



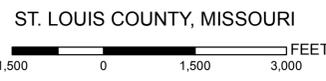
1	MILE POST		HIGHWAY		STLP-A-1001 ALIGNMENT SHEET INDEX PAGE NO.		LANDMARK
	PROPOSED M&R FACILITY		MAJOR ROAD		ALIGNMENT SHEET INDEX		WATERBODY
	PROPOSED 24-INCH NORTH COUNTY EXTENSION		LOCAL ROAD		CITY AREA		COUNTY BOUNDARY
			RAILROAD		PARK		STATE BOUNDARY

MAPS COMPILED UTILIZING ESRI BASEMAP.

SPIRE STL PIPELINE PROJECT

ALIGNMENT SHEET INDEX

PROPOSED 24-INCH NORTH COUNTY EXTENSION



ABSOLUTE SCALE:
1:18,000

REFERENCE SCALE:
1 IN = 1,500 FEET

PREPARED FOR

Spire STL Pipeline

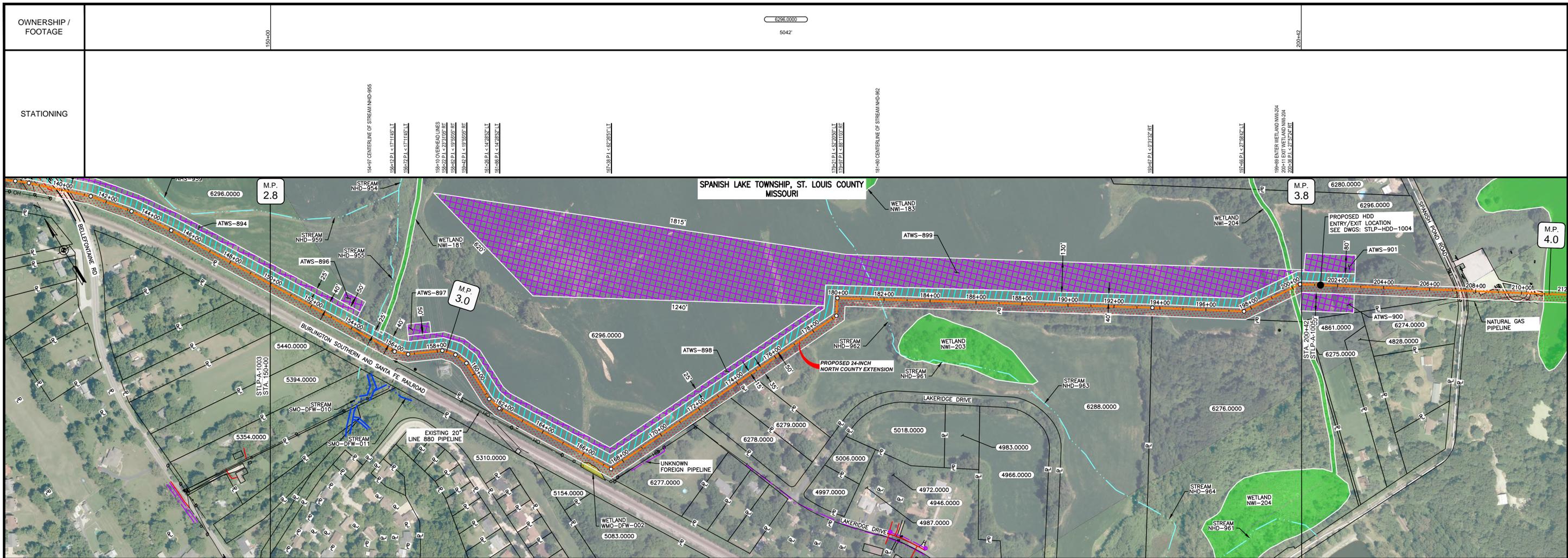
PREPARED BY

M M

**MOTT
MACDONALD**

DRAWN BY:	NDK 12/16/2016
CHECKED BY:	KPW 12/19/2016
ENG. APPROVAL:	DG 12/19/2016
APPROVED BY:	JW 12/19/2016
REV. DATE:	04/2017
REVISION:	2
DESC:	AMENDMENT TO FERC
DWG. NO:	STLP-ASI-004

