RIGHT-OF-WAY

TRACT NUMBERS

	MI-WA-003.0000		MI-WA-005.0000		MI-WA-006.0000			MI-WA-008.0000		MI-WA-009.0000-RR		MI-WA-010.0000	
12548+20	76.2 RODS	12560+78	42.4 RODS	12567+77	60.8 RODS	12577+81	MI-WA-007.0000-RD	88.2 RODS	12592+36	3.6 RODS	12592+96	31.8 RODS	12598+20
	1258 FT.		699 FT.		1004 FT.			1455 FT.		60 FT.		524 FT.	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 12549+75 HDD EXIT

STA. 12556+52 PI ~ 15°21'20" RT

STA. 12575+25 PI ~ 5°30'25" LT

STA. 12577+56 CULVERT
STA. 12577+89 PAVED, PLATT RD CENTERLINE
STA. 12578+06 ROAD EDGE
STA. 12578+09 TOP BANK
STA. 12578+19 DITCH, DEPTH 0.4 FT. CENTERLINE
STA. 12578+26 TOP BANK
STA. 12579+34 POWERLINE VERT. CLEARANCE 26 FT.

STA. 12580+15 PI ~ 29°54'15" LT

STA. 12582+63 PI ~ 1°46'12" RT

STA. 12589+65 PI ~ 60°0'0" RT

STA. 12592+57 RAILROAD TOE
STA. 12592+61 RAILROAD TOP
STA. 12592+66 RAILROAD CENTERLINE
STA. 12592+71 RAILROAD TOP
STA. 12592+75 RAILROAD TOE
STA. 12594+04 PI ~ 30°0'0" LT
STA. 12594+49 PI ~ 15°29'53" LT

CLASS LOCATION

CLASS 1

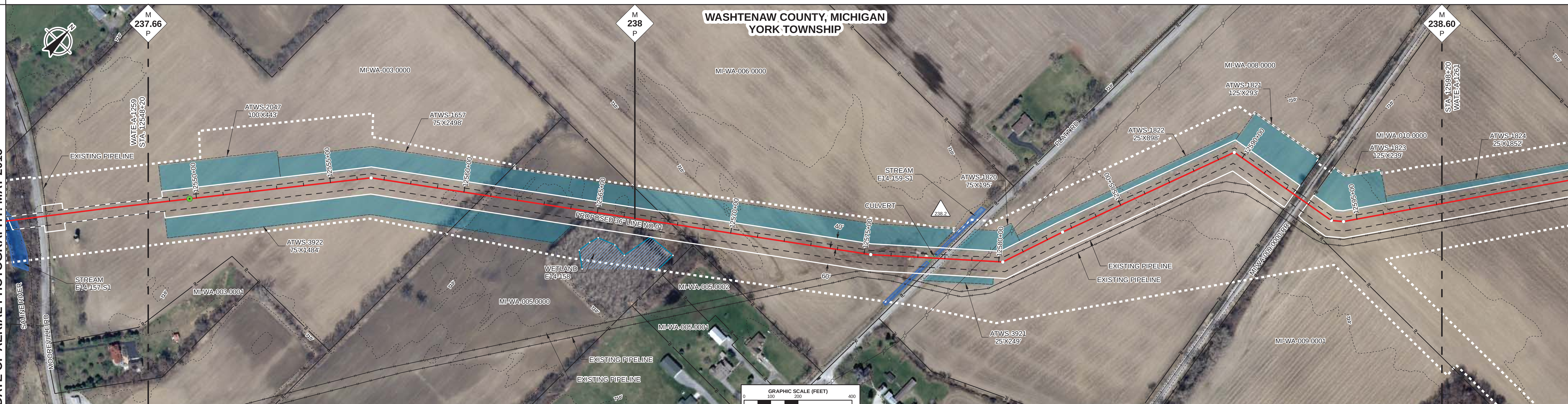
PIPE MATERIAL

PROJECT MODIFICATION TABLE	
PROJ. MOD. NUMBER	DESCRIPTION
238.2	RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.

ALIGNMENT LEGEND

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

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 12576+89 STREAM TRIBUTARY TO MCINTYRE DRAIN E14-159-S1 ENTER
STA. 12577+41 STREAM TRIBUTARY TO MCINTYRE DRAIN E14-159-S1 EXIT
STA. 12577+63 STREAM TRIBUTARY TO MCINTYRE DRAIN E14-159-S1 ENTER
STA. 12577+96 STREAM TRIBUTARY TO MCINTYRE DRAIN E14-159-S1 EXIT

E & S TYPICALS

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

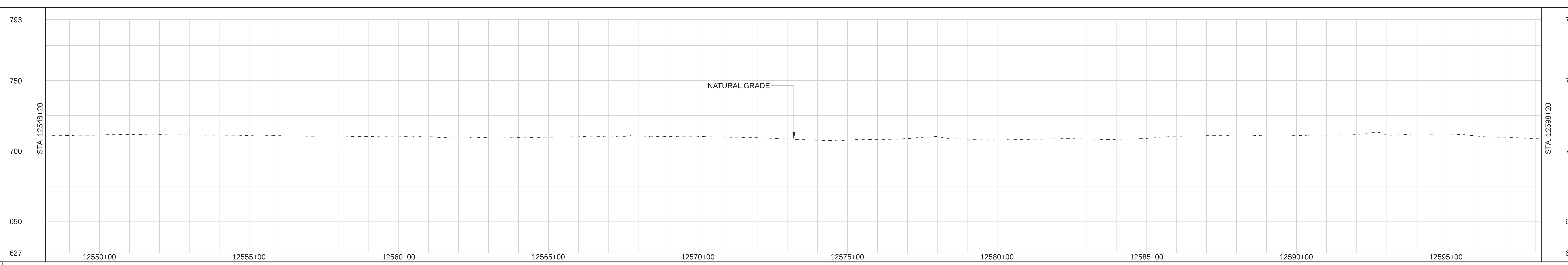
PROFILE

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

DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV	DSN	CK	DESCRIPTION
3			ISSUED FOR FERC (07/2016)
2			ISSUED FOR P3 (03/2016)
1			ISSUED FOR FERC (02/2016)
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

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

LOC. WASHTENAW COUNTY, MICHIGAN

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	WATE-A-1260	REV. 3

IG #

RIGHT-OF-WAY

TRACT NUMBERS

Station	Tract	Rods	Feet
12898+20 – 12906+13	MI-WA-047.0000	48.1 RODS	793 FT.
12906+13 – 12918+58	MI-WA-048.0000	75.5 RODS	1245 FT.
12918+58 – 12933+98	MI-WA-049.0000	93.3 RODS	1540 FT.
12933+98	MI-WA-050.0000-RD		
12933+98 – 12944+18	MI-WA-051.0000	61.8 RODS	1020 FT.
12944+18 – 12947+54	MI-WA-052.0000	20.4 RODS	336 FT.
12947+54	MI-WA-053.0000-RD		
12947+54 – 12948+20	MI-WA-054.0000	4.0 RODS	66 FT.

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 12902+31 PI ~ 8°40'15" LT

STA. 12917+95 PI ~ 22°30'0" RT

STA. 12920+76 TOP BANK
STA. 12921+10 TOP BANK

STA. 12923+30 PI ~ 22°30'0" LT

STA. 12924+53 PI ~ 2°6'22" RT

STA. 12930+71 POWERLINE VERT. CLEARANCE 30 FT.

STA. 12933+52 TOP BANK
STA. 12933+68 DITCH, DEPTH 0.3 FT. CENTERLINE
STA. 12933+79 TOP BANK
STA. 12933+84 ROAD EDGE
STA. 12933+98 PAVED, WHITTAKER RD CENTERLINE
STA. 12934+11 ROAD EDGE
STA. 12934+16 TOP BANK
STA. 12934+26 POWERLINE VERT. CLEARANCE 13 FT.
STA. 12934+26 TOE BANK
STA. 12934+33 TOP BANK
STA. 12934+73 FIRE HYDRANT, 67 FT. LEFT
STA. 12936+46 PI ~ 45°11'48" LT

STA. 12947+35 TOE BANK
STA. 12947+42 TOP BANK
STA. 12947+43 ROAD EDGE
STA. 12947+55 PAVED, WILLIS RD CENTERLINE
STA. 12947+67 ROAD EDGE
STA. 12947+70 TOP BANK
STA. 12947+76 TOE BANK
STA. 12947+82 POWERLINE VERT. CLEARANCE 17 FT.
STA. 12947+86 UNDERGROUND WATER

CLASS LOCATION

CLASS 2 | CLASS 1 | CLASS 2 | CLASS 3

PIPE MATERIAL

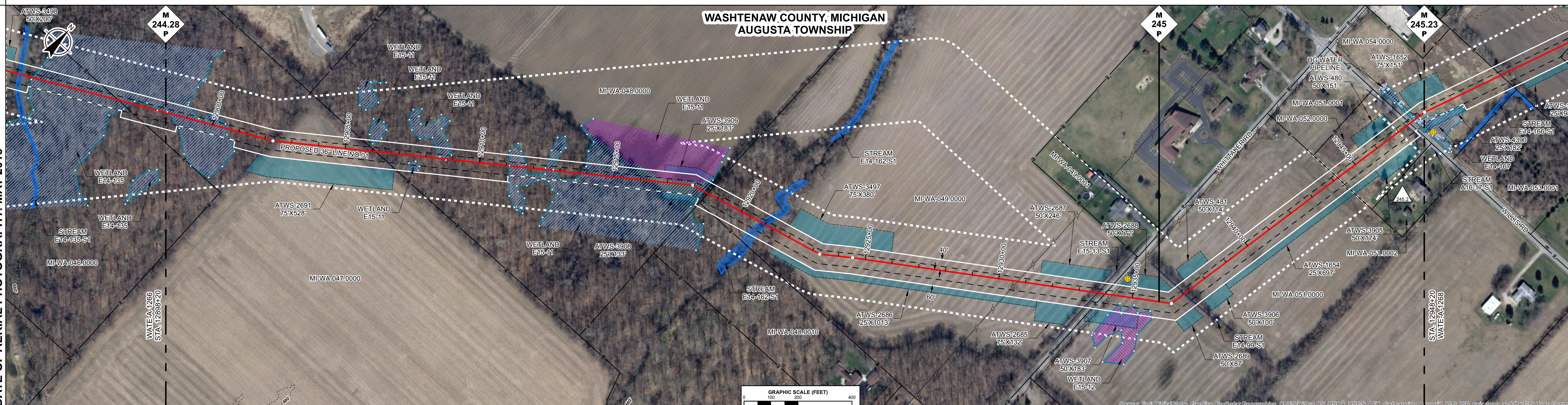
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
245.2	TWS EXTENDED TO MEET ROAD. RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.

