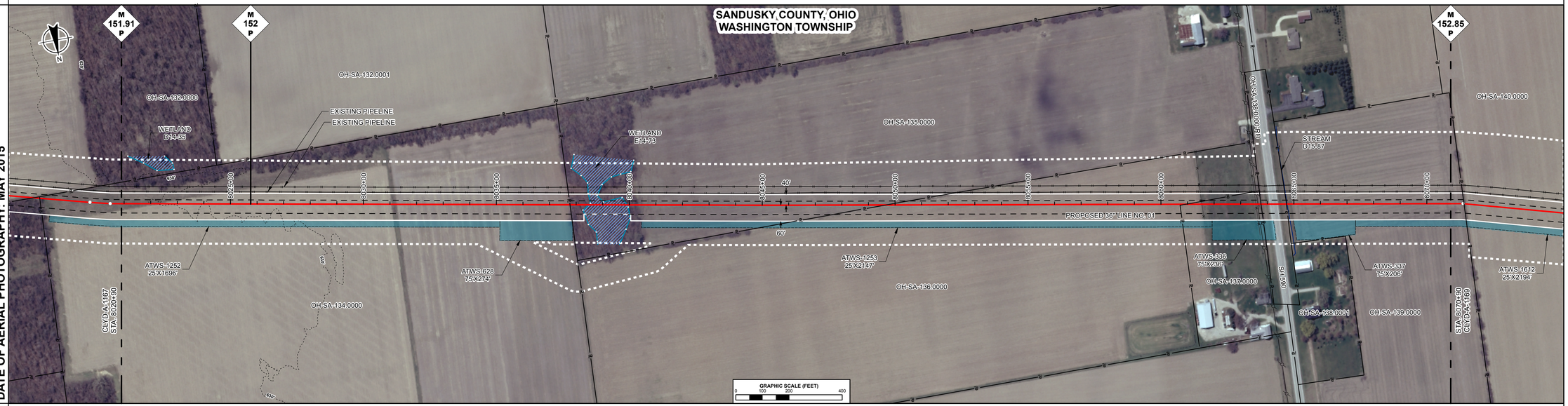
Class 1

PIPE MATERIAL

ALIGNMENT LEGEND

- PIPELINE MILEPOST (M 0.0 P)
- PROPOSED NEXUS PIPELINE
- INTERCONNECTING PIPELINE TO TGP
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- APPROXIMATE WATERBODY BANK
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- 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. 8038+27 WETLAND E14-73 ENTER

STA. 8040+01 WETLAND E14-73 EXIT

STA. 8064+74 CENTERLINE OF STREAM D15-87 TRIBUTARY TO MUDDY CREEK

E & S TYPICALS

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

PROFILE

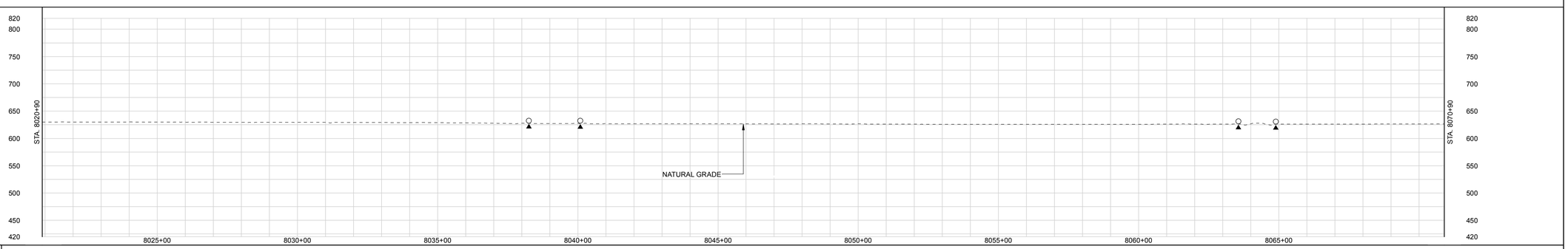
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
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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		AG						OL	I/C	AG	OW	AG
% SLOPE		< 5%																5-15%			< 5%

P:\205_UPSTREAM_PIPELINE\206K_OST\ArbRoute\ NEXUS PROPOSED MAINLINE PIPELINE 168 of 278.pdf - PLOT TIME: 2015-09-17 10:32:25

