



ATTACHMENT 1B

Typical Right-of-Way Cross-Sections

INDEX
Typical Right-of-Way Cross-Section By Pipeline Segment

Figure No.	Description	Construction Right-of-Way Width (feet)	Pipeline Segment											
			Sherwood Lateral 36" Pipeline	CGT Lateral 24" Pipeline	Seneca Lateral 42" Pipeline	Berne Lateral 24" Pipeline	Clarrington Lateral 42" Pipeline	Majorsville Lateral 24" Pipeline	Cadiz Lateral 30" Pipeline	Supply Connector Lines A and B 42" Dual Pipelines	Burgettstown Lateral 36" Pipeline	Mainlines A and B 42" Dual Pipelines	Mainlines A 42" Pipelines	Market Segment 42" Pipeline
1A	Rover Pipeline Typical Upland Workspace Construction Area	125	X		X		X		X	X	X			X
1A DUAL	Dual Rover Pipelines Typical Upland Workspace Construction Area	135			X	X						X		
1A-1	Rover Pipeline Typical Upland Workspace Construction Area	125												X
1A-24	Rover Pipeline 24" CGT, Berne & Majorsville Laterals Typical Upland & Wetland Workspace Construction Area	75		X		X					X			
1B	Rover Pipeline Typical Upland Workspace 10' to 20' Overlap Construction Area, Parallel Foreign Pipeline	125	X		X		X							X
1B-24	Rover Pipeline 24" CGT, Berne & Majorsville Laterals Typical Upland & Wetland Workspace Construction Area, Parallel Foreign Pipeline	75		X		X					X			
1B-ALT-DUAL	Dual Rover Pipelines Typical Upland Workspace No Overlap Construction Area Parallel Foreign Pipeline	135			X	X								
1B-DUAL2	Dual Rover Pipelines Typical Upland Workspace 20' Overlap Construction Area Parallel Foreign Pipeline	135								X		X		

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2A-1	Rover Pipeline Typical Forested Wetland Crossing 10' Overlap Construction Area	75	X		X		X				X		X	X
2A-2-DUAL	Dual Rover Pipelines Typical Forested Wetland Crossing 20' Overlap Construction Area	95							X		X			
2A-3	Rover Pipeline Typical Forested Wetland Crossing No Overlap Construction Area	75	X		X		X				X		X	X
2A-3-DUAL	Dual Rover Pipelines Typical Forested Wetland Crossing No Overlap Construction Area	95							X		X			
2B	Rover Pipeline Typical Wetland Crossing (Non-Forested Only) 10'-20' Overlap Construction Area	100	X		X		X				X			X
2B-DUAL	Dual Rover Pipelines Typical Wetland Crossing (Non-Forested Only) 10'-20' Overlap Construction Area	120							X		X			
2B-1	Rover Pipeline Typical Wetland Crossing (Non-Forested Only) No Overlap Construction Area	100	X		X		X				X			X
2B-1-DUAL	Dual Rover Pipelines Typical Wetland Crossing (Non-Forested Only) No Overlap Construction Area	120							X		X			

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3	Rover Pipeline Typical Agricultural Construction Area 10' to 20' Overlap (Full ROW Topsoil Segregation)	150	X		X		X		X		X		X	X
3-24	Rover Pipeline 24" CGT, Berne & Majorsville Laterals Typical Agricultural Construction Area w & w/o Parallel Foreign P/L or Transmission Line No Overlap (Full ROW Topsoil Segregation)	100		X		X				X				
3-ALT-DUAL	Dual Rover Pipelines Typical Agricultural Construction Area No Overlap (Full ROW Topsoil Segregation)	150			X	X								
3B	Rover Pipeline Typical Agricultural Construction Area 25' Overlap (Full ROW Topsoil Segregation)	150												X
3-DUAL2	Dual Rover Pipelines Typical Agricultural Construction Area 20' Overlap (Full ROW Topsoil Segregation)	150			X	X				X		X		
4A	Rover Pipeline Typical Upland Workspace Construction Area 20'-30' Overlap Paralleling Transmission Line	125												X

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Typical Right-of-Way Cross-Section By Pipeline Segment

