

Information for File # 2014-04166-TJH

Applicant: Kanabec County Public Works

Corps Contact: Tom Hingsberger

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Phone: (651) 290-5367

Primary County: Kanabec

Section: Sec. 30

Township: 42N

Range: 22W

Information Complete On: November 20, 2014

Posting Expires On: January 15, 2015

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. Our jurisdictional review could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above.

Project Includes: Road reconstruction to include subgrade excavation, muck excavation, ditch grading, widening, culvert installations, and aggregate resurfacing.

PROJECT DESCRIPTION AND PURPOSE: The applicant proposes to discharge fill material into portions of 19 wetland basins in conjunction with the reconstruction of 350th Avenue and Rainbow Street, from the Snake River State Forest to 340th Avenue in Kroschel Township, Kanabec County, Minnesota. The work would be conducted along 2.2 miles of 350th Avenue and Rainbow Street for the purpose of improving structural capacity and roadway geometry that does not meet current design standards. Portions of the existing road that are susceptible to settlement, frost boils, and flooding would be

reconstructed, and the project would provide for wider shoulders and flatter inslopes to lessen the severity of run-off-the-road accidents.

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: The project would result in the permanent loss of approximately 2.85 acres of wetlands that are part of the tributary system of the Snake River. Fill material would be permanently discharged into Wetland Basins 1 and 2, and into Wetland Basins 4 through 19, at the locations shown on the attached drawings. The wetland types and vegetative communities that would be permanently filled are: 1.27 acres of Type 2 Sedge Meadow wetlands; 0.21 acre of Type 2 Fresh (Wet) Meadow wetlands; 1.30 acres of Type 6 Shrub Swamp wetlands; and 0.07 acre of Type 7 Wooded Swamp wetlands.

Additionally, temporary wetland impacts totaling approximately 1.79 acres would result from grading activities to remove vegetation and topsoil from existing ditch backslopes and from embankment toe areas in Wetland Basins 1 through 19. Stockpiled native topsoil would be used to restore the temporary wetland impact areas to preconstruction contours following project completion.

ALTERNATIVES CONSIDERED: The no action alternative does not address structural deficiencies in the existing roadway that have resulted from many years of frost boil damage and settlement. A realignment to avoid wetland impacts is not practical due to the presence of wetlands in the project area, right-of-way availability, and accessibility. The preferred alternative would utilize the existing roadway which would be rehabilitated and widened in accordance with current township road construction standards. Inslopes along wetland areas would be steepened from 4:1 (horizontal:vertical) to 3:1 to minimize wetland impacts.

COMPENSATORY MITIGATION: Compensatory mitigation for the permanent loss of 2.85 acres of wetlands would be provided via a wetland credit withdrawal from the Minnesota Local Government Road Wetland Replacement Program.

Drawings See attached.

