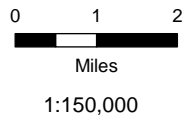
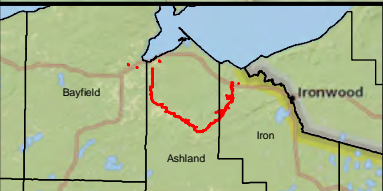


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- Milepost
- Proposed Centerline
- HDD/Direct Bore
- Proposed Workspace
- - - Existing Enbridge Pipeline



Map Index
 Modeled Erosion and Sediment Control
 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.



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EROSION AND SEDIMENT CONTROL PLAN NOTES

The Erosion and Sediment Control Plan (ESCP) implements measures identified in the Environmental Protection Plan (EPP) prepared by Enbridge Energy, Limited Partnership (Enbridge). The EPP outlines construction-related environmental policies, procedures, and protection measures Enbridge developed as a baseline for construction. Enbridge developed this EPP based on its experience implementing Best Management Practices (BMPs) during construction, as well as the Federal Energy Regulatory Commission's (FERC's) Upland Erosion Control, Revegetation, and Maintenance Plan (May 2013 Version) and Wetland and Waterbody Construction and Mitigation Procedures (May 2013 Version). The EPP is intended to meet or exceeds federal, state, and local environmental protection and erosion control requirements, specifications, and practices. The EPP addresses typical circumstances that may occur along the Project right-of-way (ROW).

Project-specific permit conditions and/or landowner agreements may supersede the general practices described in the EPP; however, alternative construction procedures implemented in lieu of this EPP will provide an equal or greater level of protection to the environment, and required advance approval from Enbridge. There may be discrepancies between the content of the EPP and the requirements of regulatory permits. For any discrepancy, particularly regarding construction conditions, protection measures, and required notifications, the regulatory permits are controlling and supersede landowner agreements, EPP, and ESCP content.

Environmental Protection Plan - Index

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GENERAL ESCP & EPP NOTES

THE FOLLOWING ESCP NOTES AND EXPERTS FROM THE EPP ARE FOR REFERENCE ONLY, REFER TO THE FULL EPP DOCUMENT FOR A COMPLETE OUTLINE OF CONSTRUCTION RELATED POLICIES, PROCEDURES, AND BMP MEASURES.

- BMP measures identified in the ESCP may adjusted and/or modified due to varying site conditions at the time of construction.
- All construction equipment and vehicles will be confined to the approved construction right-of-way (ROW) and additional temporary workspace (ATWS). Construction activities are restricted to the approved designated areas.
- Prior to commencement of clearing operations, Enbridge will mark the outer limits of the construction ROW and ATWS.
- The initial stage of construction involves the clearing of brush, trees, and tall herbaceous vegetation from the ROW. Clearing may be accomplished with chain saws, mowers, and hydraulic tree-cutting equipment.

EROSION AND SEDIMENT CONTROL (ESC)

- Silt Fence, Straw Bales, and Biologs – Refer to Figures 4, 5, and 6.
- Slope Breakers - Temporary and permanent slope breakers will be installed to minimize concentrated or sheet flow runoff in disturbed areas in accordance with the maximum allowable spacing included on Figure 9, unless otherwise specified in permit conditions.
- Trench breakers - installed at the base of slopes greater than 5 percent where the base of the slope is less than 50 feet from a waterbody or wetland, and where necessary to avoid draining a waterbody or wetland.

MAINTENANCE

- All non-functional ECDs will be repaired, replaced, or supplemented within 24 hours after discovery, or as soon as practicable following discovery.
- Sediment must be removed where accumulation reaches one-third of the height of the control measure.

WETLANDS

- Enbridge will post signs identifying the boundaries of sensitive resource areas, waterbodies, wetlands, or areas with special requirements along the construction work area.
- Vegetation and trees within wetlands will be cut off at ground level, leaving existing root systems intact; clearing debris will be removed from the wetland for disposal. Hydro-axe debris, or similar can be left in the wetland if spread evenly in the construction ROW to a depth which will allow for normal revegetation, as determined by the Environmental Inspector (EI).
- In wetlands that are not in actively cultivated or rotated cropland, the extent of tree stump removal will be limited to directly over the ditch line. Stumps and root systems from the rest of the construction ROW in wetlands will not be removed, unless Enbridge determines that safety-related considerations require them to do so.
- When constructing in wetland areas without standing water, up to 12 inches of topsoil (organic layer) will be stripped from the trench line and stockpiled separate from trench spoil to preserve the native seed stock.
- Equipment used for mixing, pouring, casting, or coating will not be washed within 100 feet of any wetland or waterbody.
- Backfilling - Wetlands will be restored as near as practicable to pre-construction conditions and reasonable attempts will be made to return the subsoil to its pre-construction density.
- Non-standing water wetlands will be seeded using the mix provided in EPP, Appendix B to provide temporary cover and allow natural revegetation via the seeds and rhizomes in the topsoil spread back over the ROW after pipe installation. No fertilizer, lime, or mulch will be applied in wetlands.
- Refer to Section 24.0 and Figure 18 for additional Wetland Crossing General Requirements.

SEEDING AND MULCHING

- When used, mulch will be applied at a rate of 2 tons per acre to cover at least 75 percent of the ground surface, unless otherwise stipulated by permit conditions; and distribution will occur by a mechanical mulch blower or by hand in areas not accessible to the mulch blower. Mulch will be anchored/crimped using a mulch-anchoring tool or disc set in the straight position to minimize loss by wind and water, as site conditions allow.
- The Contractor can use hydro-mulch and liquid tackifier in place of straw or weed-free hay mulch with prior approval from Enbridge.
- Deep tillage will be performed in actively cultivated areas and in non-agricultural areas (as directed by Enbridge) to relieve soil compaction and promote root penetration. Deep tillage will not occur in non-farmed wetlands. The soil will then be tilled with a disc, field cultivator, or chisel plow (or equivalent) to prepare a seedbed, breaking up large clods and firm the soil surface.
- Swales will be restored as near as practicable to original conditions. Swales will be seeded and either mulched with straw or erosion control blankets will be installed to the perceivable top of bank for the width of the construction ROW.
- Upon final grading of the construction ROW, and upon the restoration of wetland and waterways, seeding and restoration/stabilization will occur within 48 hours if weather and soils conditions allow. Other methods of stabilization will be used if temporary seeding is not appropriate due to seasonal conditions (e.g., mulch, erosion control blanket).
- Refer to EPP, Section 21.0 for seed specification and guidelines. Project-specific permit conditions and landowner requests (with exception to wetlands) for specific seed mixes (as indicated in the Project Construction Line List) take precedence over this section.

MATERIAL WASTE HANDLING

- Enbridge requires that the storage of petroleum products, refueling, maintenance, and lubricating operations take place in upland areas that are more than 100 feet from wetlands, streams, and waterbodies (including drainage ditches), and water supply wells. In addition, the Contractor will store hazardous materials, chemicals, fuel and lubricating oils, and perform concrete coating activities outside these areas.


POLLUTANT CONTROLS

- Spills occurring during construction, operation and maintenance are to be reported immediately to the Enbridge Representative and the EI, regardless of volume.

GENERAL SEQUENCE OF CONSTRUCTION

- Limits of construction must be field marked prior to clearing, installation of sediment control measures, construction, or other land disturbing activities.
 1. Install stabilized construction entrances.
 2. Clear vegetation in the ROW, as required.
 3. Install sediment control devices.
 4. Prepare temporary parking and storage area(s).
 5. Start construction of the ROW.
 6. Begin grading the ROW.
 7. Install pipeline.
 8. Establish final grades and contours. Conduct seeding and stabilization include installation of erosion and sediment controls.
 9. Remove all temporary erosion and sediment control devices (upon successful vegetation establishment).



GENERAL NOTES AND COMMENTS:

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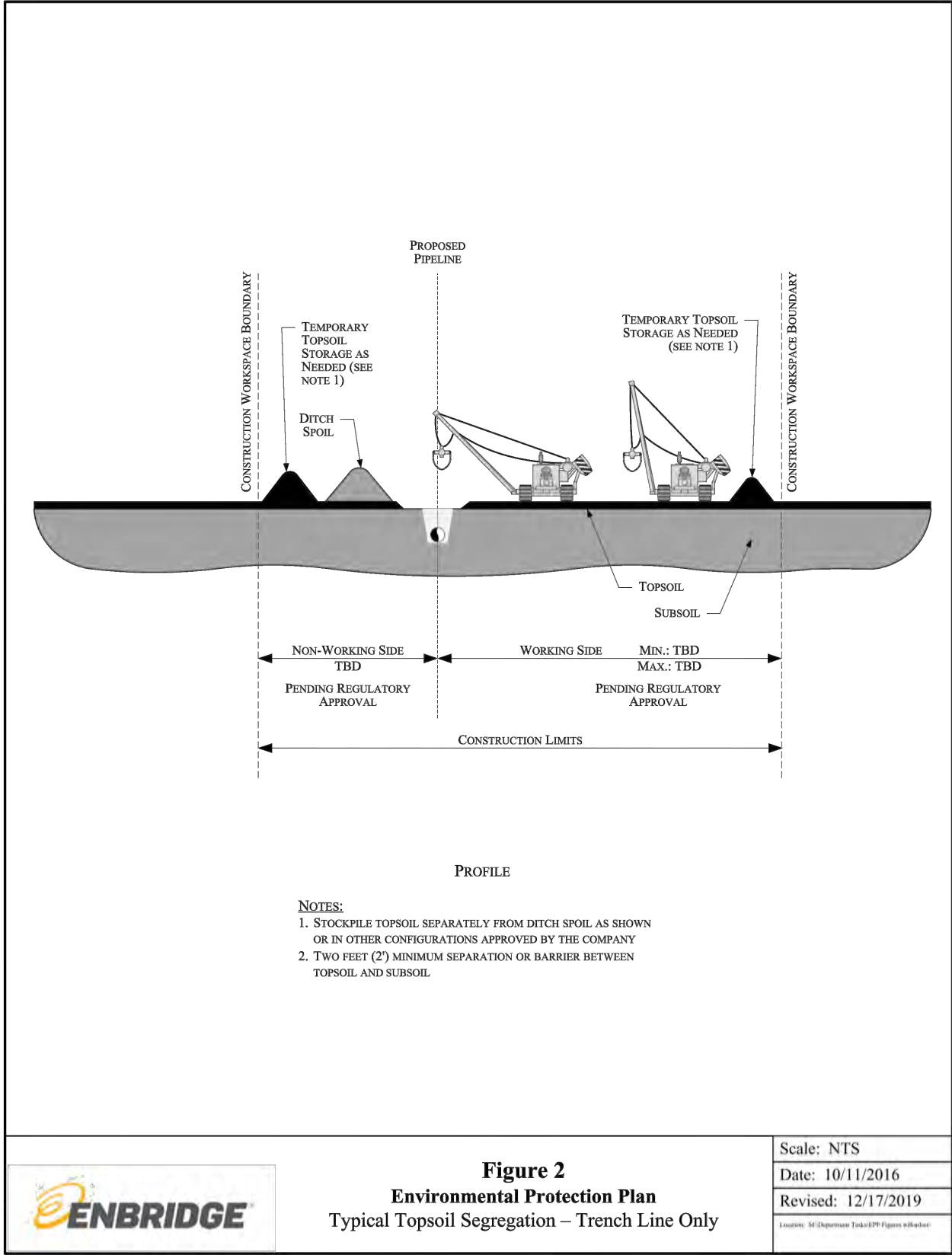
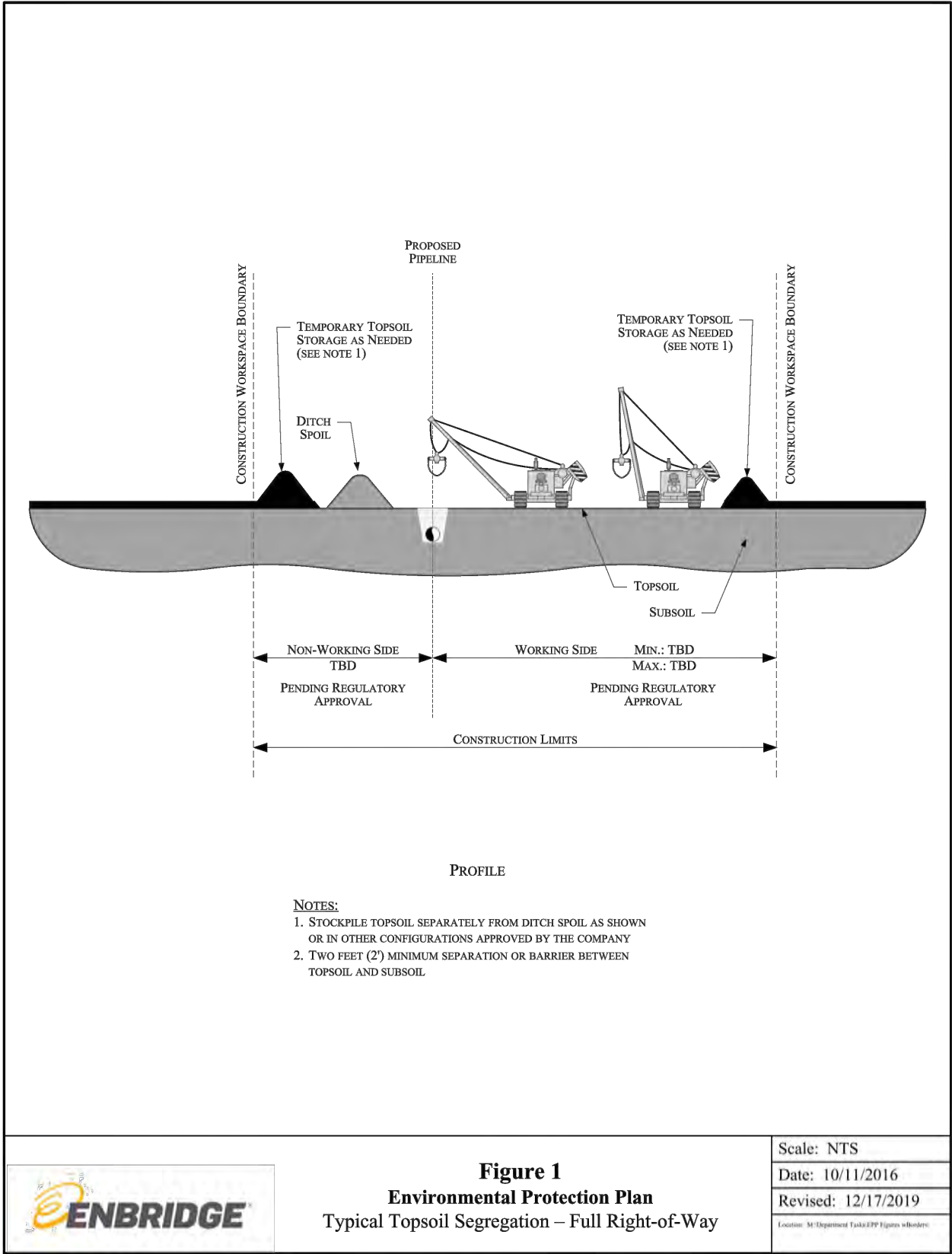
SHEET 3A

Erosion & Sediment Control Notes
Line 5 Wisconsin Segment Relocation Project
Enbridge Energy, L.P.



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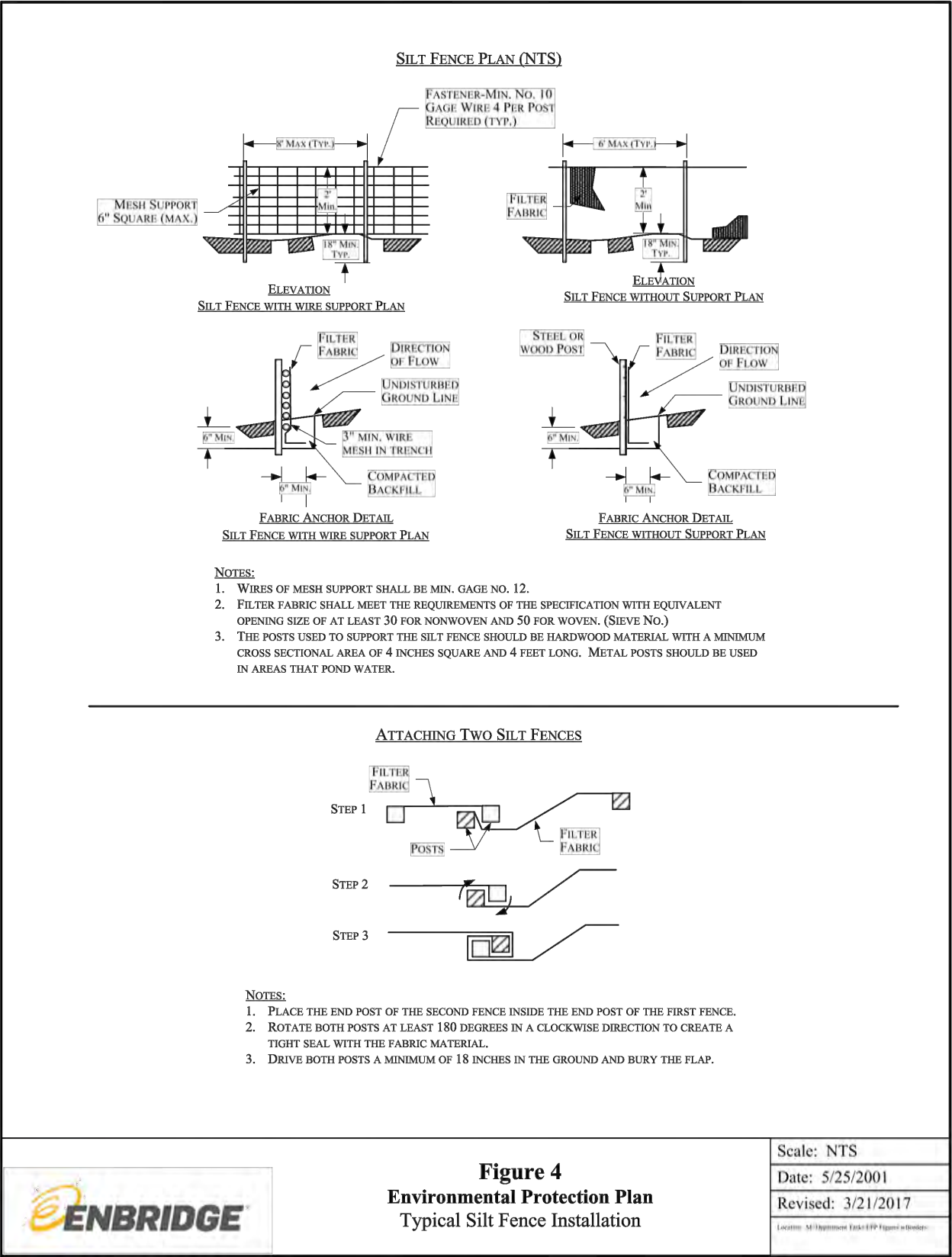
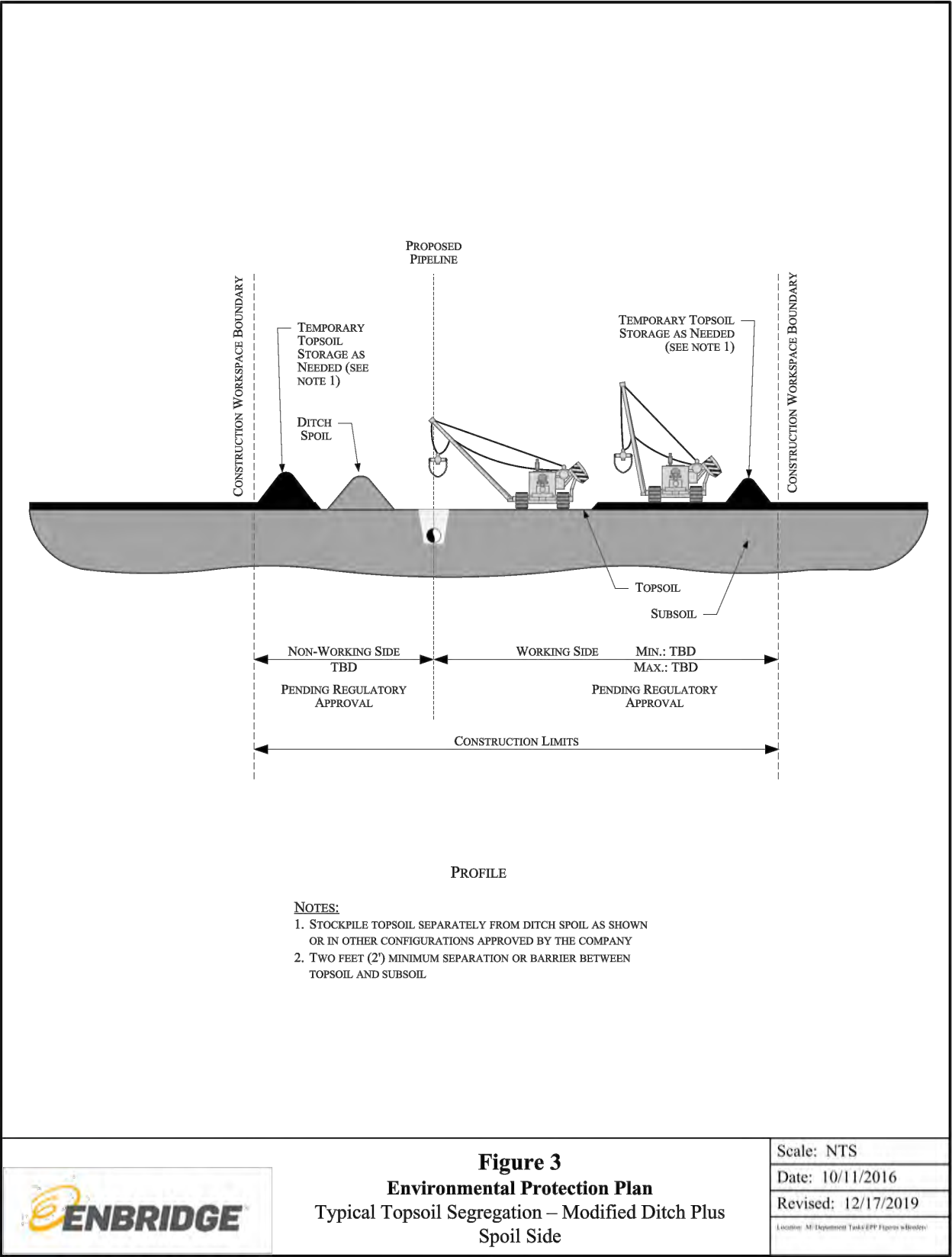


