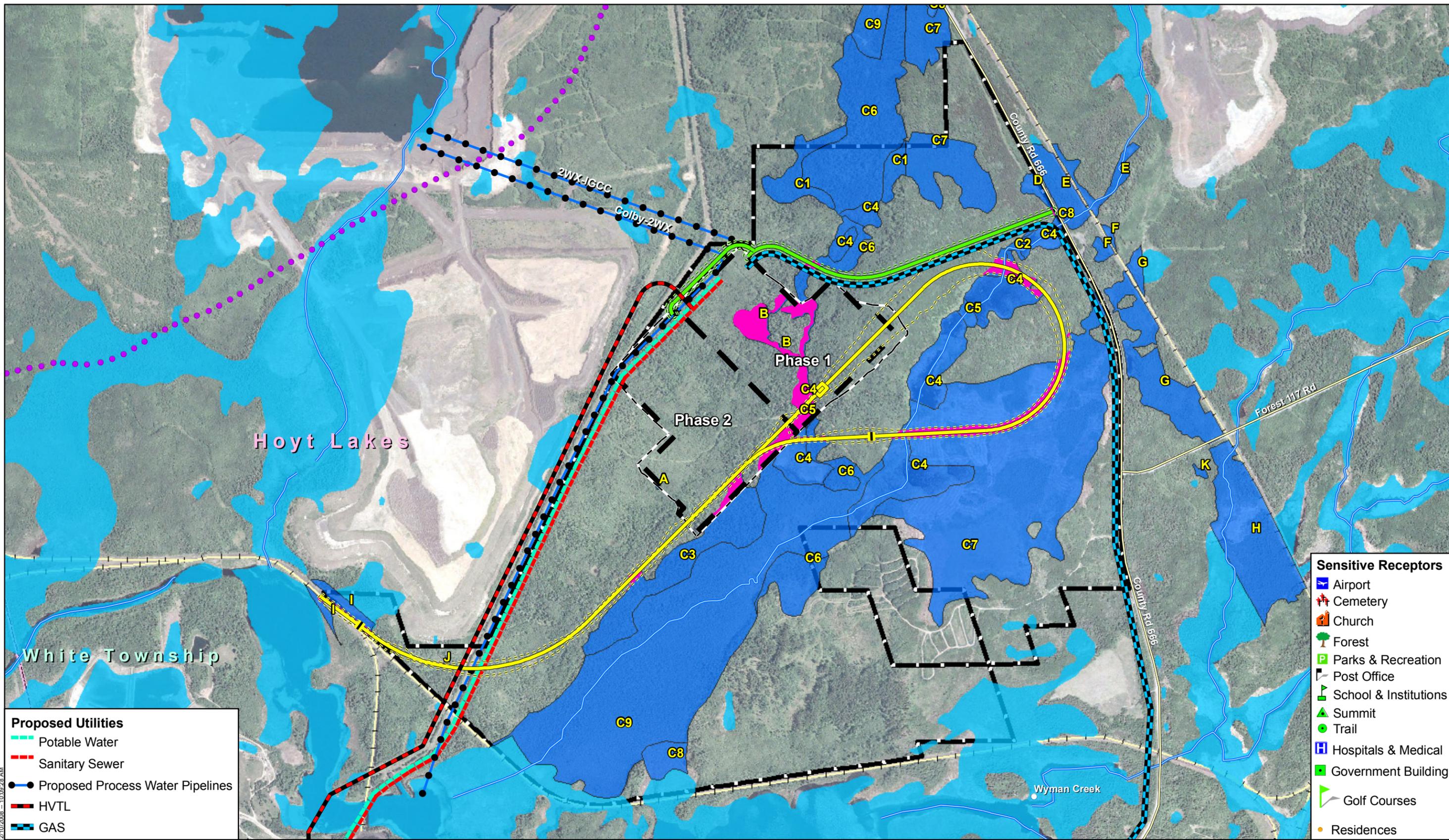


Map Document: (sps3020-1\projects\AE\Exem05020003\Environmental\GIS\WXDs_Wetland_Permit\Figure D-10 - East Range Site Layout 11x17 L.mxd)
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Proposed Utilities

- Potable Water
- Sanitary Sewer
- Proposed Process Water Pipelines
- HVTL
- GAS

Sensitive Receptors

- Airport
- Cemetery
- Church
- Forest
- Parks & Recreation
- Post Office
- School & Institutions
- Summit
- Trail
- Hospitals & Medical
- Government Building
- Golf Courses
- Residences

