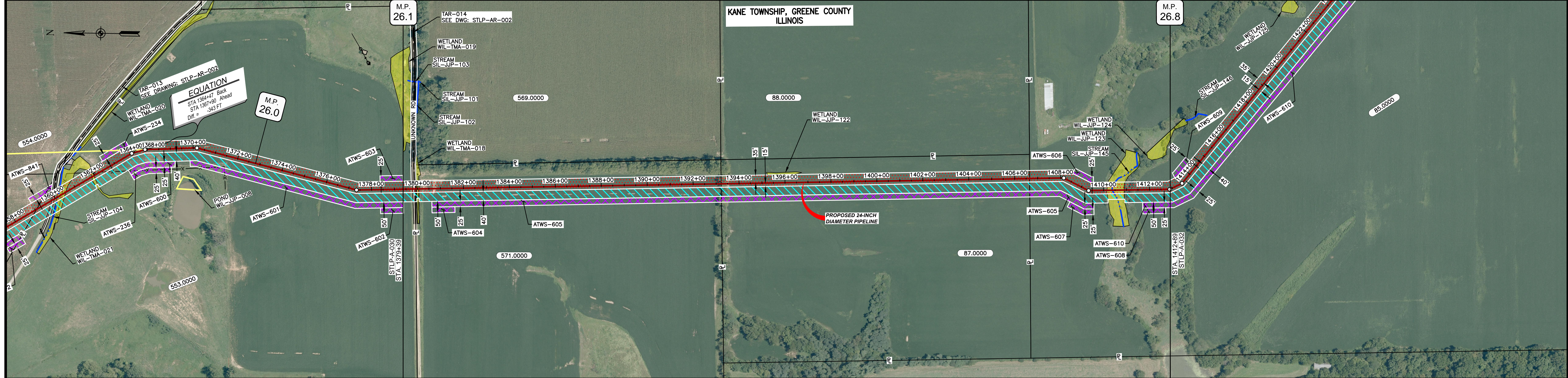


OWNERSHIP / FOOTAGE	553.0000 571.0000 87.0000 85.0000
STATIONING	1379+39 1379+45 1380+25 1380+22 PROPERTY LINE 1408+45 1408+45 PROPERTY LINE 1408+45 E.L. < 27.920' L.L. 1409+55 E.L. < 27.920' L.L. 1410+14 ENTER WETLAND WIL-JP-123 1410+38 ENTER WETLAND WIL-JP-145 1410+40 CENTERLINE OF STREAM SIL-JP-145 1410+88 EXIT WETLAND WIL-JP-123 1412+89 E.L. < 24.950' L.L.



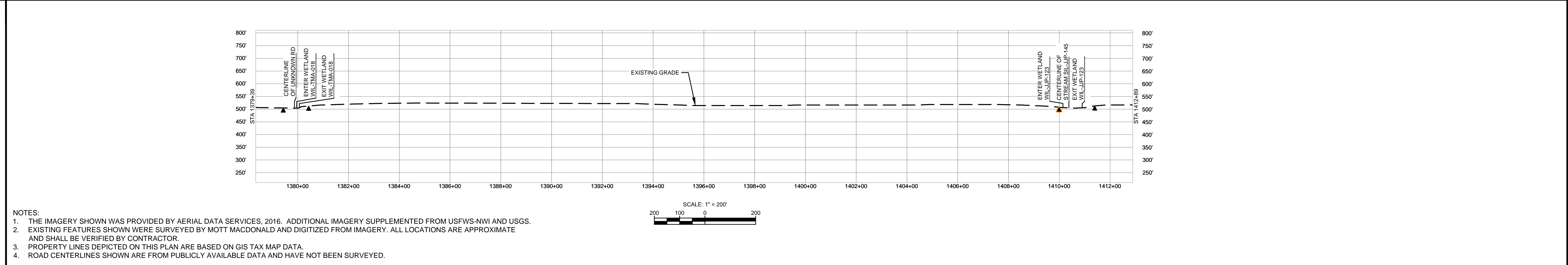
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG												
MATERIAL & COATING	<table border="1"> <tr> <td>1379+39</td> <td>1379+45</td> <td>1380+25</td> <td>1412+89</td> </tr> <tr> <td>6'</td> <td>80'</td> <td></td> <td>3264'</td> </tr> <tr> <td>1</td> <td>2</td> <td></td> <td>1</td> </tr> </table>	1379+39	1379+45	1380+25	1412+89	6'	80'		3264'	1	2		1
1379+39	1379+45	1380+25	1412+89										
6'	80'		3264'										
1	2		1										
DESIGN FACTOR	0.72	0.6	0.72										
CONSTRUCTION METHOD	OPEN CUT		OPEN CUT (FLUMED)   OPEN CUT										
PIPELINE COVER	5'												
SOILS	675C2	257B	51A   61A   675B   280D2   675C2   257B										
LAND USE	AG	OL   W   OL	AG   F   AG   OL   W   F   AG										

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER  
SOOK AT WATERBAR DISCHARGE  
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



NOTES:

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- EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
- PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA.
- ROAD CENTERLINES SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN SURVEYED.

