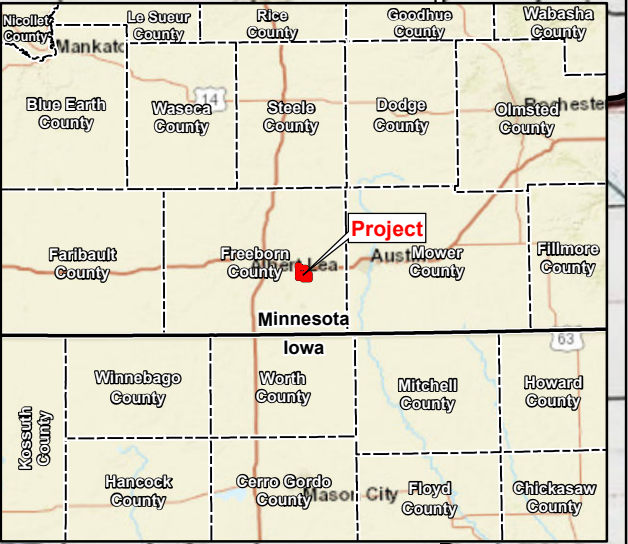
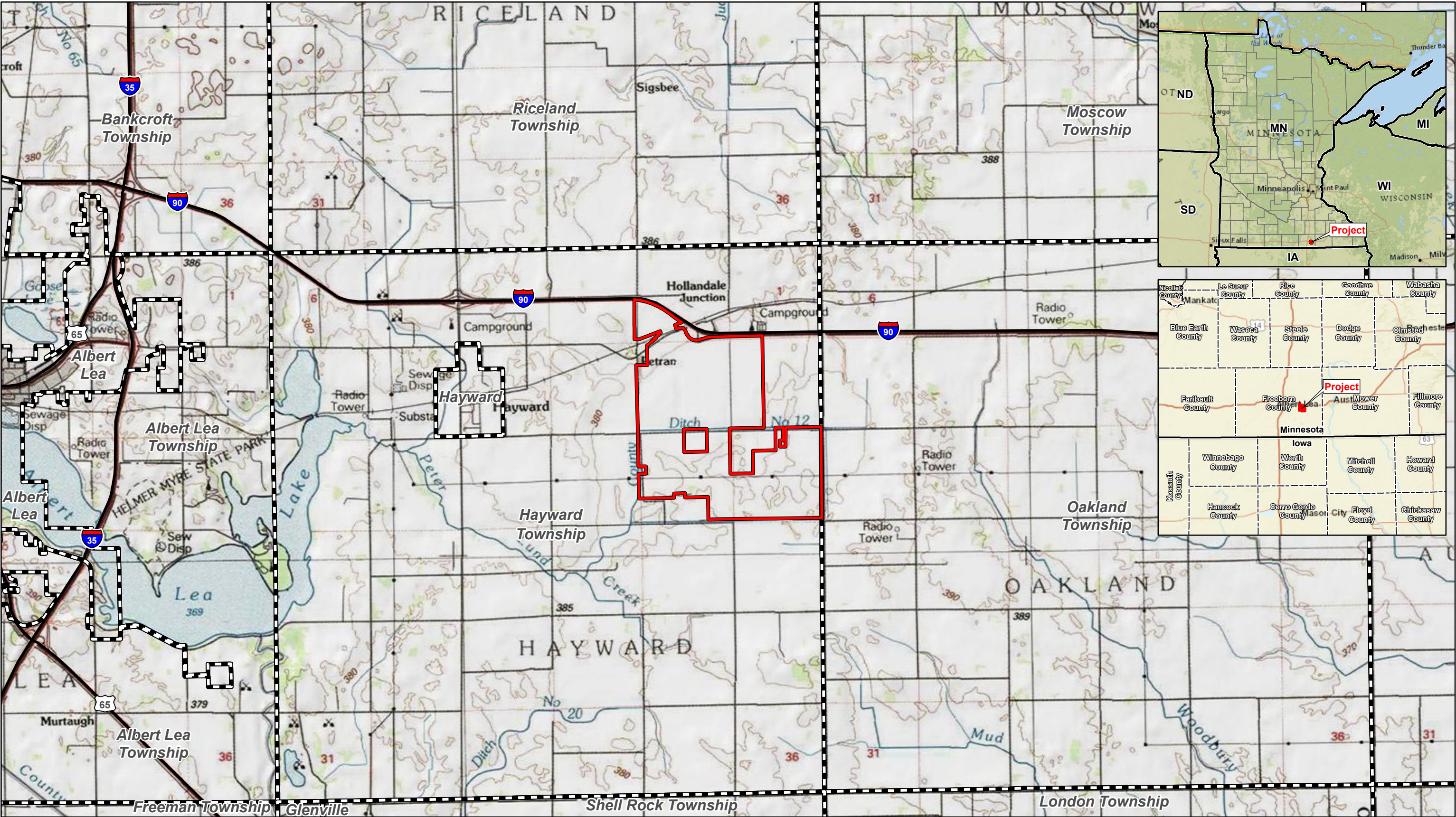