ALIGNMENT LEGEND

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

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 12900+71 WETLAND E14-135 EXIT

STA. 12905+94 WETLAND E15-11 ENTER
STA. 12906+17 WETLAND E15-11 EXIT

STA. 12907+40 WETLAND E15-11 ENTER
STA. 12907+81 WETLAND E15-11 EXIT
STA. 12908+34 WETLAND E15-11 ENTER
STA. 12908+94 WETLAND E15-11 EXIT

STA. 12911+09 WETLAND E15-11 ENTER

STA. 12918+49 WETLAND E15-11 EXIT

STA. 12920+53 STREAM WEST BRANCH PAINT CREEK E14-162-S1 ENTER
STA. 12921+26 STREAM WEST BRANCH PAINT CREEK E14-162-S1 EXIT

STA. 12933+70 CENTERLINE OF STREAM E15-13-S1 TRIBUTARY TO WEST BRANCH PAINT CREEK
STA. 12933+99 WETLAND E15-12 ENTER

STA. 12935+85 WETLAND E15-12 EXIT

STA. 12937+07 CENTERLINE OF STREAM E14-99-S1 TRIBUTARY TO BIRD DRAIN

STA. 12947+39 CENTERLINE OF STREAM A16-17-S1 TRIBUTARY TO BIRD DRAIN
STA. 12947+64 WETLAND E14-167 ENTER

E & S TYPICALS

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

PROFILE

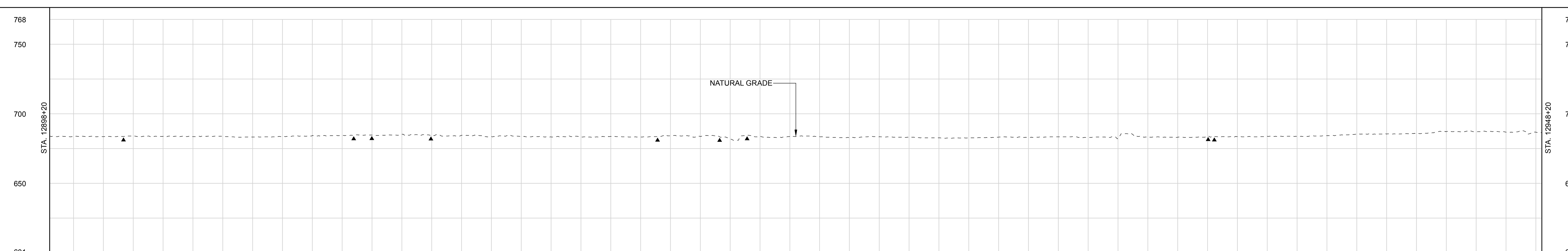
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

SLOPE BREAKERS ○
TRENCH PLUG ▲

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

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

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



LAND USE CLASSIFICATION

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

SOILS

LAND USE: F/W | AG | F/W | OW | F/W | AG | OL | I/C | AG | OL | AG | OL | I/C | OL

% SLOPE: < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5%

DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV	DSN	CK	DESCRIPTION
3			ISSUED FOR FERC (07/2016)
2			ISSUED FOR P3 (03/2016)
1			ISSUED FOR FERC (02/2016)
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

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

LOC. WASHTENAW COUNTY, MICHIGAN

NEXUS GAS TRANSMISSION

YEAR: 2017 | W.B.S. | Scale 1" = 200' | WATE-A-1267 | REV. 3

IG #

P:\295_UPSTREAM_PIPELINE\295K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 267 of 278.pdf - PLOT TIME: 2016-06-20 15:58:17

RIGHT-OF-WAY TRACT NUMBERS	12948+20	MI-WA-054.0000 19.2 RODS 316 FT.	12951+36	MI-WA-055.0000 19.2 RODS 316 FT.	12954+52	MI-WA-056.0000 17.6 RODS 291 FT.	12957+43	MI-WA-057.0000 26.2 RODS 432 FT.	12961+75	MI-WA-058.0000 25.0 RODS 412 FT.	12965+87	MI-WA-059.0000 17.6 RODS 291 FT.	12968+78	MI-WA-060.0000 42.8 RODS 707 FT.	12975+85	MI-WA-062.0000 2.1 RODS 34 FT.	12976+19	MI-WA-063.0000 133.4 RODS 2201 FT.	12998+20

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 12948+20 FIRE HYDRANT, 80 FT. RIGHT
STA. 12949+22 PI ~ 11°10'26" RT
STA. 12967+48 PI ~ 17°40'54" LT
STA. 12974+60 PI ~ 44°59'59" RT
STA. 12977+06 PI ~ 8°59'57" RT

CLASS LOCATION

CLASS 3 | CLASS 2 | CLASS 1

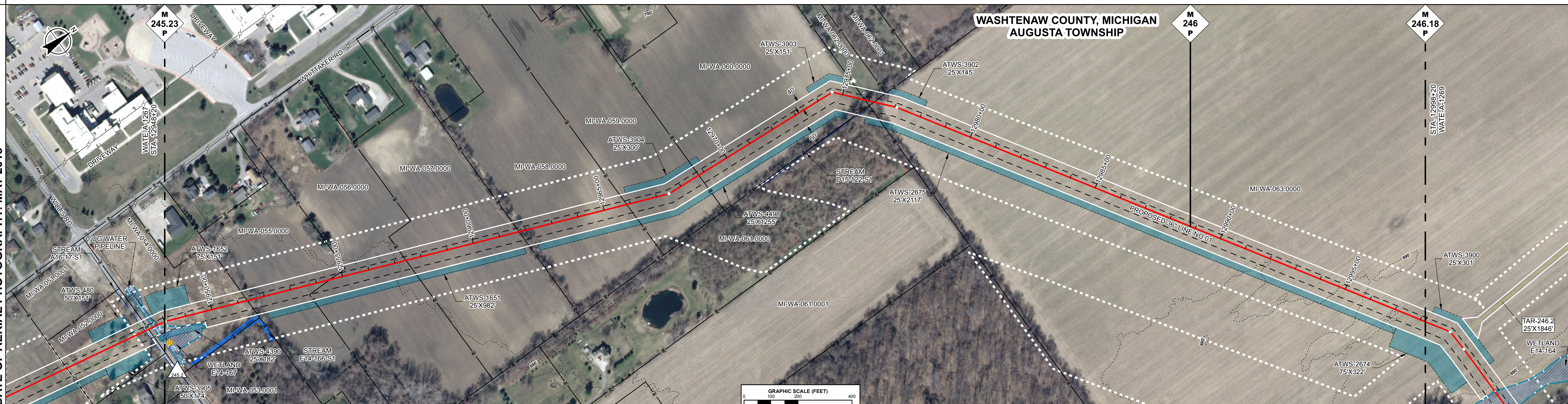
PIPE MATERIAL

PROJECT MODIFICATION TABLE	
PROJ. MOD. NUMBER	DESCRIPTION
245.2	TWS EXTENDED TO MEET ROAD. RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.

ALIGNMENT LEGEND

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

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 12949+60 WETLAND E14-167 EXIT

E & S TYPICALS

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

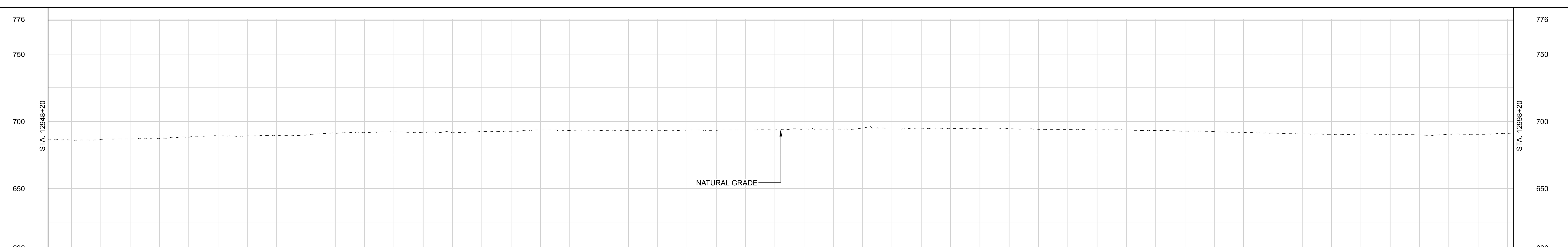
PROFILE

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

DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

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

ITEM	DESCRIPTION	QTY
MATERIALS		

GENERAL NOTES:

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

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

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

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

LOC. WASHTENAW COUNTY, MICHIGAN

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	WATE-A-1268	REV. 3

IG #

P:\295_UPSTREAM_PIPELINE\295K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 268 of 278.pdf - PLOT TIME: 2016-06-20 15:14:04

RIGHT-OF-WAY

TRACT NUMBERS

Station	Tract	Rods	Feet
12998+20	MI-WA-063.0000	35.2 RODS	581 FT.
13004+01	MI-WA-064.0000	92.1 RODS	1519 FT.
13019+20	MI-WA-066.0000	175.8 RODS	2900 FT.
13048+20			

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 12999+20 PI – 29°59'59" RT
STA. 13000+03 PI – 1°41'49" RT
STA. 13018+92 POWERLINE VERT CLEARANCE 23 FT
STA. 13018+98 TOP BANK
STA. 13019+02 DITCH DEPTH 1.5 FT CENTERLINE
STA. 13019+06 TOP BANK
STA. 13019+08 ROAD EDGE
STA. 13019+19 GRAVEL LITTLE HILL RD CENTERLINE
STA. 13019+29 ROAD EDGE
STA. 13019+34 TOP BANK
STA. 13019+40 DITCH DEPTH 1.0 FT CENTERLINE
STA. 13019+46 TOP BANK
STA. 13034+52 PI – 44°59'59" LT
STA. 13037+11 PI – 8°24'7" RT

CLASS LOCATION

CLASS 1

PIPE MATERIAL

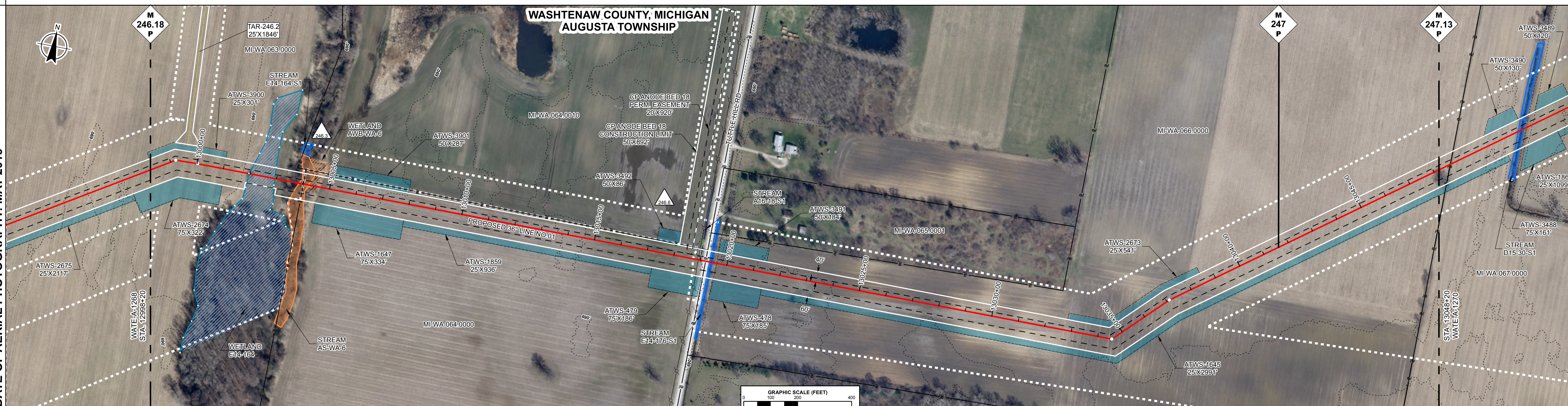
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
246.3	ATWS, RESOURCES, AND APPROXIMATED RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.
246.6	ATWS AND RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.

