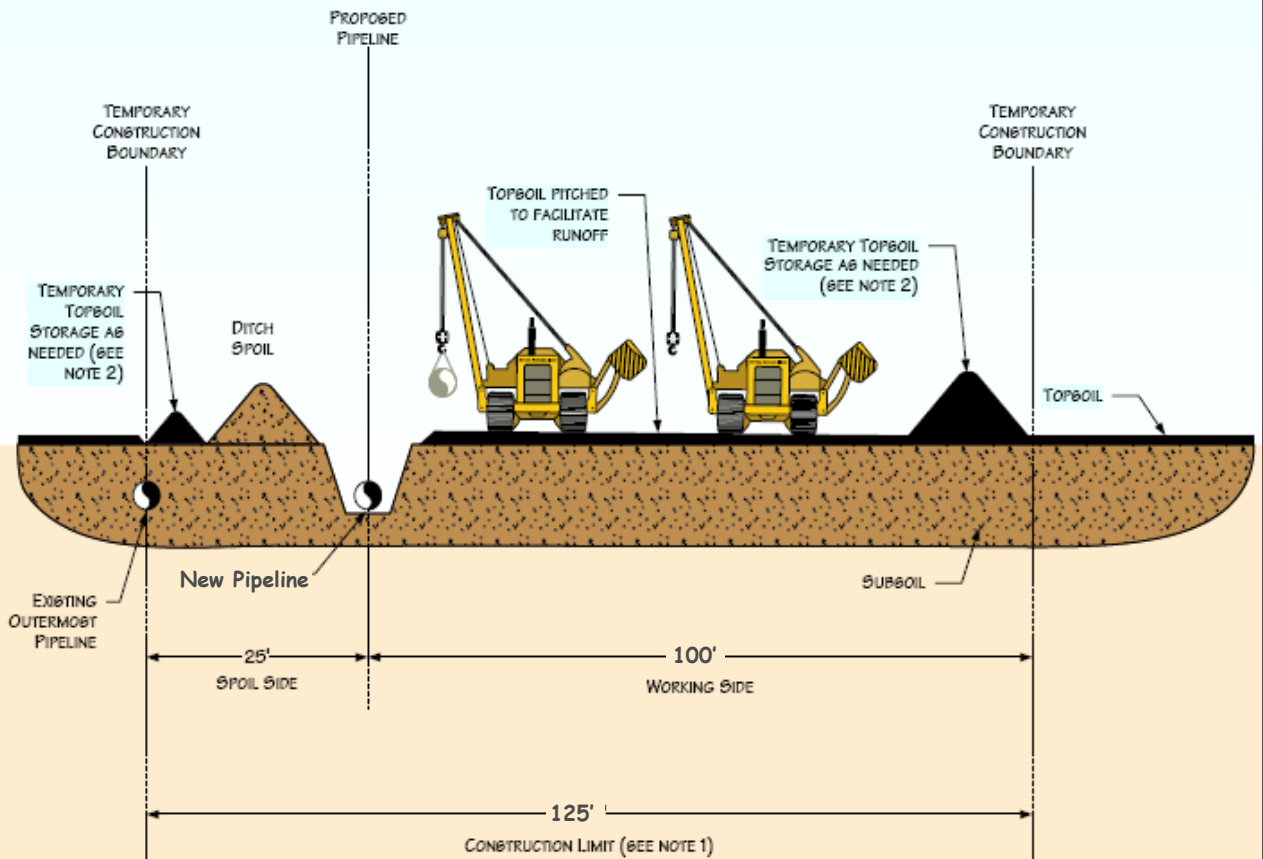


TAB 6 – Environmental Mitigation Plan Exhibits

- Figure 6.1.1 Typical Construction Layout
- Figure 6.1.2 Typical Topsoil Segregation – Ditch Plus Spoil Side
- Figure 6.1.3 Typical Topsoil Segregation – Full Right-of-Way
- Figure 6.1.4 Typical Topsoil Segregation – Trench Line Only
- Figure 6.1.5 Typical Temporary or Permanent Berms – Perspective View
- Figure 6.1.6 Typical Temporary or Permanent Berms – Elevation View
- Figure 6.1.7 Typical Silt Fence Installation
- Figure 6.1.8 Typical Straw Bale installation
- Figure 6.1.9 Typical Trench Breakers – Perspective View
- Figure 6.1.10 Typical Trench Breakers – Plan and Profile Views
- Figure 6.2.1 Typical Waterbody Crossing – Wet Trench Method
- Figure 6.2.2 Typical Waterbody Crossing – Dam and Pump Method
- Figure 6.2.3 Typical Waterbody Crossing – Flume Method
- Figure 6.2.4 Typical Waterbody Crossing – Directional Drill Method
- Figure 6.2.5 Typical Timber Mat Bridge
- Figure 6.2.6 Typical Rock and Flume Bridge
- Figure 6.2.7 Typical Dewatering Measures
- Figure 6.2.8 Typical Straw Bale Dewatering Structure
- Figure 6.3.1 Typical Wetland Crossing
- Figure 6.4.1 Typical Paved Road Crossing – Sediment Control
- Figure 6.7.1 Permanent Slope Breakers – Perspective View
- Figure 6.7.2 Erosion Control Blanket - Steep Slopes ($\geq 30\%$)
- Figure 6.7.3 Typical Final Stream Bank Stabilization – Rip Rap & Erosion Control



PROFILE

NOTES:

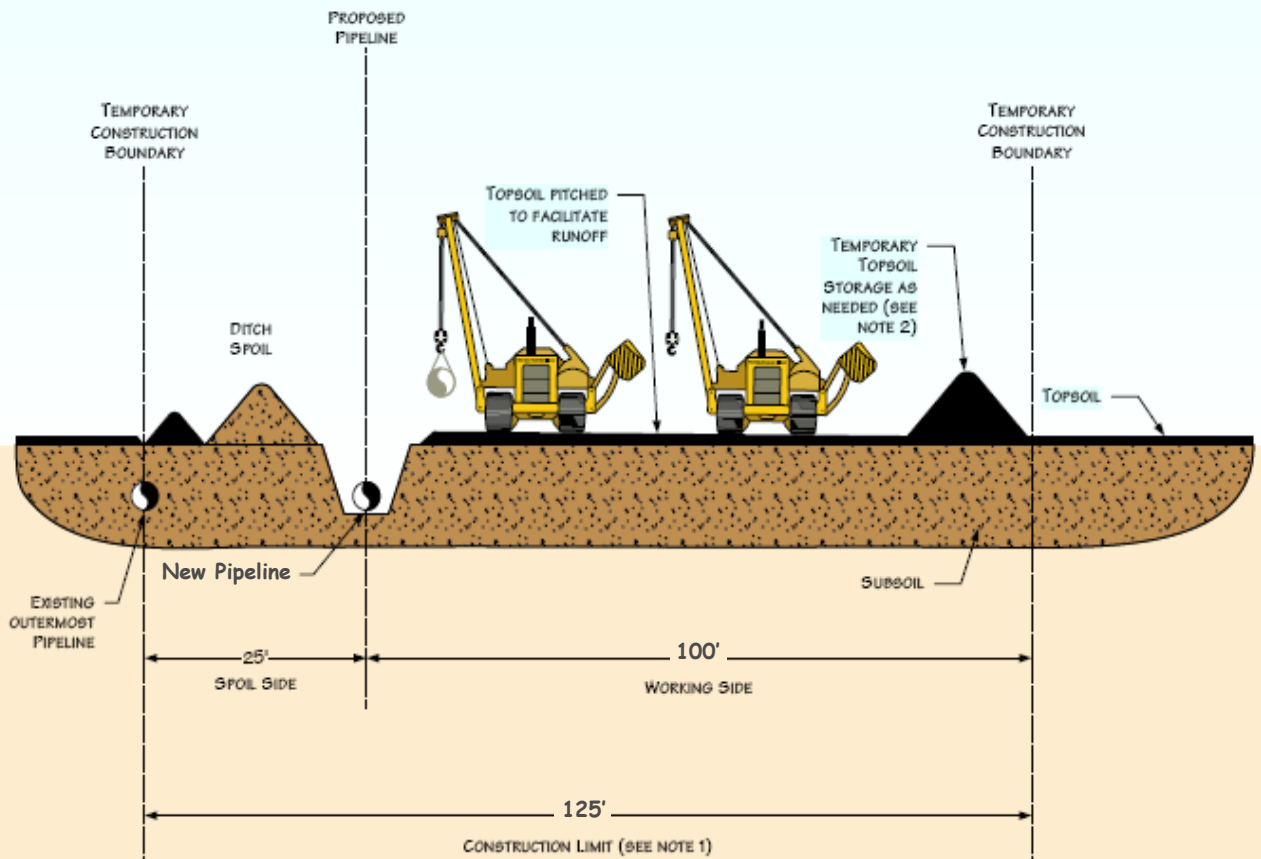
1. CONSTRUCTION LIMITS WILL TYPICALLY BE 125' WIDE. SPOIL SIDE WILL BE APPROXIMATELY 25' WIDE.
2. THIS DRAWING REFLECTS "DITCH PLUS SPOIL" SIDE TOPSOIL STRIPPING PROCEDURE. STOCKPILE TOPSOIL SEPARATELY FROM DITCH SPOIL SHOWN OR IN OTHER CONFIGURATION APPROVED BY COMPANY.
3. THE OFFSET FROM OUTERMOST EXISTING PIPELINE WILL BE 25' FOR MOST LOCATIONS BUT MAY BE INCREASED OR DECREASED DEPENDING ON THE SITE SPECIFIC CONSTRUCTION REQUIREMENTS.