Figures



Data Source(s): Westwood (2021); ESRI WMS USA Topo, National Geographic, & World Streets Basemaps (Accessed 2021); Census Bureau (2019).

Legend

-  Project Area
-  Municipal Boundary
-  Major Road



Hayward Solar Project

Freeborn County, Minnesota

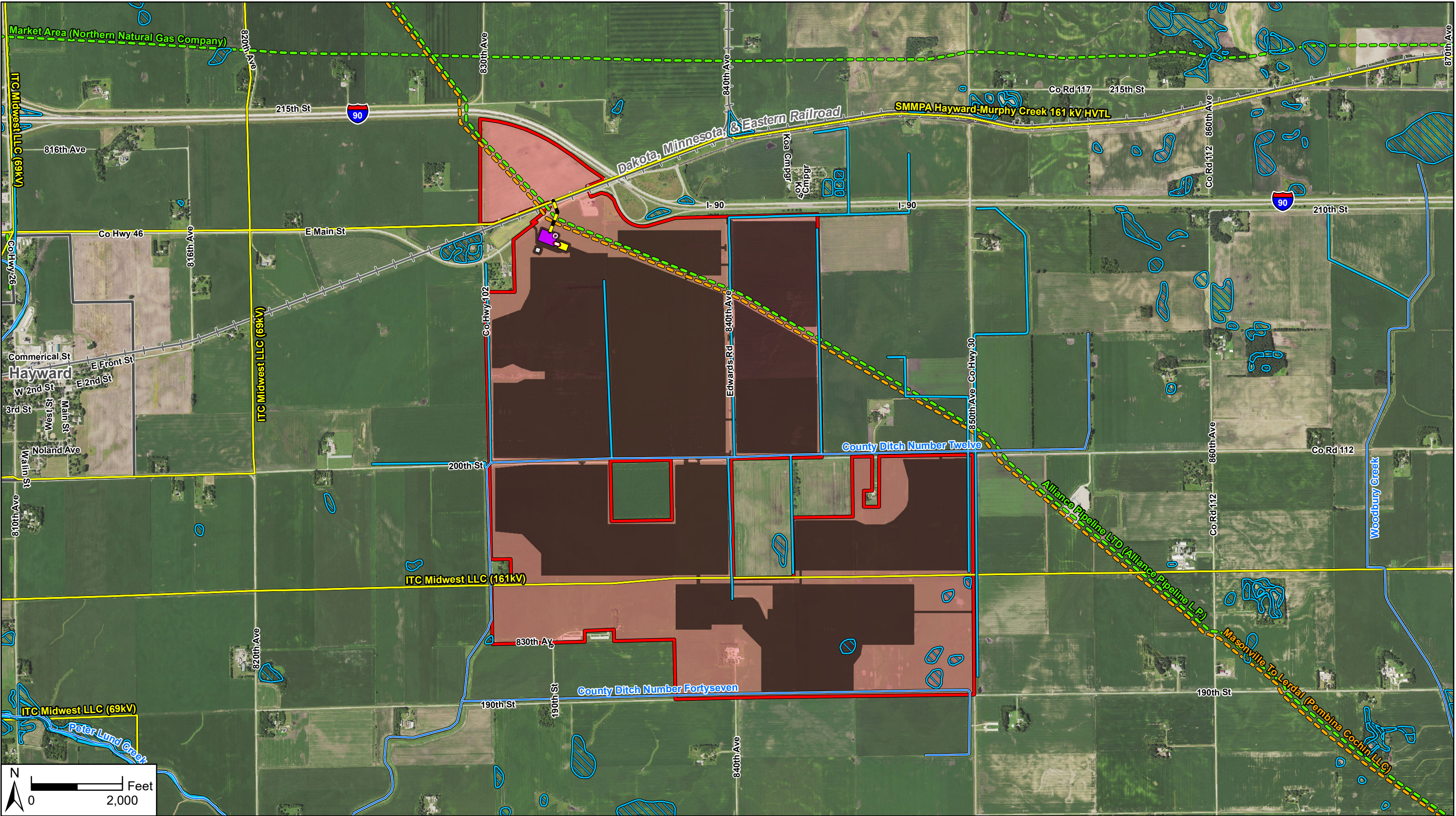
Project Location &
USGS Topography

FIGURE 1

Westwood

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Map Document: N:\0026599.00\GIS\Con Figs\Hayward_Con_Fig1_ProjectLocation&USGSTopography_210427.mxd 4/27/2021 9:55:21 AM radevito



Data Source(s): Westwood (2021); Minnesota NAIP Imagery (2019); Census Bureau (2019); Ventyx Velocity Suite, Ventyx Energy LLC, (2020); USGS NHD Dataset (2019); U.S. Fish and Wildlife Service (2020); Ducks Unlimited (2020); NPMS (2021). Existing pipeline routes are approximate.