ALIGNMENT LEGEND

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

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 13001+95 WETLAND E14-164 ENTER
STA. 13002+97 WETLAND E14-164 EXIT
STA. 13003+81 STREAM PAINT CREEK AS-WA-6 ENTER
STA. 13004+37 STREAM PAINT CREEK AS-WA-6 EXIT
STA. 13019+35 STREAM TRIBUTARY TO PAINT CREEK E14-176-S1 ENTER
STA. 13019+45 STREAM TRIBUTARY TO PAINT CREEK E14-176-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)
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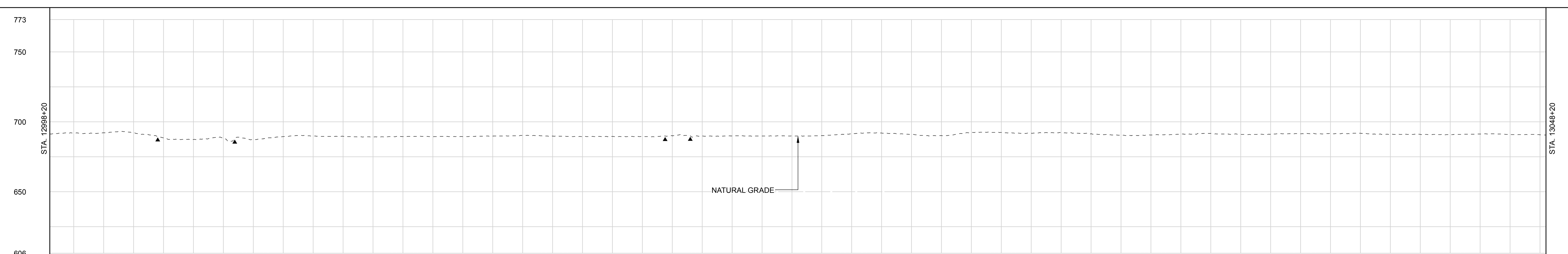
> 30%	100 FT	15-30%	200 FT
		> 30%	100 FT

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 | F/W | OW | F/W | AG | I/C | OL | OW | AG

% SLOPE: < 5% | 5-15% | < 5% | 5-15% | < 5%

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

REVISIONS

DWG. NO.	DESCRIPTION

REFERENCE DRAWINGS

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

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

LOC. WASHTENAW COUNTY, MICHIGAN

YEAR: 2017 | W.B.S. | Scale 1" = 200' | WATE-A-1269 | REV. 3

NEXUS GAS TRANSMISSION

IG #

P:\295_UPSTREAM_PIPELINE\295K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 269 of 278.pdf - PLOT TIME: 2016-06-21 09:26:20

RIGHT-OF-WAY

TRACT NUMBERS

Tract	Rods	Length	Stations
MI-WA-066.0000	2.8 RODS	47 FT.	13048+20 – 13048+67
MI-WA-067.0000	97.2 RODS	1604 FT.	– 13064+71
MI-WA-068.0000-RD			13064+71
MI-WA-069.0000	78.5 RODS	1295 FT.	– 13077+66
MI-WA-070.0000	13.6 RODS	225 FT.	13077+66 – 13079+91
MI-WA-071.0000	12.2 RODS	201 FT.	13079+91 – 13081+92
MI-WA-072.0000	25.1 RODS	414 FT.	– 13086+06
MI-WA-074.0000	11.8 RODS	194 FT.	13086+06 – 13088+00
MI-WA-075.0000	32.4 RODS	535 FT.	– 13093+35
MI-WA-075.0100-RD			13093+35
MI-WA-077.0000	15.4 RODS	254 FT.	– 13095+89
MI-WA-078.0000	11.0 RODS	182 FT.	13095+89 – 13097+71
MI-WA-079.0000	1.4 RODS	23 FT.	13097+71 – 13097+94

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 13051+42 TOP BANK
STA. 13051+58 DITCH, DEPTH 1.0 FT. CENTERLINE
STA. 13051+73 TOP BANK
STA. 13062+51 PI ~ 29°52'14" LT
STA. 13063+62 MLV16
STA. 13064+49 TOP BANK
STA. 13064+53 DITCH, DEPTH 0 FT. CENTERLINE
STA. 13064+58 WATER WELL, 200 FT. RIGHT
STA. 13064+59 TOP BANK
STA. 13064+66 ROAD EDGE
STA. 13064+76 MUNICIPALITY LINE
STA. 13064+77 DIRT, BEMIS RD CENTERLINE
STA. 13064+88 ROAD EDGE
STA. 13067+12 PI ~ 20°55'22" LT
STA. 13074+40 PI ~ 44°59'51" RT
STA. 13079+05 PI ~ 5°16'19" RT
STA. 13086+06 FENCE
STA. 13086+15 TOP BANK
STA. 13086+25 DITCH, DEPTH 0 FT. CENTERLINE
STA. 13086+37 TOP BANK
STA. 13089+49 PI ~ 30°0'0" RT
STA. 13090+72 PI ~ 7°3'54" RT
STA. 13091+04 POWERLINE VERT. CLEARANCE 26 FT.
STA. 13093+12 TOP BANK
STA. 13093+19 DITCH, DEPTH 0 FT. CENTERLINE
STA. 13093+27 TOP BANK
STA. 13093+28 ROAD EDGE
STA. 13093+41 PAVED, BUNTON RD CENTERLINE
STA. 13093+53 ROAD EDGE
STA. 13093+55 TOP BANK
STA. 13093+57 UNDERGROUND WATER
STA. 13093+59 DITCH, DEPTH 0 FT. CENTERLINE
STA. 13093+59 FIRE HYDRANT, 799 FT. RIGHT
STA. 13093+62 FIRE HYDRANT, 295 FT. RIGHT
STA. 13093+62 TOP BANK
STA. 13093+66 POWERLINE (SCALED)
STA. 13093+68 FENCE
STA. 13093+91 UNDERGROUND SAN SEWER
STA. 13093+99 UNDERGROUND SAN SEWER
STA. 13095+12 PI ~ 59°59'59" LT

CLASS LOCATION

CLASS 1 | CLASS 2 | CLASS 3

PIPE MATERIAL

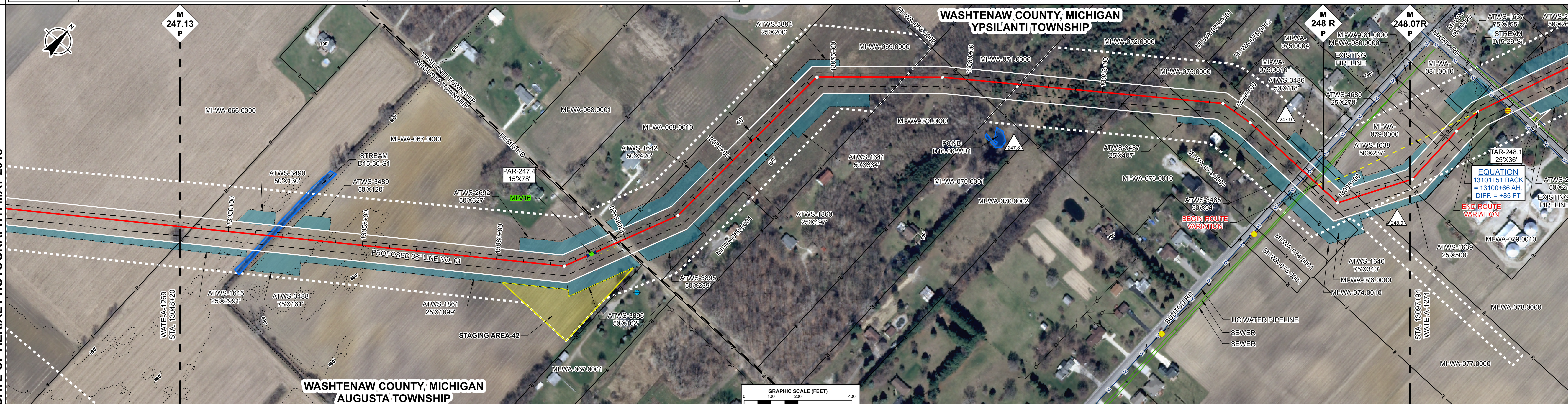
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
247.8	RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.
247.9	ATWS ADJUSTED TO REDUCE RESIDENTIAL IMPACTS.
248.0	CENTERLINE REROUTED TO AVOID EXISTING UTILITIES. TWS/ATWS ADJUSTED ACCORDINGLY. (737 FT)

ALIGNMENT LEGEND

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

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 13051+02 STREAM TRIBUTARY TO BRADSHAW DRAIN D15-30-S1 ENTER
STA. 13051+09 STREAM TRIBUTARY TO BRADSHAW DRAIN D15-30-S1 EXIT

E & S TYPICALS

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

PROFILE

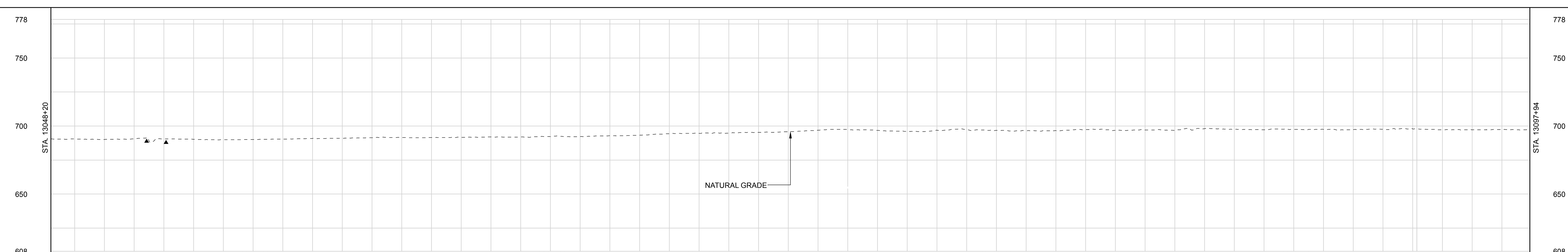
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

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 | OW | AG | I/C | AG | F/W | OL | F/W | R | I/C | OL | AG

% SLOPE: <5% | 5-15% | <5% | 5-15% | <5%

REV	DSN	CK	DESCRIPTION
3A			ISSUED FOR FERC (08/2016)
3			ISSUED FOR FERC (07/2016)
2			ISSUED FOR P3 (03/2016)
1A			ISSUED FOR FERC (02/2016)
1			ISSUED FOR FERC (02/2016)
0B			ISSUED FOR FERC FILING (11/2015)
0A			ISSUED FOR FERC FILING (11/2015)
0			ISSUED FOR FERC FILING (11/2015)