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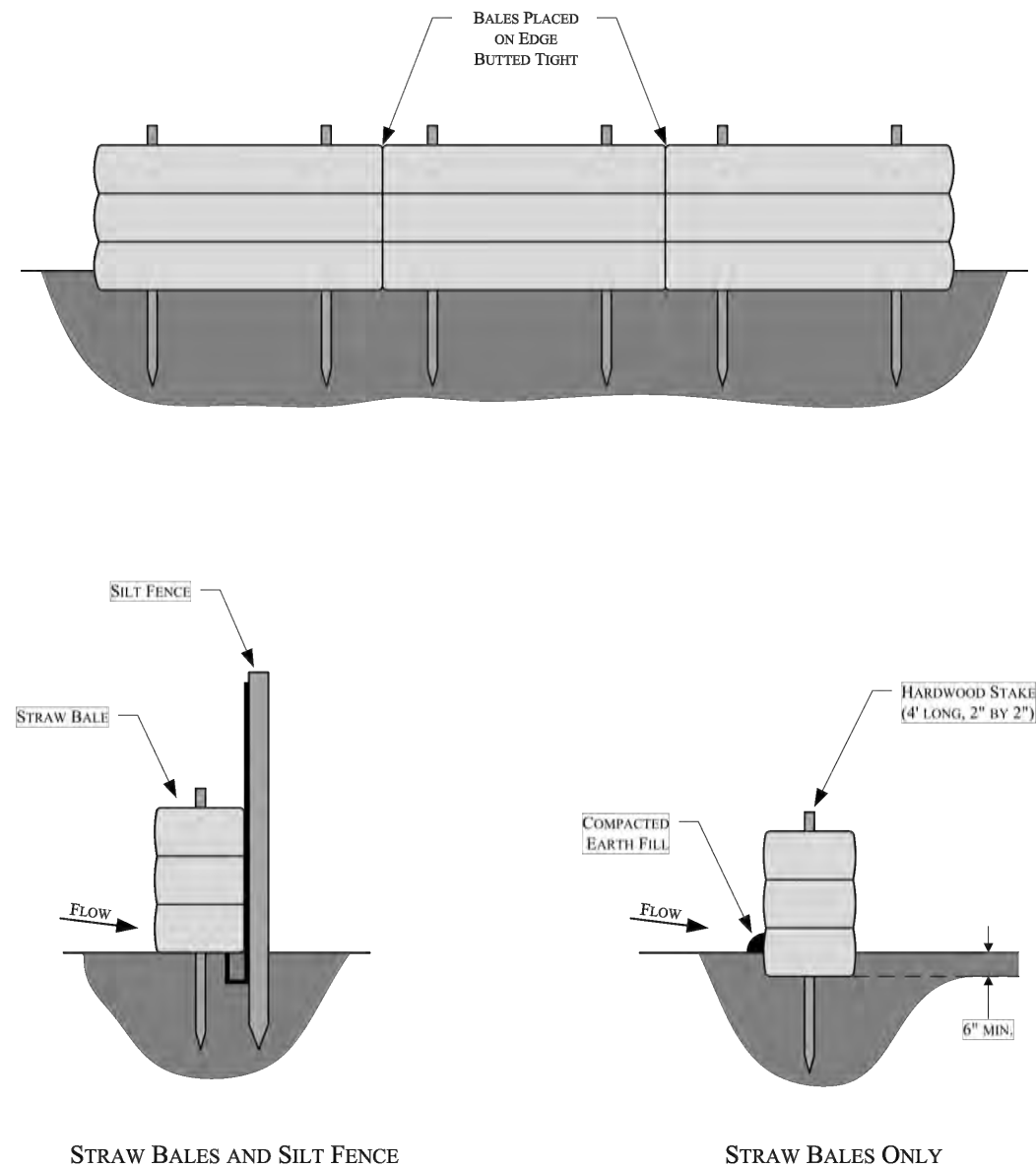


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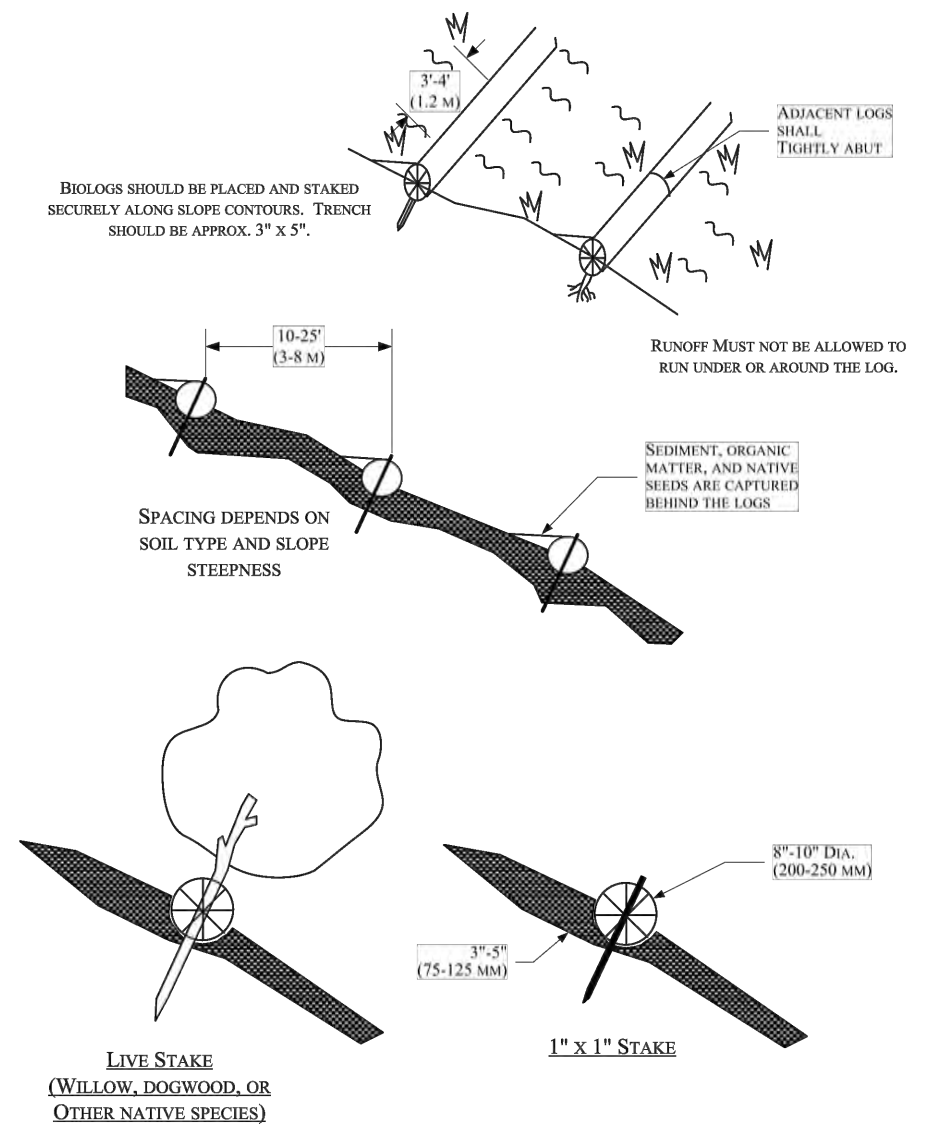


STRAW BALES AND SILT FENCE

STRAW BALES ONLY

Figure 5
Environmental Protection Plan
Typical Straw Bale Installation

Scale: NTS
Date: 10/28/2016
Revised: 3/21/2017
Location: M-14 Improvement Task 5 EPP Figure 5 (Revised)



LIVE STAKE
(WILLOW, DOGWOOD, OR
OTHER NATIVE SPECIES)

1" X 1" STAKE

Figure 6
Environmental Protection Plan
Typical Biolog Installation

Scale: NTS
Date: 11/3/2016
Revised: 3/21/2017
Location: M-14 Improvement Task 5 EPP Figure 6 (Revised)

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Line 5 Wisconsin Segment Relocation Project
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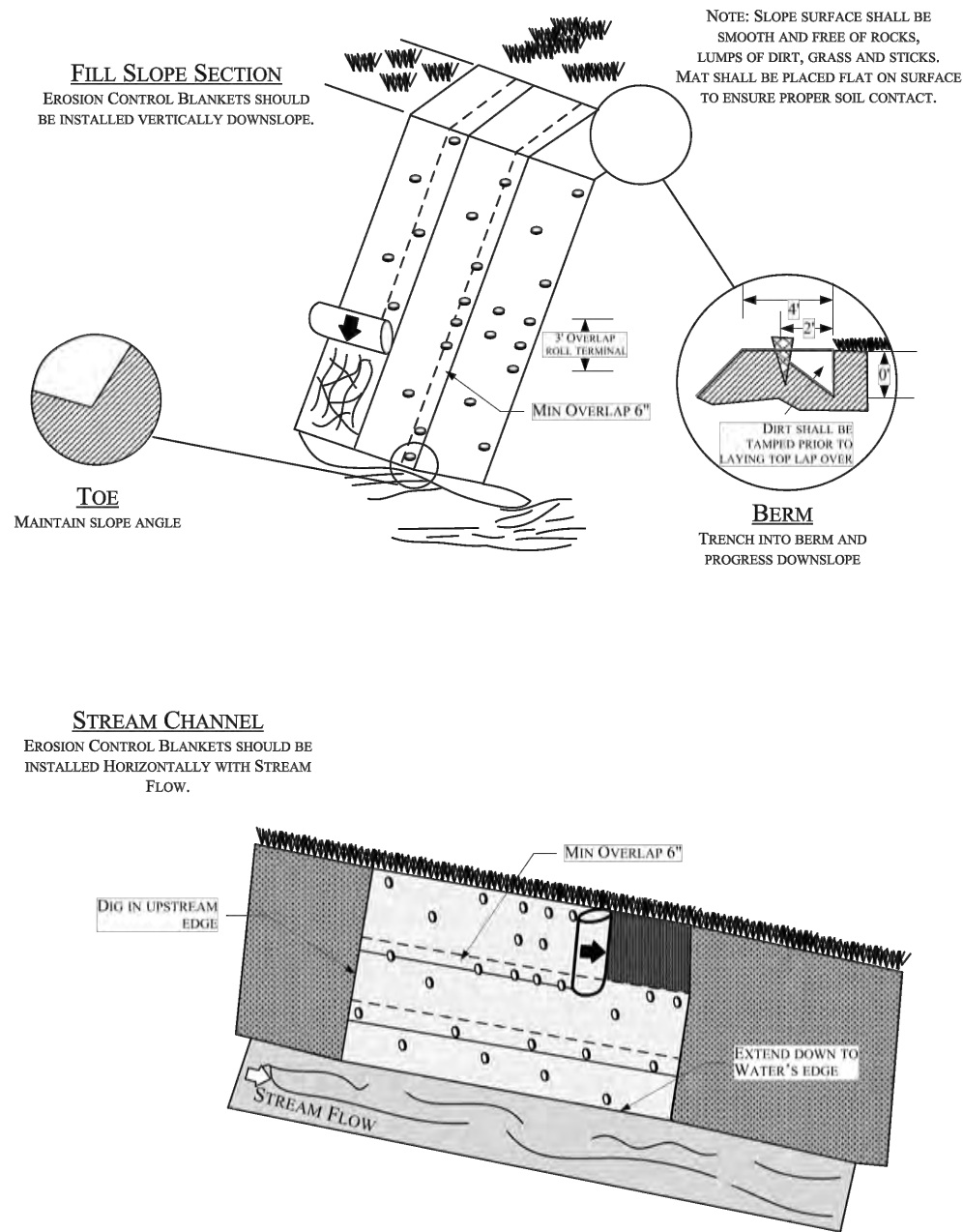


Figure 7
Environmental Protection Plan
Typical Erosion Control Blanket Installation

Scale: NTS
Date: 11/3/2016
Revised: 3/21/2017
Location: M-30/Department Task/EPP Figures & Details

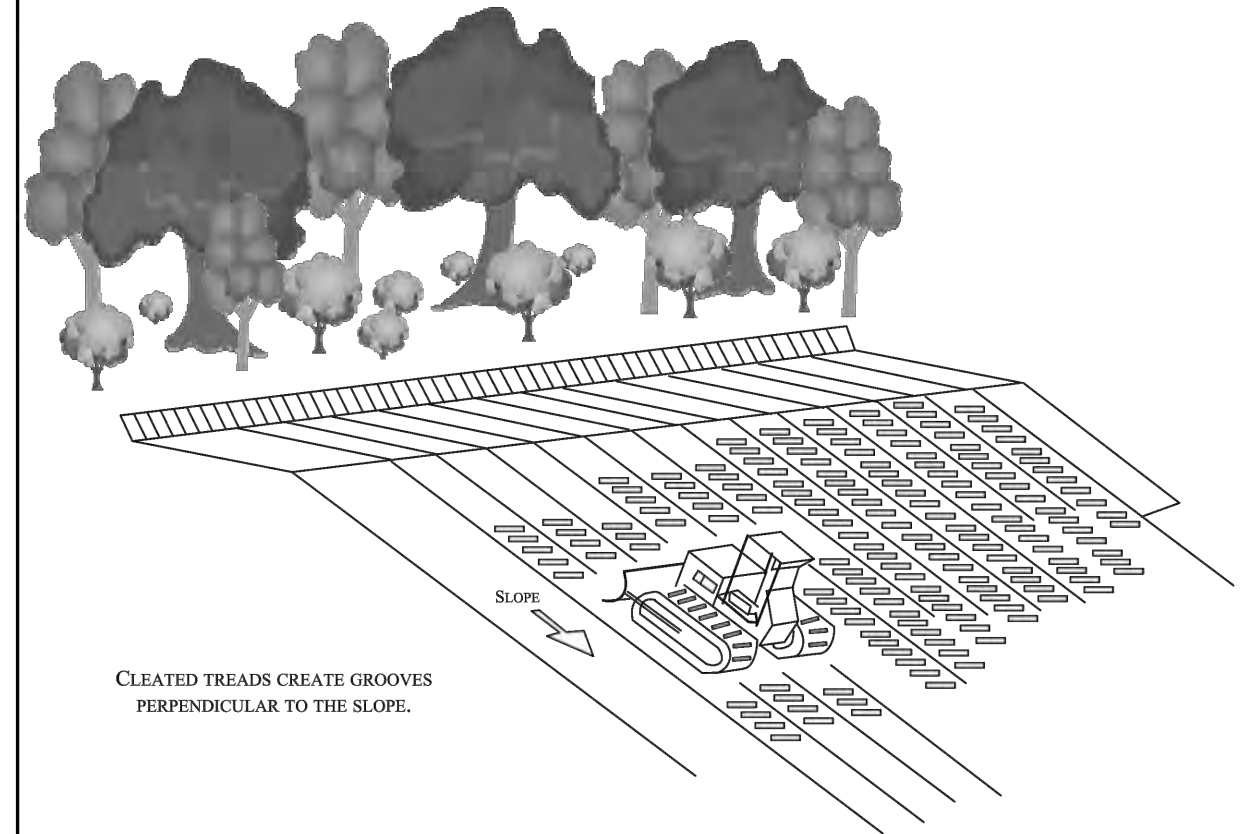


Figure 8
Environmental Protection Plan
Typical Cat Tracking

Scale: NTS
Date: 11/3/2016
Revised: 3/21/2017
Location: M-30/Department Task/EPP Figures & Details

