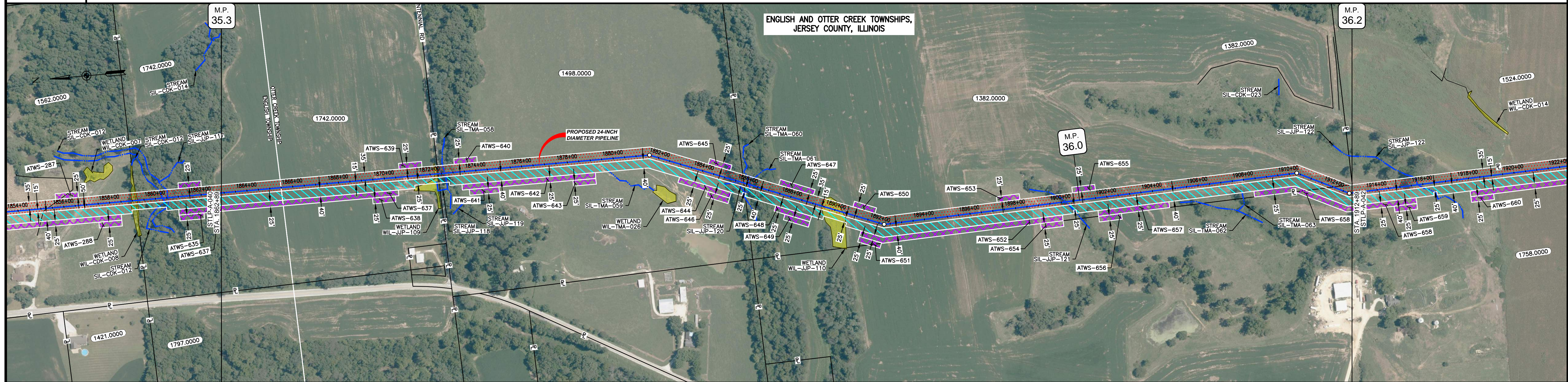


OWNERSHIP / FOOTAGE		1742.0000 946'	1498.0000 1351'	1382.0000 2617'	1758.0000 86'
STATIONING		1862+89	1877+95	1886+98	1912+89



CLASS LOCATION/MAOP CLASS I / 1480 PSIG

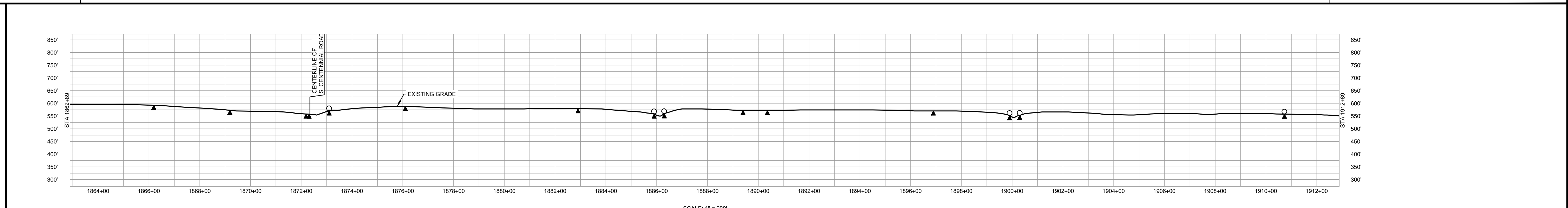
MATERIAL & COATING	1862+89	1871+98	1872+78	1912+89
DESIGN FACTOR	0.72	0.6		0.72
CONSTRUCTION METHOD	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)
PIPELINE COVER	5'	3'	5'	3'
SOILS	279B, 279C2, 515C3, 119D2	8D2, 119D2	279B, 119C2, 279B, 119C2	8D2, 279B, 119C2, 279B, 16A, 279B, 119C3, 279B, 8F2, 279B
LAND USE				

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  
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

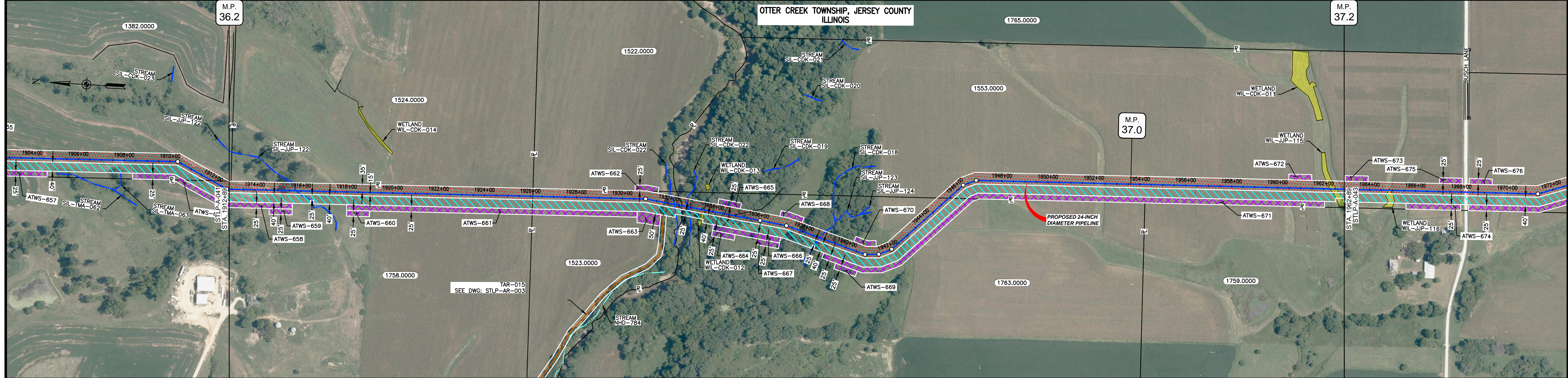
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



- 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		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'	ALIGNMENT SHEET	
1	4920	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FER	1/2017				SB	1/2017	SCALE PROFILE H: 1" = 200'	PROPOSED 24-INCH DIAMETER PIPELINE	
2	80	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017	SCALE PROFILE V: 1" = 200'	JERSEY COUNTY, ILLINOIS	
											ENG. APPROVAL	DATE	CLIENT APPROVAL	STA. 1862+89 TO STA. 1912+89	
											DGG	1/2017	PREPARED BY	MOTT MACDONALD	
											P.M. APPROVAL	DATE	DATE	SCALE	DRAWING NO.
											JEV	1/2017	DATE	1" = 200'	STLPA-041
													REVISION		1

OWNERSHIP / FOOTAGE	1758.0000 1320'	1523.0000 652'	1763.0000 1282'	1553.0000 1746'	
STATIONING	1912+89 1912+89 1914+00 1916+00 1918+00 1920+00 1922+00 1924+00 1926+00 1928+00 1930+00 1932+00 1934+00 1936+00 1938+00 1940+00 1942+00 1944+00 1946+00 1948+00 1950+00 1952+00 1954+00 1956+00 1958+00 1960+00 1962+89	1912+89 1912+89 1914+00 1916+00 1918+00 1920+00 1922+00 1924+00 1926+00 1928+00 1930+00 1932+00 1934+00 1936+00 1938+00 1940+00 1942+00 1944+00 1946+00 1948+00 1950+00 1952+00 1954+00 1956+00 1958+00 1960+00 1962+89	1912+89 1912+89 1914+00 1916+00 1918+00 1920+00 1922+00 1924+00 1926+00 1928+00 1930+00 1932+00 1934+00 1936+00 1938+00 1940+00 1942+00 1944+00 1946+00 1948+00 1950+00 1952+00 1954+00 1956+00 1958+00 1960+00 1962+89	1912+89 1912+89 1914+00 1916+00 1918+00 1920+00 1922+00 1924+00 1926+00 1928+00 1930+00 1932+00 1934+00 1936+00 1938+00 1940+00 1942+00 1944+00 1946+00 1948+00 1950+00 1952+00 1954+00 1956+00 1958+00 1960+00 1962+89	1912+89 1912+89 1914+00 1916+00 1918+00 1920+00 1922+00 1924+00 1926+00 1928+00 1930+00 1932+00 1934+00 1936+00 1938+00 1940+00 1942+00 1944+00 1946+00 1948+00 1950+00 1952+00 1954+00 1956+00 1958+00 1960+00 1962+89



CLASS LOCATION/MAOP	CLASS I / 1480 PSIG																					
MATERIAL & COATING	5000'																					
DESIGN FACTOR	0.72																					
CONSTRUCTION METHOD	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT			OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT													
PIPELINE COVER	5'		7'			3'		5'		3'												
SOILS	279B	8F2	3634A	119D3	3634A	3333A	3634A	8G	280C2	8G	280C2	8G	280C2	279B	515B2	279B	515B2	279B	515B2	515C2	515B2	515C2
LAND USE																						

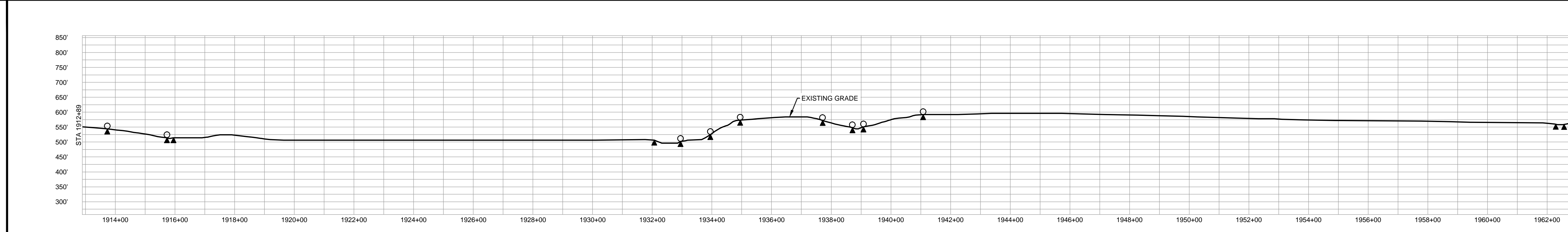
THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER  
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

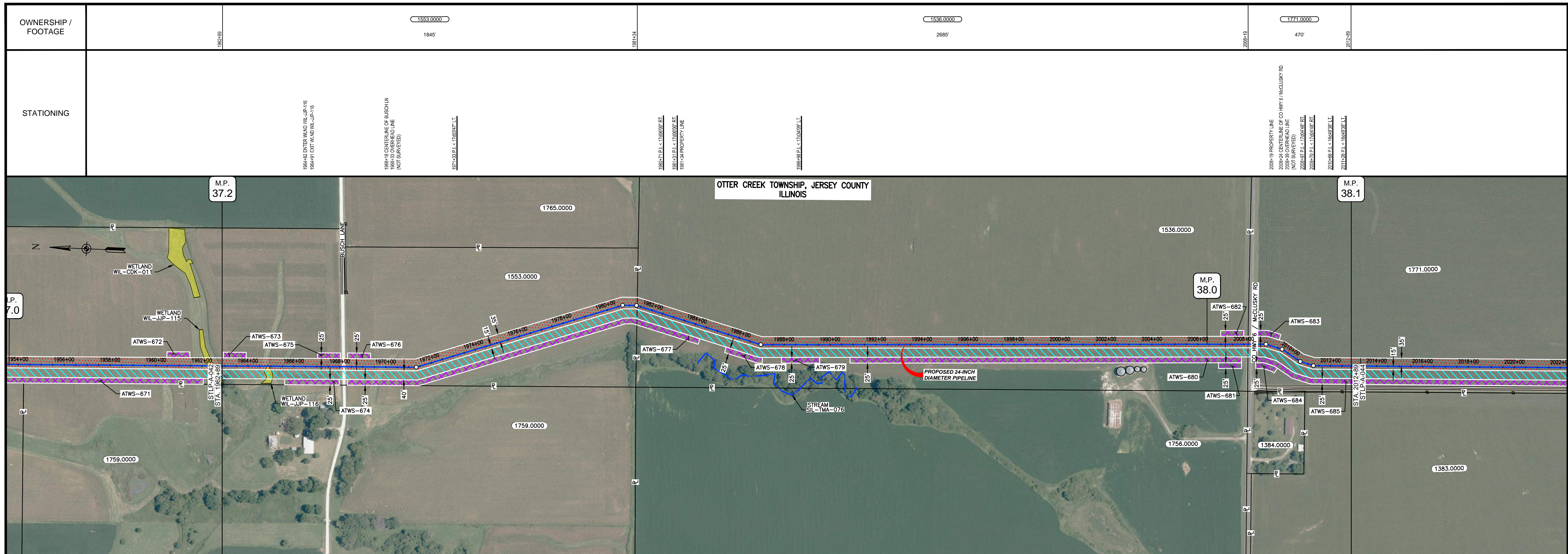
  

MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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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'	MOTT MACDONALD	ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE JERSEY COUNTY, ILLINOIS STA. 1912+89 TO STA. 1962+89		
1	5000	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED	STLP-AR-003	ACCESS ROAD SITE PLAN - TAR-015	1	ISSUE FOR PERC	1/2017				SB	1/2017	SCALE PROFILE H: 1" = 200'				
											EB	1/2017	SCALE PROFILE V: 1" = 200'				
											ENG. APPROVAL	DATE	CLIENT APPROVAL				
											DGG	1/2017	DATE				
											P.M. APPROVAL	DATE	DATE				
											JEV	1/2017					



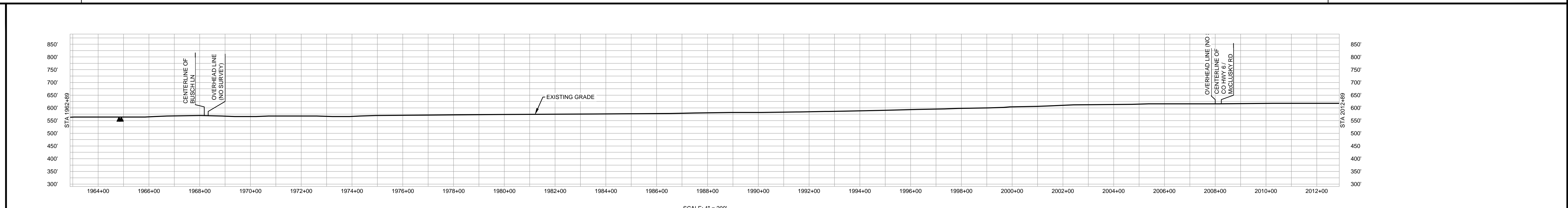
CLASS LOCATION/MAOP	CLASS I / 1480 PSIG	
MATERIAL & COATING	1962+89 to 1967+81: 492' (1)	1967+81 to 1969+81: 80' (2)
DESIGN FACTOR	0.72	0.6
CONSTRUCTION METHOD	OPEN CUT	
PIPELINE COVER	5'	
SOILS	515C2, 675B, 515C2, 675B, 515C2, 675B, 515C2, 675B	675B, 61A
LAND USE		

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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			PREPARED FOR		SPIRE STL PIPELINE PROJECT		
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	CLIENT APPROVAL	DATE	SCALE	DRAWING NO.	REVISION
1	4840	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FER	1/2017				SB	1/2017			1" = 200'	STLP-A-043	1
2	160	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017					

**Spire STL Pipeline**

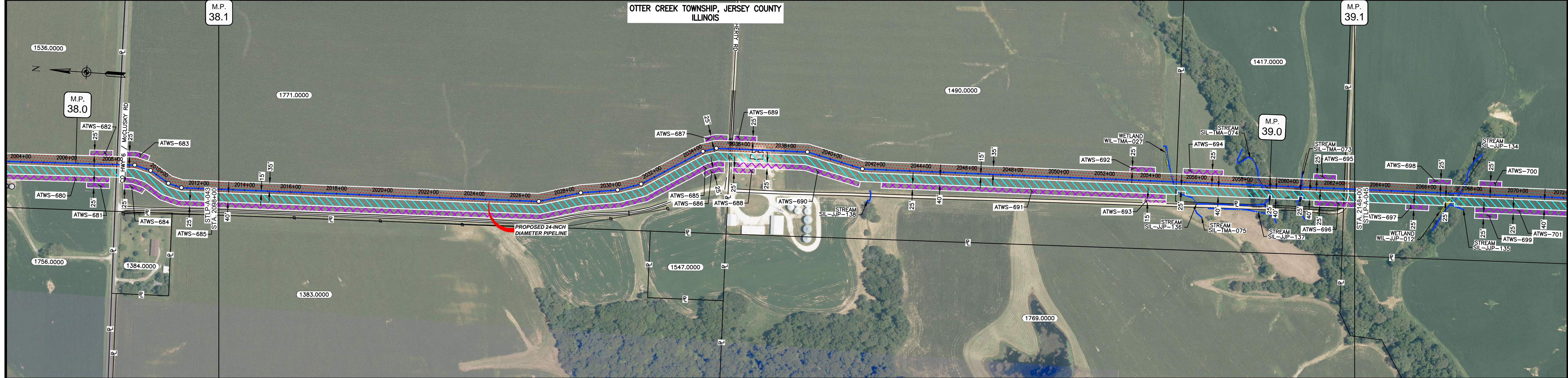
**MOTT MACDONALD**

SCALE: 1" = 200'  
 SCALE PROFILE H: 1" = 200'  
 SCALE PROFILE V: 1" = 200'

