

1. Survey and Staking
2. Tree Removal
3. Clearing
4. ROW Topsoil Stripping and Front-End Grading
5. Restaking Centerline of Trench
- 6a. Trenching (wheel ditcher)
- 6b. Trenching (backhoe)
- 6c. Trenching (rock)
7. Stringing Pipe
8. Field Bending Pipe
9. Line-Up, Initial Weld
10. Fill & Cap, Final Weld
11. As-Built Footage
12. X-Ray Inspection, Weld Repair
13. Coating Field Welds
14. Inspection & Repair of Coating
15. Lowering Pipe into Trench
16. As-Built Survey
17. Pad, Backfill, Rough Grade
18. Hydrostatic Testing, Final Tie-in
19. Replace Topsoil, Final Clean-Up, Full Restoration

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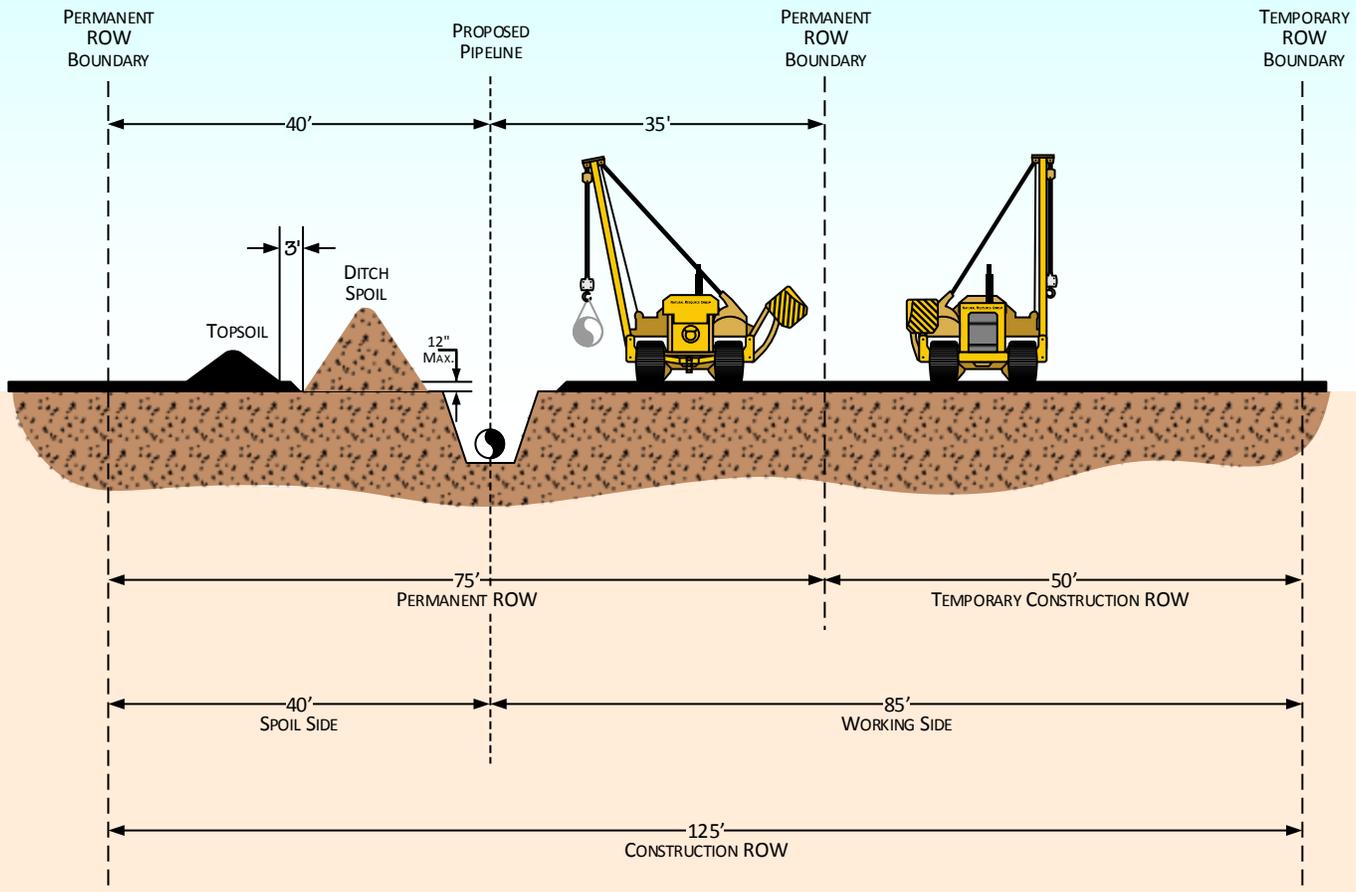


## Atlantic Coast Pipeline Typical Pipeline Construction Sequence



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Figure F-1



**PROFILE**

**NOTES:**

1. CONSTRUCTION RIGHT-OF-WAY WILL TYPICALLY BE 125' WIDE CONSISTING OF 75' OF PERMANENT RIGHT-OF-WAY AND 50' OF TEMPORARY CONSTRUCTION RIGHT-OF-WAY. ADDITIONAL TEMPORARY WORKSPACE WILL BE NECESSARY AT MAJOR ROAD, RAIL, RIVER CROSSINGS, SIDESLOPES, WHERE FULL RIGHT-OF-WAY TOPSOIL STRIPPING IS CONDUCTED, AND OTHER SPECIAL CIRCUMSTANCES AS REQUIRED.