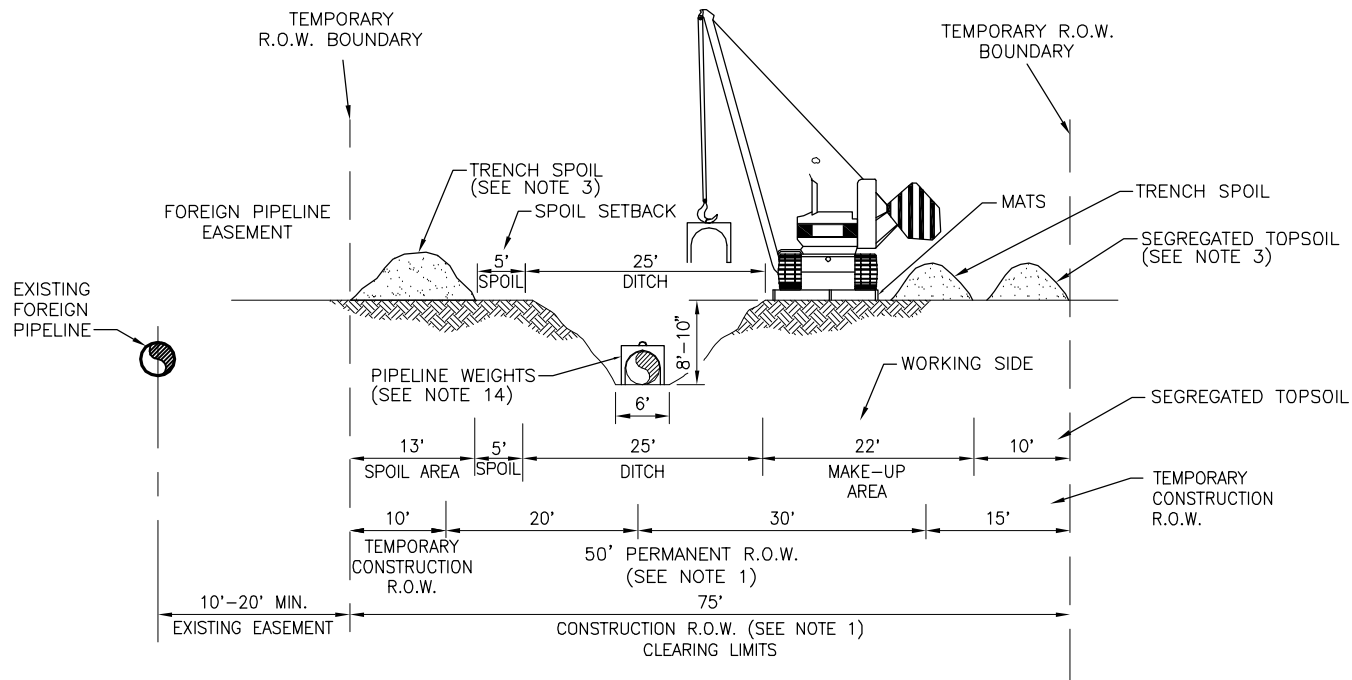
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4A-1	Rover Pipeline Typical Upland Workspace Construction Area 10' Overlap Paralleling Transmission Line	125															X
4A-24	Rover Pipeline 24" CGT, Berne & Majorsville Laterals Typical Upland & Wetland Workspace Construction Area-No Overlap Paralleling Transmission Line	75				X			X								
4A-DUAL	Dual Rover Pipelines Typical Upland Workspace Construction Area 20' Overlap Paralleling Transmission Line	135								X			X				
4B-1	Rover Pipeline Typical Forested Wetland Crossing Construction Area 10' Overlap Paralleling Transmission Line	75															X
4B-DUAL	Dual Rover Pipelines Typical Forested Wetland Crossing Construction Area 20' Overlap Paralleling Transmission Line	95								X			X				
4C	Rover Pipeline Typical Wetland Crossing (Non-Forested Only) 20'-30' Overlap Paralleling Transmission Line	100															X
4C-1	Rover Pipeline Typical Wetland Crossing (Non-Forested Only) 10' Overlap Paralleling Transmission Line	100															X

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4C-DUAL	Dual Rover Pipelines Typical Wetland Crossing (Non-Forested Only) 20'-30' Overlap Paralleling Transmission Line	120								X		X		
4D	Rover Pipeline Typical Agricultural Crossing 20'-30' Overlap Paralleling Transmission Line	150			X		X							X
4D-1	Rover Pipeline Typical Agricultural Crossing 10' Overlap Paralleling Transmission Line	150												X
4D-DUAL	Dual Rover Pipelines Typical Agricultural Crossing 20'-30' Overlap Paralleling Transmission Line	150								X		X		
5A	Rover Pipeline Typical Upward Side Slope Workspace Construction Area	125	X		X		X				X			
5A-24	Rover Pipeline 24" CGT, Berne & Majorsville Laterals Typical Upward Side Slope No Overlap Construction Area	75		X		X		X						
5A-ALT-DUAL	Dual Rover Pipelines Typical Upward Side Slope Workspace No Overlap Construction Area	135			X	X								
5A-DUAL	Dual Rover Pipeline Typical Upward Side Slope Workspace 20' Overlap Construction Area	135			X	X				X		X		

