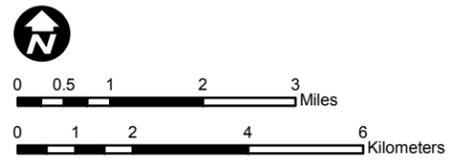
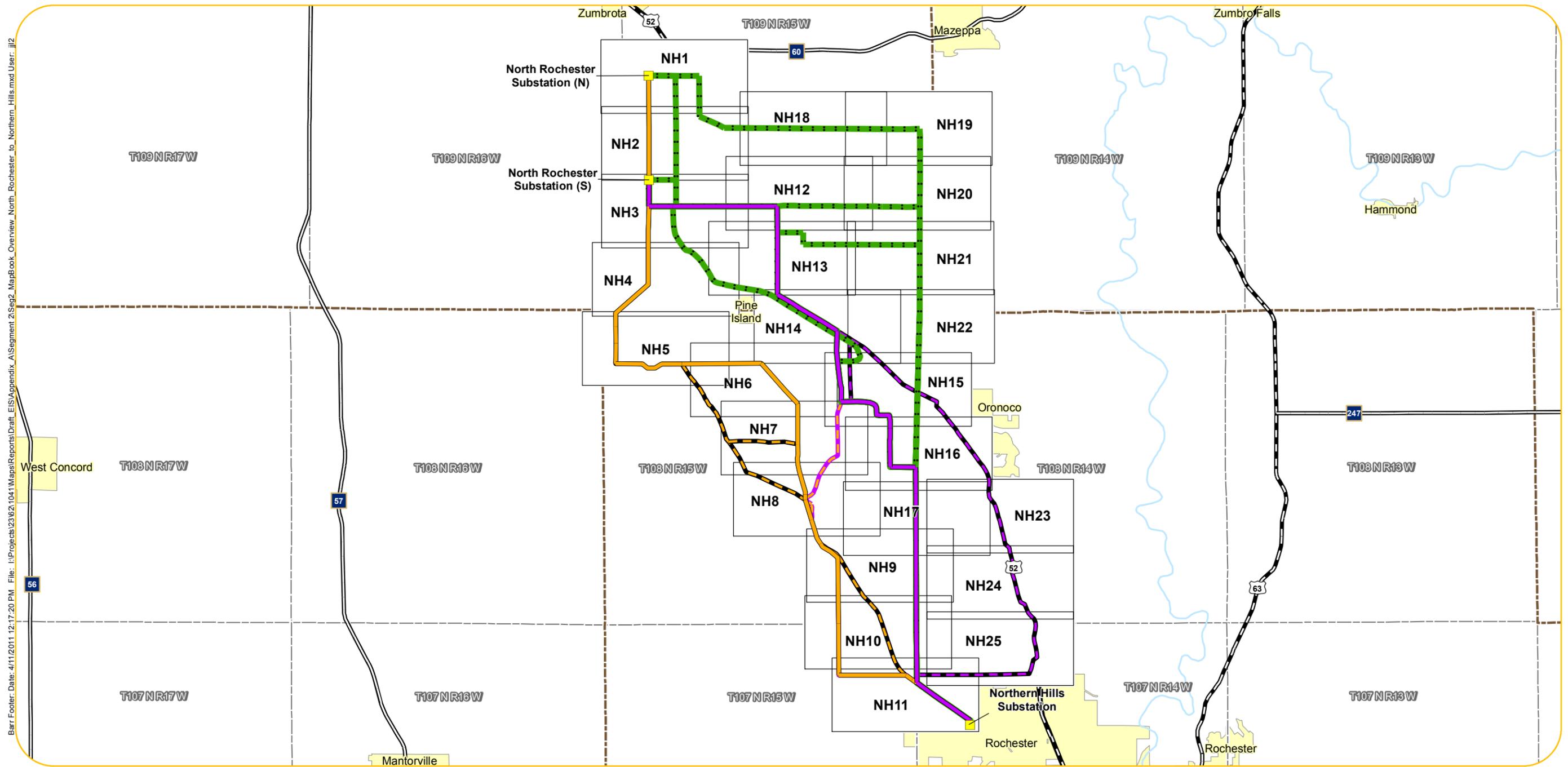
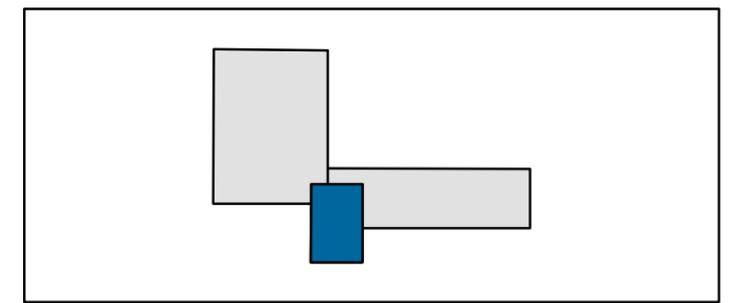


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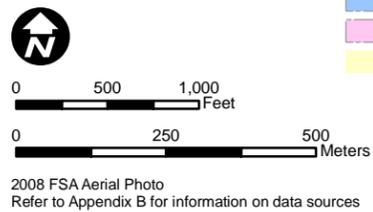
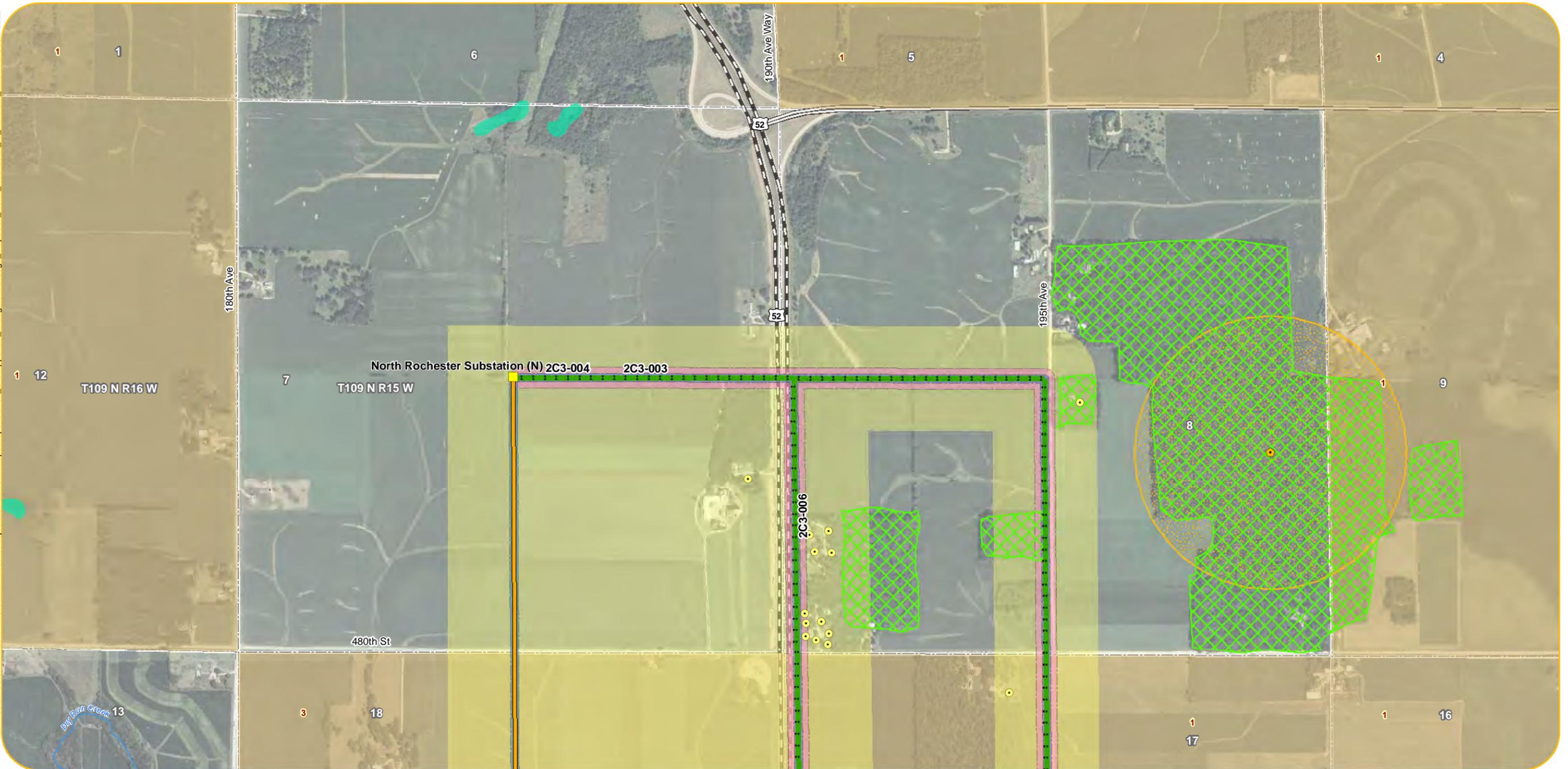


- Project Substations
- NH1 Map Index
- County Boundaries
- Original Alignments**
- P Route
- A Route
- Additional Alternative Routes**
- Variation on P Route
- Variation on A Route
- Variation on Both
- Parallel Alignment

Appendix A - Overview Map
Segment 2,
North Rochester Substation to Northern Hills Substation

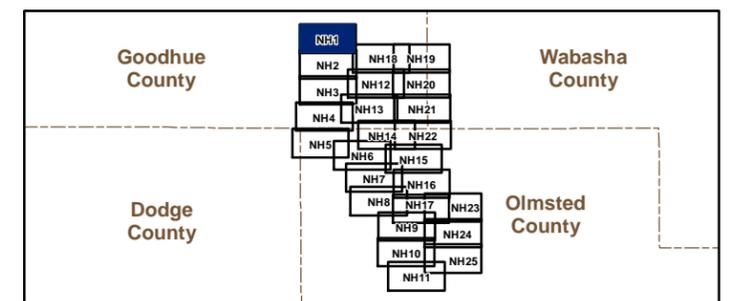


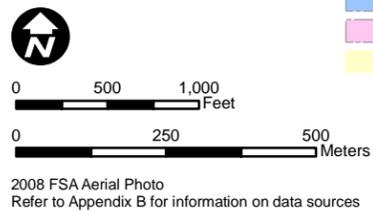
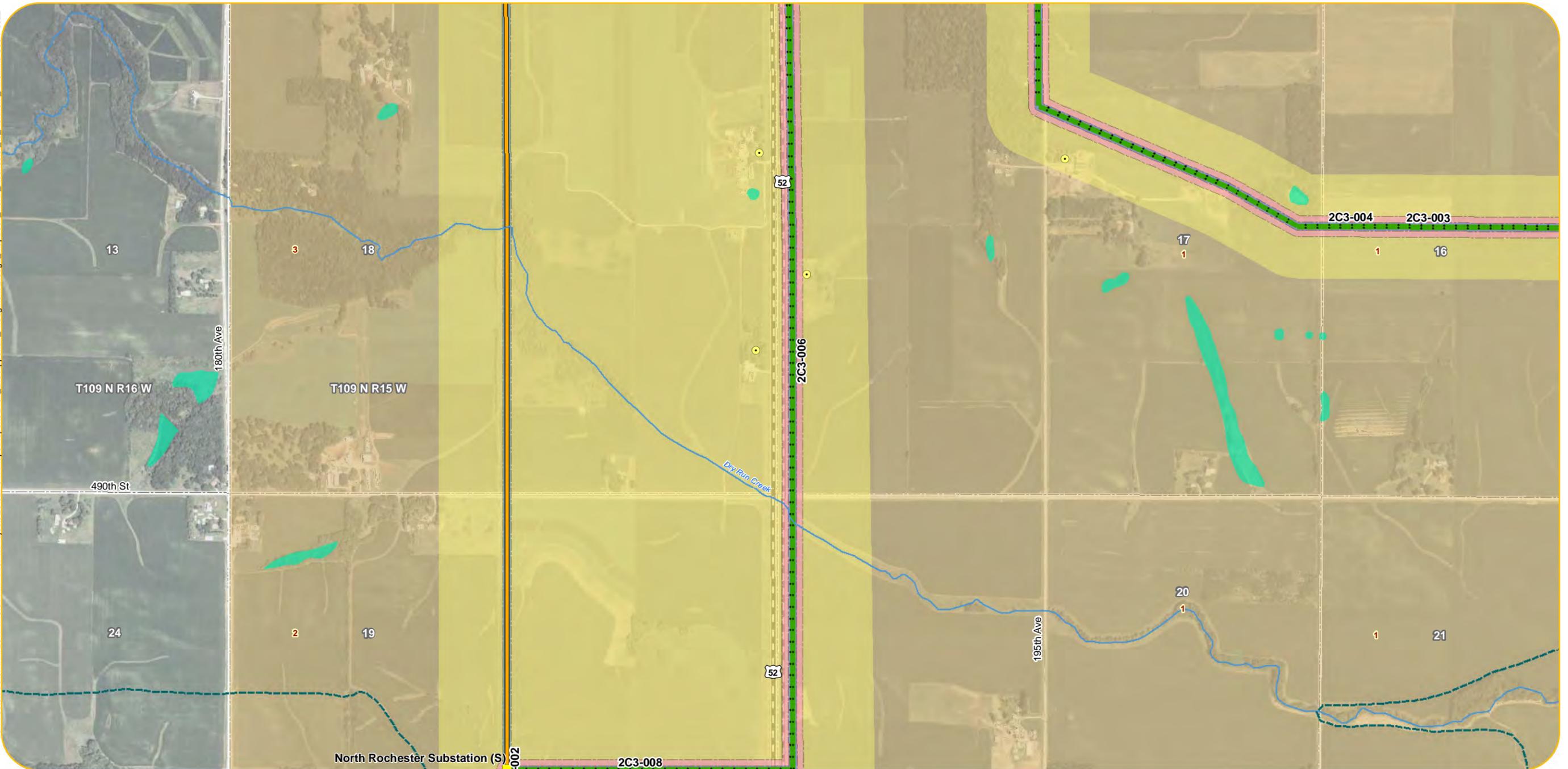
Refer to Appendix B for information on data sources



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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route Additional Alternative Routes Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 4 1 - 5 28 6 - 20 58 21 - 164 |
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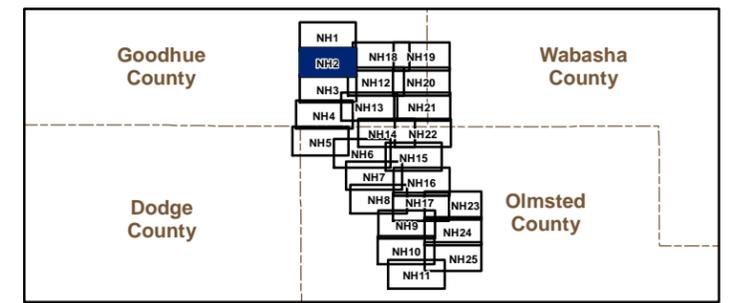
Appendix A - Sheet NH1
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

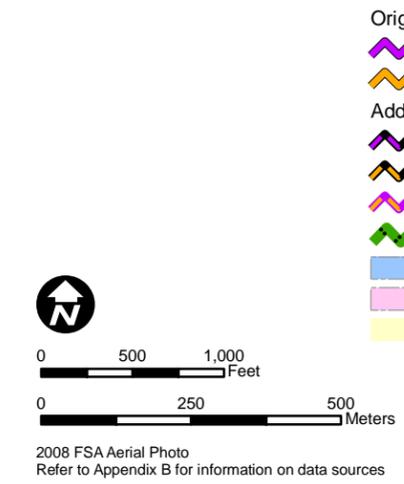
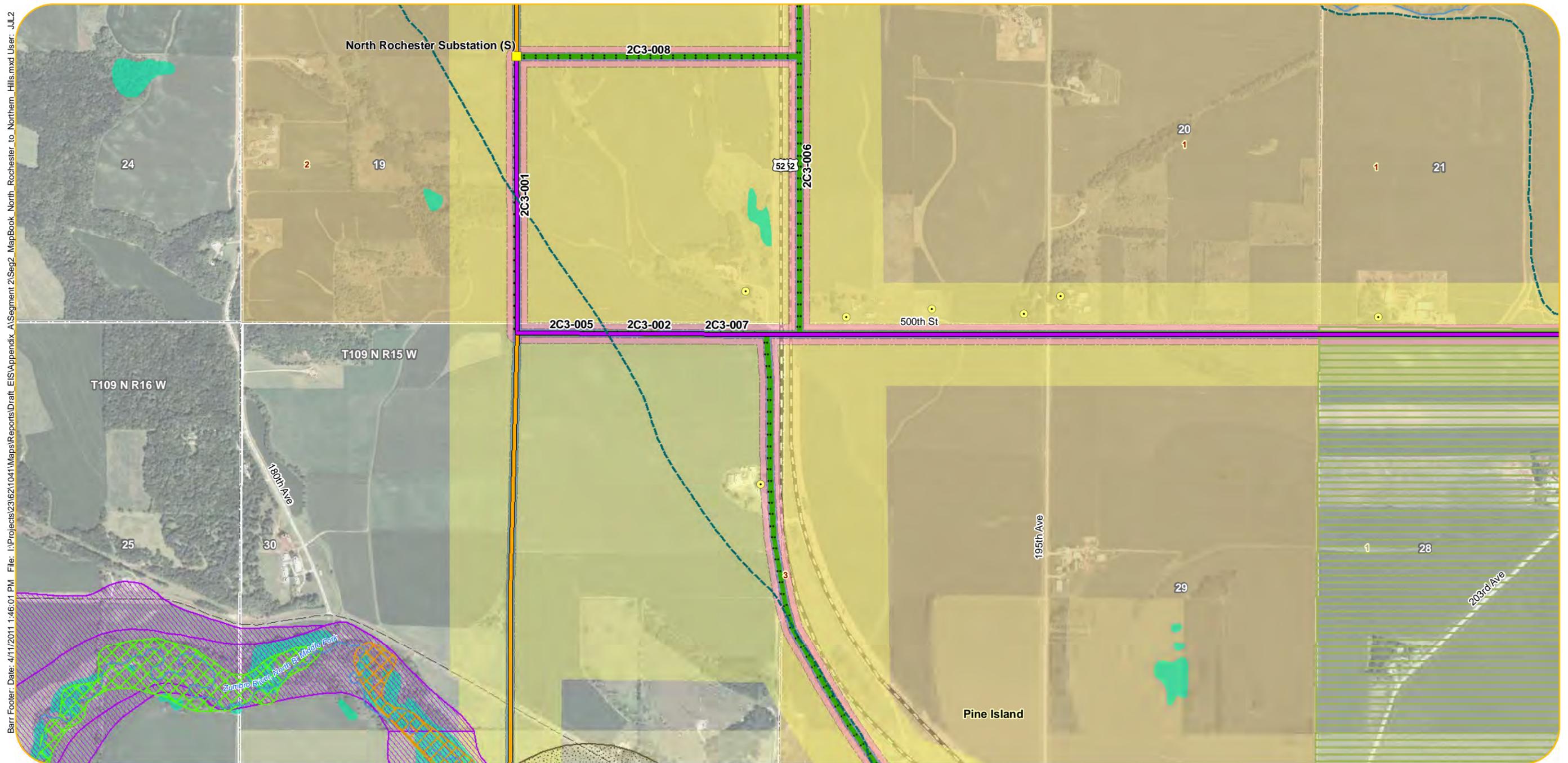