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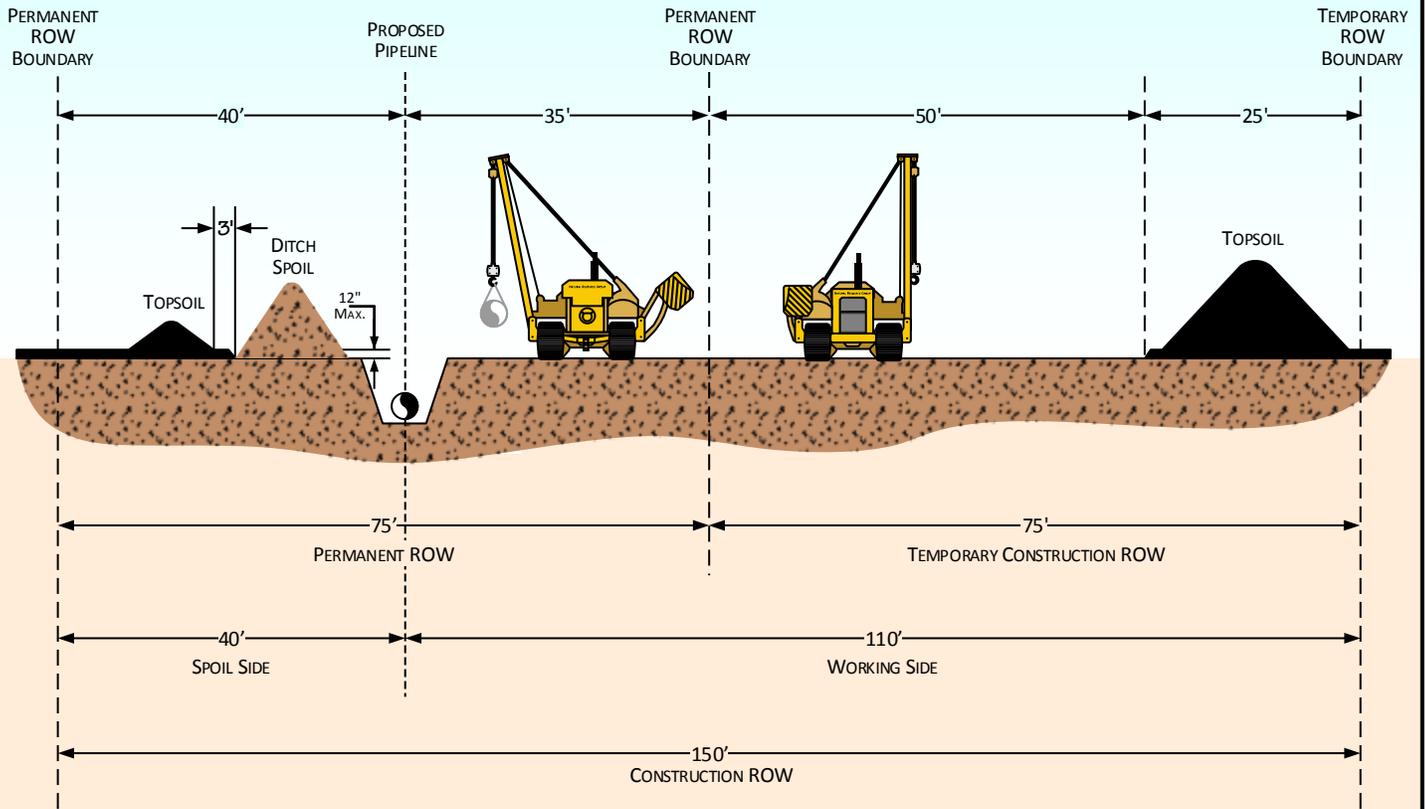


**Atlantic Coast Pipeline  
AP-1 (42" Outside Diameter)  
Typical Construction Right-of-Way  
Non-Agricultural Areas**



an ERM Group company

Figure F-2



**PROFILE**

**NOTES:**

1. IN AGRICULTURAL AREAS WHERE FULL WIDTH TOPSOIL STRIPPING IS REQUIRED, AN ADDITIONAL 25' OF TEMPORARY WORKSPACE WILL BE REQUIRED. IN THIS SCENARIO, THE CONSTRUCTION RIGHT-OF-WAY WILL BE 150' WIDE, CONSISTING OF 75' OF PERMANENT RIGHT-OF-WAY AND 75' OF TEMPORARY CONSTRUCTION RIGHT-OF-WAY. ADDITIONAL TEMPORARY WORKSPACE WILL BE NECESSARY AT MAJOR ROAD, RAIL, RIVER CROSSINGS, SIDESLOPES, AND OTHER SPECIAL CIRCUMSTANCES AS REQUIRED.

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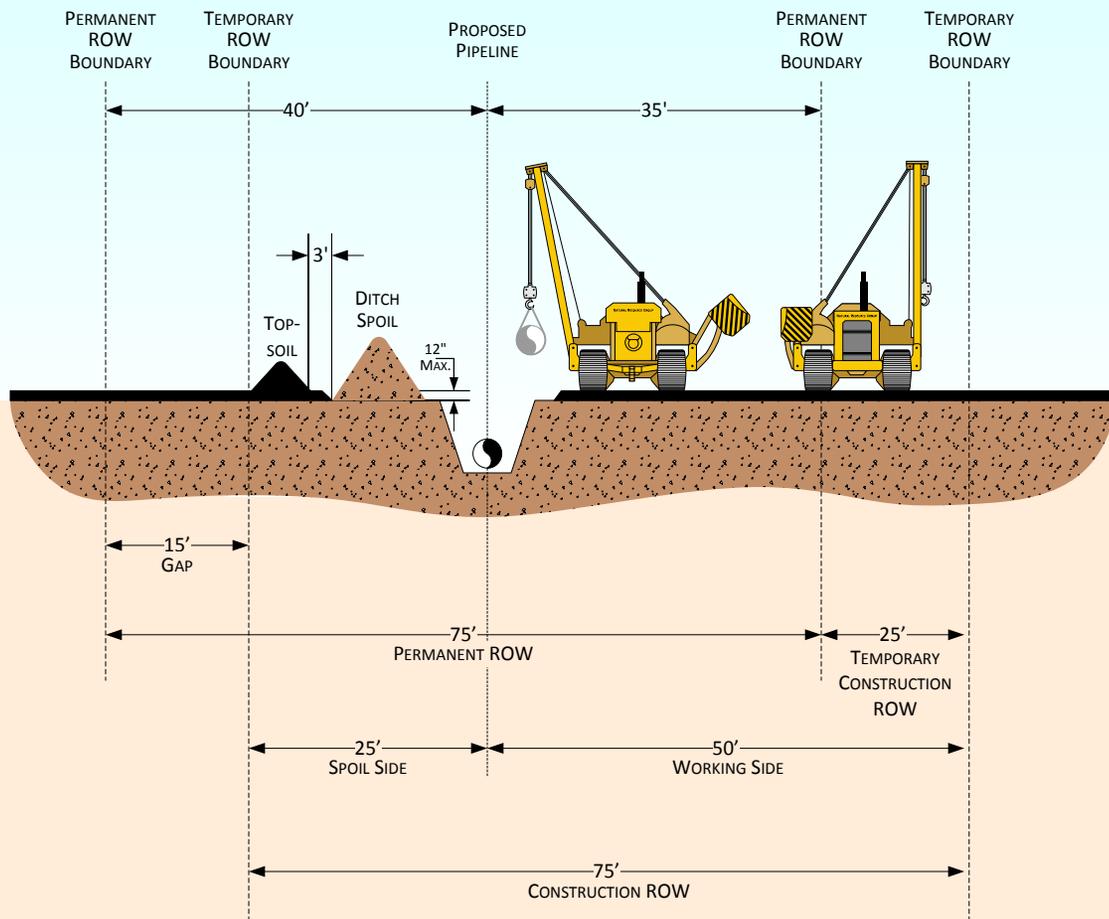


**Atlantic Coast Pipeline  
AP-1 (42" Outside Diameter)  
Typical Construction Right-of-Way  
Agricultural Areas**



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Figure F-3



**PROFILE**

**NOTES:**

1. CONSTRUCTION RIGHT-OF-WAY WILL TYPICALLY BE 75' WIDE WITH 25' ON THE SPOIL SIDE AND 50' ON THE WORKING SIDE. THE PERMANENT ROW WILL BE 75' WIDE WITH 40' ON THE SPOIL SIDE AND 35' ON THE WORKING SIDE. THIS WILL LEAVE A 15' GAP BETWEEN THE AREA OF DISTURBANCE DURING CONSTRUCTION AND THE BOUNDARY OF THE PERMANENT ROW. NO IMPACT IS EXPECTED IN THIS AREA.
2. DURING CONSTRUCTION, A WORKING SIDE OF 50 FEET IN WETLANDS WILL BE NECESSARY GIVEN THE DIAMETER OF THE PIPE.
3. DURING OPERATIONS, ATLANTIC PROPOSES A STANDARD PERMANENT EASEMENT IN WETLANDS CONSISTENT WITH OTHER SEGMENTS OF THE PIPELINE. MAINTENANCE ACTIVITIES IN THE PERMANENT EASEMENT WILL BE CONSISTENT WITH THE PROCEDURES.