©Spire072403_SpireSTL_Pipeline_FERC/MapGIS/AMDI-FERC_FIGURES/SPIRE_STL_PIPELINE_FERC_ASI_OVERVIEW_NICE_2204.mxd



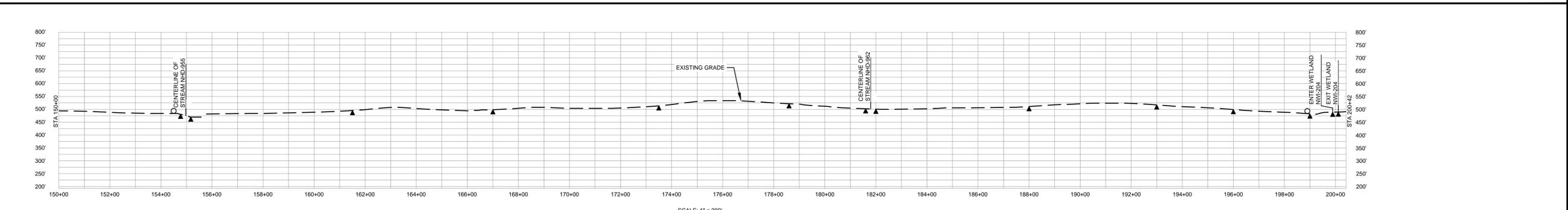
CLASS LOCATION/MAOP	CLASS III / 1440 PSIG		CLASS II / 1440 PSIG	
MATERIAL & COATING	5042			
DESIGN FACTOR	0.5			
CONSTRUCTION METHOD	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)
PIPELINE COVER	5'			
SOILS	60001	66024	60003	60025 60003 66024 60003 60001 66024
LAND USE	AG	F	AG D	AG F W AG

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



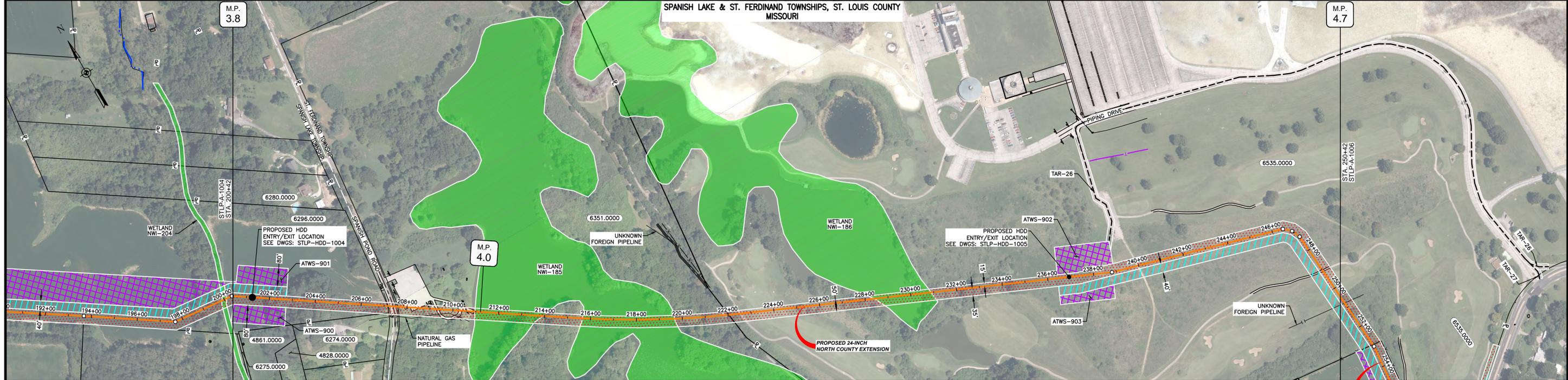
- NOTES:
1. THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.
 2. EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
 3. PROPERTY LINES 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			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 PROFILE H: 1" = 200'	SCALE PROFILE V: 1" = 200'	CLIENT APPROVAL	DATE	
3	5042	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE COATED	STPL-HDD-1003	HDD PROFILE OVERVIEW	2	AMENDMENT TO FERC	04/2017	KAM	WH	DGG	DP	04/2017							
											RJP	04/2017							