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

ENGINEERING APPROVALS

BID		CONSTRUCTION	
SIGNATURE	DATE	SIGNATURE	DATE

CLYD - WATE
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SANDUSKY COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	CLYD-A-1168	REV. 0A

RIGHT-OF-WAY

TRACT NUMBERS

8070+90	OH-SA-139.0000	8071+40	OH-SA-140.0000	8077+57	OH-SA-141.0000	8091+24	OH-SA-142.0000	8102+35	OH-SA-143.0000	8117+75	OH-SA-144.0000-RD	8118+37	OH-SA-145.0000	8120+90
	50 FT. 3.0 RODS		617 FT. 37.4 RODS		1367 FT. 82.8 RODS		1111 FT. 67.3 RODS		1540 FT. 93.3 RODS		62 FT. 3.8 RODS		253 FT. 15.3 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 8071+36 PI – 5°31'43" RT

STA. 8096+20 TOP BANK
STA. 8096+70 TOP BANK
STA. 8096+77 TOP BANK
STA. 8097+17 TOP BANK
STA. 8097+38 TOP BANK
STA. 8097+53 MUNICIPALITY LINE
STA. 8097+68 TOP BANK

STA. 8100+37 PI – 1°0'28" RT

STA. 8118+71 PI – 3°54'49" RT
STA. 8117+77 UNDERGROUND TELEPHONE CABLE
STA. 8117+81 TOP BANK
STA. 8117+81 POWERLINE, 612 AMOTC 30' EASEMENT
STA. 8117+83 DITCH, DEPTH 0 FT, CENTERLINE
STA. 8117+93 TOP BANK
STA. 8118+05 ROAD EDGE
STA. 8118+06 PAVED, CR 92 CENTERLINE
STA. 8118+06 ROAD EDGE
STA. 8118+27 TOP BANK
STA. 8118+33 DITCH, DEPTH 0 FT, CENTERLINE
STA. 8118+41 TOP BANK

CLASS LOCATION

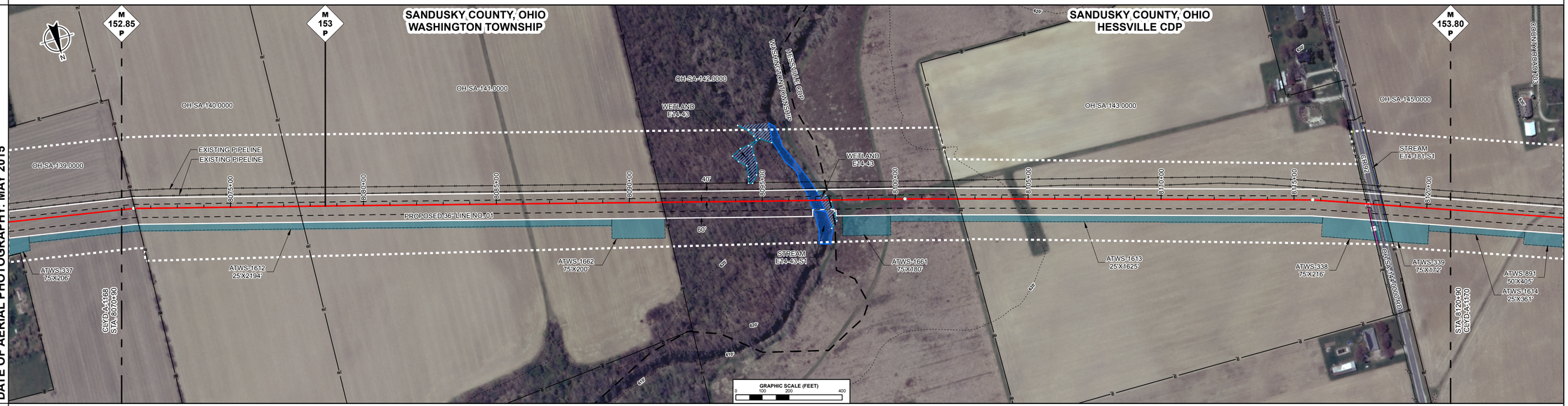
Class 1 | Class 2

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 (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. 8096+60 STREAM MUDDY CREEK E14-43-S1 ENTER
STA. 8096+84 WETLAND E14-43 ENTER
STA. 8097+38 STREAM MUDDY CREEK E14-43-S1 EXIT
STA. 8097+68 WETLAND E14-43 EXIT