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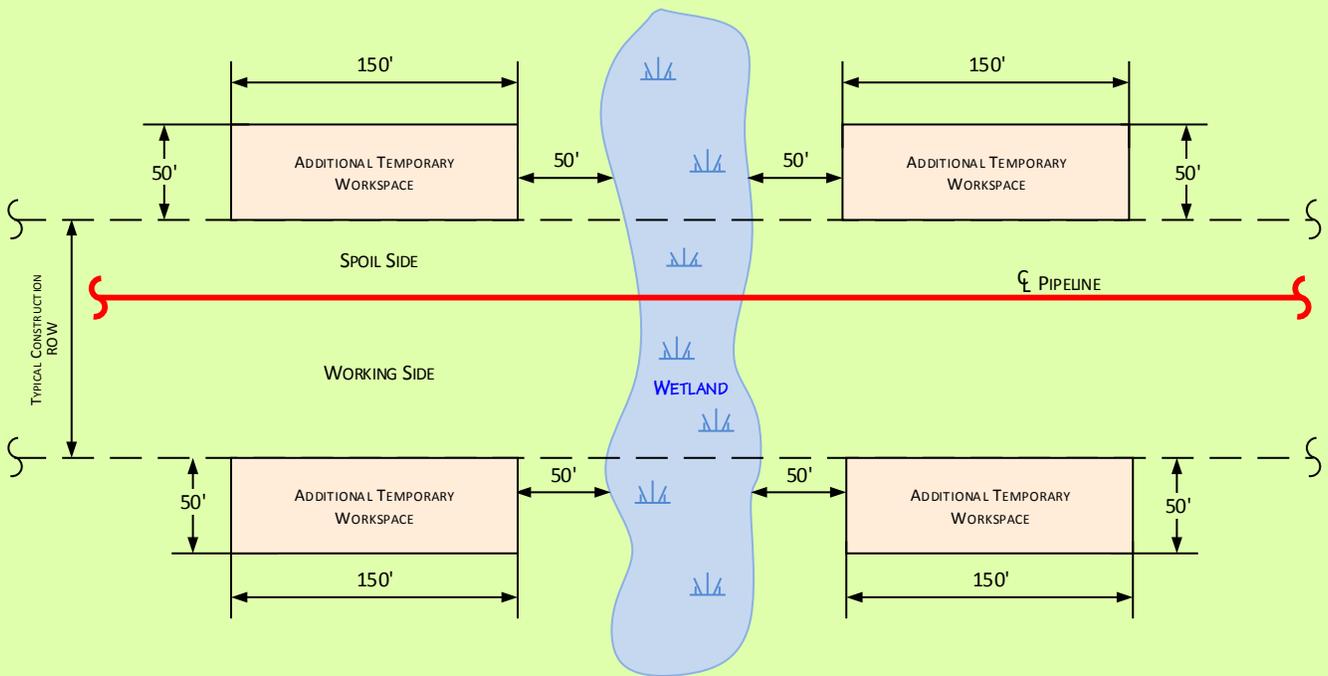
**Atlantic Coast Pipeline  
AP-1 (42" Outside Diameter)  
Typical Construction Right-of-Way In Wetlands**



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DRAWN BY: GIS

Figure F-4



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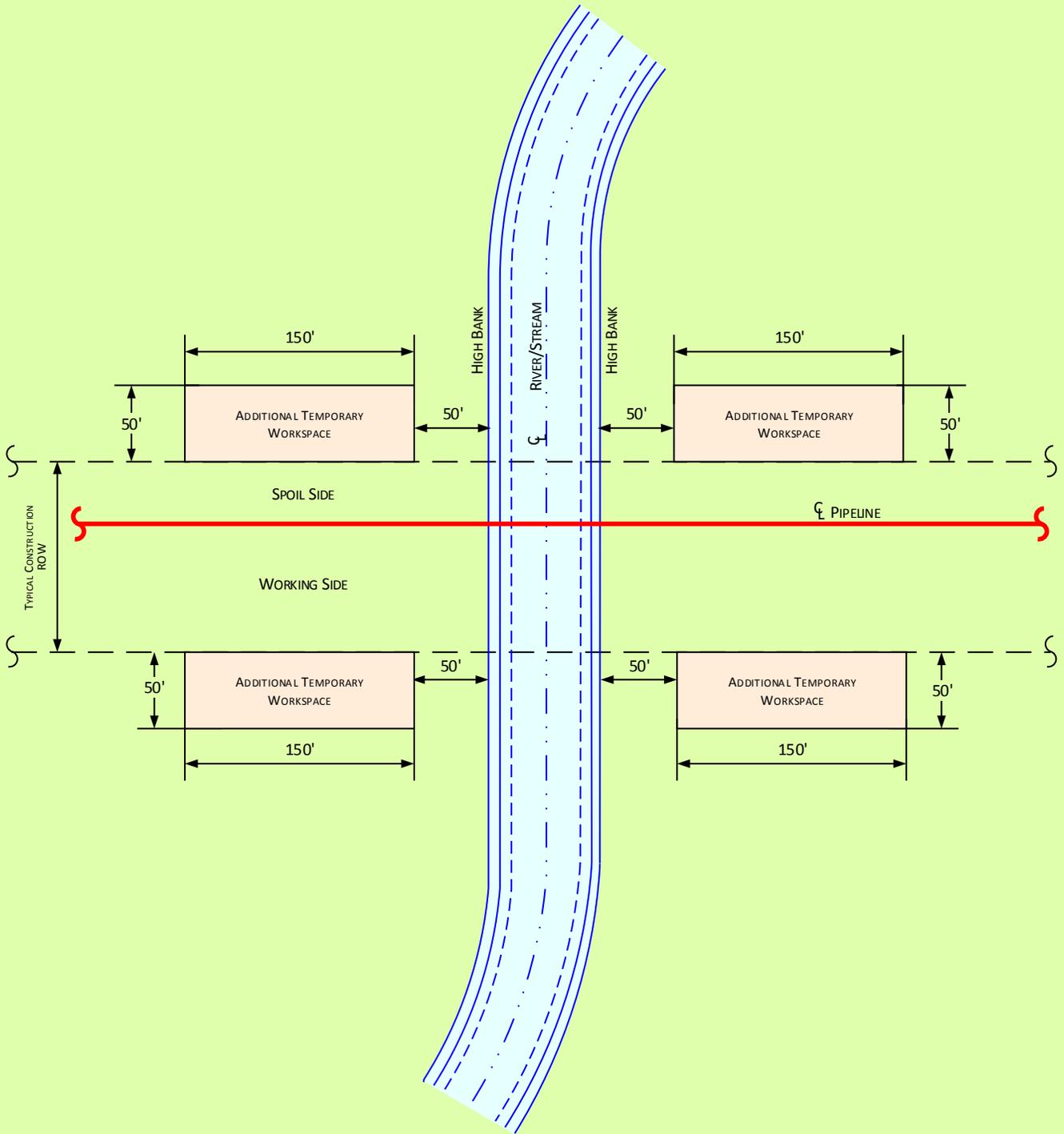