Westwood

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Legend

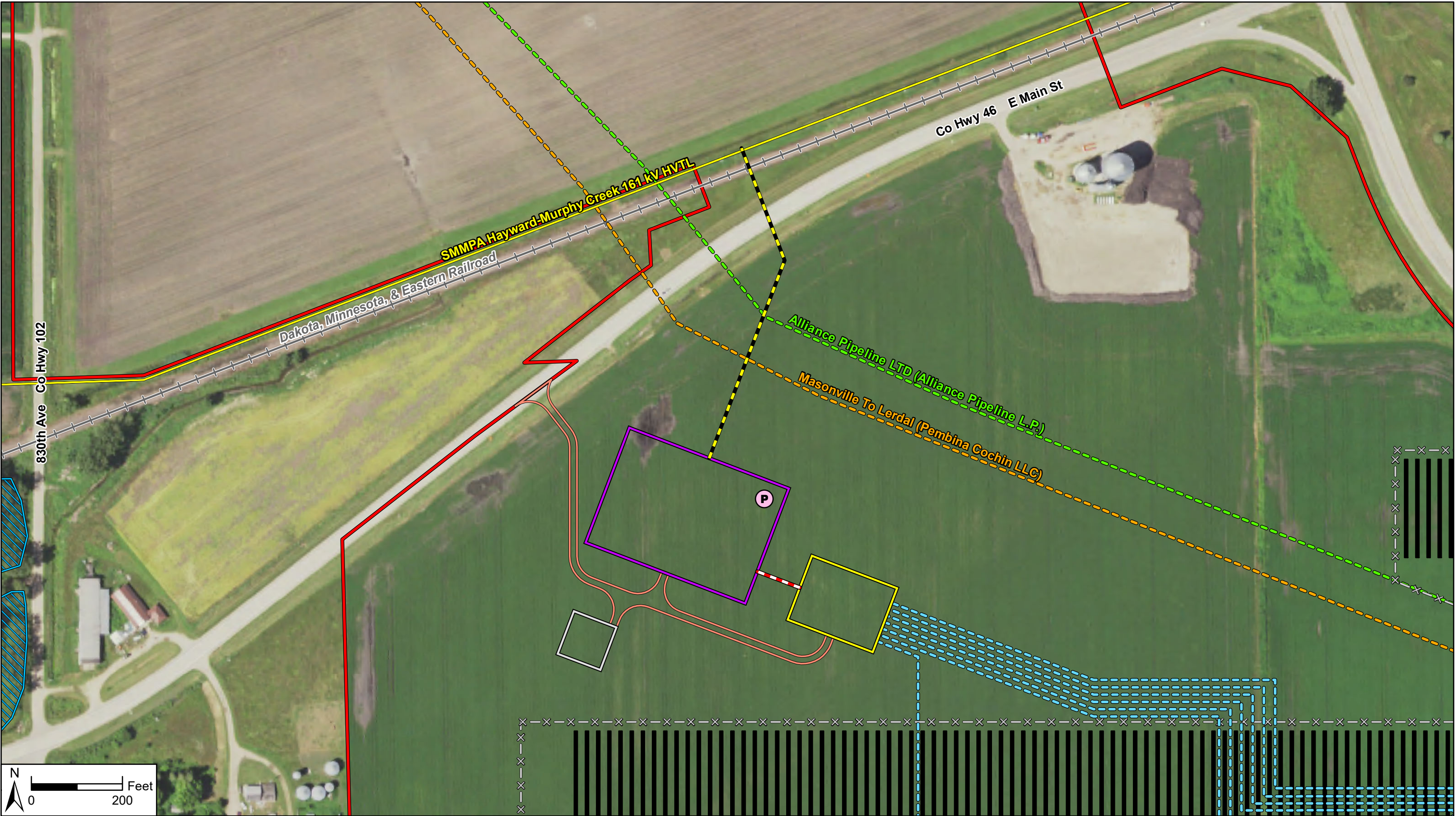
- | | | | | |
|------------------------------|-----------------------|----------------------|-------------------------------|----------------|
| Project Area | Proposed Substation | POI | Existing Transmission Line | Major Waterway |
| Current Site Control Area | SMMPA Switchyard | SMMPA Line Tap | Existing Natural Gas Pipeline | NW1 Wetland |
| Preliminary Development Area | Proposed O&M Building | Project Gen-Tie Line | Existing Crude Oil Pipeline | Railroad |
| Municipal Boundary | | | | |

Hayward Solar Project

Freeborn County, Minnesota

Land Rights & Preliminary
Development Area

FIGURE 2



Data Source(s): Westwood (2021); Minnesota NAIP Imagery (2019); Census Bureau (2019); Ventyx Velocity Suite, Ventyx Energy LLC (2020); USGS NHD Dataset (2019); U.S. Fish and Wildlife Service (2020); Ducks Unlimited (2020); NPMS (2021). Existing pipeline routes are approximate.