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Figure 6.1.1 – Typical Construction Layout

6-inch Natural Gas Liquids Pipeline
 July 2011



PROFILE

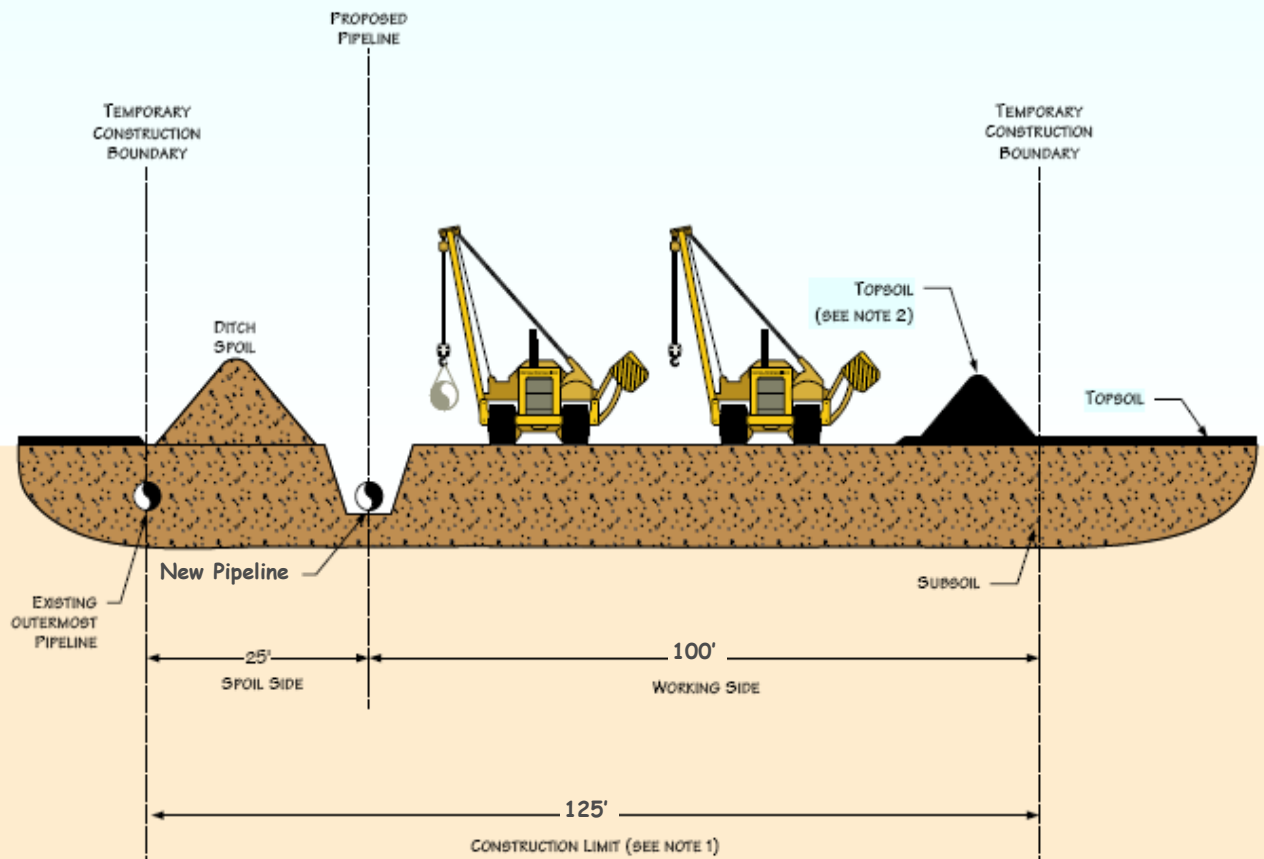
NOTES:

1. CONSTRUCTION LIMITS WILL TYPICALLY BE 125' WIDE. SPOIL SIDE WILL BE APPROXIMATELY 25' WIDE.
2. THIS DRAWING REFLECTS "DITCH PLUS SPOIL" SIDE TOPSOIL STRIPPING PROCEDURE. STOCKPILE TOPSOIL SEPARATELY FROM DITCH SPOIL SHOWN OR IN OTHER CONFIGURATION APPROVED BY COMPANY.
3. THE OFFSET FROM OUTERMOST EXISTING PIPELINE WILL BE 25' FOR MOST LOCATIONS BUT MAY BE INCREASED OR DECREASED DEPENDING ON THE SITE SPECIFIC CONSTRUCTION REQUIREMENTS.



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Figure 6.1.2 – Typical Topsoil Segregation
 Ditch Plus Spoil Side
 6-inch Natural Gas Liquids Pipeline
 July 2011



PROFILE

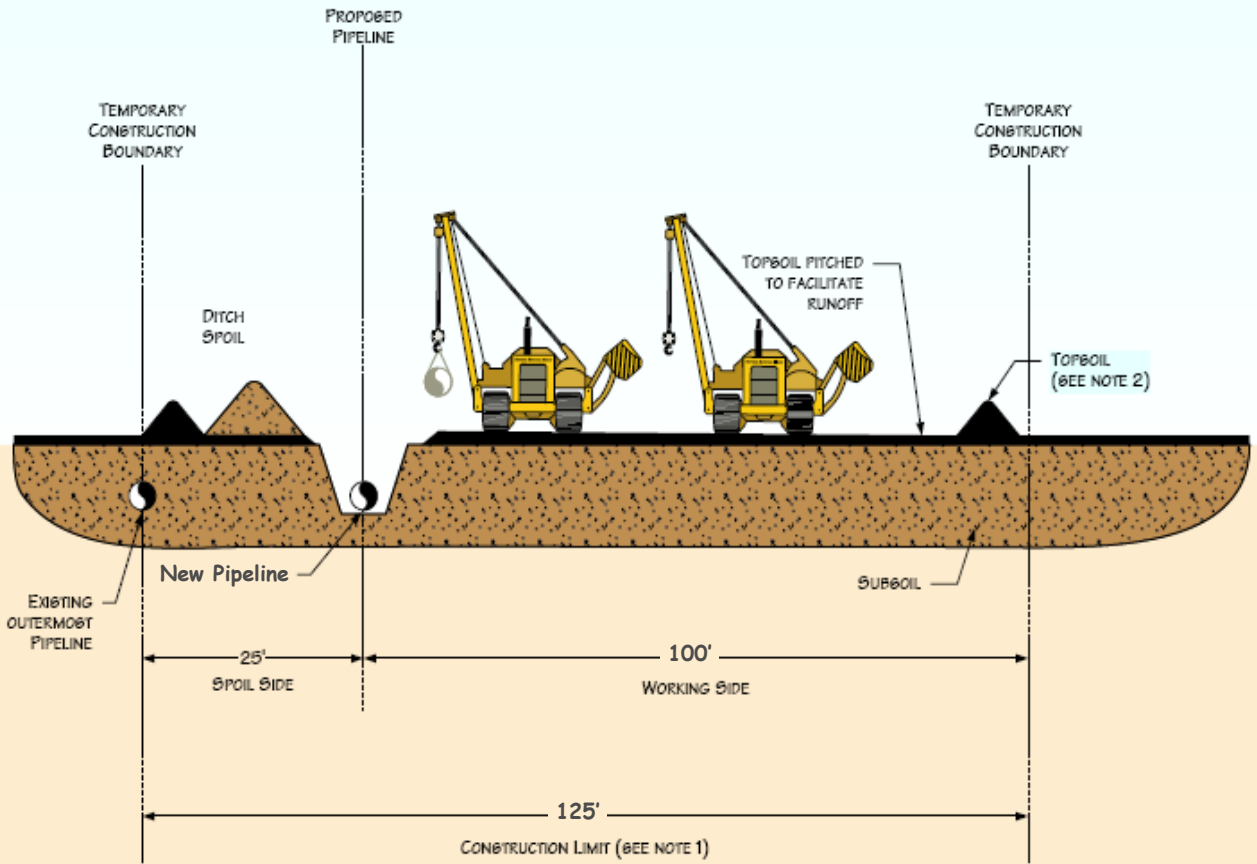
NOTES:

1. CONSTRUCTION LIMITS WILL TYPICALLY BE 125' WIDE. SPOIL SIDE WILL BE APPROXIMATELY 25' WIDE.
2. THIS DRAWING REFLECTS "FULL RIGHT OF WAY" TOPSOIL STRIPPING PROCEDURE. STOCKPILE TOPSOIL SEPARATELY FROM DITCH SPOIL SHOWN OR IN OTHER CONFIGURATION APPROVED BY COMPANY.
3. THE OFFSET FROM OUTERMOST EXISTING PIPELINE WILL BE 25' FOR MOST LOCATIONS BUT MAY BE INCREASED OR DECREASED DEPENDING ON THE SITE SPECIFIC CONSTRUCTION REQUIREMENTS.



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Figure 6.1.3 – Typical Topsoil Segregation
 Full Right-of-Way
 6-inch Natural Gas Liquids Pipeline
 July 2011



PROFILE

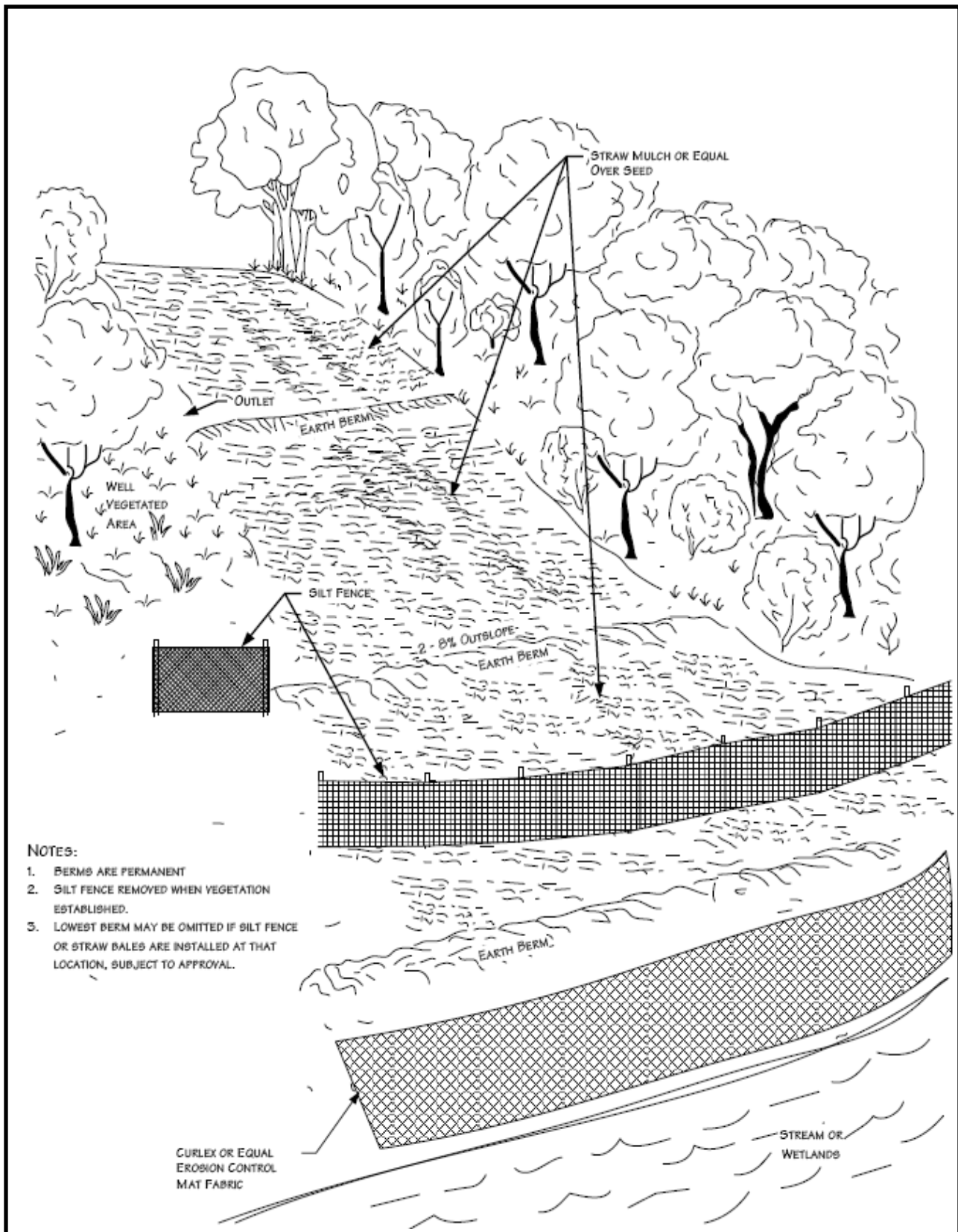
NOTES:

1. CONSTRUCTION LIMITS WILL TYPICALLY BE 125' WIDE. SPOIL SIDE WILL BE APPROXIMATELY 25' WIDE.
2. THIS DRAWING REFLECTS "TRENCH LINE ONLY" TOPSOIL STRIPPING PROCEDURE. STOCKPILE TOPSOIL SEPARATELY FROM DITCH SPOIL SHOWN OR IN OTHER CONFIGURATION APPROVED BY COMPANY.
3. THE OFFSET FROM OUTERMOST EXISTING PIPELINE WILL BE 25' FOR MOST LOCATIONS BUT MAY BE INCREASED OR DECREASED DEPENDING ON THE SITE SPECIFIC CONSTRUCTION REQUIREMENTS.