**Atlantic Coast Pipeline**  
**AP-1 (42" Outside Diameter)**  
 Typical Additional Temporary Workspace at  
 Wetland Crossings



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Figure F-5



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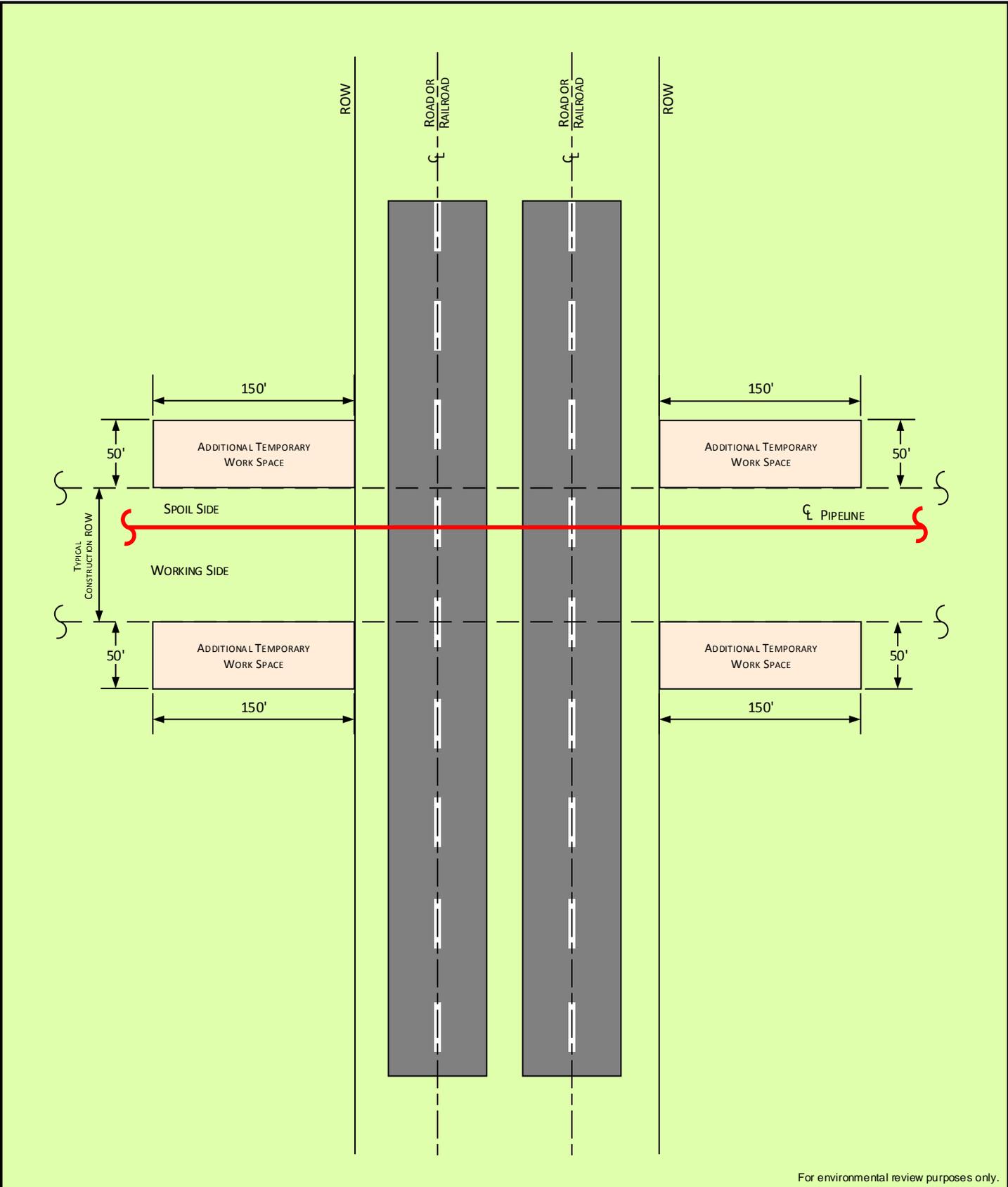


**Atlantic Coast Pipeline**  
**AP-1 (42" Outside Diameter)**  
 Typical Additional Temporary Workspace at  
 Waterbody Crossings Greater Than 10 Feet Wide



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Figure F-6



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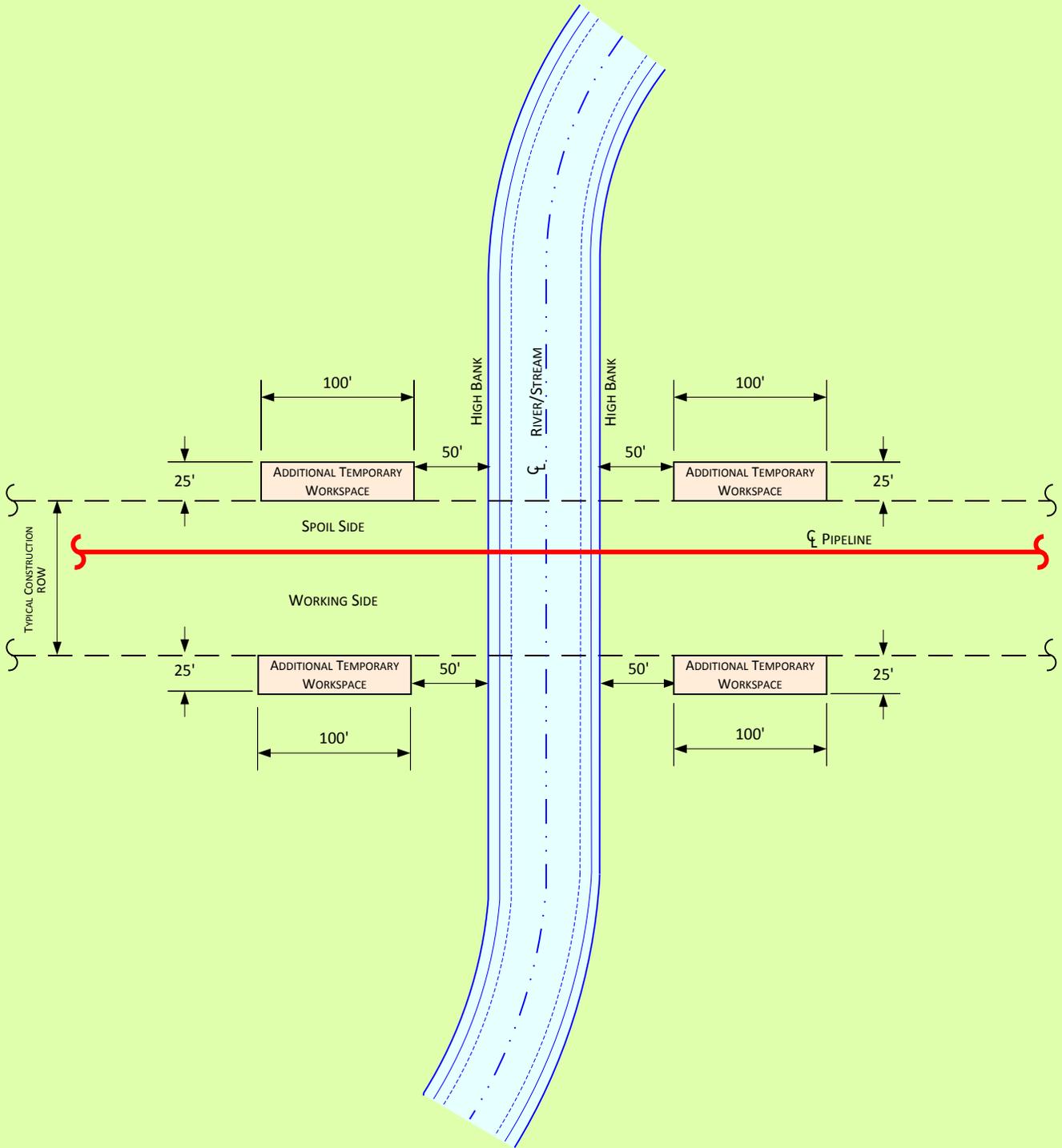