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5B	Rover Pipeline Typical Downward Side Slope Workspace Construction Area	125	X		X		X				X			
5B-24	Rover Pipeline 24" CGT, Berne & Majorsville Laterals Typical Downward Side Slope Workspace Construction Area	75		X		X			X					
5B-ALT-DUAL	Dual Rover Pipelines Typical Downward Side Slope Workspace No Overlap Construction Area	135			X	X								
5B-DUAL	Dual Rover Pipelines Typical Downward Side Slope Workspace 20' Overlap Construction Area	135			X	X				X		X		





PROFILE

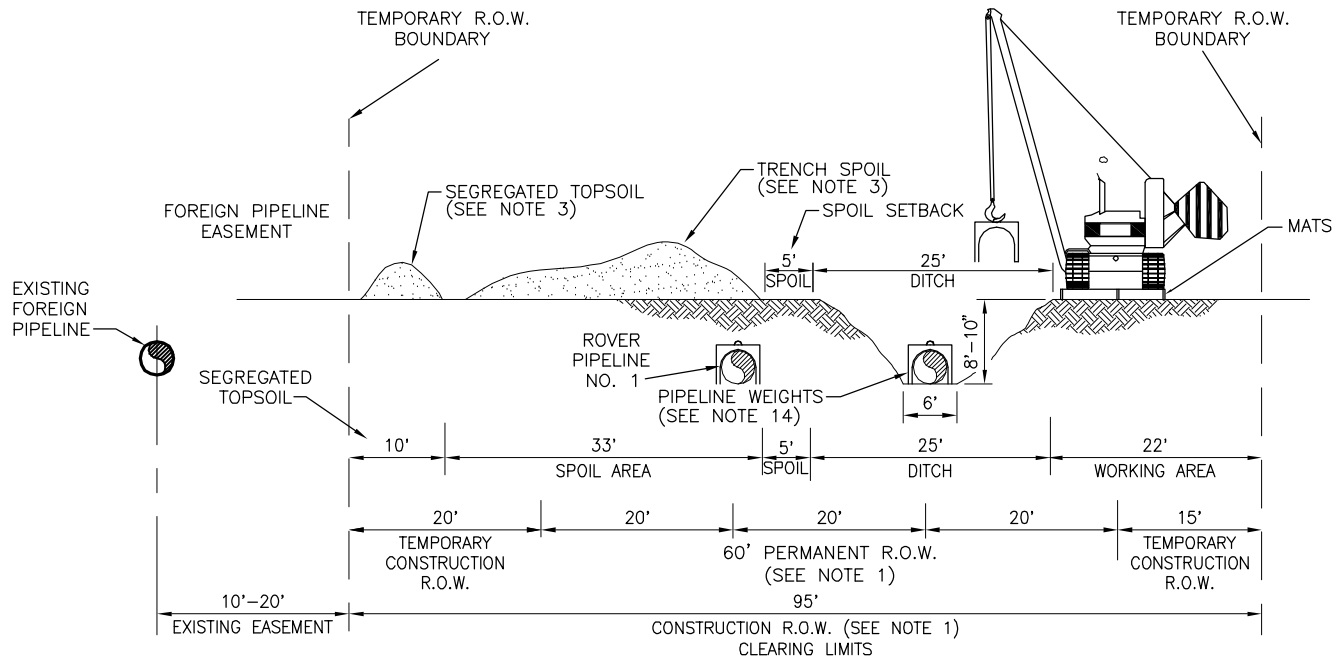
1"=20' HOR.
1"=20' VERT.

* DIMENSIONS ARE TYPICAL, SEE ALIGNMENT SHEETS FOR ACTUAL RIGHT-OF-WAY CONFIGURATIONS AND CLEARING LIMITS.

NOTES:

1. CONSTRUCTION RIGHT-OF-WAY WILL BE 75 FEET IN WETLANDS. ADDITIONAL TEMPORARY WORKSPACE WILL BE NECESSARY AT ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.
2. EQUIPMENT MATS OR LOW GROUND WEIGHT EQUIPMENT SHALL BE USED IN SATURATED CONDITIONS.
3. UTILIZE THE "TRENCH ONLY" TOPSOIL SALVAGE METHOD IF NECESSARY. IF TOPSOIL SEGREGATION IS REQUIRED, THIS AREA WILL BE USED FOR TOPSOIL AND TRENCH SPOIL, WITH ANY REMAINING TRENCH SPOIL TEMPORARILY HAULED OFF ROW AND RETURNED FOR BACK FILLING.
4. DEPTH OF TOPSOIL TRENCHING NOT TO EXCEED 12 INCHES EXCEPT WHERE DEEPER STRIPPING IS STIPULATED BY THE CONSTRUCTION LINE LIST OR CONSTRUCTION ALIGNMENT SHEETS.
5. INSTALL SILT FENCE ALONG DOWNSTREAM SIDE OF THE CONSTRUCTION R.O.W.
6. LEAVE GAPS IN SPOIL PILES AT OBVIOUS DRAINAGE LOCATIONS. DO NOT PUSH UPLAND SOILS INTO CANALS OR WETLANDS. DO NOT USE TOPSOIL FOR PADDING.
7. AVOID SCALPING VEGETATED GROUND SURFACE WHEN BACKFILLING SPOIL AND TOPSOIL PILES.
8. TOPSOIL AND TRENCH SPOIL RELATIVE POSITIONS CAN, AS APPROVED BY THE ENVIRONMENTAL INSPECTOR, BE REVERSED. KEEP TOPSOIL CLEAN OF ALL CONSTRUCTION DEBRIS.
9. CUT VEGETATION AND TREES OFF AT GROUND LEVEL, LEAVING EXISTING ROOT SYSTEMS IN PLACE AND REMOVE CUTTINGS FROM THE WETLAND FOR DISPOSAL.
10. LIMIT THE PULLING OF STUMPS AND GRADING TO THE TRENCH AREA. DO NOT GRADE OR REMOVE STUMPS OR ROOT SYSTEMS FROM THE REST OF THE RIGHT-OF-WAY UNLESS REQUIRED BY SAFETY-RELATED CONSTRUCTION CONSTRAINT. TRAVEL THROUGH WETLAND WILL BE LIMITED TO ONE PASS TO CONSTRUCT THE WETLAND TRAVEL LANE.
11. FOLLOWING BACKFILLING OF THE PIPELINE DITCH AND PRIOR TO THE FINAL PIPELINE RIGHT-OF-WAY RESTORATION, A CROWN OF NO GREATER THAN 6 INCHES WILL BE INSTALLED ACROSS THE PIPELINE DITCH IN SATURATED WETLAND SOIL CONDITIONS OR RESTORED PRE-CONSTRUCTION GRADE.
12. IN UNSATURATED CONDITIONS, SPOIL FROM THE WETLAND TRENCH MAY BE USED TO STABILIZE THE WORKING SIDE.
13. REMOVE TIMBER RIPRAP OR EQUIPMENT MATS FROM THE WETLANDS UPON COMPLETION OF CONSTRUCTION.
14. PIPELINE WEIGHTS OF AN APPROPRIATE TYPE, WEIGHT AND SPACING WILL BE USED AS NEEDED.
15. CONTACT ENVIRONMENTAL INSPECTOR (EI) TO REVIEW/APPROVE CLEARING LIMITS PRIOR TO STARTING WORK.

PIPELINE, STATION, OR ACCOUNT NUMBER		SCALE 1"=20'		CONST. YR.		PROJECT NO.	
FILENUMBER	CADD FILENAME	DRAWN KMA		DATE 4-14-15			
REV. NO. - DESCRIPTION	BY	DATE	APP.			PREVIOUS DWG. NO.	
A FERC FILING	KMA	4-15-15	JHR			SHT. OF	
						DWG. NO.	
						FIGURE 2A-3	
				ROVER PIPELINE TYPICAL FORESTED WETLAND CROSSING NO OVERLAP CONSTRUCTION AREA		SHT. OF	
							