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Figure 6.1.4 – Typical Topsoil Segregation
 Trench Line Only
 6-inch Natural Gas Liquids Pipeline
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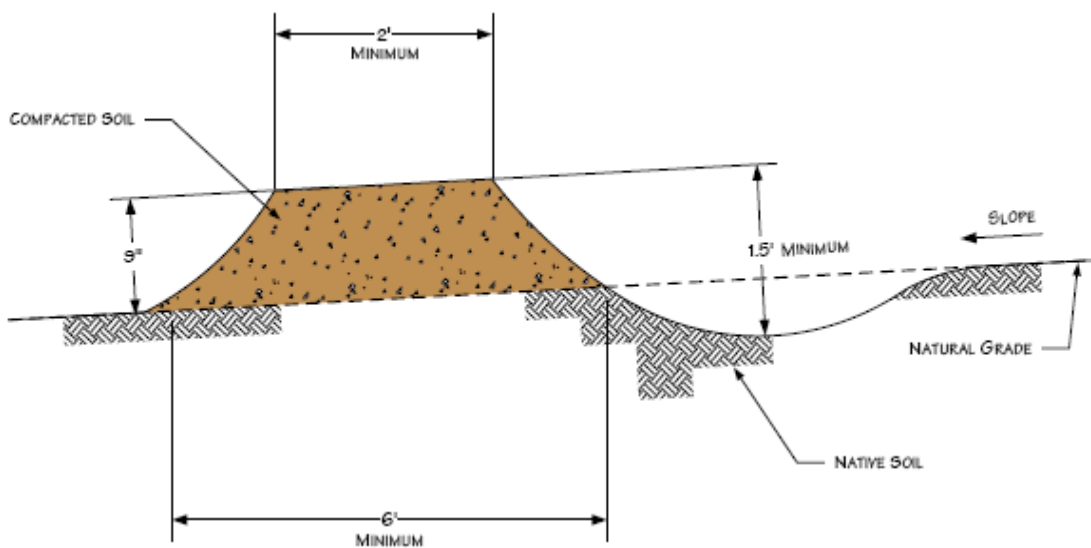
NOTES:

1. BERMS ARE PERMANENT
2. SILT FENCE REMOVED WHEN VEGETATION ESTABLISHED.
3. LOWEST BERM MAY BE OMITTED IF SILT FENCE OR STRAW BALES ARE INSTALLED AT THAT LOCATION, SUBJECT TO APPROVAL.



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Figure 6.1.5 – Typical Temporary or Permanent Berms-Perspective View
 6-inch Natural Gas Liquids Pipeline
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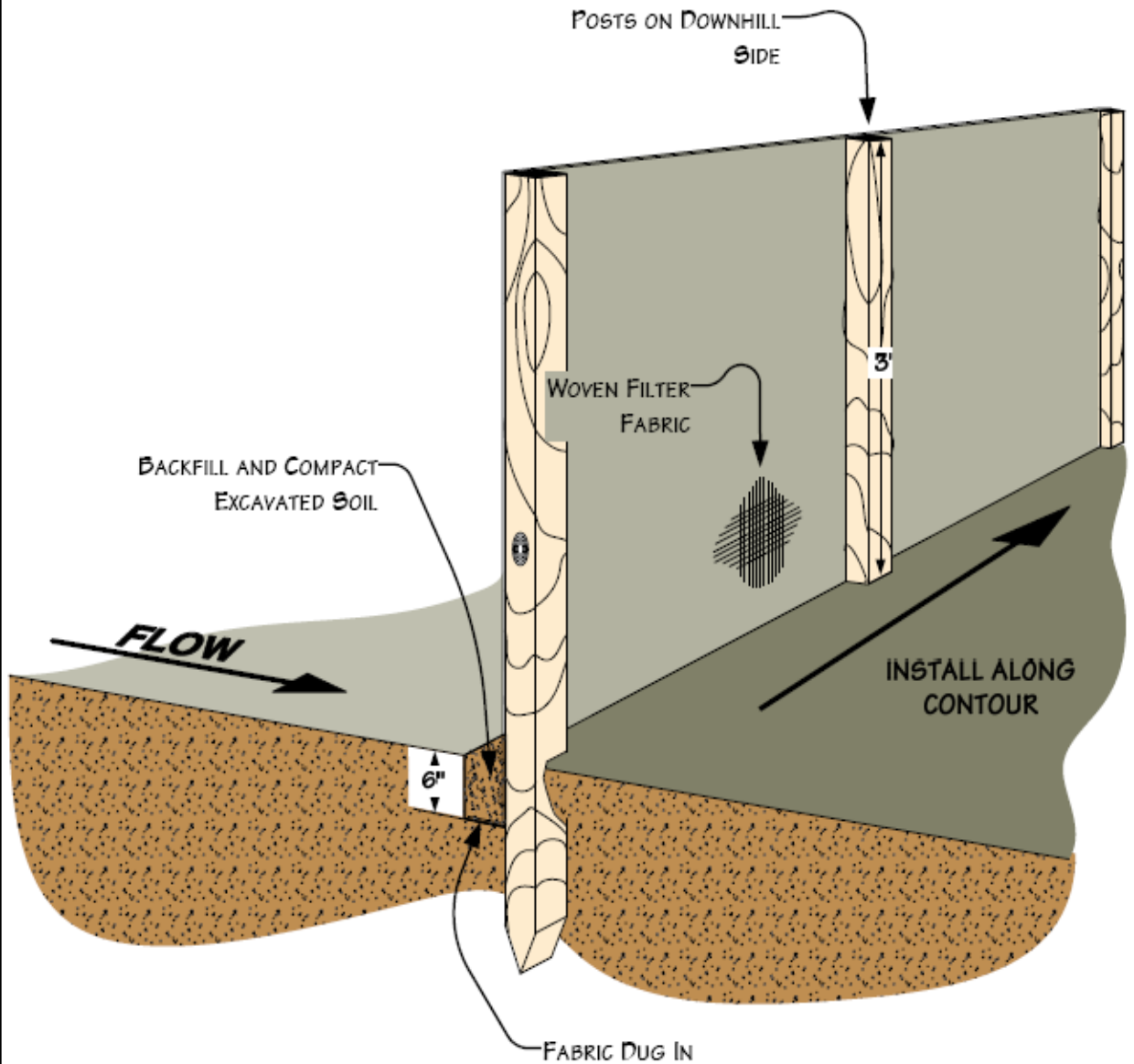
NOTES

1. BERMS SHALL BE CONSTRUCTED WITH 2 TO 3 PERCENT OUTSLOPE.
2. BERMS SHALL BE OUTLETED TO WELL VEGETATED STABLE AREAS, SILT FENCES, STRAW/HAY BALES OR ROCK APRONS.
3. BERMS SHALL BE SPACED AS DESCRIBED IN CONSTRUCTION SPECIFICATIONS.
4. ADDITIONAL INFORMATION INCLUDED ON OTHER DRAWINGS.



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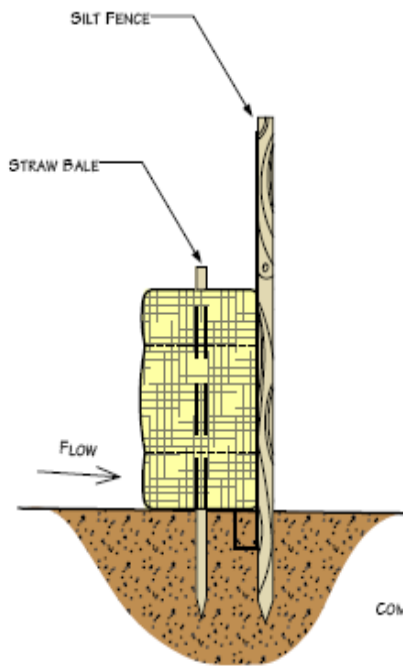
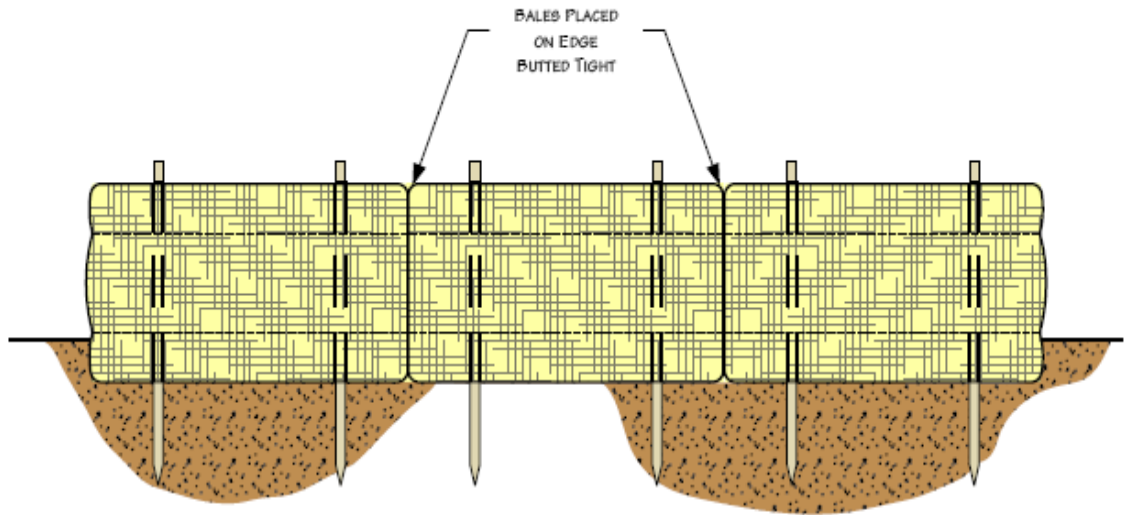
Figure 6.1.6 – Typical Temporary or Permanent Berm-Elevation View
 6-inch Natural Gas Liquids Pipeline
 July 2011



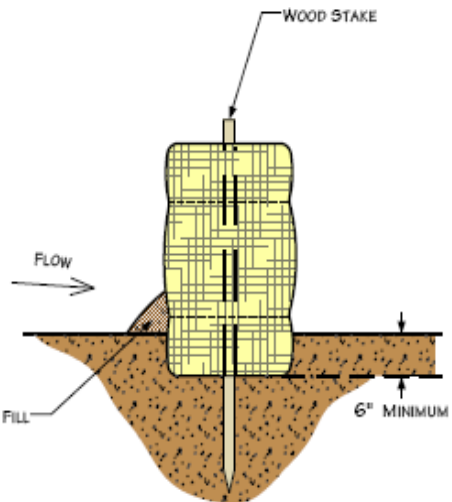
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Figure 6.1.7 – Typical Silt Fence Installation