MATERIAL	REFERENCE DRAWINGS
TAG QUANTITY DESCRIPTION	DWG. NO. TITLE
1 3270' PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED	STLP-AR-002 ACCESS ROAD SITE PLAN - TAR-013 & TAR-014
2 80' PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED	

REVISIONS				APPROVALS			
NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
1	ISSUE FOR FER	01/2017	GH	EB	DGG	DP	04/2017
2	AMENDMENT TO FER	04/2017	KAM	WH	DGG	RJP	04/2017

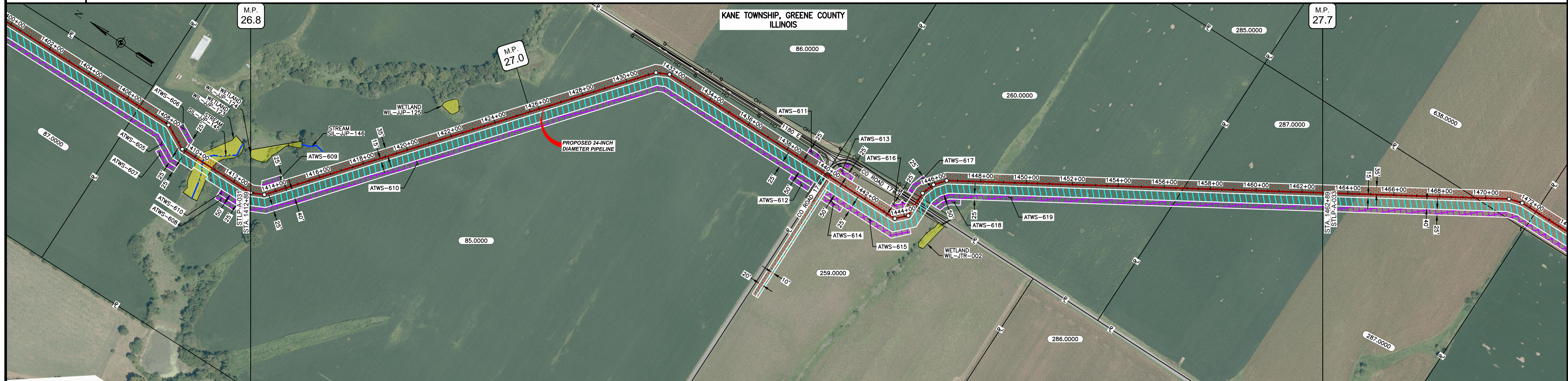
CLIENT APPROVAL	
DATE	SIGNATURE
04/2017	DGG
04/2017	JEV

PREPARED FOR	
SPIRE STL PIPELINE PROJECT	
ALIGNMENT SHEET	
PROPOSED 24-INCH DIAMETER PIPELINE	
GREENE COUNTY, ILLINOIS	
STA. 1379+39 TO STA. 1412+89	

SCALE	DRAWING NO.	REVISION
1" = 200'	STLP-A-031	2



OWNERSHIP / FOOTAGE	1412+89	85.0000	2711'	1420+00	259.0000	484'	1444+84	260.0000	1200'	1455+84	287.0000	605'	1462+89
STATIONING													



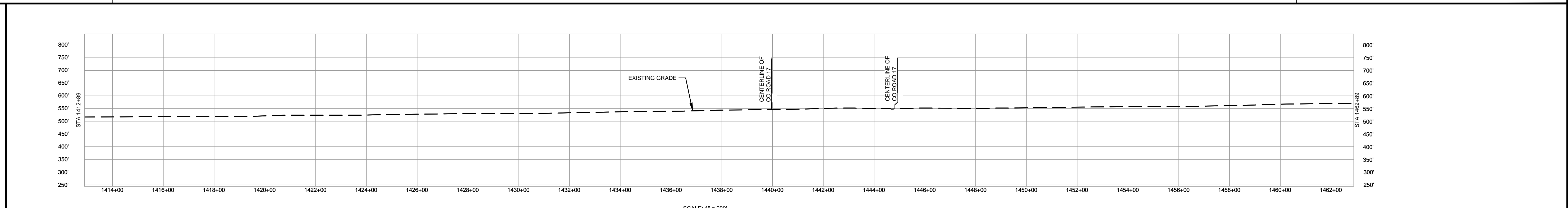
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG																																								
MATERIAL & COATING	<table border="1"> <tr> <td>1412+89</td> <td>2666'</td> <td>1439+55</td> <td>80'</td> <td>1440+35</td> <td>405'</td> <td>1444+40</td> <td>80'</td> <td>1445+20</td> <td>1769'</td> <td>1462+89</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>(1)</td> <td></td> <td>(2)</td> <td></td> <td>(1)</td> <td></td> <td>(2)</td> <td></td> <td>(1)</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>													1412+89	2666'	1439+55	80'	1440+35	405'	1444+40	80'	1445+20	1769'	1462+89					(1)		(2)		(1)		(2)		(1)				
1412+89	2666'	1439+55	80'	1440+35	405'	1444+40	80'	1445+20	1769'	1462+89																															
	(1)		(2)		(1)		(2)		(1)																																
DESIGN FACTOR	0.72																																								
CONSTRUCTION METHOD	OPEN CUT																																								
PIPELINE COVER	5'																																								
SOILS	25B	675C2	25B	675C2	25B	51B	675B	25B	61A	675B	51A																														
LAND USE	AG																																								