DWG. NO. | DESCRIPTION — 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:	BID		CONSTRUCTION	
NAME	SIGNATURE	DATE	SIGNATURE	DATE

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

LOC. WASHTENAW COUNTY, MICHIGAN

NEXUS GAS TRANSMISSION

YEAR: 2017 | W.B.S. | Scale 1" = 200' | WATE-A-1270 | REV. 3A

P:\295_UPSTREAM_PIPELINE\295K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 270 of 278.pdf - PLOT TIME: 2016-08-09 12:48:20

IG #

RIGHT-OF-WAY

TRACT NUMBERS

Tract	Length (rods)	Length (ft)
MI-WA-079.0000	28.8 RODS	475 FT.
MI-WA-083.0000	42.9 RODS	708 FT.
MI-WA-085.0000	13.6 RODS	225 FT.
MI-WA-086.0000	25.1 RODS	414 FT.
MI-WA-087.0000	12.3 RODS	203 FT.
MI-WA-088.0000	11.1 RODS	183 FT.
MI-WA-089.0000	11.0 RODS	182 FT.
MI-WA-090.0000	9.6 RODS	158 FT.
MI-WA-091.0000	6.8 RODS	112 FT.
MI-WA-092.0000	43.8 RODS	723 FT.
MI-WA-093.0000	2.4 RODS	39 FT.
MI-WA-094.0000	55.8 RODS	920 FT.
MI-WA-095.0000	11.9 RODS	196 FT.
MI-WA-096.0000	7.5 RODS	124 FT.
MI-WA-097.0000	19.3 RODS	319 FT.

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

CLASS LOCATION

CLASS 3

PIPE MATERIAL

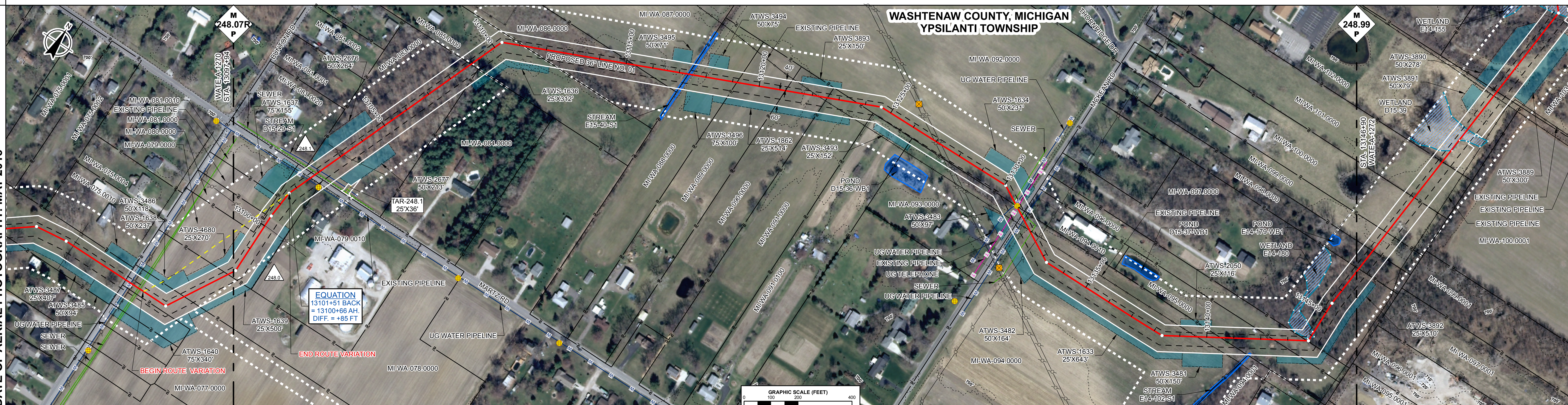
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
248.0	CENTERLINE REROUTED TO AVOID EXISTING UTILITIES. TWS/ATWS ADJUSTED ACCORDINGLY. (737 FT)
248.1	ATWS ADJUSTED BASED ON UPDATED CIVIL FIELD SURVEY.

ALIGNMENT LEGEND

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

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

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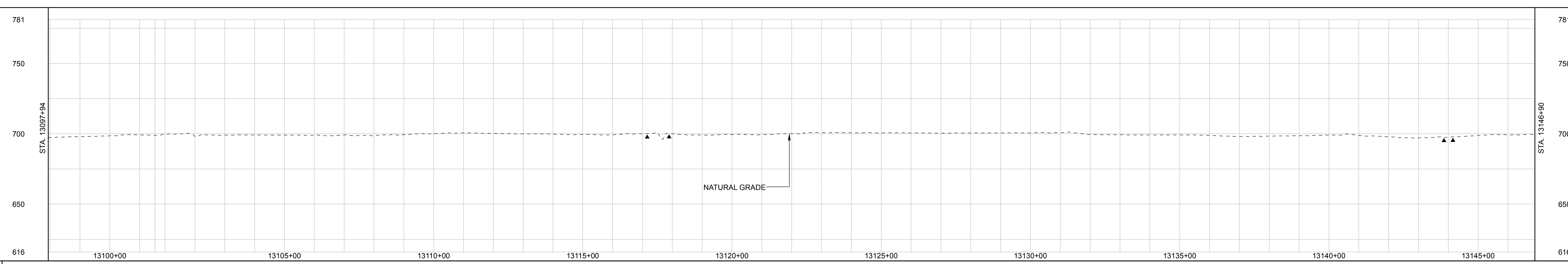
IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



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 | I/C | OL | F/W | OL | AG | OL | OW | OL | AG | OL | R | I/C | OL | AG | OL | F/W

% SLOPE: <5% | 5-15% | <5% | 15-30% | <5% | 5-15% | <5%

REV	DSN	CK	DESCRIPTION
3A			ISSUED FOR FERC (08/2016)
3			ISSUED FOR FERC (07/2016)
2			ISSUED FOR P3 (03/2016)
1			ISSUED FOR FERC (02/2016)
0B			ISSUED FOR FERC FILING (11/2015)
0A			ISSUED FOR FERC FILING (11/2015)
0			ISSUED FOR FERC FILING (11/2015)

DWG. NO. | DESCRIPTION — 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:	BID		CONSTRUCTION	
NAME	SIGNATURE	DATE	SIGNATURE	DATE

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

LOC. WASHTENAW COUNTY, MICHIGAN

NEXUS GAS TRANSMISSION

YEAR: 2017 | W.B.S. | Scale 1" = 200' | WATE-A-1271 | REV. 3A

RIGHT-OF-WAY

TRACT NUMBERS

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

CLASS LOCATION

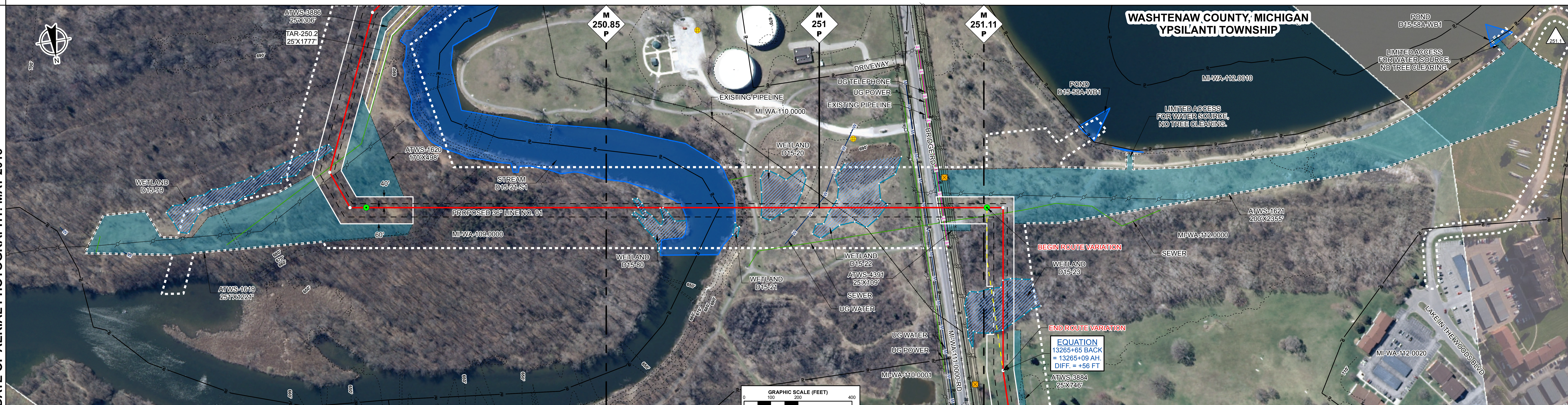
PIPE MATERIAL

PROJECT MODIFICATION TABLE	
PROJ. MOD. NUMBER	DESCRIPTION
251.1	TAR 251.1 REMOVED DUE TO LANDOWNER REQUEST.

ALIGNMENT LEGEND

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

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

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

P:\295_UPSTREAM_PIPELINE\295K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 273-A of 278.pdf - PLOT TIME: 2016-08-11 12:47:36

DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

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

ITEM	DESCRIPTION	QTY
MATERIALS		

GENERAL NOTES:

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

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

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
NAME	SIGNATURE	DATE	SIGNATURE	DATE

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

LOC. WASHTENAW COUNTY, MICHIGAN

NEXUS GAS TRANSMISSION

YEAR: 2017	W.B.S.	Scale 1" = 200'	WATE-A-1273-A	REV. 3

IG #

RIGHT-OF-WAY

TRACT NUMBERS

Station	Tract	Rods	Feet
13246+90 – 13249+10	MI-WA-109.0000	13.3 RODS	220 FT.
13249+10 – 13256+77	MI-WA-110.0000	46.5 RODS	767 FT.
13256+77 – 13257+43	MI-WA-111.0000-RD	4.0 RODS	66 FT.
13257+43 – 13274+67	MI-WA-112.0000	107.9 RODS	1780 FT.
13274+67 – 13274+75	MI-WA-111.0000-RD	0.5 RODS	8 FT.
13274+75	MI-WA-113.0000-RD		
13274+75 – 13287+09	MI-WA-114.0000	74.8 RODS	1234 FT.
13287+09 – 13288+29	MI-WA-115.0000-RD	7.3 RODS	120 FT.
13288+29 – 13292+17	MI-WA-116.0000-RD	23.5 RODS	388 FT.
13292+17 – 13296+90	MI-WA-117.0000	28.7 RODS	473 FT.