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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Trout Streams | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Q3 FEMA Floodplain | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Recreational | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Scenic | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Wild | 1 - 2 |
| 80-foot ROW | Pinch Points | National Fish Hatchery | Designated Wildlife Lakes | 3 - 4 |
| 200-foot ROW | Airport | National Wildlife Refuge | Impaired Lakes | 5 - 6 |
| 1,000-foot Route Width | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Streams | Historical Sites |
| | MN DNR Natural Heritage | MCBS Biodiversity Significance | Public Water Inventory Basins (includes lakes and wetlands) | 4 1 - 5 |
| | Botanical | Moderate Significance | Public Water Inventory Watercourse | 28 6 - 20 |
| | Ecological | High Significance | NWI Wetlands | 58 21 - 164 |
| | Zoological | Outstanding Significance | Wetland Crossings > 1,000 Feet | |
| | | Wildlife Management Area | | |
| | | Scientific and Natural Area | | |

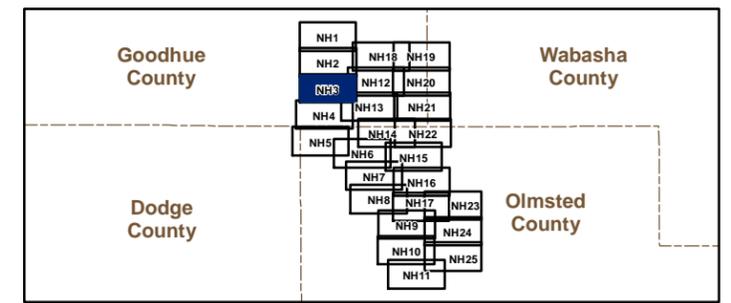
Appendix A - Sheet NH2
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

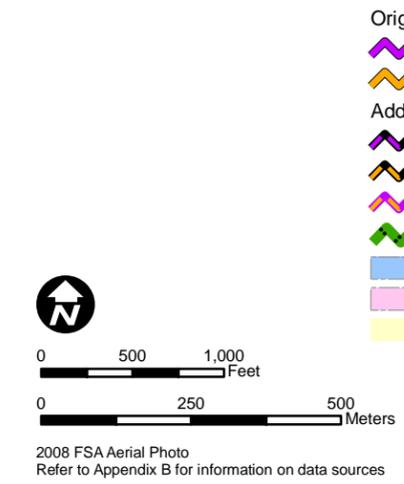
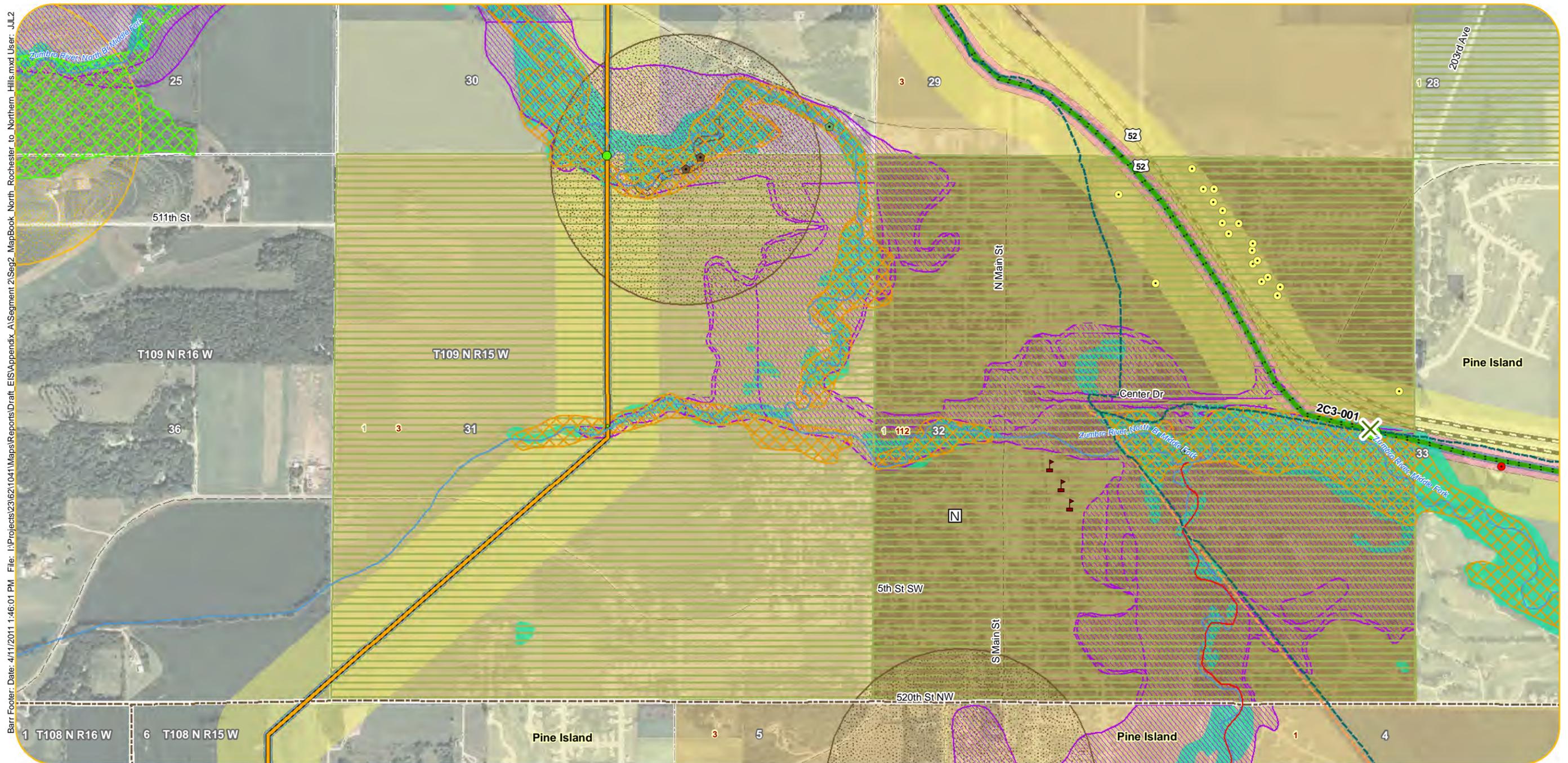




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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route Additional Alternative Routes Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 20 21 - 164 |
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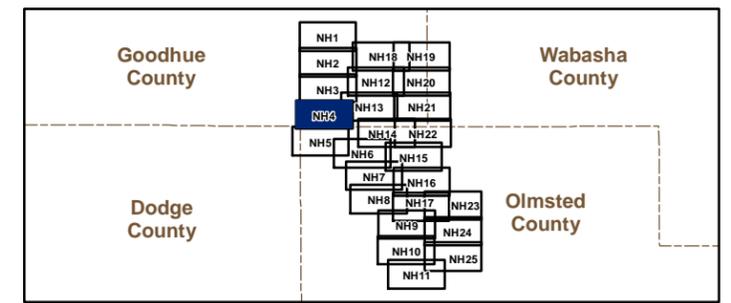
Appendix A - Sheet NH3
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

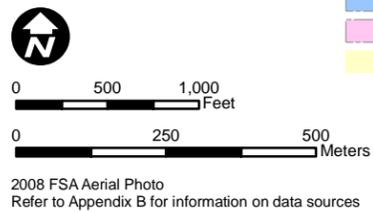
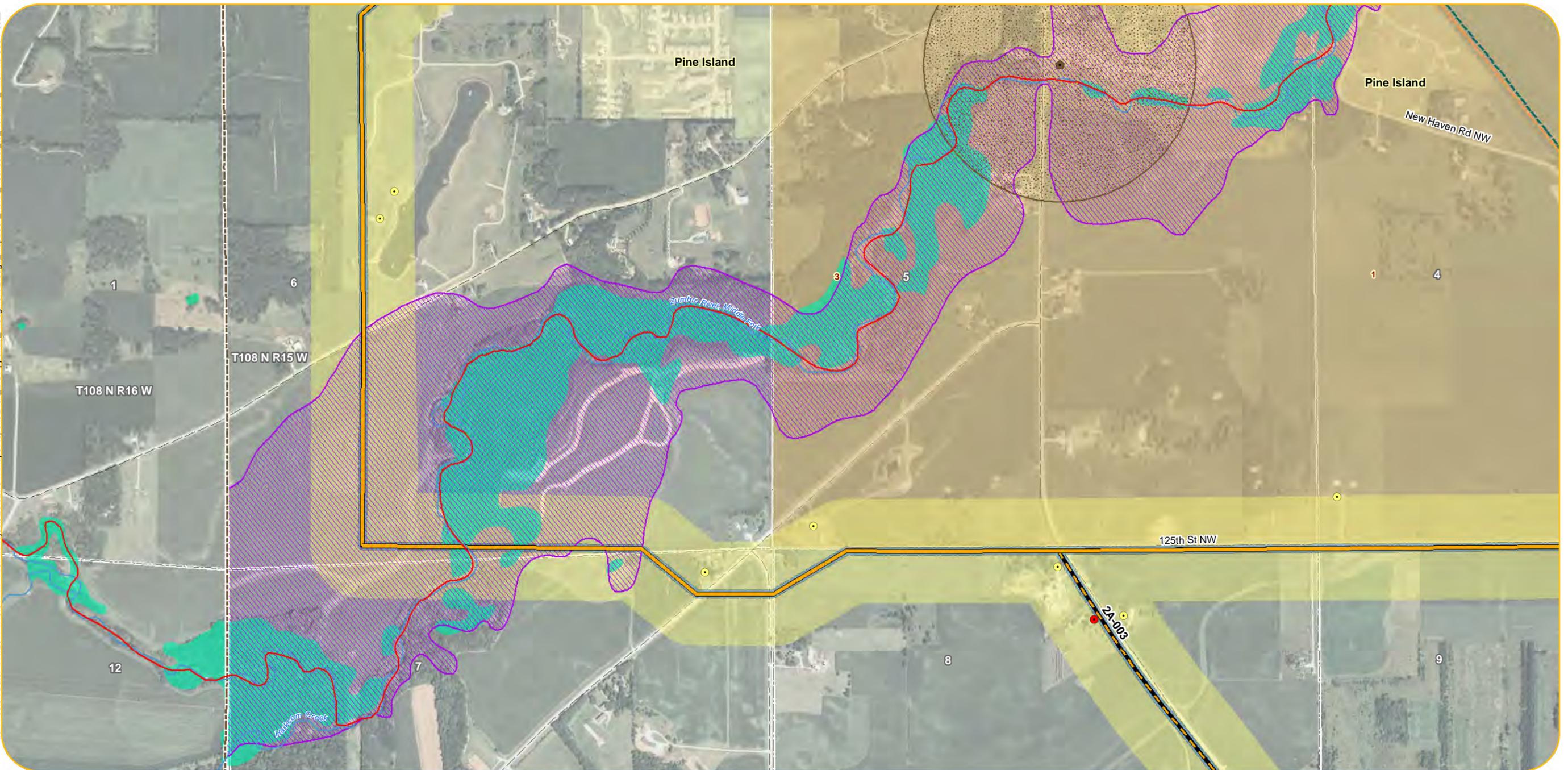




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| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Trout Streams | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Q3 FEMA Floodplain | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Recreational | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Scenic | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Wild | 1 - 2 |
| 80-foot ROW | Pinch Points | National Fish Hatchery | Designated Wildlife Lakes | 3 - 4 |
| 200-foot ROW | Airport | National Wildlife Refuge | Impaired Lakes | 5 - 6 |
| 1,000-foot Route Width | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Streams | Historical Sites |
| | MN DNR Natural Heritage | MCBS Biodiversity Significance | Public Water Inventory Basins (includes lakes and wetlands) | 4 1 - 5 |
| | Botanical | Moderate Significance | Public Water Inventory Watercourse | 28 6 - 20 |
| | Ecological | High Significance | NWI Wetlands | 58 21 - 164 |
| | Zoological | Outstanding Significance | Wetland Crossings > 1,000 Feet | |
| | | Wildlife Management Area | | |
| | | Scientific and Natural Area | | |

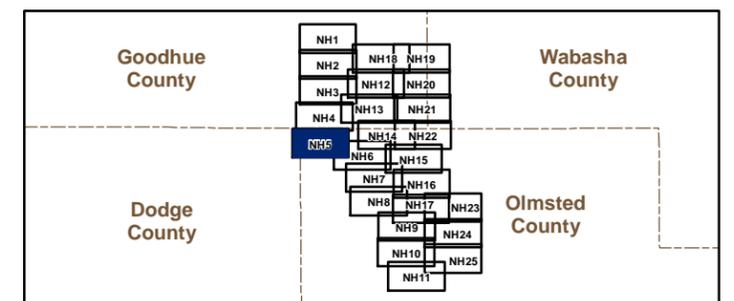
Appendix A - Sheet NH4
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

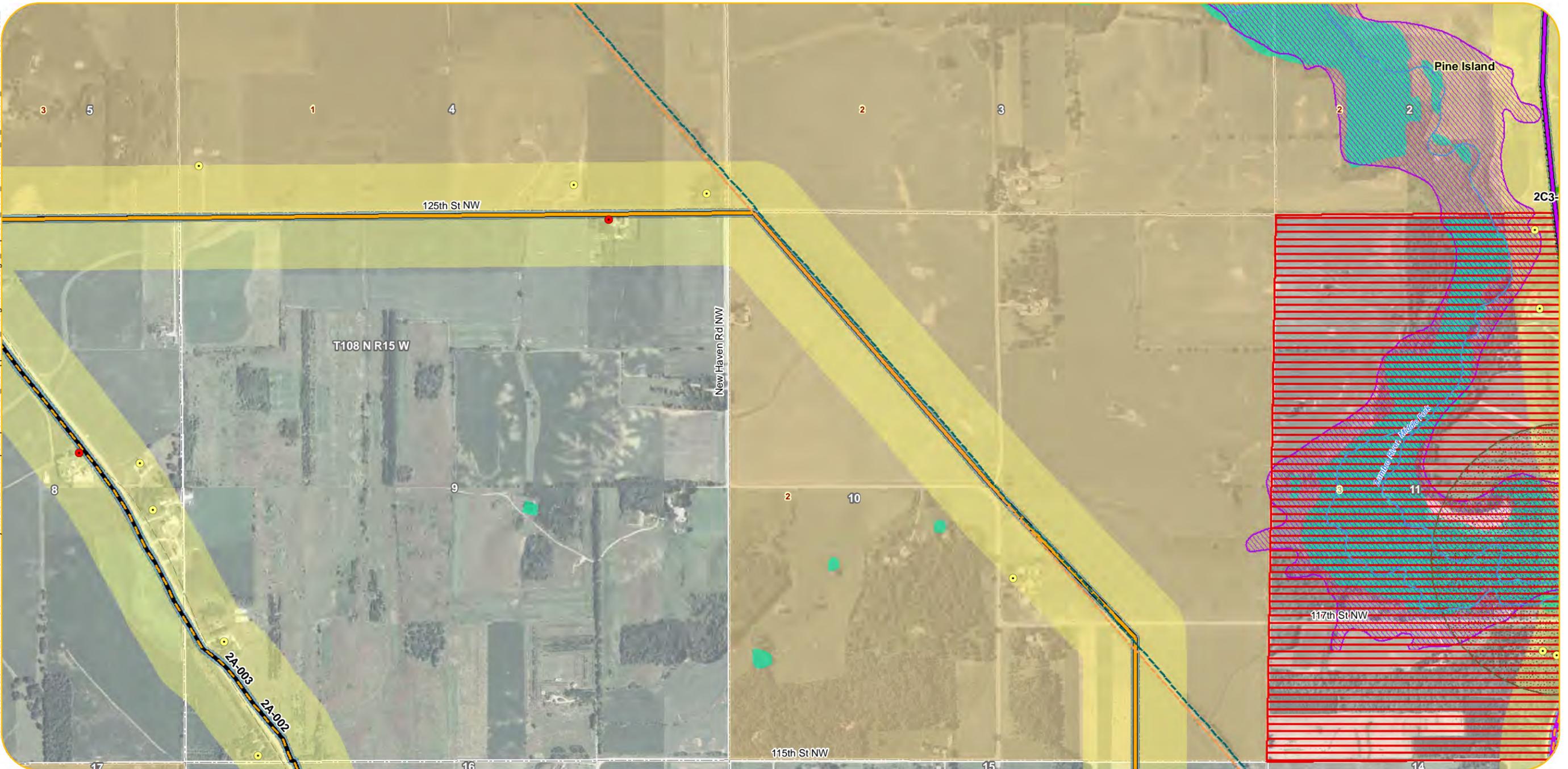




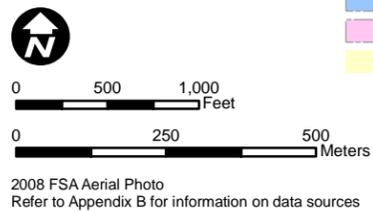
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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route <p>Additional Alternative Routes</p> <ul style="list-style-type: none"> Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <p> Project Substations</p> <ul style="list-style-type: none"> Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives <p> Churches</p> <ul style="list-style-type: none"> Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 20 21 - 164 |
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Appendix A - Sheet NH5
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