M M
 MOTT
 MACDONALD

SCALE	DRAWING NO.	REVISION
1" = 200'	STPL-A-1004	2

OWNERSHIP / FOOTAGE	207+42	672'	207+14	44'	207+14	1444'	222+02	2840'	250+42
STATIONING	MILEPOST 3.8 BUCKEYE PARTNERS, LP (NOT SURVEYED) MILEPOST 3.8 ST. LOUIS PIPELINE (NOT SURVEYED) MILEPOST 3.8 LACLAUDE PIPELINE (NOT SURVEYED) 207+14 PROPERTY LINE 207+14 CENTERLINE 207+14 EDGE OF PAVEMENT 207+14 ST. FERDINAND AND SPANISH LAKE MUNICIPALITIES BOUNDARY 207+14 CENTERLINE OF SPANISH POND ROAD 207+14 PROPERTY LINE 207+14 EDGE OF PAVEMENT 207+14 EDGE OF PAVEMENT 207+14 EDGE OF PAVEMENT 207+14 EDGE OF PAVEMENT 207+14 EDGE OF PAVEMENT 207+14 EDGE OF PAVEMENT 207+14 EDGE OF PAVEMENT 207+14 ENTER WETLAND NW/185 (SPANISH LAKE) 210+48 ENTER WETLAND NW/185 (SPANISH LAKE) 214+50 P.L. < 2000' LT 215+06 ENTER WETLAND NW/185 (SPANISH LAKE) 216+58 P.L. < 2000' LT 218+12 P.L. < 2000' LT 219+48 P.L. < 2000' LT 219+48 ENTER WETLAND NW/185 (SPANISH LAKE) 221+58 P.L. < 2000' LT 222+02 PROPERTY LINE 222+02 P.L. < 2000' LT MILEPOST 4.2 BUCKEYE PARTNERS, LP (NOT SURVEYED) 228+48 ENTER WETLAND NW/185 (POND) 230+48 ENTER WETLAND NW/185 (POND) 238+01 P.L. < 2000' LT 246+48 P.L. < 2000' LT 246+48 ENTER WETLAND NW/185 (POND) 247+48 P.L. < 2000' LT 249+48 EDGE OF PAVEMENT 249+48 EDGE OF PAVEMENT								



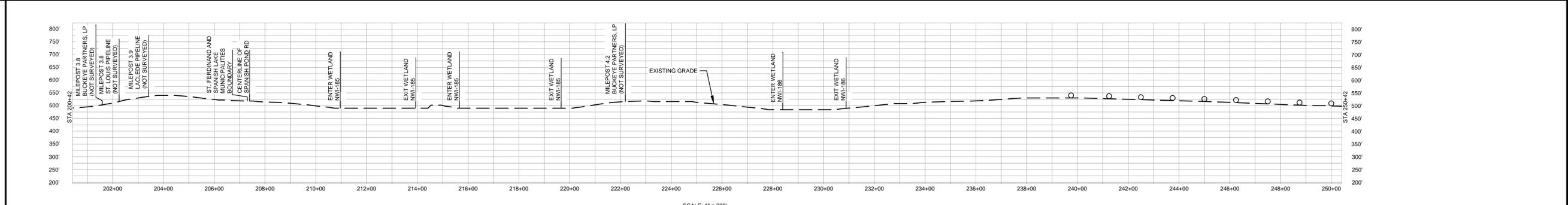
CLASS LOCATION/MAOP	CLASS II / 1440 PSIG		CLASS III / 1440 PSIG	
MATERIAL & COATING	83"	3568"	1349"	83"
DESIGN FACTOR	0.5			
CONSTRUCTION METHOD	OPEN CUT	HDD	HDD	OPEN CUT
PIPELINE COVER	5'			
SOILS	66024	60004	60001	60004
LAND USE	AG	F	AG	OL