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 13247+72 TOP BANK
STA. 13250+26 TOP BANK
STA. 13250+41 TOE BANK
STA. 13250+81 TOE BANK
STA. 13251+48 TOP BANK
STA. 13252+28 TOP BANK
STA. 13252+65 UNDERGROUND WATER
STA. 13253+51 GAS PL
STA. 13254+06 FIRE HYDRANT, 255 FT. LEFT
STA. 13256+38 FENCE
STA. 13256+45 POWERLINE VERT. CLEARANCE 14 FT.
STA. 13256+53 UNDERGROUND POWER (SCALED)
STA. 13256+66 PIPELINE (SCALED)
STA. 13256+71 UNDERGROUND WATER
STA. 13256+99 ROAD EDGE
STA. 13257+11 PAVED, BRIDGE RD CENTERLINE
STA. 13257+21 ROAD EDGE
STA. 13257+24 GAS PL
STA. 13257+31 UNDERGROUND POWER
STA. 13257+36 UNDERGROUND TELEPHONE
STA. 13257+43 TOP BANK
STA. 13257+44 TOWER, 111 FT. LEFT
STA. 13257+46 TOE BANK
STA. 13257+53 POWERLINE VERT. CLEARANCE 51 FT.
STA. 13257+60 POWERLINE VERT. CLEARANCE 100 FT.
STA. 13257+68 POWERLINE VERT. CLEARANCE 51 FT.
STA. 13258+14 FENCE
STA. 13259+01 HDD EXIT
STA. 13259+23 ROAD EDGE
STA. 13259+41 GRAVEL, LINK CENTERLINE
STA. 13259+61 PI ~ 8°19'59" RT
STA. 13259+62 ROAD EDGE
STA. 13259+82 UNDERGROUND SAN SEWER
STA. 13264+76 TOE BANK
STA. 13265+09 PI ~ 8°15'42" LT
STA. 13265+16 TOP BANK
STA. 13265+34 TOE BANK
STA. 13265+46 TOWER, 110 FT. RIGHT
STA. 13267+85 FIRE HYDRANT, 228 FT. RIGHT
STA. 13272+49 PIPELINE (SCALED)
STA. 13272+93 PI ~ 45°0'0" RT
STA. 13273+12 TOE BANK
STA. 13273+35 TOP BANK
STA. 13273+76 TOP BANK
STA. 13273+81 TOWER, 63 FT. RIGHT
STA. 13273+85 TOE BANK
STA. 13273+96 FENCE
STA. 13274+32 SEWER
STA. 13274+39 ROAD EDGE
STA. 13274+40 POWERLINE VERT. CLEARANCE 40 FT.
STA. 13274+54 POWERLINE (SCALED)
STA. 13274+61 POWERLINE VERT. CLEARANCE 40 FT.
STA. 13274+72 PAVED, S GROVE ST CENTERLINE
STA. 13275+00 GAS PL
STA. 13275+03 ROAD EDGE
STA. 13275+18 UNDERGROUND TELEPHONE
STA. 13275+80 UNDERGROUND WATER
STA. 13275+95 PI ~ 45°0'0" LT
STA. 13277+05 FIRE HYDRANT, 61 FT. LEFT
STA. 13279+15 TOWER, 80 FT. LEFT
STA. 13280+94 HDD ENTRY
STA. 13283+65 TOWER, 81 FT. LEFT
STA. 13287+09 POWERLINE VERT. CLEARANCE 12 FT.
STA. 13287+19 TOE BANK
STA. 13287+30 TOP BANK
STA. 13287+37 ROAD EDGE
STA. 13287+48 PAVED, LAKEVIEW AVE CENTERLINE
STA. 13287+59 ROAD EDGE
STA. 13287+64 TOP BANK
STA. 13287+77 DITCH, DEPTH 0 FT. CENTERLINE
STA. 13287+94 TOP BANK
STA. 13288+09 TOWER, 82 FT. LEFT
STA. 13288+23 TOE BANK
STA. 13288+39 TOP BANK
STA. 13288+55 ROAD EDGE
STA. 13288+64 WILLOW RUN FWY N CENTERLINE (SCALED)
STA. 13288+79 ROAD EDGE
STA. 13288+91 TOE BANK
STA. 13289+09 TOP BANK
STA. 13289+23 ROAD EDGE
STA. 13289+37 I 94 E CENTERLINE (SCALED)
STA. 13289+61 ROAD EDGE
STA. 13289+72 TOP BANK
STA. 13289+89 TOE BANK
STA. 13290+09 TOP BANK
STA. 13290+22 ROAD EDGE
STA. 13290+43 I 94 W CENTERLINE (SCALED)
STA. 13290+60 ROAD EDGE
STA. 13290+74 TOP BANK
STA. 13290+86 TOE BANK
STA. 13290+96 TOP BANK
STA. 13291+03 ROAD EDGE
STA. 13291+18 WILLOW RUN FWY N CENTERLINE (SCALED)
STA. 13291+29 ROAD EDGE
STA. 13291+43 TOP BANK
STA. 13291+56 DITCH, DEPTH 0 FT. CENTERLINE
STA. 13291+65 TOP BANK
STA. 13291+77 FENCE
STA. 13292+66 TOWER, 80 FT. LEFT
STA. 13294+53 HDD EXIT
STA. 13296+70 TOP BANK
STA. 13296+81 DITCH, DEPTH 0 FT. CENTERLINE

CLASS LOCATION

CLASS 3

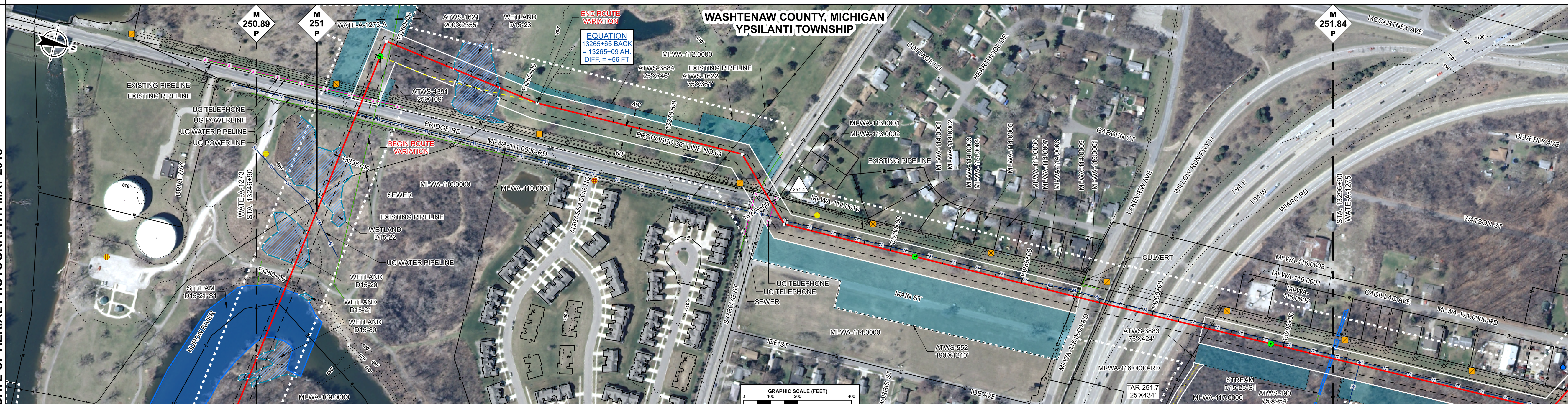
PIPE MATERIAL

PROJECT MODIFICATION TABLE	
PROJ. MOD. NUMBER	DESCRIPTION
251.4	TWS ADJUSTED BASED ON UPDATED CIVIL FIELD SURVEY.

ALIGNMENT LEGEND

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

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 13246+91 WETLAND D15-80 ENTER
STA. 13247+33 WETLAND D15-80 EXIT
STA. 13247+63 STREAM HURON RIVER D15-21-S1 ENTER
STA. 13249+69 STREAM HURON RIVER D15-21-S1 EXIT
STA. 13250+65 WETLAND D15-20 ENTER
STA. 13251+98 WETLAND D15-20 EXIT
STA. 13253+07 WETLAND D15-22 ENTER
STA. 13255+34 WETLAND D15-22 EXIT
STA. 13262+24 WETLAND D15-23 ENTER
STA. 13264+24 WETLAND D15-23 EXIT
STA. 13296+76 STREAM TRIBUTARY TO WILLOW RUN D15-25-S1 ENTER
STA. 13296+82 STREAM TRIBUTARY TO WILLOW RUN D15-25-S1 ENTER

E & S TYPICALS

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

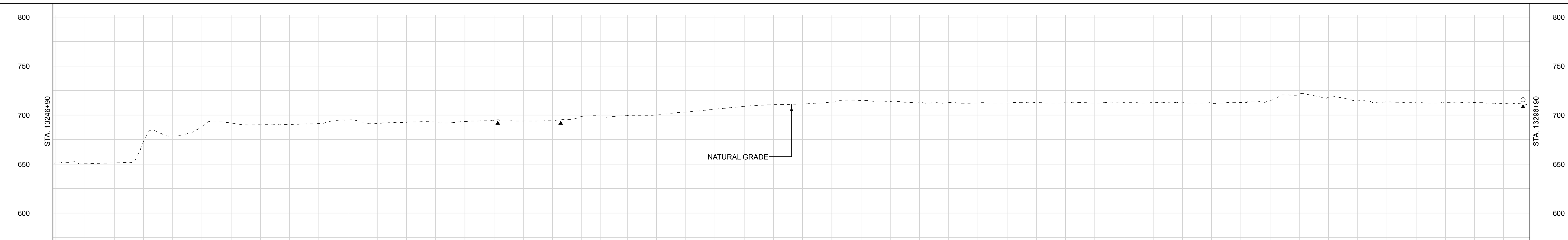
PROFILE

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

SLOPE BREAKERS ○
TRENCH PLUG ▲

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

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



LAND USE CLASSIFICATION

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

SOILS

LAND USE: F/W | OW | F/W | OL | I/C | OL | F/W | OL | I/C | OL | I/C | OL | I/C | OL | F/W | OW | OL

% SLOPE: < 5% | 5-15% | < 5% | 45-60% | 30-45% | 5-15% | < 5% | 15-30% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15%

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

REVISIONS

DWG. NO.	DESCRIPTION
WATE-A-1273-A	ALIGNMENT SHEET

REFERENCE DRAWINGS

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

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

LOC. WASHTENAW COUNTY, MICHIGAN

NEXUS GAS TRANSMISSION

YEAR: 2017 | W.B.S. | Scale 1" = 200' | WATE-A-1274 | REV. 3

IG #

P:\295_UPSTREAM_PIPELINE\295K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 274 of 278.pdf - PLOT TIME: 2016-06-21 13:28:43

RIGHT-OF-WAY

TRACT NUMBERS

Station	Tract	Rods	Feet
13346+90 – 13352+72	MI-WA-135.0000	35.3 RODS	582 FT.
13352+72 – 13353+30	MI-WA-136.0000-RD	3.5 RODS	58 FT.
13353+30 – 13354+26	MI-WA-137.0000	5.8 RODS	96 FT.
13354+26 – 13354+82	MI-WA-138.0000-RD	3.4 RODS	56 FT.
13354+82 – 13369+12	MI-WA-139.0000	86.7 RODS	1430 FT.
13369+12 – 13369+87	MI-WA-139.0100-RD	4.5 RODS	75 FT.
13369+87 – 13372+52	MI-WA-139.0200	16.1 RODS	265 FT.
13372+52 – 13374+46	MI-WA-139.0300-RD	11.8 RODS	194 FT.
13374+46 – 13379+19	MI-WA-140.0000	28.7 RODS	473 FT.
13379+19 – 13380+87	MI-WA-141.0000-WB	10.2 RODS	168 FT.
13380+87 – 13388+88	MI-WA-141.0100	48.5 RODS	801 FT.
13388+88 – 13390+47	MI-WA-141.0000-WB	9.6 RODS	159 FT.