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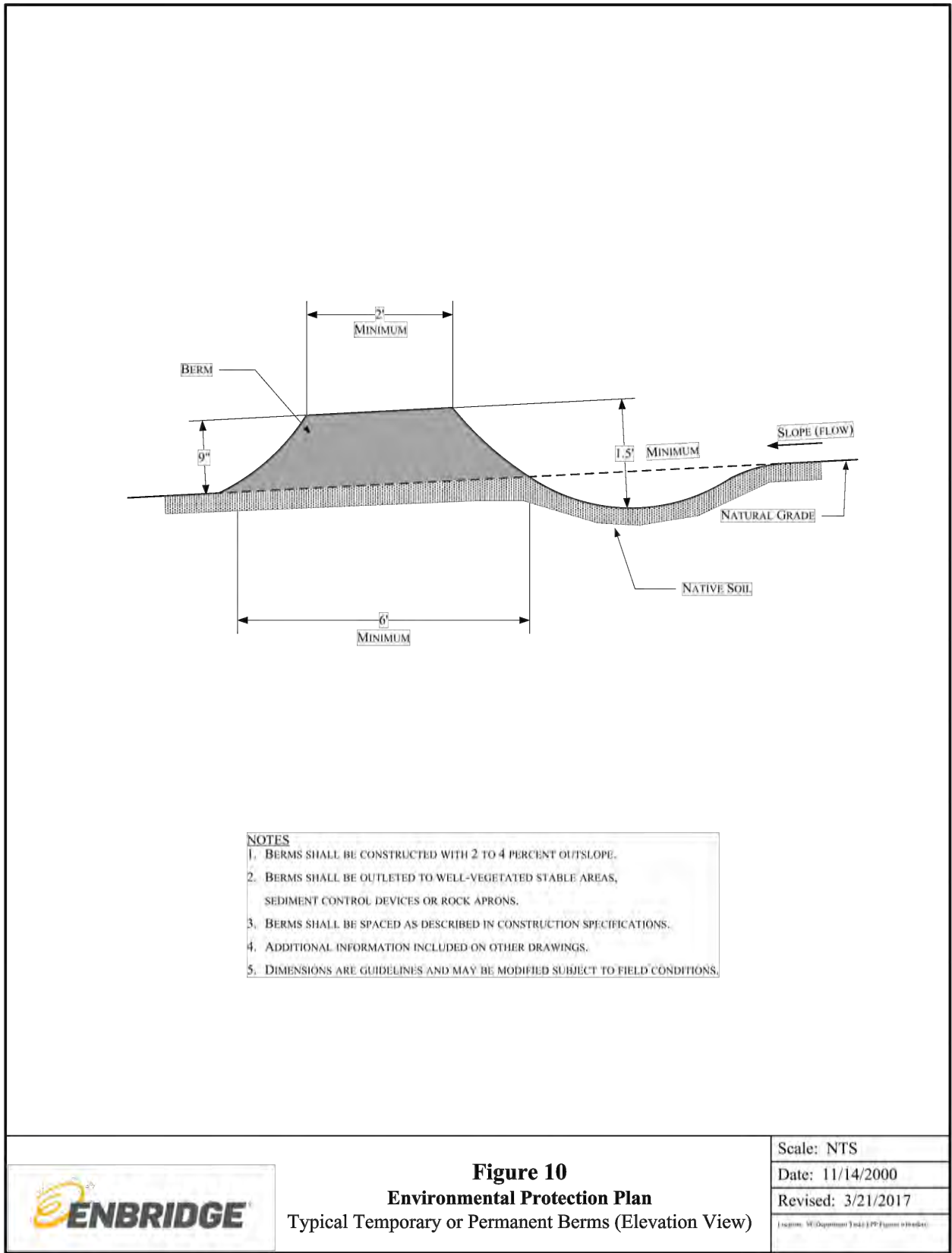
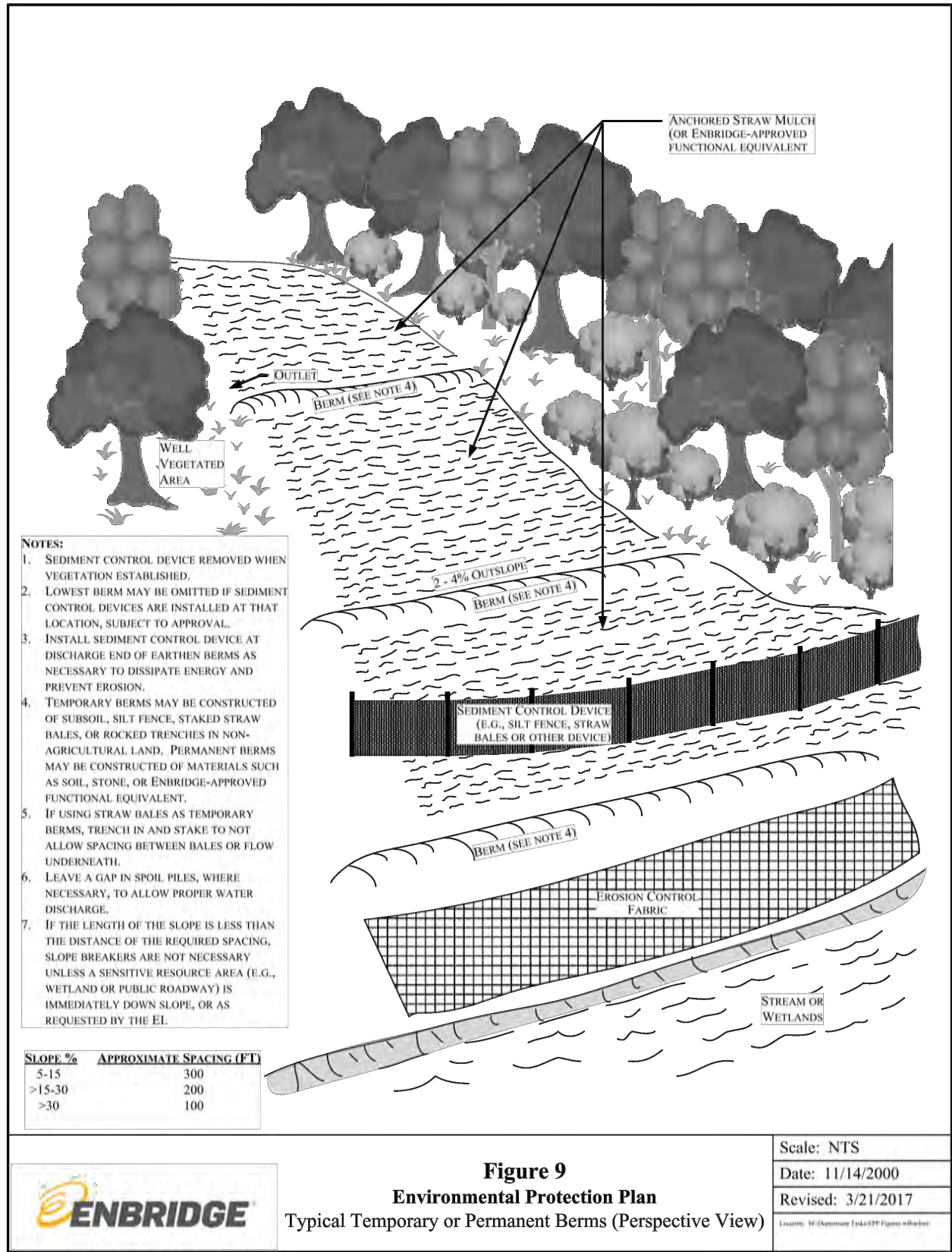
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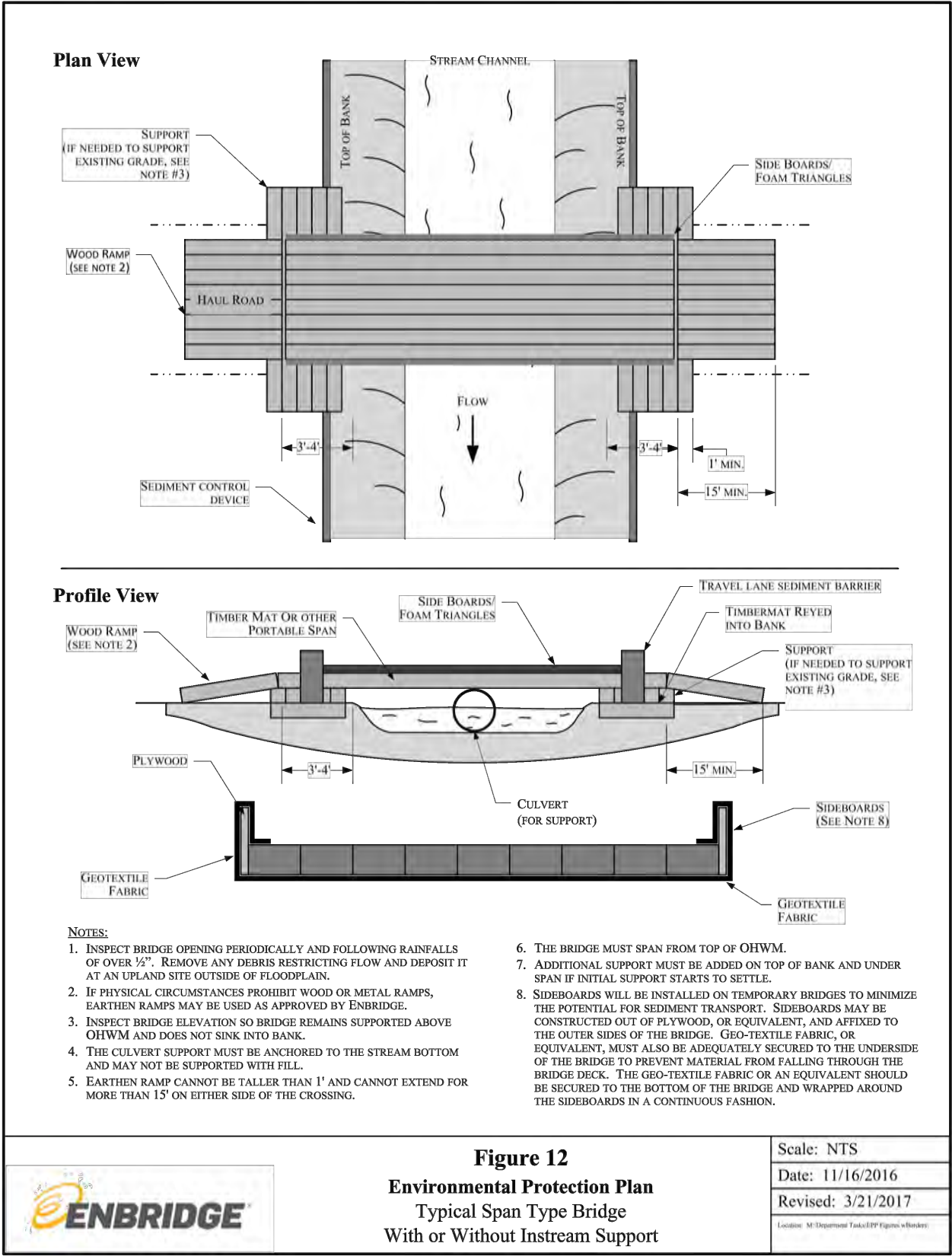
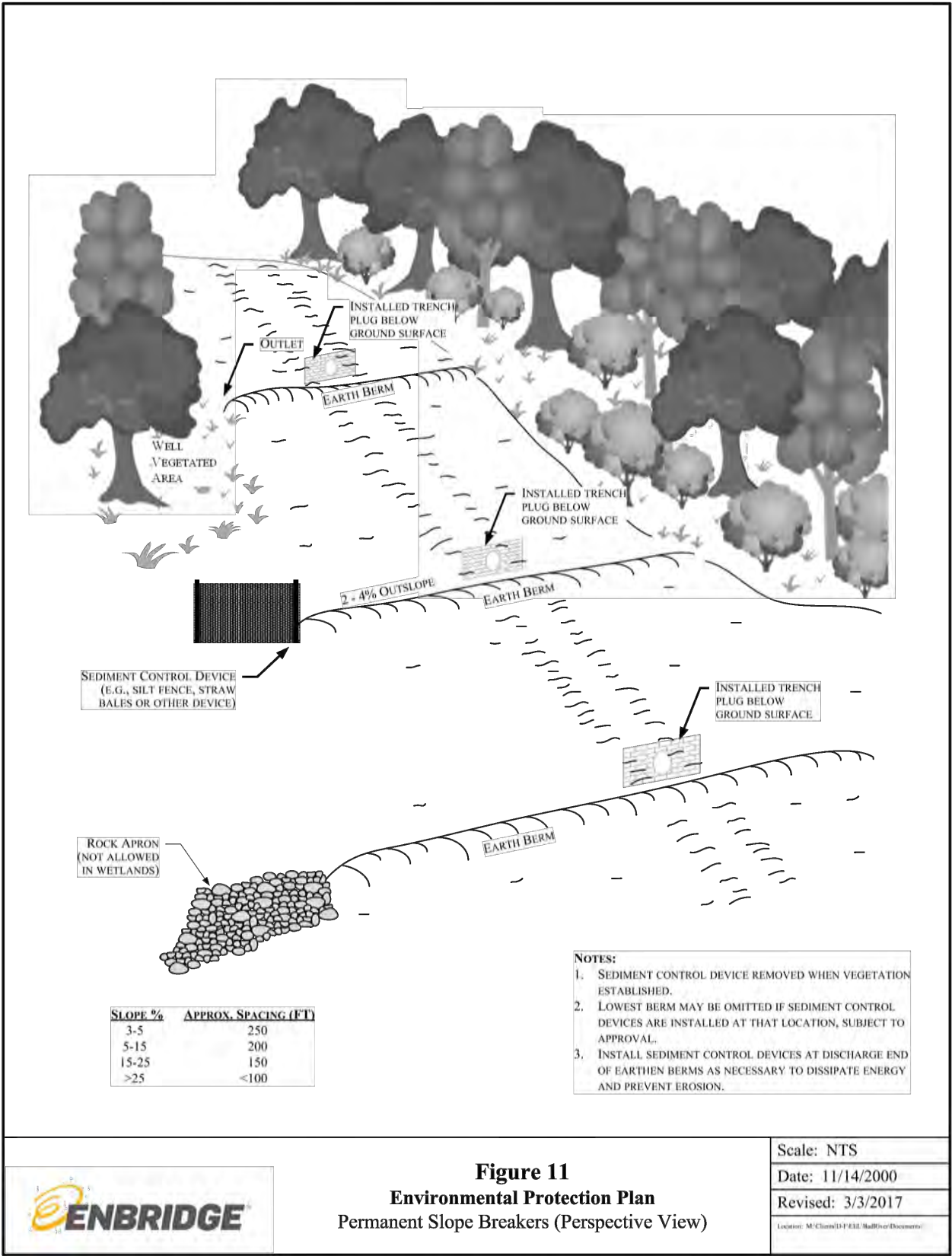


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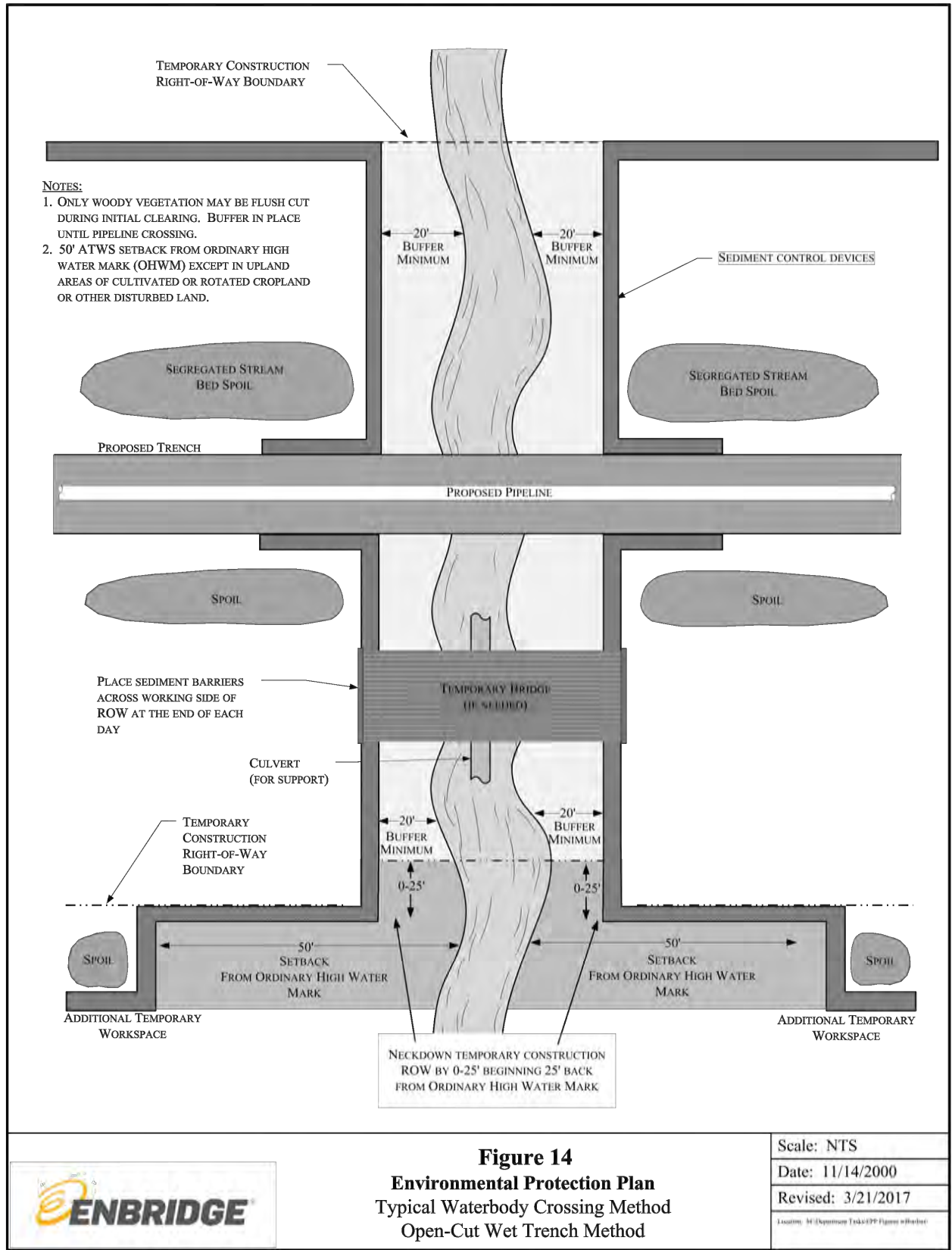
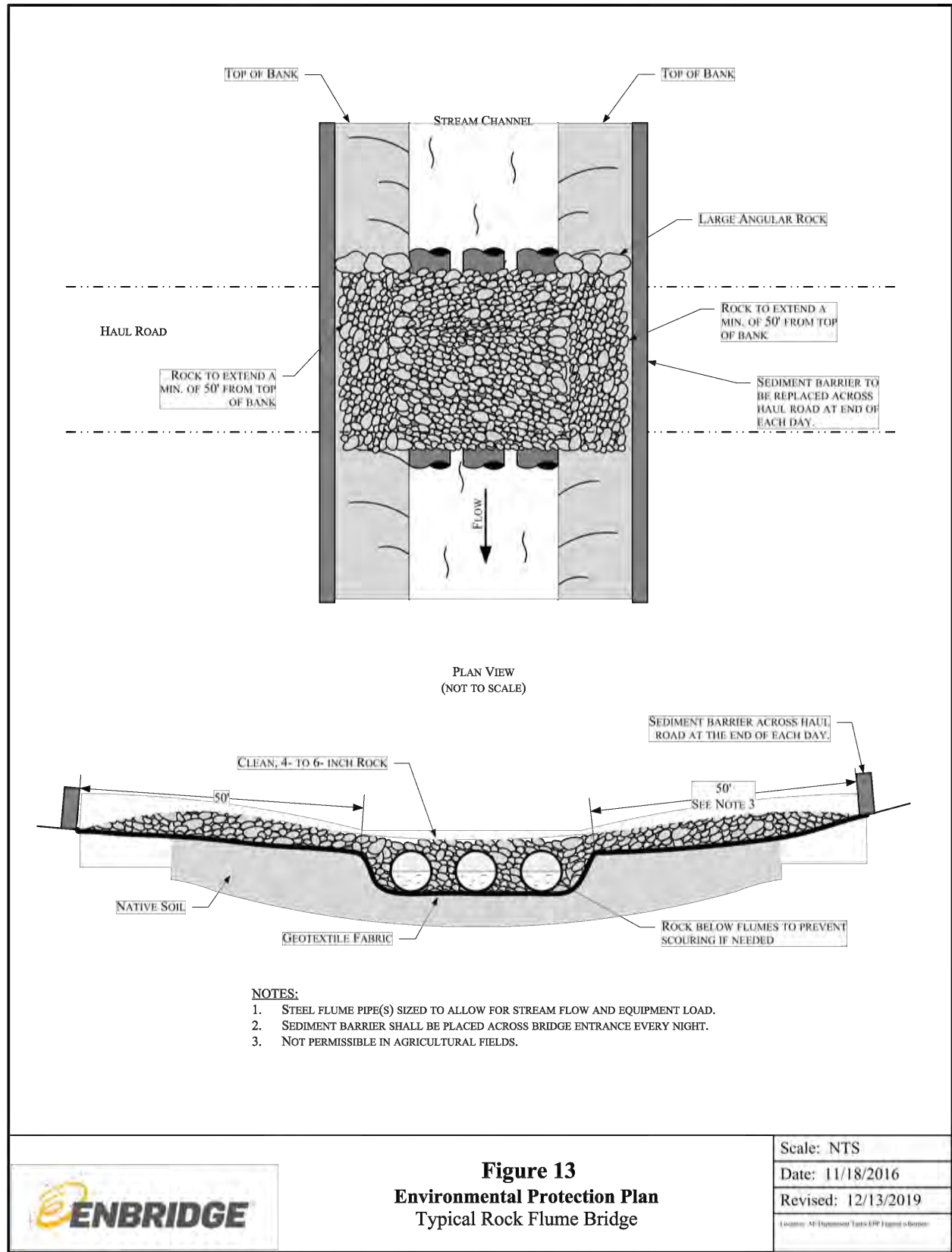


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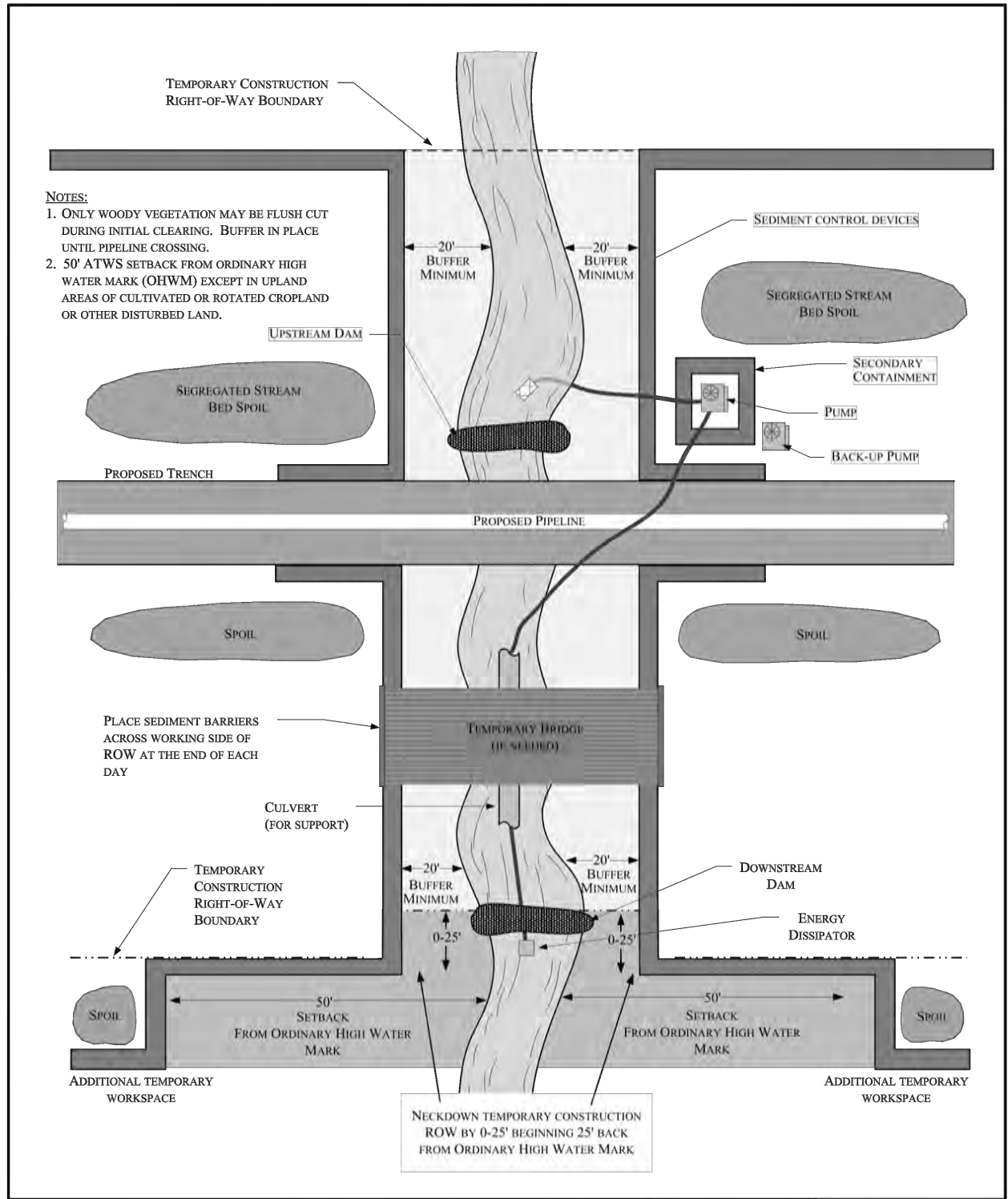