PROFILE

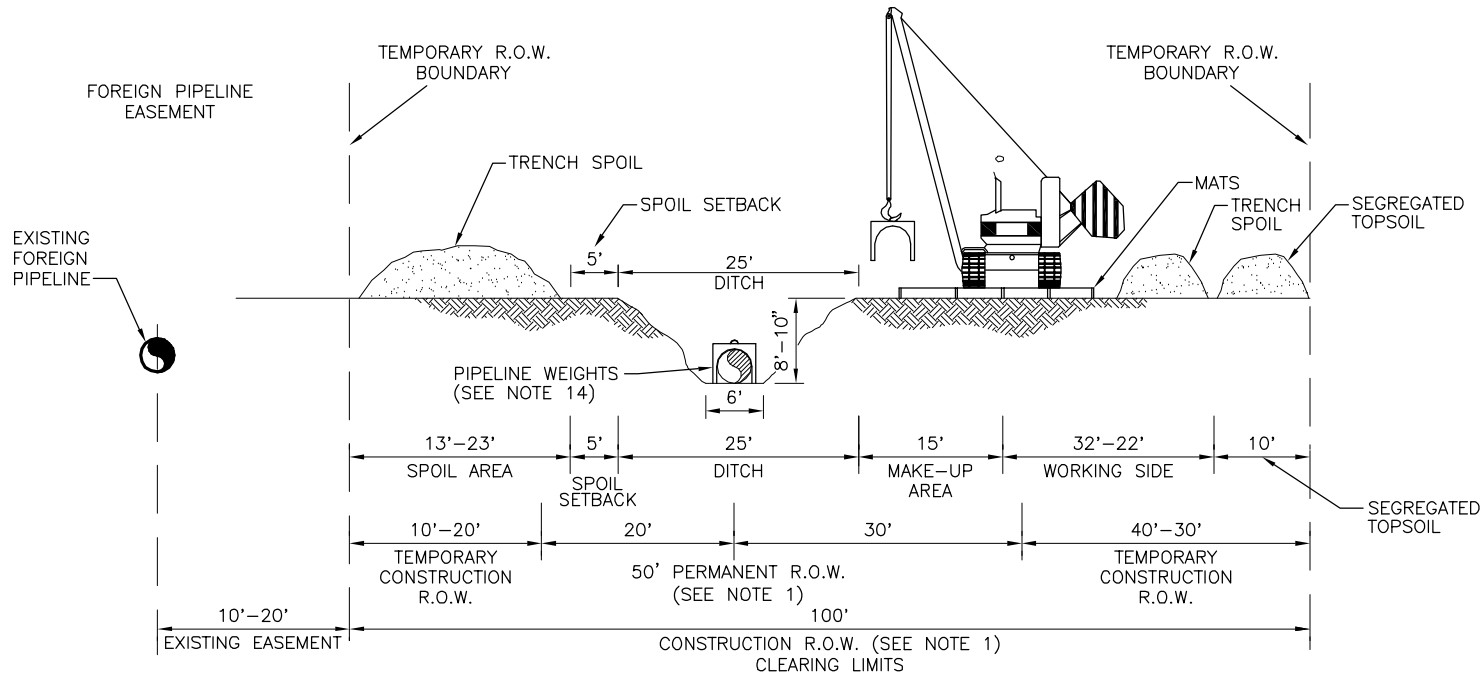
1"=20' HOR.
1"=20' VERT.

* DIMENSIONS ARE TYPICAL, SEE ALIGNMENT SHEETS FOR ACTUAL RIGHT-OF-WAY CONFIGURATIONS AND CLEARING LIMITS.

NOTES:

1. CONSTRUCTION RIGHT-OF-WAY WILL BE 95 FEET IN WETLANDS FOR THE DUAL PIPELINE CASE. ADDITIONAL TEMPORARY WORKSPACE WILL BE NECESSARY AT ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.
2. EQUIPMENT MATS OR LOW GROUND WEIGHT EQUIPMENT SHALL BE USED IN SATURATED CONDITIONS.
3. UTILIZE THE "TRENCH ONLY" TOPSOIL SALVAGE METHOD IF NECESSARY. IF TOPSOIL SEGREGATION IS REQUIRED, THIS AREA WILL BE USED FOR TOPSOIL AND TRENCH SPOIL, WITH ANY REMAINING TRENCH SPOIL TEMPORARILY HAULED OFF ROW AND RETURNED FOR BACK FILLING.
4. DEPTH OF TOPSOIL TRENCHING NOT TO EXCEED 12 INCHES EXCEPT WHERE DEEPER STRIPPING IS STIPULATED BY THE CONSTRUCTION LINE LIST OR CONSTRUCTION ALIGNMENT SHEETS.
5. INSTALL SILT FENCE ALONG DOWNSTREAM SIDE OF THE CONSTRUCTION R.O.W.
6. LEAVE GAPS IN SPOIL PILES AT OBVIOUS DRAINAGE LOCATIONS. DO NOT PUSH UPLAND SOILS INTO CANALS OR WETLANDS. DO NOT USE TOPSOIL FOR PADDING.
7. AVOID SCALPING VEGETATED GROUND SURFACE WHEN BACKFILLING SPOIL AND TOPSOIL PILES.
8. TOPSOIL AND TRENCH SPOIL RELATIVE POSITIONS CAN, AS APPROVED BY THE ENVIRONMENTAL INSPECTOR, BE REVERSED. KEEP TOPSOIL CLEAN OF ALL CONSTRUCTION DEBRIS.
9. CUT VEGETATION AND TREES OFF AT GROUND LEVEL, LEAVING EXISTING ROOT SYSTEMS IN PLACE AND REMOVE CUTTINGS FROM THE WETLAND FOR DISPOSAL.
10. LIMIT THE PULLING OF STUMPS AND GRADING TO THE TRENCH AREA. DO NOT GRADE OR REMOVE STUMPS OR ROOT SYSTEMS FROM THE REST OF THE RIGHT-OF-WAY UNLESS REQUIRED BY SAFETY-RELATED CONSTRUCTION CONSTRAINT. TRAVEL THROUGH WETLAND WILL BE LIMITED TO ONE PASS TO CONSTRUCT THE WETLAND TRAVEL LANE.
11. FOLLOWING BACKFILLING OF THE PIPELINE DITCH AND PRIOR TO THE FINAL PIPELINE RIGHT-OF-WAY RESTORATION, A CROWN OF NO GREATER THAN 6 INCHES WILL BE INSTALLED ACROSS THE PIPELINE DITCH IN SATURATED WETLAND SOIL CONDITIONS OR RESTORED PRE-CONSTRUCTION GRADE.
12. IN UNSATURATED CONDITIONS, SPOIL FROM THE WETLAND TRENCH MAY BE USED TO STABILIZE THE WORKING SIDE.
13. REMOVE TIMBER RIPRAP OR EQUIPMENT MATS FROM THE WETLANDS UPON COMPLETION OF CONSTRUCTION.
14. PIPELINE WEIGHTS OF AN APPROPRIATE TYPE, WEIGHT AND SPACING WILL BE USED AS NEEDED.
15. CONTACT ENVIRONMENTAL INSPECTOR (EI) TO REVIEW/APPROVE CLEARING LIMITS PRIOR TO STARTING WORK.