STA. 8118+43 CENTERLINE OF STREAM E14-181-S1, TRIBUTARY TO MUDDY CREEK

E & S TYPICALS

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

PROFILE

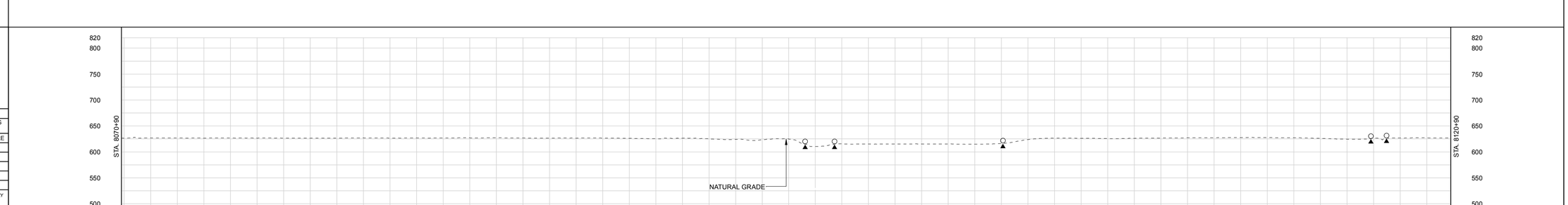
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

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

P:\205_UPSTREAM_PIPELINE\206K_OST\ArcRoute\ NEXUS PROPOSED MAINLINE PIPELINE 169 of 276.pdf - PLOT TIME: 2015-09-17 10:35:43

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION
		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.

DRAWN BY: NAME

ENGINEERING APPROVALS

BID		CONSTRUCTION	
SIGNATURE	DATE	SIGNATURE	DATE

CLYD - WATE
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SANDUSKY COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017 | W.B.S. | Scale 1" = 200' | CLYD-A-1169 | REV. 0A

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

8120+90 — **OH-SA-145.0000** — 1283 FT. — 77.8 RODS — 8133+73

8133+73 — **OH-SA-146.0000** — 359 FT. — 21.8 RODS — 8137+32

8137+32 — **OH-SA-147.0000** — 50 FT. — 3.0 RODS — 8137+82

8137+82 — **OH-SA-146.0000** — 548 FT. — 33.2 RODS — 8143+30

8143+30 — **OH-SA-148.0000-RD** — 129 FT. — 7.8 RODS — 8144+60

8144+60 — **OH-SA-149.0000** — 409 FT. — 24.8 RODS — 8148+69

8148+69 — **OH-SA-150.0000** — 1331 FT. — 80.7 RODS — 8162+00

8162+00 — **OH-SA-151.0000** — 754 FT. — 45.7 RODS — 8169+54

8169+54 — **OH-SA-152.0000-RD** — 55 FT. — 3.3 RODS — 8170+08

8170+08 — **OH-SA-153.0000** — 82 FT. — 5.0 RODS — 8170+90

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 8125+97.21 – 45°03'0" LT
STA. 8126+64 GAS PL
STA. 8127+00 GAS PL
STA. 8129+45.71 – 5°46'9" RT
STA. 8137+89 COUNTY ROAD 709 CENTERLINE (SCALED)
STA. 8141+26.81 – 45°03'0" LT
STA. 8143+30 TOP BANK
STA. 8143+38 FT. CENTERLINE
CLEARANCE 23 FT.
STA. 8143+38 DITCH, DEPTH 0
FT. CENTERLINE
STA. 8143+58 TOP BANK
STA. 8143+58 ROAD EDGE
STA. 8143+58 SH 20 E, SH 20 W
CENTERLINE
STA. 8143+90 ROAD EDGE
STA. 8143+91 TOP BANK
STA. 8144+09 DITCH, DEPTH 0
FT. CENTERLINE
STA. 8143+96 TOP BANK
STA. 8144+06 ROAD EDGE
STA. 8144+11 PAVED, SH 20 E
CENTERLINE
STA. 8144+29 ROAD EDGE
STA. 8144+29 TOP BANK
STA. 8144+39 DITCH, DEPTH 0
FT. CENTERLINE
STA. 8144+45 FT. CENTERLINE
CLEARANCE 23 FT.
STA. 8144+45.51 – 5°46'9" RT
STA. 8144+50 TOP BANK
STA. 8148+55.81 – 3°39'52" RT
STA. 8152+21 ROAD EDGE
STA. 8152+26 DIRT, NONE
CENTERLINE
STA. 8152+31 ROAD EDGE
STA. 8154+59 TOP BANK
STA. 8154+69 DITCH, DEPTH
1.0 FT. CENTERLINE
STA. 8154+71 ROAD EDGE
STA. 8154+81 MUNICIPALITY
LINE
STA. 8168+39.91 – 2°46'4" RT
STA. 8169+54 TOP BANK
STA. 8169+61 DITCH, DEPTH 0
FT. CENTERLINE
STA. 8169+69 TOP BANK
STA. 8169+77 ROAD EDGE
STA. 8169+83 PAVED, CR
87/LONG RD
STA. 8169+84 FT. CENTERLINE
STA. 8169+95 ROAD EDGE
STA. 8169+97 TOP BANK
STA. 8170+04 DITCH, DEPTH 0
FT. CENTERLINE
STA. 8170+11 TOP BANK