PREPARED BY: **M M**  
**MOTT MACDONALD**

SPIRE STL PIPELINE PROJECT  
 ALIGNMENT SHEET  
 PROPOSED 24-INCH DIAMETER PIPELINE  
 JERSEY COUNTY, ILLINOIS  
 STA. 1962+89 TO STA. 2012+89

OWNERSHIP / FOOTAGE		1771.0000	1490.0000	1417.0000	1391.0000
	2072+89	2271'	1953'	732'	44'
STATIONING		2024+82 P.L. 13465311 L.	2028+88 P.L. 6867377 R.L.	2030+30 P.L. 8421211 L.	2031+34 P.L. 13685861 L.
		2034+38 P.L. 1593712 R.L.	2038+09 P.L. 1593712 R.L.	2058+01 CENTERLINE OF DAUGHERTY ROAD	
			2064+82 P.L. 1468271 L.		
				2054+88 CENTERLINE OF STREAM SIL-JP-138	
				2054+13 PROPERTY LINE	
				2058+84 CENTERLINE OF STREAM SIL-TMA-074	
				2058+88 CENTERLINE OF DITCH	
				2059+56 CENTERLINE OF DITCH	
				2059+61 CENTERLINE OF STREAM SIL-TMA-073	
				2064+85 PROPERTY LINE	
				2065+07 CENTERLINE OF GODDARD LN	

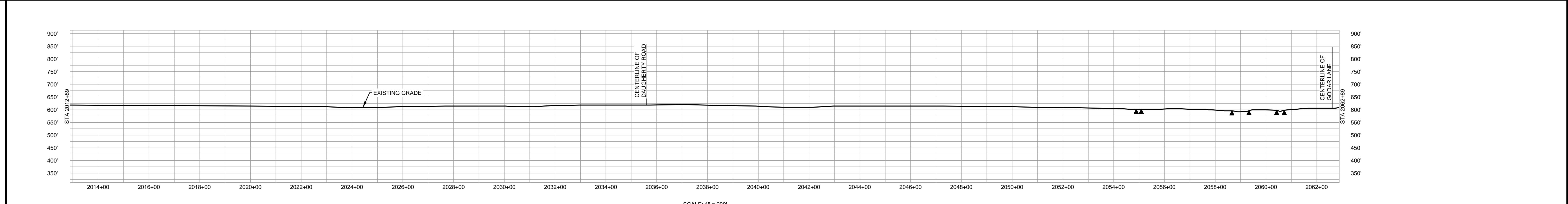


CLASS LOCATION/MAOP	CLASS I / 1480 PSIG										
MATERIAL & COATING	2012+89										
DESIGN FACTOR	0.72			0.6			0.72			0.6	
CONSTRUCTION METHOD	OPEN CUT					OPEN CUT (FLUMED)		OPEN CUT		OPEN CUT (FLUMED)	
PIPELINE COVER	5'					3'		5'		3'	
SOILS	61A	675B	279C2	675B	279C2	675B	279C2	119D3	279C2	279B	279C2
LAND USE											

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

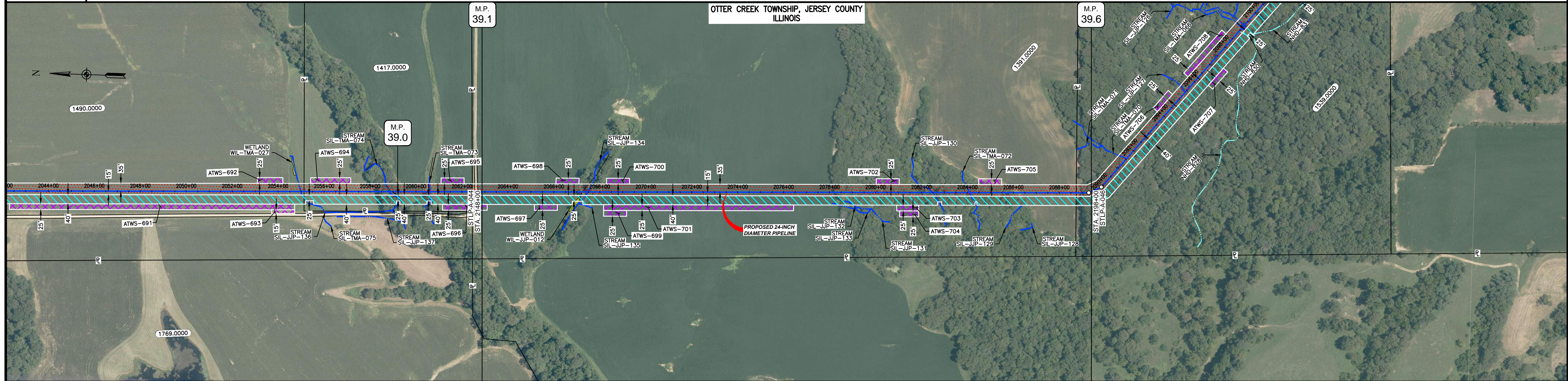
ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



NOTES:  
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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'	MOTT MACDONALD	ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE JERSEY COUNTY, ILLINOIS STA. 2098+00 TO STA. 2148+00		
1	4855	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017				SB	1/2017	SCALE PROFILE H: 1" = 200'				
2	145	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017	SCALE PROFILE V: 1" = 200'				
											ENG. APPROVAL	DATE	CLIENT APPROVAL				
											DGG	1/2017	DATE				
											P.M. APPROVAL	DATE					
											JEV	1/2017					
SCALE: 1" = 200'																	
DRAWING NO. STLPA-044																	
REVISION 1																	

OWNERSHIP / FOOTAGE		1391.0000 2585'	1539.0000 65'
STATIONING		2062+89 2062+71 2062+99	2088+71 2088+99



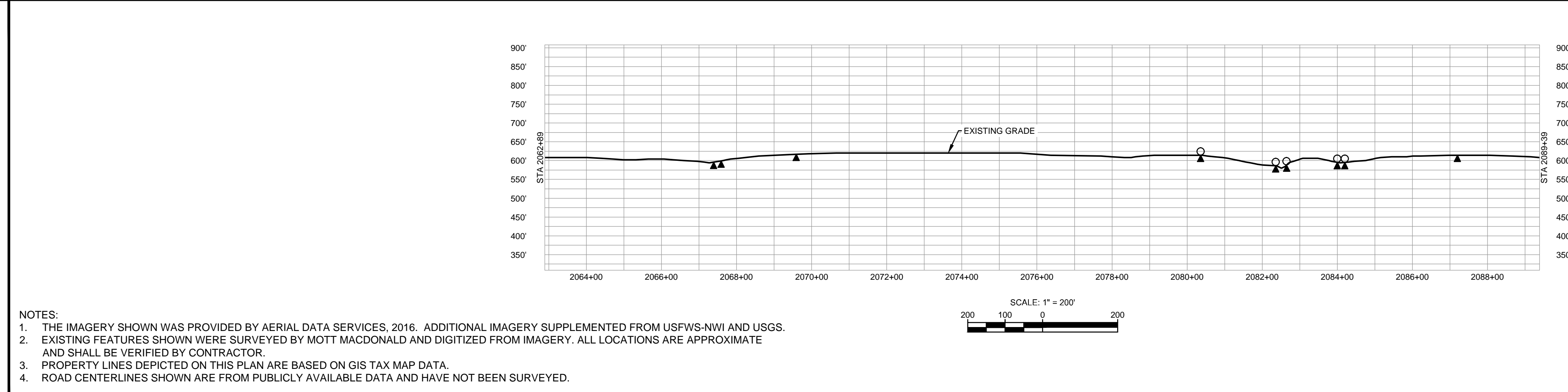
CLASS LOCATION/MAOP CLASS I / 1480 PSIG

MATERIAL & COATING		2062+89 2069+04 2089+39	2635'
DESIGN FACTOR		0.6	0.72
CONSTRUCTION METHOD		OPEN CUT	OPEN CUT (FLUMED)
PIPELINE COVER		5'	3'
SOILS		279B, 279C3, 19D3, 279C3	119D3, 279B, 119D2, 279B, 280C
LAND USE			

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

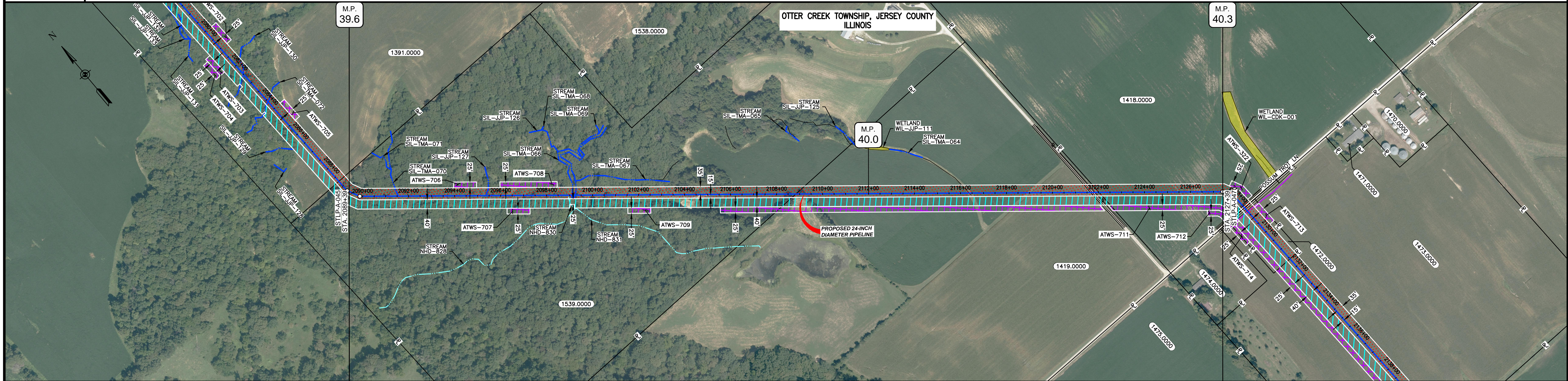
ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15 - 30%	200	200
>30%	100	100
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10 - 15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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MATERIAL				REFERENCE DRAWINGS				REVISIONS				APPROVALS				SCALE PLAN: 1" = 200' SCALE PROFILE H: 1" = 200' SCALE PROFILE V: 1" = 200'	PREPARED FOR <b>Spire STL Pipeline</b>	SPIRE STL PIPELINE PROJECT ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE JERSEY COUNTY, ILLINOIS STA. 2148+00 TO STA. 2198+00
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	CLIENT APPROVAL	PREPARED BY				
1	2635	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR PERC	1/2017				SB	1/2017		<b>M</b> MOTT MACDONALD				
2	15	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017						

OWNERSHIP / FOOTAGE		1538.0000	1418.0000	1418.0000
		1945'	1316'	537'
STATIONING		2089+39	2108+84	2127+39



CLASS LOCATION/MAOP CLASS I / 1480 PSIG

MATERIAL & COATING	3800'												
DESIGN FACTOR	0.72												
CONSTRUCTION METHOD	OPEN CUT			OPEN CUT (FLUMED)				OPEN CUT					
PIPELINE COVER	3'			5'				3'					
SOILS	280C	8D2	280C	8D2	8F2	279B	119D2	279B	278A	279C2	278A	61A	51A
LAND USE													

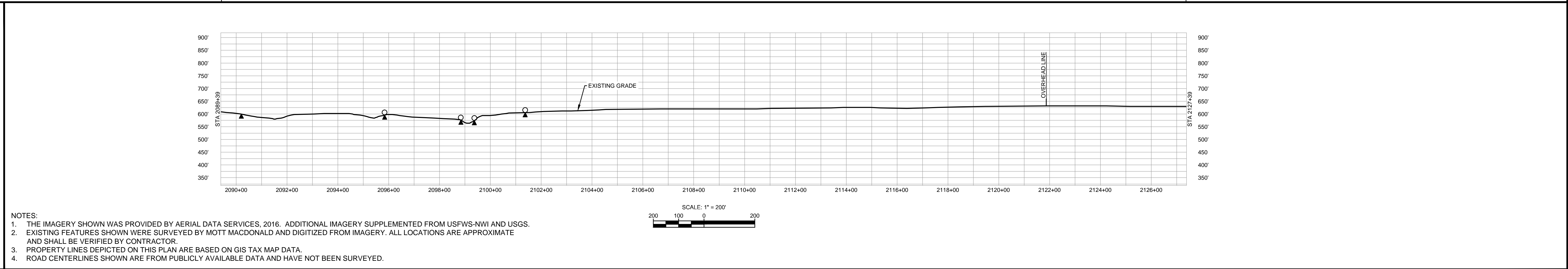
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PERMANENT WATERBAR WITH COMPOST FILTER  
SOCK AT WATERBAR DISCHARGE  
PERMANENT TRENCH PLUG

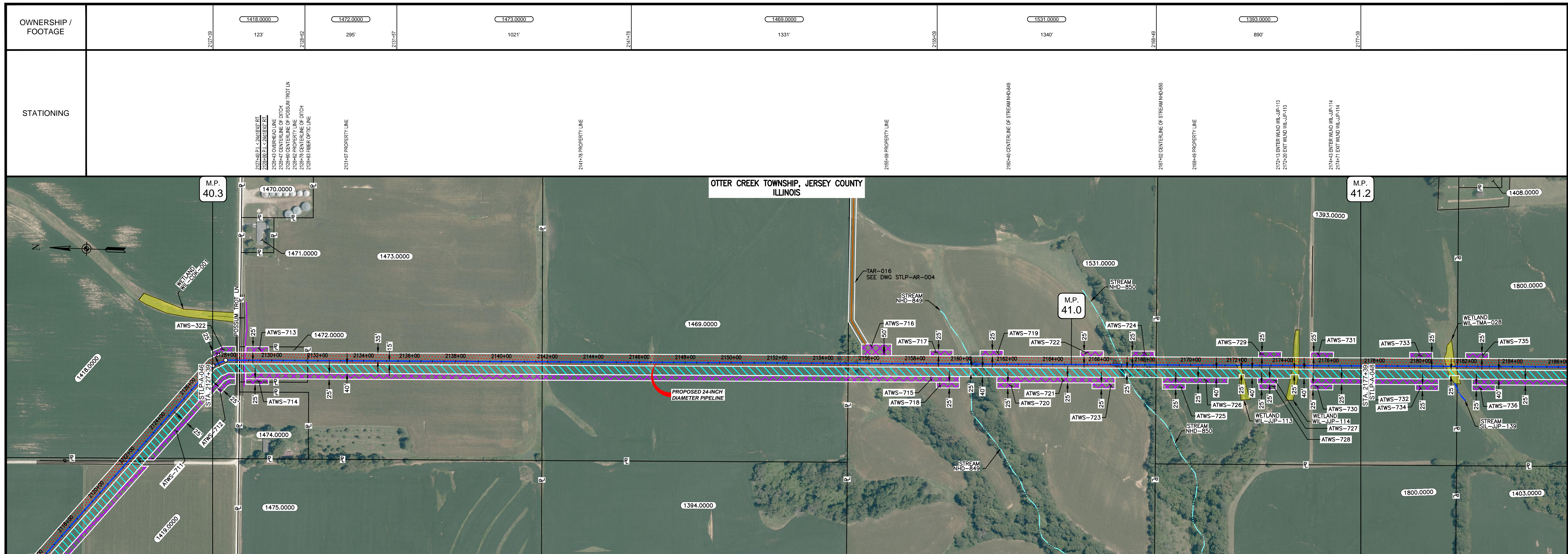
ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

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



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'	SCALE PROFILE H: 1" = 200'	SCALE PROFILE V: 1" = 200'	PREPARED FOR		ALIGNMENT SHEET		
1	3800	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FER	1/2017				SB	1/2017				Spire STL Pipeline		PROPOSED 24-INCH DIAMETER PIPELINE JERSEY COUNTY, ILLINOIS STA. 2089+39 TO STA. 2127+39		
											EB	1/2017				PREPARED BY		SCALE: 1" = 200'		
											DGG	1/2017				MOTT MACDONALD		DRAWING NO. STLPA-046		
											JEV	1/2017						REVISION 1		



CLASS LOCATION/MAOP	CLASS 1 / 1480 PSIG																			
MATERIAL & COATING																				
DESIGN FACTOR	0.72																			
CONSTRUCTION METHOD	OPEN CUT																			
PIPELINE COVER	<table border="1"> <tr> <td>5'</td> <td>3'</td> <td>5'</td> <td>3'</td> <td>5'</td> <td>3'</td> <td>5'</td> <td>3'</td> <td>5'</td> <td>3'</td> </tr> </table>										5'	3'	5'	3'	5'	3'	5'	3'	5'	3'
5'	3'	5'	3'	5'	3'	5'	3'	5'	3'											
SOILS	51A, 61A, 675B, 280D3, 280B, 280C2, 280D3, 280C2, 280D3, 280C2, 280D3, 280C2, 280D3, 280C2, 280D3, 280C2																			
LAND USE																				