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Legend

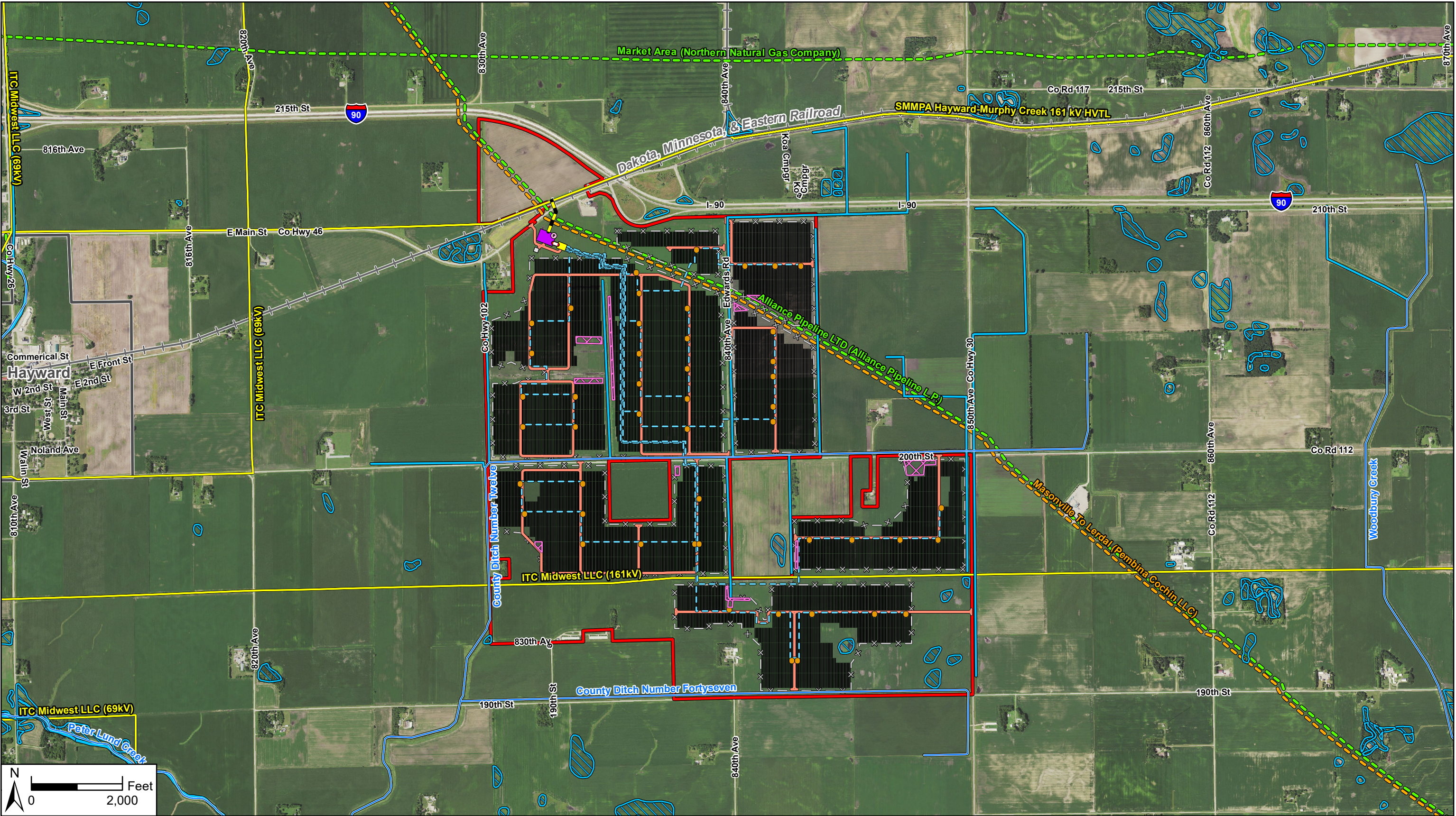
- | | | | | |
|-------------------------------------|--|-------------------------------|------------------------------|-------------------------------|
| Project Area | Proposed Project Access Road | Proposed Project O&M Building | POI | Existing Transmission Line |
| Proposed Project Solar Array Layout | SMMPA Line Tap | Proposed Project Substation | Proposed Project Water Basin | Existing Natural Gas Pipeline |
| Proposed Project Fence Boundary | Project Gen-Tie Line | SMMPA Switchyard | Major Waterway | Existing Crude Oil Pipeline |
| | Proposed Project Underground Collection Line | Proposed Project Inverter | NW1 Wetland | Railroad |