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 Phone 952.847.2360 Fax 952.847.2373

East Range

December 2008

Legend

Footprint and Buffer Land	Coal Train Limits	Impacted Wetlands	Existing Roads	Geographic Names
Preferred Plant Layout	Proposed Access Road	Surveyed Wetlands	Existing Railroads	Municipal Boundaries
Plant Layout Grading Limits	Proposed Access Road Beyond Surveyed Wetlands Areas	National Wetlands Inventory (NWI) [Beyond Surveyed Wetlands Areas]	Streams	Civil Township
Preferred Rail Alt 1	Permanent ROW Limits		Iron Formation	
Preferred Rail Alt 1 Construction Limits				

Appendix F

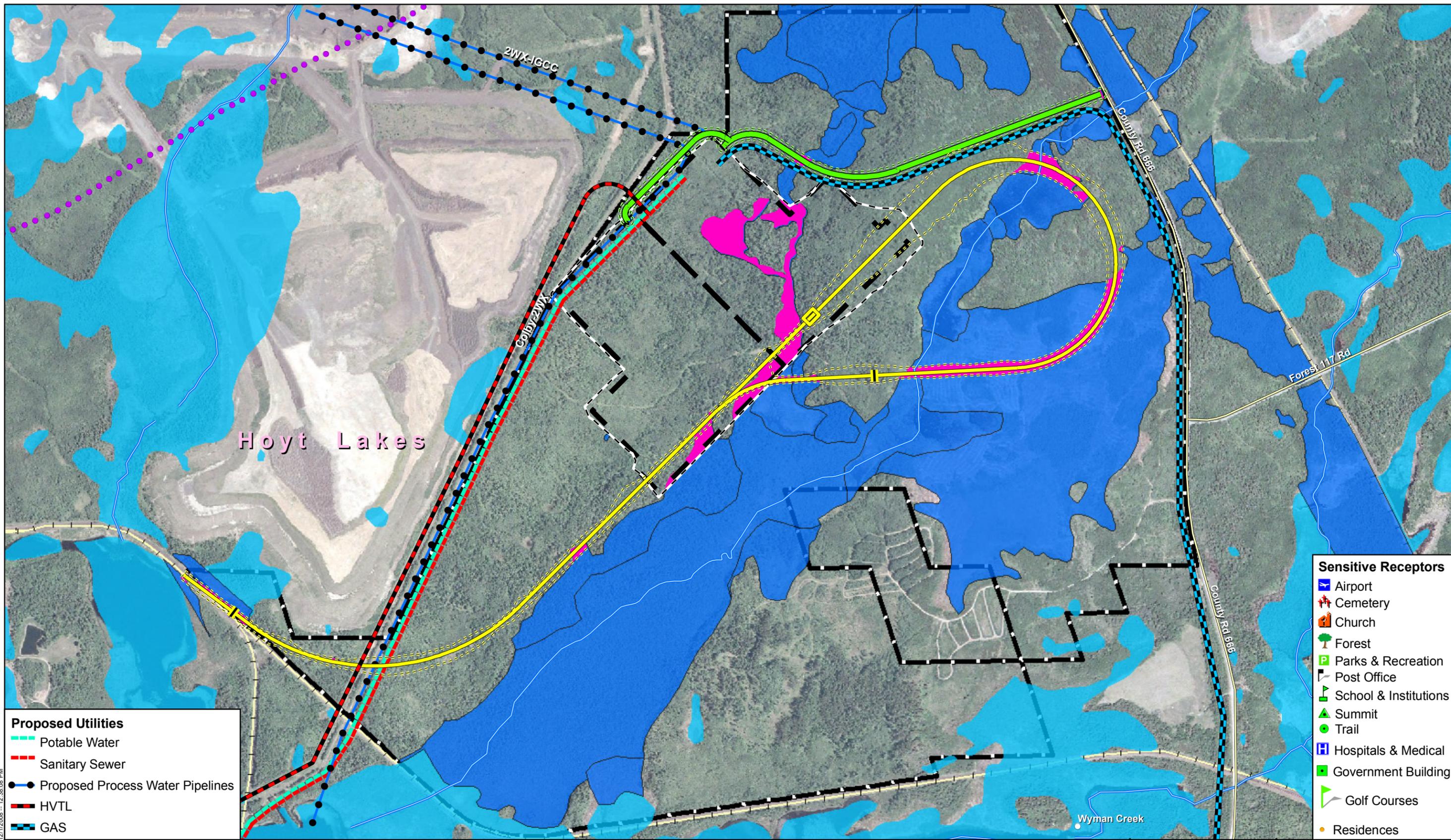
Source: NAIP 2003, Mn/DNR, Mn/DOT, USGS, USFWS, Fluor, Excelsior Energy, ESRI, and SEH. © 2008 SEH.