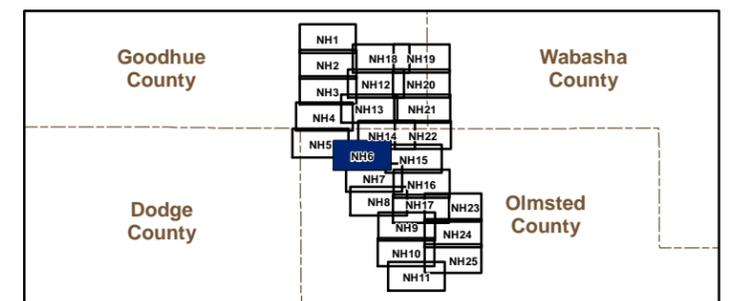


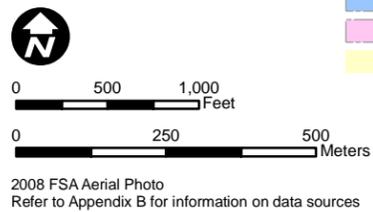
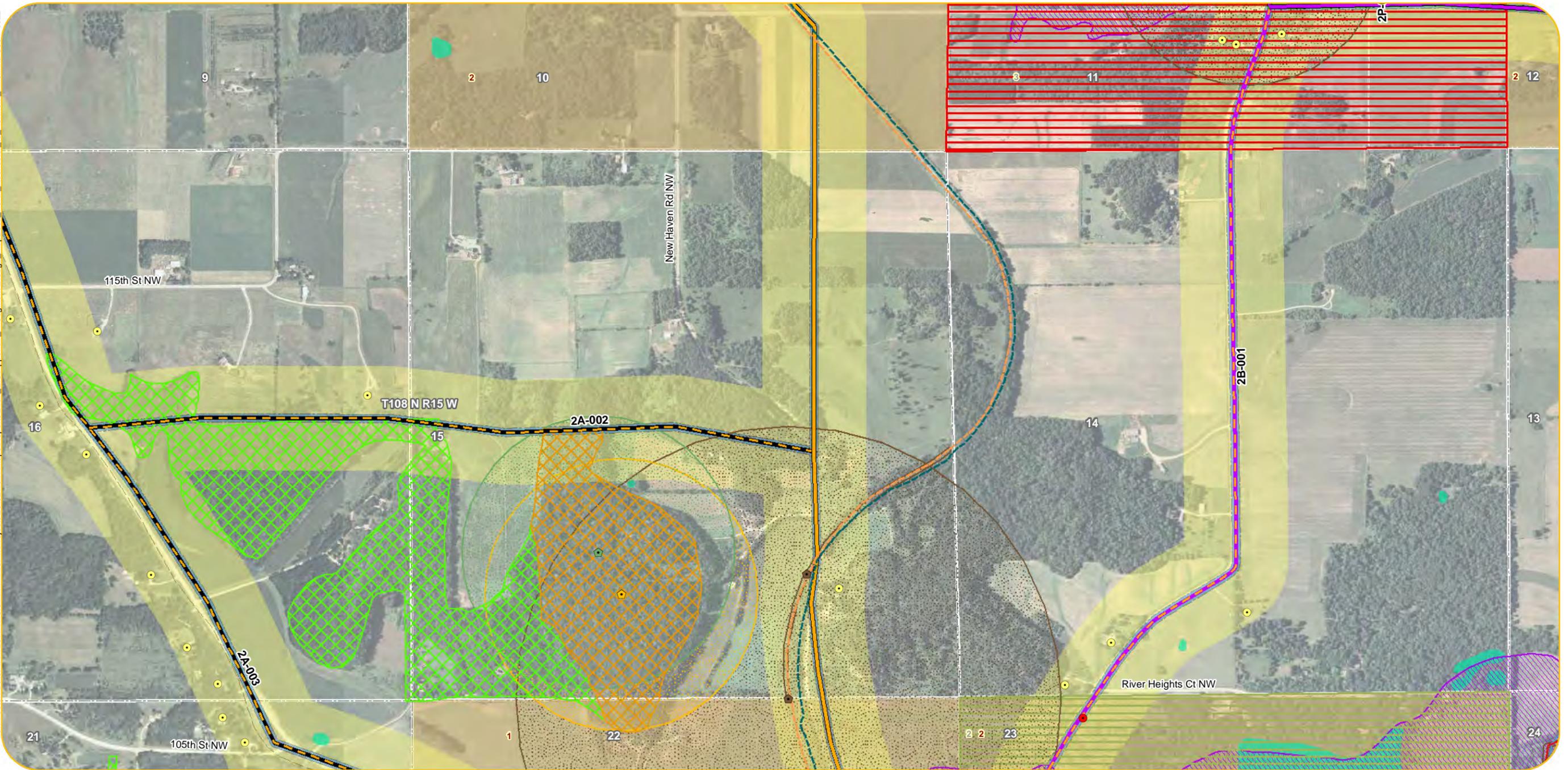


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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route Additional Alternative Routes Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 20 28 58 21 - 164 |
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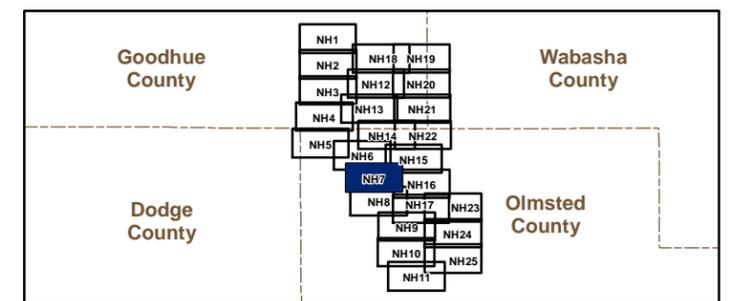
Appendix A - Sheet NH6
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

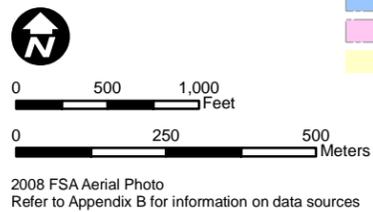
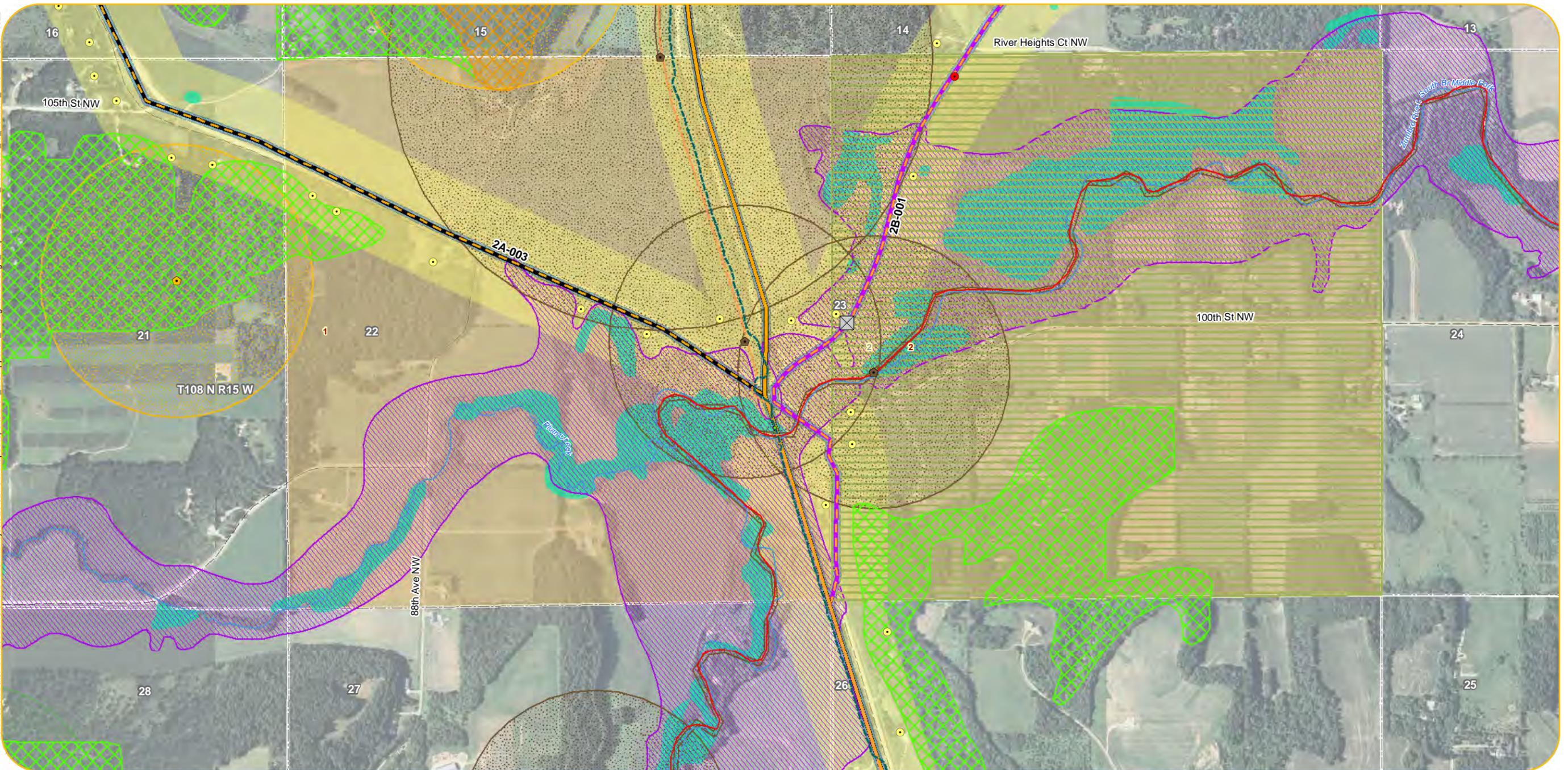




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| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Trout Streams | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Q3 FEMA Floodplain | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Recreational | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Scenic | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Wild | 1 - 2 |
| 80-foot ROW | Pinch Points | National Fish Hatchery | Designated Wildlife Lakes | 3 - 4 |
| 200-foot ROW | Airport | National Wildlife Refuge | Impaired Lakes | 5 - 6 |
| 1,000-foot Route Width | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Streams | Historical Sites |
| | MN DNR Natural Heritage | MCBS Biodiversity Significance | Public Water Inventory Basins (includes lakes and wetlands) | 4 1 - 5 |
| | Botanical | Moderate Significance | Public Water Inventory Watercourse | 28 6 - 20 |
| | Ecological | High Significance | NWI Wetlands | 58 21 - 164 |
| | Zoological | Outstanding Significance | Wetland Crossings > 1,000 Feet | |
| | | Wildlife Management Area | | |
| | | Scientific and Natural Area | | |

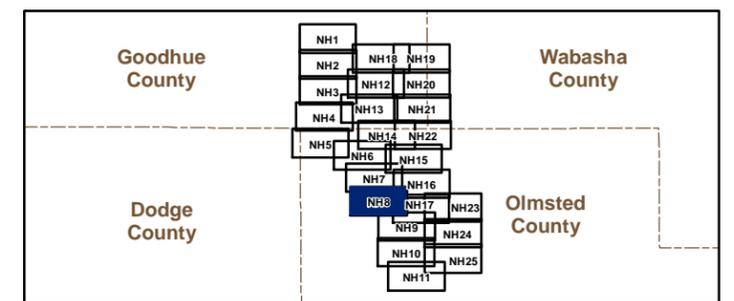
Appendix A - Sheet NH7
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

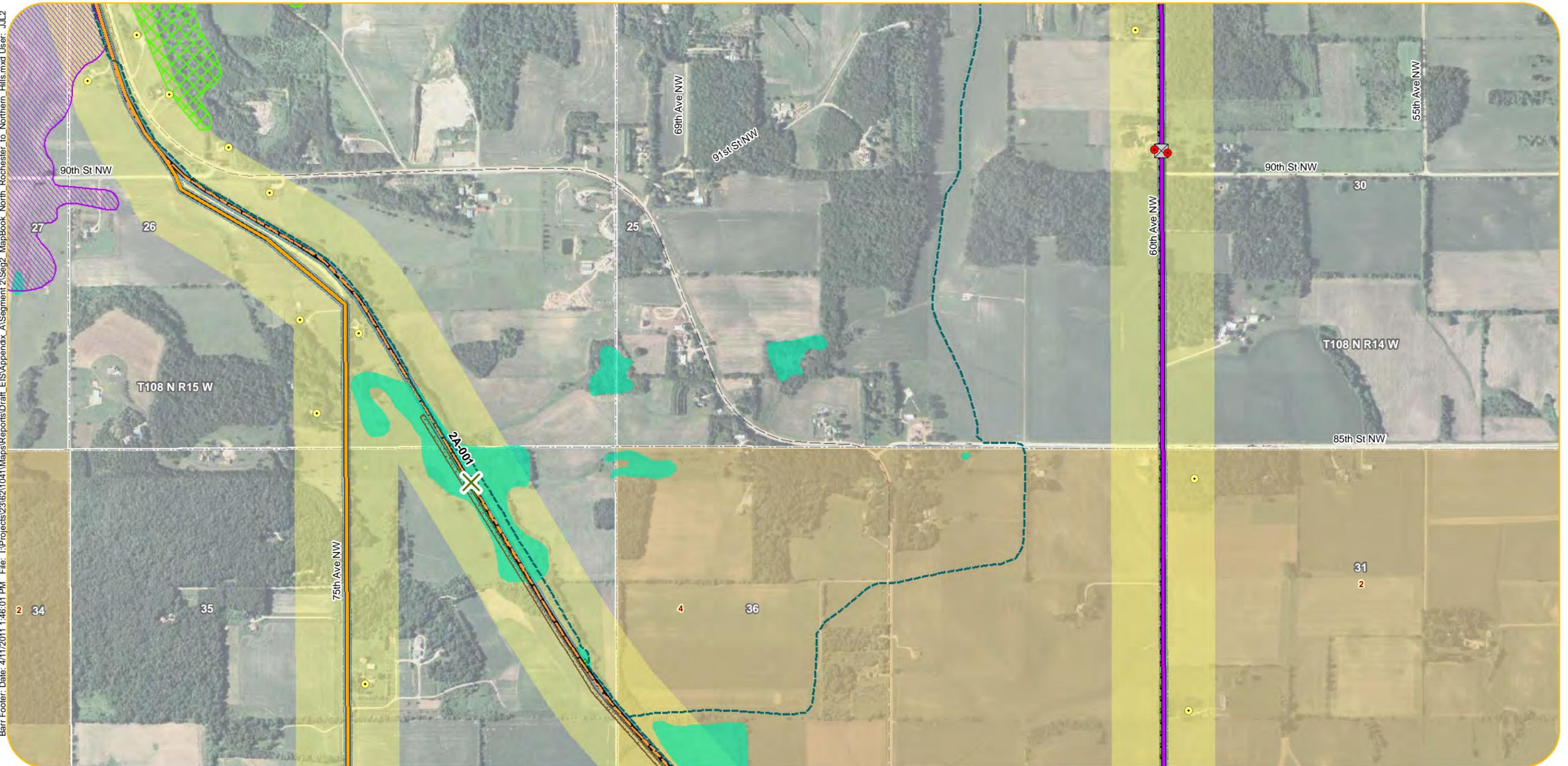




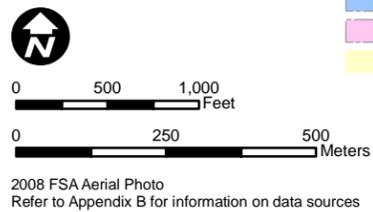
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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route <p>Additional Alternative Routes</p> <ul style="list-style-type: none"> Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 4 1 - 5 28 6 - 20 58 21 - 164 |
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Appendix A - Sheet NH8
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