Hayward Solar Project
Freeborn County, Minnesota

Project Interconnection Facilities

FIGURE 3

Map Document: N:\0026599.00\GIS\Con\Figures\Hayward_Con_Fig3_ProjectInterconnectionFacilities_210427.mxd 4/27/2021 9:54:43 AM redevit



Data Source(s): Westwood (2021); Minnesota NAIP Imagery (2019); Census Bureau (2019); Ventyx Velocity Suite, Ventyx Energy LLC (2020); USGS NHD Dataset (2019); U.S. Fish and Wildlife Service (2020); Ducks Unlimited (2020).

Westwood
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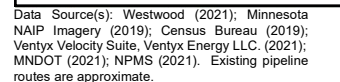
- Legend**
- | | | | | | |
|-------------------------------------|----------------------------------|-------------------------------|----------------------|------------------------------|-------------------------------|
| Project Area | Proposed Project Access Road | Proposed Project Substation | POI | Proposed Project Water Basin | Existing Transmission Line |
| Proposed Project Solar Array Layout | Proposed Project Collection Line | SMMPA Switchyard | SMMPA Line Tap | Major Waterway | Existing Natural Gas Pipeline |
| Proposed Project Fence Boundary | Proposed Project Inverter | Proposed Project O&M Building | Project Gen-Tie Line | NWI Wetland | Existing Crude Oil Pipeline |
| Municipal Boundary | | | | Railroad | |

