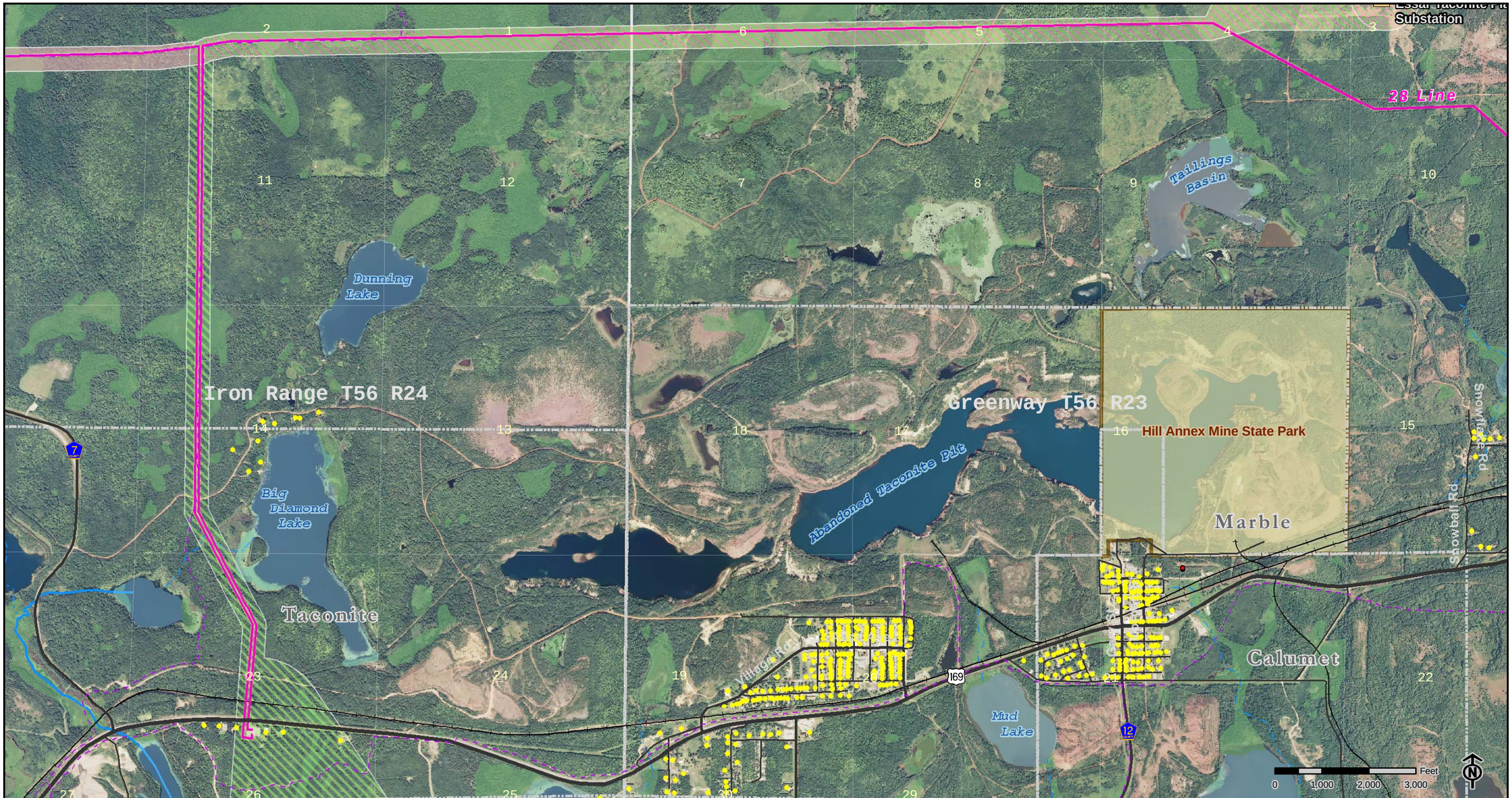
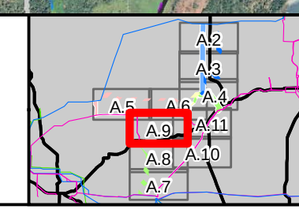


Route 1
Route 1A
Route 2
Route 2A
Route 3
Route 3A
Route 4
Route 4A
Wetland
DNR Public Water
State Park
Municipal Boundary
Existing 69 kV
Existing 115 kV
Existing 230 kV
Existing Pipelines
Snowmobile Trail
PWI Stream/River
PWI Trout Stream
Intermittent Stream
Home
Communication Tower
Existing Substation
Proposed Substation



Appendix A.9 - Detailed Route Maps
Nashwauk 230 kV Route Application
Nashwauk Public Utilites Commission

HDR

Map Document: (\\Mspe-gis-file\gisproj\Nashwauk\98143\map_docs\Route_Application_Figures\11x17_mapbook.mxd)
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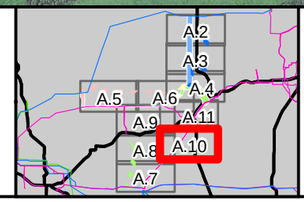
Route 1
Route 1A
Route 2
Route 2A
Route 3
Route 3A
Route 4
Route 4A
Proposed Route Centerline
Wetland
DNR Public Water
State Park
Existing 69 kV
Existing 115 kV
Existing 230 kV
Existing Pipelines
Snowmobile Trail
PWI Stream/River
PWI Trout Stream
Intermittent Stream
Home
Communication Tower
Existing Substation
Proposed Substation



Appendix A.10 - Detailed Route Maps
Nashwauk 230 kV Route Application
Nashwauk Public Utilites Commission
HDR