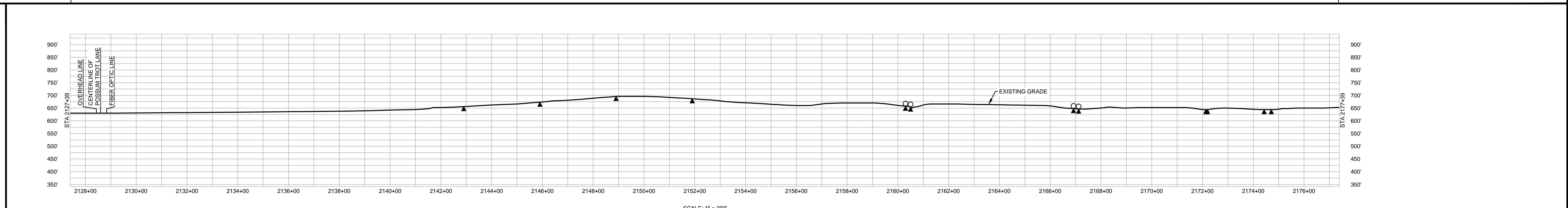
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PERMANENT WATERBAR WITH COMPOST FILTER  
SOCK AT WATERBAR DISCHARGE  
PERMANENT TRENCH PLUG

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

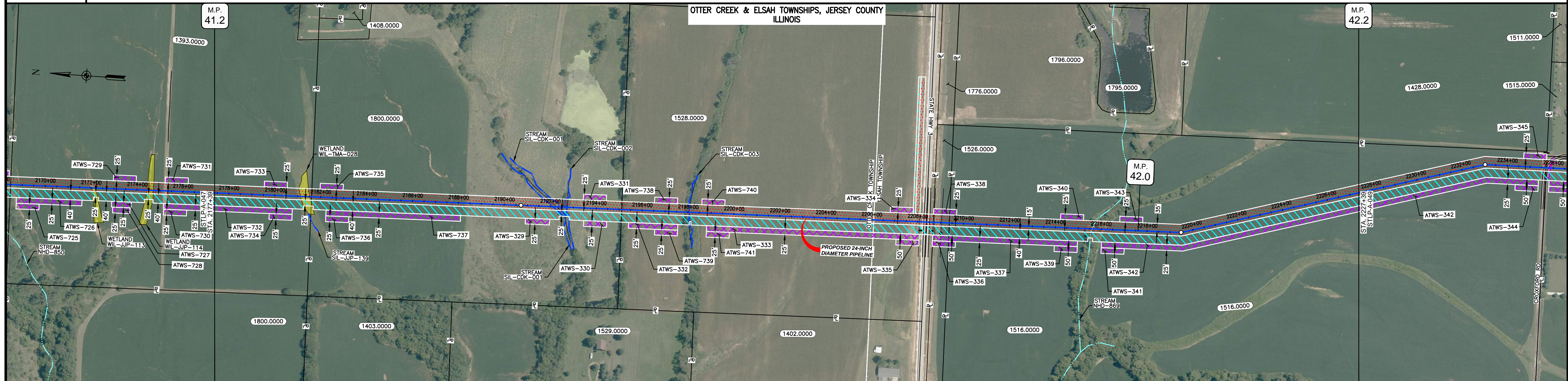
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



- NOTES:
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  - 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'	PREPARED BY	SCALE	DRAWING NO.	REVISION
1	4920	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED	STLP-AR-004	ACCESS ROAD SITE PLAN - TAR-016	1	ISSUE FOR FERC	1/2017				SB	1/2017	SCALE PROFILE H: 1" = 200'				
2	80	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017	SCALE PROFILE V: 1" = 200'				

OWNERSHIP / FOOTAGE	2177+39	1393.0000	421'	2181+60	1800.0000	1351'	2195+11	1528.0000	1326'	2208+37	STATE HWY 3	31'	2208+68	1526.0000	70'	2209+38	1516.0000	1801'	2227+39	
STATIONING	<p>2181+12 ENTER W/NO W/L-TMA-028 2181+43 EXIT W/NO W/L-TMA-028 2181+80 PROPERTY LINE</p> <p>2180+71 E.L. 1400/24/RT</p> <p>2184+11 EDGE OF STREAM SIL-CDK-001 2184+28 CENTERLINE OF DITCH 2184+71 EDGE OF STREAM SIL-CDK-001 2184+75 EDGE OF STREAM SIL-CDK-002 2184+75 CENTERLINE OF DITCH</p> <p>2195+11 PROPERTY LINE</p> <p>2198+00 CENTERLINE OF STREAM SIL-CDK-003 2198+00 CENTERLINE OF DITCH</p> <p>2208+49 OTTER CREEK AND ELSAH MUNICIPALITIES BOUNDARY</p> <p>2208+07 CENTERLINE OF DITCH 2208+27 EDGE OF PAVEMENT 2208+37 PROPERTY LINE 2208+42 CENTERLINE OF STATE HWY 3 2208+43 EDGE OF PAVEMENT 2208+48 PROPERTY LINE 2208+73 CENTERLINE OF DITCH 2208+84 OVERHEAD LINE 2208+87 PROPERTY LINE</p> <p>2214+61 CENTERLINE OF STREAM NH-869</p> <p>2218+48 E.L. 1455/54/51 LT</p>																			



CLASS LOCATION/MAOP CLASS I / 1480 PSIG

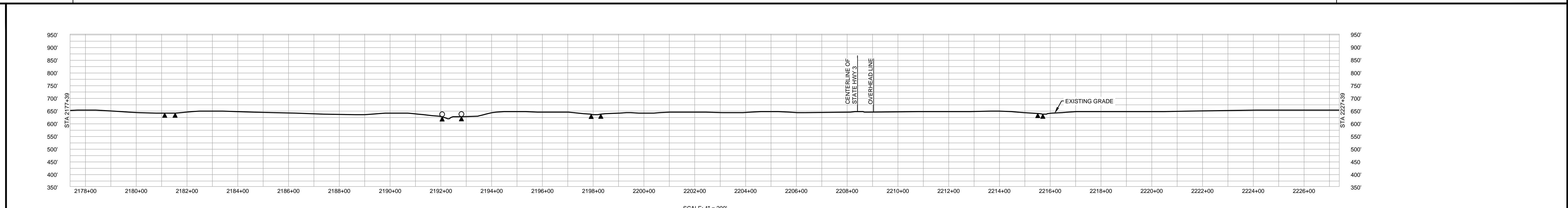
MATERIAL & COATING	2177+39	3062'	①	2208+01	80'	②	2208+81	1858'	①	2227+39								
DESIGN FACTOR	0.72																	
CONSTRUCTION METHOD	OPEN CUT			OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	BORE	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT							
PIPELINE COVER	5'	3'	5'	3'	5'	3'	5'	3'	5'	3'								
SOILS	280C2	279C2	280C2	279C2	280C2	279D3	279B	279C2	279D3	279C2	279B	279C2	279B	279C2	279B	278A	279C2	279B
LAND USE																		

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

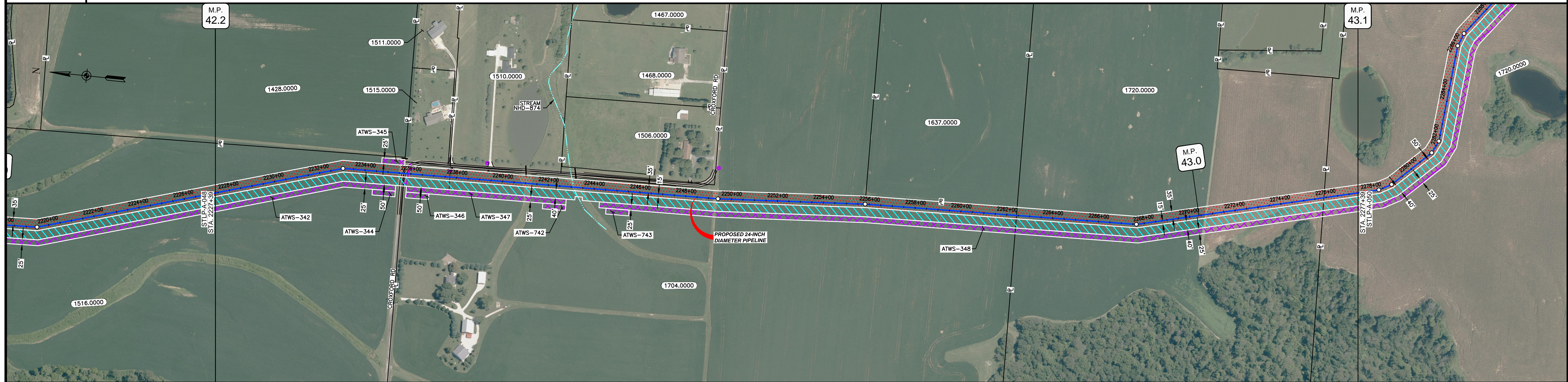


NOTES:  
 1. THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.  
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 3. PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA.  
 4. ROAD CENTERLINES SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN SURVEYED.

MATERIAL			REFERENCE DRAWINGS			REVISIONS				APPROVALS				PREPARED FOR		SPIRE STL PIPELINE PROJECT		
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	CLIENT APPROVAL	DATE	SCALE PLAN: 1" = 200'	ALIGNMENT SHEET		
1	4920	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR PERC	1/2017				SB	1/2017			SCALE PROFILE H: 1" = 200'	PROPOSED 24-INCH DIAMETER PIPELINE		
2	80	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017			SCALE PROFILE V: 1" = 200'	JERSEY COUNTY, ILLINOIS		
											ENG. APPROVAL	DATE				STA. 2177+39 TO STA. 2227+39		
											DGG	1/2017				SCALE	DRAWING NO.	REVISION
											P.M. APPROVAL	DATE			1" = 200'	STLP-A-048	1	
											JEV	1/2017						



OWNERSHIP / FOOTAGE	831'	2672'	1348'	149'
STATIONING	2227+39	2238+70	2252+42	2277+39



CLASS LOCATION/MAOP	CLASS I / 1480 PSIG													
MATERIAL & COATING														
DESIGN FACTOR	0.72					0.72								
CONSTRUCTION METHOD	OPEN CUT					OPEN CUT (FLUMED)								
PIPELINE COVER	5'					5'								
SOILS	279B	61A	279B	279C2	477D3	279C2	477D3	279C2	477C2	279B	278A	477B	477C2	477B
LAND USE														

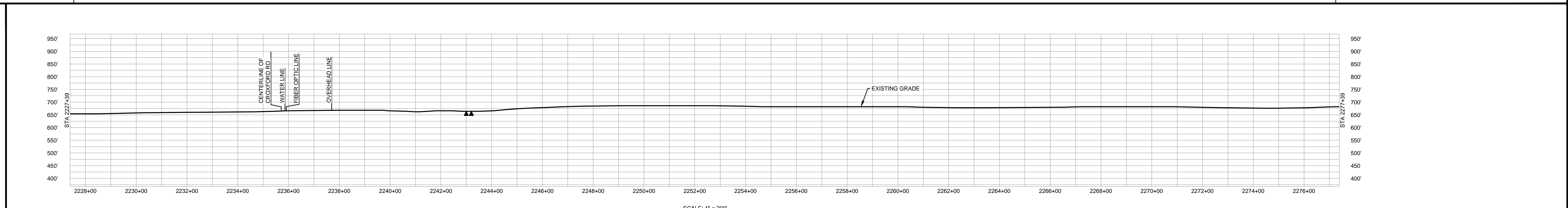
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PERMANENT WATERBAR WITH COMPOST FILTER  
SOOK AT WATERBAR DISCHARGE  
PERMANENT TRENCH PLUG

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

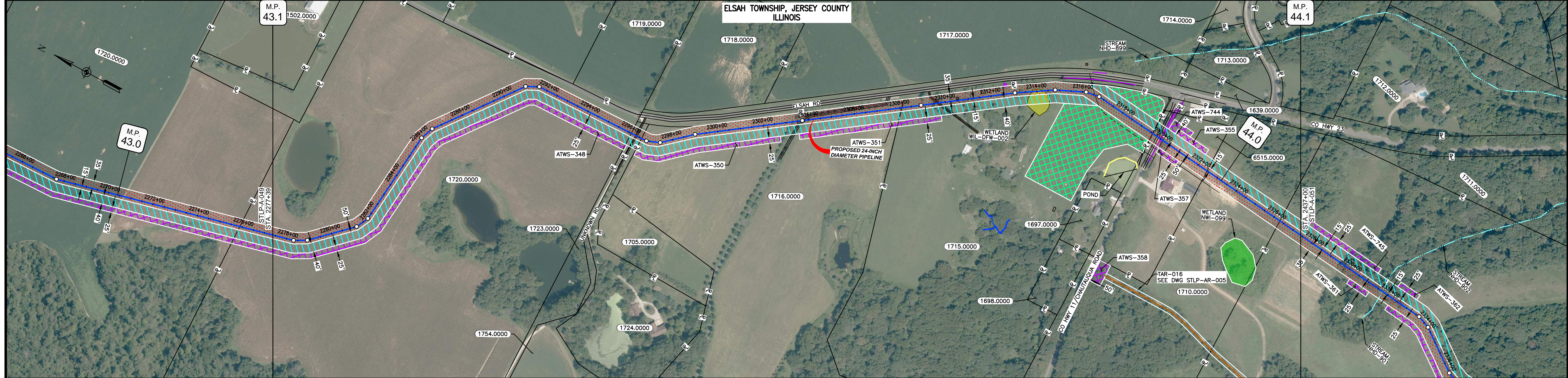
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10 - 15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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MATERIAL		REFERENCE DRAWINGS		REVISIONS				APPROVALS			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'		<b>ALIGNMENT SHEET</b> <b>PROPOSED 24-INCH DIAMETER PIPELINE</b> <b>JERSEY COUNTY, ILLINOIS</b> <b>STA. 2227+39 TO STA. 2277+39</b>		
1	4920	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017				SB	1/2017	SCALE PROFILE H: 1" = 200'				
2	80	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017	SCALE PROFILE V: 1" = 200'				
											ENG. APPROVAL	DATE	CLIENT APPROVAL				
											DGG	1/2017	DATE				
											P.M. APPROVAL	DATE	DATE				
											JEW	1/2017	DATE				
													SCALE		DRAWING NO.	REVISION	
													1" = 200'	STLP-A-049		1	

OWNERSHIP / FOOTAGE	2277.99	1872'	2289.11	20'	2290.31	30'	2298.61	1148'	2309.09	1150'	2319.59	287'	2327.46	384'	2329.59	109'	2327.99
STATIONING	2277.99	2289.11	2290.31	2298.61	2309.09	2319.59	2327.46	2329.59	2330.09	2338.49	2346.36	2354.23	2362.10	2370.00	2377.99	2385.88	2393.77



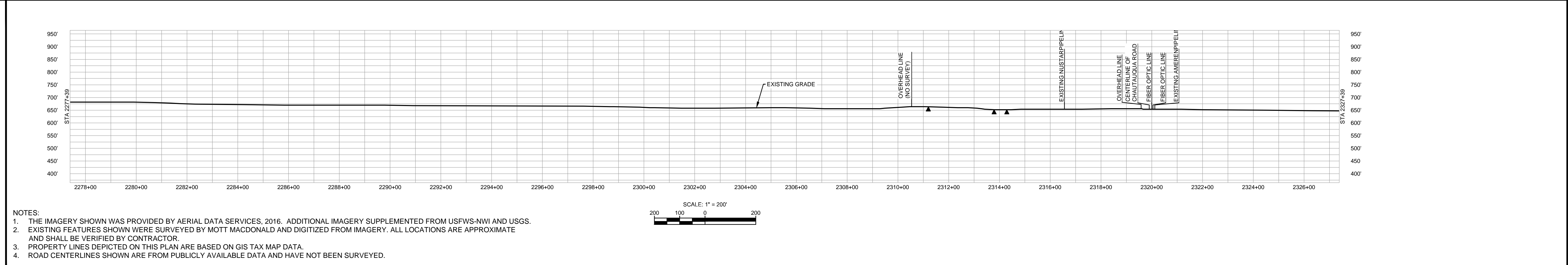
CLASS LOCATION/MAOP	CLASS I / 1480 PSIG	
MATERIAL & COATING	4213' (1)	707' (1)
DESIGN FACTOR	0.72	0.72
CONSTRUCTION METHOD	OPEN CUT	BORE
PIPELINE COVER	5'	3'
SOILS	477B	477C2
LAND USE	477B	477C2