Figure D-10
East Range Site Layout

St. Louis County - Central Coordinate System

0 1,250 Feet

Map Document: (NSP3020-1)projects\A\EA\Exem\06020003\Environmental\GIS\MXD\Wetland_Permit\Figure D-11- ER NorthEast Plant Alternative 11x17 L.mxd
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Proposed Utilities

- Potable Water
- Sanitary Sewer
- Proposed Process Water Pipelines
- HVTL
- GAS

Sensitive Receptors

- Airport
- Cemetery
- Church
- Forest
- Parks & Recreation
- Post Office
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East Range

December 2008

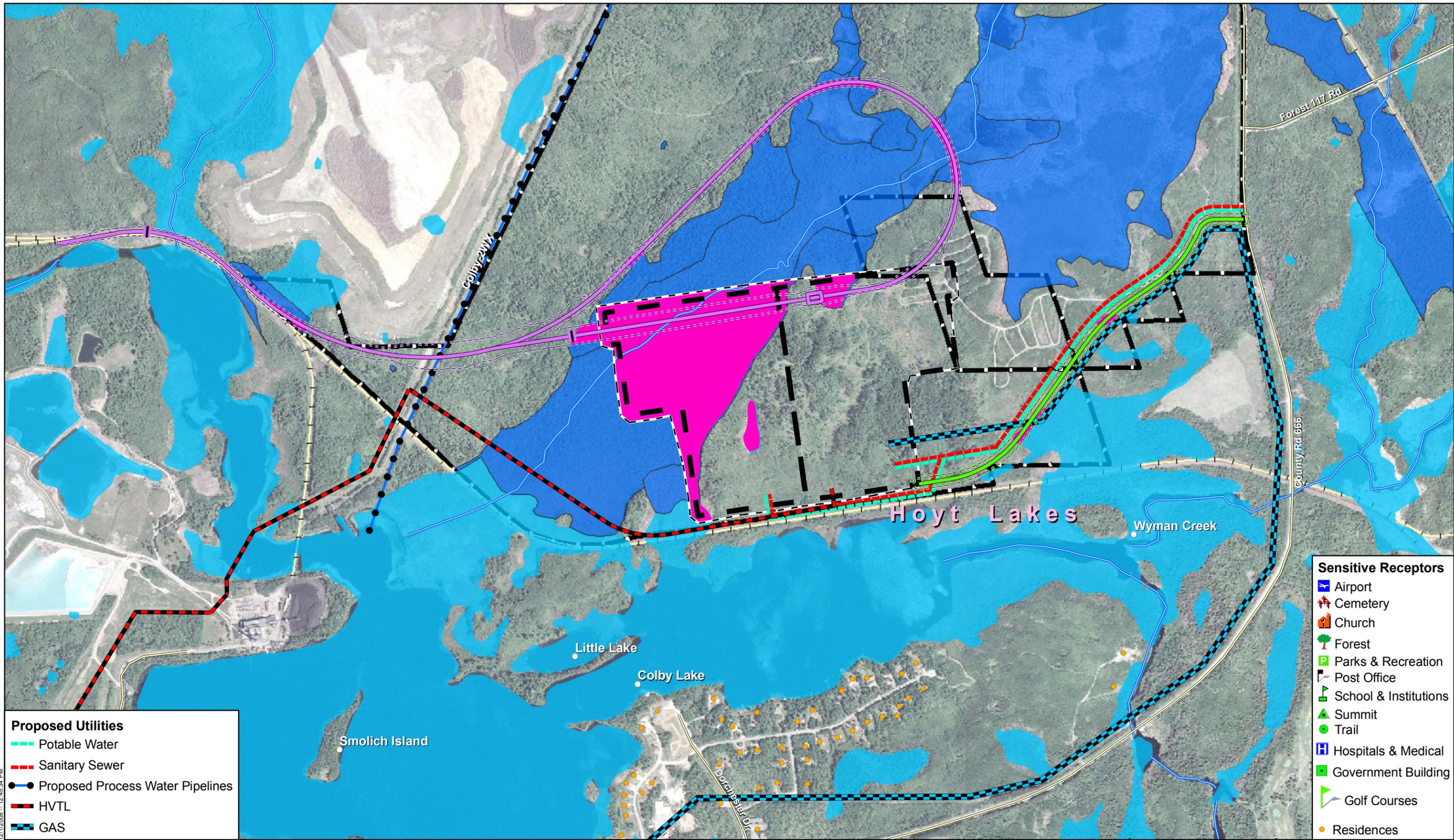
Legend

Footprint and Buffer Land	Coal Train Limits	Impacted Wetlands	Existing Roads	Geographic Names
Plant Layout NE SHIFT (50')	Proposed Access Road	Surveyed Wetlands	Existing Railroads	Municipal Boundaries
Plant Layout Grading Limits	Proposed Access Road Permanent ROW Limits	National Wetlands Inventory (NWI) [Beyond Surveyed Wetlands Areas]	Streams	Civil Township
Preferred Rail Alt 1	Preferred Rail Alt 1 Construction Limits		Iron Formation	

Figure D-11
East Range
NE Plant Shift (50')

St. Louis County - Central Coordinate System