Map Document: (\\Mspe-gis-fil\e\gispro\Nashwauk\186143\map_docs\Route_Application_Figures11x17_mapbook.mxd)
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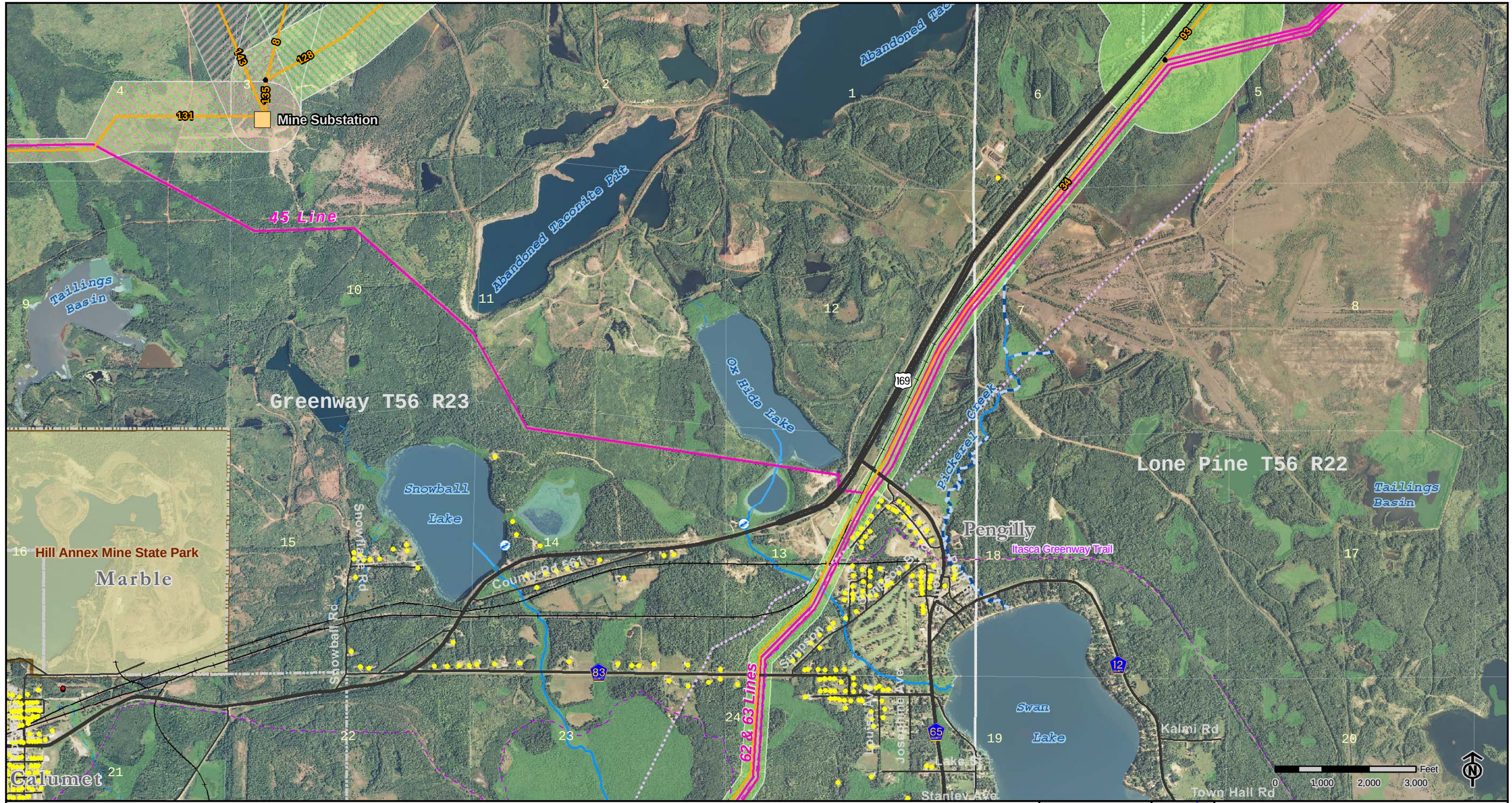
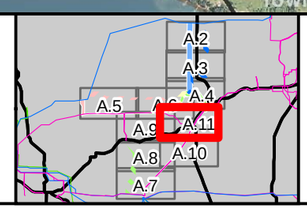


Route 1
Route 1A
Route 2
Route 2A
Route 3
Route 3A
Route 4
Route 4A
Proposed Route Centerline
Wetland
DNR Public Water
State Park
Existing 69 kV
Existing 115 kV
Existing 230 kV
Existing Pipelines
Snowmobile Trail
PWI Stream/River
PWI Trout Stream
Intermittent Stream
Home
Communication Tower
Existing Substation
Proposed Substation



Appendix A.11 - Detailed Route Maps
Nashwauk 230 kV Route Application
Nashwauk Public Utilites Commission

HDR

Map Document: (\\Mspe-gis-file\gispro)\Nashwauk\98143\map_docs\Route_Application_Figures11x17_mapbook.mxd)
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Lawrence Lake

Essar Steel Plant Substation

Essar Taconite Plant Substation

Keewatin

Nashwauk

0 Miles 1

69kV Transmission
115kV Transmission
230kV Transmission
Pipeline

Municipal Boundary
Existing Substation

Rejected Route Segment
Alternative Route Segment
Preferred Route Segment

Route Segment End Point
Proposed Substation

Appendix A.12

Rejected Route Segments

Nashwauk 230 kV Route Application
Nashwauk PUC

HDR

Map Document: (\\Mspe-gis-file\gis\proj\Nashwauk\96143\map_docs\Route_Application_Figures\FigureXX_StudyAreas.mxd)
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