Information for File # 2013-02925-MTS

Applicant: **Scott Morgan - Minnesota Department of Transportation (MNDOT)**

Corps Contact: **Michael Setering**

Address: **180 East Fifth Street, Suite 700, St. Paul, Minnesota 55101-1678**

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Phone: **(651) 290-5396**

Primary County: **Nicollet**

Section: **4, 9, 10, 15 – 3, 9, 10, 16, 21, 28, 33 – 26, 34, 35**

Township: **110 N. – 111 N. – 112 N.**

Range: **26 W.**

Information Complete On: July 31, 2013

Posting Expires On: October 28, 2013

Authorization Type: LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act

PROJECT DESCRIPTION AND PURPOSE: The applicant proposes to reconstruct a segment of U.S. Highway 169, from Le Sueur to Mankato. The work would include mill and overlay, culvert replacements and drainage improvements, reconfiguration of intersections, shoulder widening, and raising the existing grade along portions of the highway to elevate those segments above the floodplain.

The purpose of the project is to increase public safety for users of U.S. Highway 169 by raising the highway grade above the 100-year flood elevation to minimize the effects of flooding events, reconfiguring intersections to reduce the number of conflict points and right-angle crashes, expanding shoulder widths and improving guardrail sections.

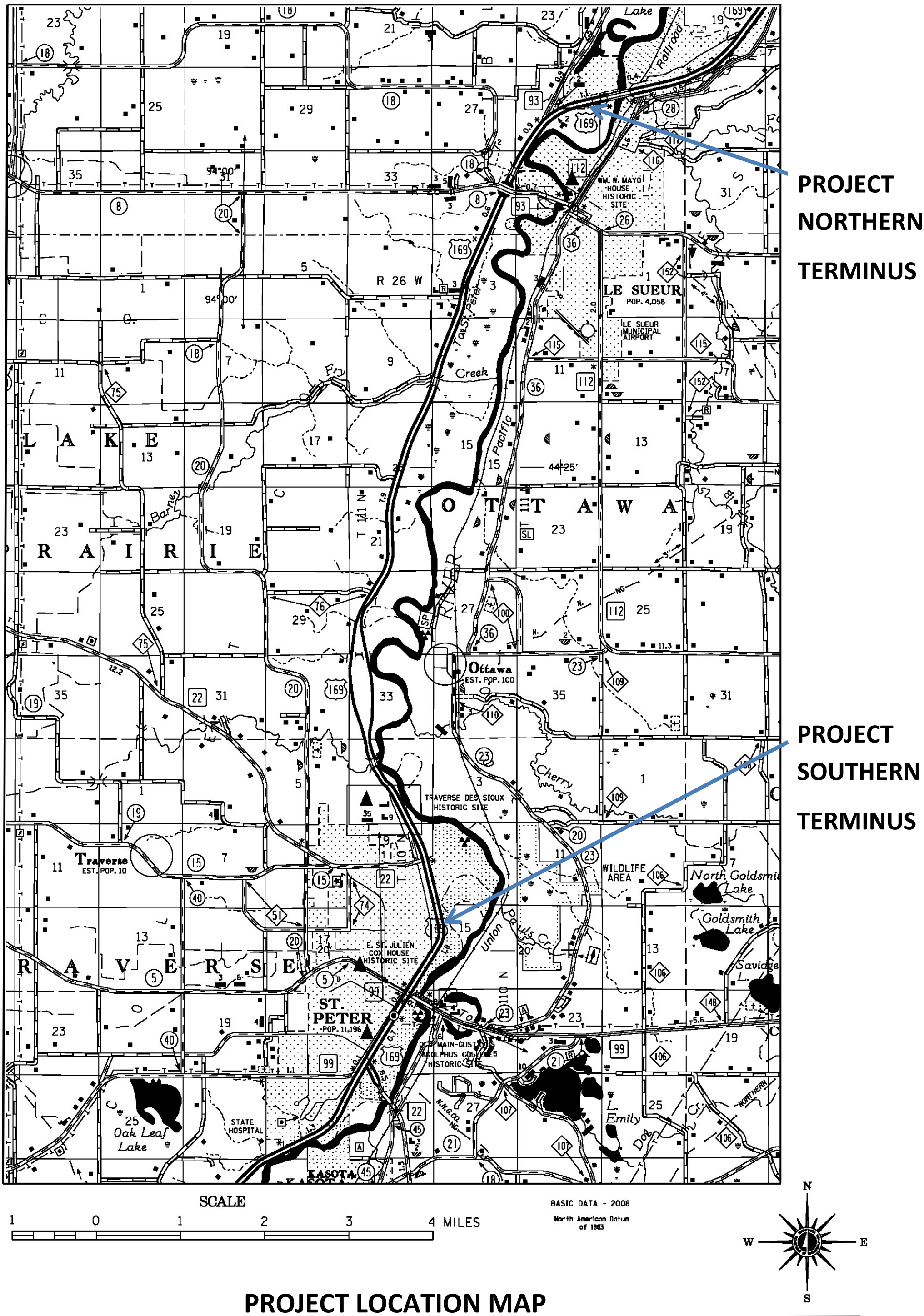
NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: The proposed work would result in permanently impacting 0.87 acre of fresh wet meadow wetlands, 0.27 acre of floodplain forest wetlands, and 0.69 acre of seasonally flooded wetlands.

ALTERNATIVES CONSIDERED: The no-build alternative would avoid impacts to aquatic resources; however, this alternative does not meet the project purpose. Threats to public safety would still exist. There would be no mill and overlay, high water events would continue to flood the roadway, conflict points at intersections would remain, therefore this alternative was dismissed.

Alternatives will be discussed further with the applicant prior to reaching a permit decision.