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 13347+60 GAS PL
STA. 13352+30 TOE BANK
STA. 13352+87 ROAD EDGE
STA. 13353+02 RAMP CENTERLINE (SCALED)
STA. 13353+21 ROAD EDGE
STA. 13353+66 TOE BANK
STA. 13354+04 TOE BANK
STA. 13354+40 ROAD EDGE
STA. 13354+56 CONNECTING ROAD CENTERLINE (SCALED)
STA. 13354+67 ROAD EDGE
STA. 13355+04 TOE BANK
STA. 13362+60 PI ~ 12°50'3" LT
STA. 13369+25 TOP BANK
STA. 13369+53 TOE BANK
STA. 13369+60 ROAD EDGE
STA. 13369+66 AIRPORT DR CENTERLINE (SCALED)
STA. 13369+80 ROAD EDGE
STA. 13370+27 TOP BANK
STA. 13370+30 TOP BANK
STA. 13370+77 TOP BANK
STA. 13371+63 PI ~ 60°13'49" RT
STA. 13371+80 POWERLINE VERT. CLEARANCE 40 FT.
STA. 13372+24 TOE BANK
STA. 13372+62 TOP BANK
STA. 13372+71 ROAD EDGE
STA. 13372+96 PAVED, WIARD RD CENTERLINE
STA. 13373+23 ROAD EDGE
STA. 13373+47 UNDERGROUND WATER
STA. 13373+72 TOP BANK
STA. 13374+00 TOE BANK
STA. 13374+19 FENCE
STA. 13374+25 PI ~ 30°13'49" LT
STA. 13375+84 PI ~ 30°6'36" LT
STA. 13376+94 PI ~ 1°12'31" LT
STA. 13379+10 TOP BANK
STA. 13379+53 TOE BANK
STA. 13380+04 DITCH, DEPTH 1.0 FT. CENTERLINE
STA. 13380+62 TOE BANK
STA. 13381+03 TOP BANK
STA. 13382+40 FIRE HYDRANT, 165 FT. LEFT
STA. 13382+40 PI ~ 22°30'10" RT
STA. 13383+30 PI ~ 60°0'0" RT
STA. 13384+22 DRIVEWAY EDGE
STA. 13384+52 PI ~ 1°55'54" LT
STA. 13387+78 DRIVEWAY EDGE
STA. 13387+95 DRIVEWAY CENTERLINE (SCALED)
STA. 13388+13 DRIVEWAY EDGE
STA. 13388+24 PI ~ 15°6'34" RT
STA. 13388+73 TOP BANK
STA. 13389+19 TOE BANK
STA. 13389+25 PI ~ 11°29'58" LT

CLASS LOCATION

CLASS 3 | CLASS 2 | CLASS 1

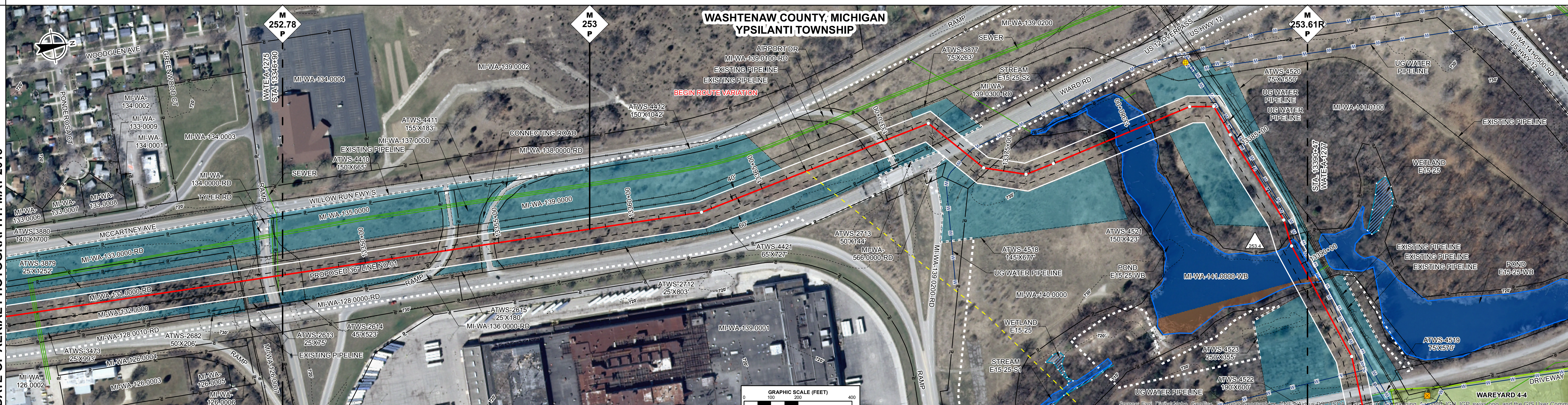
PIPE MATERIAL

PROJECT MODIFICATION TABLE	
PROJ. MOD. NUMBER	DESCRIPTION
253.4	RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.

ALIGNMENT LEGEND

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

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 13379+34 POND WILLOW RUN E15-25-WB ENTER
STA. 13380+76 POND WILLOW RUN E15-25-WB EXIT
STA. 13389+40 POND WILLOW RUN E15-25-WB ENTER

E & S TYPICALS

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

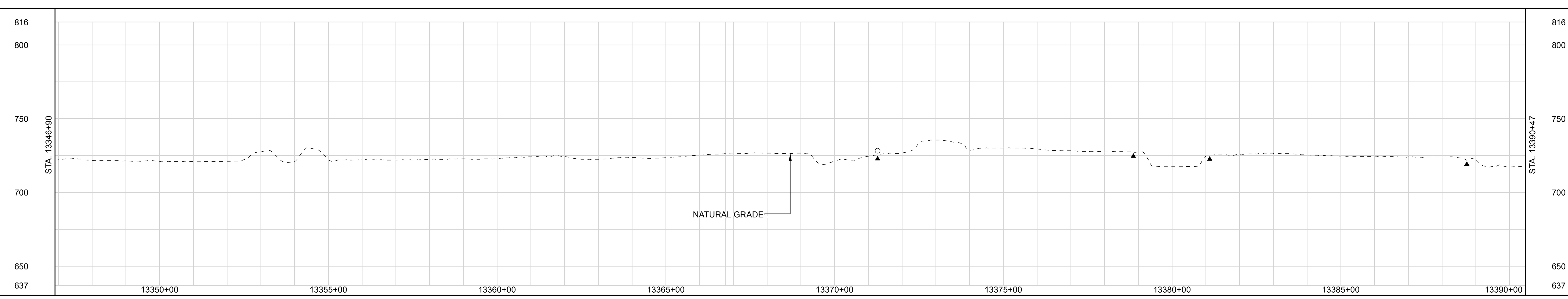
PROFILE

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

SLOPE BREAKERS ○
TRENCH PLUG ▲

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

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



LAND USE CLASSIFICATION

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

SOILS

LAND USE: OL | I/C | OL | I/C | OL | I/C | OL | I/C | OL | F/W | OW | F/W | OL | F/W | OW

% SLOPE: 5-15% | < 5% | 5-15% | 15-30% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | 5-15% | < 5% | 15-30% | < 5% | 5-15% | < 5% | 5-15% | < 5%

DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

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

REVISIONS

ITEM	DESCRIPTION	QTY

MATERIALS

GENERAL NOTES:

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

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

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
NAME	SIGNATURE	DATE	SIGNATURE	DATE

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

LOC. WASHTENAW COUNTY, MICHIGAN

NEXUS GAS TRANSMISSION

YEAR: 2017 | W.B.S. | Scale 1" = 200' | WATE-A-1276 | REV. 3

IG #

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RIGHT-OF-WAY

TRACT NUMBERS

Tract	Start STA	Rods	Feet	End STA
MI-WA-141.0000-WB	13390+47	2.7 RODS	44 FT.	13390+91
MI-WA-140.0000		150.6 RODS	2485 FT.	
MI-WA-141.0300-RD	13415+76	12.4 RODS	204 FT.	13417+80
MI-WA-141.0400-RD	13417+80	7.5 RODS	124 FT.	13419+04
MI-WA-141.0500-RD	13419+04	6.4 RODS	106 FT.	13420+10
MI-WA-141.0600-RD	13420+10	12.7 RODS	210 FT.	13422+20
MI-WA-141.0700-RD	13422+20	0.4 RODS	7 FT.	13422+27