CLASS LOCATION

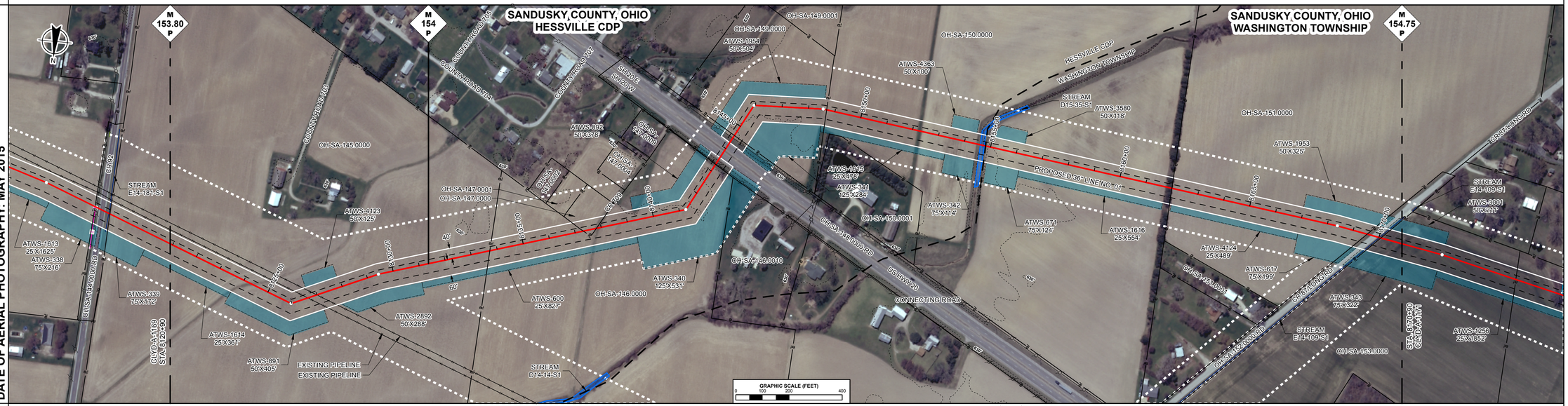
Class 2 | Class 3

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 (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. 8154+58 STREAM TRIBUTARY TO MUDDY CREEK D15-35-S1 ENTER
STA. 8154+82 STREAM TRIBUTARY TO MUDDY CREEK D15-35-S1 EXIT
STA. 8170+02 CENTERLINE OF STREAM E14-109-S1 TRIBUTARY TO MUDDY CREEK

E & S TYPICALS

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

PROFILE

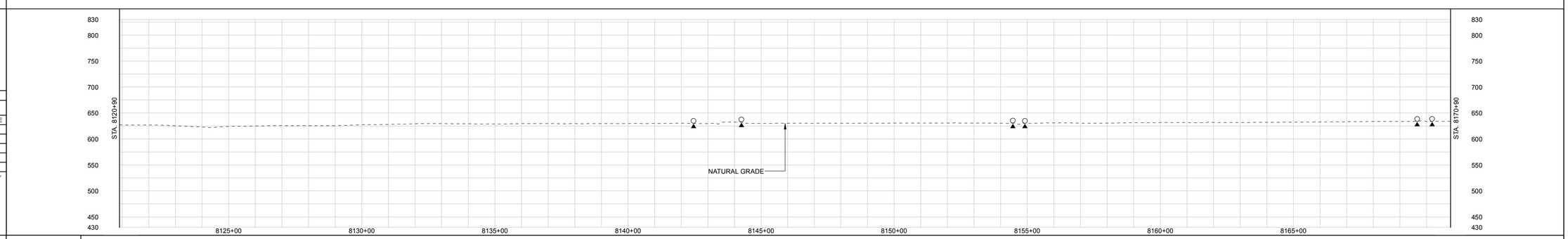
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
5-15%	300 FT	< 5%	NO STRUCTURE
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								I/C	AG			OW	AG					I/C	OW	AG
% SLOPE		< 5%														