Figure 15
Environmental Protection Plan
Typical Waterbody Crossing Method
Dam and Pump Method

Scale: NTS
Date: 11/14/2000
Revised: 3/21/2017
Location: H:\Supporting Tasks\ESP Figures\080601.dwg

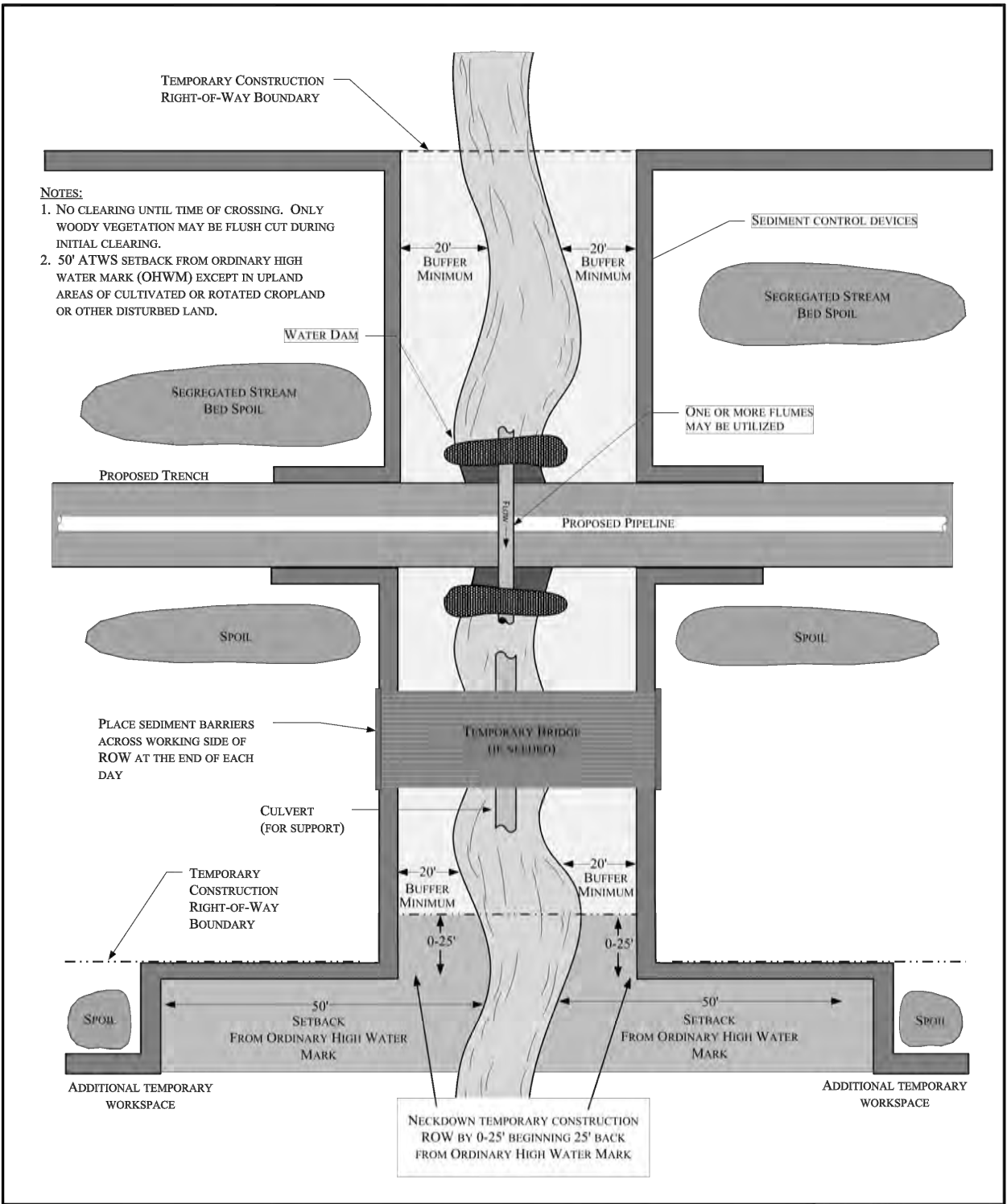


Figure 16
Environmental Protection Plan
Typical Waterbody Crossing Method
Flume Method

Scale: NTS
Date: 11/14/2000
Revised: 3/21/2017
Location: H:\Supporting Tasks\ESP Figures\080601.dwg

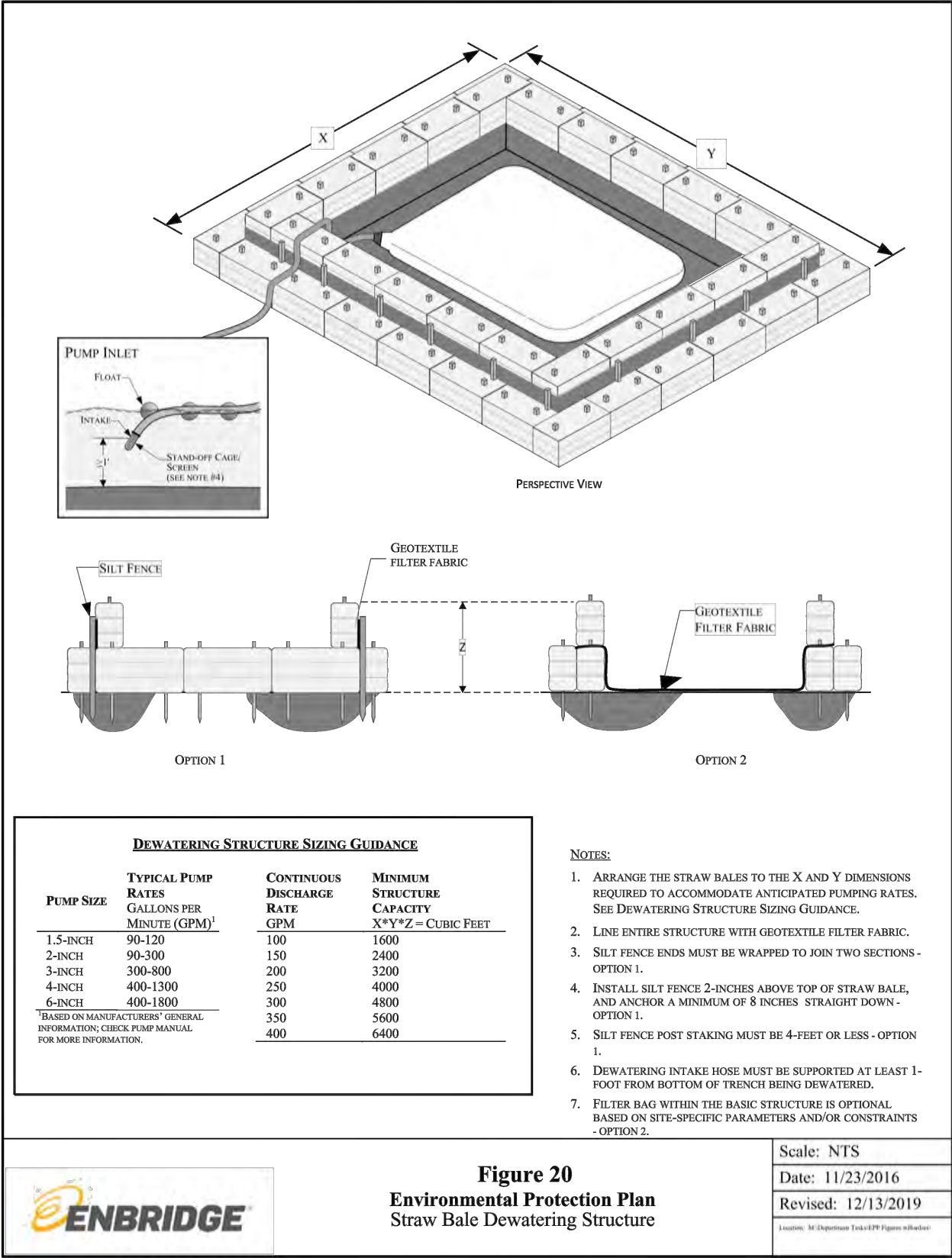
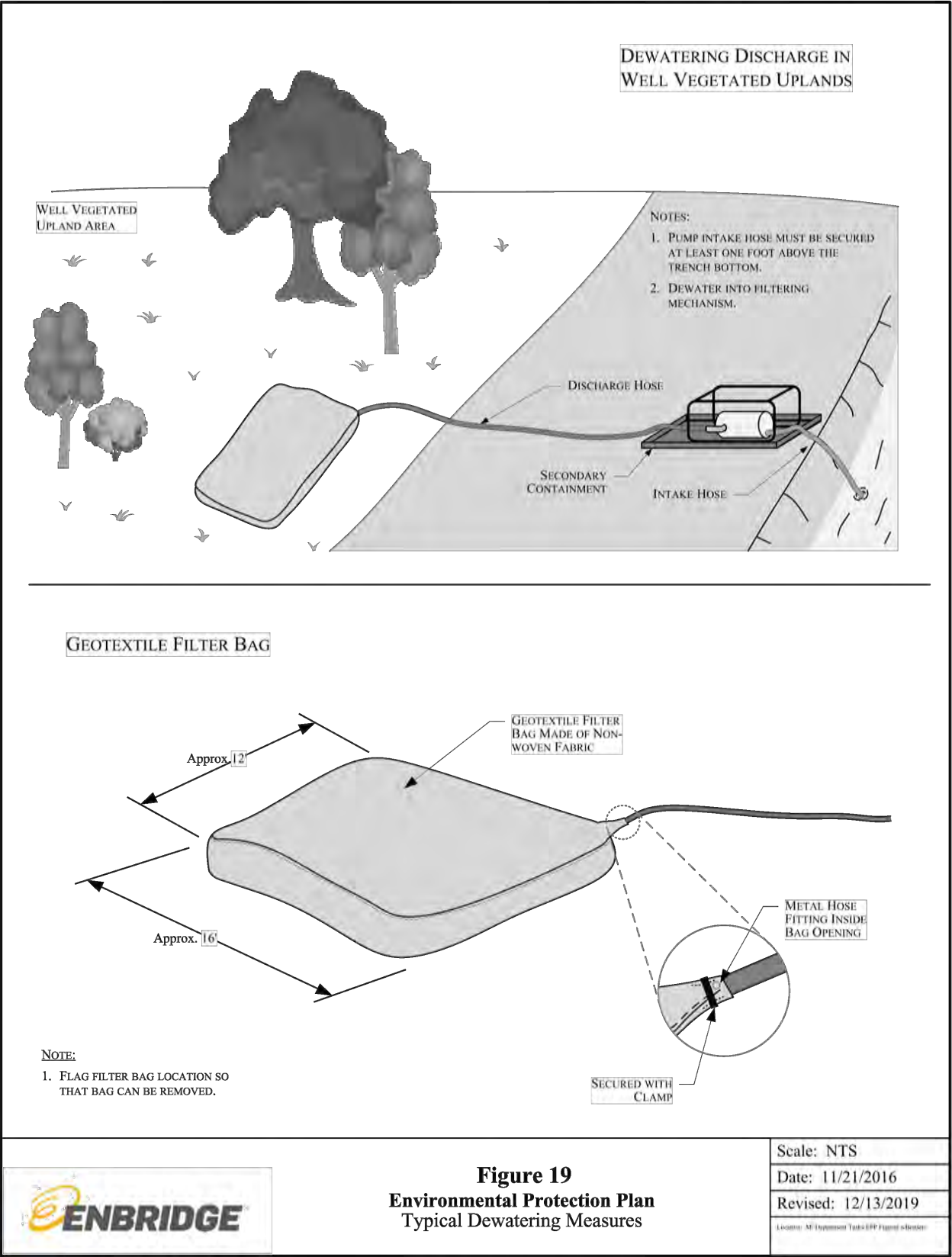
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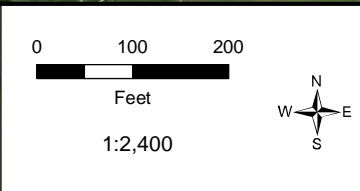
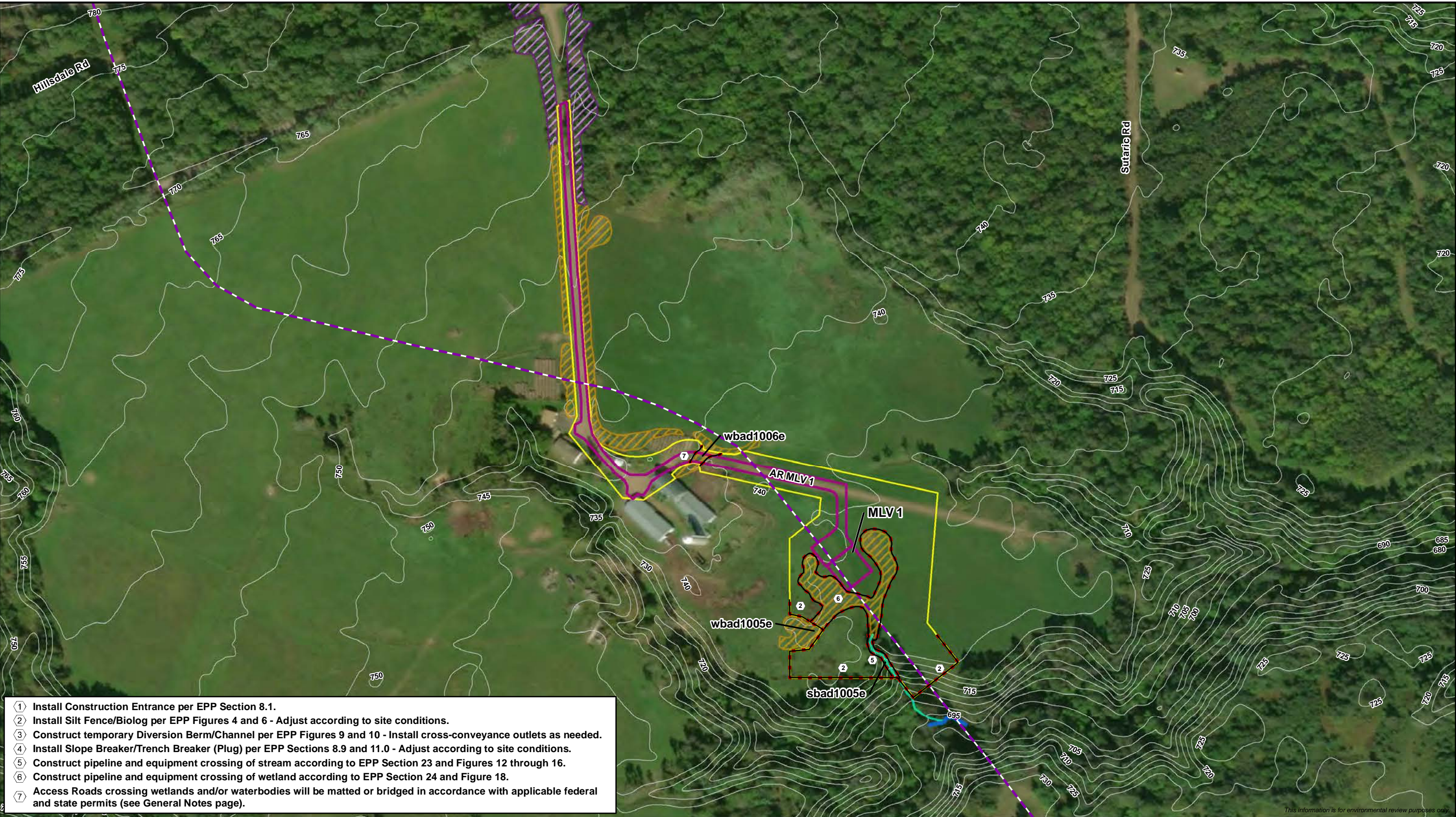
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Construction Entrance	Proposed Centerline
Trench Breaker/Plug	HDD/Direct Bore
Sediment Barrier	Proposed Workspace
>20% Ground Slope	Permanent Valve/Road
5ft Contour	Existing Enbridge Pipeline
Milepost	

PFO Wetland	Perennial Waterbody
PSS Wetland	Intermittent Waterbody
PEM Wetland	Ephemeral Waterbody
Pond	

Modeled best management practices (BMPs) are presented to illustrate how Environmental Protection Plan (EPP) measures may be implemented based on field conditions during construction. Refer to General Notes and Typical Details provided in this plan for BMP installation and sequencing.

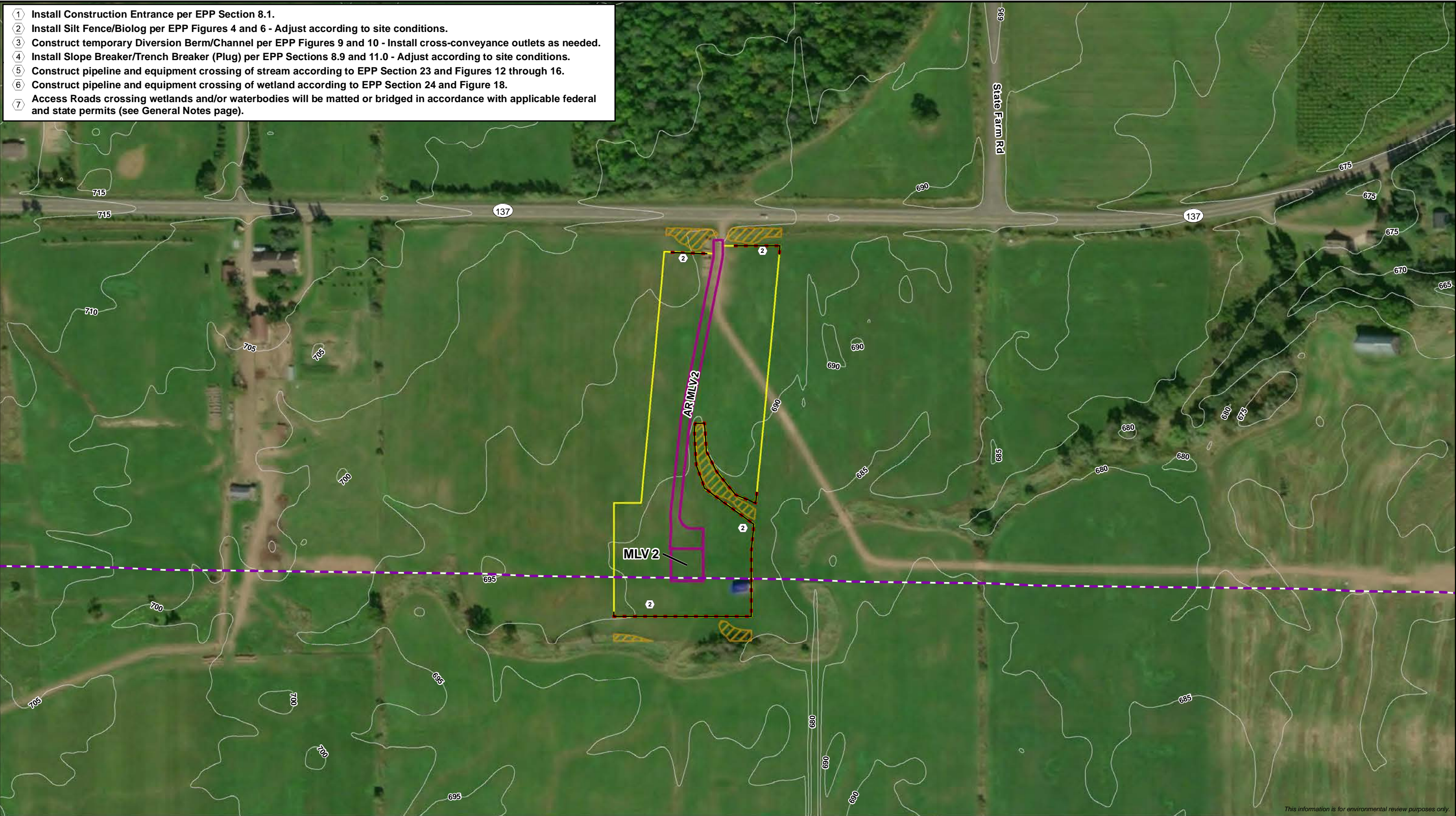
Erosion and Sediment Control Plan

Line 5 Wisconsin Segment Relocation Project

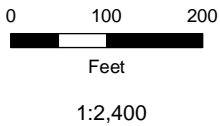
Enbridge Energy, L.P.

Sheet 1 of 115

- 1 Install Construction Entrance per EPP Section 8.1.
- 2 Install Silt Fence/Biolog per EPP Figures 4 and 6 - Adjust according to site conditions.
- 3 Construct temporary Diversion Berm/Channel per EPP Figures 9 and 10 - Install cross-conveyance outlets as needed.
- 4 Install Slope Breaker/Trench Breaker (Plug) per EPP Sections 8.9 and 11.0 - Adjust according to site conditions.
- 5 Construct pipeline and equipment crossing of stream according to EPP Section 23 and Figures 12 through 16.
- 6 Construct pipeline and equipment crossing of wetland according to EPP Section 24 and Figure 18.
- 7 Access Roads crossing wetlands and/or waterbodies will be matted or bridged in accordance with applicable federal and state permits (see General Notes page).