Map Document: \NS\3020-1\projects\AEE\Exam\06020003\Environmental\GIS\MXD\Wetland_Permit\Figure D-12 - ER Southern Plant\Alternative 1\1x17_L.mxd
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Proposed Utilities

- Potable Water
- Sanitary Sewer
- Proposed Process Water Pipelines
- HVTL
- GAS

Sensitive Receptors

- Airport
- + Cemetery
- ✕ Church
- 🌲 Forest
- 🏞️ Parks & Recreation
- 📮 Post Office
- 🎓 School & Institutions
- ⚡ Summit
- 🚶 Trail
- 🏥 Hospitals & Medical
- 🏛️ Government Building
- 🏌️ Golf Courses
- Residences

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East Range

December 2008

Legend

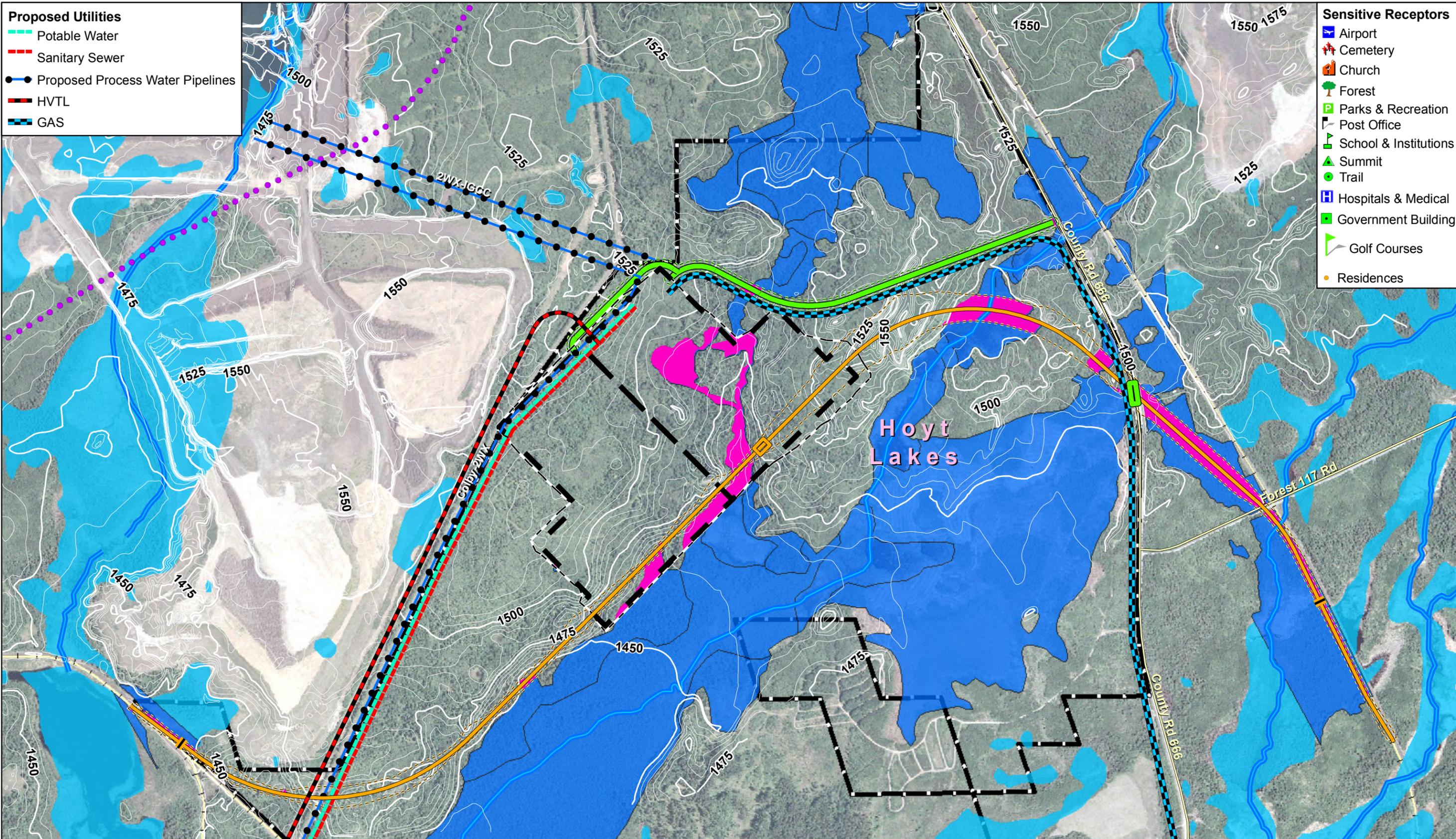
— Footprint and Buffer Land	— Coal Train Limits	— Impacted Wetlands	○ Geographic Names
— Plant Layout (South Plant Site)	— Proposed Access Road	— Surveyed Wetlands	— Municipal Boundaries
- - Plant Layout Grading Limits	- - Proposed Access Road	— National Wetlands Inventory (NWI) [Beyond Surveyed Wetlands Areas]	— Civil Township
— Preferred Rail Alt 4	— Permanent ROW Limits	— Existing Roads	○ Iron Formation
- - Preferred Rail Alt 4		— Existing Railroads	
- - - Construction Limits		— Streams	