6-inch Natural Gas Liquids Pipeline
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STRAW/HAY BALES & SILT FENCE



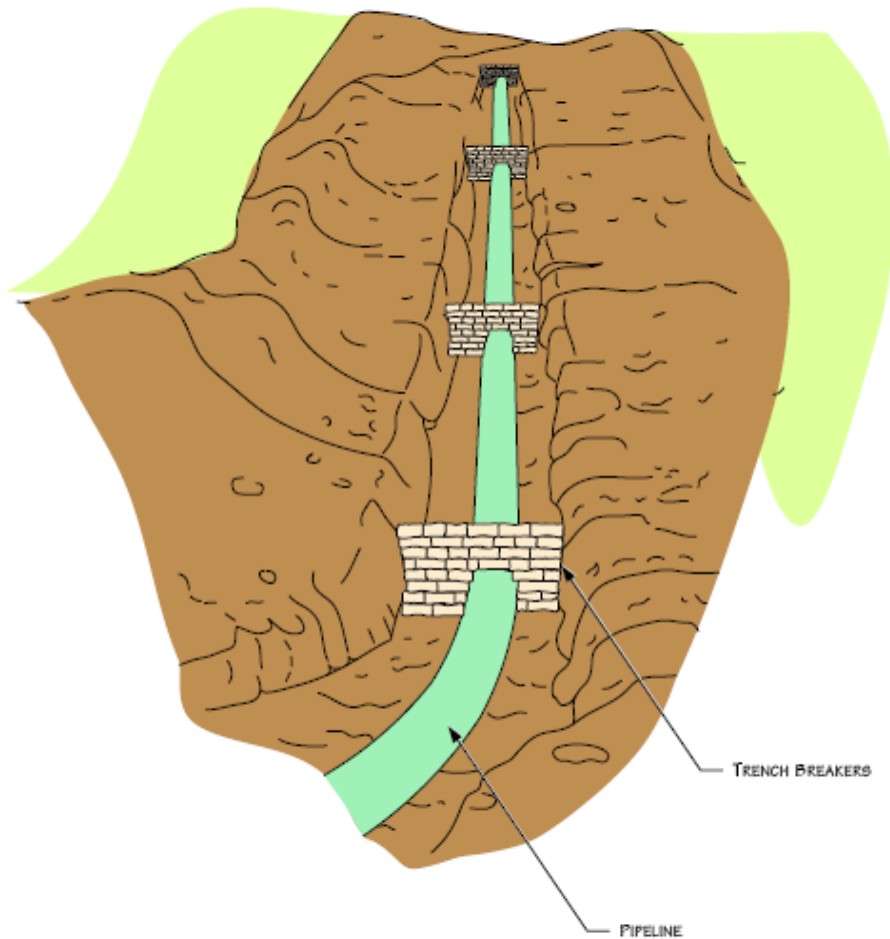
STRAW/HAY BALES ONLY



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Figure 6.1.8– Typical Straw Bale Installation

6-inch Natural Gas Liquids Pipeline
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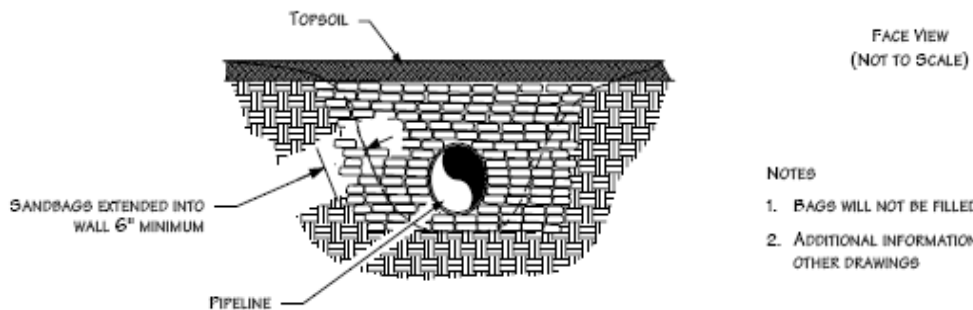
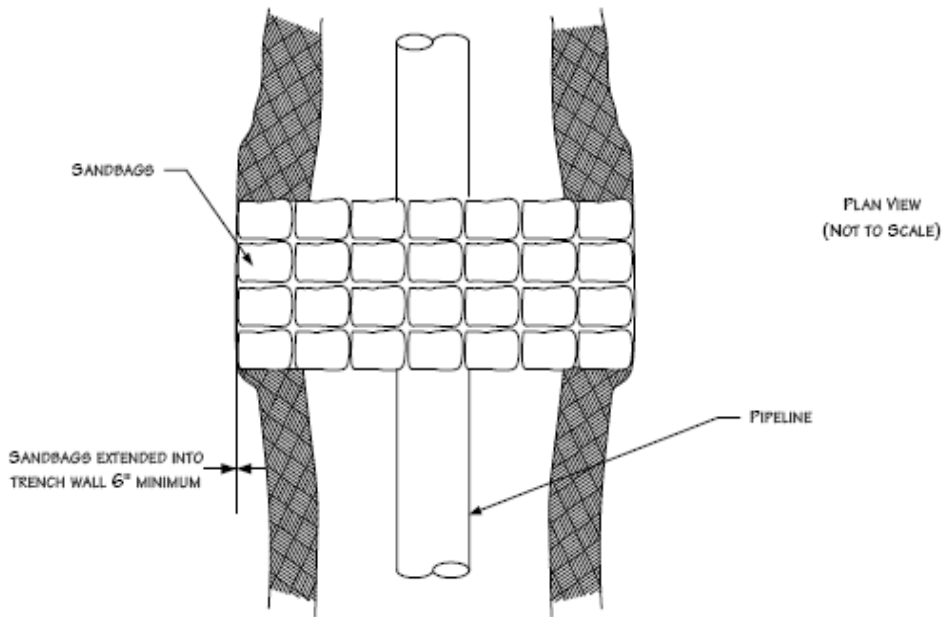
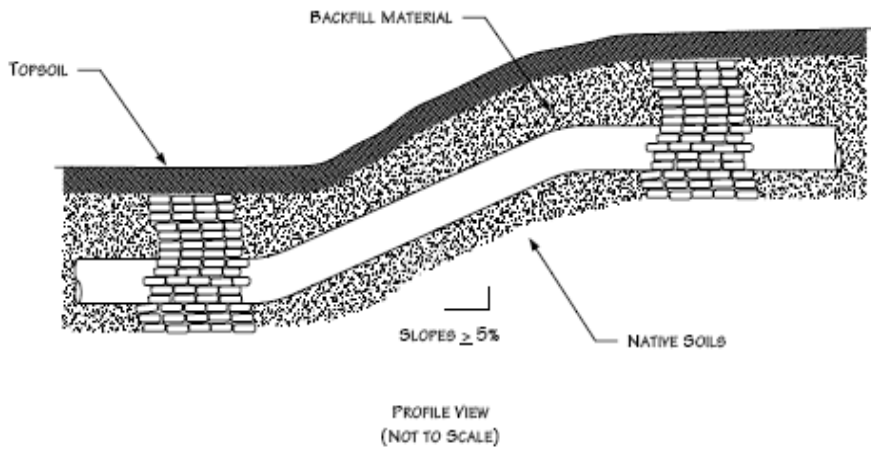
NOTES

1. BAGS WILL NOT BE FILLED WITH TOPSOIL.
2. ADDITIONAL INFORMATION INCLUDED ON OTHER DRAWINGS.



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Figure 6.1.9 –Typical Trench Breaker
Perspective View
6-inch Natural Gas Liquids Pipeline
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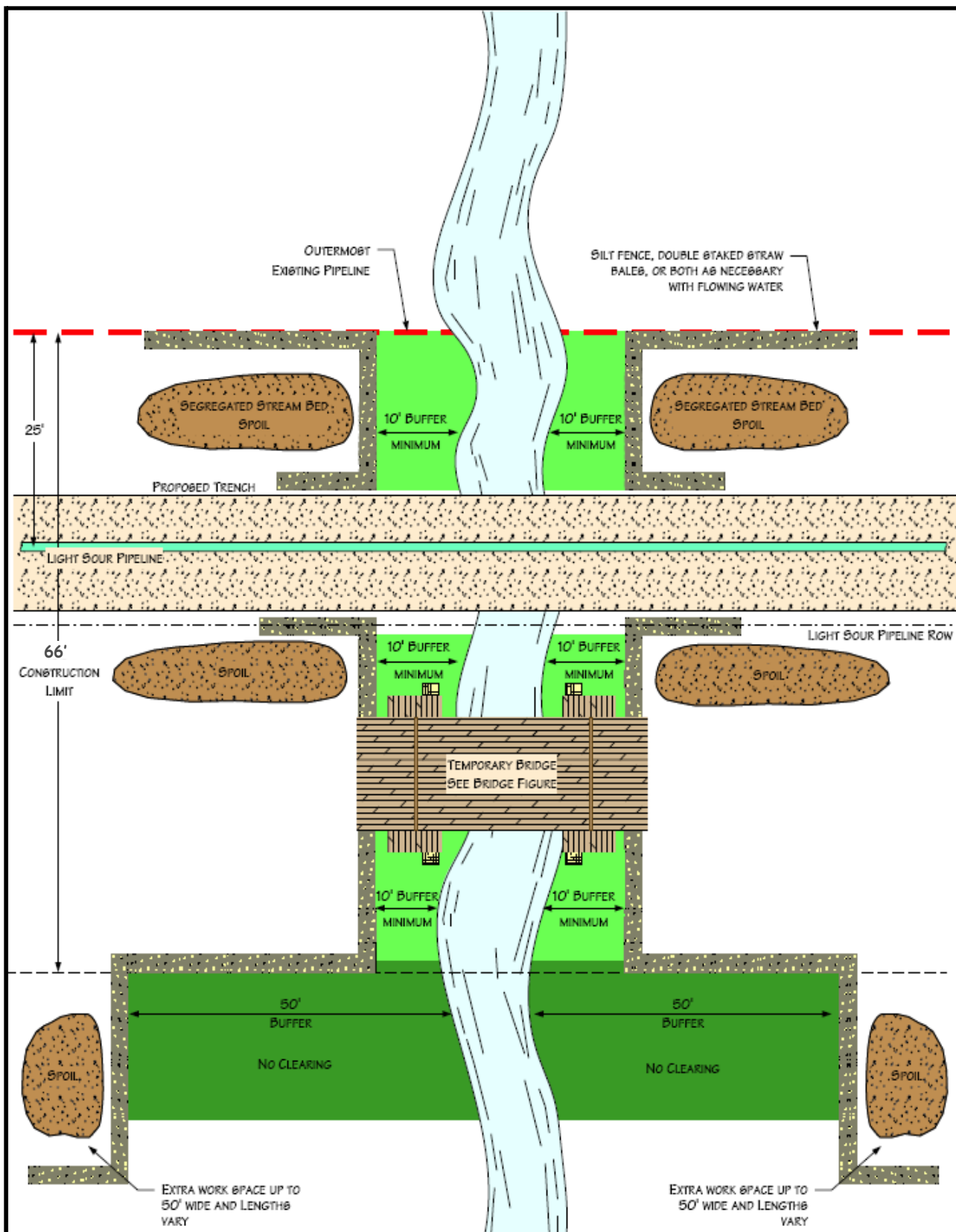
NOTES