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- | | |
|-----------------------|----------------------------|
| Construction Entrance | Proposed Centerline |
| Trench Breaker/Plug | HDD/Direct Bore |
| Sediment Barrier | Proposed Workspace |
| >20% Ground Slope | Permanent Valve/Road |
| 5ft Contour | Existing Enbridge Pipeline |
| Milepost | |

- | | |
|-------------|------------------------|
| PFO Wetland | Perennial Waterbody |
| PSS Wetland | Intermittent Waterbody |
| PEM Wetland | Ephemeral Waterbody |
| Pond | |

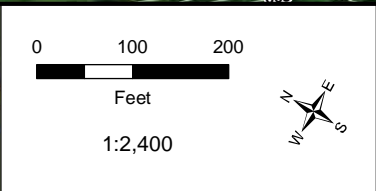
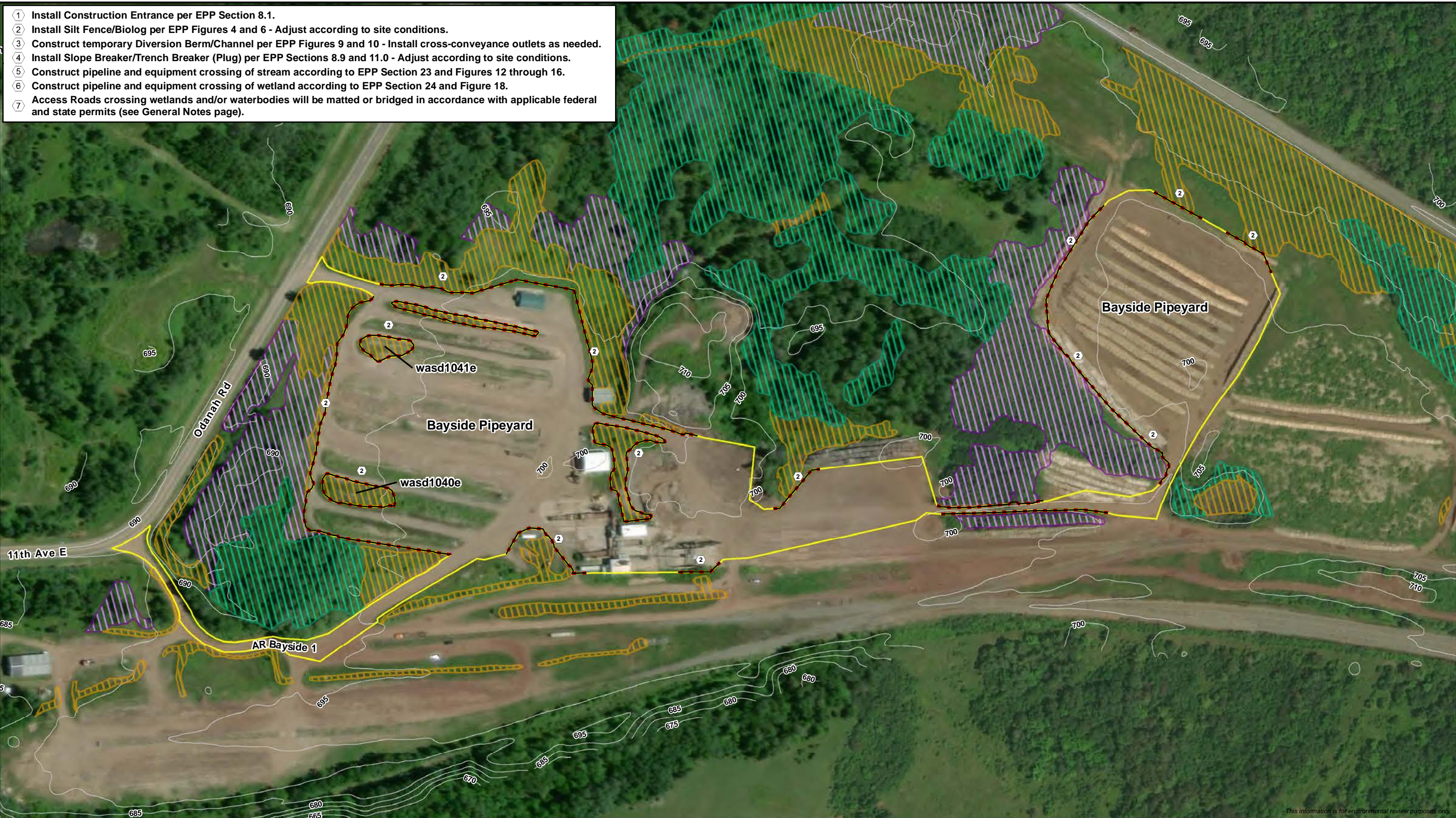
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Erosion and Sediment Control Plan
Line 5 Wisconsin Segment Relocation Project
Enbridge Energy, L.P.



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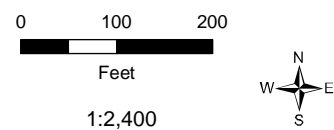
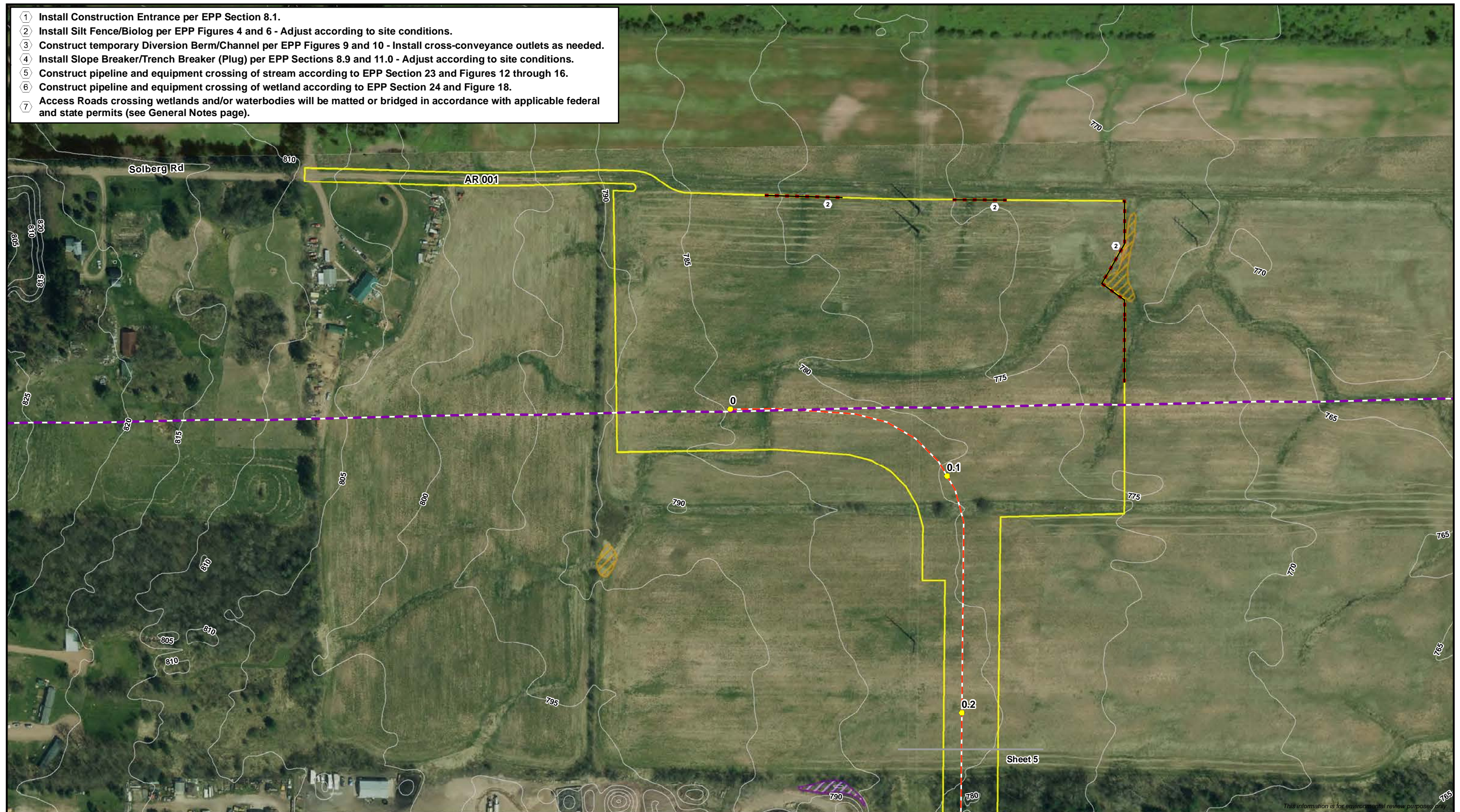
Construction Entrance	Proposed Centerline	PFO Wetland	Perennial Waterbody
Trench Breaker/Plug	HDD/Direct Bore	PSS Wetland	Intermittent Waterbody
Sediment Barrier	Proposed Workspace	PEM Wetland	Ephemeral Waterbody
>20% Ground Slope	Permanent Valve/Road	Pond	
5ft Contour	Existing Enbridge Pipeline		
Milepost			












Modeled best management practices (BMPs) are presented to illustrate how Environmental Protection Plan (EPP) measures may be implemented based on field conditions during construction. Refer to General Notes and Typical Details provided in this plan for BMP installation and sequencing.









Erosion and Sediment Control Plan
Line 5 Wisconsin Segment Relocation Project
Enbridge Energy, L.P.

Sheet 3 of 115

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-  Construction Entrance  Proposed Centerline
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-  PFO Wetland
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 PEM Wetland
  Ephemeral Waterbody
 Pond
  Modded best management practices (BMP)

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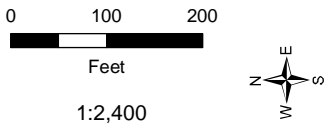
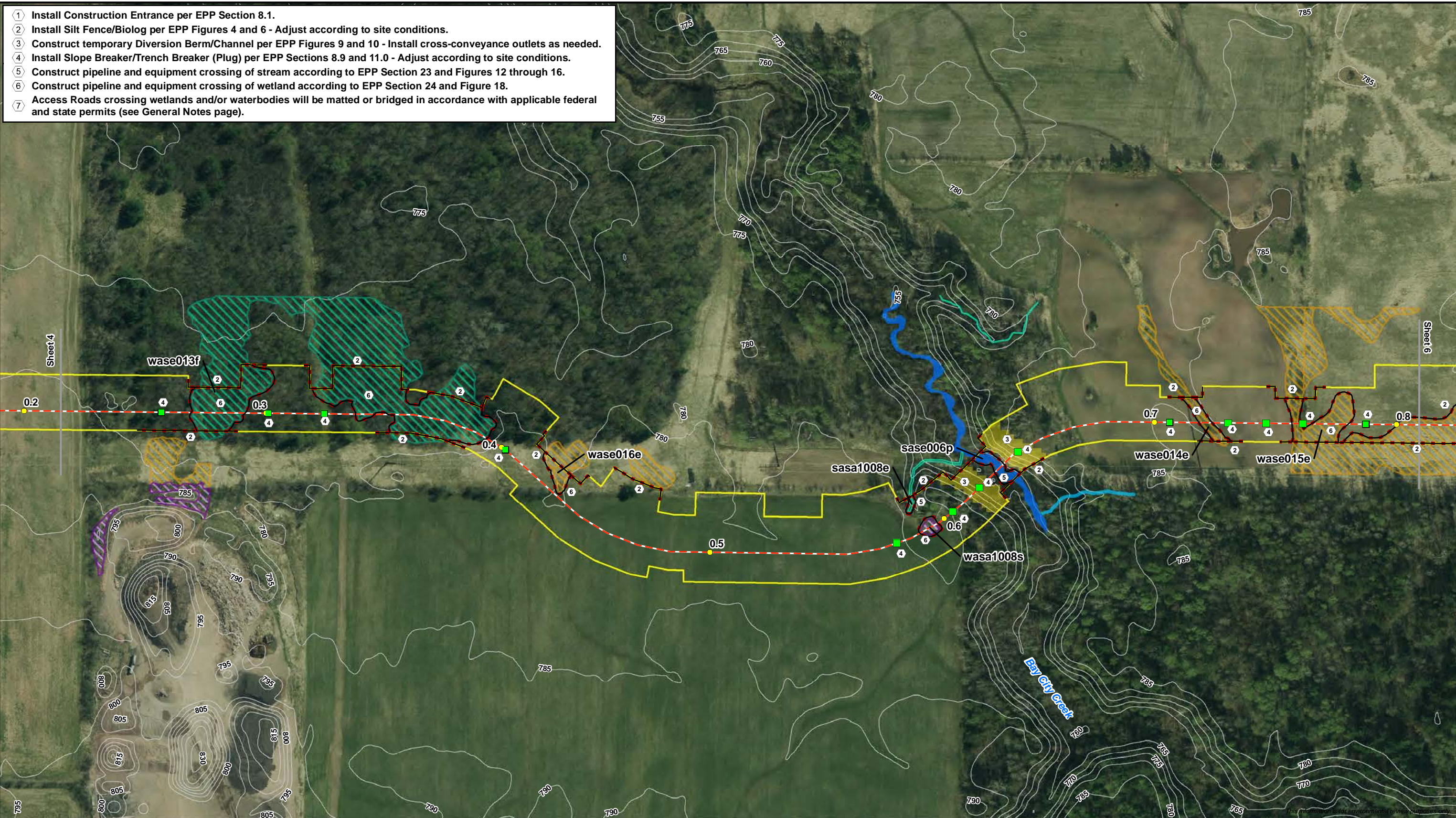
Erosion and Sediment Control Plan
Line 5 Wisconsin Segment Relocation Project
Enbridge Energy, L.P.

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- 1 Install Construction Entrance per EPP Section 8.1.
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- | | | | |
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| Sediment Barrier | Proposed Workspace | PEM Wetland | Ephemeral Waterbody |
| >20% Ground Slope | Permanent Valve/Road | Pond | |
| 5ft Contour | Existing Enbridge Pipeline | | |
| Milepost | | | |

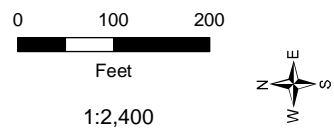
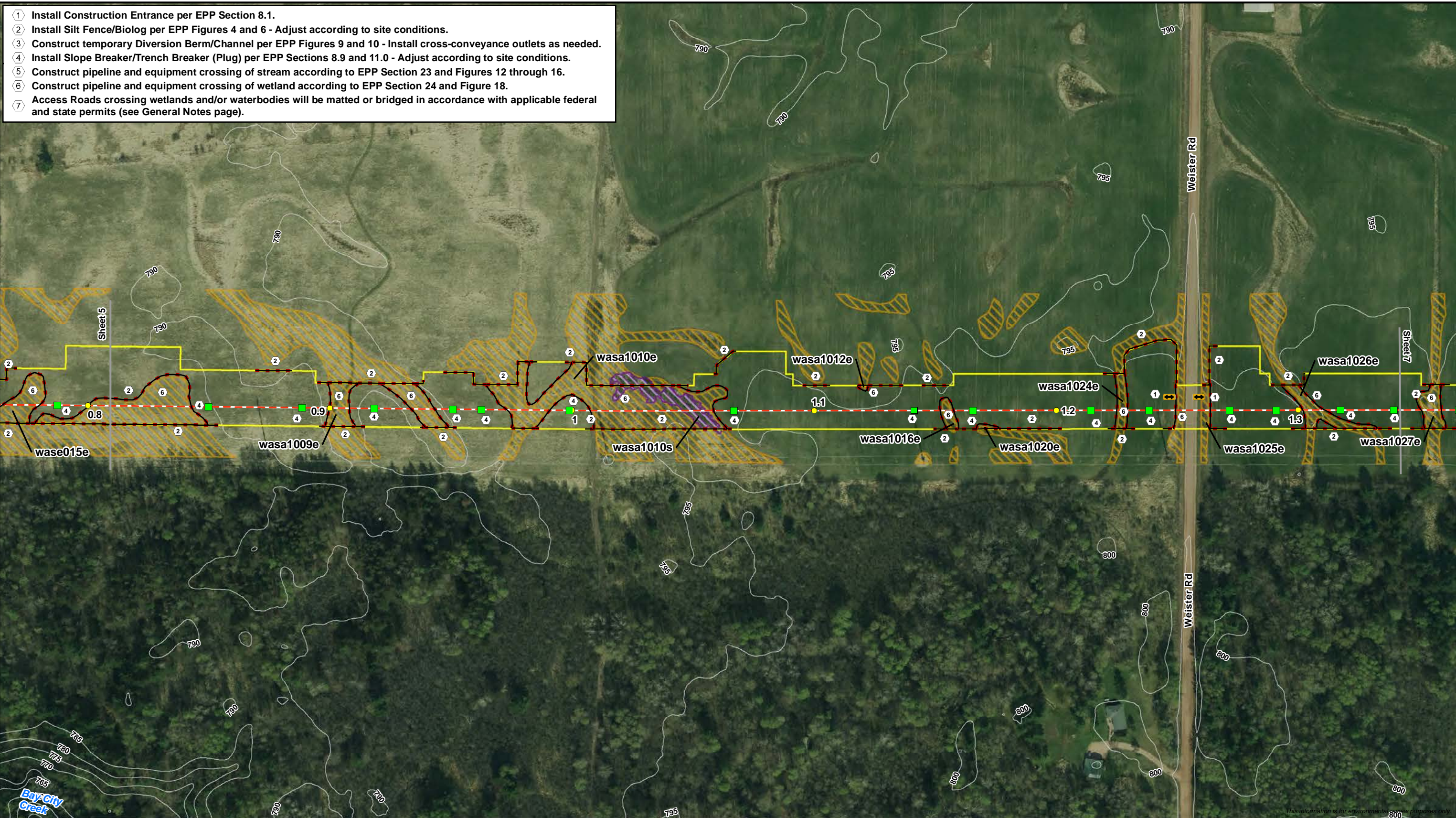
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Erosion and Sediment Control Plan
Line 5 Wisconsin Segment Relocation Project
Enbridge Energy, L.P.