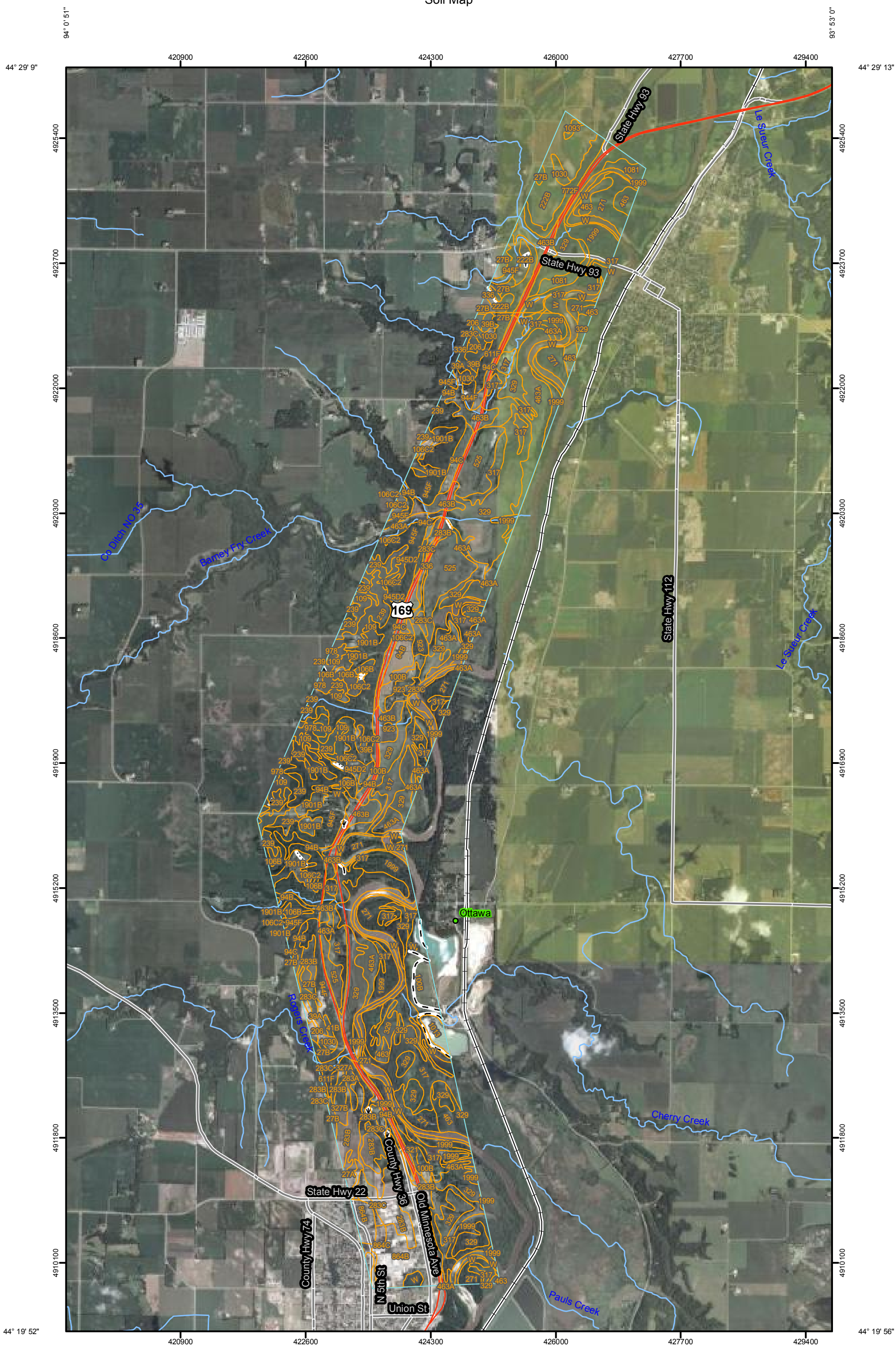
COMPENSATORY MITIGATION: The applicant has proposed to provide compensatory mitigation via a Minnesota Wetland Bank; however, compensatory mitigation ratios and a specific wetland bank have not been identified at this time.

See enclosures.



PROJECT LOCATION MAP

Custom Soil Resource Report
Soil Map



Map Unit Legend

Le Sueur County, Minnesota (MN079)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
100B	Copaston loam, 1 to 6 percent slopes	109.1	1.6%
271	Minnelska fine sandy loam, frequently flooded	307.2	4.5%
317	Oshawa silt loam	189.3	2.8%
329	Chaska silt loam	159.6	2.3%
463	Minnelska fine sandy loam, occasionally flooded	111.5	1.6%
1013	Pits, quarry	25.1	0.4%
W	Water	196.4	2.9%
Subtotals for Soil Survey Area		**1,098.2**	**16.1%**
Totals for Area of Interest		**6,820.3**	**100.0%**

Nicollet County, Minnesota (MN103)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
27A	Dickinson loam, 0 to 2 percent slopes	14.6	0.2%
27B	Dickinson loam, 2 to 6 percent slopes	32.8	0.5%
39A	Wadena loam, 0 to 2 percent slopes	23.9	0.4%
39B	Wadena loam, 2 to 6 percent slopes	32.6	0.5%
41B	Estherville sandy loam, 1 to 6 percent slopes	5.2	0.1%
94B	Terril loam, 1 to 6 percent slopes	163.6	2.4%
94C	Terril loam, 6 to 12 percent slopes	101.3	1.5%
100B	Copaston loam, 1 to 6 percent slopes	49.7	0.7%
106B	Lester loam, 2 to 6 percent slopes	37.5	0.5%
106C2	Lester loam, 6 to 12 percent slopes, eroded	63.6	0.9%
109	Cordova clay loam	144.5	2.1%
206	Kasota loam	14.4	0.2%
239	Le Sueur clay loam	229.5	3.4%
283A	Plainfield loamy sand, 0 to 2 percent slopes	12.8	0.2%
283B	Plainfield loamy sand, 2 to 6 percent slopes	266.3	3.9%
283C	Plainfield loamy sand, 6 to 15 percent slopes	126.7	1.9%
317	Oshawa silty clay loam	365.3	5.4%
321	Tilfer silty clay loam	18.6	0.3%
327A	Dickman sandy loam, 0 to 2 percent slopes	4.4	0.1%
327B	Dickman sandy loam, 2 to 6 percent slopes	17.5	0.3%
329	Chaska loam	701.3	10.3%
336	Delft clay loam	16.5	0.2%
463A	Minnelska sandy loam, 0 to 2 percent slopes	421.1	6.2%
463B	Minnelska loam, 1 to 4 percent slopes	170.4	2.5%