PIPELINE, STATION, OR ACCOUNT NUMBER		SCALE 1"=20'		CONST. YR.		PROJECT NO.	
FILENUMBER	CADD FILENAME			DRAWN KMA	DATE 4-14-15		
REV. NO.	DESCRIPTION	BY	DATE	APP.			PREVIOUS DWG. NO.
A	FERC FILING	KMA	4-15-15	JHR			SHT. OF
							DWG. NO.
							FIGURE 2A-3-DUAL
						DUAL ROVER PIPELINES TYPICAL FORESTED WETLAND CROSSING NO OVERLAP CONSTRUCTION AREA	
						SHT. OF FIGURE 2A-3-DUAL SHT. OF	




PROFILE

1"=20' HOR.
1"=20' VERT.

* DIMENSIONS ARE TYPICAL, SEE ALIGNMENT SHEETS FOR ACTUAL RIGHT-OF-WAY CONFIGURATIONS AND CLEARING LIMITS.

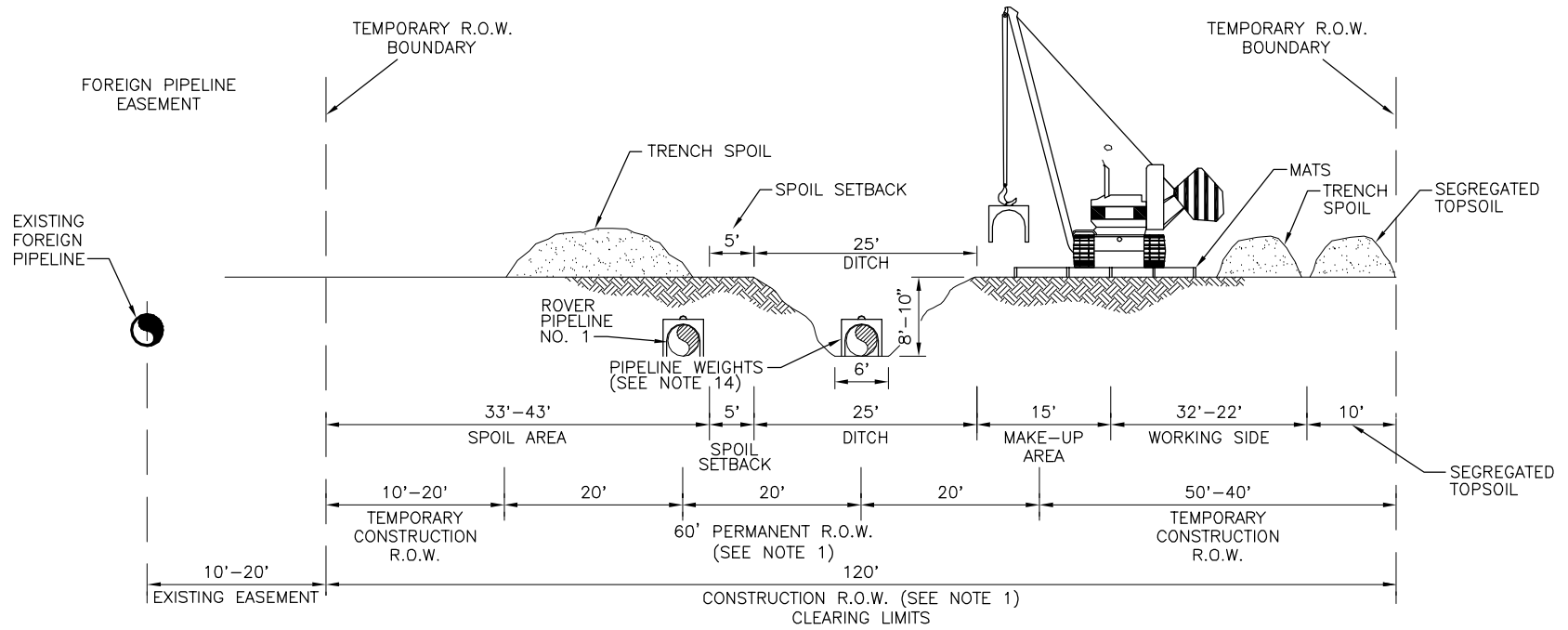
NOTES:

1. CONSTRUCTION RIGHT-OF-WAY WILL BE 100 FEET IN WETLANDS CONSISTING OF 50 FEET OF PERMANENT EASEMENT AND 50 FEET OF TEMPORARY WORKSPACE. ADDITIONAL TEMPORARY WORKSPACE WILL BE NECESSARY AT ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.
2. EQUIPMENT MATS OR LOW GROUND WEIGHT EQUIPMENT SHALL BE USED IN SATURATED CONDITIONS.
3. UTILIZE THE "TRENCH ONLY" TOPSOIL SALVAGE METHOD.
4. DEPTH OF TOPSOIL TRENCHING NOT TO EXCEED 12 INCHES EXCEPT WHERE DEEPER STRIPPING IS STIPULATED BY THE CONSTRUCTION LINE LIST OR CONSTRUCTION ALIGNMENT SHEETS.
5. INSTALL SILT FENCE ALONG DOWNSTREAM SIDE OF THE CONSTRUCTION R.O.W.
6. LEAVE GAPS IN SPOIL PILES AT OBVIOUS DRAINAGE LOCATIONS. DO NOT PUSH UPLAND SOILS INTO CANALS OR WETLANDS. DO NOT USE TOPSOIL FOR PADDING.
7. AVOID SCALPING VEGETATED GROUND SURFACE WHEN BACKFILLING SPOIL AND TOPSOIL PILES.
8. TOPSOIL AND TRENCH SPOIL RELATIVE POSITIONS CAN, AS APPROVED BY THE ENVIRONMENTAL INSPECTOR, BE REVERSED. KEEP TOPSOIL CLEAN OF ALL CONSTRUCTION DEBRIS.
9. CUT VEGETATION AND TREES OFF AT GROUND LEVEL, LEAVING EXISTING ROOT SYSTEMS IN PLACE AND REMOVE CUTTINGS FROM THE WETLAND FOR DISPOSAL.
10. LIMIT THE PULLING OF STUMPS AND GRADING TO THE TRENCH AREA. DO NOT GRADE OR REMOVE STUMPS OR ROOT SYSTEMS FROM THE REST OF THE RIGHT-OF-WAY UNLESS REQUIRED BY SAFETY-RELATED CONSTRUCTION CONSTRAINT. TRAVEL THROUGH WETLAND WILL BE LIMITED TO ONE PASS TO CONSTRUCT THE WETLAND TRAVEL LANE.
11. FOLLOWING BACKFILLING OF THE PIPELINE DITCH AND PRIOR TO THE FINAL PIPELINE RIGHT-OF-WAY RESTORATION, A CROWN OF NO GREATER THAN 6 INCHES WILL BE INSTALLED ACROSS THE PIPELINE DITCH IN SATURATED WETLAND SOIL CONDITIONS OR RESTORED PRE-CONSTRUCTION GRADE.
12. IN UNSATURATED CONDITIONS, SPOIL FROM THE WETLAND TRENCH MAY BE USED TO STABILIZE THE WORKING SIDE.
13. REMOVE TIMBER RIPRAP OR EQUIPMENT MATS FROM THE WETLANDS UPON COMPLETION OF CONSTRUCTION.
14. PIPELINE WEIGHTS OF AN APPROPRIATE TYPE, WEIGHT AND SPACING WILL BE USED AS NEEDED.