Source: NAIP 2003, Mn/DNR, Mn/DOT, USGS, USFWS, Fluor, Excelsior Energy, ESRI, and SEH. © 2008 SEH

Figure D-12
East Range (South Site) Rail Alternative 4

St. Louis County - Central Coordinate System

Map Document: (NSP3020-1\projects\A\EA\Exem\05020003 Environmental\GIS\MXD_s\Wetland_Permit\Figure D-13 - East Range Plant Railroad Alternative 2 11x17 L.mxd) 12/1/2008 -- 12:48:13 PM



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East Range

December 2008

Legend

Footprint and Buffer Land	Coal Train Limits	Impacted Wetlands	Existing Roads	Geographic Names
Preferred Plant Layout	Proposed Access Road	Surveyed Wetlands	Existing Railroads	Municipal Boundaries
Plant Layout Grading Limits	Proposed Access Road Permanent ROW Limits	National Wetlands Inventory (NWI) [Beyond Surveyed Wetlands Areas]	Streams	Civil Township
Rail Alt 2	Construction Limits	Iron Formation		

Appendix F

Source: NAIP 2003, Mn/DNR, Mn/DOT, USGS, USFWS, Fluor, Excelsior Energy, ESRI, and SEH. © 2008 SEH

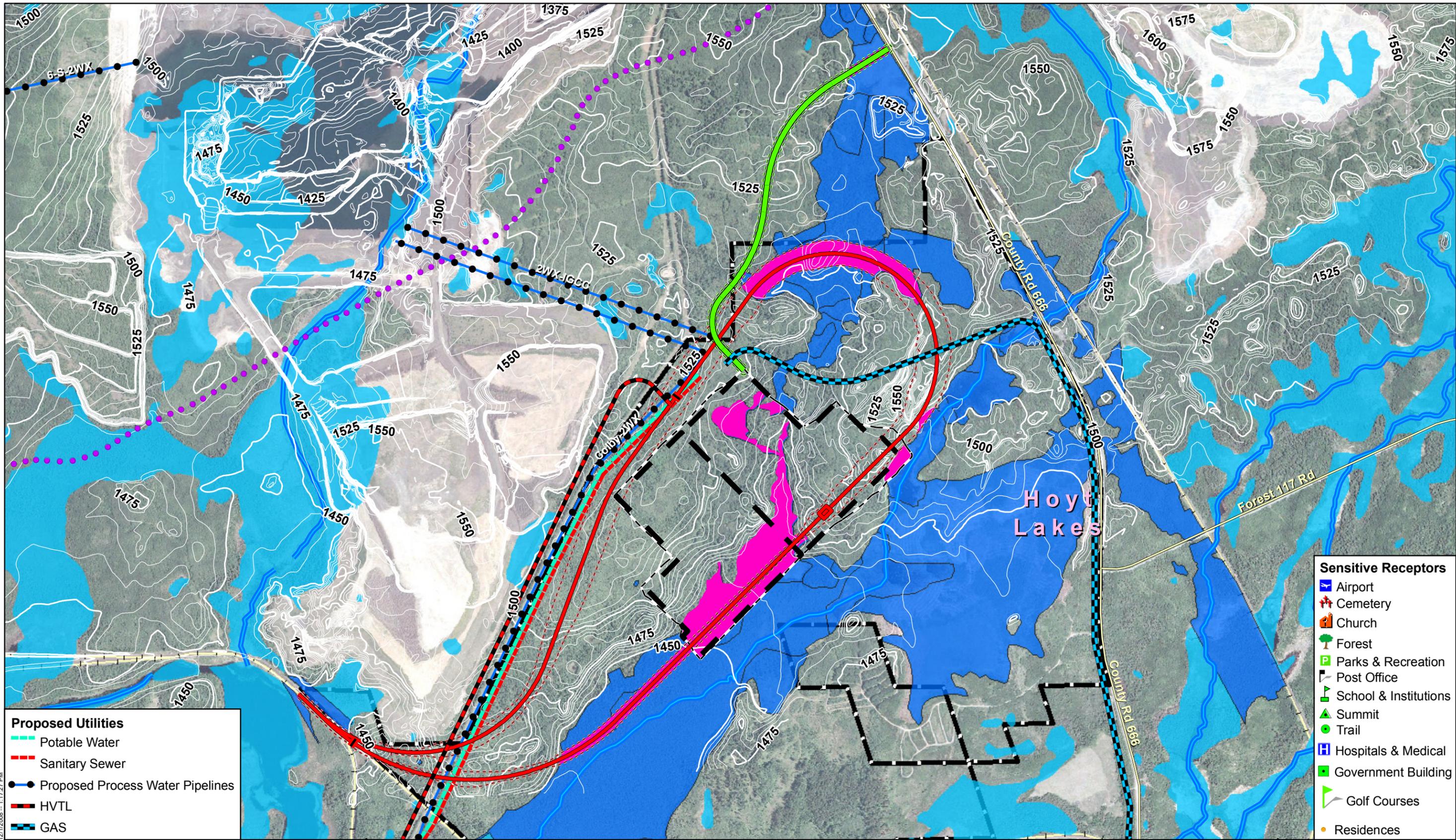
Figure D-13

East Range Railroad Alternative 2

St. Louis County - Central Coordinate System