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER  
SOOK AT WATERBAR DISCHARGE  
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100

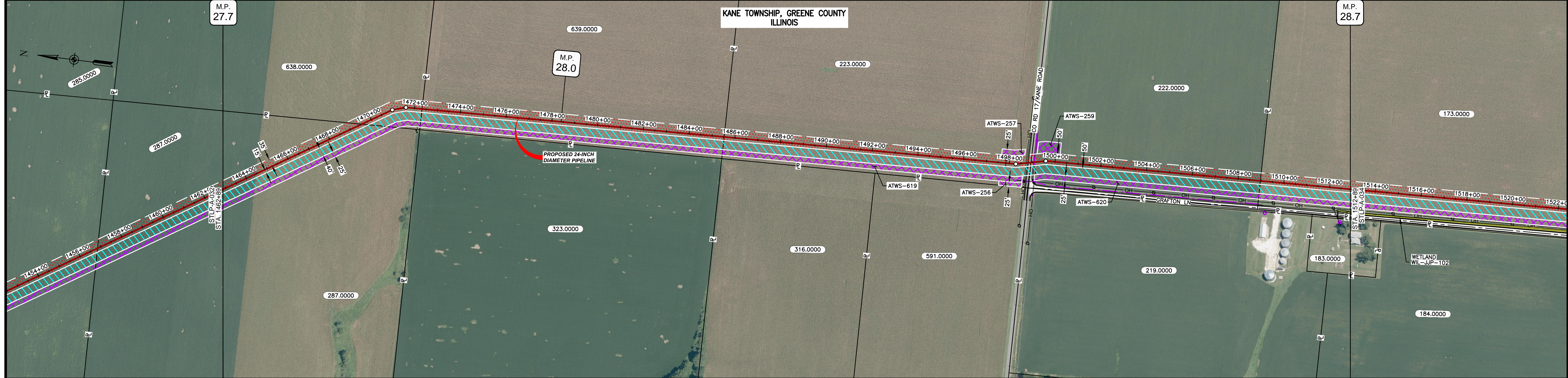


- NOTES:
1. THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.
  2. EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
  3. PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA.
  4. ROAD CENTERLINES SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN SURVEYED.

MATERIAL		REFERENCE DRAWINGS		REVISIONS				APPROVALS			SCALE PLAN: 1" = 200'		PREPARED FOR		SPIRE STL PIPELINE PROJECT		
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PROFILE H: 1" = 200'			ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE GREENE COUNTY, ILLINOIS STA. 1412+89 TO STA. 1462+89	
1	4840'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	04/2017	SCALE PROFILE V: 1" = 200'				
2	160'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMENDMENT TO FERC	04/2017	KAM	WH	DGG	CHECKED BY	DATE	CLIENT APPROVAL DATE				
											RJP	04/2017					
											ENG. APPROVAL	DATE					
											DGG	04/2017					
											P.M. APPROVAL	DATE					
											JEV	04/2017					



OWNERSHIP / FOOTAGE	1462+89	287.0000 666'	1469+85	638.0000 277'	1472+82	639.0000 1321'	1485+83	223.0000 1342'	1488+85	222.0000 1002'	1508+87	173.0000 392'	1512+89
STATIONING			1469+85 PROPERTY LINE	1471+02 E.L. < 117221.81	1476+82 E.L. < 117221.81	1472+82 PROPERTY LINE	1485+83 PROPERTY LINE		1488+85 PROPERTY LINE		1508+87 PROPERTY LINE		



CLASS LOCATION/MAOP	CLASS 1 / 1440 PSIG		
MATERIAL & COATING	1462+89	1489+80	1512+89
DESIGN FACTOR	0.72	0.6	0.72
CONSTRUCTION METHOD	OPEN CUT	BORE	OPEN CUT
PIPELINE COVER	5'		
SOILS	51A		68A
LAND USE	AG		OL D OL AG