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- Construction Entrance
- Trench Breaker/Plug
- Sediment Barrier
- >20% Ground Slope
- 5ft Contour
- Milepost
- Proposed Centerline
- HDD/Direct Bore
- Proposed Workspace
- Permanent Valve/Road
- Existing Enbridge Pipeline
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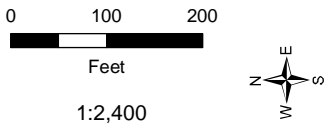
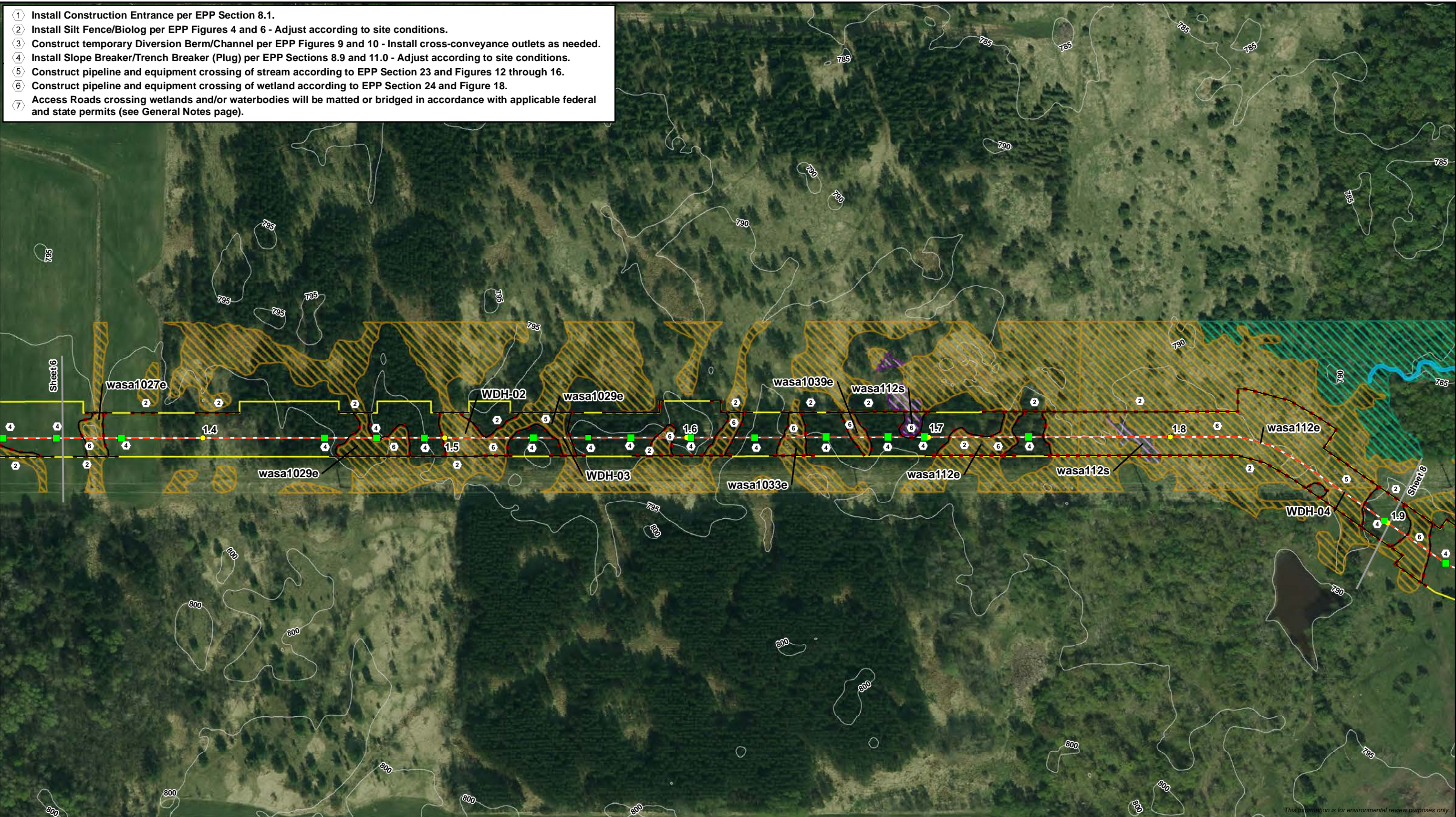
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Trench Breaker/Plug	HDD/Direct Bore	PSS Wetland	Intermittent Waterbody
Sediment Barrier	Proposed Workspace	PEM Wetland	Ephemeral Waterbody
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5ft Contour	Existing Enbridge Pipeline		
Milepost			

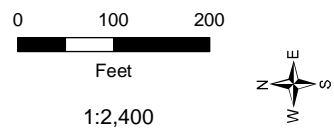
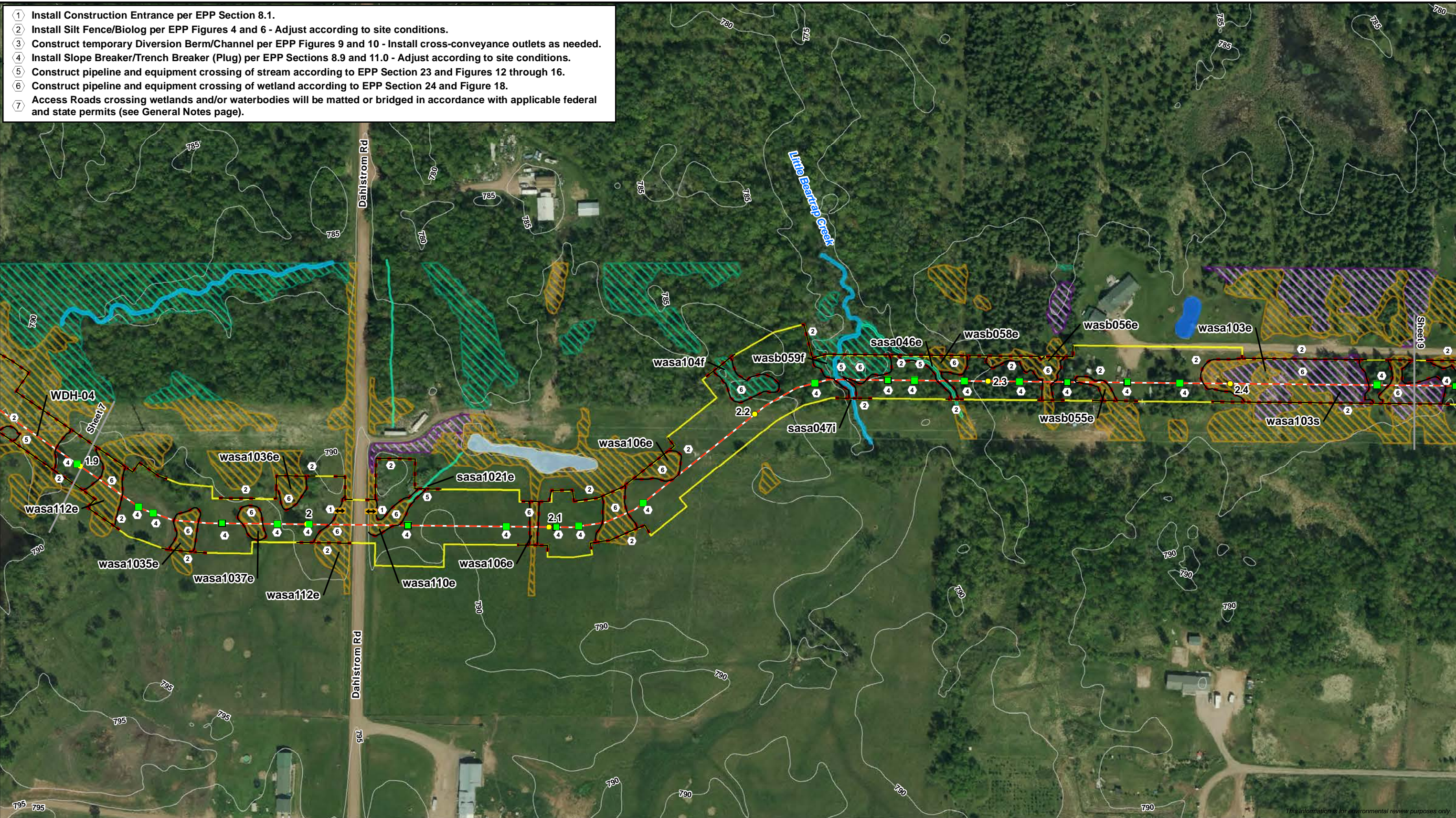
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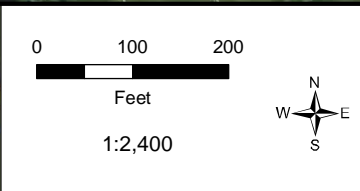
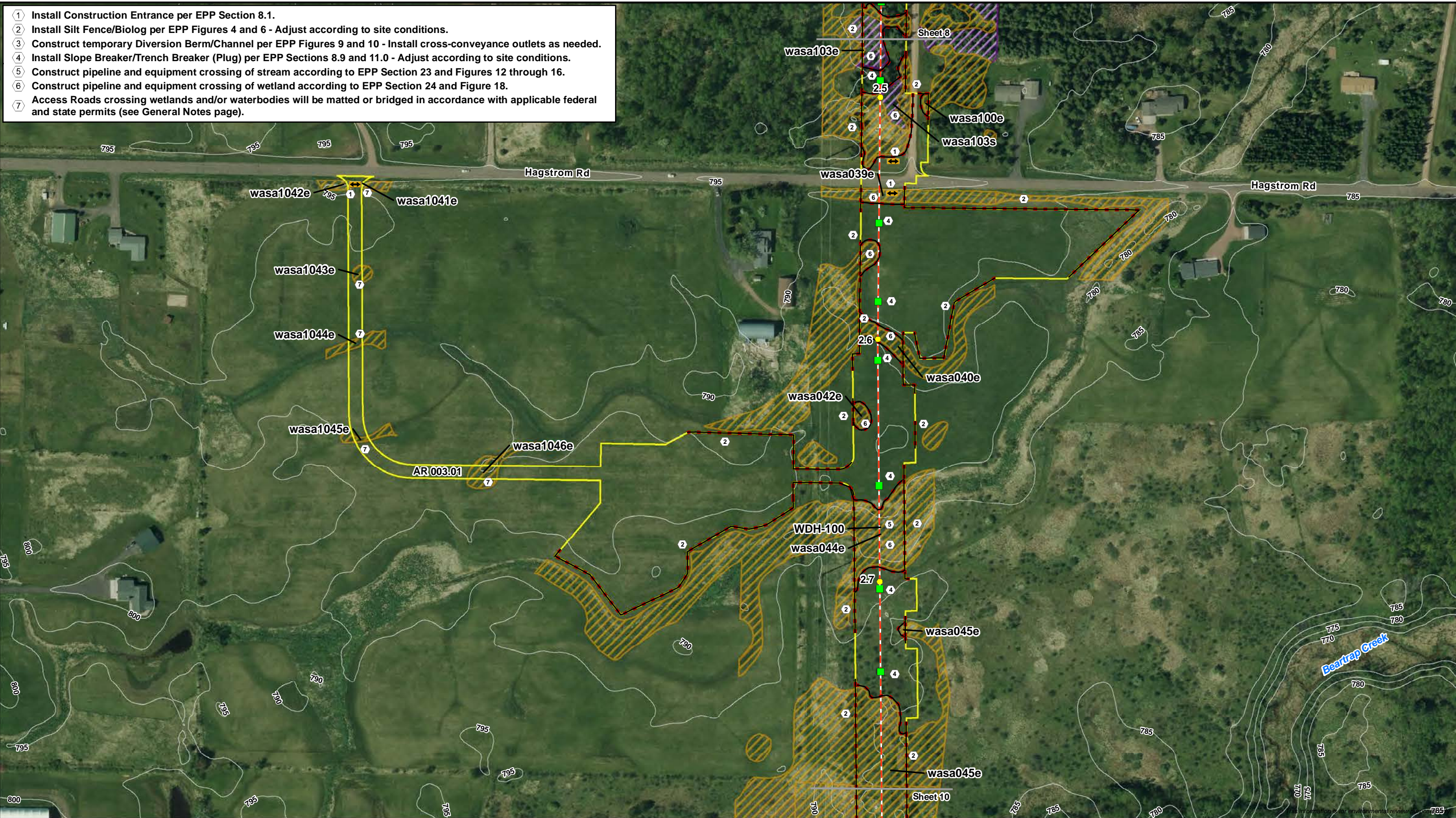
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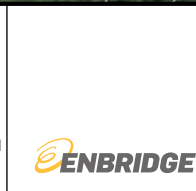


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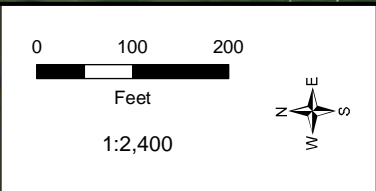
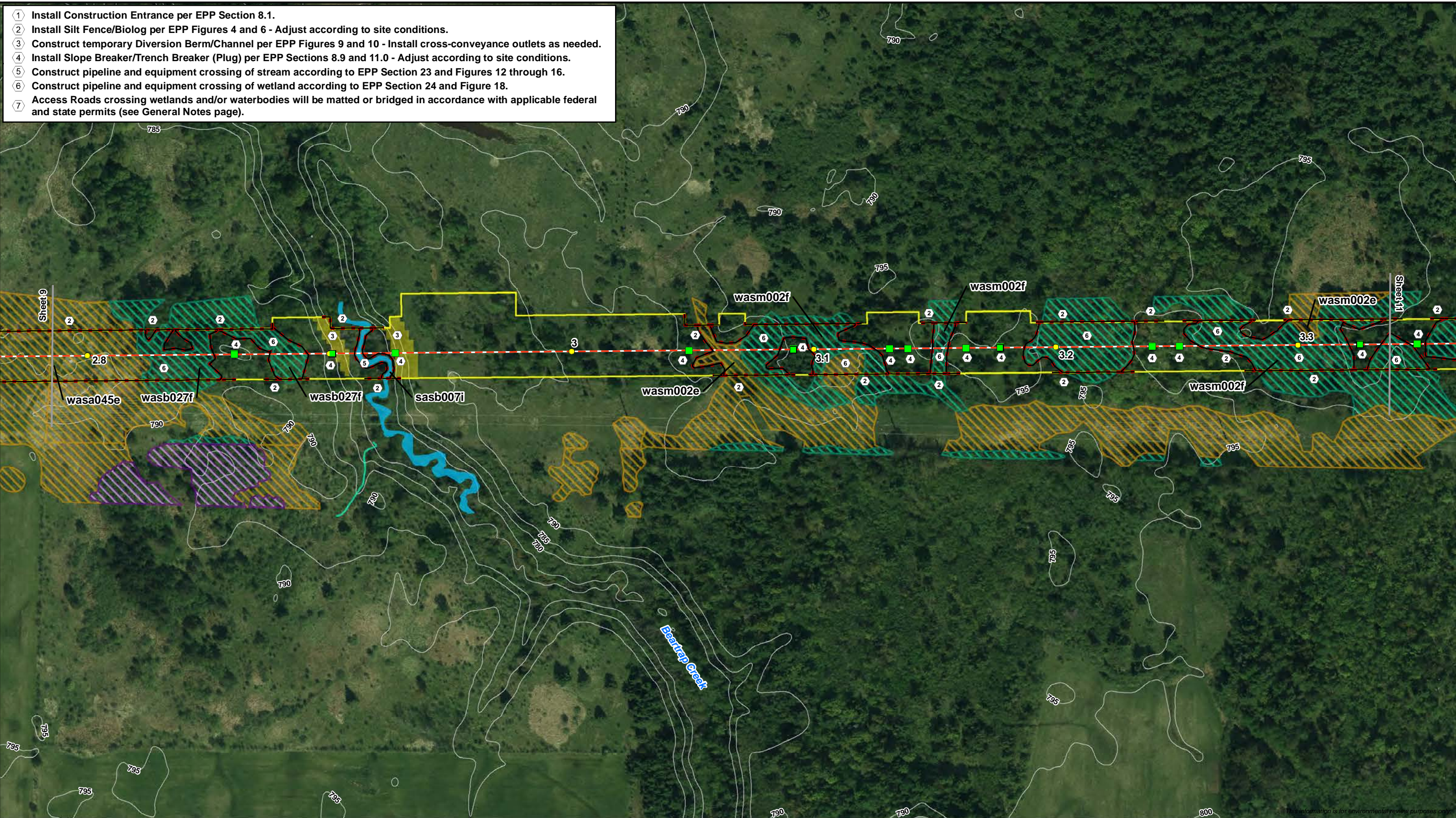
Erosion and Sediment Control Plan
Line 5 Wisconsin Segment Relocation Project
Enbridge Energy, L.P.

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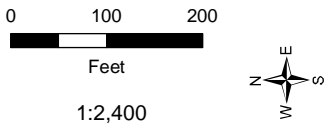
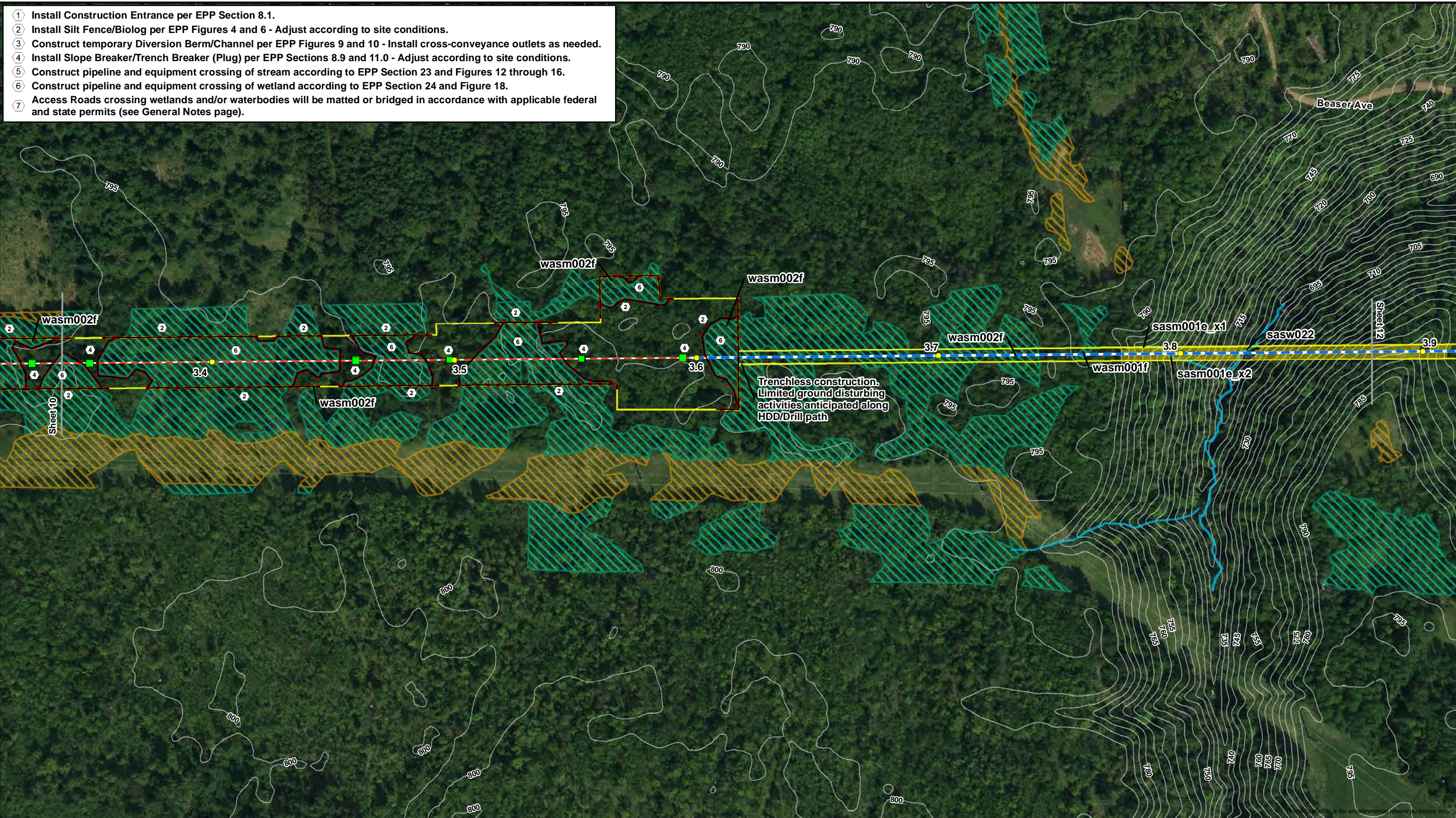
Erosion and Sediment Control Plan

Line 5 Wisconsin Segment Relocation Project

Enbridge Energy, L.P.

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Milepost			

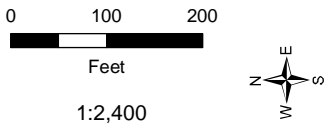
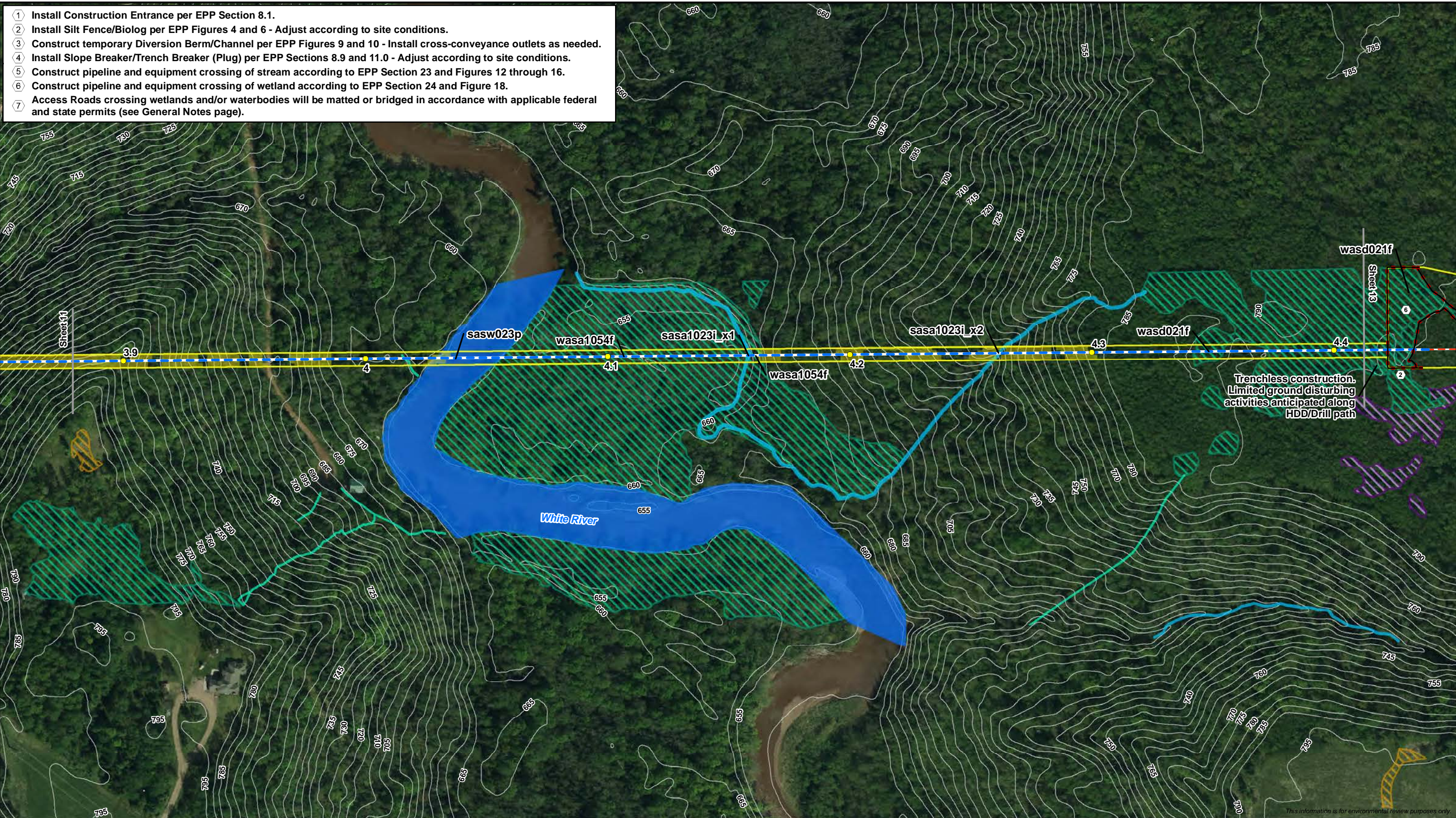
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- | | |
|-------------|------------------------|
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| Pond | |