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

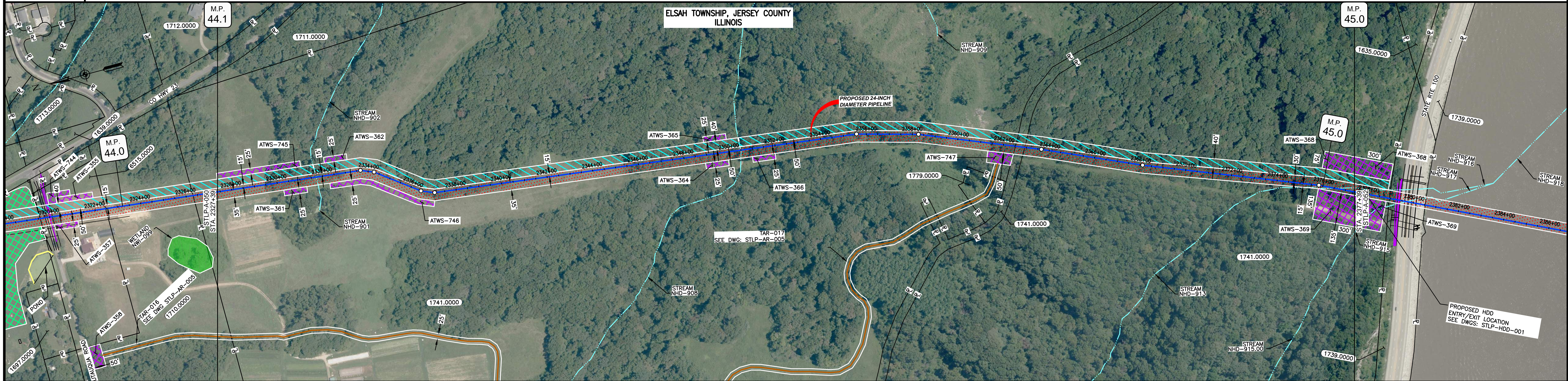
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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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'	PROPOSED 24-INCH DIAMETER PIPELINE JERSEY COUNTY, ILLINOIS STA. 2277+39 TO STA. 2437+00		
1	4920	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED	STLP-AR-005	ACCESS ROAD SITE PLAN - TAR-015	1	ISSUE FOR PERC	1/2017				SB	1/2017				<p>PREPARED BY</p> <p><b>M M</b> MOTT MACDONALD</p>		
2	80	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017				SCALE	DRAWING NO.	REVISION
											ENG. APPROVAL	DATE				1" = 200'	STLP-A-050	1

OWNERSHIP / FOOTAGE		1741.0000	3513'	1741.0000	40'	1741.0000	1447'	1741.0000
STATIONING	2327+39	231172 CENTERLINE OF STREAM NHD-902	2338+06 P.I. L. 156857.1 L.L.	2332+06 P.I. L. 156707.0 L.L.	2338+06 P.I. L. 156857.1 L.L.	2332+06 P.I. L. 156707.0 L.L.	231172 CENTERLINE OF STREAM NHD-902	2327+39



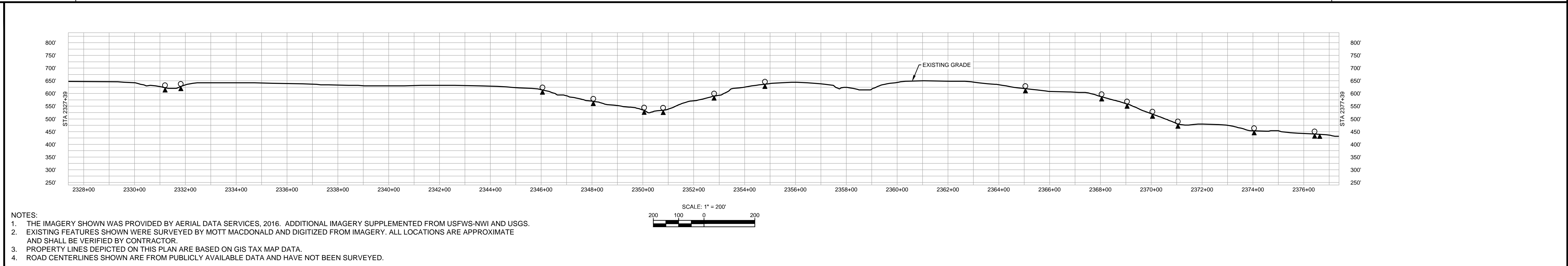
CLASS LOCATION/MAOP	CLASS I / 1480 PSIG										
MATERIAL & COATING	5000'										
DESIGN FACTOR	0.72										
CONSTRUCTION METHOD	OPEN CUT		OPEN CUT (FLUMED)		OPEN CUT			OPEN CUT (FLUMED)		OPEN CUT	
PIPELINE COVER	5'	3'	5'		3'	5'		3'		5'	7'
SOILS	79C2	833G	79C2	833G	79C2	833G	79D2	833G	79D2	833G	3475A
LAND USE											

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

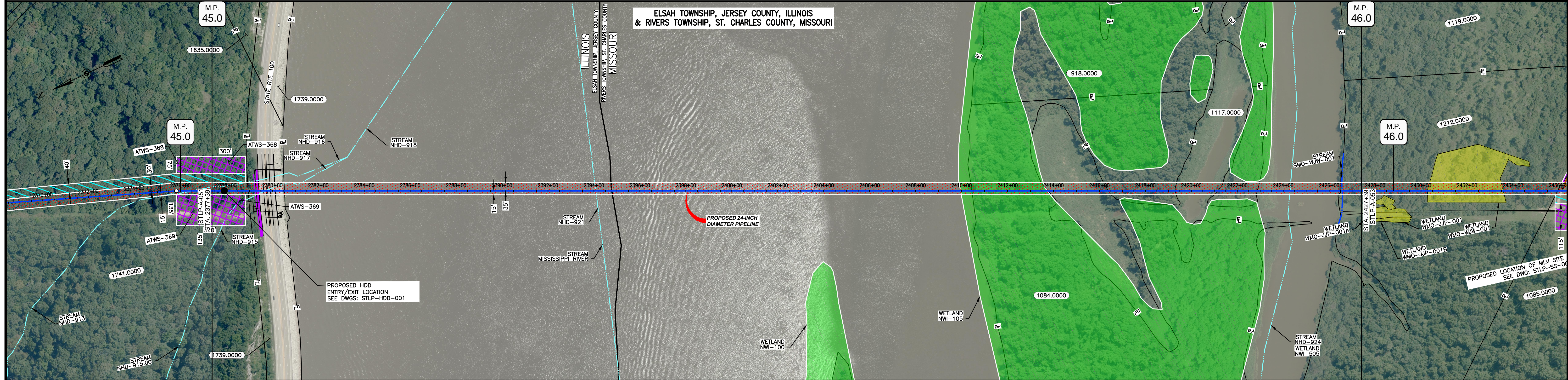
ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15 - 30%	200	200
>30%	100	100

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



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	CLIENT APPROVAL	DATE	SCALE	DRAWING NO.	REVISION
1	5000	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED	STLP-AR-005	ACCESS ROAD SITE PLAN - TAR-017	1	ISSUE FOR FER	1/2017				SB	1/2017			1" = 200'	STLP-A-051	1

OWNERSHIP / FOOTAGE	1741.0000 156'	1739.0000 158'	MISSISSIPPI RIVER 2992'	1084.0000 330'	LUESSE LAKE 264'	1084.0000 291'	LUESSE LAKE 186'	1117.0000 171'	LUESSE LAKE 364'	1212.0000 88'	
STATIONING	2377+99	2379+95	2380+53	2410+45	2413+75	2416+99	2419+50	2421+85	2422+87	2423+51	2427+59



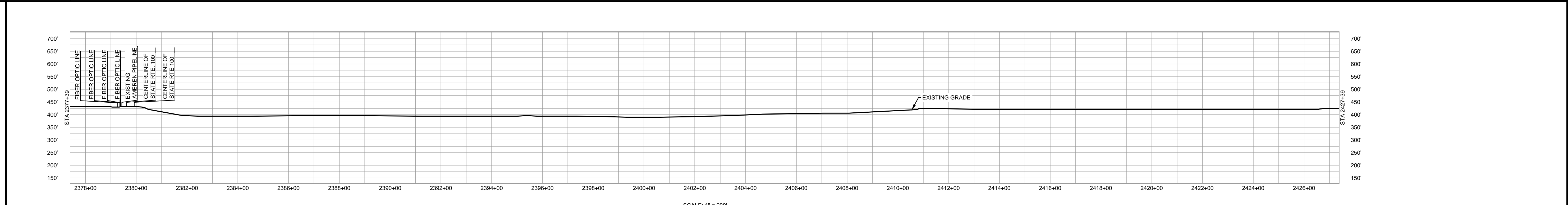
CLASS LOCATION/MAOP	CLASS I / 1480 PSIG	
MATERIAL & COATING	3475A	66066
DESIGN FACTOR	0.72	0.5
CONSTRUCTION METHOD	OPEN CUT	HDD
PIPELINE COVER	7'	
SOILS	W	99001
LAND USE		

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

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

SLOPE	MISSOURI	
	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

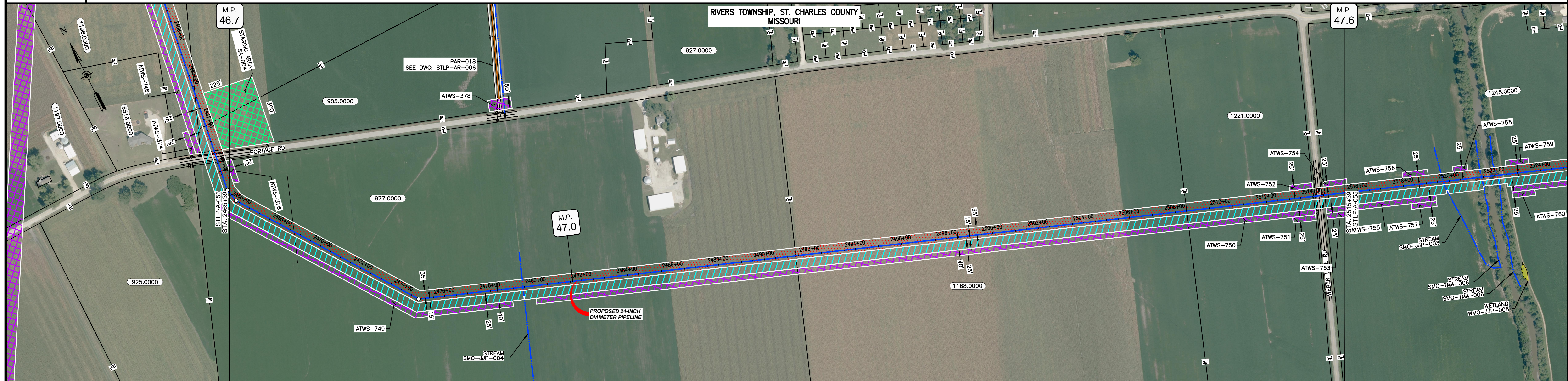


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MATERIAL		REFERENCE DRAWINGS		REVISIONS					APPROVALS		PREPARED FOR		SPIRE STL PIPELINE PROJECT				
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200' SCALE PROFILE H: 1" = 200' SCALE PROFILE V: 1" = 200'		ALIGNMENT SHEET		
1	44	PIPE, 24.000' OD X 0.353' WT, API-5L, X70, DSAW, FBE COATED	STLP-HDD-001	HDD PROFILE OVERVIEW - MISSISSIPPI RIVER MAINLINE	1	ISSUE FOR FERC	1/2017				JC	1/2017			PROPOSED 24-INCH DIAMETER PIPELINE		
2	4956	PIPE, 24.000' OD X 0.353' WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017	JERSEY COUNTY, ILLINOIS & ST. CHARLES COUNTY, MISSOURI				
											ENG. APPROVAL	DATE	CLIENT APPROVAL	PREPARED BY	STA. 2377+39 TO STA. 2427+39		
											DGG	1/2017	DATE		SCALE	DRAWING NO.	REVISION
											JEW	1/2017	DATE		1" = 200'	STLP-A-052	1



OWNERSHIP / FOOTAGE	2465+39	977.0000	2599'	2611+38	1168.0000	1712'	2629+50	1221.0000	556'	2514+05	WEBERLAKE RD	50'	2514+55	1245.0000	83'	2515+39
STATIONING	<p>2465+39</p> <p>2465+39 L=216352' L.L.</p> <p>2469+70 CENTERLINE OF DITCH</p> <p>2472+05 P.L. L=216352' L.L.</p> <p>2474+42 CENTERLINE OF STREAM SMO-JUP-004</p> <p>2481+38</p> <p>2481+38 PROPERTY LINE</p> <p>2509+50 PROPERTY LINE</p> <p>2514+05</p> <p>2514+55</p> <p>2514+55 PROPERTY LINE</p> <p>2514+55 CENTERLINE OF DITCH</p> <p>2514+55 OVERHEAD LINE</p> <p>2514+55 EDGE OF PAVEMENT</p> <p>2514+55 EDGE OF PAVEMENT</p> <p>2514+55 CENTERLINE OF DITCH</p> <p>2514+55 PROPERTY LINE</p>															



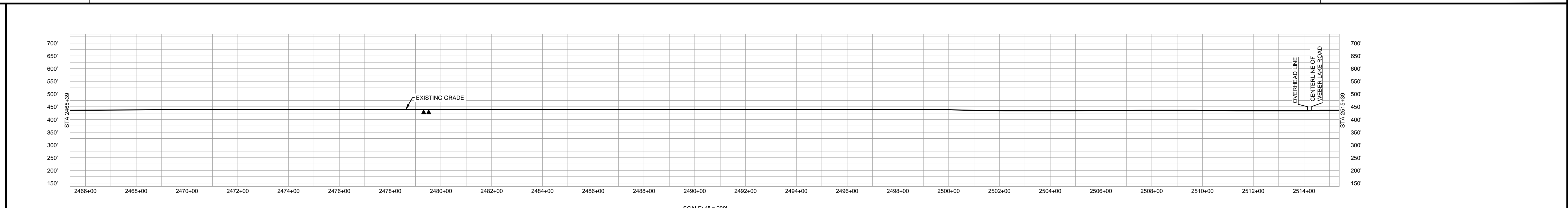
CLASS LOCATION/MAOP	CLASS I / 1480 PSIG																																
MATERIAL & COATING	<table border="1"> <tr> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> <td>2465+39</td> </tr> </table>																2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39
2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39	2465+39																	
DESIGN FACTOR	0.72																																
CONSTRUCTION METHOD	OPEN CUT																																
PIPELINE COVER	7'																																
SOILS	66100																																
LAND USE	66066																																

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

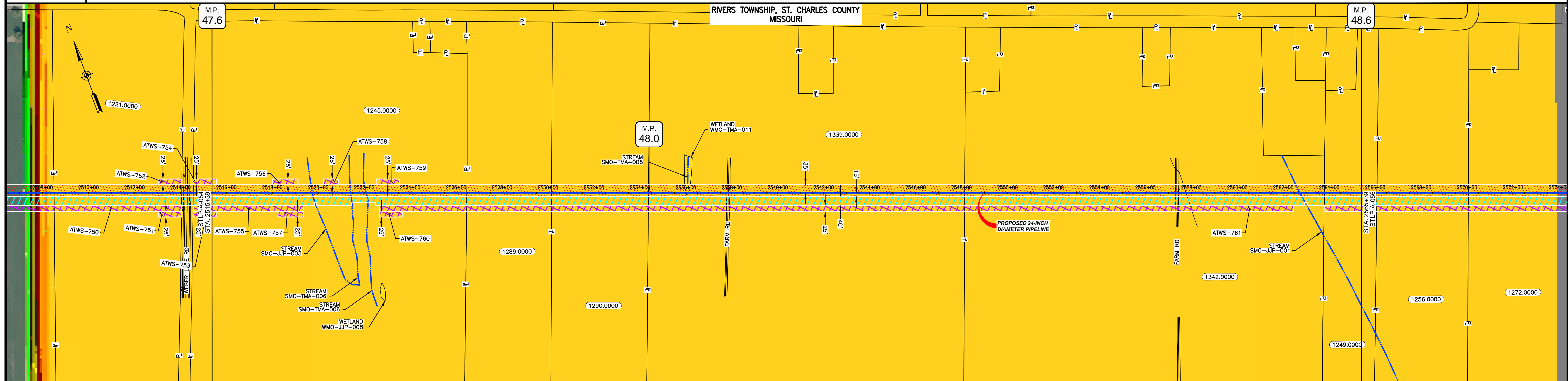
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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  - 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'	Spire STL Pipeline	ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE ST. CHARLES COUNTY, MISSOURI STA. 2465+39 TO STA. 2515+39		
1	4920	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED	STLP-AR-006	ACCESS ROAD SITE PLAN-PAR-018	1	ISSUE FOR FERC	1/2017				JC	1/2017	SCALE PROFILE H: 1" = 200'				
2	80	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017	SCALE PROFILE V: 1" = 200'	PREPARED BY <b>M M</b> MOTT MACDONALD	SCALE: 1" = 200'		
											DGG	1/2017	CLIENT APPROVAL				
											JEV	1/2017	DATE	STLP-A-054	1		

OWNERSHIP / FOOTAGE	1245.0000 1108'	1288.0000 369'	1290.0000 421'	1339.0000 1377'	1342.0000 1565'	1249.0000 160'
STATIONING	2515+99	2528+47	2530+16	2534+37	2549+11	2557+79