1. BAGS WILL NOT BE FILLED WITH TOPSOIL
2. ADDITIONAL INFORMATION INCLUDED ON OTHER DRAWINGS



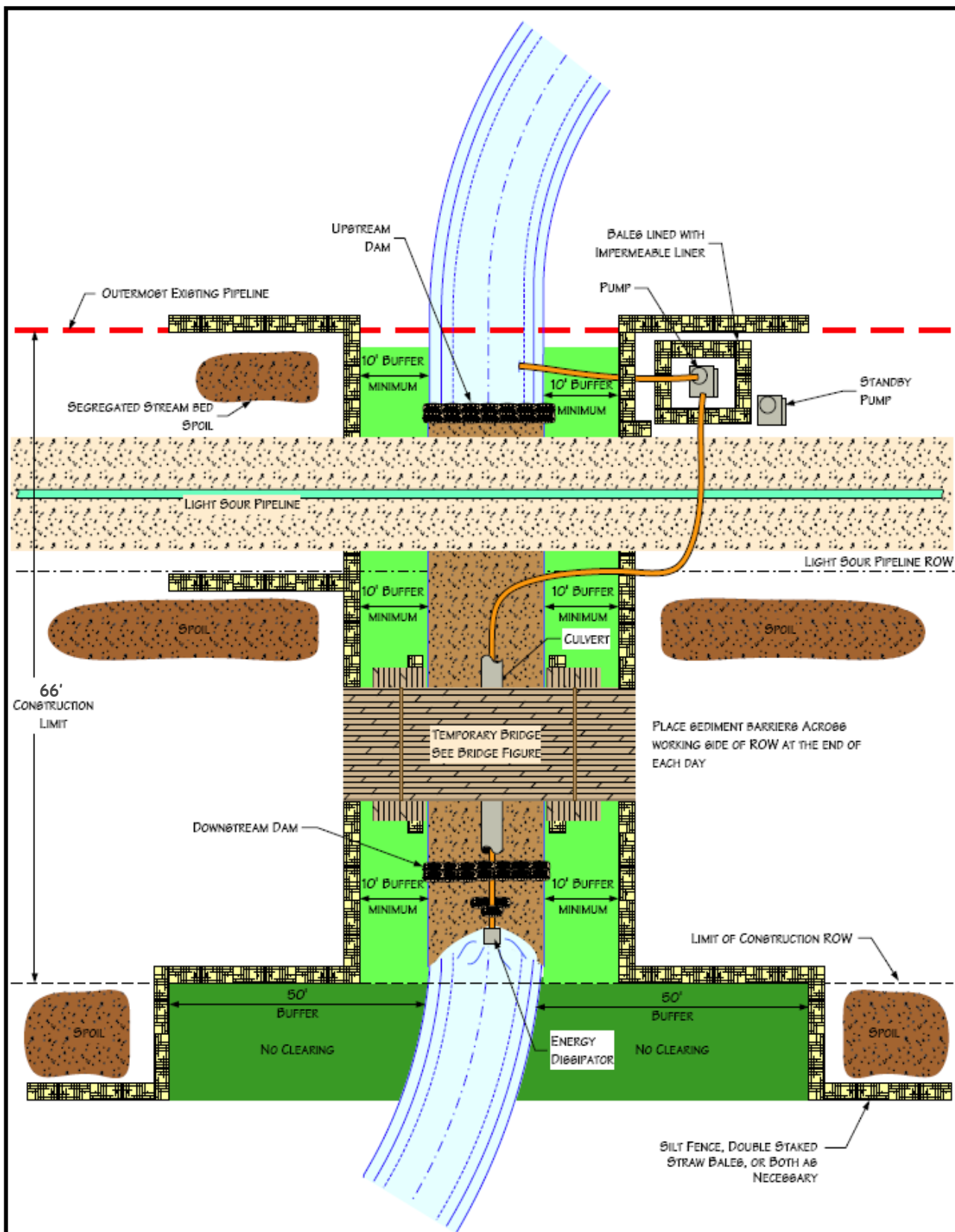
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Figure 6.1.10 – Typical Trench Breaker
 Plan and Profile View
 6-inch Natural Gas Liquids Pipeline
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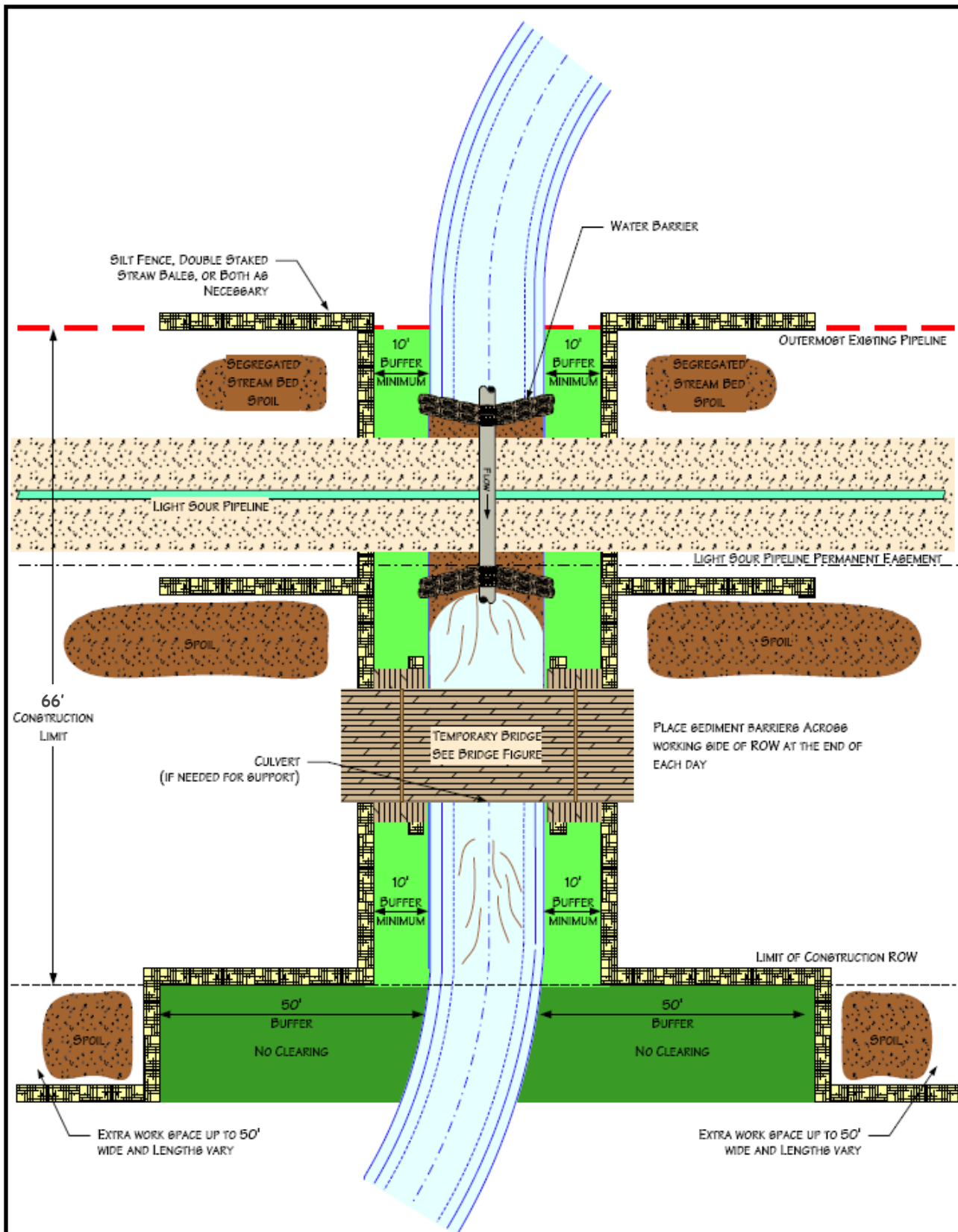
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Figure 6.2.1 – Typical Waterbody Crossing
 Wet Trench Method
 6-inch Natural Gas Liquids Pipeline
 July 2011