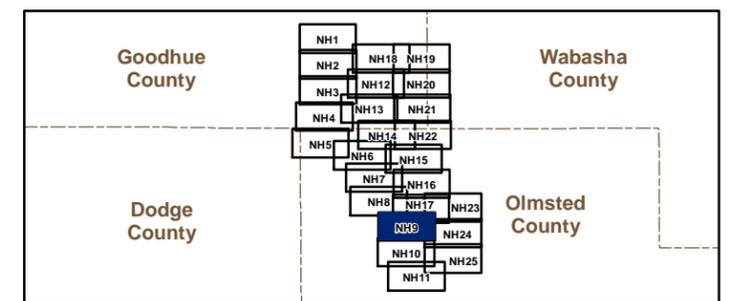


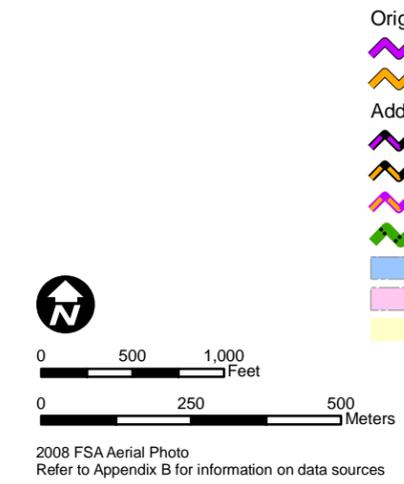
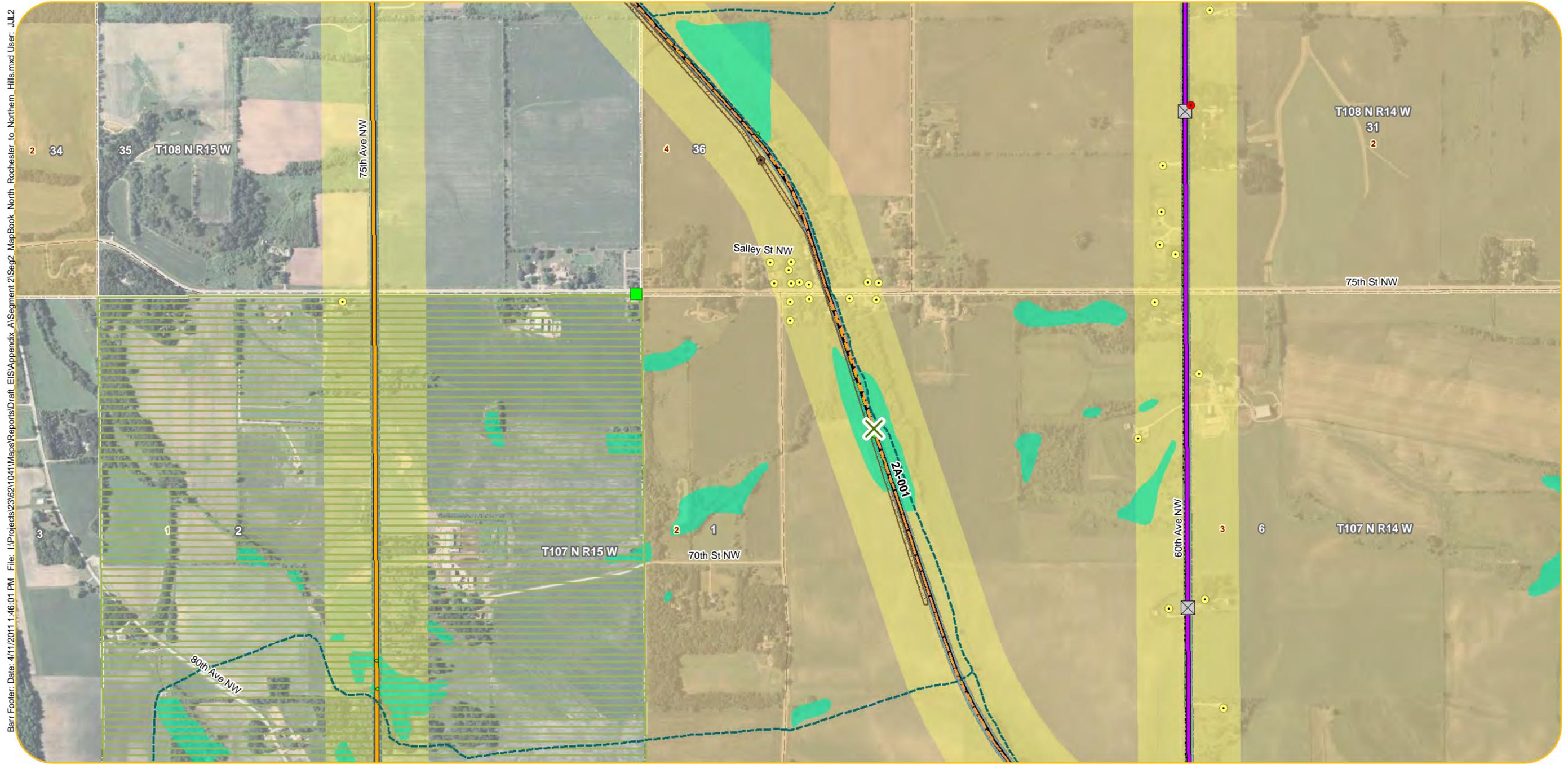


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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route Additional Alternative Routes Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 4 1 - 5 28 6 - 20 58 21 - 164 |
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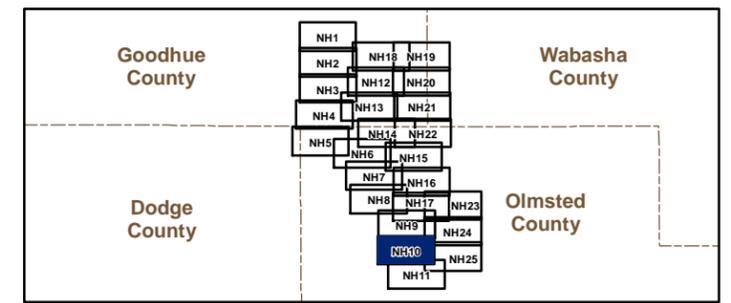
Appendix A - Sheet NH9
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

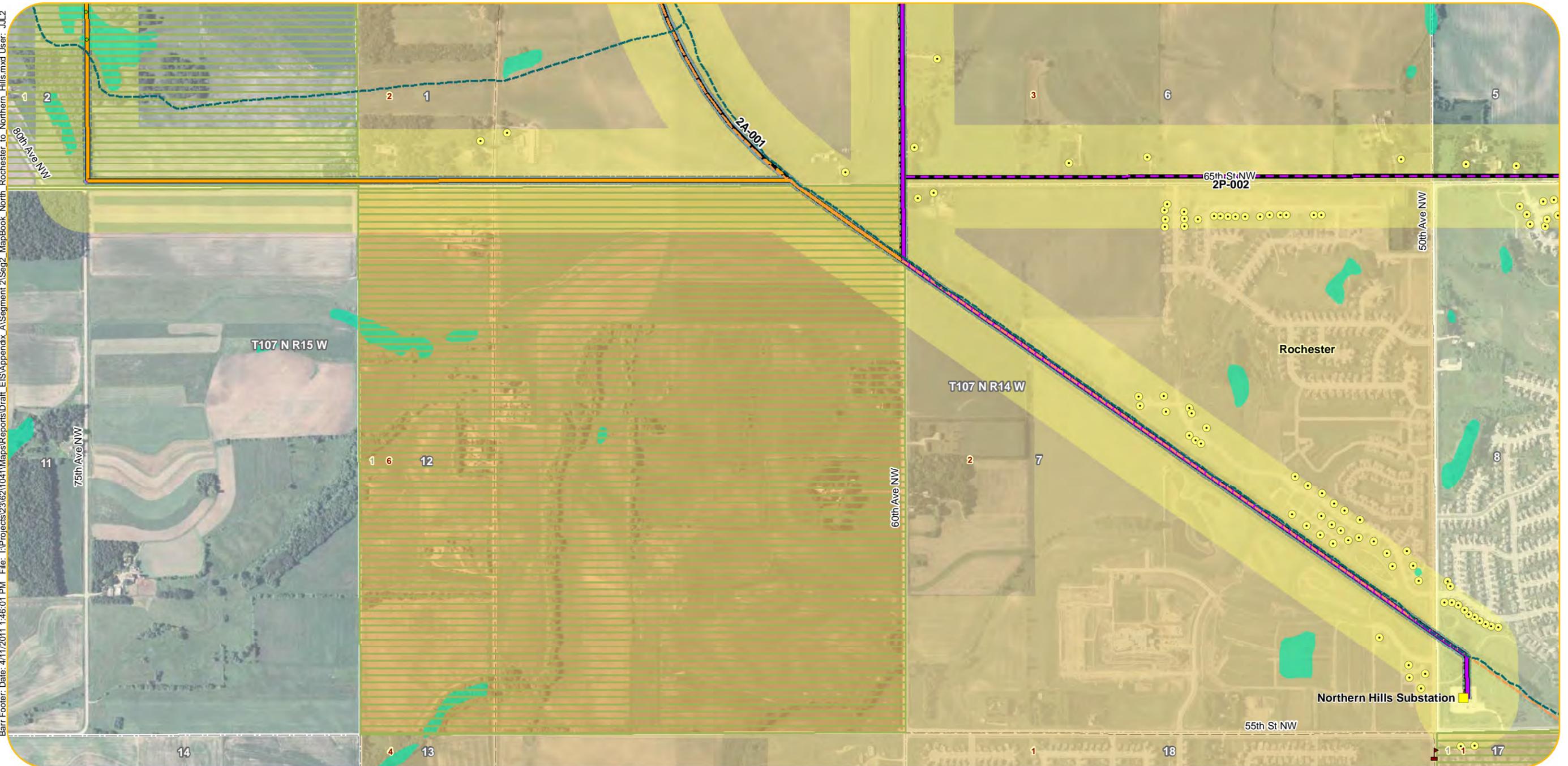




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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route <p>Additional Alternative Routes</p> <ul style="list-style-type: none"> Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 20 21 - 164 |
|--|---|---|---|---|

Appendix A - Sheet NH10
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation





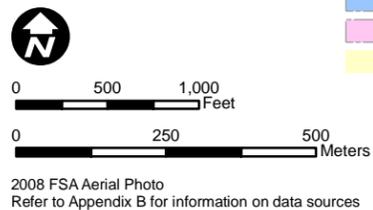
- Original Alignments**
- P Route
 - A Route
- Additional Alternative Routes**
- Variation on P Route
 - Variation on A Route
 - Variation on Both
 - Parallel Alignment
 - 80-foot ROW
 - 200-foot ROW
 - 1,000-foot Route Width

- Project Substations
- Residences within 75 Feet of Alternatives
- Residences within 500 Feet of Alternatives
- Churches
- Cemeteries
- Schools
- Nursing Homes
- Hospitals
- Pinch Points
- Airport
- State Designated Railroad Prairie
- MN DNR Natural Heritage**
- Botanical
- Ecological
- Zoological

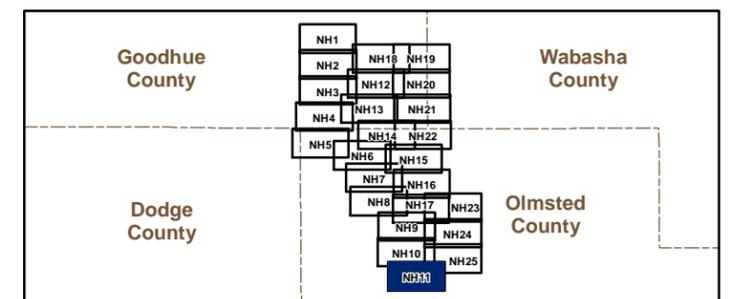
- Botanical
- Ecological
- Zoological
- Snowmobile Trail
- State Existing Trail
- Scenic_Byway
- Fish Technology Center
- Fisheries Research Station
- National Fish Hatchery
- National Wildlife Refuge
- Waterfowl Production Area
- MCBS Biodiversity Significance
- Moderate Significance
- High Significance
- Outstanding Significance
- Wildlife Management Area
- Scientific and Natural Area

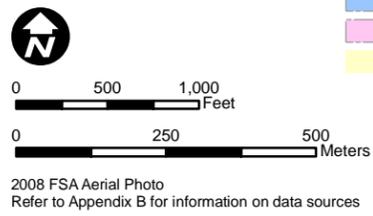
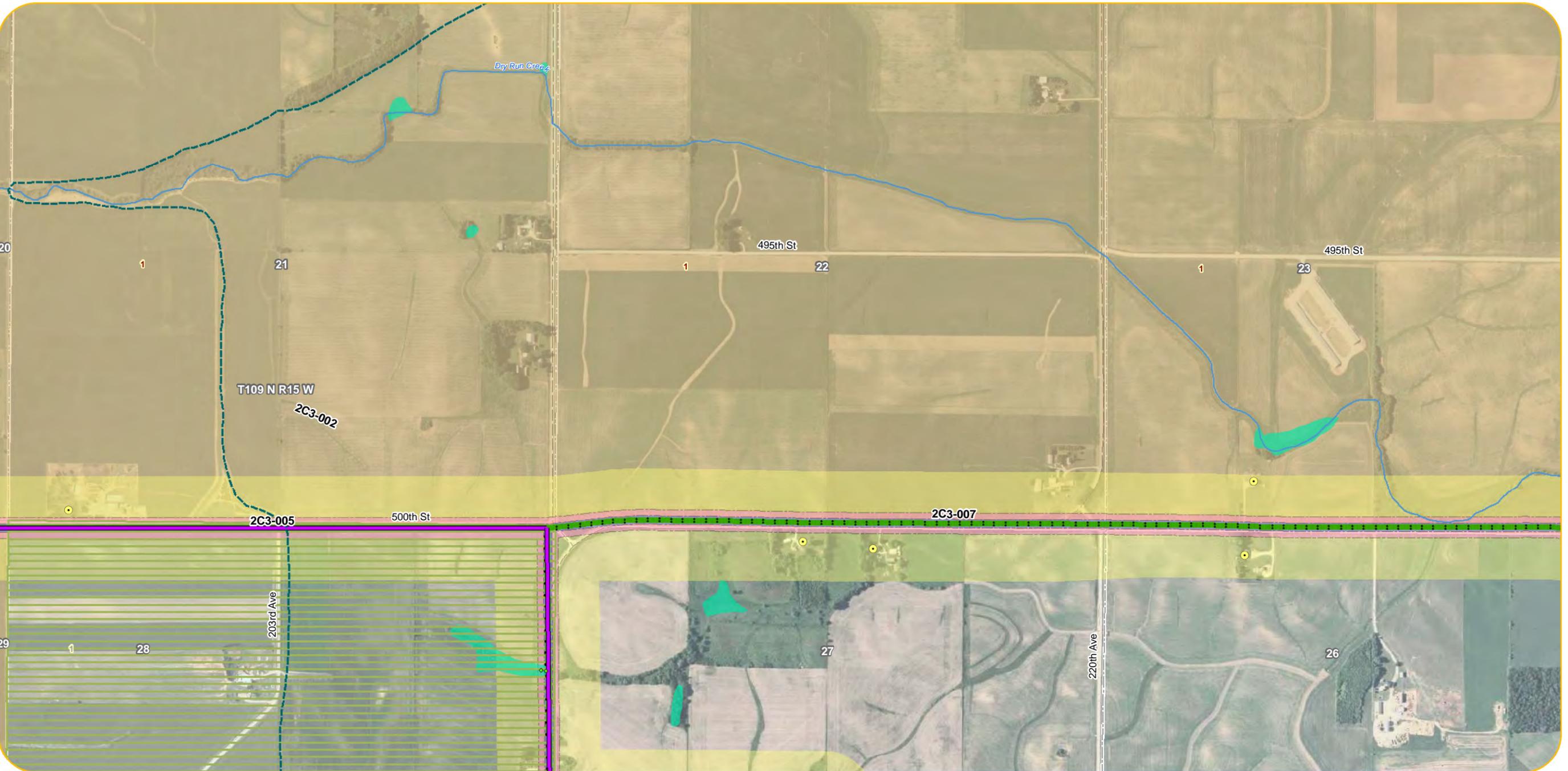
- State Park
- State Forest
- Tribal Lands
- Trout Streams
- Q3 FEMA Floodplain
- Recreational
- Scenic
- Wild
- Designated Wildlife Lakes
- Impaired Lakes
- Impaired Streams
- Public Water Inventory Basins (includes lakes and wetlands)
- Public Water Inventory Watercourse
- NWI Wetlands
- Wetland Crossings > 1,000 Feet

- Wetland Area (acres) within 150-foot ROW**
- 0.0 - 0.5
 - 0.6 - 1.0
 - 1.1 - 2.0
 - 2.1 - 3.0
 - 3.1 - 6.1
- Archaeological Sites**
- 1 - 2
 - 3 - 4
 - 5 - 6
- Historical Sites**
- 1 - 5
 - 6 - 20
 - 21 - 164



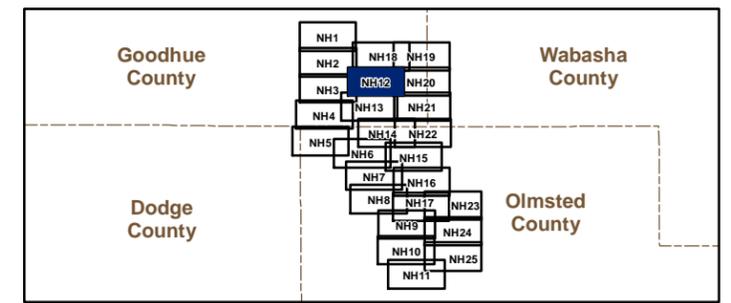
Appendix A - Sheet NH11
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