CLASS LOCATION/MAOP CLASS 1 / 1480 PSIG

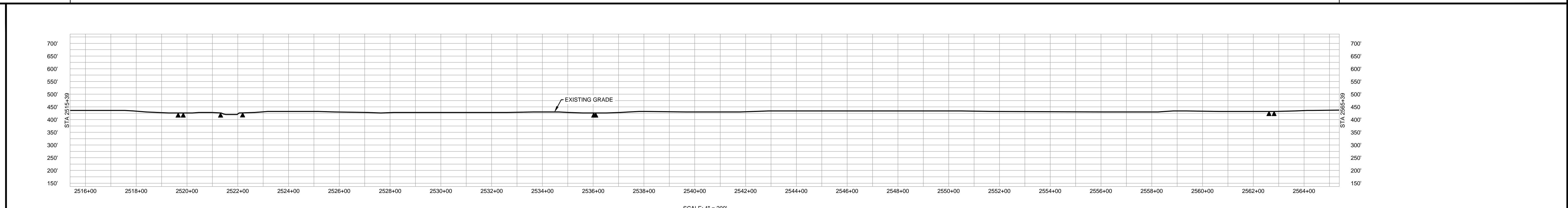
MATERIAL & COATING	5000' (1)											
DESIGN FACTOR	0.72											
CONSTRUCTION METHOD	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT					OPEN CUT (FLUMED)	OPEN CUT	
PIPELINE COVER	7'											
SOILS	66066	64016	64024	64016	64024	64016	64024	64016	64024	66066	64016	66066
LAND USE												

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

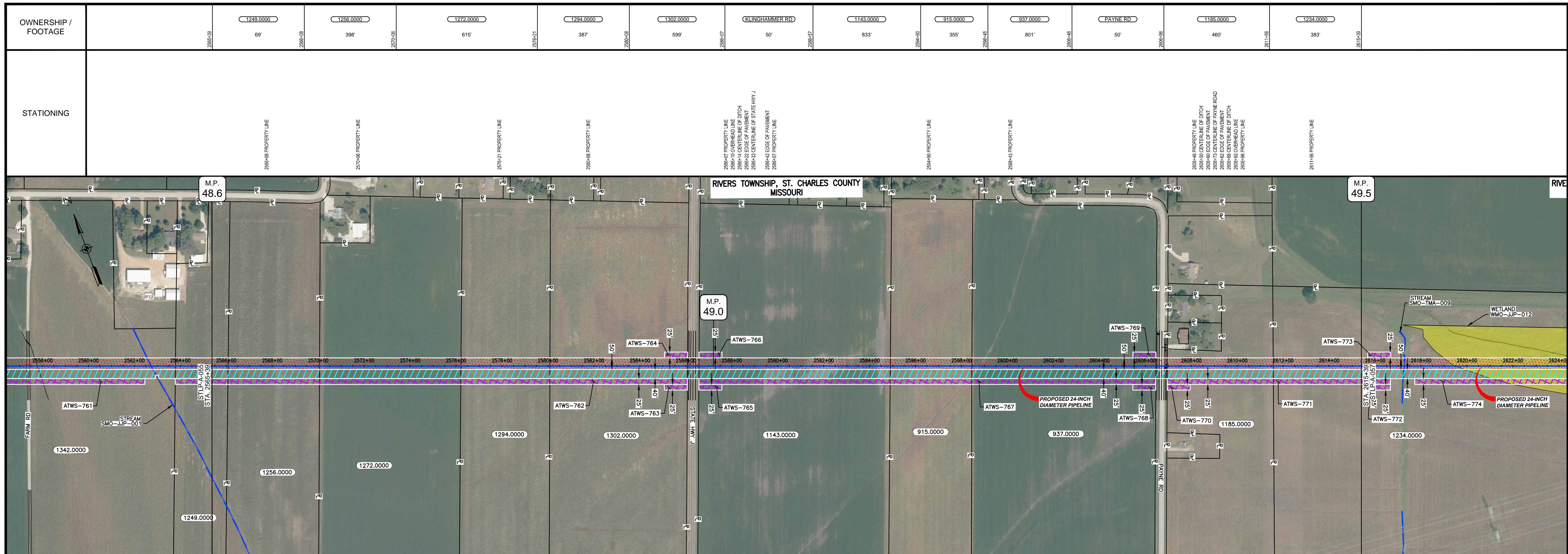
ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

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			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:	ALIGNMENT SHEET		
1	5000	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR PERC	1/2017				JC	1/2017	1" = 200'	1" = 200'	1" = 200'	PROPOSED 24-INCH DIAMETER PIPELINE		
											EB	1/2017				ST. CHARLES COUNTY, MISSOURI		
											DGG	1/2017				STA. 2515+39 TO STA. 2565+39		
											JEV	1/2017				SCALE	DRAWING NO.	REVISION
													1" = 200'	STLP-A-055				1



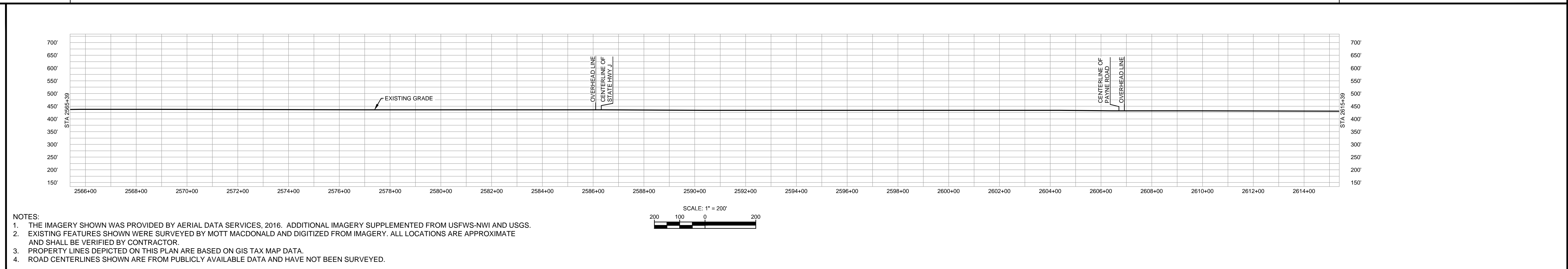
CLASS LOCATION/MAOP	CLASS 1 / 1480 PSIG	
MATERIAL & COATING	2056'	80'
DESIGN FACTOR	0.72	0.6
CONSTRUCTION METHOD	OPEN CUT	BORE
PIPELINE COVER	7'	
SOILS	66066	66100
LAND USE	64024	64016

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



NOTES:

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MATERIAL	REFERENCE DRAWINGS	REVISIONS	APPROVALS
TAG	QUANTITY	DESCRIPTION	DWG. NO.
1	4840	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED	
2	160	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED	

NO.	REVISIONS	DATE	DRAWN	CK	APPR
1	ISSUE FOR FERC	1/2017			

DRAWN BY	DATE	CLIENT APPROVAL
RP	1/2017	
EB	1/2017	
DGG	1/2017	
JEV	1/2017	

SCALE PLAN: 1" = 200'  
SCALE PROFILE H: 1" = 200'  
SCALE PROFILE V: 1" = 200'

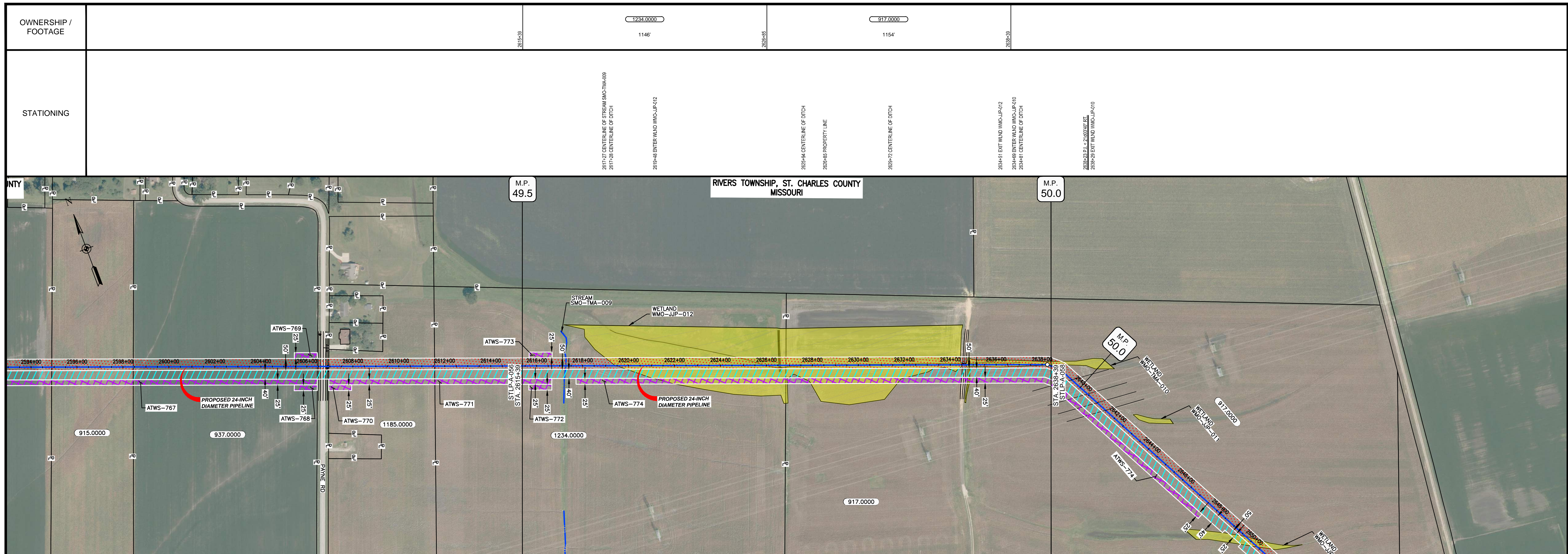
PREPARED FOR: **Spire STL Pipeline**

PREPARED BY: **M M MOTT MACDONALD**

SPIRE STL PIPELINE PROJECT  
ALIGNMENT SHEET  
PROPOSED 24-INCH DIAMETER PIPELINE  
ST. CHARLES COUNTY, MISSOURI  
STA. 2565+39 TO STA. 2615+39

SCALE	DRAWING NO.	REVISION
1" = 200'	STLP-A-056	1



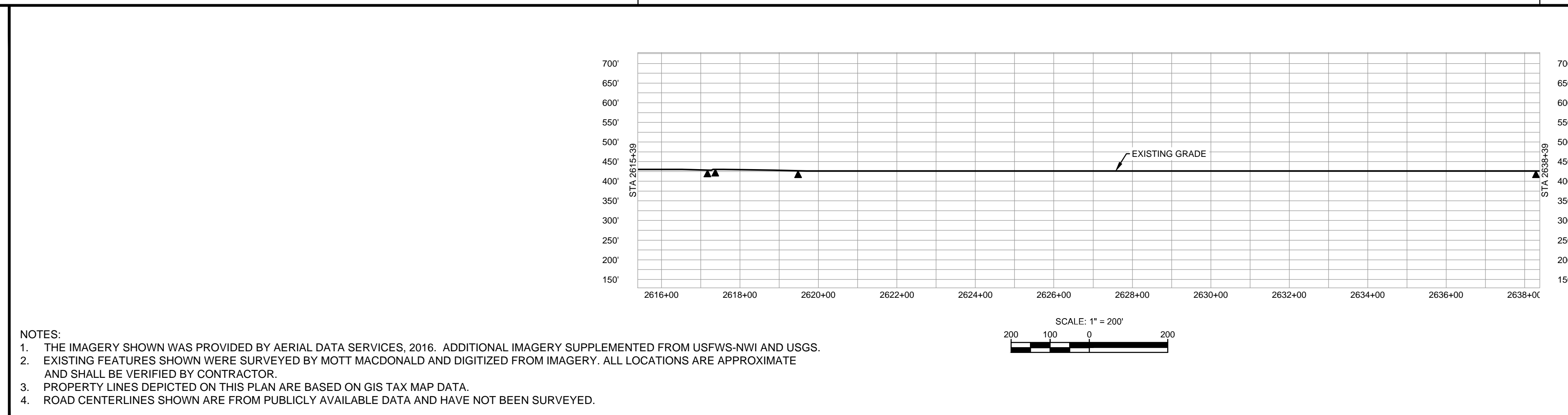


CLASS LOCATION/MAOP	CLASS 1 / 1480 PSIG	
MATERIAL & COATING	2300'	
DESIGN FACTOR	0.72	
CONSTRUCTION METHOD	OPEN CUT	OPEN CUT (FLUMED)
PIPELINE COVER	7'	
SOILS	64016	66100
LAND USE		

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

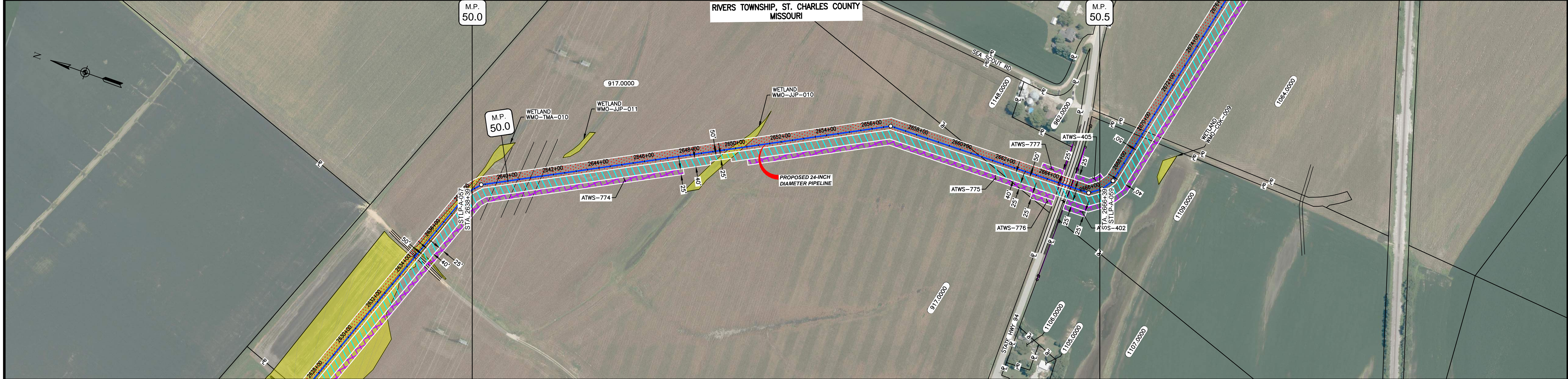


NOTES:

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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'		
1	2300	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR PERC	1/2017				AK	1/2017	SCALE PROFILE V: 1" = 200'	PREPARED BY		
											EB	1/2017	CLIENT APPROVAL			
											DGG	1/2017	PREPARED BY			
											JEW	1/2017	DATE			
											SCALE: 1" = 200' DRAWING NO.: STLPA-057 REVISION: 1					

OWNERSHIP / FOOTAGE		2638+39	917.0000	2254'	2650+00	1148.0000	366'	2654+59	STATE HWY 94	50'	2655+09	1109.0000	130'	2666+39
STATIONING														



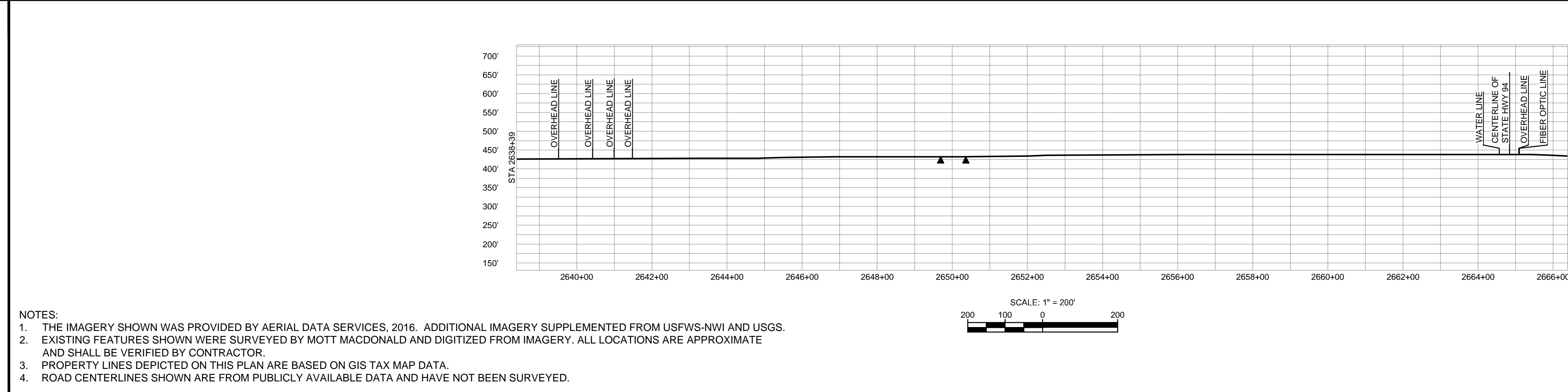
CLASS LOCATION/MAOP	CLASS I / 1480 PSIG																																								
MATERIAL & COATING	<table border="1"> <tr> <td>2638+39</td> <td>2640+00</td> <td>2642+00</td> <td>2644+00</td> <td>2646+00</td> <td>2648+00</td> <td>2650+00</td> <td>2652+00</td> <td>2654+00</td> <td>2656+00</td> <td>2658+00</td> <td>2660+00</td> <td>2662+00</td> <td>2664+00</td> <td>2666+39</td> </tr> <tr> <td colspan="10">1</td> <td colspan="2">2</td> <td colspan="1">1</td> </tr> </table>													2638+39	2640+00	2642+00	2644+00	2646+00	2648+00	2650+00	2652+00	2654+00	2656+00	2658+00	2660+00	2662+00	2664+00	2666+39	1										2		1
2638+39	2640+00	2642+00	2644+00	2646+00	2648+00	2650+00	2652+00	2654+00	2656+00	2658+00	2660+00	2662+00	2664+00	2666+39																											
1										2		1																													
DESIGN FACTOR	0.72																																								
CONSTRUCTION METHOD	OPEN CUT																																								
PIPELINE COVER	7'																																								
SOILS	66066	66100	66066	64016	66100	66066	66100	64016	64024	66019																															
LAND USE																																									