PIPELINE, STATION, OR ACCOUNT NUMBER		SCALE 1"=20'		CONST. YR.		PROJECT NO.	
FILENUMBER	CADD FILENAME			DRAWN KMA	DATE 4-14-15		
REV. NO. - DESCRIPTION	BY	DATE	APP.			PREVIOUS DWG. NO.	
A FERC FILING	KMA	4-15-15	JHR			SHT. OF	
						DWG. NO.	
						FIGURE 2B-1	
						SHT. OF	

ROVER PIPELINE
TYPICAL WETLAND CROSSING
(NON-FORESTED ONLY)
NO OVERLAP
CONSTRUCTION AREA





PROFILE
 1"=20' HOR.
 1"=20' VERT.

* DIMENSIONS ARE TYPICAL, SEE ALIGNMENT SHEETS FOR ACTUAL RIGHT-OF-WAY CONFIGURATIONS AND CLEARING LIMITS.

NOTES:

1. CONSTRUCTION RIGHT-OF-WAY WILL BE 120 FEET IN WETLANDS CONSISTING OF 60 FEET OF PERMANENT EASEMENT AND 60 FEET OF TEMPORARY WORKSPACE. ADDITIONAL TEMPORARY WORKSPACE WILL BE NECESSARY AT ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.
2. EQUIPMENT MATS OR LOW GROUND WEIGHT EQUIPMENT SHALL BE USED IN SATURATED CONDITIONS.
3. UTILIZE THE "TRENCH ONLY" TOPSOIL SALVAGE METHOD.
4. DEPTH OF TOPSOIL TRENCHING NOT TO EXCEED 12 INCHES EXCEPT WHERE DEEPER STRIPPING IS STIPULATED BY THE CONSTRUCTION LINE LIST OR CONSTRUCTION ALIGNMENT SHEETS.
5. INSTALL SILT FENCE ALONG DOWNSTREAM SIDE OF THE CONSTRUCTION R.O.W.
6. LEAVE GAPS IN SPOIL PILES AT OBVIOUS DRAINAGE LOCATIONS. DO NOT PUSH UPLAND SOILS INTO CANALS OR WETLANDS. DO NOT USE TOPSOIL FOR PADDING.
7. AVOID SCALPING VEGETATED GROUND SURFACE WHEN BACKFILLING SPOIL AND TOPSOIL PILES.
8. TOPSOIL AND TRENCH SPOIL RELATIVE POSITIONS CAN, AS APPROVED BY THE ENVIRONMENTAL INSPECTOR, BE REVERSED. KEEP TOPSOIL CLEAN OF ALL CONSTRUCTION DEBRIS.
9. CUT VEGETATION AND TREES OFF AT GROUND LEVEL, LEAVING EXISTING ROOT SYSTEMS IN PLACE AND REMOVE CUTTINGS FROM THE WETLAND FOR DISPOSAL.
10. LIMIT THE PULLING OF STUMPS AND GRADING TO THE TRENCH AREA. DO NOT GRADE OR REMOVE STUMPS OR ROOT SYSTEMS FROM THE REST OF THE RIGHT-OF-WAY UNLESS REQUIRED BY SAFETY-RELATED CONSTRUCTION CONSTRAINT. TRAVEL THROUGH WETLAND WILL BE LIMITED TO ONE PASS TO CONSTRUCT THE WETLAND TRAVEL LANE.
11. FOLLOWING BACKFILLING OF THE PIPELINE DITCH AND PRIOR TO THE FINAL PIPELINE RIGHT-OF-WAY RESTORATION, A CROWN OF NO GREATER THAN 6 INCHES WILL BE INSTALLED ACROSS THE PIPELINE DITCH IN SATURATED WETLAND SOIL CONDITIONS OR RESTORED PRE-CONSTRUCTION GRADE.
12. IN UNSATURATED CONDITIONS, SPOIL FROM THE WETLAND TRENCH MAY BE USED TO STABILIZE THE WORKING SIDE.
13. REMOVE TIMBER RIPRAP OR EQUIPMENT MATS FROM THE WETLANDS UPON COMPLETION OF CONSTRUCTION.
14. PIPELINE WEIGHTS OF AN APPROPRIATE TYPE, WEIGHT AND SPACING WILL BE USED AS NEEDED.

PIPELINE, STATION, OR ACCOUNT NUMBER		SCALE 1"=20'		CONST. YR.		PROJECT NO.	
FILENUMBER	CADD FILENAME			DRAWN KMA	DATE 4-14-15		
REV. NO. - DESCRIPTION	BY	DATE	APP.			PREVIOUS DWG. NO.	
A FERC FILING	KMA	4-15-15	JHR			SHT. OF	
						DWG. NO.	
						FIGURE 2B-1-DUAL	
				DUAL ROVER PIPELINES TYPICAL WETLAND CROSSING (NON-FORESTED ONLY) NO OVERLAP CONSTRUCTION AREA		SHT. OF	