GENERAL NOTES:

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

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

DWG. NO.	DESCRIPTION
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		

DRAWN BY: NAME

ENGINEERING APPROVALS

BID		CONSTRUCTION	
SIGNATURE	DATE	SIGNATURE	DATE

CLYD - WATE
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SANDUSKY COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017 | W.B.S. | Scale 1" = 200' | CLYD-A-1170 | REV. 0B

IG.#

P:\295_UPSTREAM_PIPELINE\295K_GIS\ToBeRouted\ NEXUS PROPOSED MAINLINE PIPELINE 170 of 278.pdf - PLOT TIME: 2015-09-17 10:37:54

RIGHT-OF-WAY

TRACT NUMBERS

8170+90	OH-SA-153.0000	8175+40	OH-SA-154.0000	8179+03	OH-SA-155.0000	8185+79	OH-SA-156.0000	8203+32	OH-SA-157.0000	8216+82	OH-SA-158.0000	8218+20	OH-SA-159.0000	8220+90
	450 FT.		362 FT.		676 FT.		1753 FT.		1350 FT.		138 FT.		270 FT.	
	27.3 RODS		21.9 RODS		41.0 RODS		106.2 RODS		81.8 RODS		8.4 RODS		16.4 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 8172+47 PI – 33°23' RT

STA. 8191+49 PI – 6°56'45" RT

STA. 8193+70 TOP BANK
STA. 8193+85 DITCH, DEPTH 0
STA. 8194+01 CENTERLINE
STA. 8194+24 TOP BANK

STA. 8217+07 PI – 29°59'59" RT

STA. 8219+12 PI – 6°43'31" LT

CLASS LOCATION

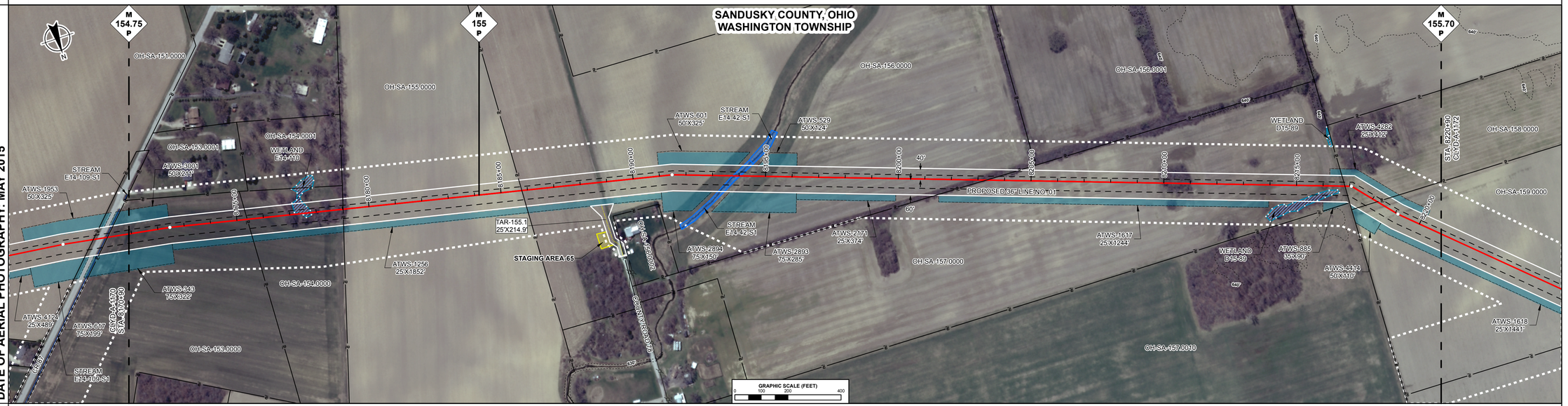
Class 3 | Class 1

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
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- 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. 8177+14 WETLAND E14-110 ENTER
STA. 8177+82 WETLAND E14-110 EXIT