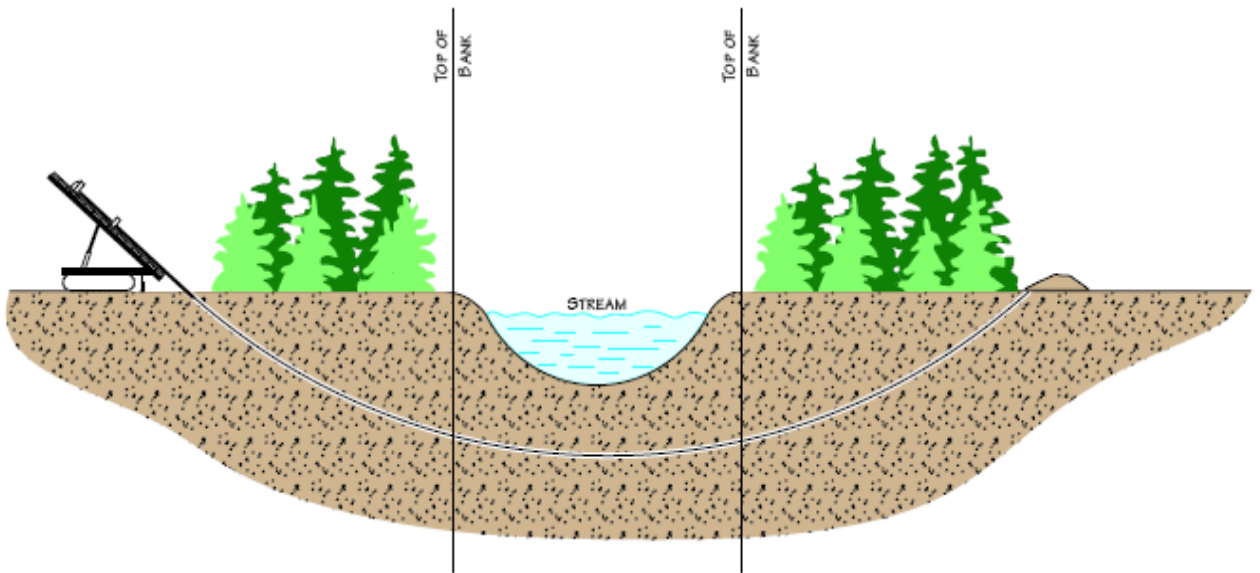
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Figure 6.2.2 – Typical Waterbody Crossing Dam and Pump Method
 6-inch Natural Gas Liquids Pipeline
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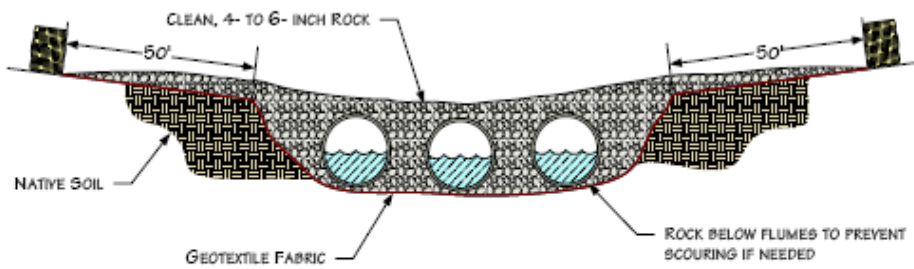
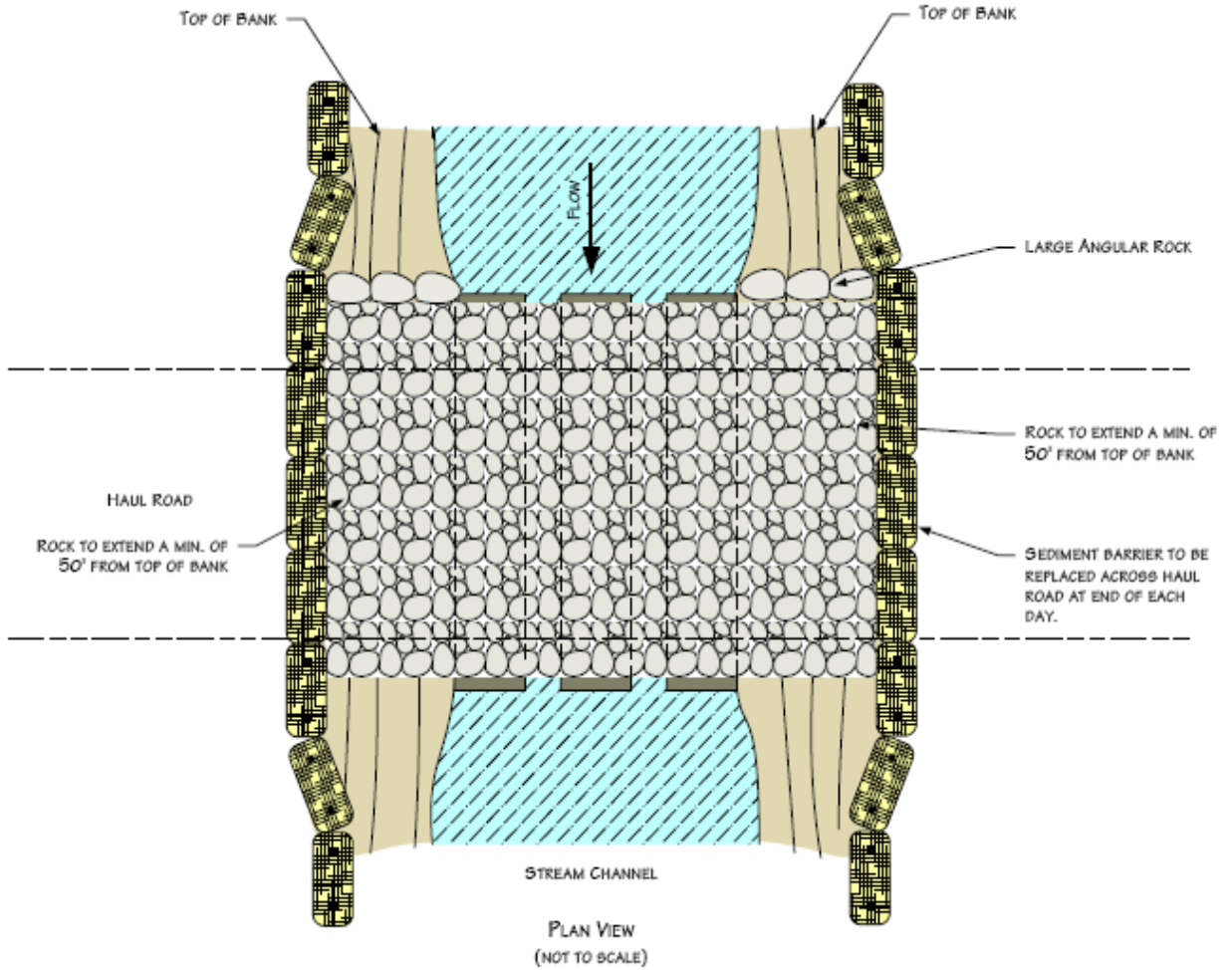
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Figure 6.2.3 – Typical Waterbody Crossing
 Flume Method
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Figure 6.2.4 –Typical Waterbody Crossing
Directional Drill Method
6-inch Natural Gas Liquids Pipeline
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NOTES:

1. STEEL FLUME PIPE(S) SIZED TO ALLOW FOR STREAM FLOW AND EQUIPMENT LOAD.
2. STRAW BALES SHALL BE PLACED ACROSS BRIDGE ENTRANCE EVERY NIGHT.
3. ADDITIONAL INFORMATION INCLUDED ON OTHER DRAWINGS.



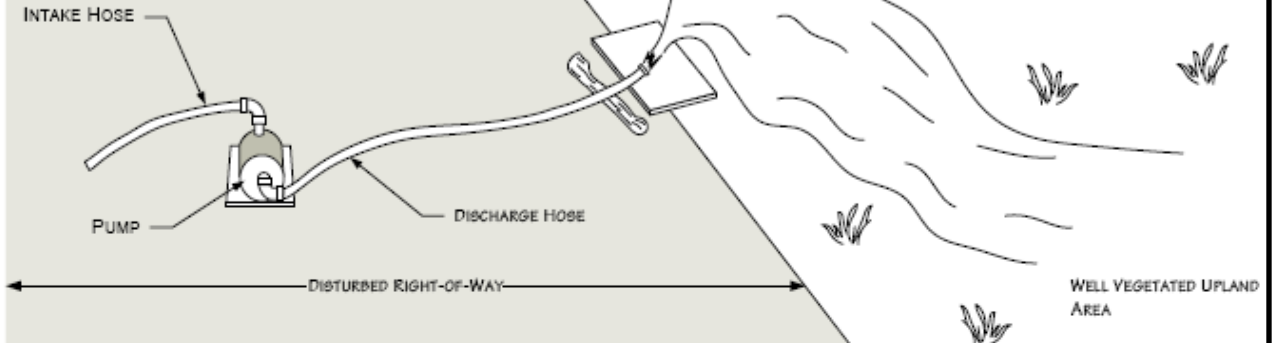
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Figure 6.2.6 – Typical Rock Flume Bridge
 6-inch Natural Gas Liquids Pipeline
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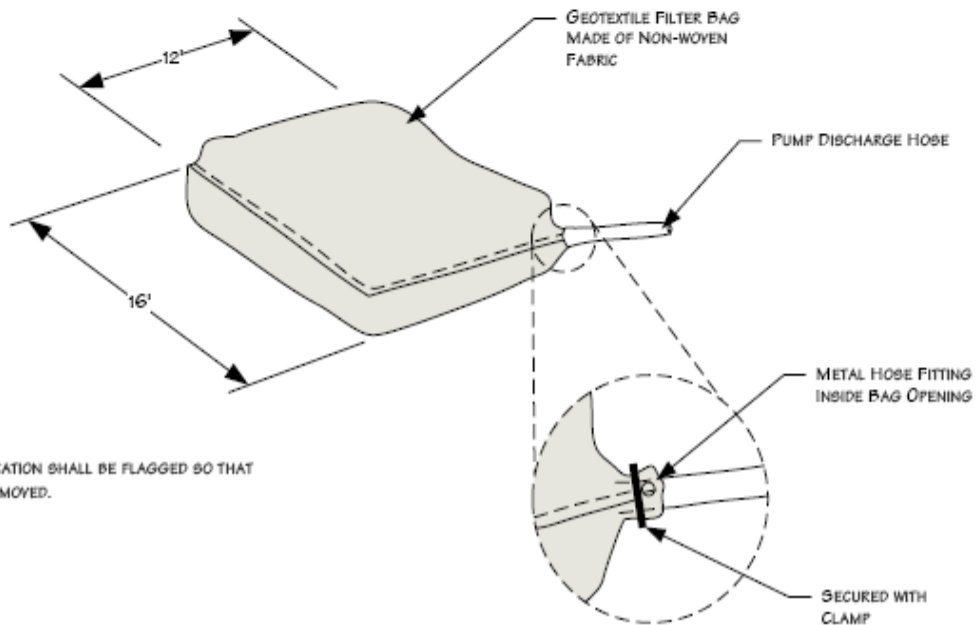
DEWATERING DISCHARGE IN WELL VEGETATED UPLANDS

NOTES:

1. PUMP INTAKE HOSE MUST BE SECURED AT LEAST ONE FOOT ABOVE THE TRENCH BOTTOM.
2. IF VEGETATION IS SPARSE, DEWATER INTO GEOTEXTILE FILTER BAG OR STRAW BALE DEWATERING STRUCTURE.



GEOTEXTILE FILTER BAG



NOTE:

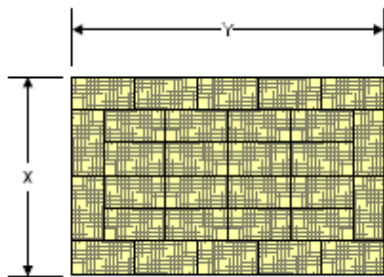
1. FILTER BAG LOCATION SHALL BE FLAGGED SO THAT BAG CAN BE REMOVED.



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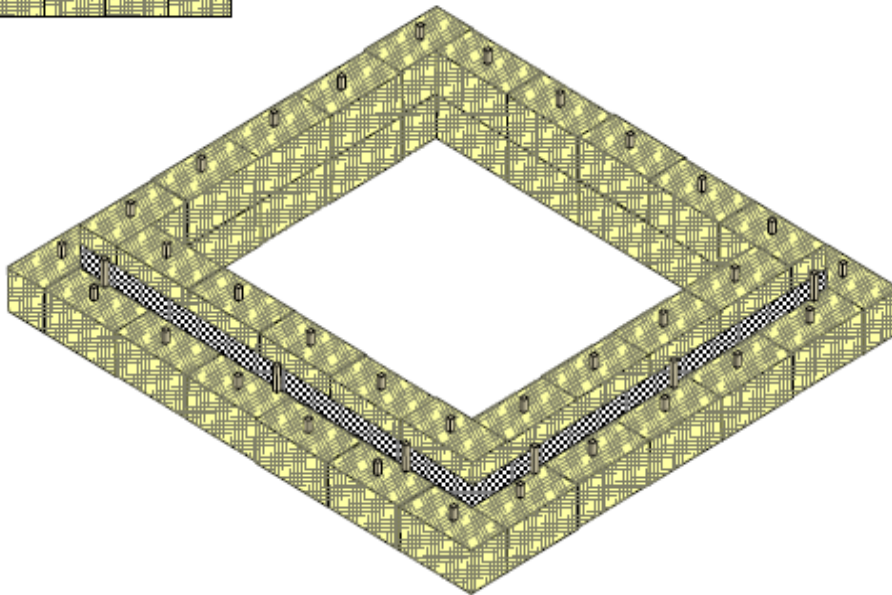
Figure 6.2.7– Typical Dewatering Measures

6-inch Natural Gas Liquids Pipeline
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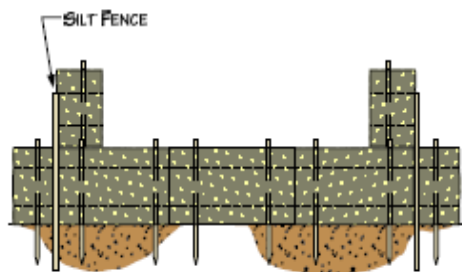


NOTES

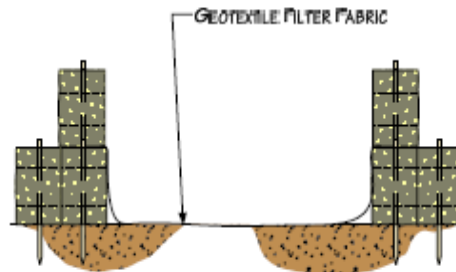
1. ARRANGE THE STRAW BALES TO THE X AND Y DIMENSIONS AS SPECIFIED BELOW.
2. IF BOTTOM OF STRUCTURE IS NOT LINED WITH STRAW BALES (OPTION 1), LINE ENTIRE STRUCTURE WITH GEOTEXTILE FILTER FABRIC.