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 13390+58 TOE BANK
STA. 13391+09 TOP BANK
STA. 13393+91 PI ~ 16°7'35" RT
STA. 13394+50 UNDERGROUND WATER
STA. 13394+67 FENCE
STA. 13394+71 TOP BANK
STA. 13394+87 TOE BANK
STA. 13395+12 ROAD EDGE
STA. 13395+25 PAVED, THOROUGHBRED RD CENTERLINE
STA. 13395+37 ROAD EDGE
STA. 13395+60 FENCE
STA. 13395+72 GAS PL
STA. 13395+88 TOWER, 414 FT. RIGHT
STA. 13395+93 TOWER, 242 FT. LEFT
STA. 13395+94 POWERLINE VERT. CLEARANCE 32 FT.
STA. 13396+43 FIRE HYDRANT, 128 FT. LEFT
STA. 13397+00 PI ~ 3°20'6" LT
STA. 13397+02 UNDERGROUND WATER
STA. 13397+30 UNDERGROUND SAN SEWER
STA. 13397+66 PI ~ 59°59'59" LT
STA. 13398+37 UNDERGROUND UNK
STA. 13399+01 LIGHT POLE, 144 FT. RIGHT
STA. 13399+06 PI ~ 5°35'50" LT
STA. 13399+54 UNDERGROUND WATER
STA. 13399+75 UNDERGROUND WATER
STA. 13400+25 GAS PL
STA. 13400+36 GAS PL
STA. 13400+66 PI ~ 45°4'2" RT
STA. 13400+98 UNDERGROUND SAN SEWER
STA. 13401+70 LIGHT POLE, 130 FT. RIGHT
STA. 13402+73 ROAD EDGE
STA. 13402+85 PAVED, NORTHERN DR CENTERLINE
STA. 13403+20 PI ~ 1°30'3" LT
STA. 13403+30 LIGHT POLE, 102 FT. RIGHT
STA. 13403+37 LIGHT POLE, 96 FT. RIGHT
STA. 13403+43 ROAD EDGE
STA. 13404+10 LIGHT POLE, 141 FT. RIGHT
STA. 13404+67 LIGHT POLE, 34 FT. LEFT
STA. 13404+94 LIGHT POLE, 112 FT. RIGHT
STA. 13405+30 FIRE HYDRANT, 471 FT. LEFT
STA. 13406+47 LIGHT POLE, 65 FT. RIGHT
STA. 13406+47 LIGHT POLE, 176 FT. RIGHT
STA. 13407+96 LIGHT POLE, 251 FT. RIGHT
STA. 13410+14 PI ~ 45°0'35" LT
STA. 13411+04 PI ~ 5°37'45" LT
STA. 13411+18 PIPELINE (SCALED)
STA. 13411+81 FENCE
STA. 13411+93 UNDERGROUND WATER
STA. 13412+37 GAS PL
STA. 13413+94 FIRE HYDRANT, 539 FT. RIGHT
STA. 13414+71 HDD EXIT
STA. 13415+29 LIGHT POLE, 98 FT. RIGHT
STA. 13415+55 FENCE
STA. 13416+04 OTHER WELL, 475 FT. LEFT
STA. 13416+26 TOP BANK
STA. 13416+35 DITCH, DEPTH 0 FT. CENTERLINE
STA. 13416+45 FENCE
STA. 13416+54 TOP BANK
STA. 13416+57 ROAD EDGE
STA. 13416+77 US 12 OVERPASS CENTERLINE (SCALED)
STA. 13416+98 ROAD EDGE
STA. 13417+00 TOP BANK
STA. 13417+35 DITCH, DEPTH 0 FT. CENTERLINE
STA. 13417+42 TOP BANK
STA. 13418+82 TOP BANK
STA. 13418+95 DITCH, DEPTH 0 FT. CENTERLINE
STA. 13419+19 TOP BANK
STA. 13419+37 ROAD EDGE
STA. 13419+60 PAVED, EASTBOUND US-12 LANE CENTERLINE (SCALED)
STA. 13419+91 ROAD EDGE
STA. 13419+97 TOP BANK
STA. 13420+07 TOP BANK
STA. 13420+32 TOE BANK
STA. 13421+63 TOE BANK
STA. 13421+70 UNDERGROUND SAN SEWER
STA. 13421+77 UNDERGROUND SAN SEWER
STA. 13421+88 UNDERGROUND SAN SEWER
STA. 13422+13 TOP BANK

CLASS LOCATION

CLASS 1 | CLASS 3 | CLASS 1

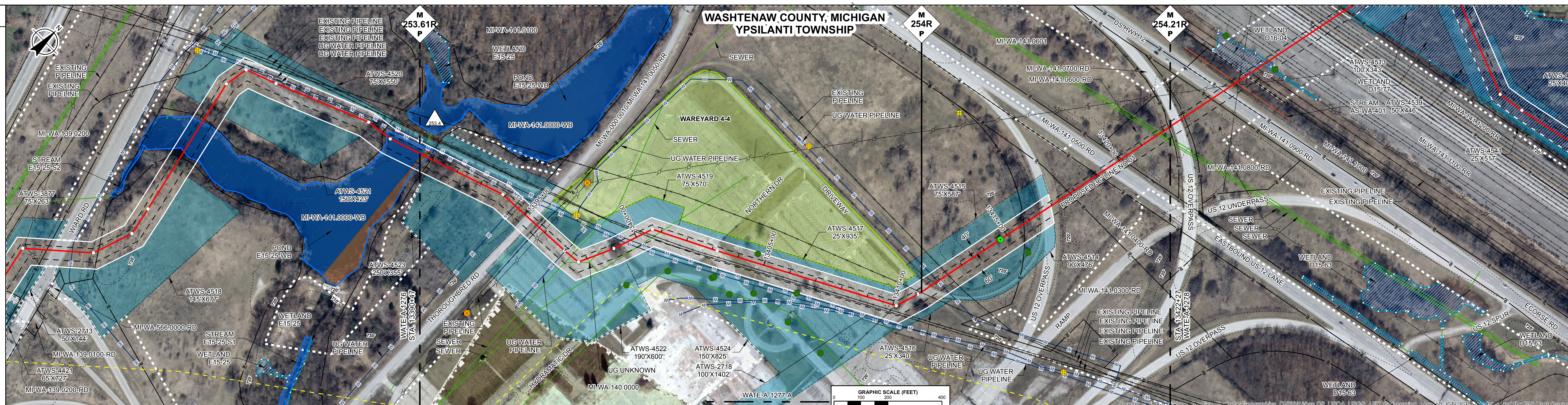
PIPE MATERIAL

PROJECT MODIFICATION TABLE	
PROJ. MOD. NUMBER	DESCRIPTION
253.4	RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.

ALIGNMENT LEGEND

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

DATE OF AERIAL PHOTOGRAPHY: MAY 2015



ENVIRONMENTAL DATA

STA. 13390+92 POND WILLOW RUN E15-25-WB EXIT

E & S TYPICALS

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

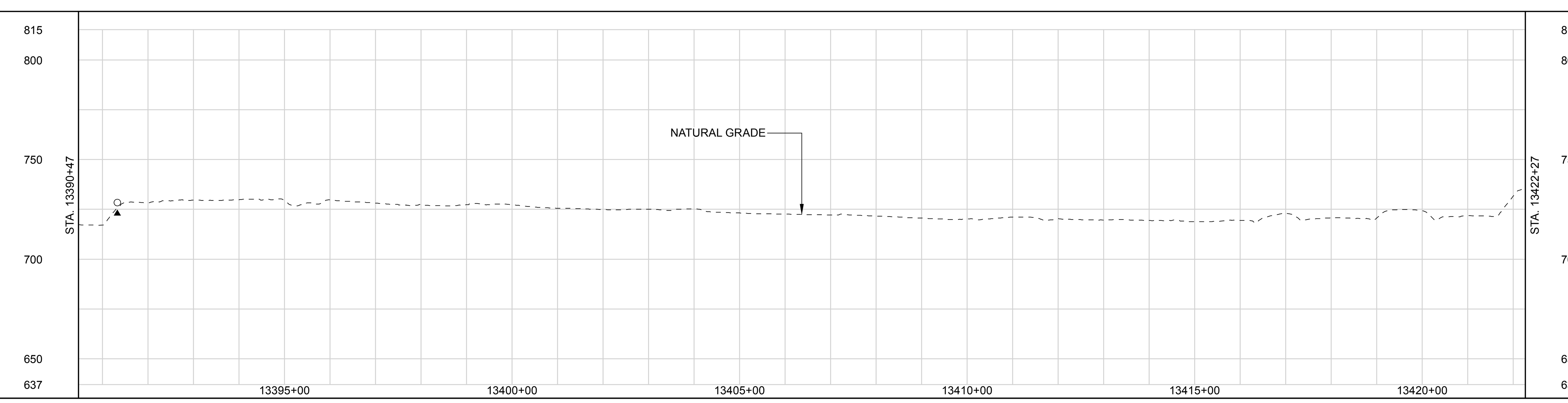
PROFILE

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: OW | F/W | OL | I/C | OL | I/C | OL | I/C | OL

% SLOPE: < 5% | 15-30% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 5-15% | < 5% | 15-30% | 5-15%

DWG. NO.	DESCRIPTION
WATE-A-1277-A	ALIGNMENT SHEET

REFERENCE DRAWINGS

REV	DSN	CK	DESCRIPTION
3			ISSUED FOR FERC (07/2016)
2			ISSUED FOR P3 (03/2016)
1			ISSUED FOR FERC (02/2016)
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

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

LOC. WASHTENAW COUNTY, MICHIGAN

YEAR: 2017 | W.B.S. | Scale 1" = 200' | WATE-A-1277 | REV. 3

NEXUS GAS TRANSMISSION

P:\295_UPSTREAM_PIPELINE\295K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 277 of 278.pdf - PLOT TIME: 2016-06-21 14:37:40

RIGHT-OF-WAY

TRACT NUMBERS

Tract	Start STA.	Length (rods)	Length (ft)	End STA.
MI-WA-141.0700-RD	13422+27	3.8 RODS	62 FT.	13422+89
MI-WA-141.0800-RD	13422+89	7.3 RODS	121 FT.	13424+10
MI-WA-141.0900-RD	13424+10	3.3 RODS	55 FT.	13424+65
MI-WA-141.1000	13424+65	6.2 RODS	102 FT.	13425+67
MI-WA-141.1100-RR	13425+67	19.5 RODS	321 FT.	13428+88
MI-WA-141.1200-RR	13428+88	7.1 RODS	117 FT.	13430+05
MI-WA-141.1300		195.2 RODS	3220 FT.	
MI-WA-141.1400	13462+25	9.2 RODS	152 FT.	13463+77