0 1,000 Feet

Map Document: NSP3020-1\projects\A\EA\Exem\05020003\Environmental\GIS\MXD\Wetland_Permit\Figure D-14 - East Range Plant Railroad Alternative 3 (1x17 L.mxd)
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Proposed Utilities

- Potable Water
- Sanitary Sewer
- Proposed Process Water Pipelines
- HVTL
- GAS

Sensitive Receptors

- Airport
- + Cemetery
- ✕ Church
- 🌲 Forest
- 🏞️ Parks & Recreation
- ✉️ Post Office
- 🎓 School & Institutions
- ▲ Summit
- Trail
- 🏥 Hospitals & Medical
- 🏛️ Government Building
- 🏌️ Golf Courses
- Residences

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East Range

December 2008

Legend

 Footprint and Buffer Land	 Coal Train Limits	 Impacted Wetlands	— Existing Roads	 Geographic Names
 Plant Layout (500' SE Shift)	 Proposed Access Road	 Surveyed Wetlands	— Existing Railroads	 Municipal Boundaries
 Plant Layout Grading Limits	 Proposed Access Road	 National Wetlands Inventory (NWI) [Beyond Surveyed Wetlands Areas]	● Streams	 Civil Township
 Rail Alt 3	 Permanent ROW Limits	● Iron Formation		
 Rail Alt 3				
 Construction Limits				