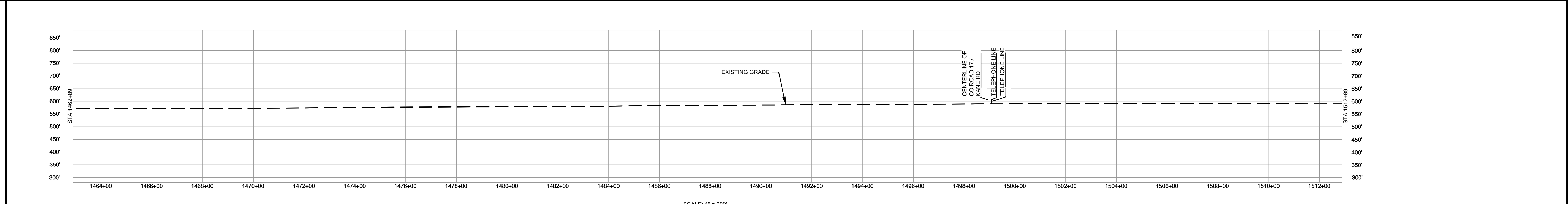
THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER  
SOAK AT WATERBAR DISCHARGE  
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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MATERIAL		REFERENCE DRAWINGS		REVISIONS				APPROVALS		PREPARED FOR		SPIRE STL PIPELINE PROJECT			
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200'	SCALE PROFILE H: 1" = 200'	SCALE PROFILE V: 1" = 200'
1	4920'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	04/2017			
2	80'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMENDMENT TO FERC	04/2017	KAM	WG	DGG	RJP	04/2017			

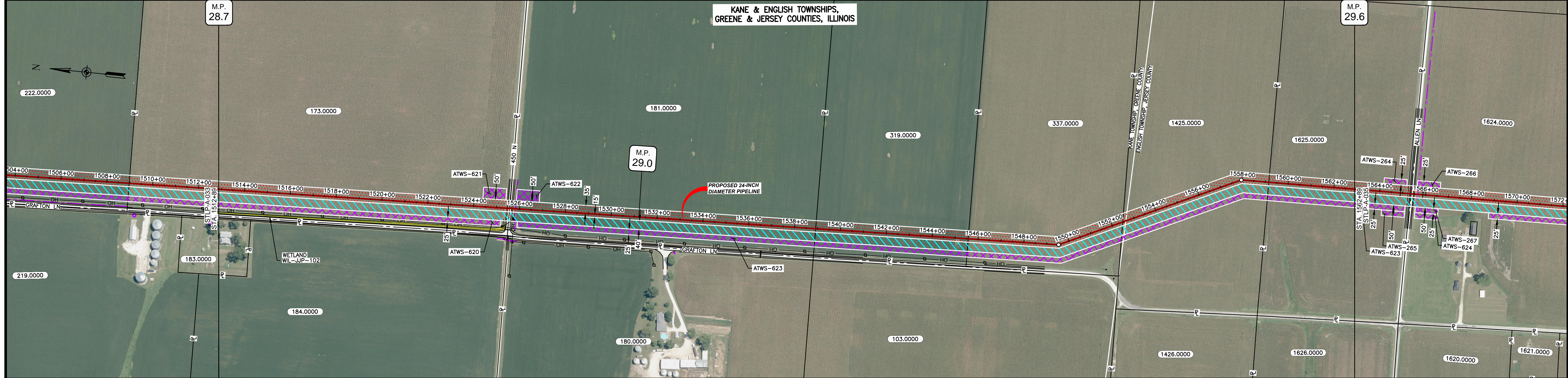
APPROVALS		CLIENT APPROVAL	
DRAWN BY	DATE	DATE	DATE
DP	04/2017		
CHECKED BY	DATE		
RJP	04/2017		
ENG. APPROVAL	DATE		
DGG	04/2017		
P.M. APPROVAL	DATE		
JEV	04/2017		

PREPARED BY		SCALE		DRAWING NO.		REVISION	
MOTT MACDONALD		1" = 200'		STLP-A-033		2	



OWNERSHIP / FOOTAGE	1512+89	173.0000 1267'	1524+86	181.0000 1335'	1538+91	319.0000 666'	1545+87	337.0000 690'	1552+47	1425.0000 668'	1559+15	1625.0000 374'	1562+89
STATIONING	<p>1524+44 CENTERLINE OF DITCH 1524+48 EDGE OF PAVEMENT 1524+68 PROPERTY LINE 1524+88 PROPERTY LINE 1524+97 CENTERLINE OF PAVEMENT 1524+71 CENTERLINE OF DITCH 1524+80 OVERHEAD LINE 1524+82 WATER LINE</p> <p>1538+92 PROPERTY LINE</p> <p>1545+87 PROPERTY LINE</p> <p>1548+61 CENTERLINE</p> <p>1552+48 PROPERTY LINE 1552+48 GREENE AND JERSEY COUNTIES LINE 1552+48 KANE AND ENGLISH TOWNSHIPS BOUNDARY</p> <p>1557+68 CENTERLINE</p> <p>1559+15 PROPERTY LINE</p>												