PERSPECTIVE VIEW



OPTION 1



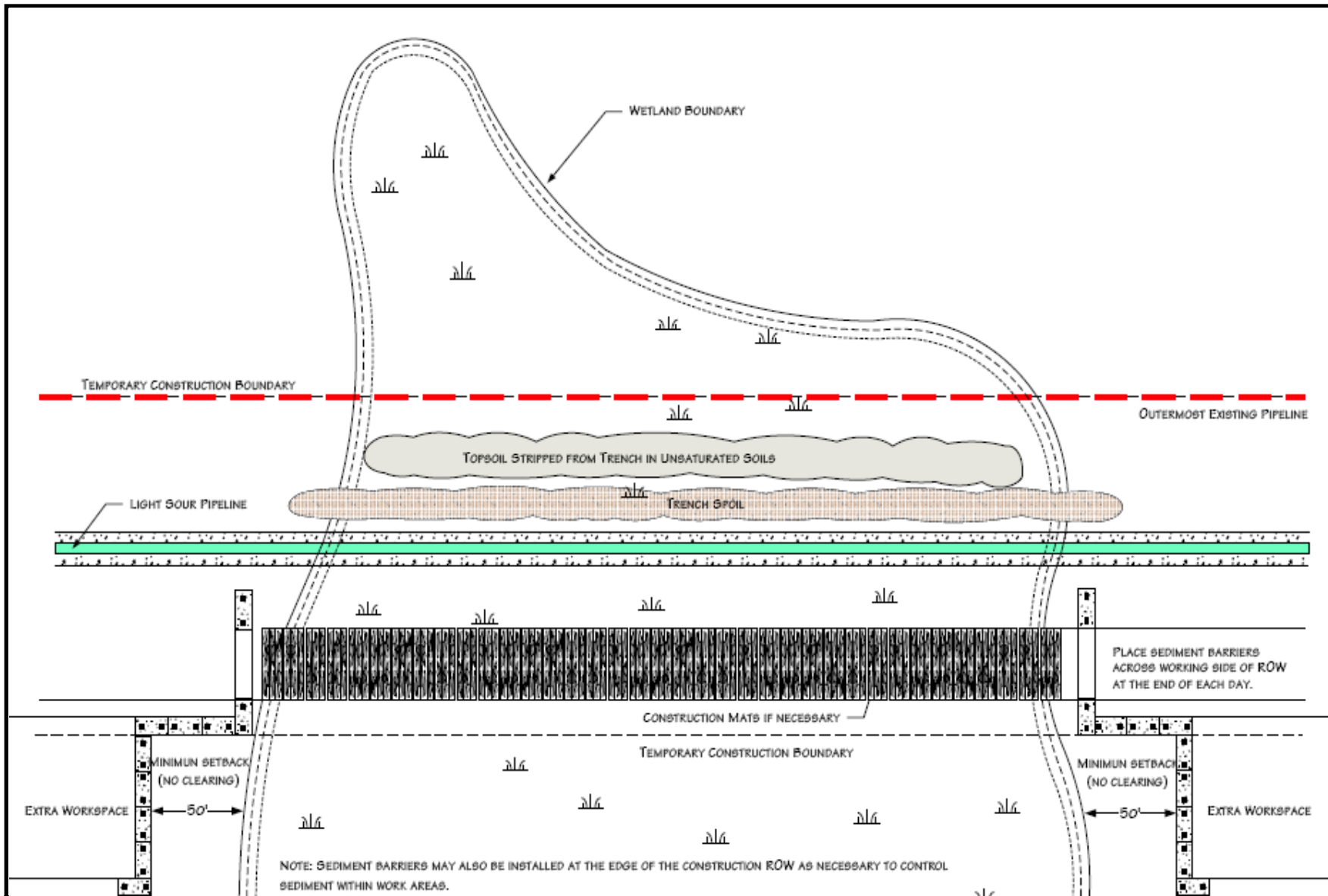
OPTION 2

MINIMUM SUMP DIMENSIONS (FEET)		MAXIMUM PUMPING RATE GALLONS PER MINUTE
X	Y	
10	20	300
15	20	350
20	20	400
20	25	450
25	25	500
25	30	550
30	30	660



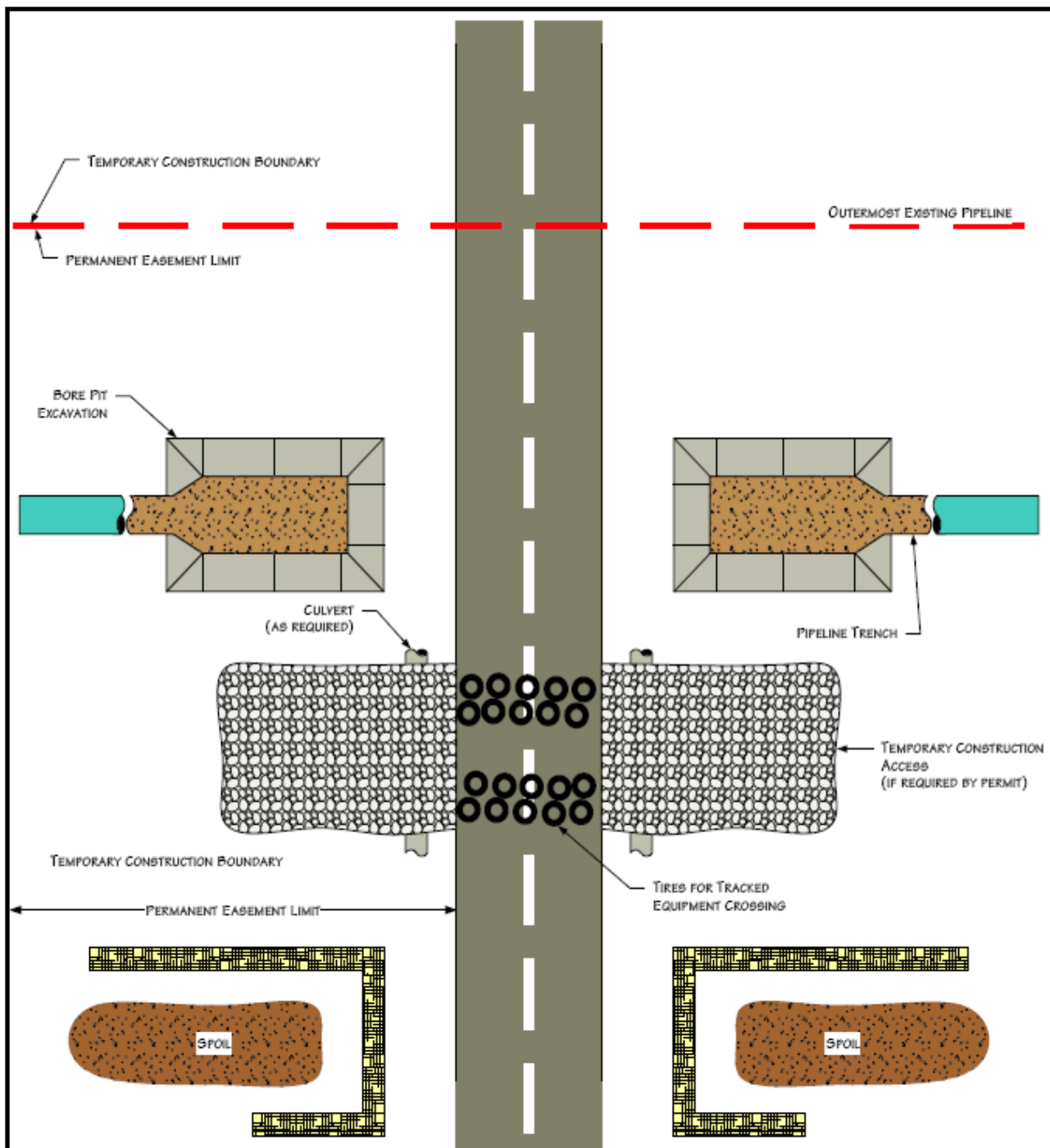
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Figure 6.2.8 – Typical Straw-Bale Dewatering Structure
 6-inch Natural Gas Liquids Pipeline
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Figure 6.3.1 – Typical Wetland Crossing Method
 6-inch Natural Gas Liquids Pipeline
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PLAN VIEW