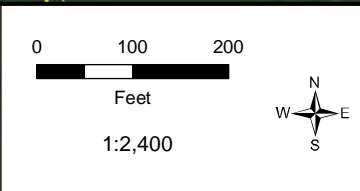
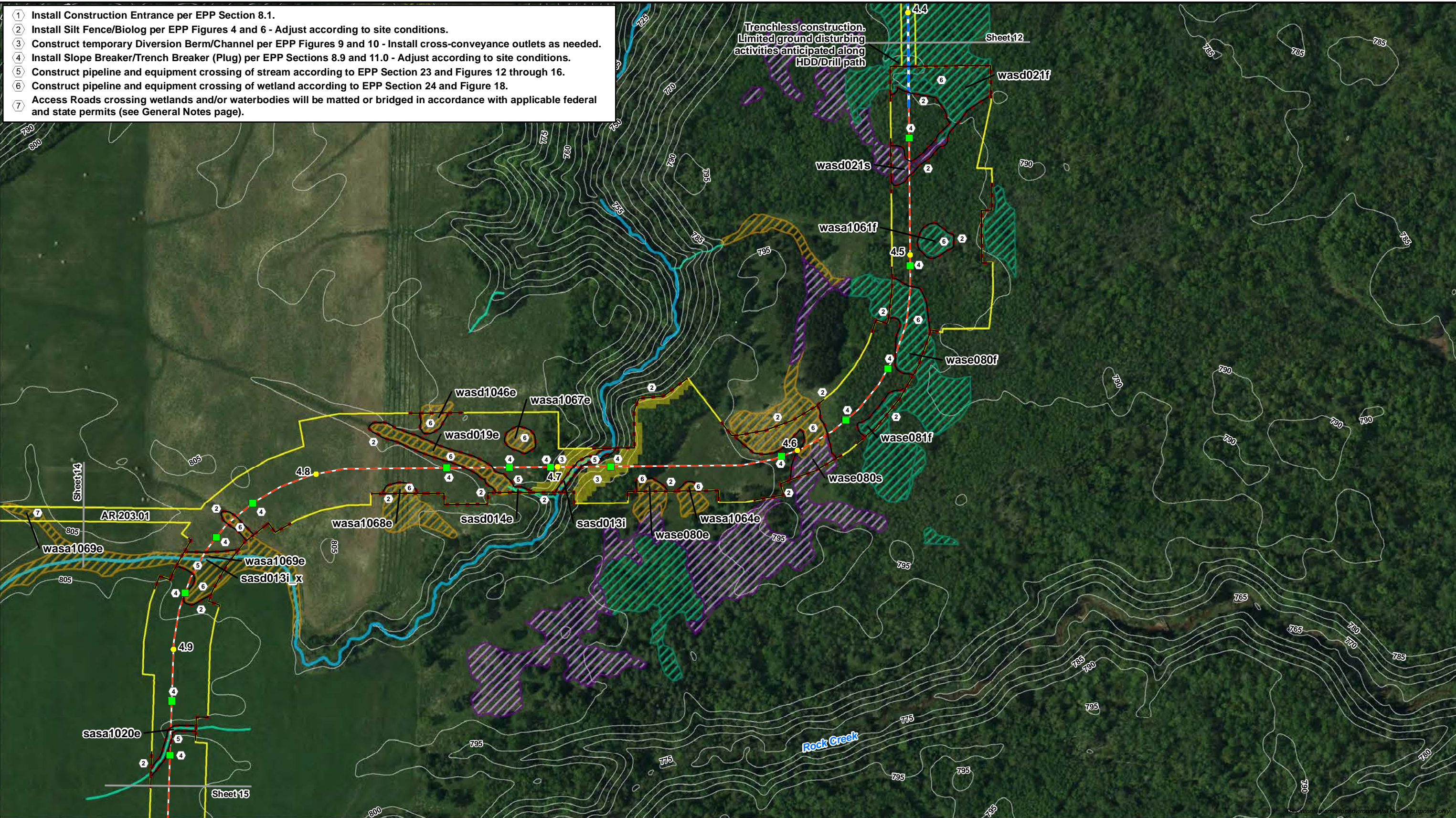
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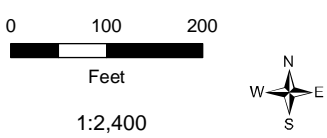
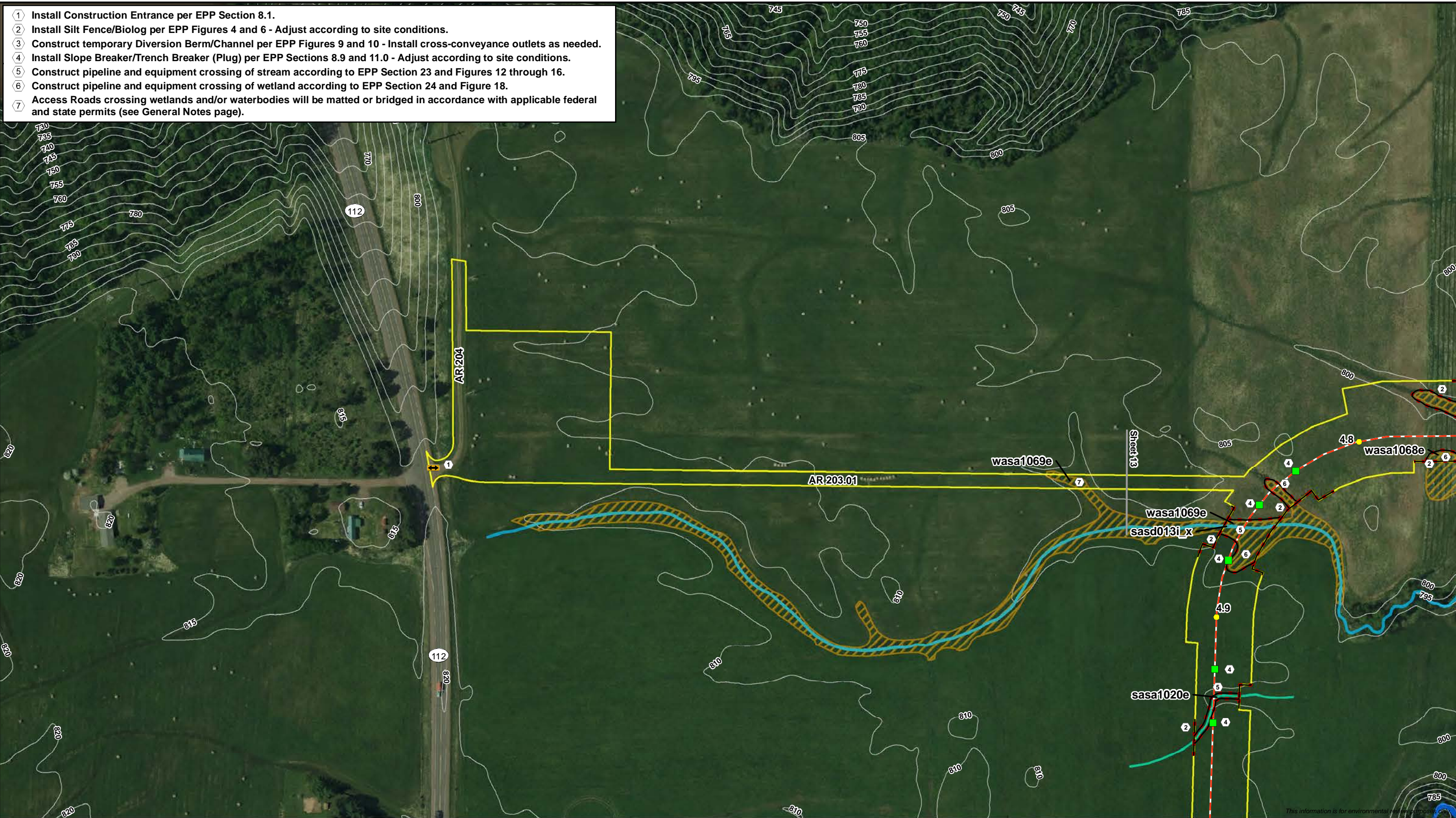
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Line 5 Wisconsin Segment Relocation Project

Enbridge Energy, L.P.

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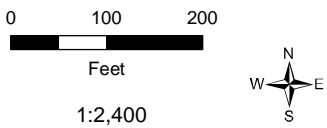
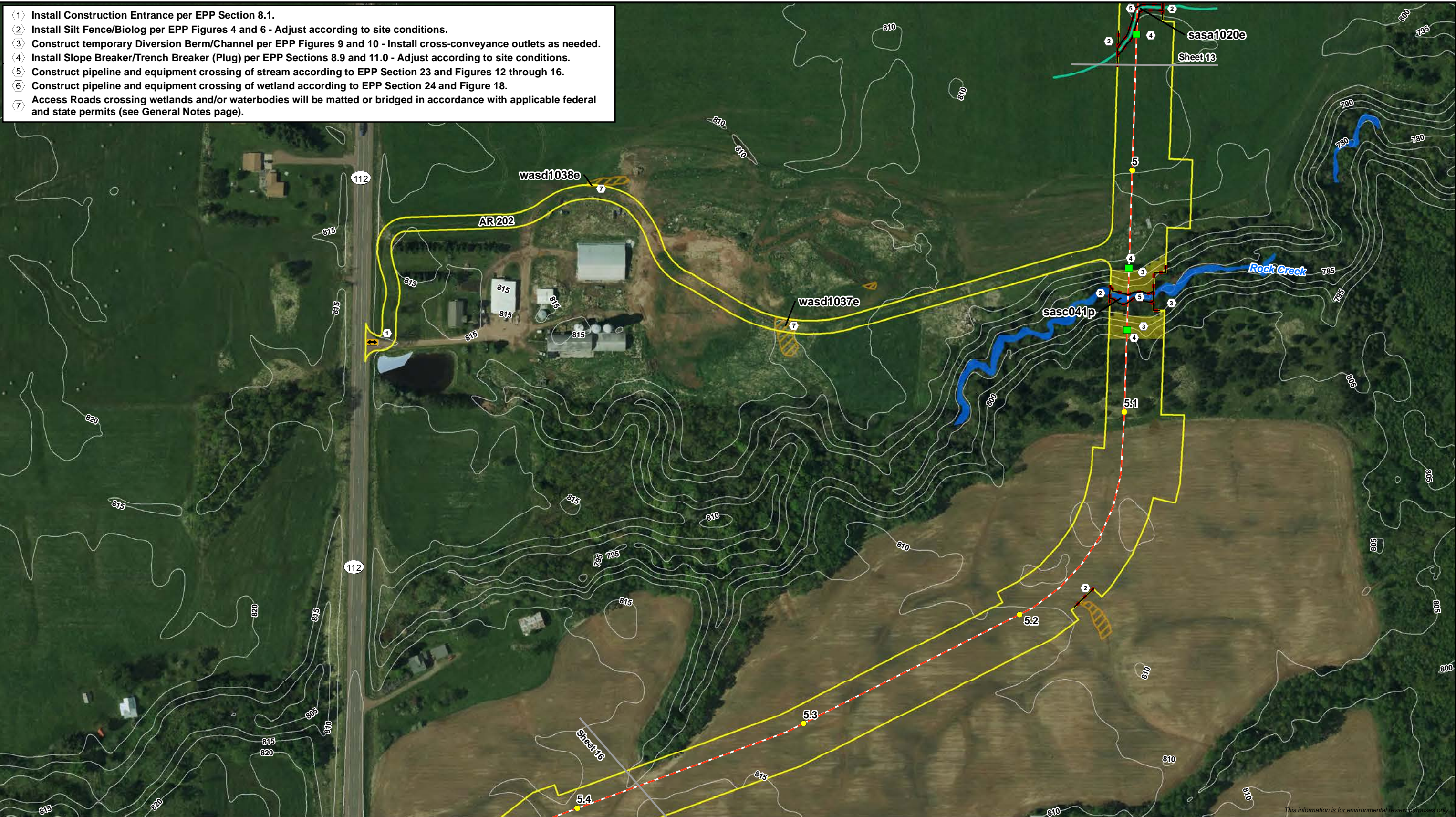
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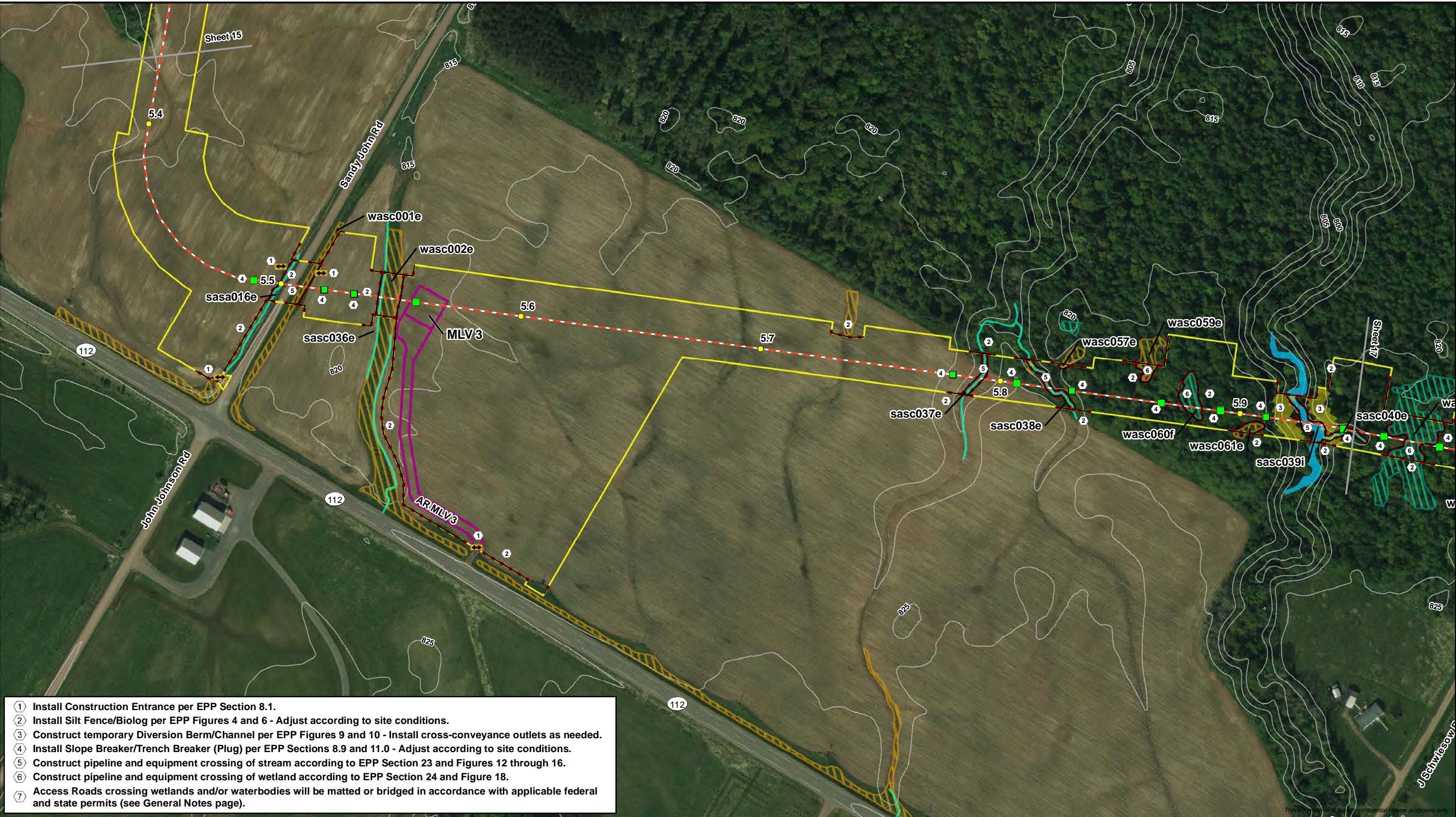


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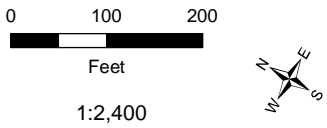
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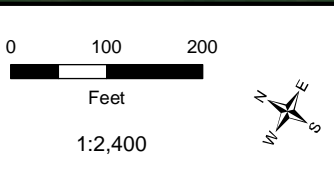
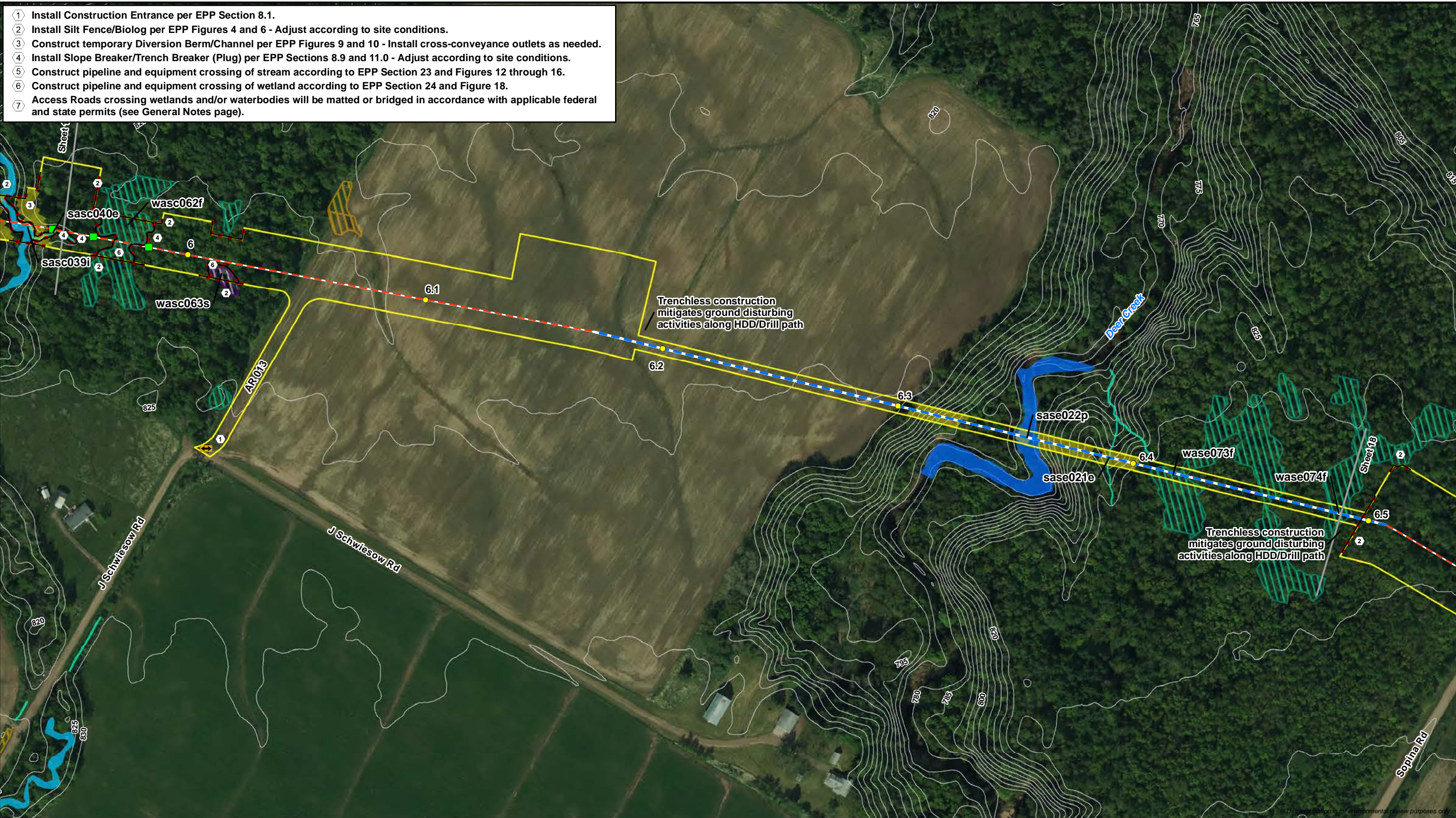
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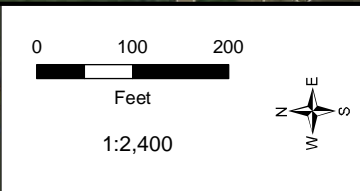
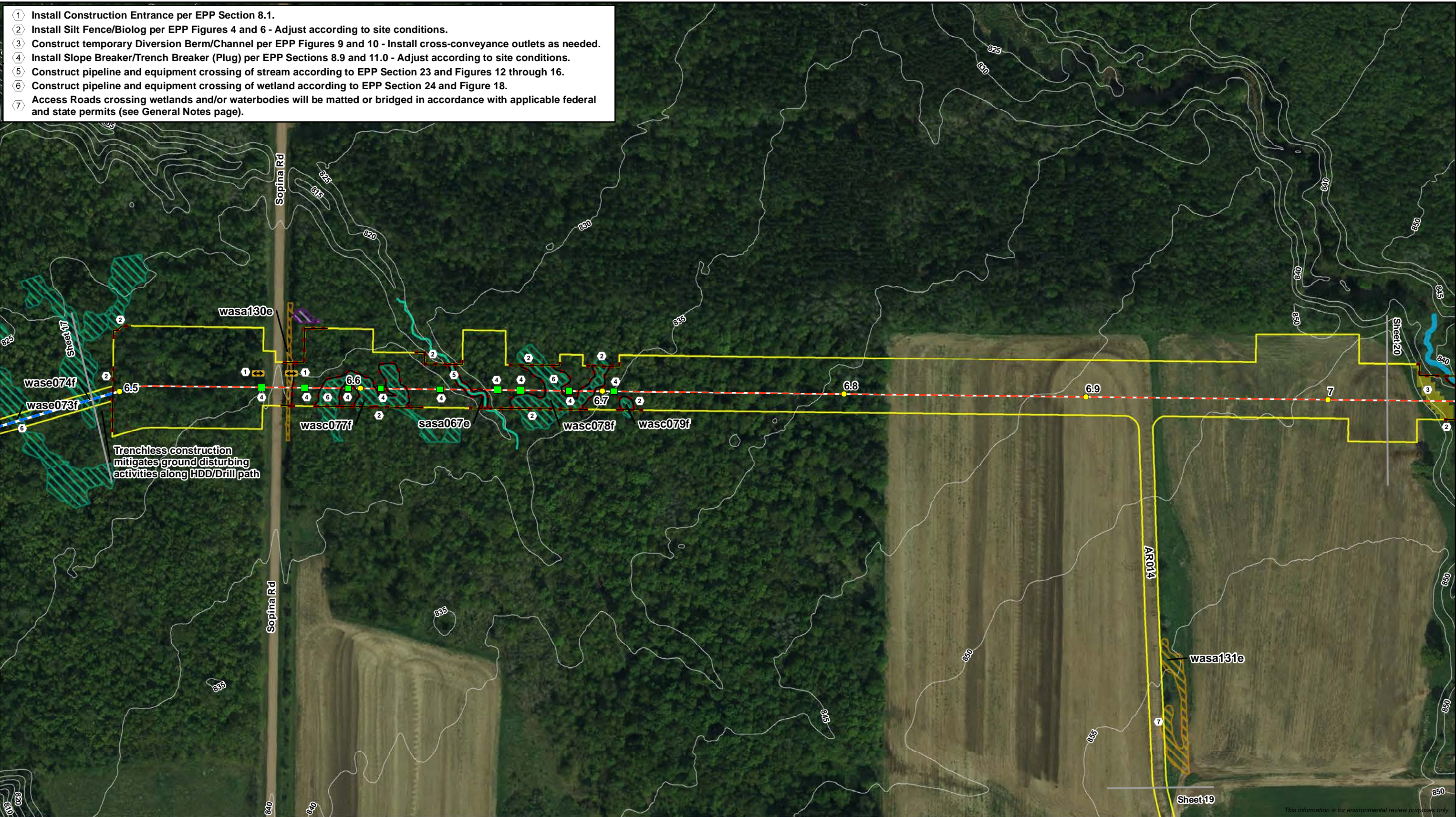