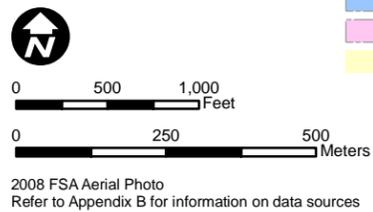
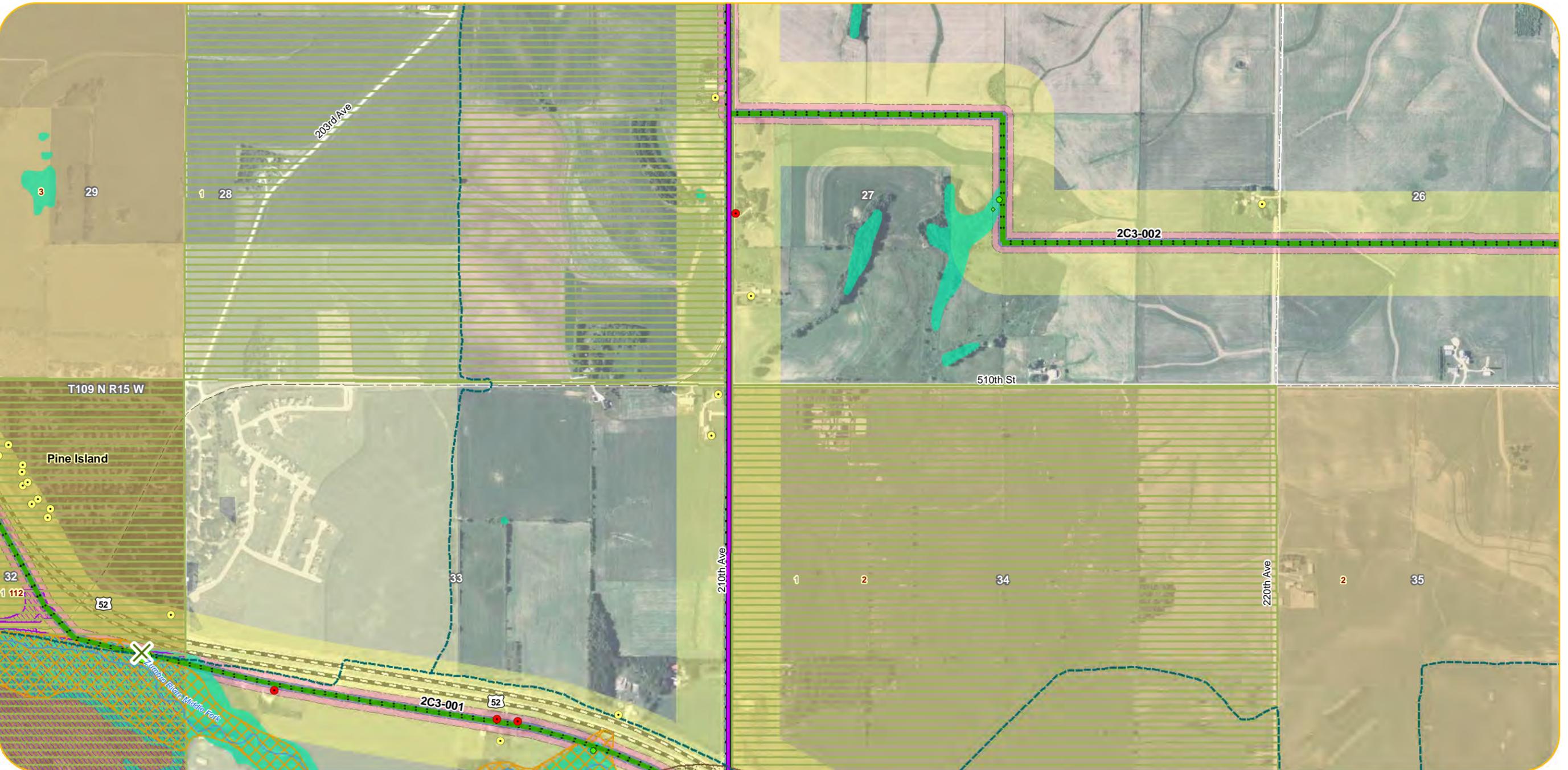




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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route <p>Additional Alternative Routes</p> <ul style="list-style-type: none"> Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 4 1 - 5 28 6 - 20 58 21 - 164 |
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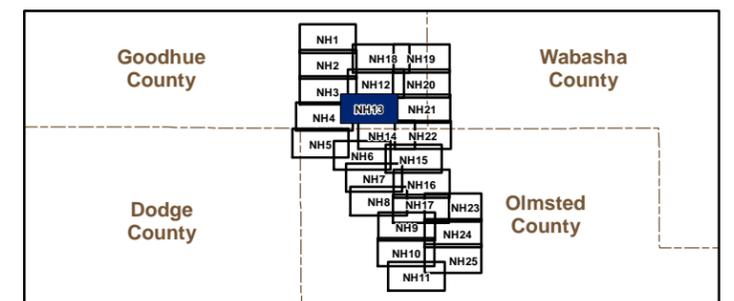
Appendix A - Sheet NH12
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



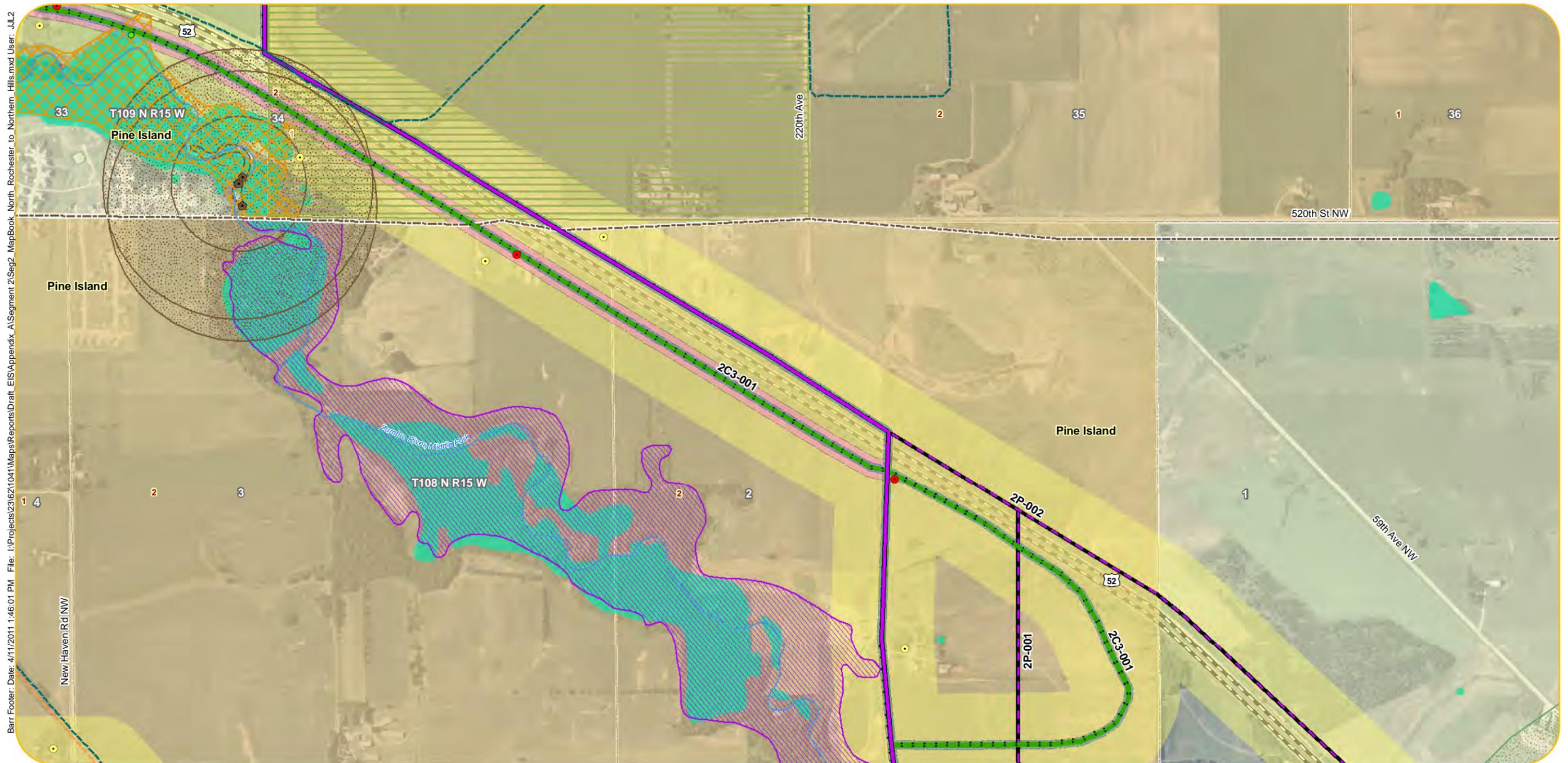


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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route <p>Additional Alternative Routes</p> <ul style="list-style-type: none"> Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 20 28 58 21 - 164 |
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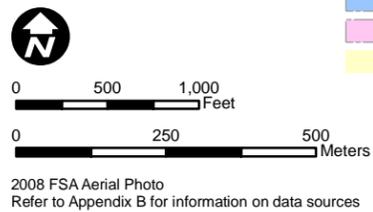
Appendix A - Sheet NH13
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



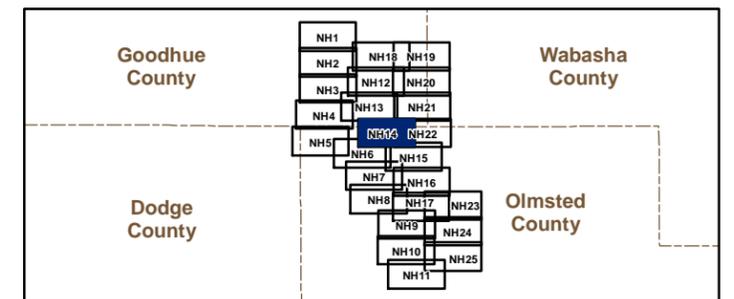
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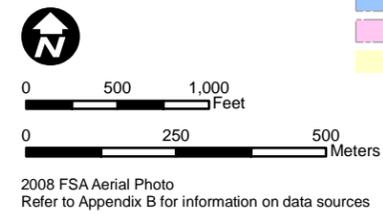
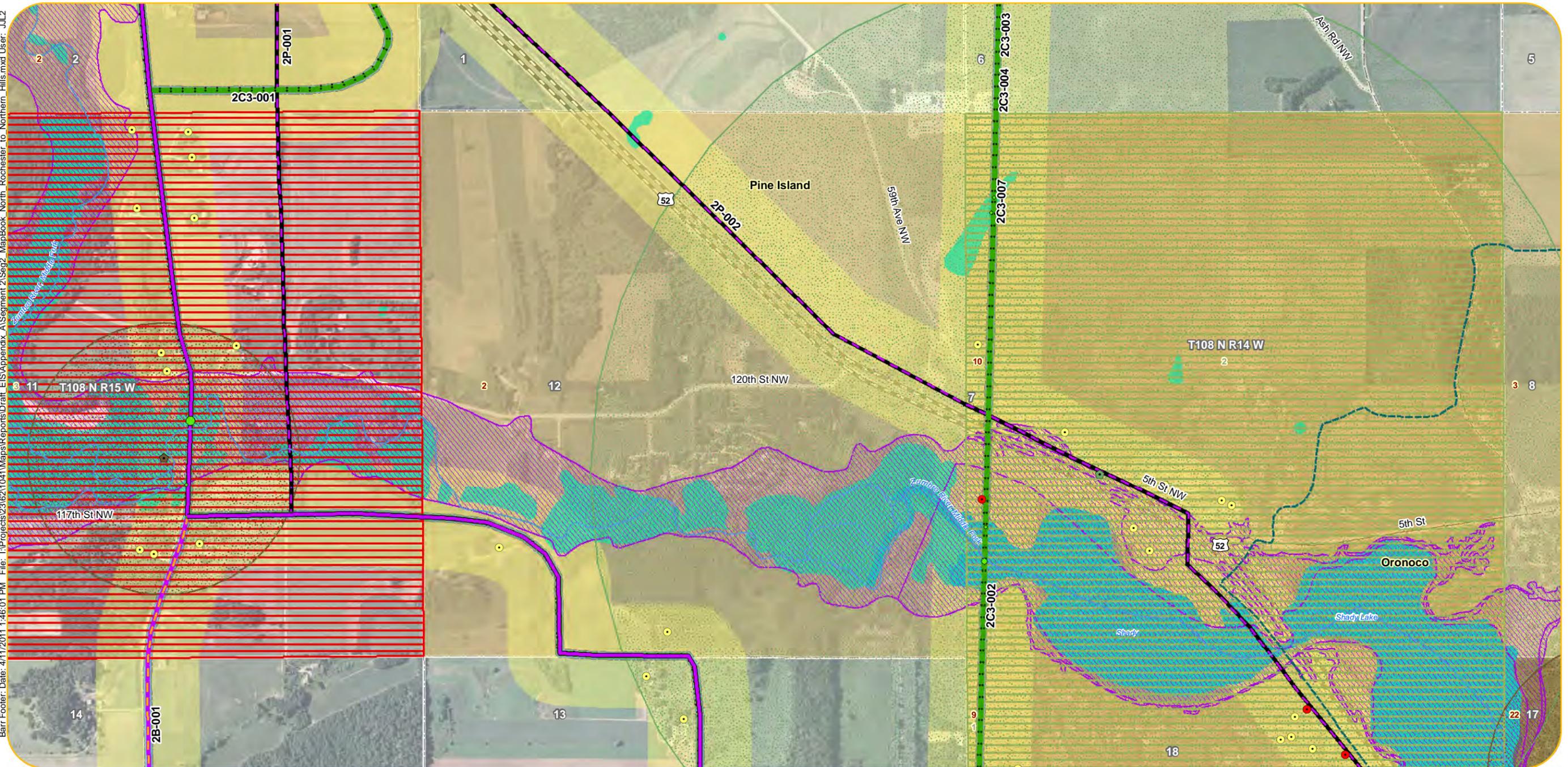


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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route <p>Additional Alternative Routes</p> <ul style="list-style-type: none"> Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 20 21 - 164 |
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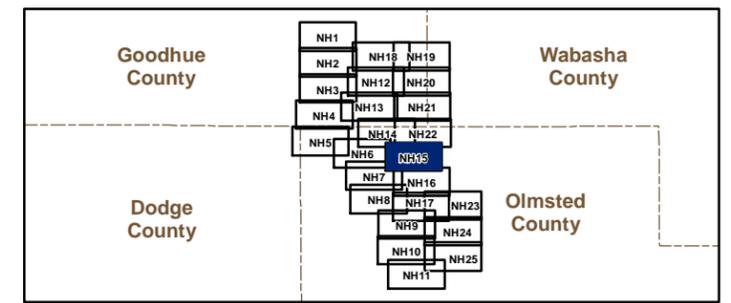
Appendix A - Sheet NH14
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

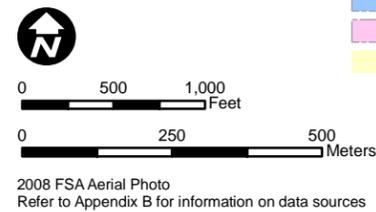
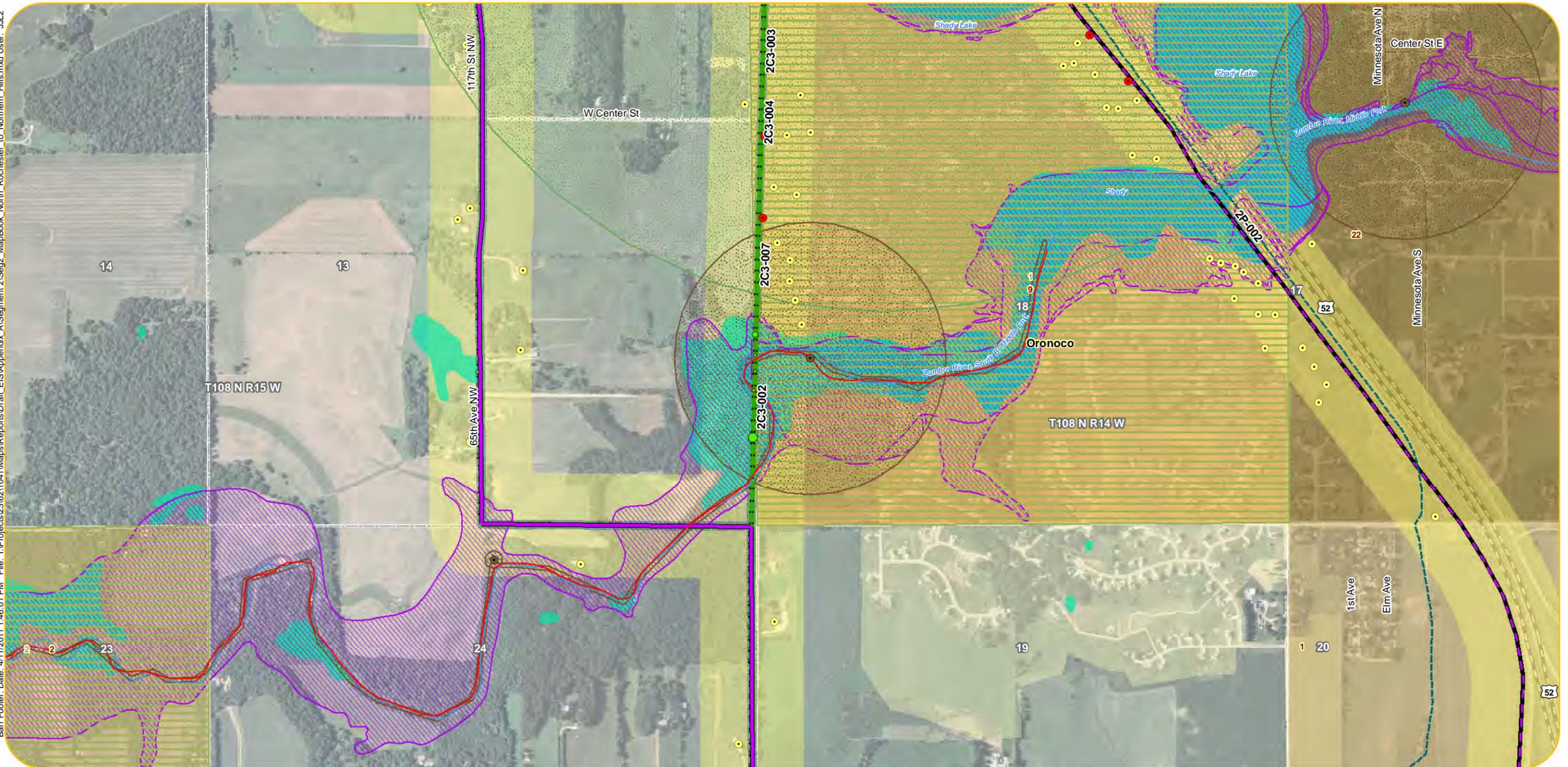