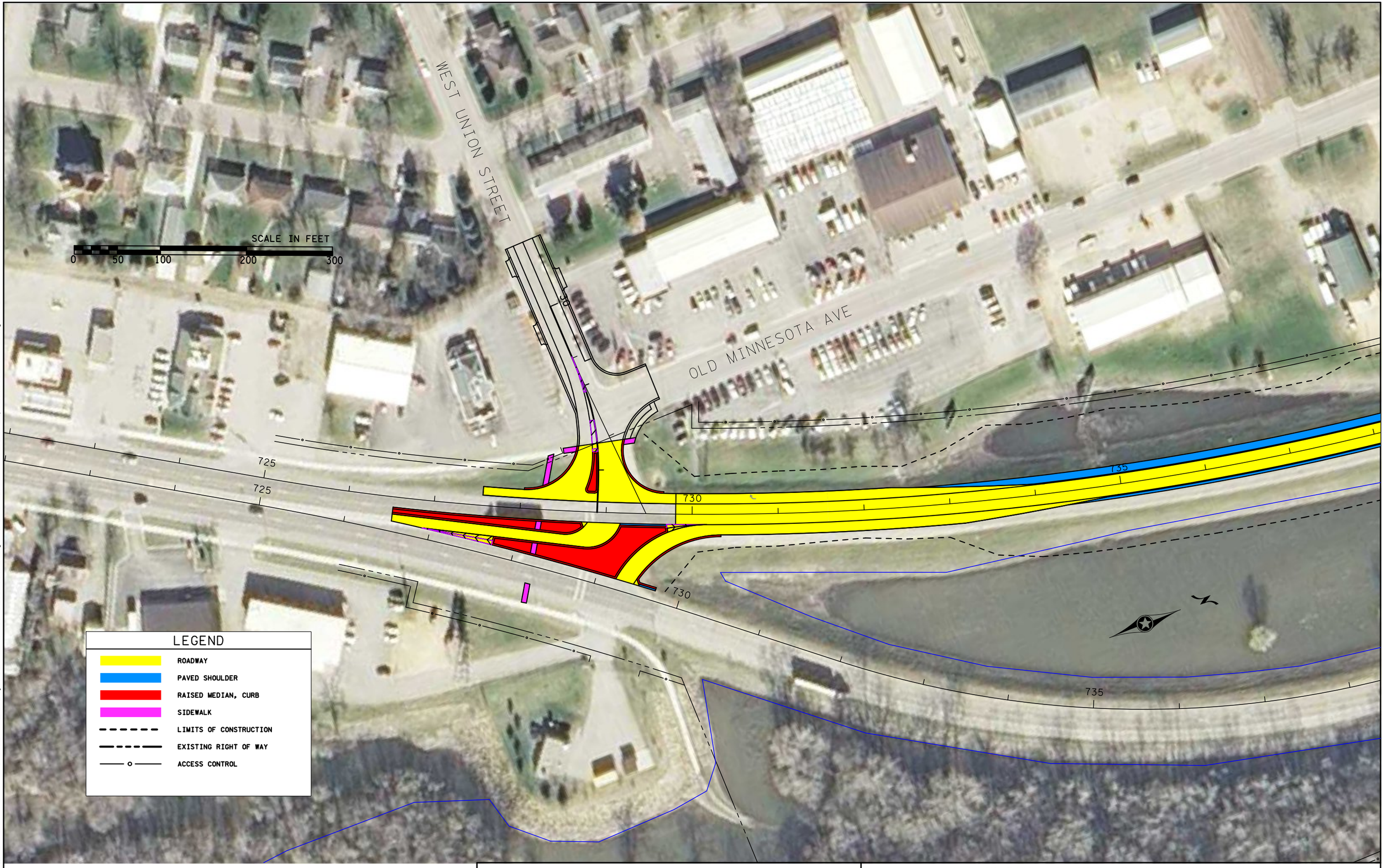
Nicollet County, Minnesota (MN103)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
525	Muskego muck	238.8	3.5%
611F	Hawick sandy loam, 18 to 70 percent slopes	68.5	1.0%
864B	Plainfield-Urban land complex, 0 to 6 percent slopes	243.1	3.6%
864C	Plainfield-Urban land complex, 6 to 15 percent slopes	20.2	0.3%
923	Copaston-Rock outcrop complex, 2 to 60 percent slopes	43.8	0.6%
944F	Lester-Storden-Estherville complex, 18 to 70 percent slopes	103.9	1.5%
945D2	Lester-Storden complex, 12 to 18 percent slopes, eroded	25.9	0.4%
945F	Lester-Storden complex, 18 to 70 percent slopes	662.5	9.7%
978	Cordova-Rolfe complex	10.5	0.2%
1030	Udorthents-Pits, gravel complex	21.6	0.3%
1901B	Le Sueur-Lester complex, 1 to 6 percent slopes	136.6	2.0%
1999	Minnelska-Kalmarville complex, frequently flooded	256.2	3.8%
W	Water	149.4	2.2%
Subtotals for Soil Survey Area		**5,015.2**	**73.5%**
Totals for Area of Interest		**6,820.3**	**100.0%**

Sibley County, Minnesota (MN143)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
27B	Dickinson loam, 2 to 6 percent slopes	32.7	0.5%
222B	Lasa loamy fine sand, 2 to 8 percent slopes	178.5	2.6%
317	Oshawa silty clay loam, frequently flooded	11.8	0.2%
329	Chaska loam, occasionally flooded	112.8	1.7%
336	Delft clay loam	3.3	0.0%
463B	Minnelska loam, 1 to 4 percent slopes	53.1	0.8%
772F	Swanlake-Lasa complex, 18 to 65 percent slopes	50.8	0.7%
945F	Lester-Storden complex, 18 to 65 percent slopes	55.0	0.8%
1030	Udorthents-Pits, gravel, complex	12.5	0.2%
1081	Minnelska-Abscota complex, occasionally flooded	50.6	0.7%
1093	Webster-Biscay complex	6.7	0.1%
1999	Minnelska-Kalmarville complex, frequently flooded	100.3	1.5%
W	Water	38.1	0.6%
Subtotals for Soil Survey Area		**706.2**	**10.4%**
Totals for Area of Interest		**6,820.3**	**100.0%**