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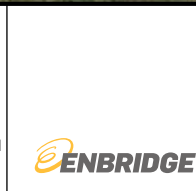


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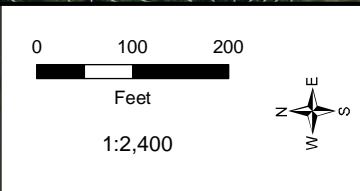
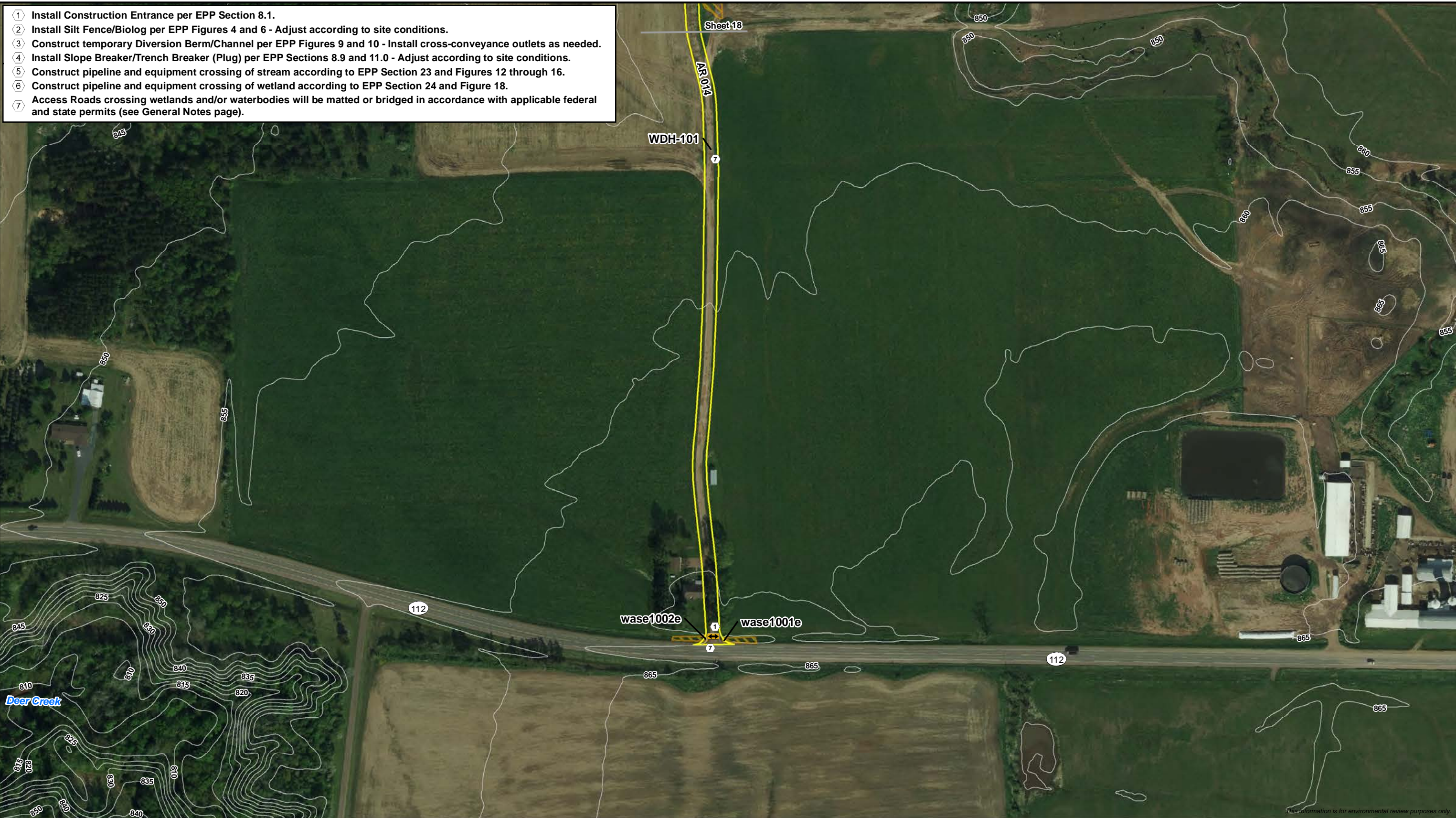


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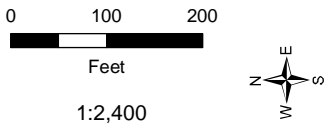
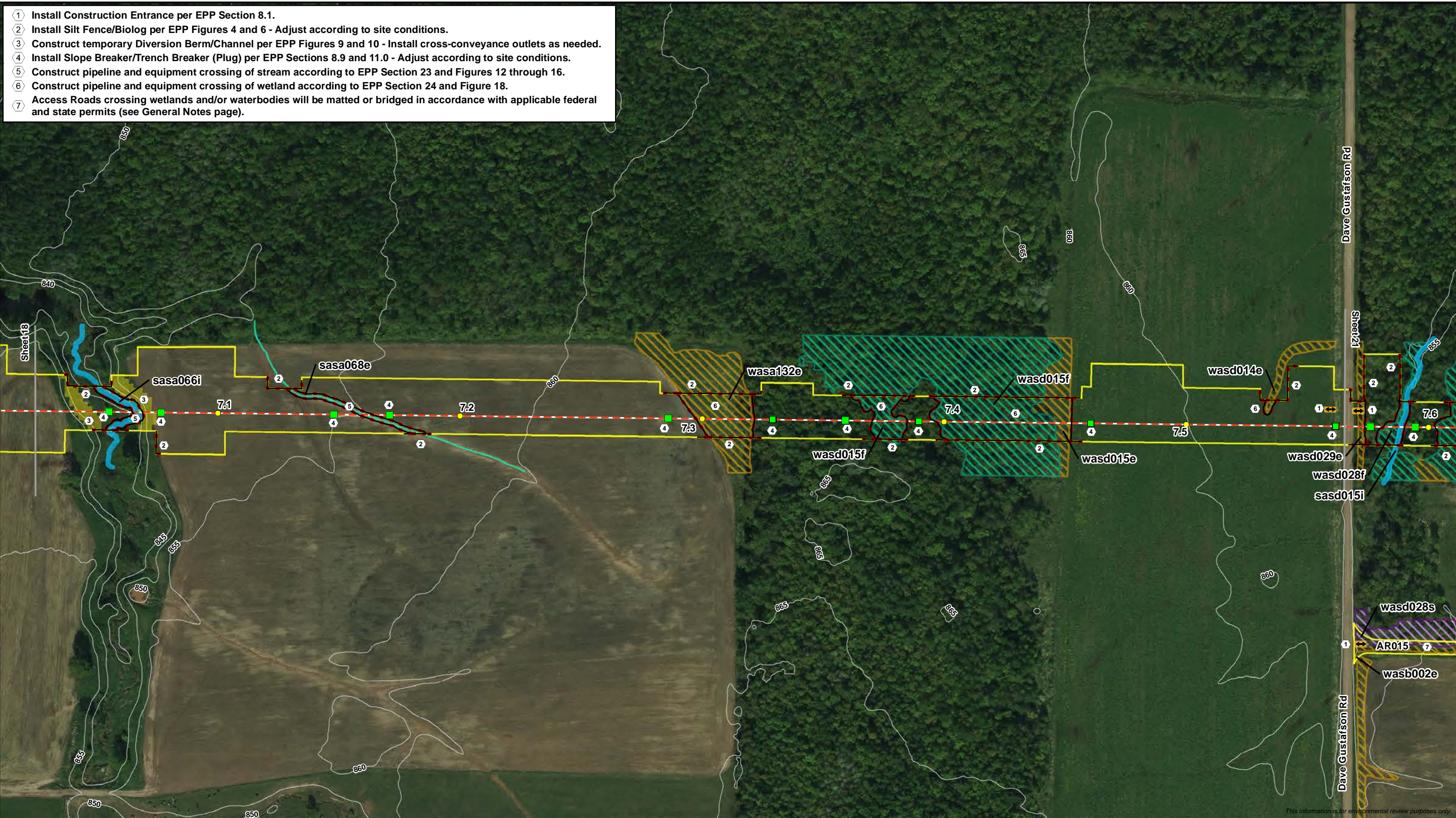
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Trench Breaker/Plug	HDD/Direct Bore	PSS Wetland	Intermittent Waterbody
Sediment Barrier	Proposed Workspace	PEM Wetland	Ephemeral Waterbody
>20% Ground Slope	Permanent Valve/Road	Pond	
5ft Contour	Existing Enbridge Pipeline		
Milepost			

Modeled best management practices (BMPs) are presented to illustrate how Environmental Protection Plan (EPP) measures may be implemented based on field conditions during construction. Refer to General Notes and Typical Details provided in this plan for BMP installation and sequencing.

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- 1 Install Construction Entrance per EPP Section 8.1.
- 2 Install Silt Fence/Biolog per EPP Figures 4 and 6 - Adjust according to site conditions.
- 3 Construct temporary Diversion Berm/Channel per EPP Figures 9 and 10 - Install cross-conveyance outlets as needed.
- 4 Install Slope Breaker/Trench Breaker (Plug) per EPP Sections 8.9 and 11.0 - Adjust according to site conditions.
- 5 Construct pipeline and equipment crossing of stream according to EPP Section 23 and Figures 12 through 16.
- 6 Construct pipeline and equipment crossing of wetland according to EPP Section 24 and Figure 18.
- 7 Access Roads crossing wetlands and/or waterbodies will be matted or bridged in accordance with applicable federal and state permits (see General Notes page).



- Construction Entrance
- Trench Breaker/Plug
- Sediment Barrier
- >20% Ground Slope
- 5ft Contour
- Milepost
- Proposed Centerline
- HDD/Direct Bore
- Proposed Workspace
- Permanent Valve/Road
- Existing Enbridge Pipeline
- PFO Wetland
- PSS Wetland
- PEM Wetland
- Pond
- Perennial Waterbody
- Intermittent Waterbody
- Ephemeral Waterbody

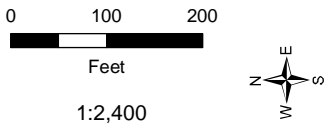
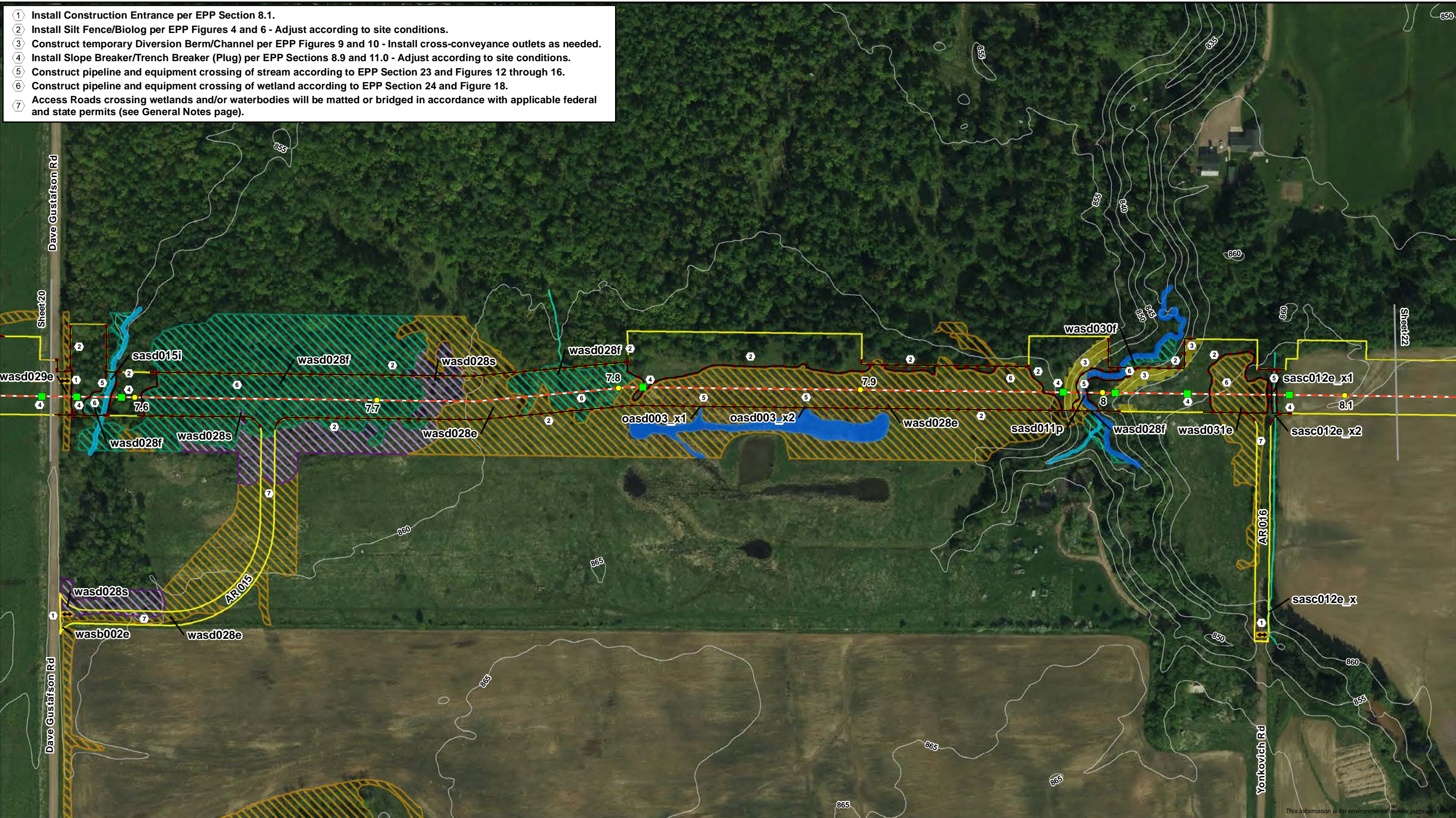
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Construction Entrance	Proposed Centerline	PFO Wetland	Perennial Waterbody
Trench Breaker/Plug	HDD/Direct Bore	PSS Wetland	Intermittent Waterbody
Sediment Barrier	Proposed Workspace	PEM Wetland	Ephemeral Waterbody
>20% Ground Slope	Permanent Valve/Road	Pond	
5ft Contour	Existing Enbridge Pipeline		
Milepost			

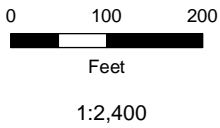
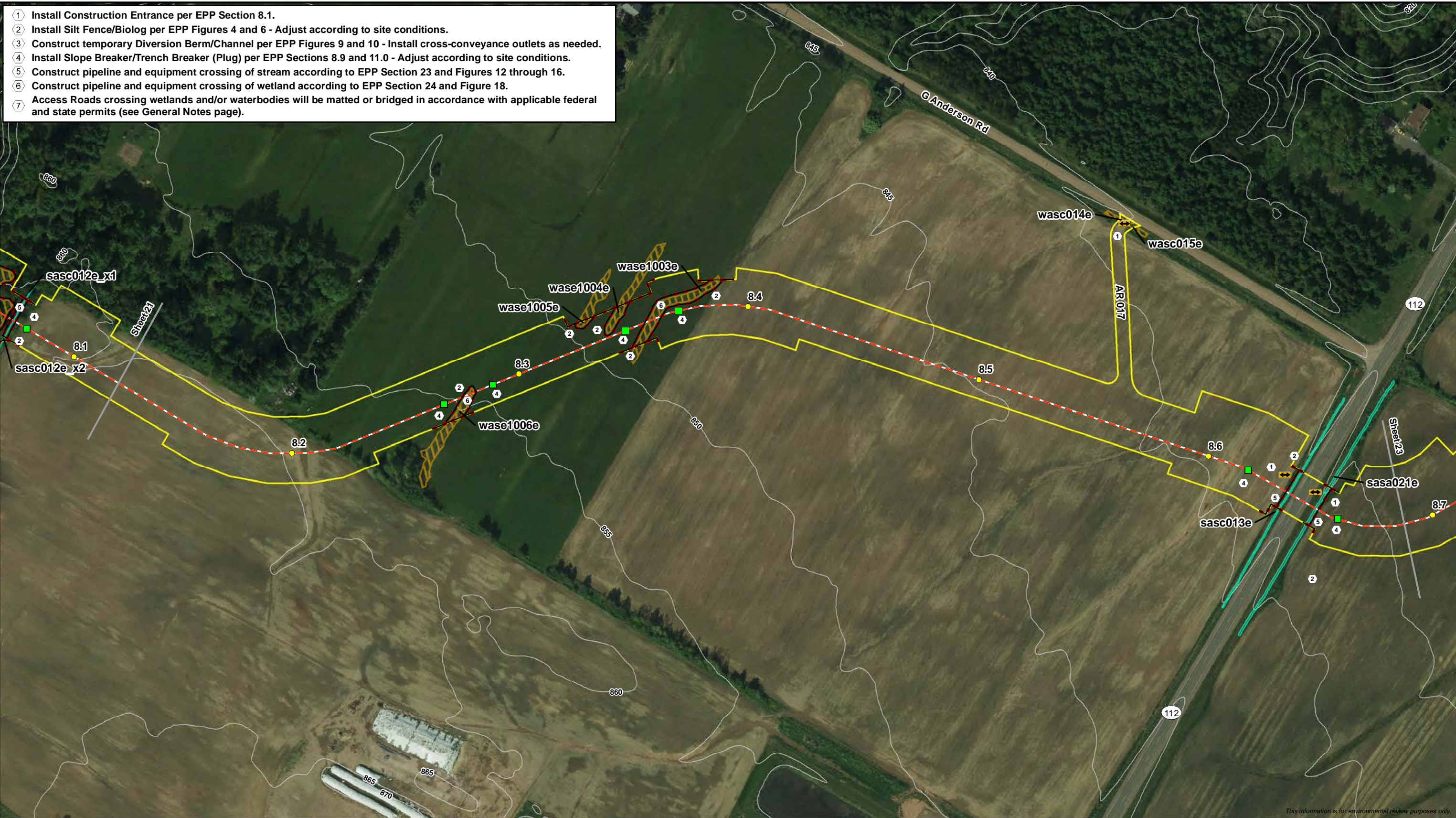
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- | | | | |
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