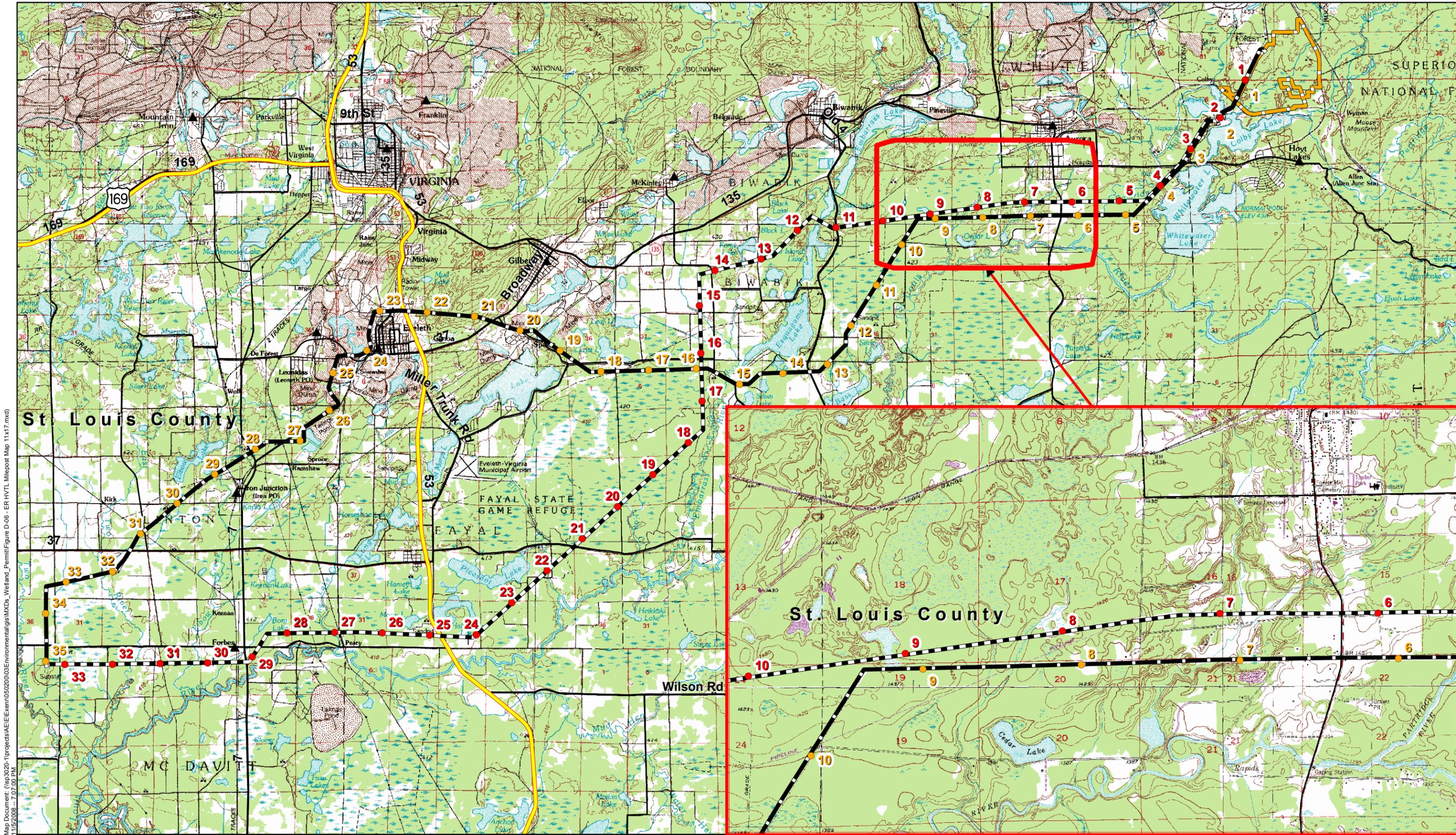
Figure D-14
East Range Railroad Alternative 3

St. Louis County - Central Coordinate System

0 1,250 Feet



Figure F2-22. East Range Road Alternatives
Appendix F



Map Document: (isp3020-1)projects\A\E\Exem\0502003\Environmental\GIS\MXD\Wetland_Permit\Figure D-06 - ER HVTL Milepost Map 11x17.mxd
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East Range

November 2008

Legend

- Footprint and Buffer Land
- HVTL Alt 1
- HVTL Alt 2 (Preferred)