US TH169
SP 5209-66 Nicolett County, MN
Wetland Summary Table

						Actual Impacts		Impacts by Type (acre)												
Wetland Impact	**Roadway Stationing**	**Land Use**	**Basin Size (Sq Ft)**	**Basin Size (Acres)**	**Amount in Right-of-Way (Acres)**	**Impact (Sq Ft)**	**Impact (Acres)**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**Channel**	**Circular 39**	**Cowardin Type**	**Wetland Community**	**Plant Community (Species)**	**Notes**
1	740+50 -750+00	Roadway Median	235770	5.42	5.42	22009	0.51	0.51								Type 1	PEMCd	SFIB	Roadway Turf Mix	Lies within existing right-of-way
2	740+50 -749+00	Roadway Ditch that Abuts Floodplain Forest	791700	18.2	18.2	10209	0.23	0.23								Type 1	PSS1/EMA	Ffor	Cottonwood, Willows	Lies within existing right-of-way
3	749+50 -752+50	Roadway Ditch that Abuts Floodplain Forest	71340	1.64	1.64	1631	0.04	0.04								Type 1	PFO1C	Ffor	Cottonwood, Willows	Lies within existing right-of-way
4	777+00 - 781+50	Roadway Ditch that Abuts Floodplain Forest	118755	2.73	2.73	7754	0.18	0.18								Type 1	PEMF	SFIB	Highway Turf Mix	Lies within existing right-of-way
	865+00	Robarts Creek	n/a	n/a	n/a	0	0.00									N/A	R2U		Riverine	Listed for Informational Purposes
5	869+00 - 872+00	Roadway Median	4760	0.11	0.10	0	0.10		0.10							N/A	PEMC	SFIB	Roadway Turf Mix	Lies within existing right-of-way
6	873+00 - 886+50	Freshwater Emergent Wetland	2383365	54.79	54.79	35107	0.81		0.81							Type 2	PEMC	WM	Freshwater Meadow	Lies within existing right-of-way
	1109+20	Barney Fry Creek	n/a	n/a	0.00	0	0.00									N/A	R2U		Riverine	Listed for Informational Purposes

Note: It is herein assumed that wetlands within the right-of-way are likely to be disturbed.
Note: Wetland Impacts were based on data from the United State Fish & Wildlife Service National Wetlands Inventory



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LICENSED PROFESSIONAL ENGINEER LIC NO. DATE

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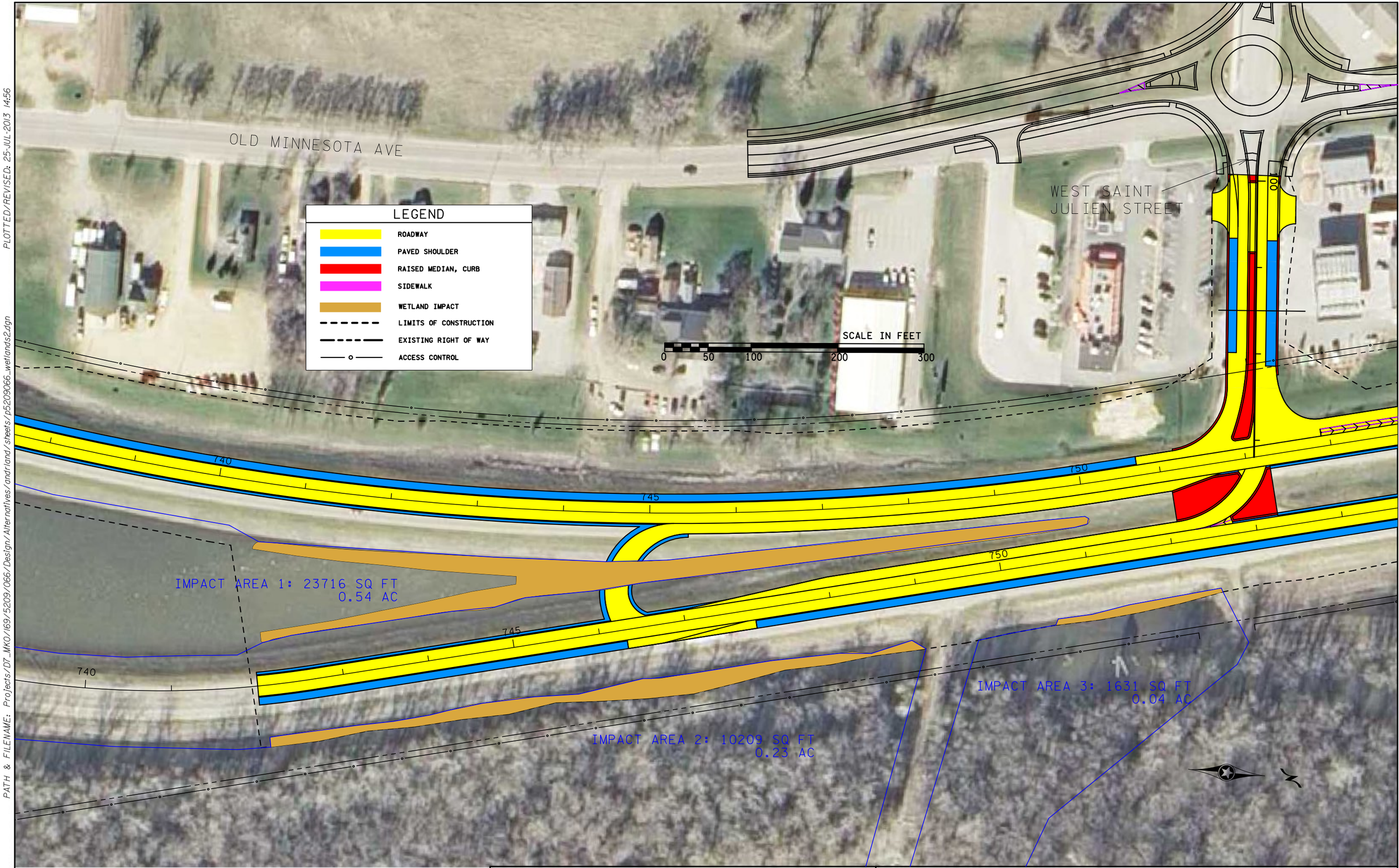