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

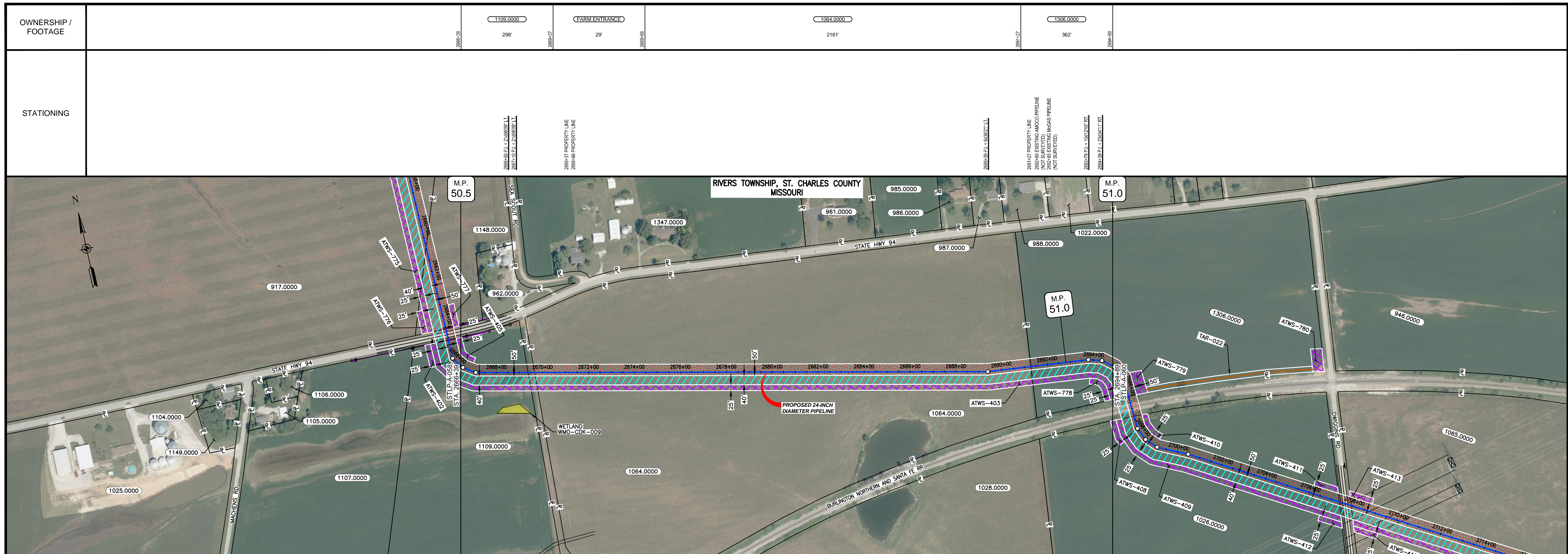
ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

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



NOTES:  
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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'	Spire STL Pipeline	ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE ST. CHARLES COUNTY, MISSOURI STA. 2638+39 TO STA. 2666+39								
1	2720	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FER	1/2017				SB	1/2017	SCALE PROFILE H: 1" = 200'										
2	80	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017	SCALE PROFILE V: 1" = 200'										
											ENG. APPROVAL	DATE	CLIENT APPROVAL	PREPARED BY	<table border="1"> <tr> <td>SCALE</td> <td>DRAWING NO.</td> <td>REVISION</td> </tr> <tr> <td>1" = 200'</td> <td>STLP-A-058</td> <td>1</td> </tr> </table>			SCALE	DRAWING NO.	REVISION	1" = 200'	STLP-A-058	1
SCALE	DRAWING NO.	REVISION																					
1" = 200'	STLP-A-058	1																					
											DGG	1/2017	DATE	<table border="1"> <tr> <td>M</td> <td>M</td> </tr> <tr> <td>MOTT</td> <td>MACDONALD</td> </tr> </table>	M	M	MOTT	MACDONALD					
M	M																						
MOTT	MACDONALD																						
											P.M. APPROVAL	DATE	DATE										
											JEW	1/2017											



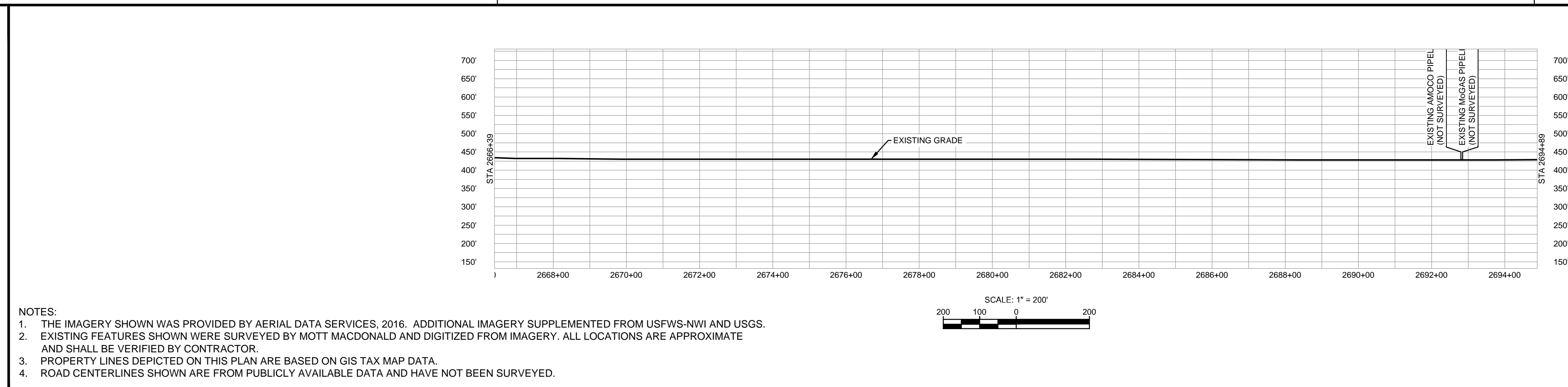
CLASS LOCATION/MAOP	CLASS I / 1480 PSIG
MATERIAL & COATING	2850' (1)
DESIGN FACTOR	0.72
CONSTRUCTION METHOD	OPEN CUT
PIPELINE COVER	7'
SOILS	66019
LAND USE	

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



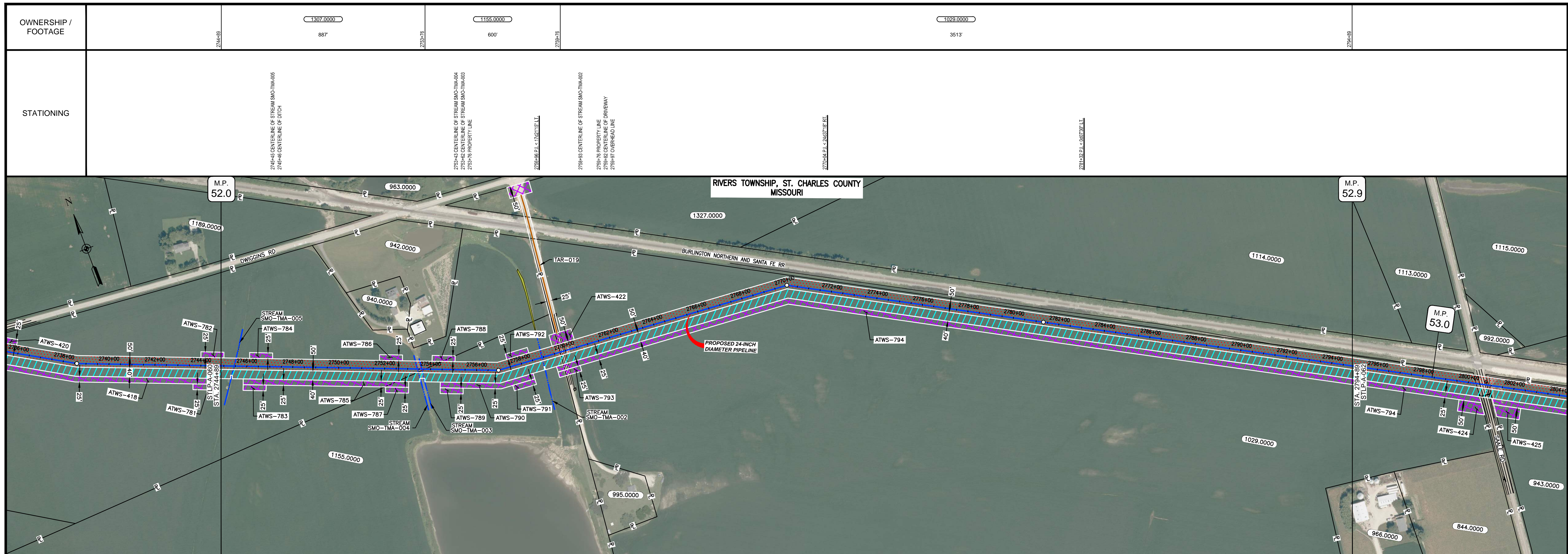
NOTES:  
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MATERIAL			REFERENCE DRAWINGS		REVISIONS					APPROVALS			PREPARED FOR		SPIRE STL PIPELINE PROJECT		
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	CLIENT APPROVAL	DATE	SCALE	DRAWING NO.	REVISION
1	2850	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017				GH	1/2017			1" = 200'	STLP-A-059	1

PREPARED BY: **M M**  
**MOTT MACDONALD**

SCALE: 1" = 200'  
 DRAWING NO.: STLP-A-059  
 REVISION: 1





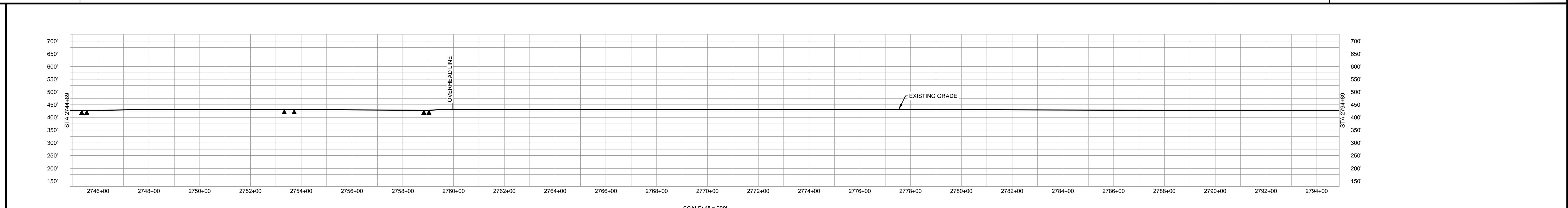
CLASS LOCATION/MAOP	CLASS I / 1480 PSIG					
MATERIAL & COATING	5000' (1)					
DESIGN FACTOR	0.72					
CONSTRUCTION METHOD	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)
PIPELINE COVER	7'					
SOILS	66059	66019			66059	66110
LAND USE						

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

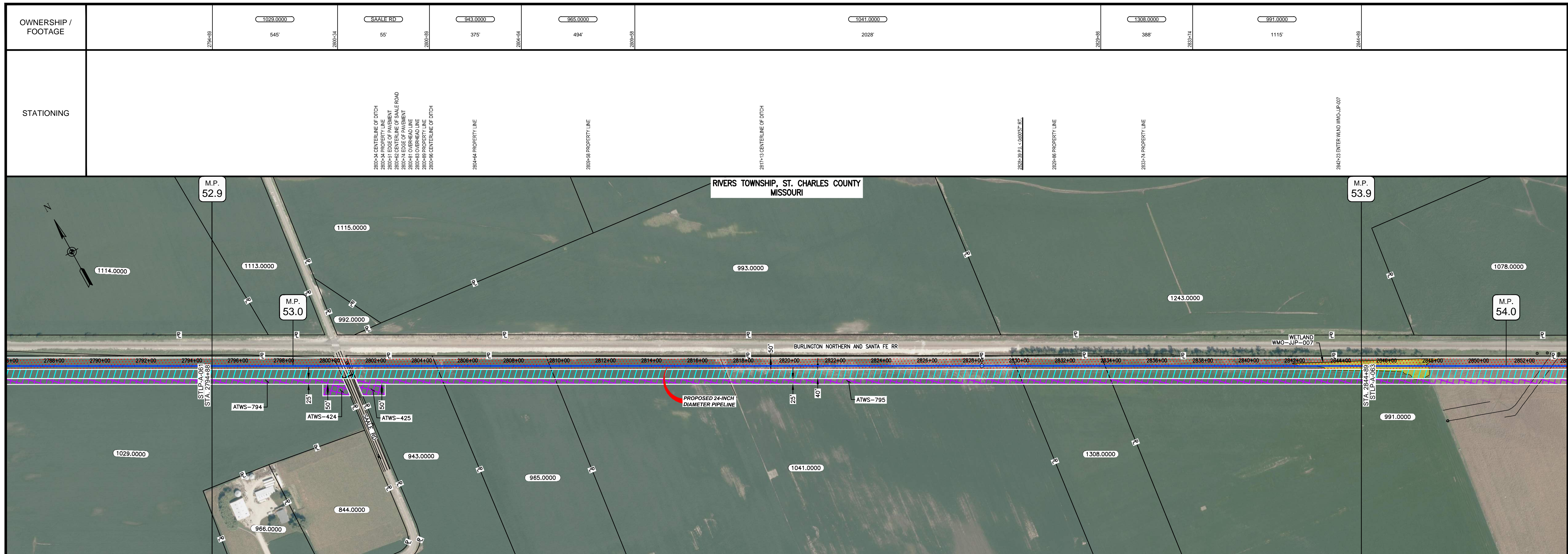
ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15 - 30%	200	200
>30%	100	100

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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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:	PREPARED BY	SCALE PROFILE H:	SCALE PROFILE V:	SCALE	DRAWING NO.	REVISION
1	5000	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FER	1/2017				GH	1/2017	1" = 200'	<b>Spire STL Pipeline</b> <b>M M</b> <b>MOTT MACDONALD</b>	1" = 200'	STLP-A-061	1		
											EB	1/2017	1" = 200'						
											ENG. APPROVAL	DATE	CLIENT APPROVAL						
											DGG	1/2017	DATE						
											P.M. APPROVAL	DATE	DATE						



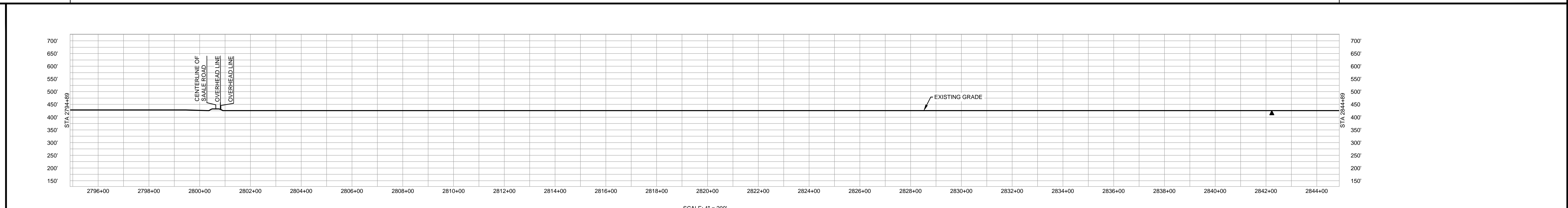
CLASS LOCATION/MAOP	CLASS 1 / 1480 PSIG	
MATERIAL & COATING		
DESIGN FACTOR	0.72	0.6
CONSTRUCTION METHOD	OPEN CUT	
PIPELINE COVER	7'	
SOILS	66110	
LAND USE		

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  
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