Hayward Solar Project

Freeborn County, Minnesota

Preliminary Facility Design

FIGURE 4



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Project Area

1-Mile Project Area Buffer

Municipal Boundary

 Existing Substation
 Airport
 Natural Gas Compressor Station

Existing Transmission Line

Existing Natural Gas Pipeline

Existing Crude Oil Pipeline

 Railroad
 Snowmobile Trail

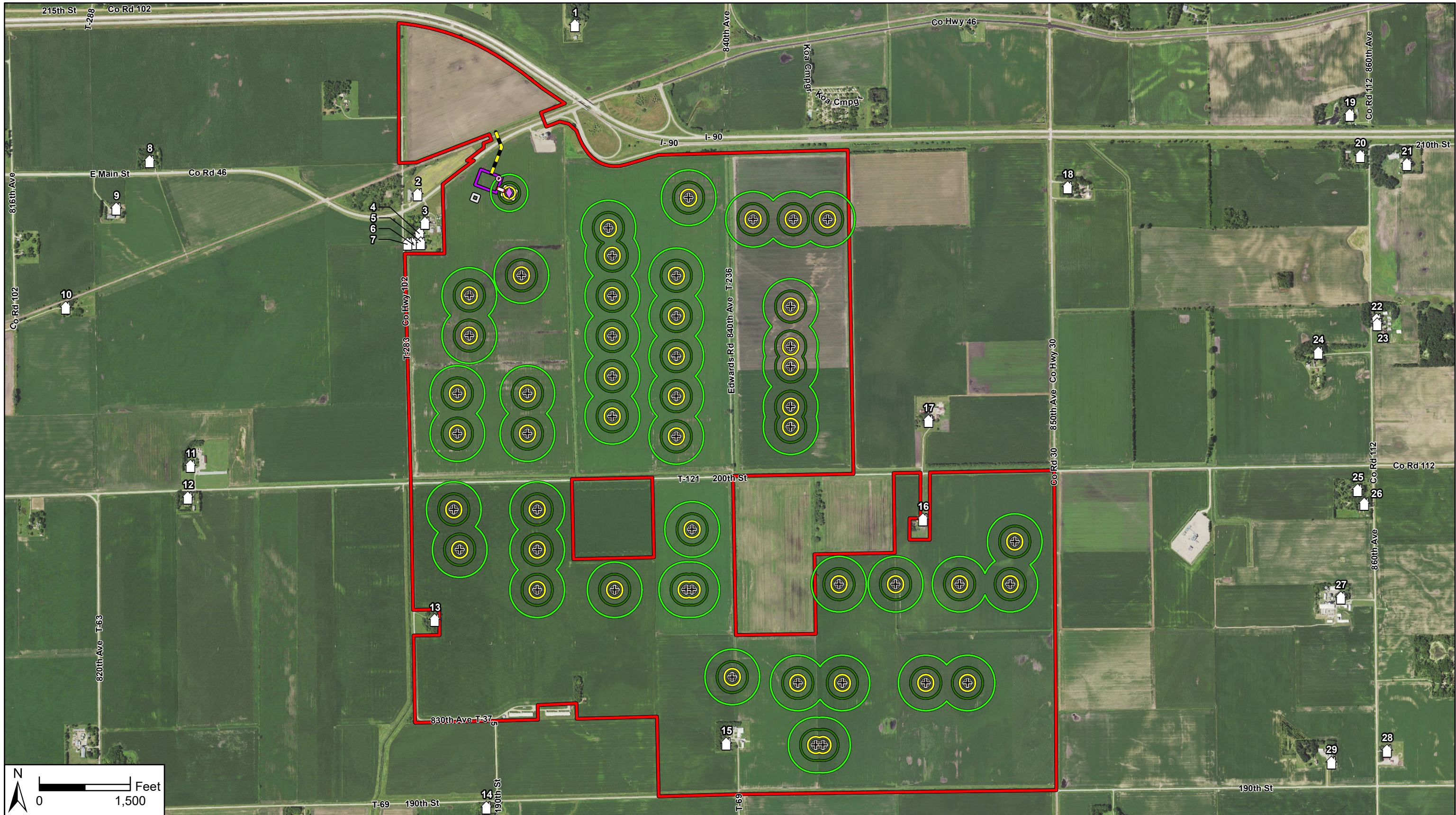
Legend for the number of publications by year of publication:

- 15 - 205
- 206 - 810
- 811 - 1,500
- 1,501 - 2,800
- 2,801 - 12,700

Freeborn County, Minnesota

Existing Infrastructure & Traffic Summary

FIGURE 5



Data Source(s): Westwood (2021); Minnesota NAIP Imagery (2019); Census Bureau (2019).

Legend

Project Area

Proposed Project Substation

SMMPA Switchyard

Proposed Project O&M Building

POI

SMMPA Line Tap

Project Gen-Tie Line

Proposed Project Inverter Skid

Proposed Project Substation Transformer

Residence

Decibel Levels

90dBA
 75dBA
 60dBA

55dBA
 50dBA
 45dBA

40dBA
 35dBA

Hayward Solar Project

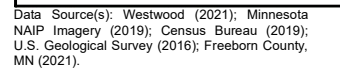
Freeborn County, Minnesota

Noise Modeling Results

FIGURE 6

Westwood

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Data Source(s): Westwood (2021); Minnesota NAIP Imagery (2019); Census Bureau (2019); U.S. Geological Survey (2016); Freeborn County, MN (2021).

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Westwood Professional Services, Inc.

Project Area

Project Area Parcel

1-Mile Project Area Buffer

	Cultivated Crops (96.64%)		Developed, Open Space (2.23%)
	Developed, Low Intensity (0.86%)		Hay/Pasture (0.02%)
	Developed, Medium Intensity (0.12%)		Herbaceous (0.12%)
	Developed, High Intensity (0.0001%)		Barren Land (0%)

Developed, Open Space (2.23%)
Hay/Pasture (0.02%)
Herbaceous (0.12%)
Barren Land (0%)

Deciduous Forest (0%)
Emergent Herbaceous Wetland (0%)
Mixed Forest (0.01%)

NLCD Land Cover & Zoning

FIGURE 7