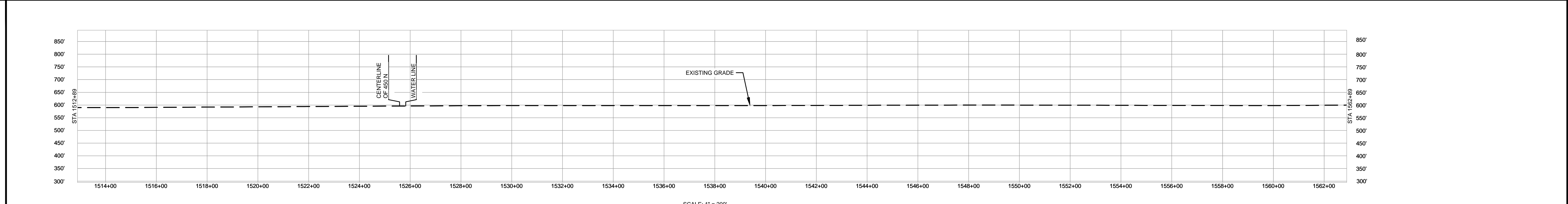
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG																
MATERIAL & COATING	1512+89	1524+86	1528+97	1562+89													
DESIGN FACTOR	0.72			0.6			0.72										
CONSTRUCTION METHOD	OPEN CUT			BORE			OPEN CUT										
PIPELINE COVER	5'																
SOILS	68A			51A			68A		45A		68A		51A		675B		51A
LAND USE	AG			OL		D		OL		AG							

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER  
SOOK AT WATERBAR DISCHARGE  
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

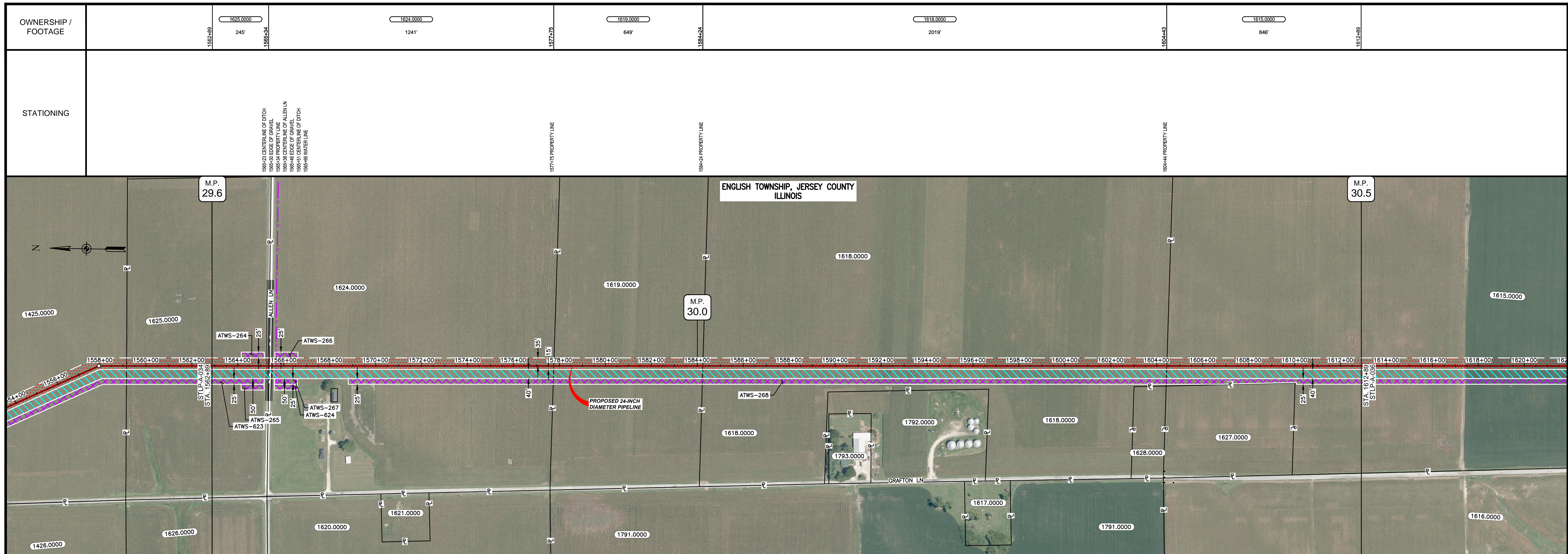
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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MATERIAL			REFERENCE DRAWINGS			REVISIONS				APPROVALS			SCALE PLAN		PREPARED FOR		SPIRE STL PIPELINE PROJECT		
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200'	PREPARED FOR <b>Spire STL Pipeline</b>	ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE GREENE & JERSEY COUNTIES, ILLINOIS STA. 1512+89 TO STA. 1562+89				
1	4920'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	04/2017	SCALE PROFILE H: 1" = 200'					PREPARED BY <b>M M</b> MOTT MACDONALD	SCALE
2	80'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMENDMENT TO FERC	04/2017	KAM	WH	DGG	CHECKED BY	DATE	SCALE PROFILE V: 1" = 200'	CLIENT APPROVAL	1" = 200'	STLP-A-034	2		
											RJP	04/2017							
											ENG. APPROVAL	DATE							
											DGG	04/2017							
											P.M. APPROVAL	DATE							
											JEV	04/2017							