**Atlantic Coast Pipeline**  
**AP-1 (42" Outside Diameter)**  
 Typical Additional Temporary Workspace at Bored  
 Crossings for Two-Lane Roads and Railroads



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Figure F-7



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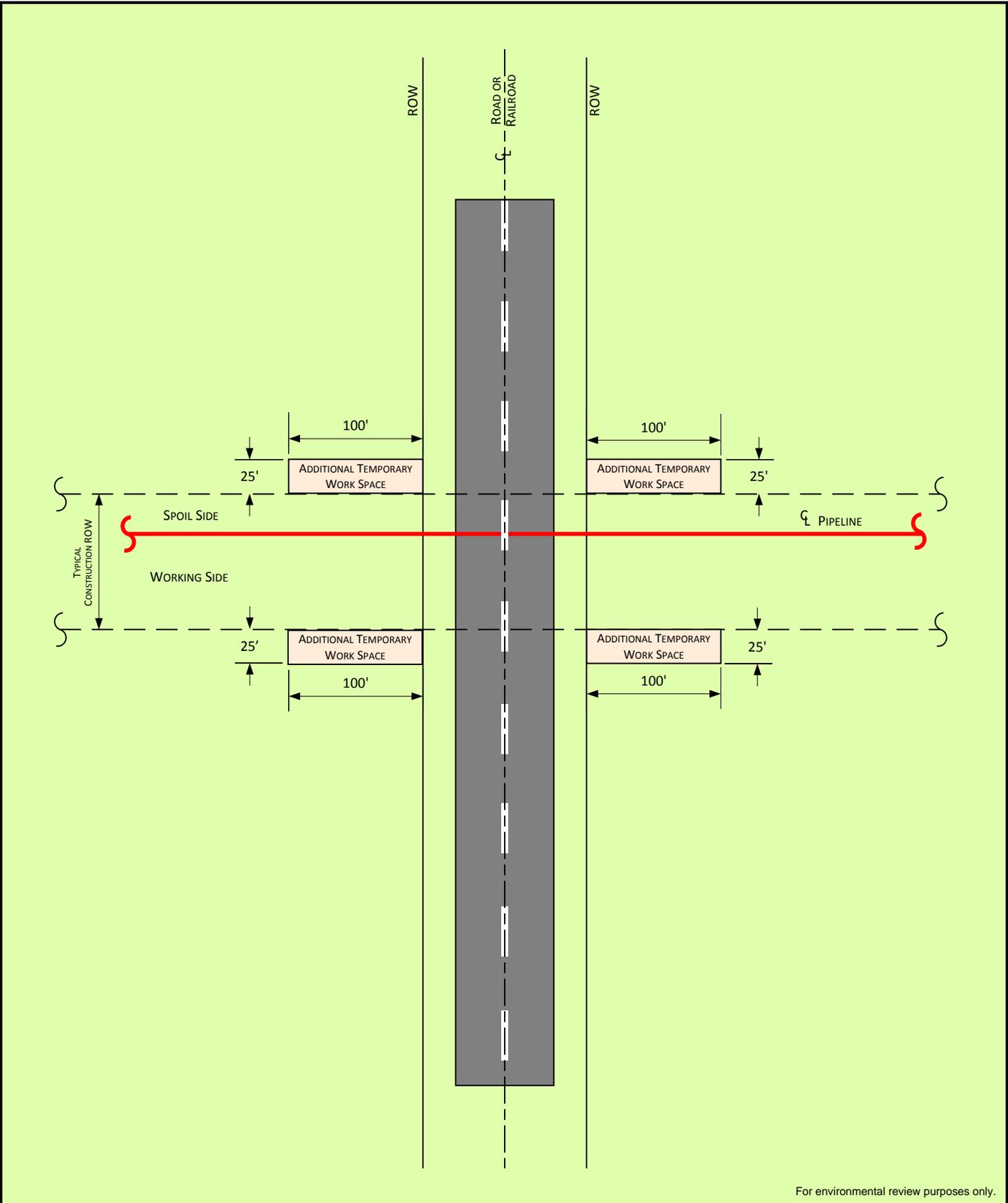


**Atlantic Coast Pipeline**  
**AP-1 (42" Outside Diameter)**  
 Typical Additional Workspace at Waterbodies Less Than 10 Feet Wide  
**AP-2 (36" Outside Diameter), AP-3 (20" Outside Diameter), and**  
**AP-4 and AP-5 (16" Outside Diameter)**  
 Typical Additional Workspace at All Waterbodies