STA. 8193+22 STREAM NINEMILE CREEK E14-42-S1 ENTER
STA. 8194+47 STREAM NINEMILE CREEK E14-42-S1 EXIT

STA. 8215+04 WETLAND D15-89 ENTER
STA. 8216+63 WETLAND D15-89 EXIT

E & S TYPICALS

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

PROFILE

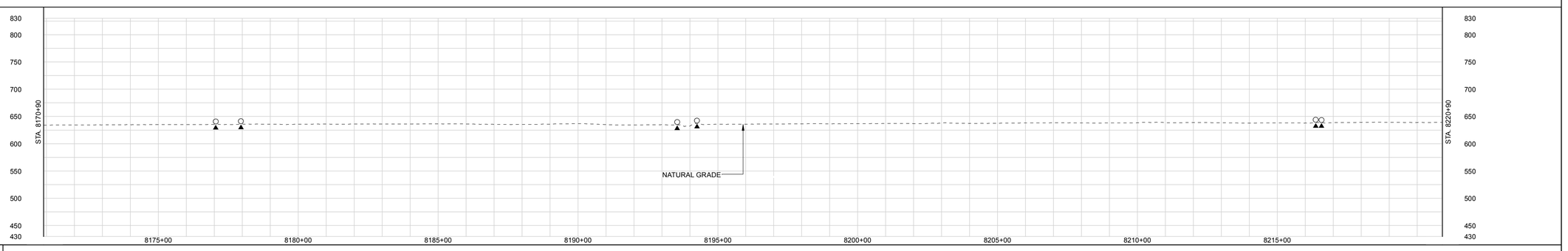
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SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
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		OL		AG		OL	OW	OL		AG		OL		AG			
% SLOPE		< 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
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		

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

CLYD - WATE
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SANDUSKY COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	CLYD-A-1171	REV. 0B

P:\205_UPSTREAM_PIPELINE\206K_OST\ArbRoot\ NEXUS PROPOSED MAINLINE PIPELINE 171 of 278.pdf - PLOT TIME: 2015-09-16 16:14:13

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

8229+90 | OH-SA-159.0000 1154 FT. 69.9 RODS | 8232+44 | OH-SA-160.0000-RD 54 FT. 3.3 RODS | 8232+98 | OH-SA-161.0000 1996 FT. 121.0 RODS | 8252+94 | OH-SA-162.0000 581 FT. 35.2 RODS | 8258+75 | OH-SA-163.0000 755 FT. 45.8 RODS | 8266+30 | OH-SA-164.0000 460 FT. 27.9 RODS | 8270+90

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 8227+90 PI - 45°0'0" LT
STA. 8229+26 PI - 4°11'32" RT
STA. 8232+47 TOE BANK
STA. 8232+50 TOP BANK
STA. 8232+51 EDGE OF ROAD
STA. 8232+60 PAVED, CR 74
CENTERLINE
STA. 8232+69 EDGE OF ROAD
STA. 8232+69 TOP BANK
STA. 8232+78 TOE BANK
STA. 8232+80 DITCH, DEPTH
STA. 8232+80 CENTERLINE
STA. 8232+82 TOE BANK
STA. 8232+87 POWERLINE
STA. 8232+90 EDGE OF ROAD
STA. 8232+90 TOP BANK
STA. 8233+97 PI - 44°59'59" RT
STA. 8235+59 PI - 1°46'3" RT
STA. 8243+52 GAS PL
STA. 8243+89 GAS PL
STA. 8251+24 PI - 30°0'0" LT
STA. 8252+62 PI - 5°31'31" LT
STA. 8253+33 PI - 17°35'38" LT
STA. 8266+21 TOP BANK
STA. 8266+34 DITCH, DEPTH
STA. 8266+42 CENTERLINE
STA. 8266+42 TOP BANK