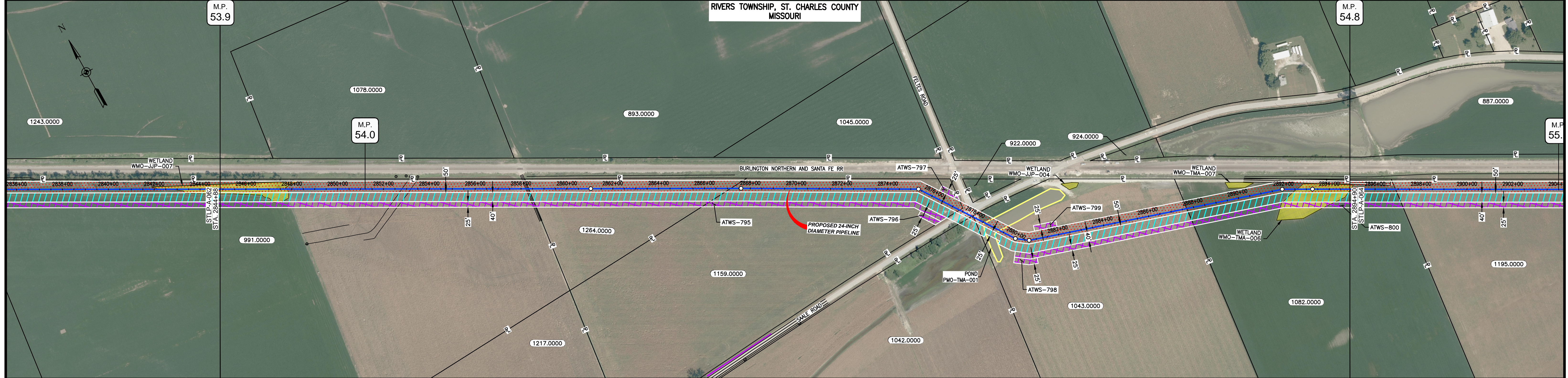


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MATERIAL			REFERENCE DRAWINGS		REVISIONS				APPROVALS			PREPARED FOR		SPIRE STL PIPELINE PROJECT				
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN:	SCALE PROFILE H:	SCALE PROFILE V:	SCALE	DRAWING NO.	REVISION
1	4920	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017				GH	1/2017	1" = 200'	1" = 200'	1" = 200'	1" = 200'	STLP-A-062	1
2	80	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017						
											ENG. APPROVAL	DATE						
											DGG	1/2017						
											P.M. APPROVAL	DATE						
											JEV	1/2017						

OWNERSHIP / FOOTAGE	2844+88	991.0000	1345'	2859+34	1264.0000	881'	2871+15	1159.0000	1021'	2877+98	SAALE RD	59'	2877+95	1042.0000	9'	2879+04	1043.0000	967'	2897+71	1082.0000	718'	2894+88	
STATIONING	<p>2844+88 WMO-JUP-007</p> <p>2852+00 EXISTING EXPLORER OIL PIPELINE (NOT SURVEYED)</p> <p>2852+00 EXISTING KOCE PIPELINE</p> <p>2852+00 EXISTING MUSTAR AMMONIA PIPELINE</p> <p>2859+34 CENTERLINE OF FIELD ROAD</p> <p>2859+34 PROPERTY LINE</p> <p>2864+48 P.L. 182803742 RL</p> <p>2864+50 PROPERTY LINE</p> <p>2864+50 P.L. 182803742 RL</p> <p>2877+95 SAALE RD</p> <p>2877+95 PROPERTY LINE</p> <p>2877+95 P.L. 182803742 RL</p> <p>2879+04 ENTER POND P.M. TMA-001</p> <p>2879+04 P.L. 182803742 RL</p> <p>2879+04 ENTER POND P.M. TMA-001</p> <p>2879+04 P.L. 182803742 RL</p> <p>2897+71 PROPERTY LINE</p> <p>2897+71 P.L. 182803742 RL</p> <p>2897+71 ENTER POND P.M. TMA-008</p> <p>2897+71 P.L. 182803742 RL</p>																						



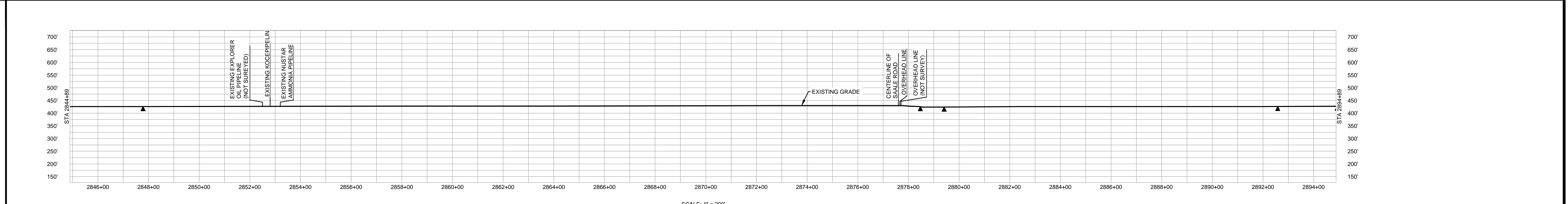
CLASS LOCATION/MAOP	CLASS I / 1480 PSIG				
MATERIAL & COATING	2844+88	3239' (1)	80' (2)	1681' (1)	2894+88
DESIGN FACTOR		0.72	0.6	0.72	
CONSTRUCTION METHOD		OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	
PIPELINE COVER		7'			
SOILS	66110		66019	66110	66019
LAND USE					

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  
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

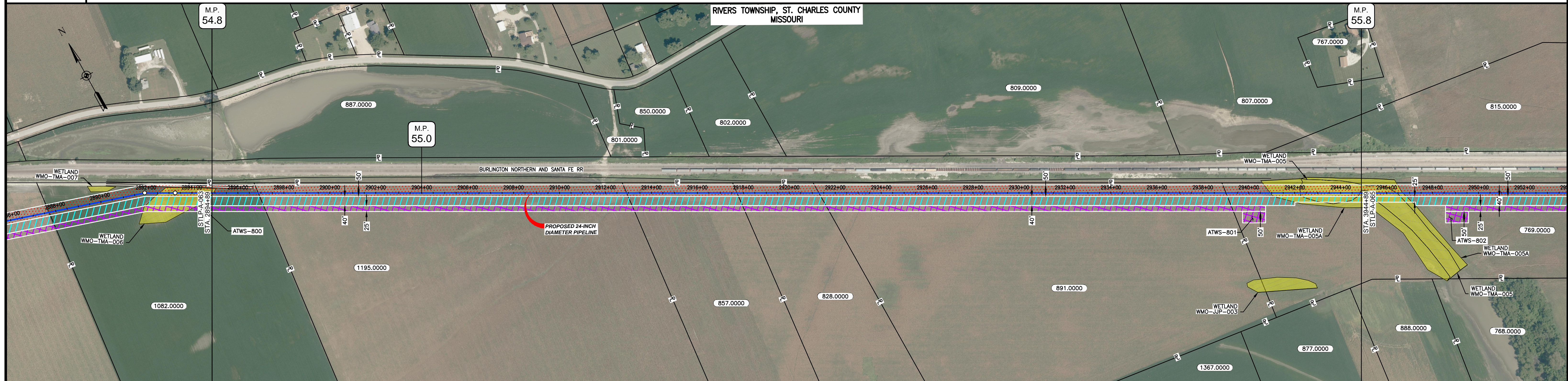
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10 - 15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



- 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			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'		ALIGNMENT SHEET		
1	4920	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017				GH	1/2017	SCALE PROFILE H: 1" = 200'		PROPOSED 24-INCH DIAMETER PIPELINE		
2	80	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017	SCALE PROFILE V: 1" = 200'		ST. CHARLES COUNTY, MISSOURI		
											ENG. APPROVAL	DATE	CLIENT APPROVAL	PREPARED BY	STA. 2844+88 TO STA. 2894+90		
											DGG	1/2017			SCALE	DRAWING NO.	REVISION
											P.M. APPROVAL	DATE			1" = 200'	STLP-A-063	1
											JEV	1/2017					

OWNERSHIP / FOOTAGE	2894+89	1082.0000	200'	2894+89	1195.0000	1603'	2894+89	857.0000	481'	2894+89	828.0000	356'	2894+89	891.0000	1772'	2894+89	769.0000	588'	2894+89
STATIONING	2894+89 EXIT W/WD TMA-006 2894+89 PROPERTY LINE 2912+00 PROPERTY LINE 2917+73 PROPERTY LINE 2921+29 PROPERTY LINE 2929+01 PROPERTY LINE 2940+84 ENTER W/WD TMA-005A 2940+24 EXIT W/WD TMA-005A 2942+24 ENTER W/WD TMA-005 2944+84 EXIT W/WD TMA-005 2944+84 ENTER W/WD TMA-005A																		

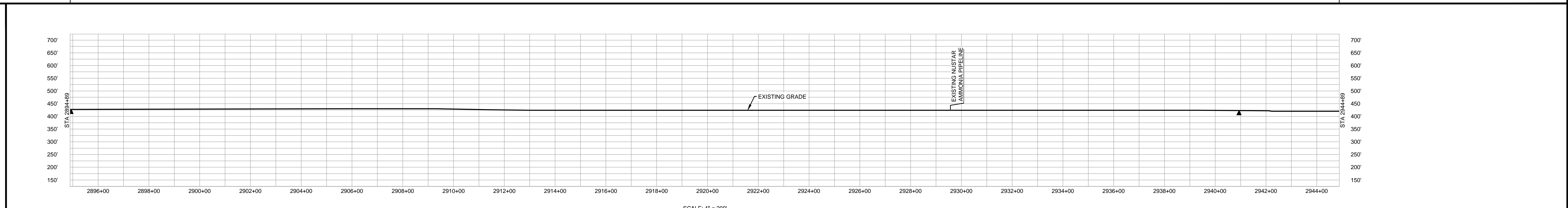


CLASS LOCATION/MAOP	CLASS 1 / 1480 PSIG			
MATERIAL & COATING	5000'			
DESIGN FACTOR	0.72			
CONSTRUCTION METHOD	OPEN CUT			
PIPELINE COVER	7'			
SOILS	66019	66110	13598	66110
LAND USE				

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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

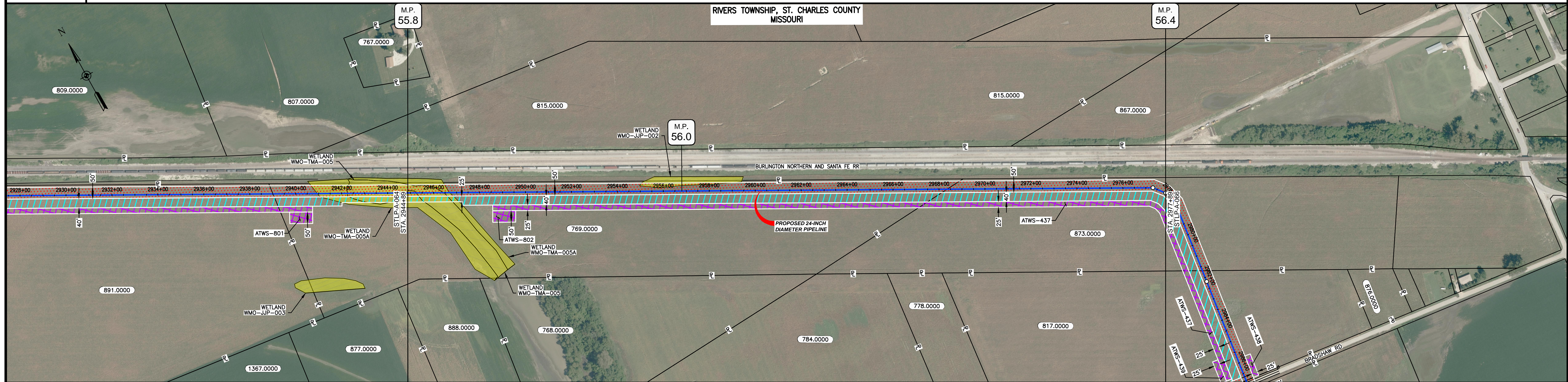


NOTES:  
 1. THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.  
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MATERIAL		REFERENCE DRAWINGS		REVISIONS				APPROVALS				PREPARED FOR		SPIRE STL PIPELINE PROJECT			
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200'	<b>Spire STL Pipeline</b> PREPARED BY <b>M M</b> MOTT MACDONALD	ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE ST. CHARLES COUNTY, MISSOURI STA. 2894+89 TO STA. 3944+89		
1	5000	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR PERC	1/2017				GH	1/2017	SCALE PROFILE H: 1" = 200'		SCALE	DRAWING NO.	REVISION
											EB	1/2017	SCALE PROFILE V: 1" = 200'	1" = 200'	STLP-A-064	1	
											ENG. APPROVAL	DATE	CLIENT APPROVAL				
											DGG	1/2017	DATE				
											P.M. APPROVAL	DATE					
											JEV	1/2017					



OWNERSHIP / FOOTAGE		769.0000	2346'	873.0000	954'
STATIONING		2944+89		2977+89	



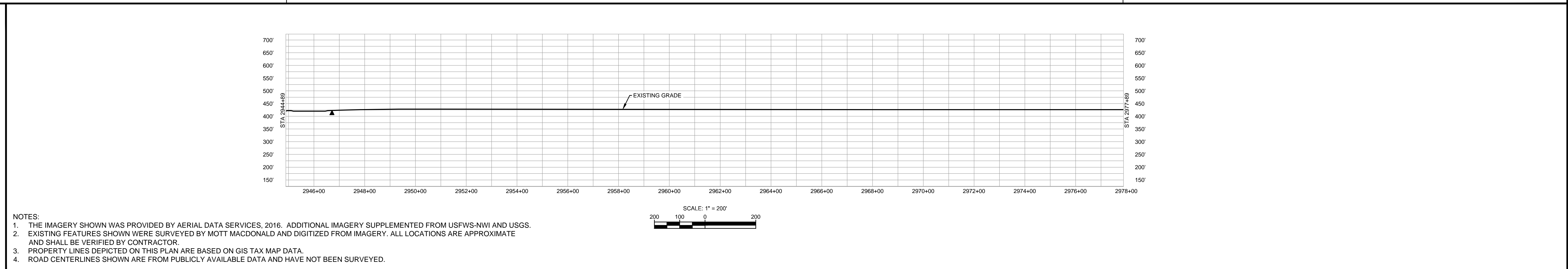
CLASS LOCATION/MAOP	CLASS I / 1480 PSIG		
MATERIAL & COATING	3300'		
DESIGN FACTOR	0.72		
CONSTRUCTION METHOD	OPEN CUT		
PIPELINE COVER	7'		
SOILS	66110	13598	66019
LAND USE			

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

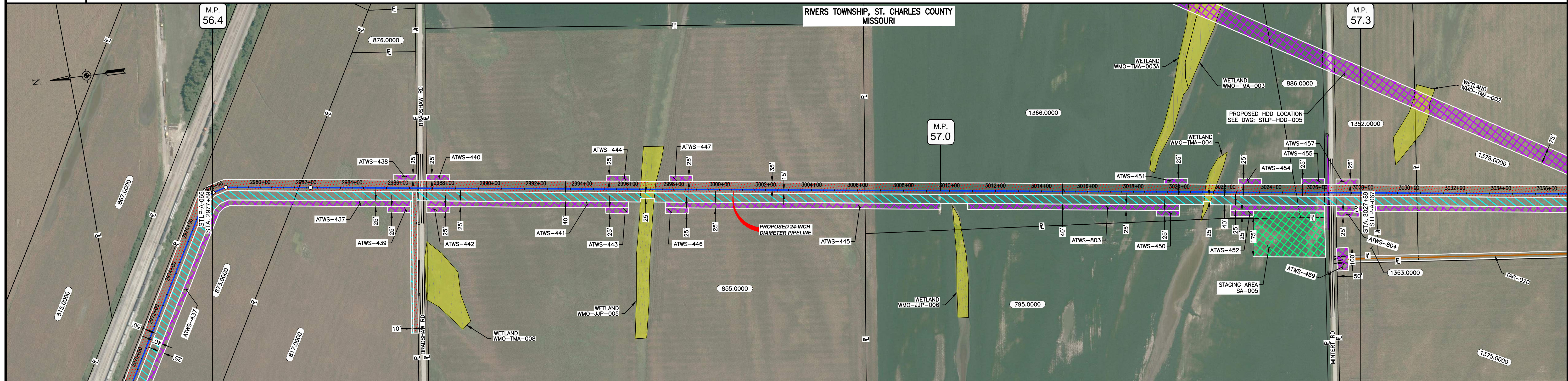
ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15 - 30%	200	200
>30%	100	100

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



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	DATE	DATE	SCALE PLAN:	SCALE PROFILE H:	SCALE PROFILE V:	
1	3300	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017				GH	1/2017			1" = 200'	1" = 200'	1" = 200'	
											EB	1/2017						
											ENG. APPROVAL	DATE						
											DGG	1/2017						
											P.M. APPROVAL	DATE						
											JEV	1/2017						

OWNERSHIP / FOOTAGE	873.0000	817.0000	BRADSHAW RD	855.0000	1366.0000	886.0000	MINTERTY RD	1352.0000	
	379'	514'	43'	1907'	1877'	124'	50'	106'	
STATIONING	2977+89	2981+98	2984+82	2987+25	3002+52	3025+09	3028+83	3029+43	3027+89
	2977+89 P.L. 2981+98 E.L. 2984+82	2981+98 P.L. 2984+82 E.L. 2987+25	2984+82 P.L. 2987+25 E.L. 2987+25	2987+25 P.L. 2994+00 E.L. 2994+00	2994+00 P.L. 3002+52 E.L. 3002+52	3002+52 P.L. 3009+00 E.L. 3009+00	3009+00 P.L. 3012+00 E.L. 3012+00	3012+00 P.L. 3025+09 E.L. 3025+09	3025+09 P.L. 3027+89 E.L. 3027+89