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Figure F-8



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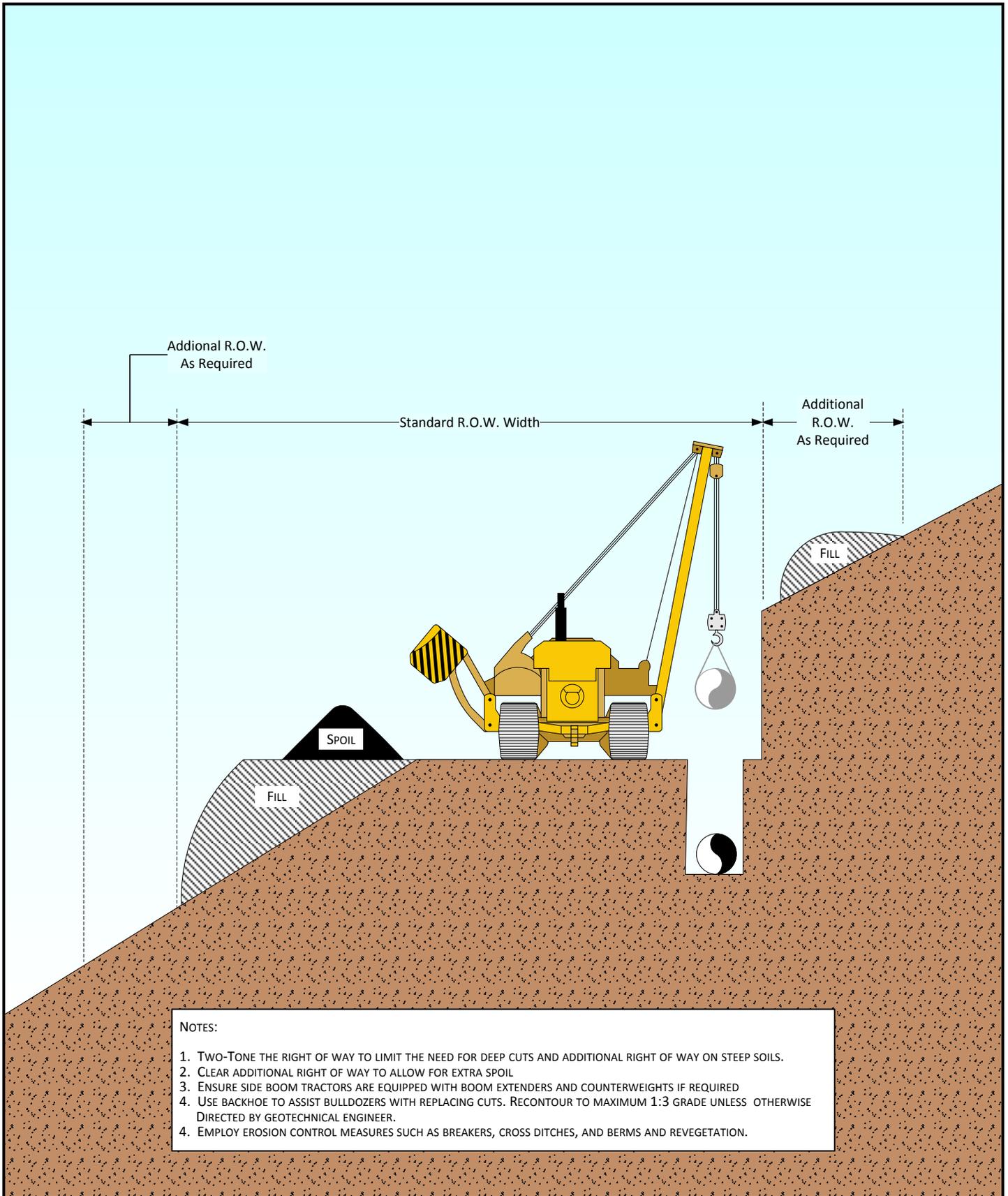


**Atlantic Coast Pipeline**  
**AP-1 (42" Outside Diameter)**  
 Typical Additional Temporary Workspace at Single-Lane Roads  
**AP-2 (36" Outside Diameter), AP-3 (20" Outside Diameter), and**  
**AP-4 and AP-5 (16" Outside Diameter)**  
 Typical Additional Workspace at all Bored Roads