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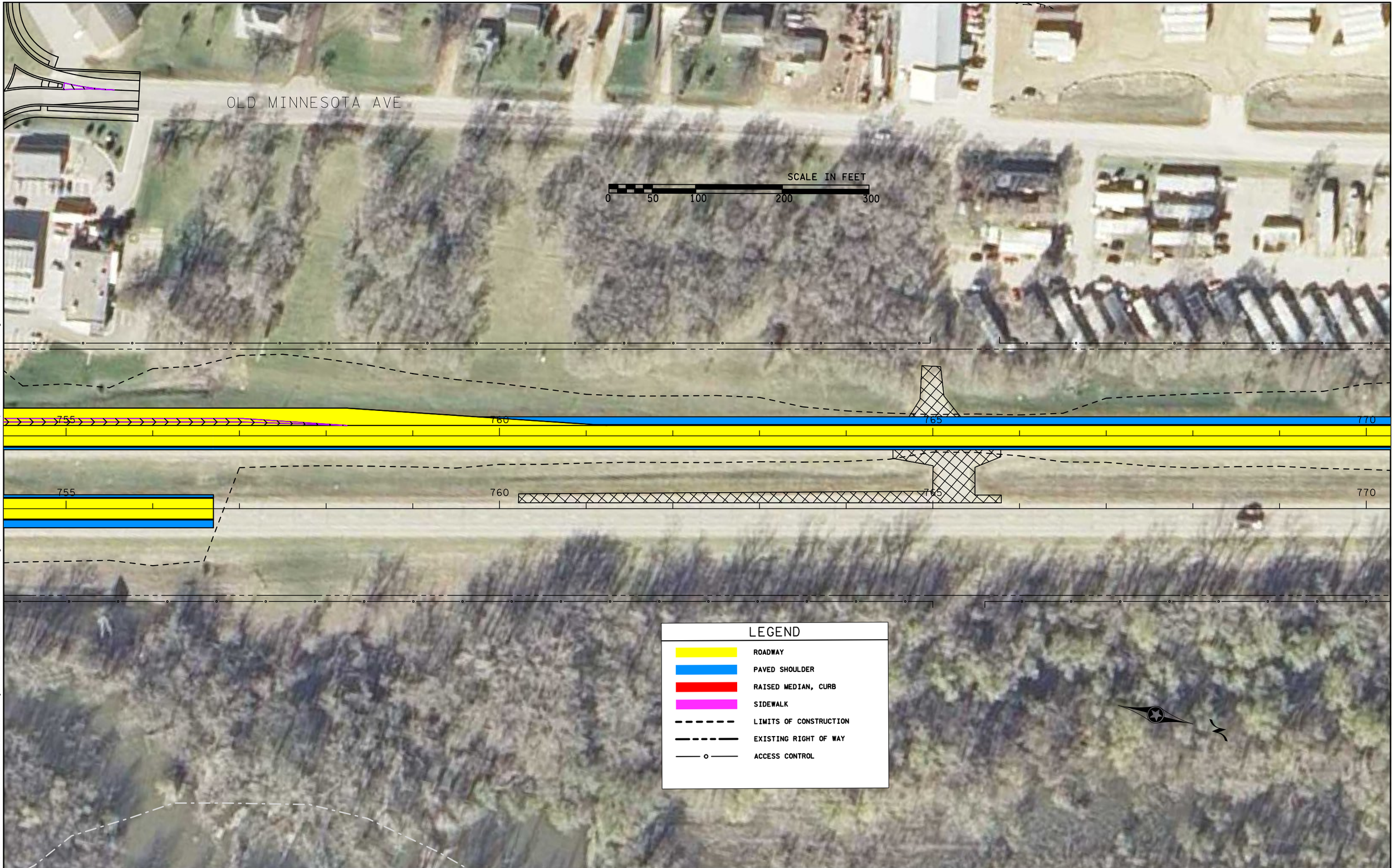

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ACCESS CONTROL, GRADE RAISE & OVERLAY