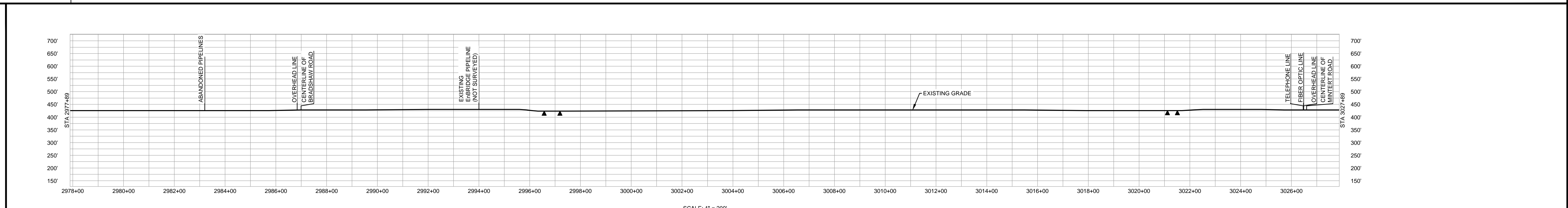
CLASS LOCATION/MAOP	CLASS 1 / 1480 PSIG										
MATERIAL & COATING	2977+89	2986+66	2987+46	3025+45	3027+45	3027+89					
DESIGN FACTOR	0.72	0.6		0.6	0.72						
CONSTRUCTION METHOD	OPEN CUT										
PIPELINE COVER	7'										
SOILS	66019	36023	66019	36023	66059	66019	66059	66019	66059	66019	66059
LAND USE											

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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

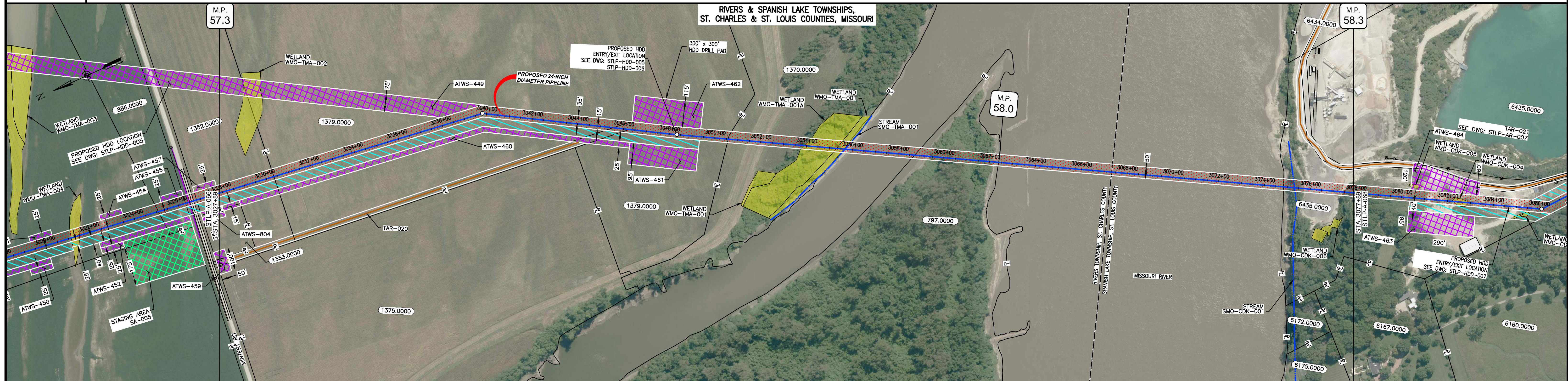
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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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'	MOTT MACDONALD	PROPOSED 24-INCH DIAMETER PIPELINE ST. CHARLES COUNTY, MISSOURI STA. 2977+89 TO STA. 3027+89		
1	4840	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED	STLP-HDD-005	HDD PROFILE OVERVIEW - MISSOURI RIVER MAINLINE	1	ISSUE FOR FER	1/2017				GH	1/2017	SCALE PROFILE H: 1" = 200'				
2	160	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED									EB	1/2017	SCALE PROFILE V: 1" = 200'				
											ENG. APPROVAL	DATE	CLIENT APPROVAL				
											DGG	1/2017	DATE				
											P.M. APPROVAL	DATE					
											JEV	1/2017					

OWNERSHIP / FOOTAGE	3027+89	1352.0000	245'	3030+34	1379.0000	2024'	3050+58	1370.0000	507'	3052+65	MISSOURI RIVER	307'	797.0000	367'	3052+98	MISSOURI RIVER	1244'	3074+83	6435.0000	306'	3077+89	
STATIONING	<p>3030+34 PROPERTY LINE</p> <p>3030+43 P.L. 2.2500' P.F. RT.</p> <p>3050+58 PROPERTY LINE</p> <p>3050+64 P.L. 1.4000' P.F. LT.</p> <p>3050+68 PROPERTY LINE</p> <p>3050+72 PROPERTY LINE</p> <p>3052+98 PROPERTY LINE</p> <p>3052+98 ENTER WIND WMO-TMA-001A</p> <p>3052+91 EXIT WIND WMO-TMA-001A</p> <p>3052+91 ENTER WIND WMO-TMA-001A</p> <p>3052+87 EDGE OF STREAM SMO-TMA-001</p> <p>3052+87 EXIT WIND WMO-TMA-001A</p> <p>3052+98 PROPERTY LINE</p> <p>3052+98 PROPERTY LINE</p> <p>3052+98 ST. CHARLES AND ST. LOUIS COUNTY BOUNDARY</p> <p>3052+98 RIVERS AND SPANISH LAKE MUNICIPALITIES BOUNDARY</p> <p>3074+83 PROPERTY LINE</p> <p>3074+82 EDGE OF STREAM SMO-CDK-001</p>																					



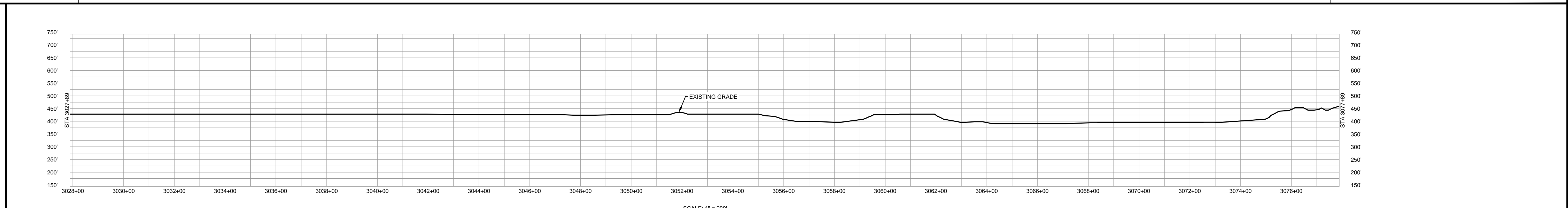
CLASS LOCATION/MAOP	CLASS I / 1480 PSIG																					
MATERIAL & COATING	<p>3027+89</p> <p>1997 (1)</p> <p>3003' (2)</p> <p>3077+89</p>																					
DESIGN FACTOR	0.72											0.5										
CONSTRUCTION METHOD	OPEN CUT											HDD										
PIPELINE COVER	5'																					
SOILS	66059, 66019, 66059, 66019, 66059, 66019, 66059, 66019, 66059, 66012, 99001, 66126, 99001, 99000																					
LAND USE																						

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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

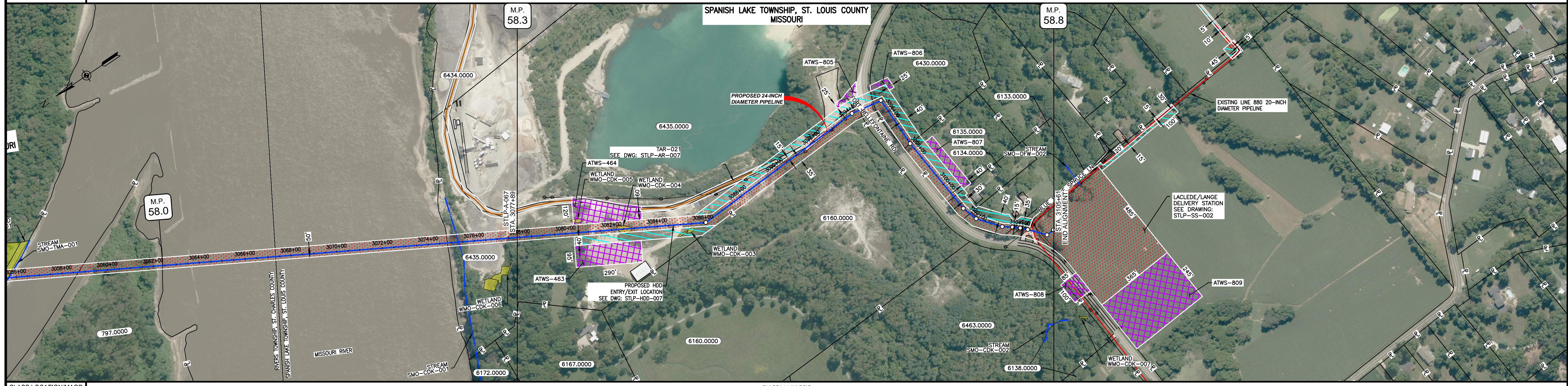
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10 - 15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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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:	SCALE PROFILE H:	SCALE PROFILE V:	PREPARED FOR		SPIRE STL PIPELINE PROJECT		
1	1997	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED	STLP-HDD-005	HDD PROFILE OVERVIEW - MISSOURI RIVER MAINLINE	1	ISSUE FOR FERC	1/2017				GH	1/2017	1" = 200'	11" = 200'	11" = 200'	Spire STL Pipeline		ALIGNMENT SHEET		
2	3003	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED	STLP-HDD-006	HDD PROFILE OVERVIEW - MISSOURI RIVER MAINLINE							EB	1/2017				PREPARED BY		PROPOSED 24-INCH DIAMETER PIPELINE		
											ENG. APPROVAL	DATE				MOTT MACDONALD		ST. CHARLES AND ST. LOUIS COUNTIES, MISSOURI		
											DGG	1/2017						STA. 3027+89 TO STA. 3077+89		
											P.M. APPROVAL	DATE						SCALE		
											JEV	1/2017						DRAWING NO.		
																		REVISION		
																		1" = 200'		
																		STLP-A-067		
																		1		

OWNERSHIP / FOOTAGE		6435.0000	6430.0000	6135.0000	6134.0000	6133.0000	6433.0000	6484.0000
	3077+89	1654'	263'	300'	101'	206'	27'	156'
STATIONING		3077+89	3084+43	3092+07	3099+71	3107+35	3114+99	3122+63
		3092+05 ENTER W/LND WMO-CDK-004	3092+86 EXIT W/LND WMO-CDK-004	3092+05 P1 L-58023E-21	3092+81 OVERHEAD LINE	3092+81 OVERHEAD LINE	3092+81 OVERHEAD LINE	3092+81 OVERHEAD LINE
				3094+43 PROPERTY LINE	3094+43 CENTERLINE OF BELLEFONTAINE ROAD	3094+43 PROPERTY LINE	3094+43 PROPERTY LINE	3094+43 PROPERTY LINE
				3094+43 P1 L-86047E-21	3094+43 OVERHEAD LINE	3094+43 OVERHEAD LINE	3094+43 OVERHEAD LINE	3094+43 OVERHEAD LINE
				3097+71 PROPERTY LINE	3097+71 P1 L-58023E-21	3100+71 PROPERTY LINE	3100+71 PROPERTY LINE	3100+71 PROPERTY LINE
				3100+71 P1 L-58023E-21	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE
				3100+71 PROPERTY LINE	3100+71 P1 L-21032E-21	3100+71 PROPERTY LINE	3100+71 PROPERTY LINE	3100+71 PROPERTY LINE
				3100+71 P1 L-21032E-21	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE
				3100+71 PROPERTY LINE	3100+71 P1 L-58023E-21	3100+71 PROPERTY LINE	3100+71 PROPERTY LINE	3100+71 PROPERTY LINE
				3100+71 P1 L-58023E-21	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE
				3100+71 PROPERTY LINE	3100+71 P1 L-58023E-21	3100+71 PROPERTY LINE	3100+71 PROPERTY LINE	3100+71 PROPERTY LINE
				3100+71 P1 L-58023E-21	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE	3100+71 OVERHEAD LINE

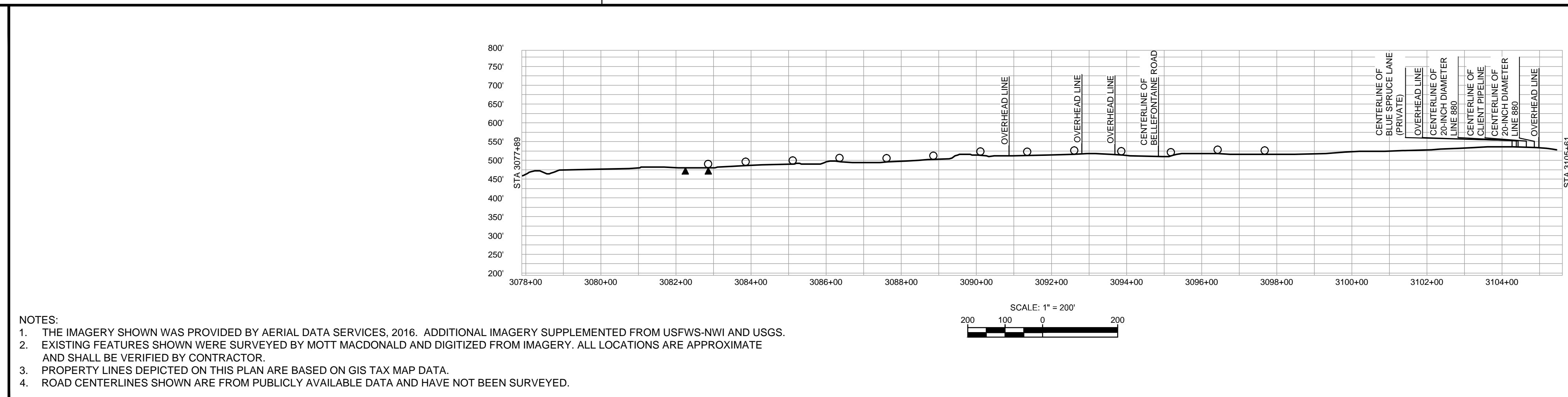


CLASS LOCATION/MAOP								
MATERIAL & COATING								
DESIGN FACTOR								
CONSTRUCTION METHOD								
PIPELINE COVER								
SOILS								
LAND USE								

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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TAG	QUANTITY	MATERIAL	DESCRIPTION	DWG. NO.	REFERENCE DRAWINGS	NO.	REVISIONS	DATE	DRAWN	CK	APPR
1	2225	PIPE, 24.000" OD X 0.353" WT, API-5L, X70, DSAW, FBE COATED		STLP-HDD-007	HDD PROFILE OVERVIEW - MISSOURI RIVER MAINLINE	1	ISSUE FOR FERC	1/2017			
2	547	PIPE, 24.000" OD X 0.508" WT, API-5L, X70, DSAW, FBE/ARO COATED		STLP-AR-007	ACCESS ROAD SITE PLAN - TAR-021						
				STLP-SS-002	LACLEDE/LANGE DELIVERY STATION - SITE LAYOUT						

<p>SCALE PLAN: 1" = 200'</p> <p>SCALE PROFILE H: 1" = 200'</p> <p>SCALE PROFILE V: 1" = 200'</p>		<p>PREPARED FOR</p> <p><b>Spire STL Pipeline</b></p>	<p>SPIRE STL PIPELINE PROJECT</p> <p>ALIGNMENT SHEET</p> <p>PROPOSED 24-INCH DIAMETER PIPELINE</p> <p>ST. LOUIS COUNTY, MISSOURI</p> <p>STA. 3077+89 TO STA. 3105+61</p>																
<p>APPROVALS</p> <table border="1"> <tr> <th>DRAWN BY</th> <th>DATE</th> </tr> <tr> <td>GH</td> <td>1/2017</td> </tr> <tr> <th>CHECKED BY</th> <th>DATE</th> </tr> <tr> <td>EB</td> <td>1/2017</td> </tr> <tr> <th>ENG. APPROVAL</th> <th>DATE</th> </tr> <tr> <td>DGG</td> <td>1/2017</td> </tr> <tr> <th>P.M. APPROVAL</th> <th>DATE</th> </tr> <tr> <td>JEV</td> <td>1/2017</td> </tr> </table>		DRAWN BY	DATE	GH	1/2017	CHECKED BY	DATE	EB	1/2017	ENG. APPROVAL	DATE	DGG	1/2017	P.M. APPROVAL	DATE	JEV	1/2017	<p>CLIENT APPROVAL</p> <p>DATE</p>	<p>PREPARED BY</p> <p><b>M M</b></p> <p>MOTT MACDONALD</p>
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<p>SCALE: 1" = 200'</p>		<p>DRAWING NO.</p> <p>STLP-A-068</p>	<p>REVISION</p> <p>1</p>																