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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route Additional Alternative Routes Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 20 21 - 164 |
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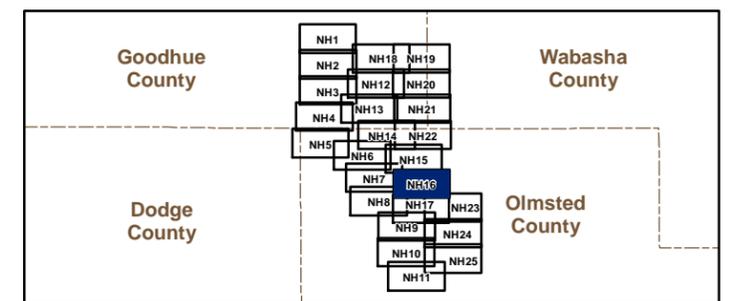
Appendix A - Sheet NH15
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

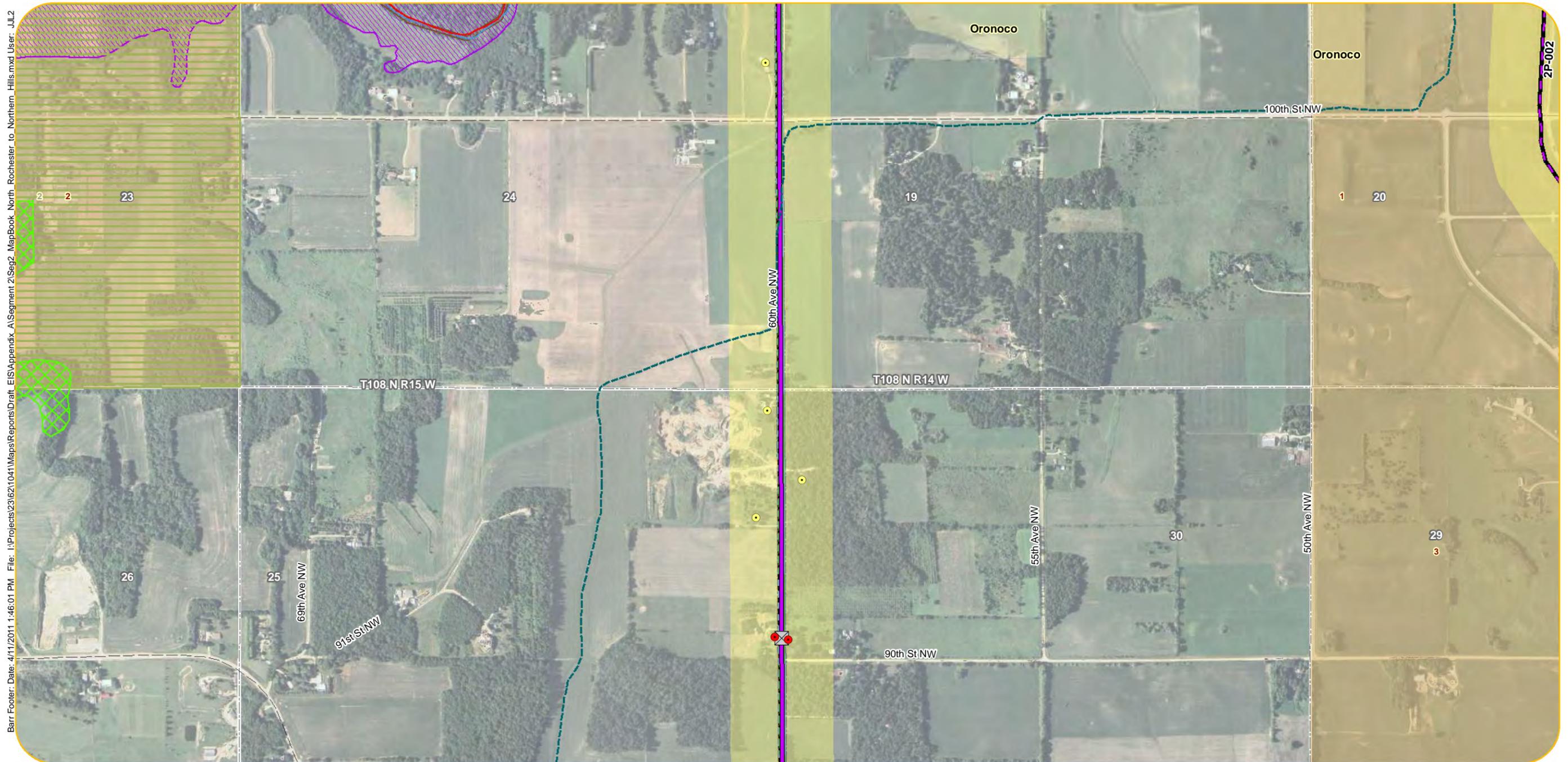




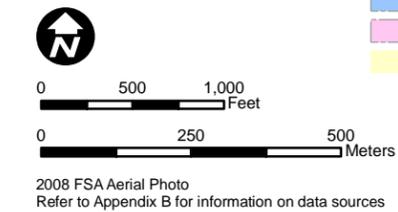
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| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Trout Streams | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Q3 FEMA Floodplain | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Recreational | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Scenic | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Wild | 1 - 2 |
| 80-foot ROW | Pinch Points | National Fish Hatchery | Designated Wildlife Lakes | 3 - 4 |
| 200-foot ROW | Airport | National Wildlife Refuge | Impaired Lakes | 5 - 6 |
| 1,000-foot Route Width | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Streams | Historical Sites |
| | MN DNR Natural Heritage | MCBS Biodiversity Significance | Public Water Inventory Basins (includes lakes and wetlands) | 1 - 5 |
| | Botanical | Moderate Significance | Public Water Inventory Watercourse | 6 - 20 |
| | Ecological | High Significance | NWI Wetlands | 21 - 164 |
| | Zoological | Outstanding Significance | Wetland Crossings > 1,000 Feet | |
| | | Wildlife Management Area | | |
| | | Scientific and Natural Area | | |

Appendix A - Sheet NH16
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation



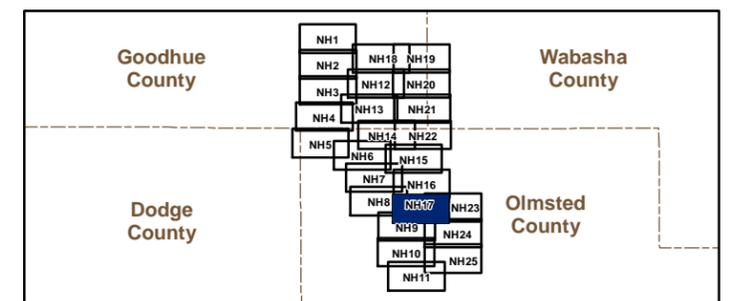


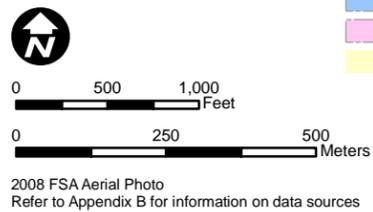
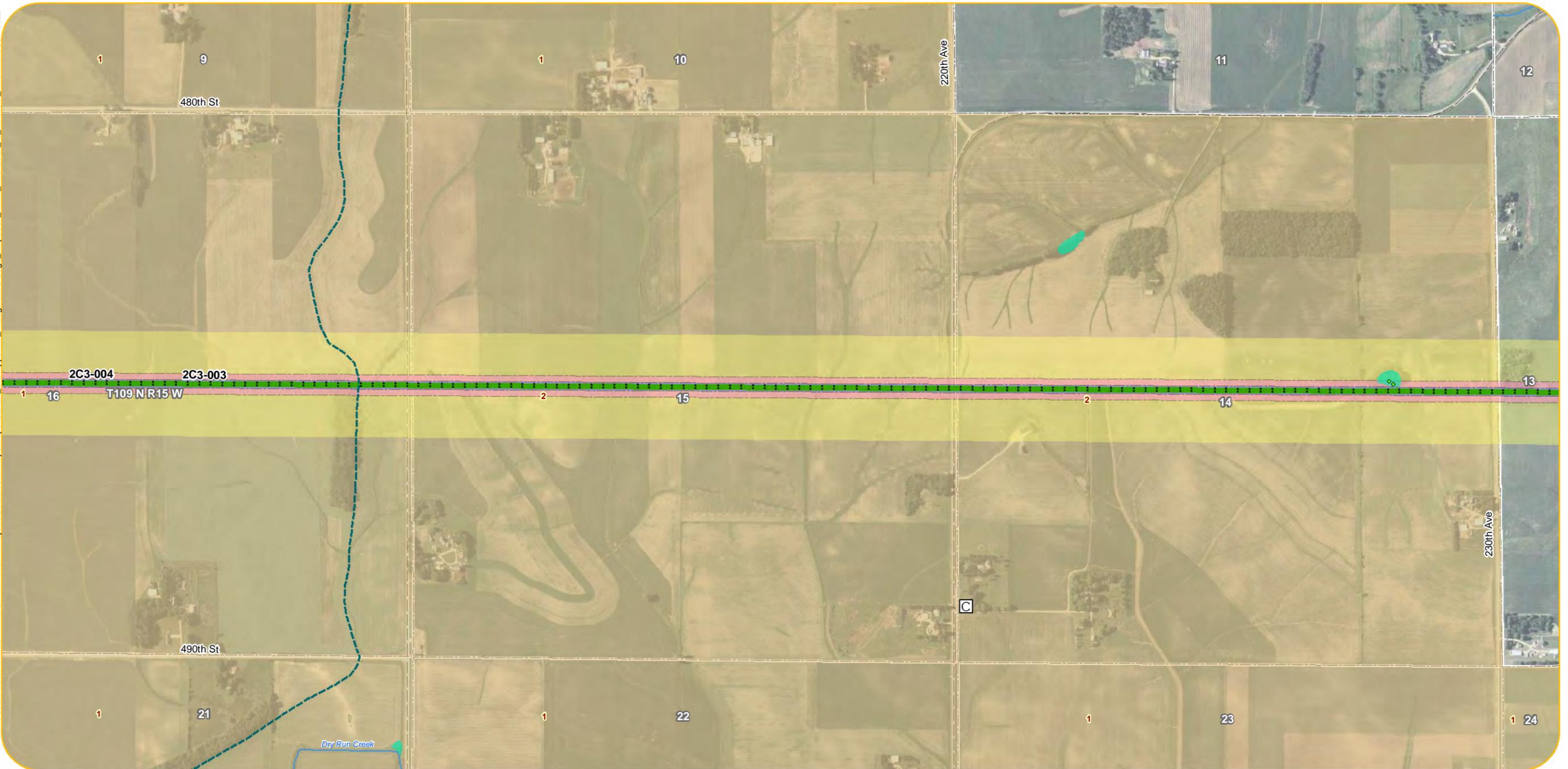
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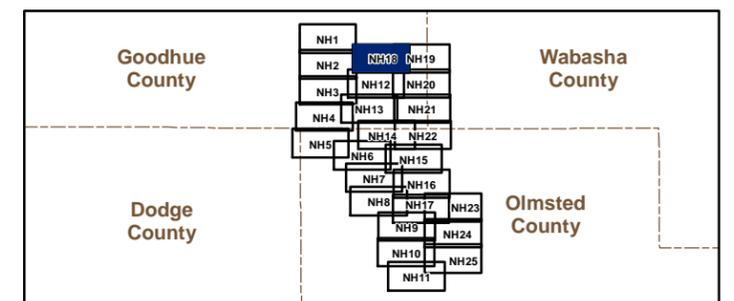
Appendix A - Sheet NH17
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

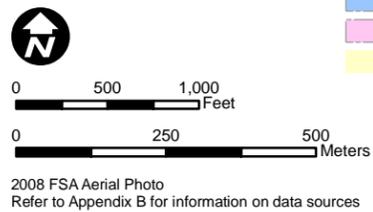
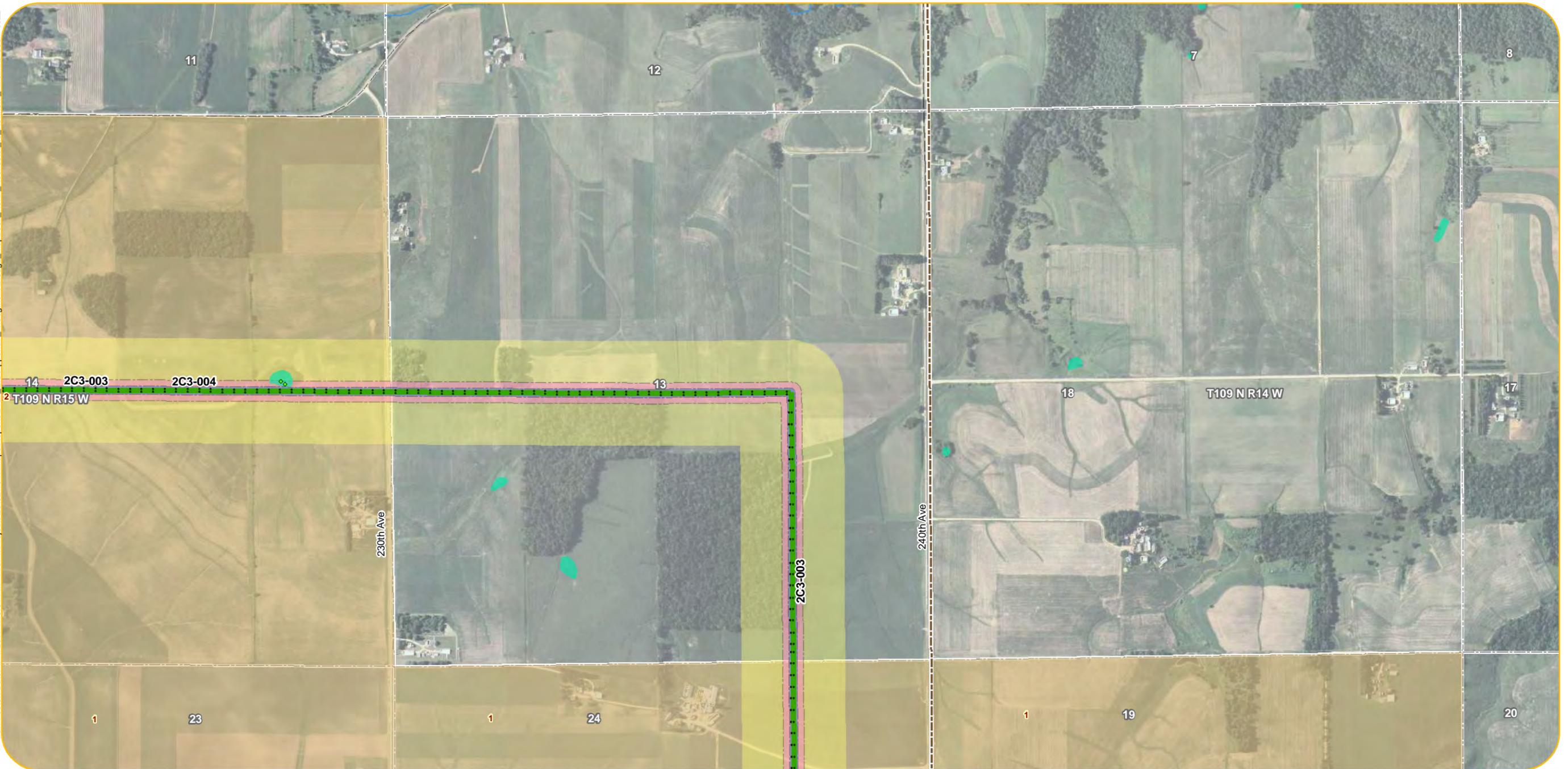