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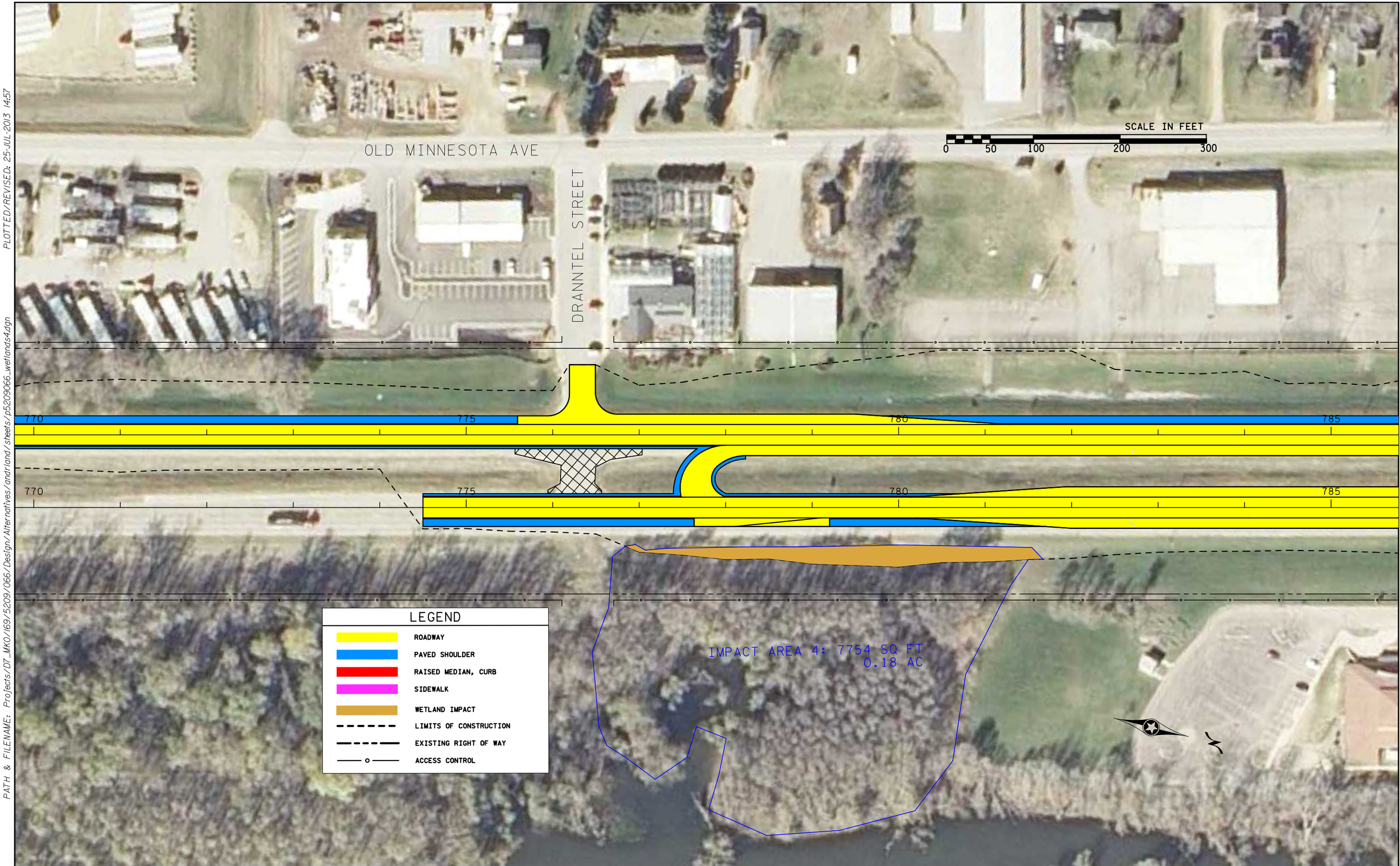

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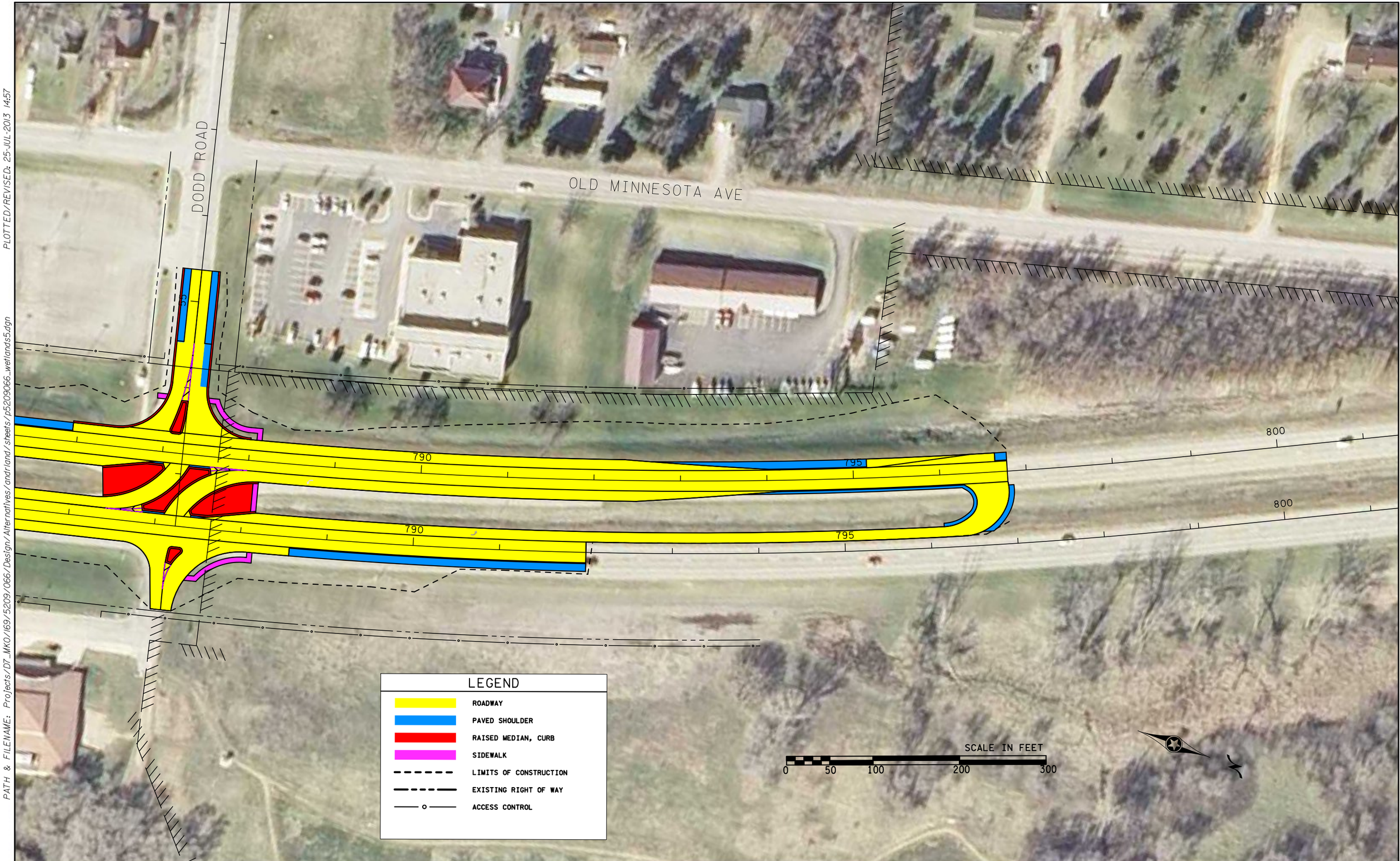