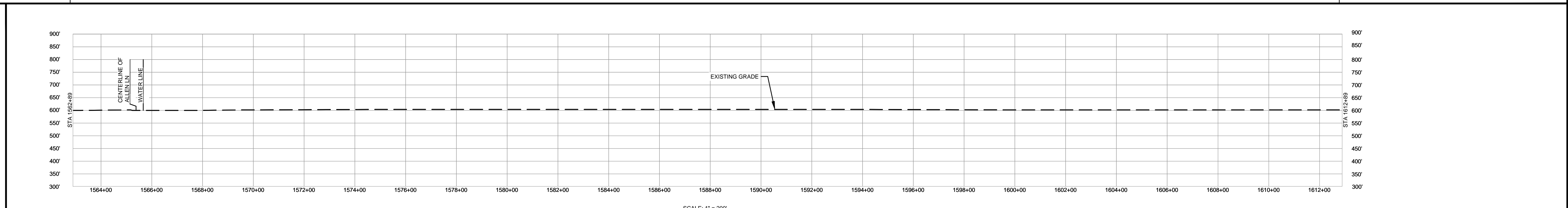
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG												
MATERIAL & COATING	<table border="1"> <tr> <td>1562+89</td> <td>1564+85</td> <td>1565+75</td> <td>1612+89</td> </tr> <tr> <td>206'</td> <td>80'</td> <td></td> <td>4714'</td> </tr> <tr> <td>①</td> <td>②</td> <td></td> <td>①</td> </tr> </table>	1562+89	1564+85	1565+75	1612+89	206'	80'		4714'	①	②		①
1562+89	1564+85	1565+75	1612+89										
206'	80'		4714'										
①	②		①										
DESIGN FACTOR	0.72	0.6	0.72										
CONSTRUCTION METHOD	OPEN CUT	BORE	OPEN CUT										
PIPELINE COVER	5'												
SOILS	51A	675B	51A										
LAND USE	AG	DL D	AG										

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER  
SOAK AT WATERBAR DISCHARGE  
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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MATERIAL		REFERENCE DRAWINGS		REVISIONS				APPROVALS		SCALE PLAN		PREPARED FOR		SPIRE STL PIPELINE PROJECT					
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN:	SCALE PROFILE H:	SCALE PROFILE V:	PREPARED BY	SCALE	DRAWING NO.	REVISION
1	4920'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	04/2017	1" = 200'	1" = 200'	1" = 200'	<b>M</b> <b>MOTT</b> <b>MACDONALD</b>	1" = 200'	STLP-A-035	2
2	80'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMENDMENT TO FERC	04/2017	KAM	WH	DGG	RJP	04/2017							