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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route <p>Additional Alternative Routes</p> <ul style="list-style-type: none"> Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 4 1 - 5 28 6 - 20 58 21 - 164 |
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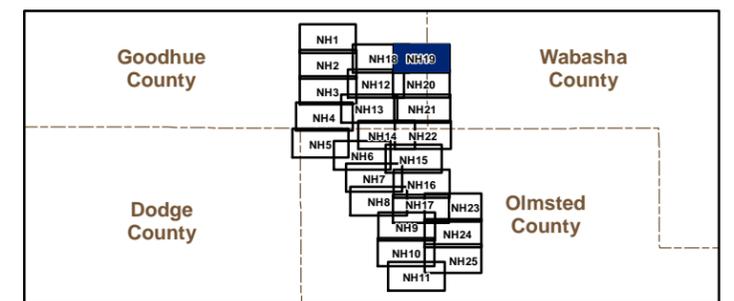
Appendix A - Sheet NH18
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

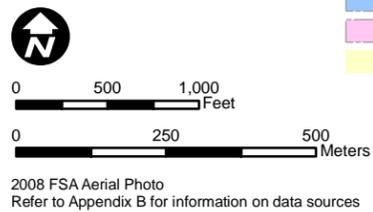
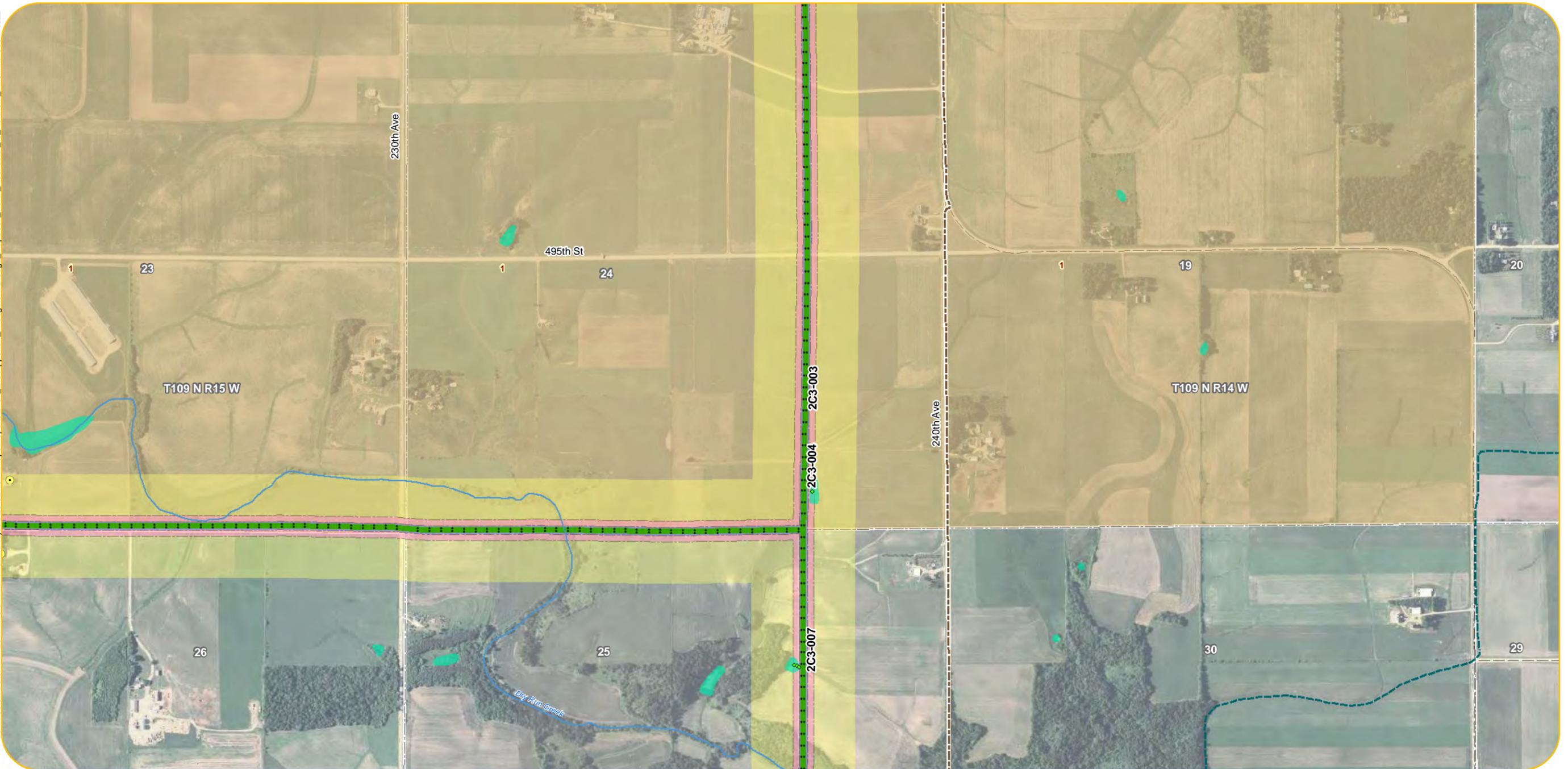




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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route <p>Additional Alternative Routes</p> <ul style="list-style-type: none"> Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 4 1 - 5 28 6 - 20 58 21 - 164 |
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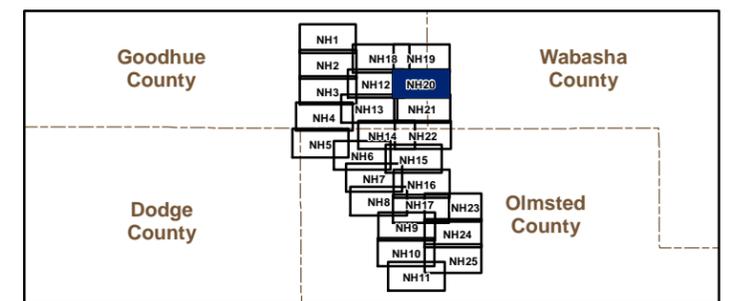
Appendix A - Sheet NH19
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

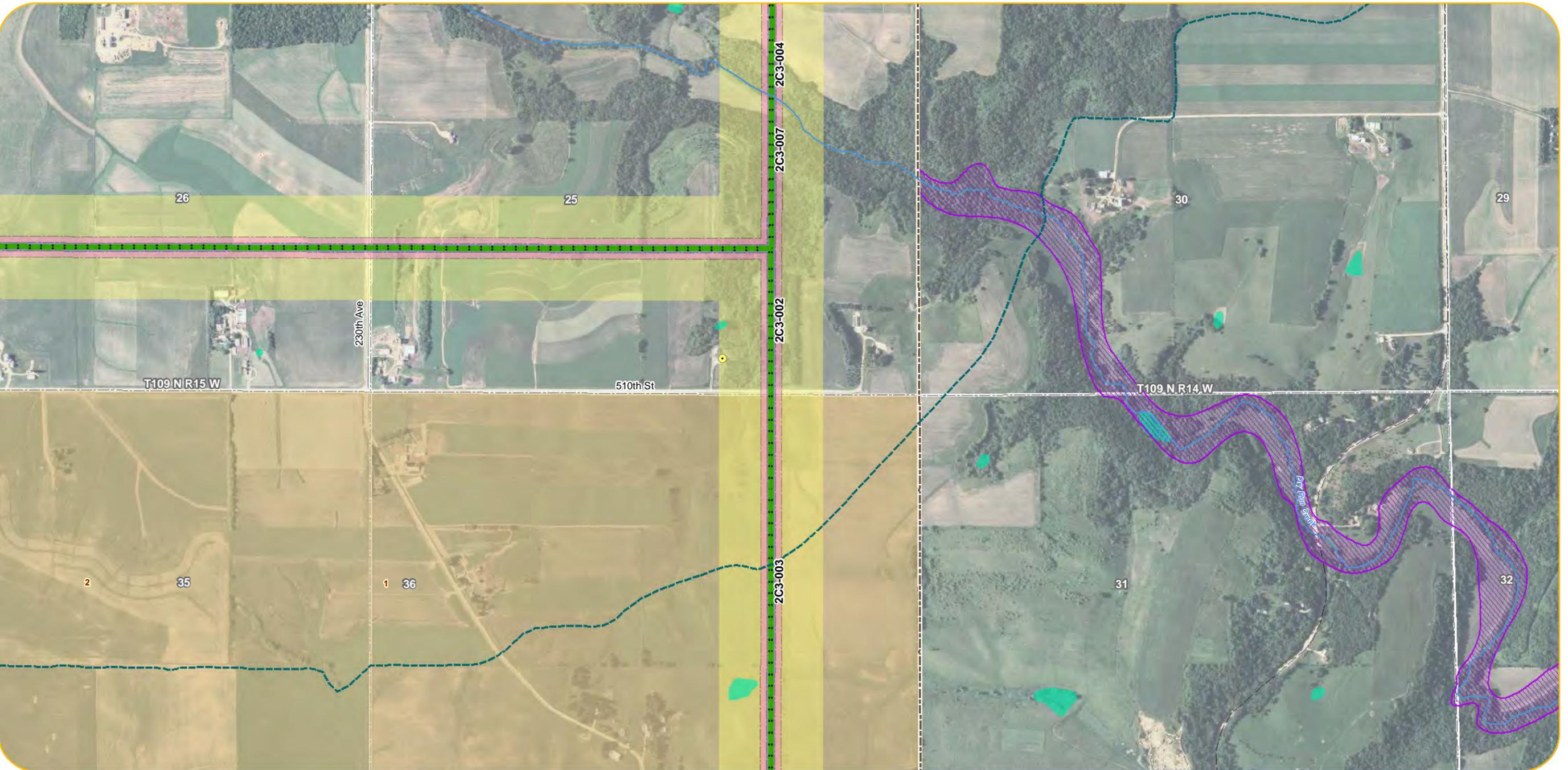




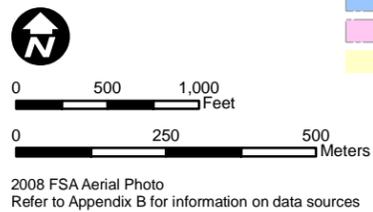
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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route Additional Alternative Routes Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 4 1 - 5 28 6 - 20 58 21 - 164 |
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Appendix A - Sheet NH20
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

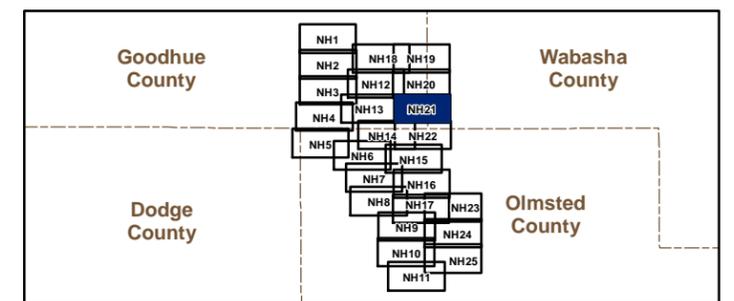


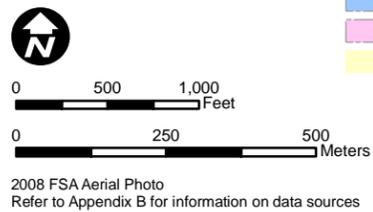
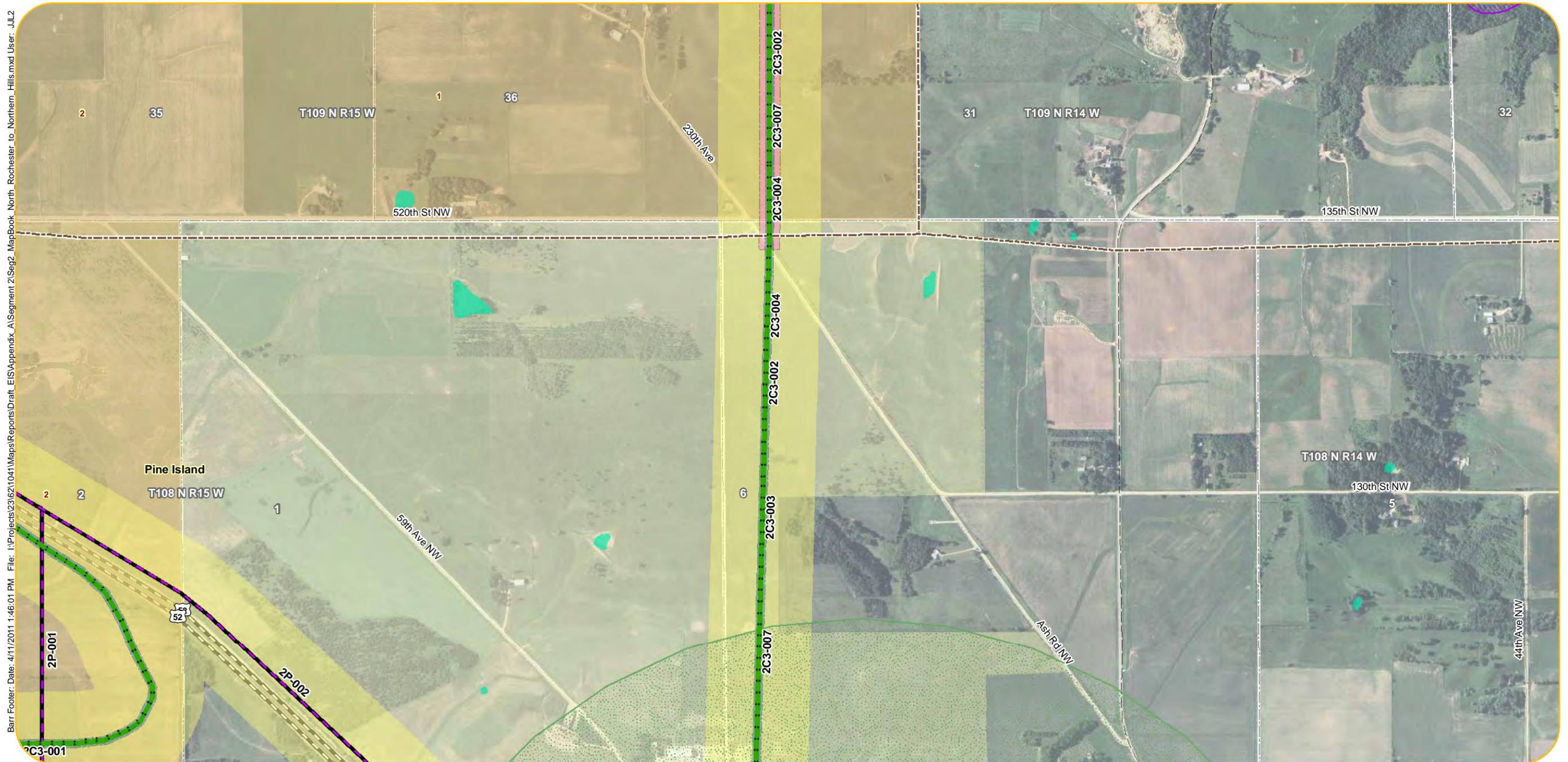


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| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route <p>Additional Alternative Routes</p> <ul style="list-style-type: none"> Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area <p>MCBS Biodiversity Significance</p> <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 4 1 - 5 28 6 - 20 58 21 - 164 |
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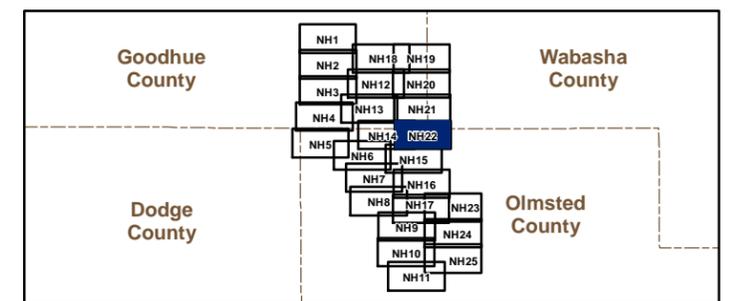
Appendix A - Sheet NH21
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