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INTERSECTION REVISION, GRADE RAISE & OVERLAY

STATE PROJ. NO. 5209-66 (TH 169) SHEET NO. 5 OF 11 SHEETS

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CROSSOVER REVISION, MILL & OVERLAY

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MILL & OVERLAY

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MILL & OVERLAY

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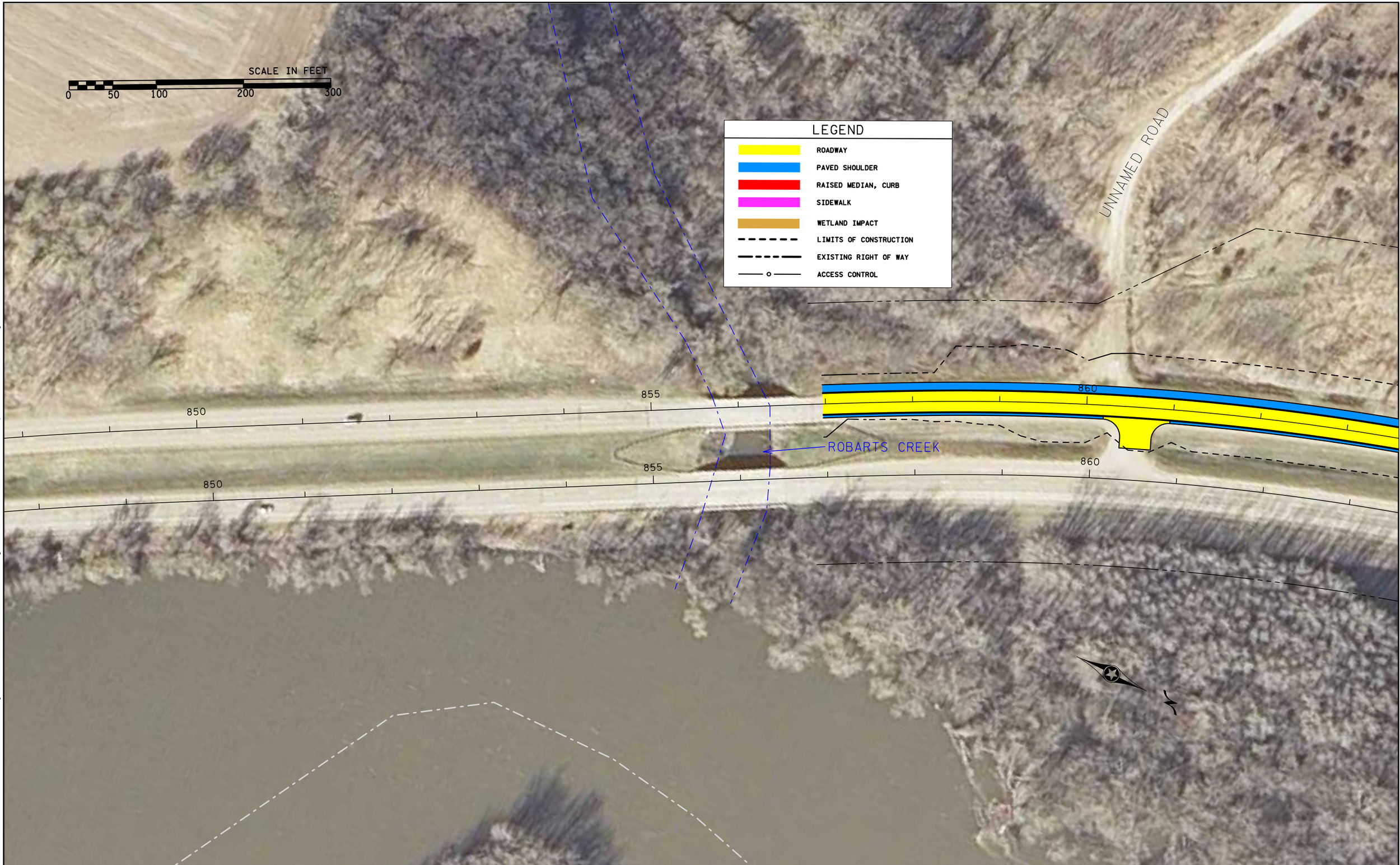

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MILL & OVERLAY, GRADE RAISE & OVERLAY