- HVTL Alt 1 Mileposts
- HVTL Alt 2 Mileposts

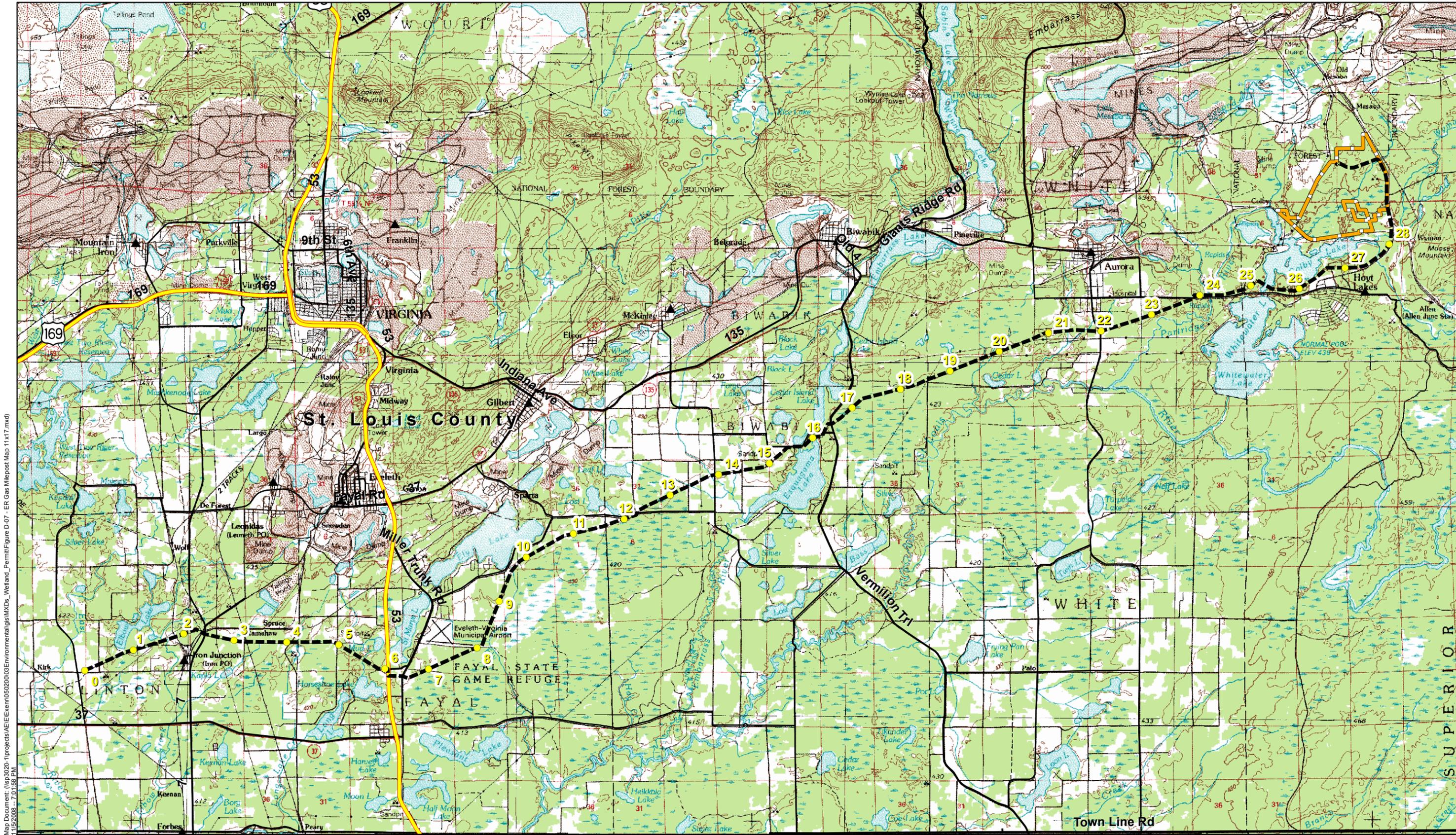
- ▲ Cities
- Counties

- U.S. Highways
- Other Highways

Figure D-6
East Range
HVTL Alignments
Mileposts

St. Louis County - Central Coordinate System

0 10,000 Feet



Map Document: (isp3020-1)projects\AE\Exem0502003\Environmental\GIS\MXDs_Wetland_Permit\Figure D-07 - ER Gas Milepost Map 11x17.mxd
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East Range

November 2008

Legend

- Footprint and Buffer Land
- Proposed Gas
- Gas Mileposts

- Cities
- Other Highways
- Counties

Appendix F

Figure D-7
East Range Gas Alignments Mileposts

St. Louis County - Central Coordinate System

0 9,000 Feet

Source: ESRI, USGS, Mn/DOT, Excelsior Energy, and SEH. © 2008 SEH