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

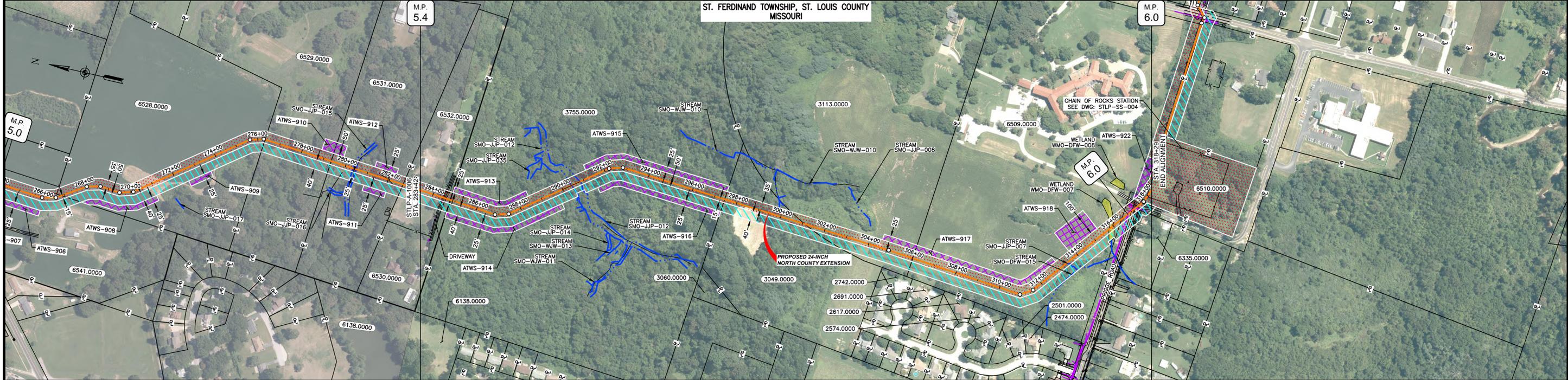
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10 - 15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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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: 1" = 200'	SPIRE STL Pipeline	ALIGNMENT SHEET PROPOSED 24-INCH NORTH COUNTY EXTENSION ST. LOUIS COUNTY, MISSOURI STA. 200+42 TO STA. 250+42		
3	1432'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE COATED	STLP-HDD-1004	HDD PROFILE OVERVIEW	2	AMENDMENT TO FERC	04/2017	KAM	WH	DGG	DP	04/2017	SCALE PROFILE H: 1" = 200'				
4	3568'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED	STLP-HDD-1005	HDD PROFILE OVERVIEW							RJP	04/2017	SCALE PROFILE V: 1" = 200'	PREPARED BY	MOTT MACDONALD		
											ENG. APPROVAL	DATE	CLIENT APPROVAL				
											DGG	04/2017	DATE				
											P.M. APPROVAL	DATE					
											JEV	04/2017					
													SCALE		DRAWING NO.	REVISION	
													1" = 200'	STLP-A-1005		2	

OWNERSHIP / FOOTAGE	283+42	138'	284+80	6530.0000	3755.0000	297+45	365'	301+10	492'	3113.0000	308+02	1044'	6509.0000	PRIGGE RD	122'	317+98	61'	318+29	
STATIONING	<p>284+4 FENCE 284+8 EDGE OF PAVEMENT 284+8 EDGE OF PAVEMENT 284+8 PROPERTY LINE</p> <p>288+8 P.L. & 1/2" 20" T.I.T. 287+43 P.L. & 1/2" 20" T.I.T.</p> <p>290+4 EDGE OF STREAM SMO-JUP-012 290+4 EDGE OF STREAM SMO-JUP-012</p> <p>292+2 P.L. & 1/2" 20" T.I.T. 292+2 P.L. & 1/2" 20" T.I.T.</p> <p>297+4 PROPERTY LINE 301+10 PROPERTY LINE</p> <p>308+02 P.L. & 1/2" 20" T.I.T. 308+02 PROPERTY LINE</p> <p>311+54 P.L. & 1/2" 20" T.I.T.</p> <p>315+8 ENTER WETLAND WMO-DFW-007 316+02 ENTER WETLAND WMO-DFW-007 316+02 TELEPHONE LINE 316+02 FIBER OPTIC LINE 317+00 CENTERLINE OF LOC PIPELINE 317+00 FIBER OPTIC LINE 317+00 FIBER OPTIC LINE 317+00 OVERHEAD UTILITY (PHONE RD) 317+00 OVERHEAD UTILITY (PHONE RD) 317+44 CENTERLINE OF PAVEMENT (PRIGGE RD) 317+48 PROPERTY LINE 317+48 P.L. & 1/2" 20" T.I.T.</p>																		