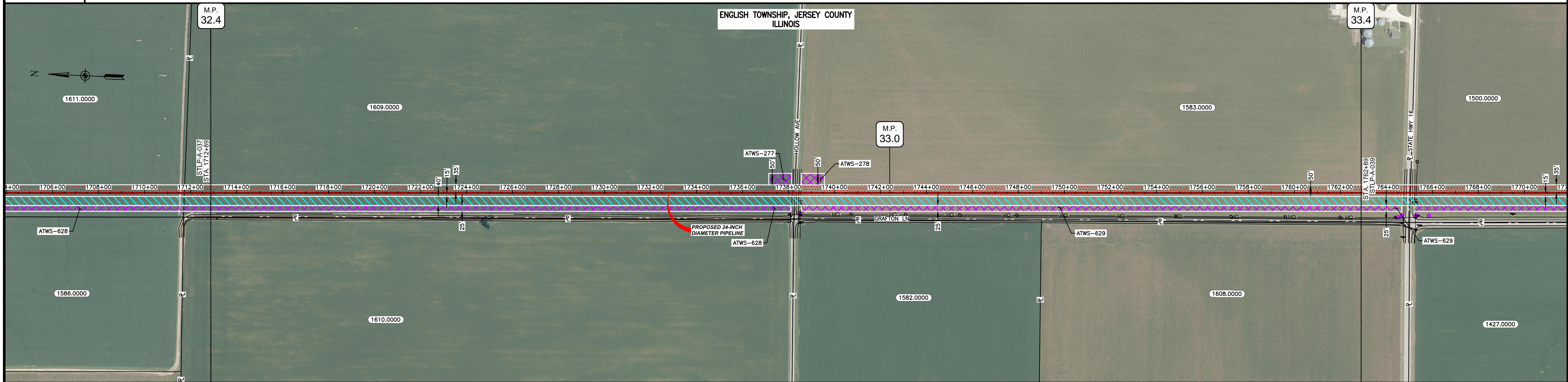








OWNERSHIP / FOOTAGE	1712+89	1699.0000 2539'	1738+28	1583.0000 2461'	1762+89
STATIONING					



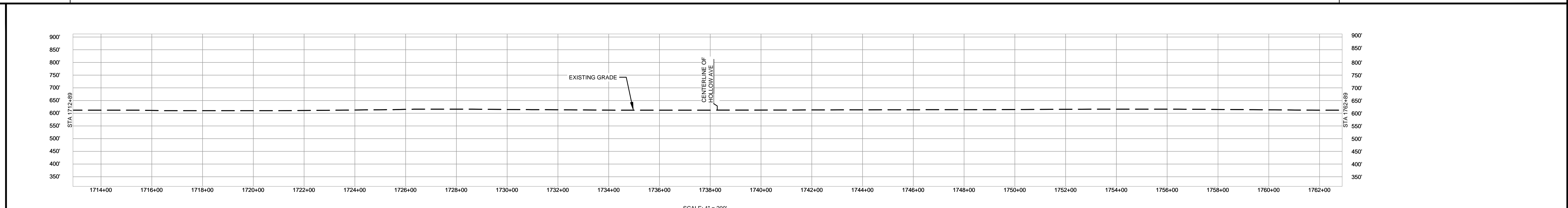
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG				
MATERIAL & COATING	1712+89	2499'	1737+88	80'	1759+68
DESIGN FACTOR	0.72		0.6		0.72
CONSTRUCTION METHOD	OPEN CUT		BORE		OPEN CUT
PIPELINE COVER	5'				
SOILS	51A	68A	51A	68A	51A
LAND USE	AG		OL   D   OL	AG	

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER  
SOCK AT WATERBAR DISCHARGE  
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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  - EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
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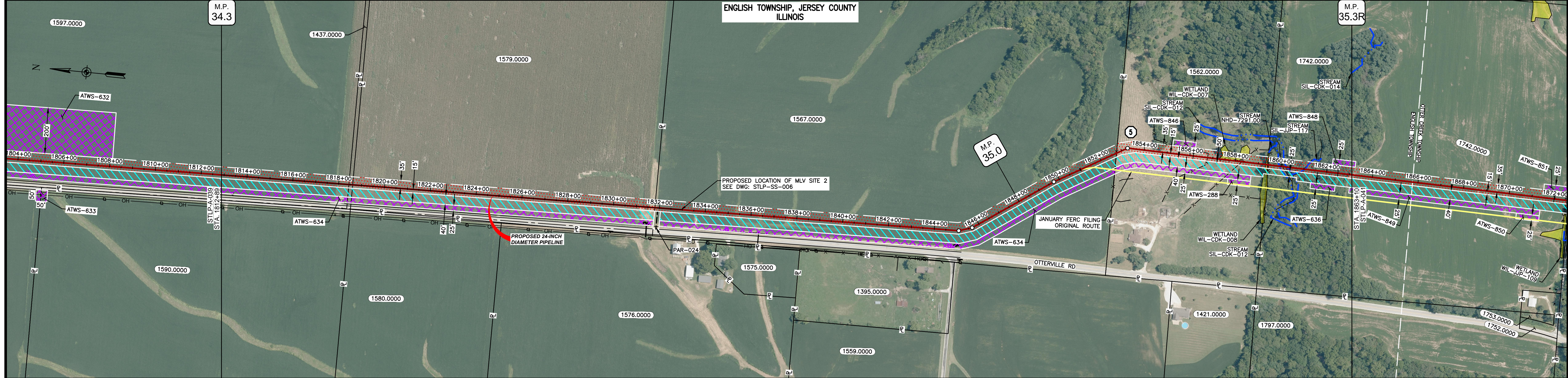
MATERIAL		REFERENCE DRAWINGS		REVISIONS				APPROVALS		PREPARED FOR		SPIRE STL PIPELINE PROJECT			
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN:	SCALE PROFILE H:	SCALE PROFILE V:
1	4920'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	03/2017	1" = 200'	1" = 200'	1" = 200'
2	80'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMENDMENT TO FERC	04/2017	KAM	WH	DGG	RJP	03/2017			
											CLIENT APPROVAL		PREPARED BY		
											DATE		MOTT MACDONALD		
											DATE		SCALE		
											DATE		DRAWING NO.		
											DATE		STLP-A-038		
											DATE		REVISION		
											DATE		2		