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Figure F-9

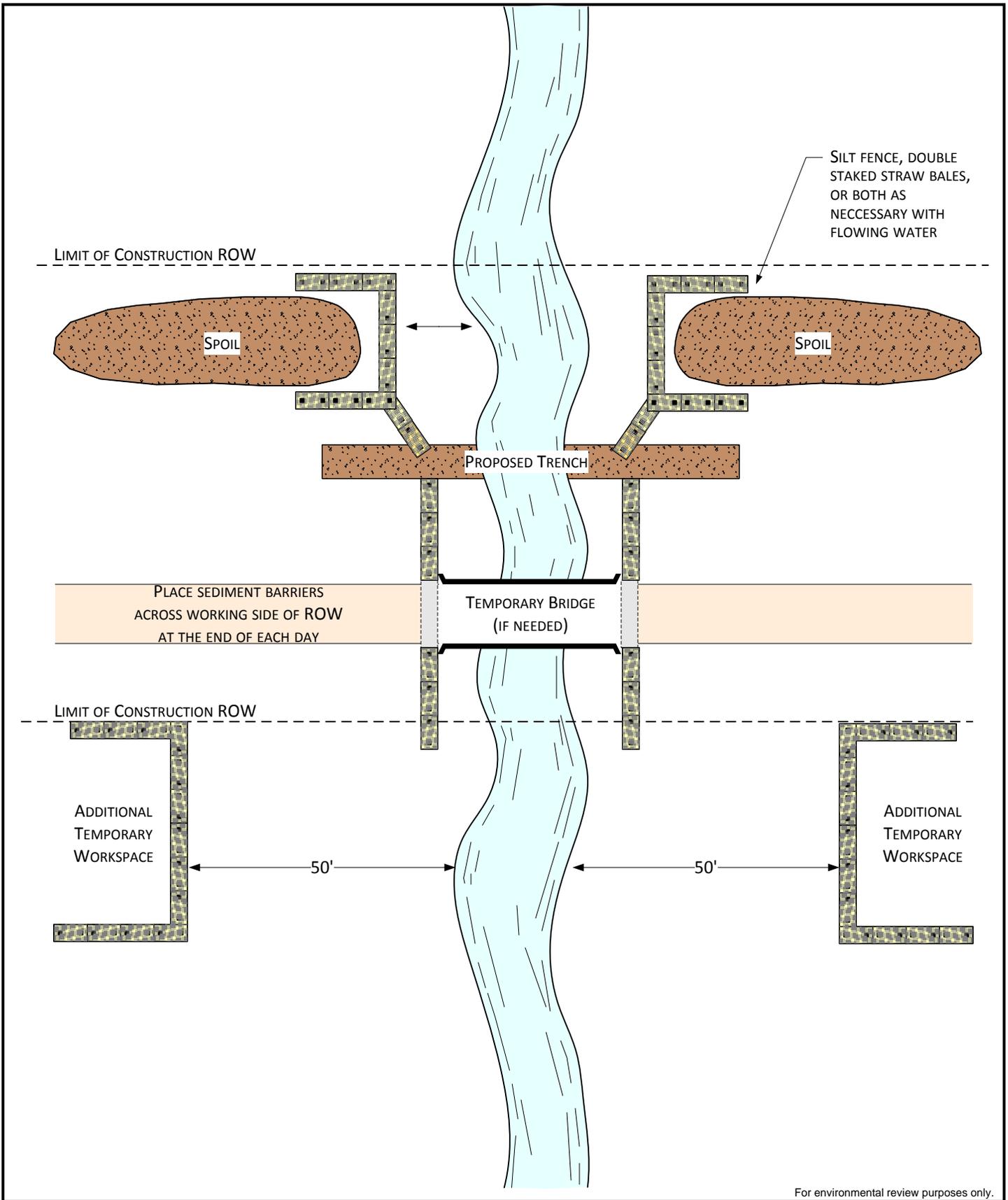


## Atlantic Coast Pipeline and Supply Header Projects Cut and Fill Construction



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Figure F-10



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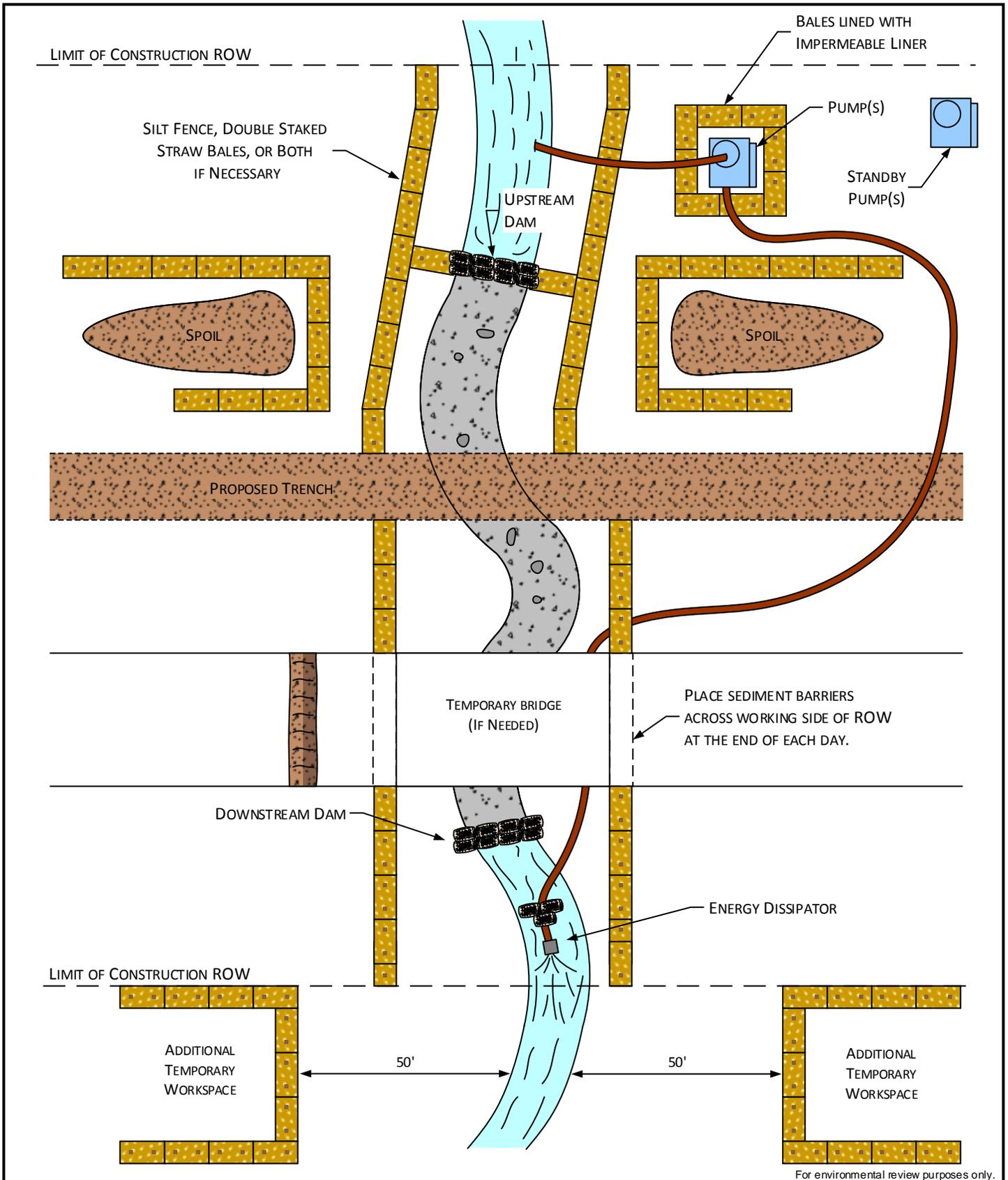
**Atlantic Coast Pipeline**  
**AP-1 (42" Outside Diameter), AP-2 (36" Outside Diameter),**  
**AP-3 (20" Outside Diameter), and**  
**AP-4 and AP-5 (16" Outside Diameter)**  
 Typical Waterbody Crossing  
 Open Cut Method



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Figure F-11





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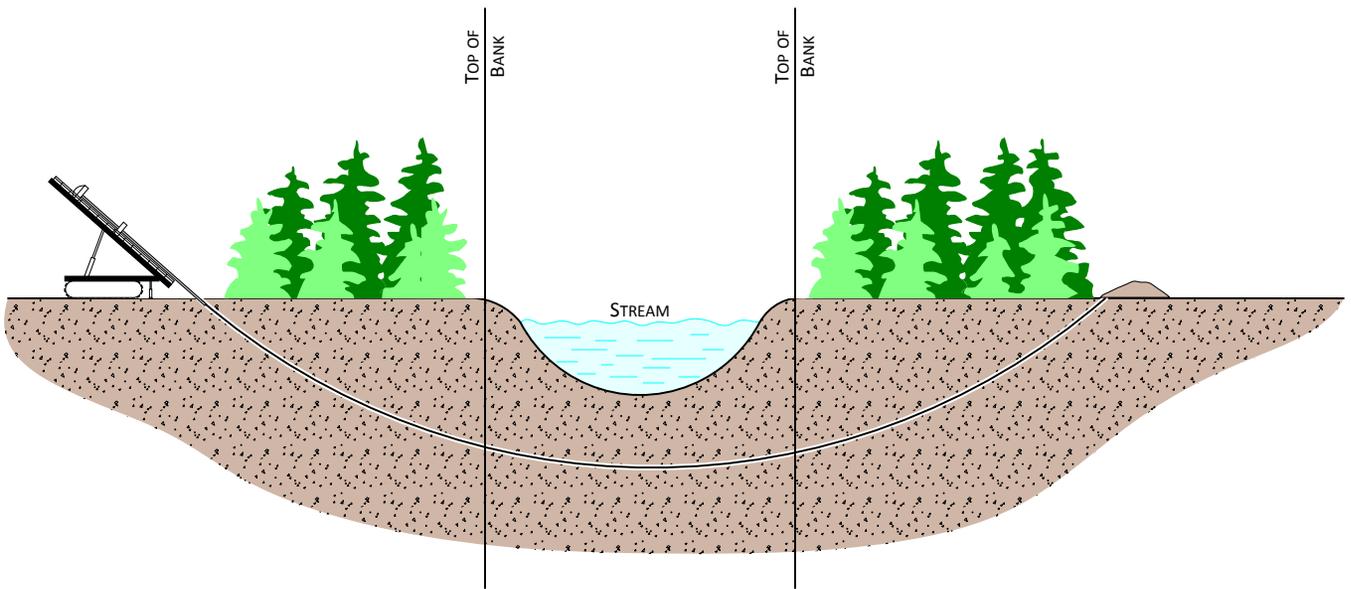