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 13422+29 FENCE
STA. 13422+36 ROAD EDGE
STA. 13422+48 PAVED, US 12 OVERPASS CENTERLINE
STA. 13422+72 ROAD EDGE
STA. 13422+73 TOP BANK
STA. 13422+77 FENCE
STA. 13422+81 TOP BANK
STA. 13423+46 TOE BANK
STA. 13423+85 TOE BANK
STA. 13424+11 TOP BANK
STA. 13424+27 ROAD EDGE
STA. 13424+53 US HWY 12 CENTERLINE (SCALED)
STA. 13424+81 ROAD EDGE
STA. 13424+84 TOP BANK
STA. 13425+02 POWERLINE VERT. CLEARANCE 50 FT.
STA. 13425+23 DITCH, DEPTH 0 FT. CENTERLINE
STA. 13425+32 TOP BANK
STA. 13425+33 POWERLINE VERT. CLEARANCE 25 FT.
STA. 13425+86 GAS PL
STA. 13425+86 LIGHT POLE, 165 FT. LEFT
STA. 13426+15 GAS PL
STA. 13426+52 POWERLINE VERT. CLEARANCE 29 FT.
STA. 13426+63 RAILROAD TOE
STA. 13426+68 LIGHT POLE, 39 FT. RIGHT
STA. 13426+72 RAILROAD TOP
STA. 13426+93 RAILROAD CENTERLINE
STA. 13427+08 RAILROAD CENTERLINE
STA. 13427+23 RAILROAD CENTERLINE
STA. 13427+86 RAILROAD CENTERLINE
STA. 13428+17 RAILROAD CENTERLINE
STA. 13428+31 RAILROAD CENTERLINE
STA. 13428+47 RAILROAD CENTERLINE
STA. 13428+62 RAILROAD CENTERLINE
STA. 13428+77 RAILROAD CENTERLINE
STA. 13428+92 RAILROAD CENTERLINE
STA. 13429+07 RAILROAD CENTERLINE
STA. 13429+23 RAILROAD CENTERLINE
STA. 13429+37 RAILROAD CENTERLINE
STA. 13429+51 RAILROAD CENTERLINE
STA. 13429+66 RAILROAD CENTERLINE
STA. 13429+71 RAILROAD TOP
STA. 13429+82 RAILROAD TOE
STA. 13432+10 HDD ENTRY
STA. 13433+95 PI ~ 89°59'59" RT
STA. 13434+95 PI ~ 10°0'0" RT
STA. 13438+43 POWERLINE VERT. CLEARANCE 33 FT.
STA. 13439+80 PI ~ 30°0'0" LT
STA. 13440+80 PI ~ 3°22'8" LT
STA. 13447+13 TOP BANK
STA. 13447+28 TOE BANK
STA. 13447+83 TOE BANK
STA. 13447+96 TOP BANK
STA. 13448+16 FENCE
STA. 13449+32 PI ~ 15°10'10" RT
STA. 13450+00 PI ~ 89°59'59" LT
STA. 13450+67 GAS PL
STA. 13450+75 GAS PL
STA. 13450+82 ROAD EDGE
STA. 13450+94 DIRT, NONE CENTERLINE
STA. 13451+07 ROAD EDGE
STA. 13451+45 UNDERGROUND POWER
STA. 13452+92 TOP BANK
STA. 13456+71 TOP BANK
STA. 13457+07 PI ~ 60°0'0" RT
STA. 13459+09 FIRE HYDRANT, 104 FT. RIGHT
STA. 13459+09 FIRE HYDRANT, 232 FT. RIGHT
STA. 13459+09 PI ~ 30°53'22" LT
STA. 13461+16 PI ~ 57°25'18" RT
STA. 13461+24 ROAD EDGE
STA. 13461+30 DIRT, NONE CENTERLINE
STA. 13461+35 ROAD EDGE
STA. 13461+42 FENCE
STA. 13461+45 TOP BANK
STA. 13461+61 DITCH, DEPTH 1.5 FT. CENTERLINE
STA. 13461+63 LIGHT POLE, 62 FT. RIGHT
STA. 13461+78 TOP BANK
STA. 13462+00 GAS PL
STA. 13462+34 DRIVEWAY EDGE
STA. 13462+44 DRIVEWAY CENTERLINE
STA. 13462+54 DRIVEWAY EDGE
STA. 13463+62 PI ~ 59°57'1" LT
STA. 13462+62 DRIVEWAY EDGE
STA. 13463+16 GAS PL
STA. 13463+22 DRIVEWAY CENTERLINE (SCALED)
STA. 13463+45 DRIVEWAY EDGE
STA. 13462+56 PI ~ 60°0'0" RT
STA. 13463+77 FIRE HYDRANT, 634 FT. RIGHT
STA. 13463+77 FIRE HYDRANT, 423 FT. RIGHT
STA. 13463+77 LIGHT POLE, 70 FT. RIGHT
STA. 13463+77 HOLDING TANK, 139 FT. RIGHT
STA. 13463+77 FIRE HYDRANT, 381 FT. LEFT
STA. 13463+77 LIGHT POLE, 156 FT. LEFT
STA. 13463+77 LIGHT POLE, 227 FT. LEFT
STA. 13463+77 LIGHT POLE, 251 FT. LEFT
STA. 13463+77 FIRE HYDRANT, 335 FT. LEFT
STA. 13463+77 PI ~ END

CLASS LOCATION

CLASS 1 | CLASS 2 | CLASS 3 | CLASS 2

PIPE MATERIAL

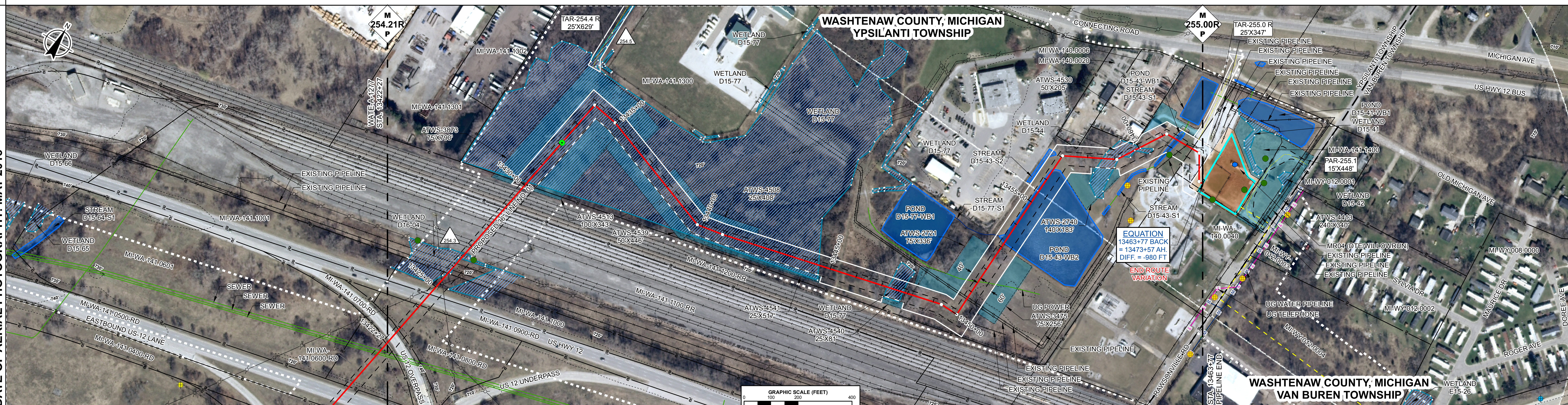
PROJECT MODIFICATION TABLE

PROJ. MOD. NUMBER	DESCRIPTION
254.3	RESOURCES UPDATED BASED ON WETLAND/WATERBODY FIELD SURVEYS.
254.5	TAR 254.4R ADJUSTED DUE TO LANDOWNER REQUEST.

ALIGNMENT LEGEND

PIPELINE MILEPOST
PROPOSED NEXUS PIPELINE - NOV. 2015 ROUTE
PROPOSED NEXUS PIPELINE
INTERCONNECTING PIPELINE TO TGP
CONSTRUCTION LIMIT
STUDY CORRIDOR
STAGING AREA
WAREYARD
PERMANENT ROW
ADDITIONAL TEMPORARY WORKSPACE
METERING & REGULATION STATION (M&R) SITE
COMPRESSOR STATION SITE
FACILITIES TEMPORARY WORKSPACE
FACILITIES PERMANENT WORKSPACE
AGRICULTURAL PEM WETLAND BOUNDARY
DELINEATED WETLAND BOUNDARY
DELINEATED WATERBODY BANK
DELINEATED WATERBODY CENTERLINE
APPROXIMATE WETLAND BOUNDARY
APPROXIMATE WATERBODY BANK
APPROXIMATE WATERBODY CENTERLINE
PERMANENT ACCESS ROAD — PAR-0.0
TEMPORARY ACCESS ROAD — TAR-0.0
PROPERTY LINE
CONTOUR — 120'
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. 13425+33 WETLAND D16-04 ENTER
STA. 13426+73 WETLAND D16-04 EXIT
STA. 13429+99 WETLAND D15-77 ENTER
STA. 13444+63 WETLAND D15-77 EXIT
STA. 13447+20 WETLAND D15-77 ENTER
STA. 13447+88 WETLAND D15-77 EXIT
STA. 13453+17 POND TRIBUTARY TO WILLOW RUN D15-43-WB2 ENTER
STA. 13456+56 POND TRIBUTARY TO WILLOW RUN D15-43-WB2 EXIT
STA. 13456+76 STREAM TRIBUTARY TO WILLOW RUN D15-43-S2 ENTER
STA. 13457+02 STREAM TRIBUTARY TO WILLOW RUN D15-43-S2 EXIT
STA. 13458+36 WETLAND D15-44 ENTER
STA. 13460+46 WETLAND D15-44 EXIT
STA. 13460+88 STREAM TRIBUTARY TO WILLOW RUN D15-43-S1 ENTER
STA. 13461+73 STREAM TRIBUTARY TO WILLOW RUN D15-43-S1 EXIT
STA. 13462+56 WETLAND D15-42 ENTER
STA. 13463+67 WETLAND D15-42 EXIT
STA. 13463+77 WETLAND D15-41 ENTER
STA. 13463+77 WETLAND D15-42 EXIT

E & S TYPICALS

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

PROFILE

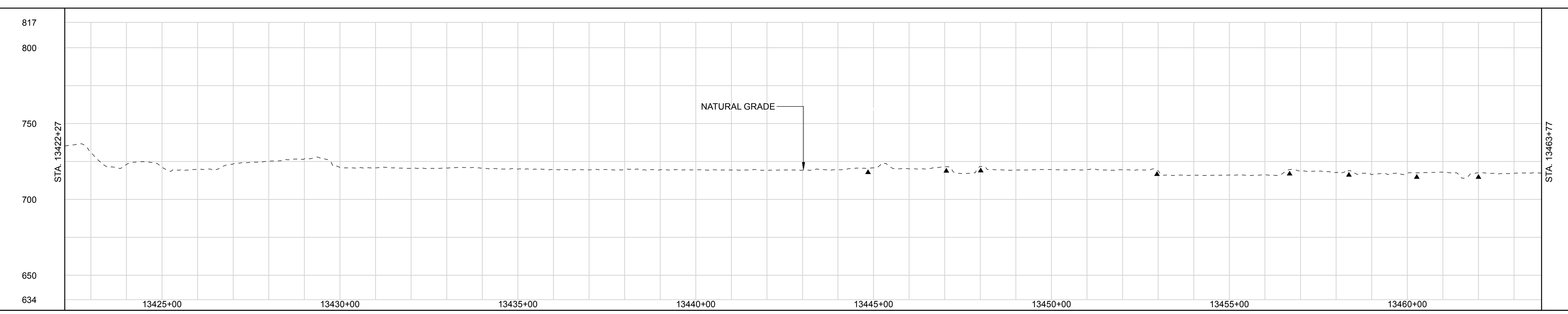
THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD.

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: OL | I/C | OL | I/C | OL | I/C | OL | F/W | OL | F/W | OL | OW | I/C | OL | F/W | OL | F/W | OL | I/C | OL | OW | OL | I/C

% SLOPE: 5-15% | 15-30% | 5-15% | <5% | 5-15% | <5% | 5-15% | <5% | 5-15% | <5% | 5-15% | <5% | 5-15% | <5% | 5-15% | <5% | 5-15% | <5% | 5-15% | <5% | 5-15% | <5% | 5-15% | <5%

REV	DSN	CK	DESCRIPTION
3A			ISSUED FOR FERC (08/2016)
3			ISSUED FOR FERC (07/2016)
2			ISSUED FOR P3 (03/2016)
1A			ISSUED FOR FERC (02/2016)
1			ISSUED FOR FERC (02/2016)
0B			ISSUED FOR FERC FILING (11/2015)
0A			ISSUED FOR FERC FILING (11/2015)
0			ISSUED FOR FERC FILING (11/2015)

DWG. NO. | DESCRIPTION — 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:	BID		CONSTRUCTION	
NAME	SIGNATURE	DATE	SIGNATURE	DATE

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

LOC. WASHTENAW COUNTY, MICHIGAN

YEAR: 2017 | W.B.S. | Scale 1" = 200' | WATE-A-1278 | REV. 3A

NEXUS GAS TRANSMISSION

IG #

P:\295_UPSTREAM_PIPELINE\295K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 278 of 278.pdf -- PLOT TIME: 2016-08-09 14:58:00