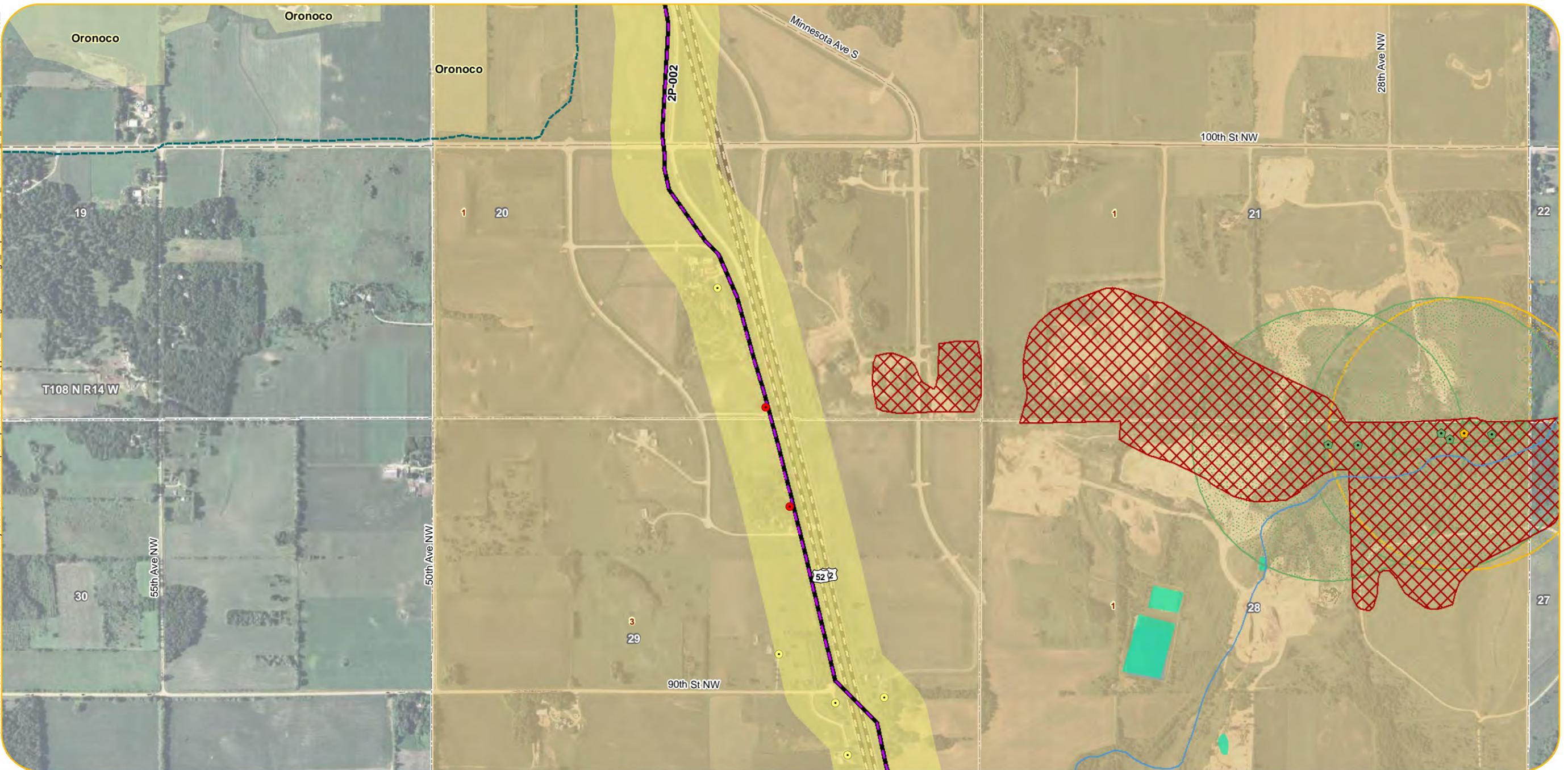




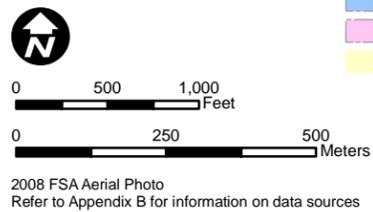
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|-------------------------------|--|--------------------------------|---|--|
| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Trout Streams | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Q3 FEMA Floodplain | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Recreational | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Scenic | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Wild | 1 - 2 |
| 80-foot ROW | Pinch Points | National Fish Hatchery | Designated Wildlife Lakes | 3 - 4 |
| 200-foot ROW | Airport | National Wildlife Refuge | Impaired Lakes | 5 - 6 |
| 1,000-foot Route Width | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Streams | Historical Sites |
| | MN DNR Natural Heritage | MCBS Biodiversity Significance | Public Water Inventory Basins (includes lakes and wetlands) | 4 1 - 5 |
| | Botanical | Moderate Significance | Public Water Inventory Watercourse | 28 6 - 20 |
| | Ecological | High Significance | NWI Wetlands | 58 21 - 164 |
| | Zoological | Outstanding Significance | Wetland Crossings > 1,000 Feet | |
| | | Wildlife Management Area | | |
| | | Scientific and Natural Area | | |

Appendix A - Sheet NH22
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

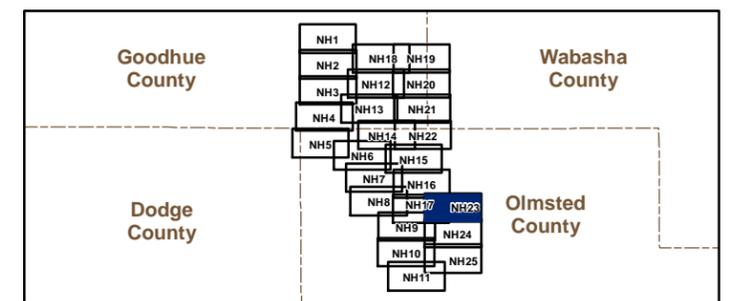


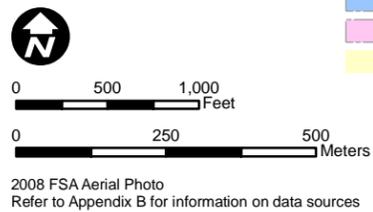
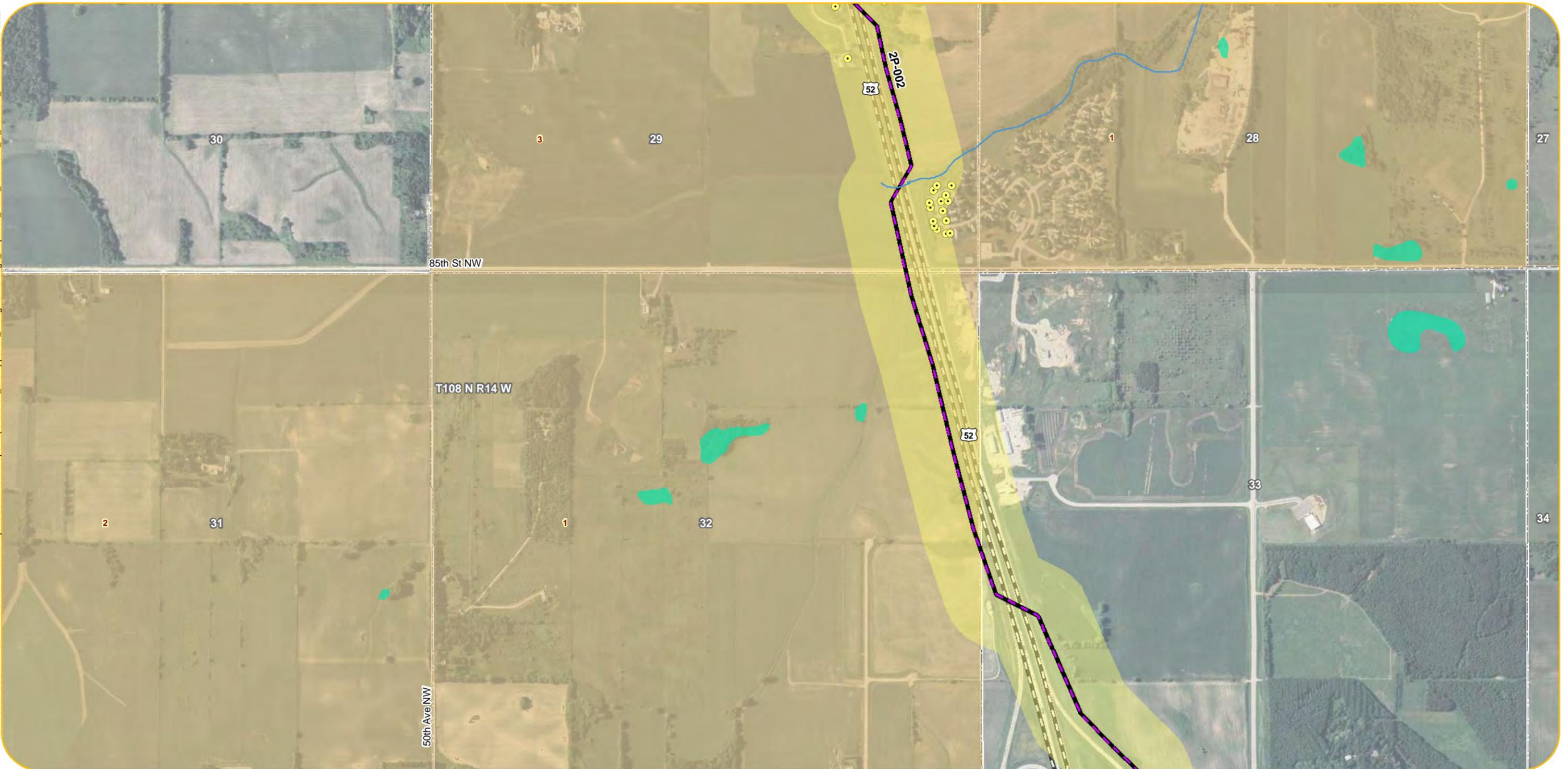


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|---|--|---|---|---|
| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route Additional Alternative Routes Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie MN DNR Natural Heritage Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 20 21 - 164 |
|---|--|---|---|---|



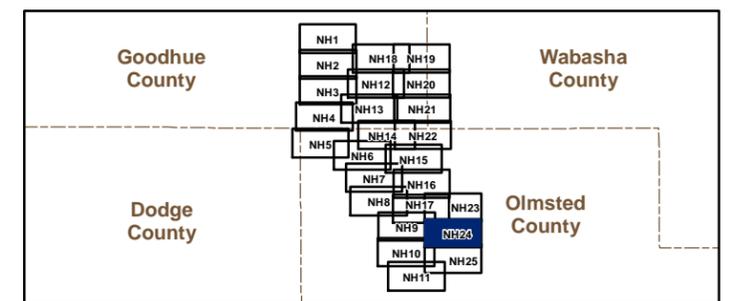
Appendix A - Sheet NH23
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

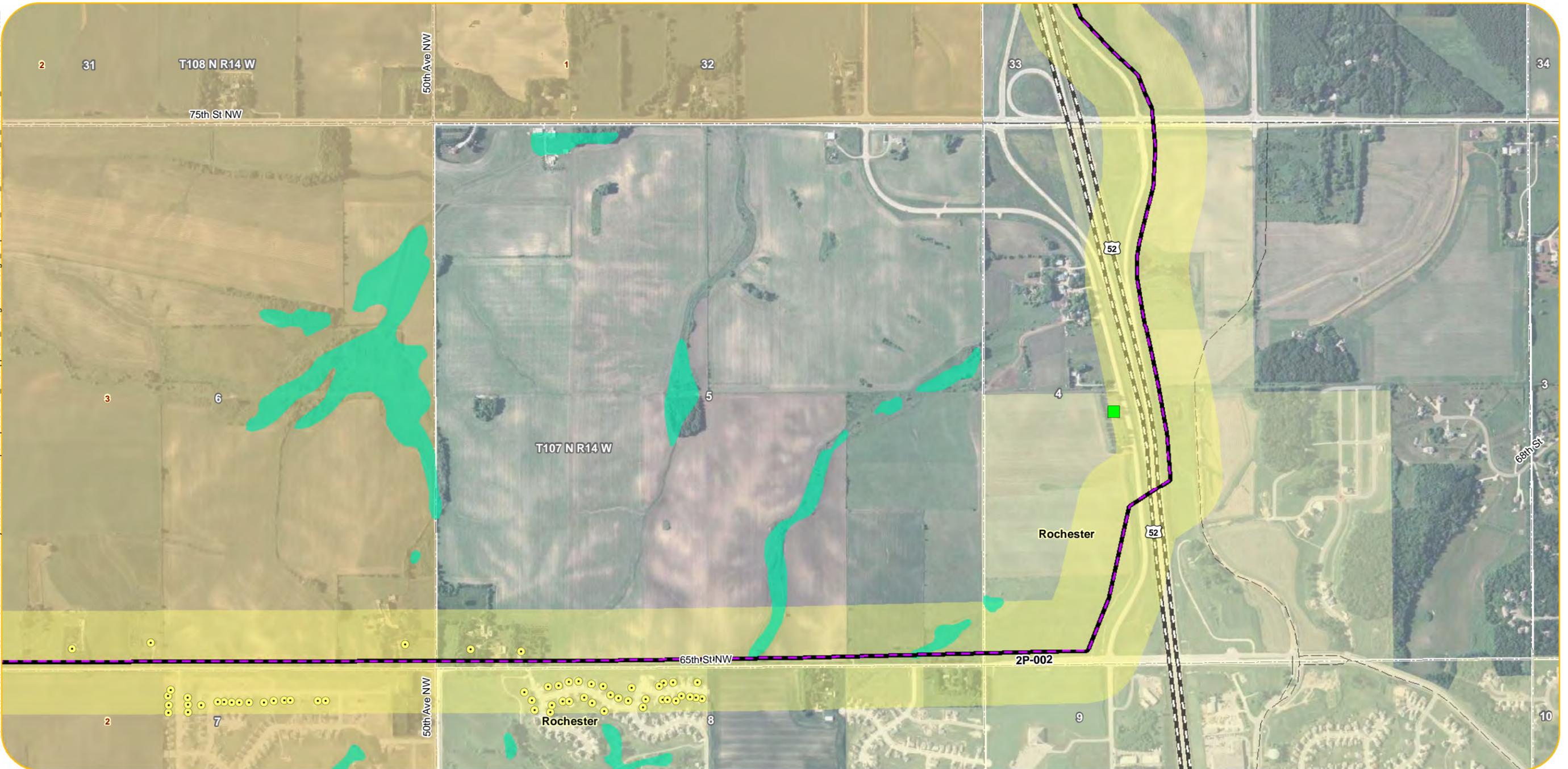




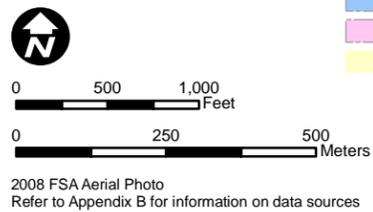
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|--|---|--|---|---|
| <p>Original Alignments</p> <ul style="list-style-type: none"> P Route A Route <p>Additional Alternative Routes</p> <ul style="list-style-type: none"> Variation on P Route Variation on A Route Variation on Both Parallel Alignment 80-foot ROW 200-foot ROW 1,000-foot Route Width | <ul style="list-style-type: none"> Project Substations Residences within 75 Feet of Alternatives Residences within 500 Feet of Alternatives Churches Cemeteries Schools Nursing Homes Hospitals Pinch Points Airport State Designated Railroad Prairie <p>MN DNR Natural Heritage</p> <ul style="list-style-type: none"> Botanical Ecological Zoological | <ul style="list-style-type: none"> Botanical Ecological Zoological Snowmobile Trail State Existing Trail Scenic_Byway Fish Technology Center Fisheries Research Station National Fish Hatchery National Wildlife Refuge Waterfowl Production Area MCBS Biodiversity Significance <ul style="list-style-type: none"> Moderate Significance High Significance Outstanding Significance Wildlife Management Area Scientific and Natural Area | <ul style="list-style-type: none"> State Park State Forest Tribal Lands Trout Streams Q3 FEMA Floodplain Recreational Scenic Wild Designated Wildlife Lakes Impaired Lakes Impaired Streams Public Water Inventory Basins (includes lakes and wetlands) Public Water Inventory Watercourse NWI Wetlands Wetland Crossings > 1,000 Feet | <p>Wetland Area (acres) within 150-foot ROW</p> <ul style="list-style-type: none"> 0.0 - 0.5 0.6 - 1.0 1.1 - 2.0 2.1 - 3.0 3.1 - 6.1 <p>Archaeological Sites</p> <ul style="list-style-type: none"> 1 - 2 3 - 4 5 - 6 <p>Historical Sites</p> <ul style="list-style-type: none"> 1 - 5 6 - 20 21 - 164 |
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Appendix A - Sheet NH24
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation





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| Original Alignments | Project Substations | Botanical | State Park | Wetland Area (acres) within 150-foot ROW |
| P Route | Residences within 75 Feet of Alternatives | Ecological | State Forest | 0.0 - 0.5 |
| A Route | Residences within 500 Feet of Alternatives | Zoological | Tribal Lands | 0.6 - 1.0 |
| Additional Alternative Routes | Churches | Snowmobile Trail | Trout Streams | 1.1 - 2.0 |
| Variation on P Route | Cemeteries | State Existing Trail | Q3 FEMA Floodplain | 2.1 - 3.0 |
| Variation on A Route | Schools | Scenic_Byway | Recreational | 3.1 - 6.1 |
| Variation on Both | Nursing Homes | Fish Technology Center | Scenic | Archaeological Sites |
| Parallel Alignment | Hospitals | Fisheries Research Station | Wild | 1 - 2 |
| 80-foot ROW | Pinch Points | National Fish Hatchery | Designated Wildlife Lakes | 3 - 4 |
| 200-foot ROW | Airport | National Wildlife Refuge | Impaired Lakes | 5 - 6 |
| 1,000-foot Route Width | State Designated Railroad Prairie | Waterfowl Production Area | Impaired Streams | Historical Sites |
| | MN DNR Natural Heritage | MCBS Biodiversity Significance | Public Water Inventory Basins (includes lakes and wetlands) | 4 1 - 5 |
| | Botanical | Moderate Significance | Public Water Inventory Watercourse | 28 6 - 20 |
| | Ecological | High Significance | NWI Wetlands | 58 21 - 164 |
| | Zoological | Outstanding Significance | Wetland Crossings > 1,000 Feet | |
| | | Wildlife Management Area | | |
| | | Scientific and Natural Area | | |



Appendix A - Sheet NH25
Detail Map
Segment 2,
North Rochester Substation to Northern Hills Substation