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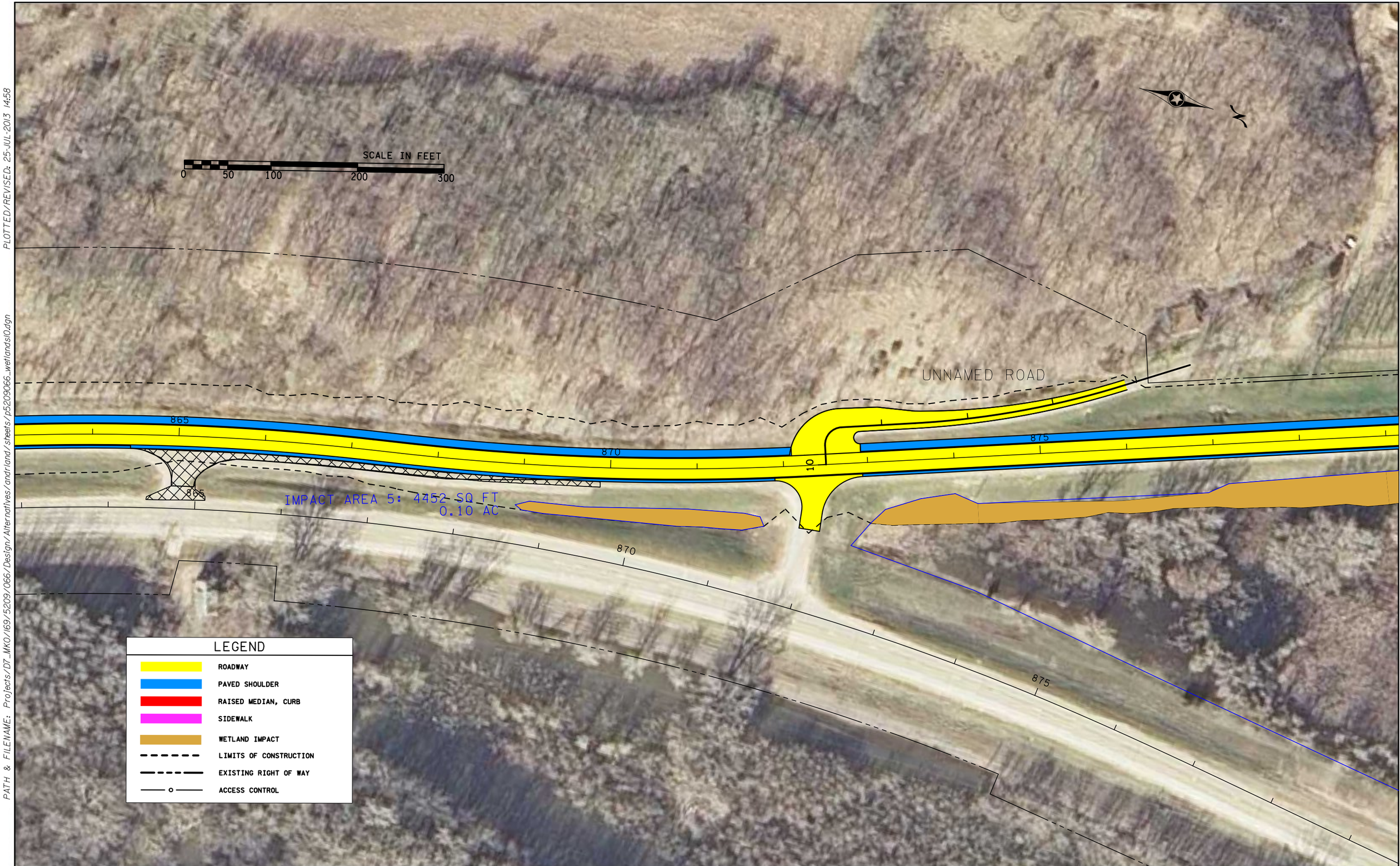

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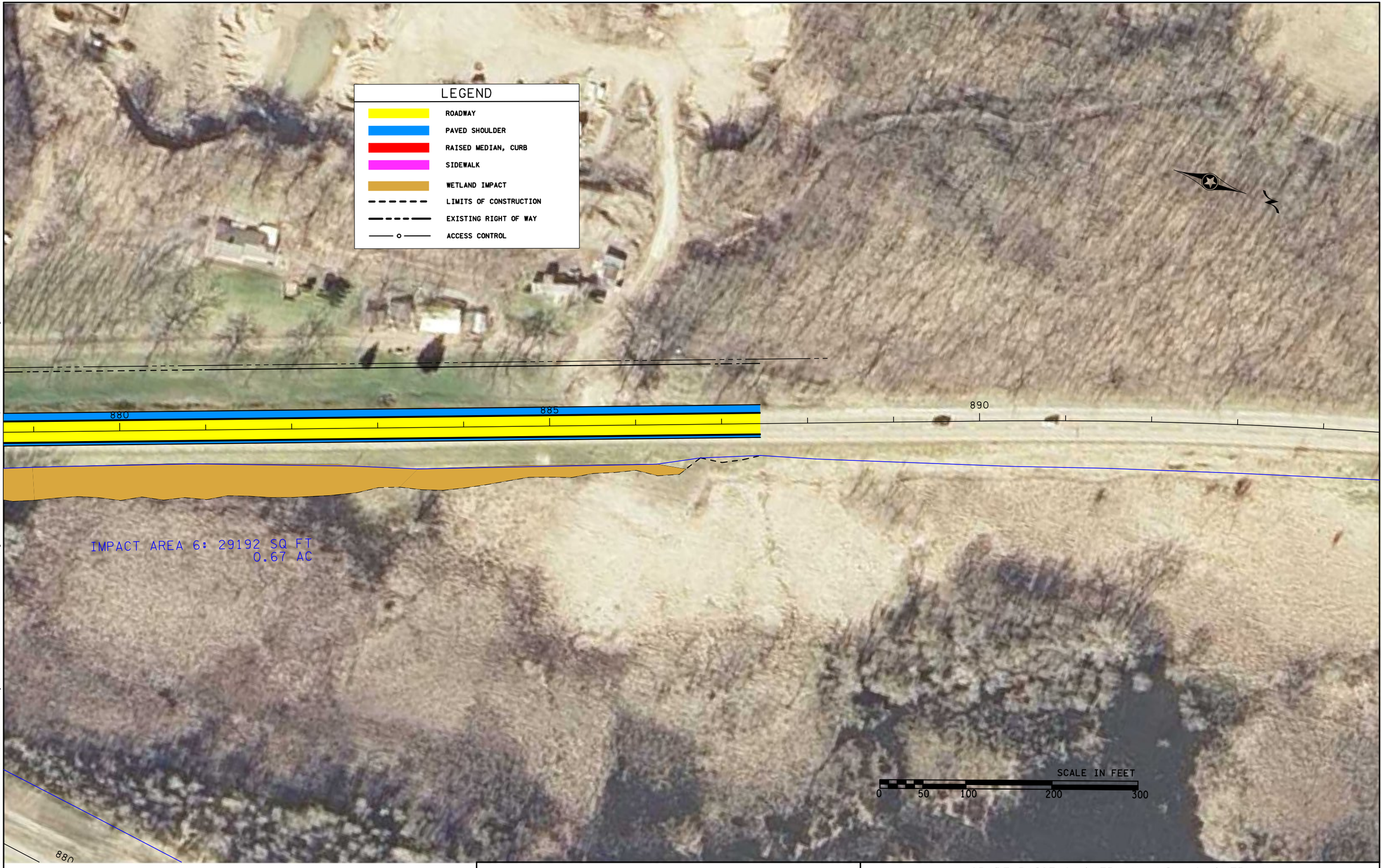

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