CLASS LOCATION

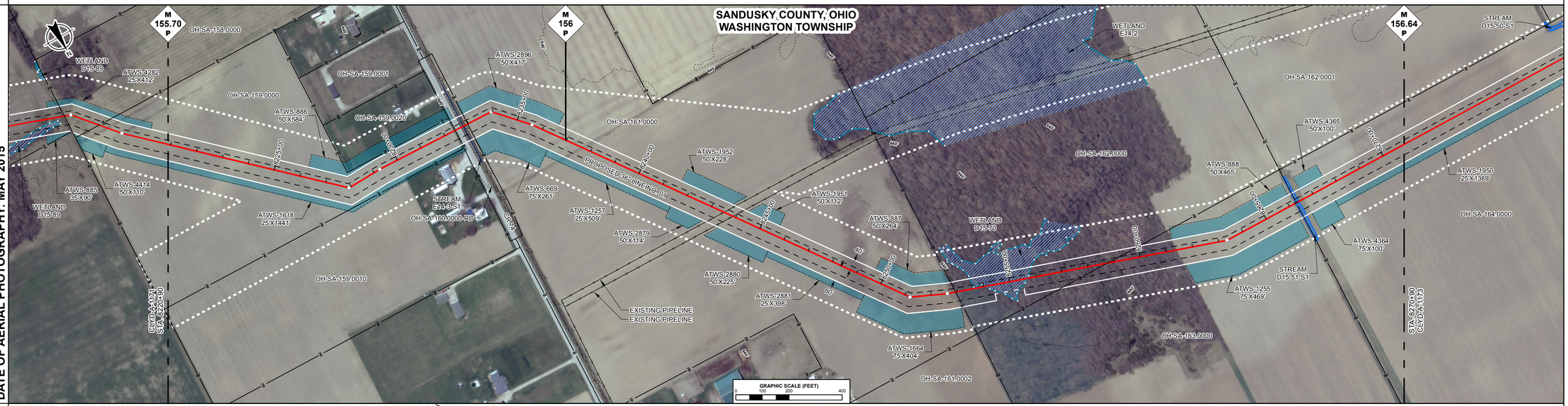
Class 1

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
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- FACILITIES PERMANENT WORKSPACE
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- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
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- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
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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. 8232+80 CENTERLINE OF 30'X84' (E14-3-S1) TRIBUTARY TO NINEMILE CREEK
STA. 8253+56 WETLAND D15-70 ENTER
STA. 8265+89 WETLAND D15-70 EXIT
STA. 8266+27 STREAM TRIBUTARY TO WOLF CREEK D15-51-S1 ENTER
STA. 8266+41 STREAM TRIBUTARY TO WOLF CREEK D15-51-S1 EXIT

E & S TYPICALS

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

PROFILE

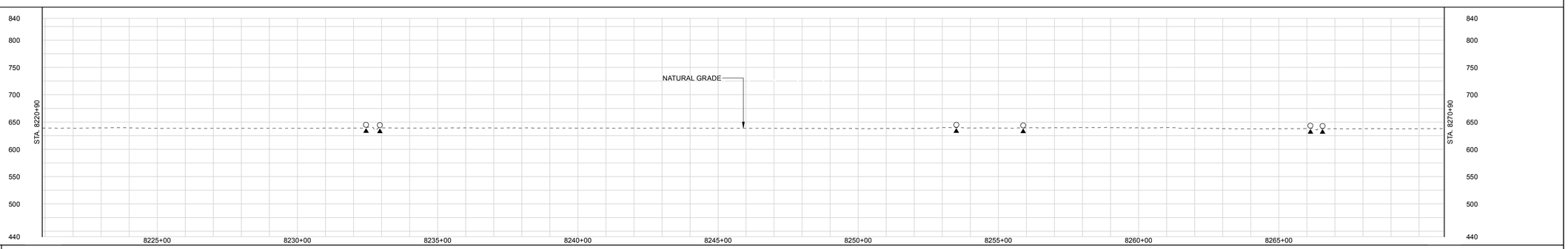
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

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		I/C	OW	AG			F/W		AG		OL	OW	OL	AG	
% SLOPE		< 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	0			ISSUED FOR FERC FILING (11/2015)
		0A			ISSUED FOR FERC FILING (11/2015)

REFERENCE DRAWINGS | REVISIONS

ITEM	DESCRIPTION	QTY

MATERIALS

CLYD - WATE
NEXUS PROJECT
PROPOSED 36" LINE NO. 01
ALIGNMENT SHEET

LOC. SANDUSKY COUNTY, OHIO

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	CLYD-A-1172	REV. 0A

P:\265_UPSTREAM_PIPELINE\299K_OST\ArbRoot\ NEXUS PROPOSED MAINLINE PIPELINE 172 of 278.pdf - PLOT TIME: 2015-09-16 16:16:5