### Atlantic Coast Pipeline Typical Waterbody Crossing Dam and Pump Method



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Figure F-13



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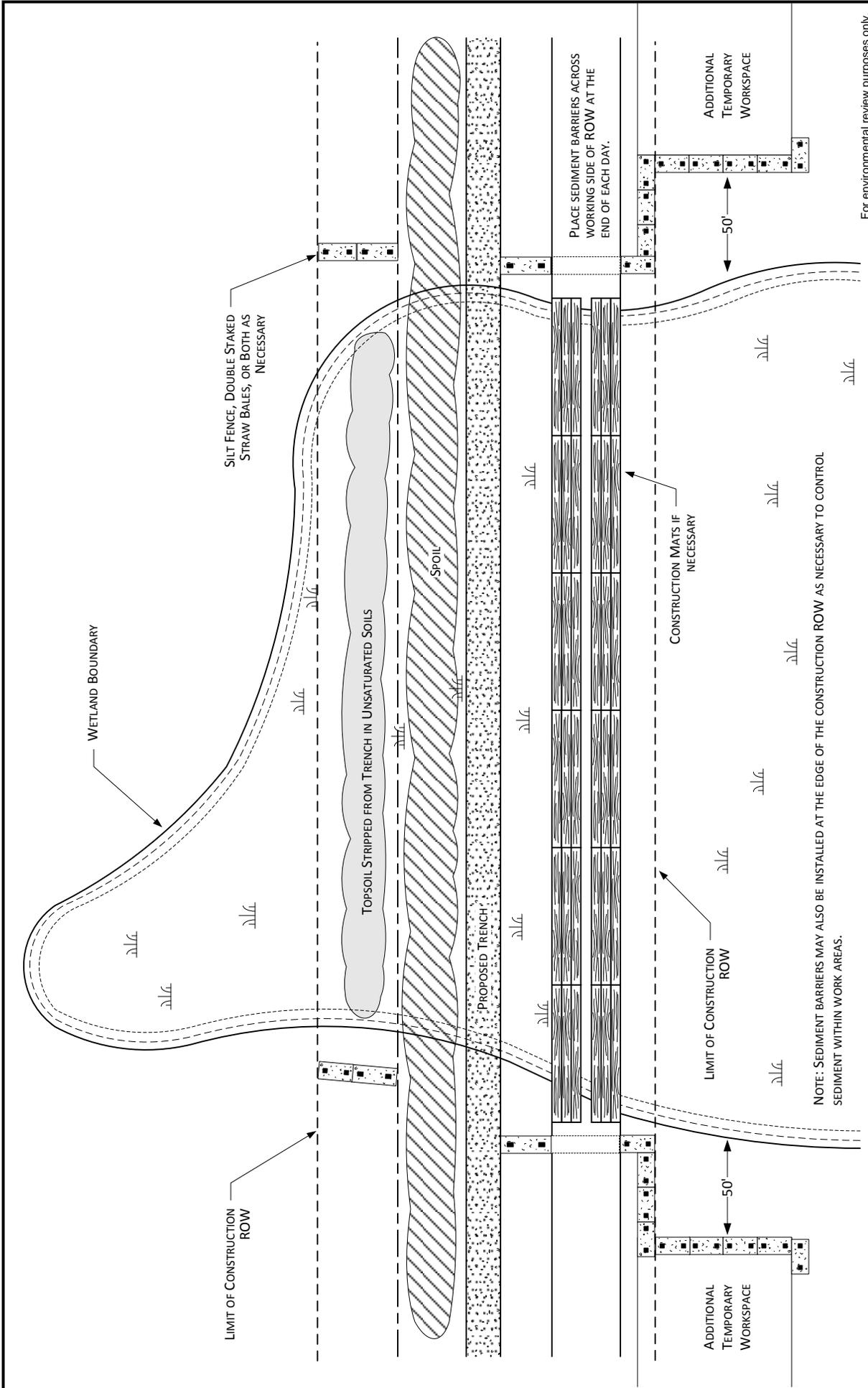
**Atlantic Coast Pipeline  
 AP-1 (42" Outside Diameter), AP-2 (36" Outside Diameter),  
 AP-3 (20" Outside Diameter), and  
 AP-4 and AP-5 (16" Outside Diameter)**

Typical Waterbody Crossing  
 Directional Drill Method



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Figure F-14



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**Atlantic Coast Pipeline**  
**AP-1 (42" Outside Diameter), AP-2 (36" Outside Diameter),**  
**AP-3 (20" Outside Diameter), and AP-4 and AP-5 (16" Outside Diameter)**  
 Typical Wetland Crossing  
 Open Cut Method



an ERM Group company  
 DRAWN BY: McGregor

Figure F-15

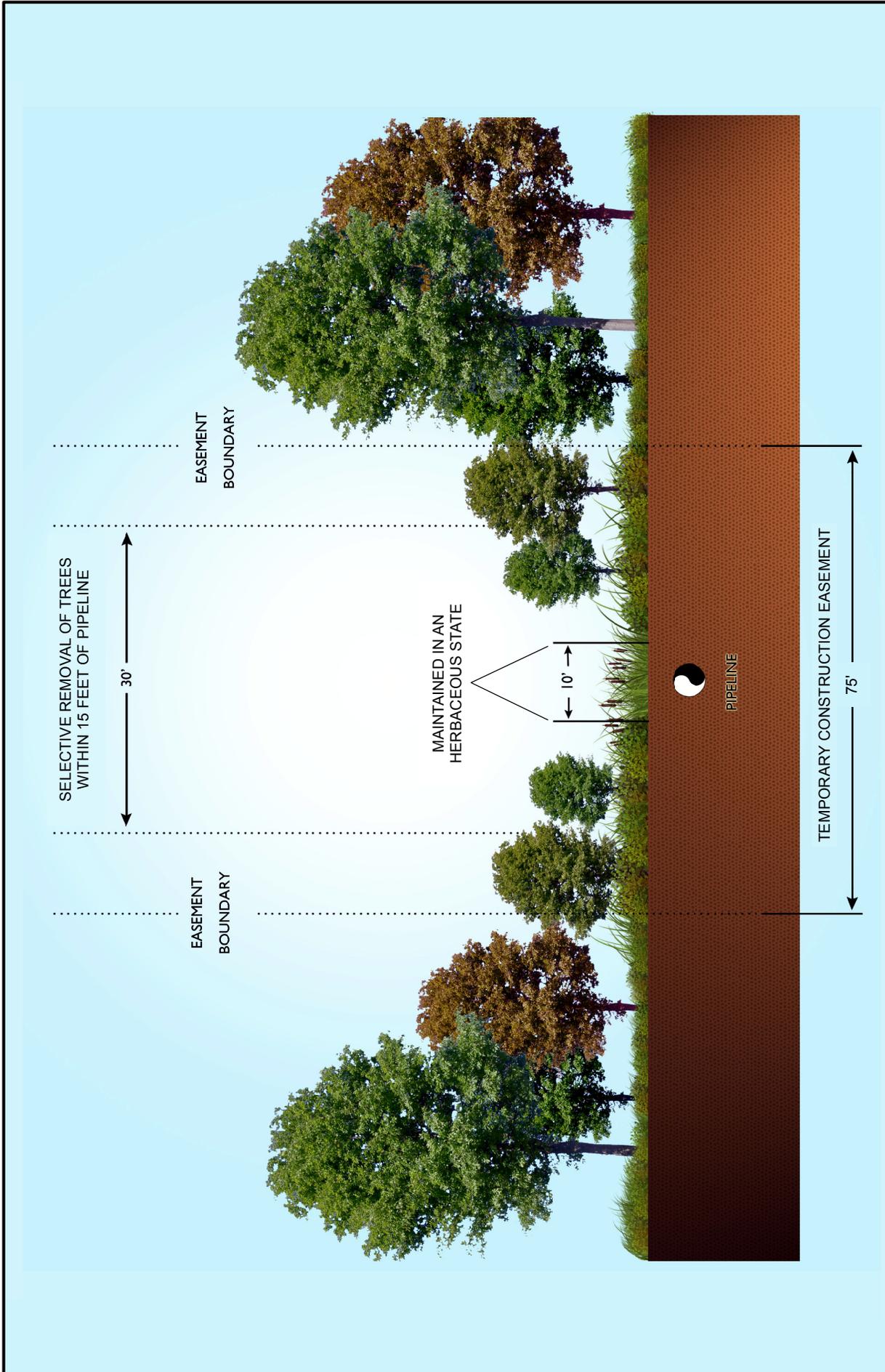


Figure F-16