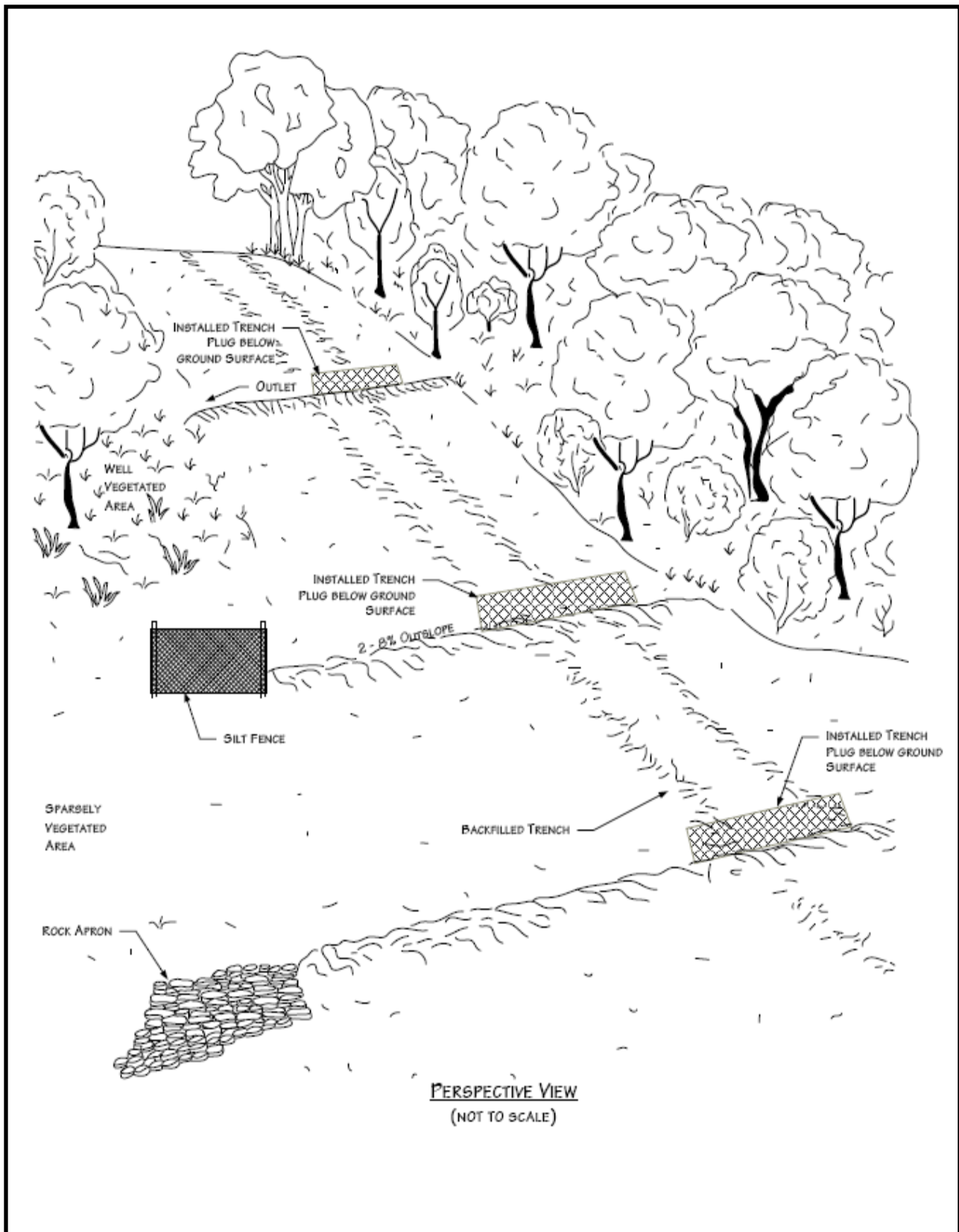
NOTES

1. PROCEDURES SHOWN IN THIS DRAWING APPLY TO IMPROVED ROADS.
2. ROADS MUST BE CLEANED AFTER EQUIPMENT CROSSES AND DIRT PLACED IN SPOIL CONTAINMENT AREAS.
3. TEMPORARY ACCESS MATERIALS MUST BE REMOVED UPON PROJECT COMPLETION.
4. ADDITIONAL INFORMATION INCLUDED ON OTHER DRAWINGS OR PERMITS.
5. CONSTRUCTION AREAS LOCATED OUTSIDE ROAD ROW.



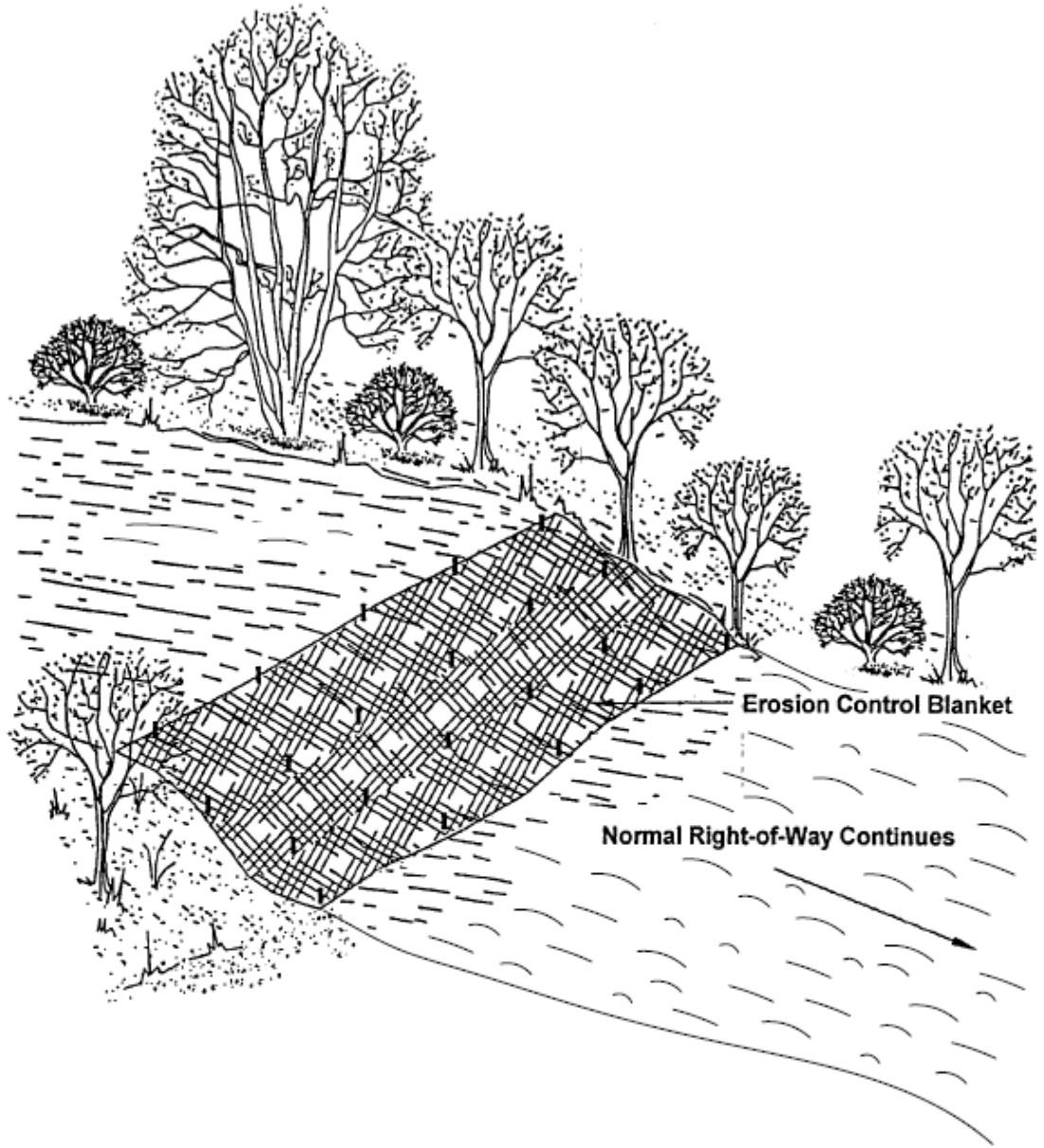
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Figure 6.4.1—Typical Improved Road Crossing-Directional Bore Method 6-inch Natural Gas Liquids Pipeline July 2011



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Figure 6.7.1 – Permanent Slope Breakers
 Perspective View
 6-inch Natural Gas Liquids Pipeline
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NOTES

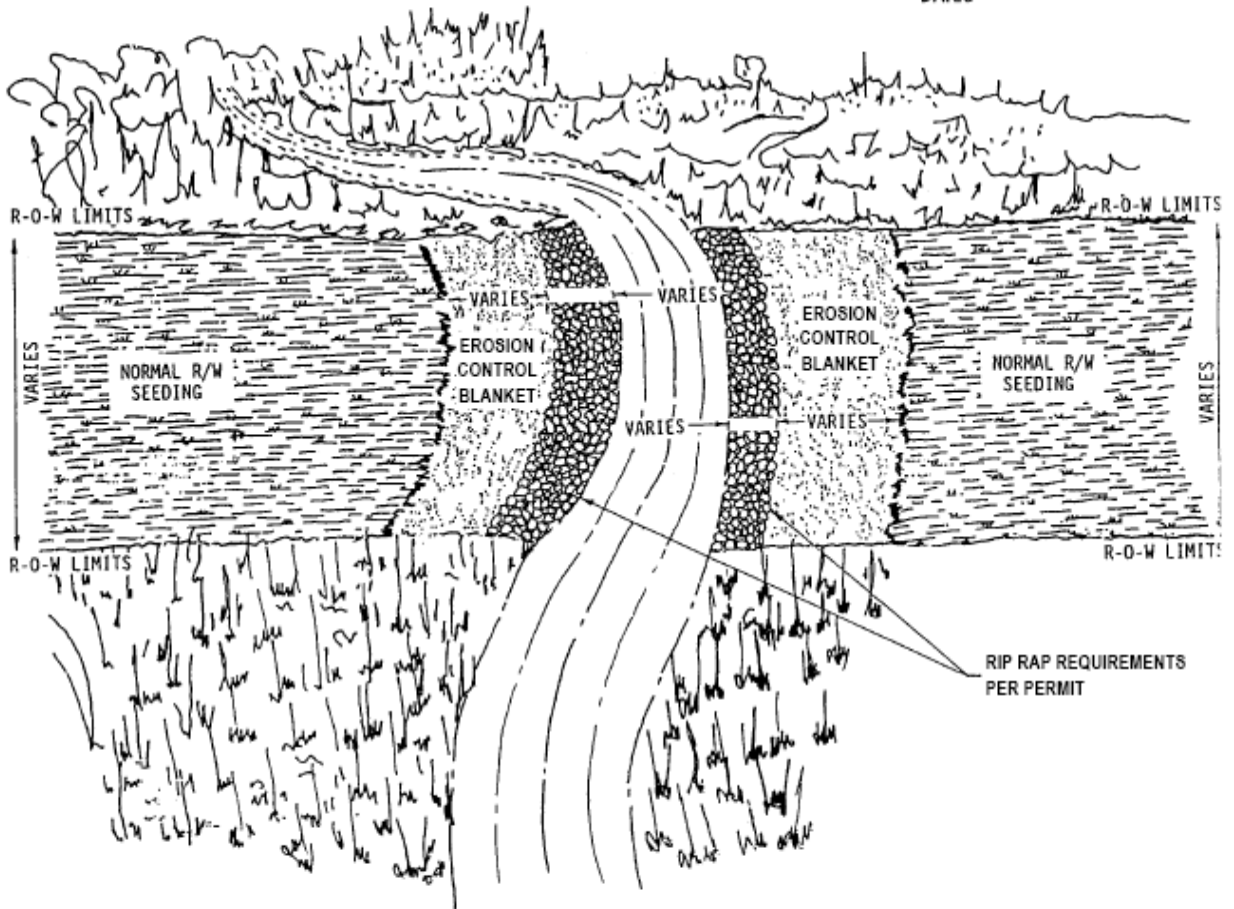
1. INSTALL EROSION CONTROL BLANKET AS PER MANUFACTURER'S SPECIFICATIONS.
2. ADDITIONAL INFORMATION INCLUDED ON OTHER DRAWINGS.



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Figure 6.7.2 – Erosion Control Blanket Steep Slopes (>30%)
6-inch Natural Gas Liquids Pipeline
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NOTE: PLACE JUTE BLANKET A MINIMUM OF ONE (1) FOOT UNDER RIP RAP. EXTEND JUTE BLANKET FROM MEAN HIGH WATER LEVEL TO SEVERAL FEET BEHIND HIGH BANK.



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Figure 6.7.3 – Typical Final Stream Bank Stabilization-Rip Rap & Erosion Control
 6-inch Natural Gas Liquids Pipeline
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