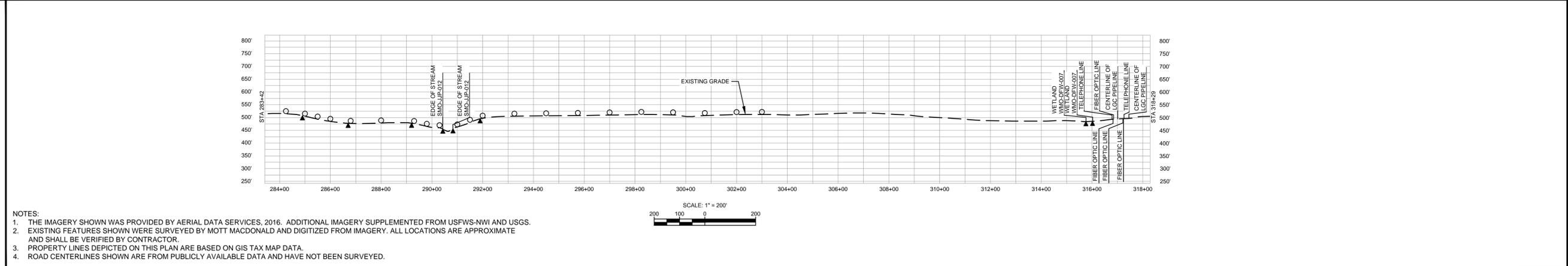
CLASS LOCATION/MAOP	CLASS III / 1440 PSIG																																																									
MATERIAL & COATING	<table border="1"> <tr> <td>283+42</td> <td colspan="13">3300'</td> <td>316+42</td> <td>130'</td> <td>317+72</td> <td>23'</td> <td>317+95</td> <td>34'</td> <td>318+29</td> </tr> <tr> <td></td> <td colspan="13">(3)</td> <td>(4)</td> <td>(3)</td> <td>(REF)</td> <td></td> </tr> </table>																			283+42	3300'													316+42	130'	317+72	23'	317+95	34'	318+29		(3)													(4)	(3)	(REF)	
283+42	3300'													316+42	130'	317+72	23'	317+95	34'	318+29																																						
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PIPELINE COVER	5'																																																									
SOILS	60003 60005 60165 60003 60165																																																									
LAND USE	AG F D F OW F OL F OL F DL AG W AG OL D F																																																									

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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)
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15-20%	75	200
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TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
3	3323'	PIPE, 24,000' OD X 0.500" WT, API-5L, X70, DSAW, FBE COATED	STLP-SS-004	ENABLE MRT CHAIN OF ROCKS STATION SITE PLAN	2	AMENDMENT TO FERC	04/2017	KAM	WH	DGG	DP	04/2017
4	130'	PIPE, 24,000' OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED	STLM-200-0300	CHAIN OF ROCKS STATION SITE PLAN								
REF	34'	SEE REFERENCED DETAIL DRAWING	STLM-200-0301	CHAIN OF ROCKS STATION (WEST) ENLARGED PLAN "A"								
			STLM-200-0302	CHAIN OF ROCKS CONNECTOR ENLARGED PLANS "B" & "C"								
			STLM-200-0303	ENABLE MRT CHAIN OF ROCKS STATION (EAST) ENLARGED PLAN "D"								

		M M MOTT MACDONALD	
SCALE PLAN: 1" = 200'	SCALE PROFILE H: 1" = 200'	SCALE PROFILE V: 1" = 200'	PREPARED FOR
CLIENT APPROVAL: _____ DATE: _____		PREPARED BY: _____ DATE: _____	
SCALE: 1" = 200'		DRAWING NO.: STLP-A-1007	
REVISION: _____		REVISION: _____	

SPIRE STL PIPELINE PROJECT

ALIGNMENT SHEET

PROPOSED 24-INCH NORTH COUNTY EXTENSION

ST. LOUIS COUNTY, MISSOURI

STA. 283+42 TO STA. 318+29