OWNERSHIP / FOOTAGE	1812+89	1597.0000 556'	1437.0000 16'	1579.0000 1319'	1587.0000 2094'	1562.0000 668'	1742.0000 368'	1883+10
STATIONING	<p>1812+89</p> <p>1818+45 PROPERTY LINE 1818+61 PROPERTY LINE</p> <p>1831+80 PROPERTY LINE</p> <p>1854+07 E.L. &amp; F.S. 10' DITCH 1854+07 E.L. &amp; F.S. 10' DITCH</p> <p>1859+72 E.L. &amp; F.S. 10' DITCH 1859+72 E.L. &amp; F.S. 10' DITCH</p> <p>1851+02 BEGIN LINE CHANGE</p> <p>1862+74 FENCE 1862+74 FENCE 1862+74 FENCE 1862+74 FENCE</p> <p>1868+78 FENCE 1868+78 FENCE 1868+78 FENCE 1868+78 FENCE</p> <p>1869+42 ENTER WETLAND WIL-CDK-008 1869+42 ENTER WETLAND WIL-CDK-008 1869+42 ENTER WETLAND WIL-CDK-008 1869+42 ENTER WETLAND WIL-CDK-008</p> <p>1869+42 PROPERTY LINE 1869+42 PROPERTY LINE 1869+42 PROPERTY LINE 1869+42 PROPERTY LINE</p> <p>1869+07 ENTER WETLAND WIL-CDK-012 1869+07 ENTER WETLAND WIL-CDK-012 1869+07 ENTER WETLAND WIL-CDK-012 1869+07 ENTER WETLAND WIL-CDK-012</p> <p>1869+07 EDGE OF STREAM SIL-CDK-012 1869+07 EDGE OF STREAM SIL-CDK-012 1869+07 EDGE OF STREAM SIL-CDK-012 1869+07 EDGE OF STREAM SIL-CDK-012</p> <p>1869+10 CENTERLINE OF STREAM SIL-CDK-012 1869+10 CENTERLINE OF STREAM SIL-CDK-012 1869+10 CENTERLINE OF STREAM SIL-CDK-012 1869+10 CENTERLINE OF STREAM SIL-CDK-012</p>							



CLASS LOCATION/MAOP	CLASS I / 1440 PSIG																		
MATERIAL & COATING																			
DESIGN FACTOR	0.72																		
CONSTRUCTION METHOD	OPEN CUT																		
PIPELINE COVER	OPEN CUT (FLUMED)    OPEN CUT																		
SOILS	675B	61A	675B	61A	675B	119C2	675B	279B	119C2	279B	119D2	3634A	8D2	119C3					
LAND USE	AG										W	AG	W	AG	W	F	OW	F	AG

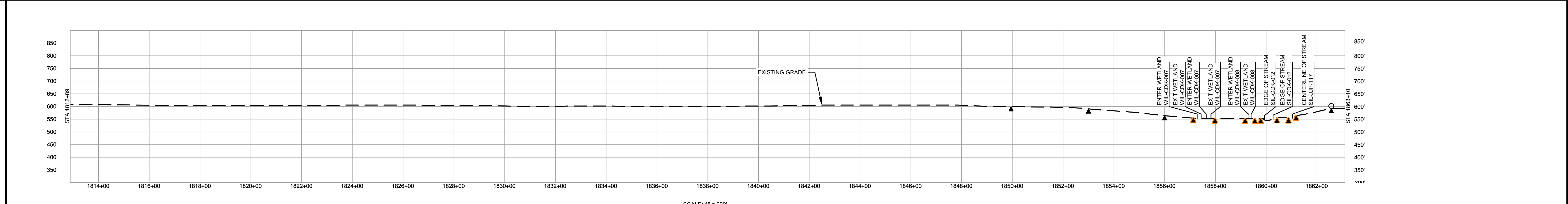
THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER  
SOOK AT WATERBAR DISCHARGE  
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



- NOTES:
- THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.
  - EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
  - PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA.
  - ROAD CENTERLINES SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN SURVEYED.

MATERIAL		REFERENCE DRAWINGS		REVISIONS			APPROVALS		PREPARED FOR		SPIRE STL PIPELINE PROJECT						
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200'	SCALE PROFILE H: 1" = 200'	SCALE PROFILE V: 1" = 200'		ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE JERSEY COUNTY, ILLINOIS STA. 1812+89 TO STA. 1863+10
1	4961'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED	TAR-015	ACCESS ROAD SITE PLAN - TAR-015	1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	03/2017					
REF	60'	SEE REFERENCED DETAIL DRAWING	STLP-SS-006	24" PIPELINE MLV SITE 2	2	AMENDMENT TO FERC	04/2017	KAM	WH	DGG	RJP	03/2017					
										CHECKED BY: DATE RJP 03/2017 ENG. APPROVAL: DATE DGG 04/2017 P.M. APPROVAL: DATE JEW 04/2017		CLIENT APPROVAL: DATE PREPARED BY:				SCALE: 1" = 200' DRAWING NO.: STLP-A-040 REVISION: 2	