MINNESOTA DEPARTMENT OF TRANSPORTATION

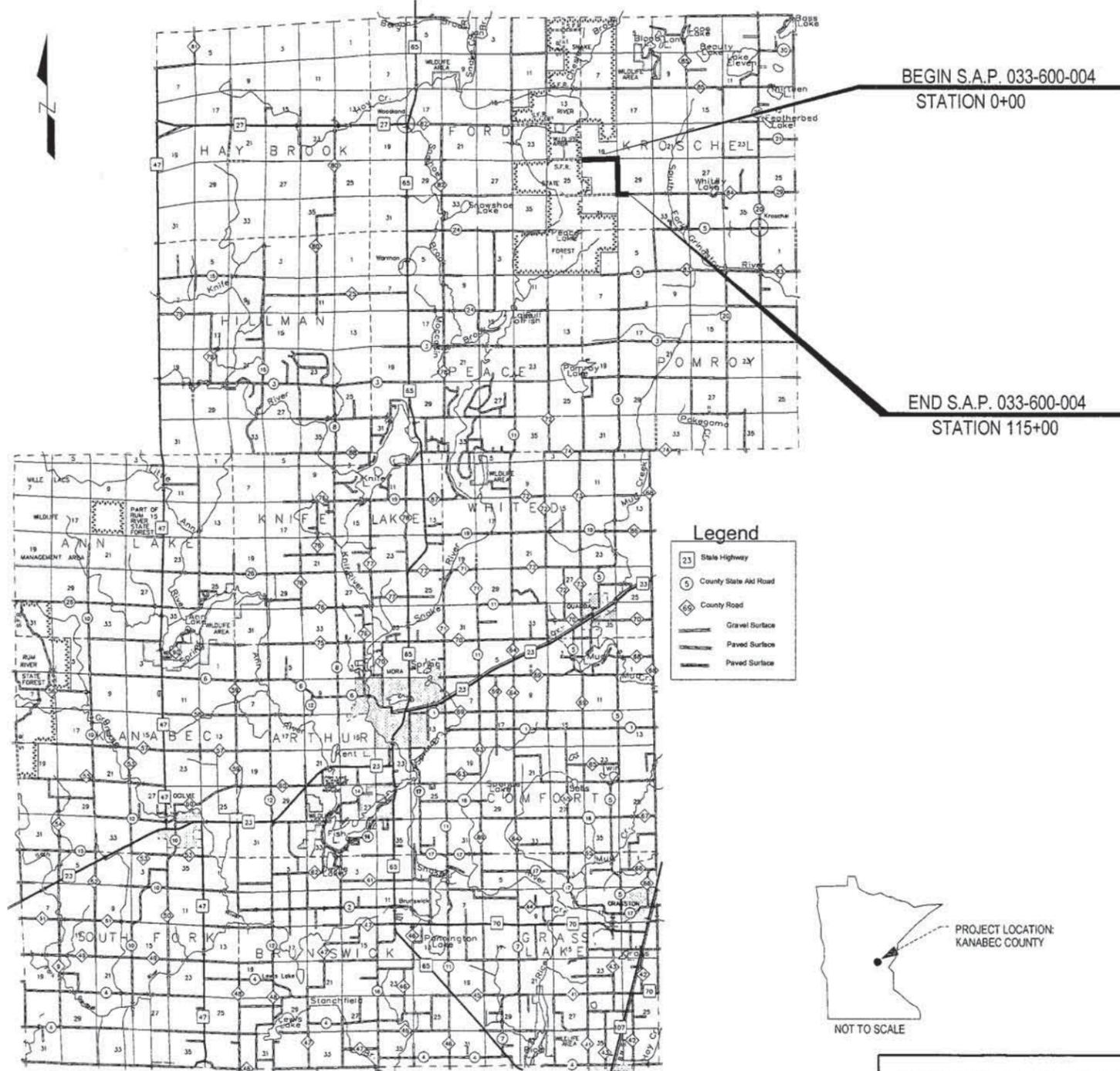
COUNTY OF KANABEC

CONSTRUCTION PLAN FOR TREE CLEARING
 LOCATED ON KROSCHER TWP. ROADS: 350TH AVE., RAINBOW ST. & 340TH AVE. ~ 17 MILES NORTH OF QUAMBA
 FROM ONE MILE WEST OF THE INTERSECTION OF 350TH AVE. & RAINBOW ST. ~ NW COR. SEC 30, T.42 N., R.22 W.
 TO 650 FEET EAST OF THE INTERSECTION OF RAINBOW ST & 340TH AVE. ~ NE COR. SEC 33, T.42 N., R.22 W.

PLAN SYMBOLS

COUNTY LINE	=====
TOWNSHIP OR RANGE LINE	-----
SECTION LINE	-----
QUARTER LINE	-----
SIXTEENTH LINE	-----
TEMPORARY EASEMENT	-----
EXISTING RIGHT OF WAY	-----
PROPOSED RIGHT OF WAY	-----
PROPERTY LINE	-----
RIVER OR CREEK	~~~~~
DRAINAGE DITCH	~~~~~
BRIDGE	-----
FENCE LINE	-----
EXISTING CULVERT	-----
PROPOSED CULVERT	-----
TREE LINE	-----
DECIDUOUS TREE	●
CONIFEROUS TREE	●
BUSH OR SHRUB	●
SIGN	○
SWAMP OR MARSH	⊖
MONUMENT	●
IRON PIPE	●
BENCHMARK	●
HORIZONTAL CONTROL	●
POWER POLE	○
LIGHT POLE	○
GUY WIRE	○
CABLE PEDISTAL	○
ELECTRIC	○
TELEPHONE	○
OVERHEAD ELECTRIC	○

STATE AID PROJ. NO.	033-600-003	
GROSS LENGTH	11,500.00 FEET	2.178 MILES
BRIDGES-LENGTH	FEET	MILES
EXCEPTIONS-LENGTH	FEET	MILES
NET LENGTH	11,500.00 FEET	2.178 MILES



MINN. PROJ. NO. _____

GOVERNING SPECIFICATIONS

THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE 2014 EDITION OF THE "MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

INDEX	
SHEET	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF QUANTITIES, TABULATIONS
3-4	SWPPP
5-7	PLAN SHEETS

THIS PLAN CONTAINS 7 SHEETS

DESIGN DESIGNATION - TIER NO.

PRES. ADT	<100	(2014)
PROJ. ADT	<100	(2024)
PROJ. HCADT	<100	(2024)
ESAL		
R-VALUE	12	
SOIL FACTOR	130%	
FUNCTIONAL CLASS.	LOCAL	
DESIGN		
SHOULDER WIDTH	1 FOOT	
NO. OF TRAFFIC LANES	2 - 11 FOOT LANES	
NO. OF PARKING LANES	NA	
DESIGN SPEED	30	
BASED ON	STOPPING SIGHT DISTANCE	
HEIGHT OF EYE	3.5 FEET	
HEIGHT OF OBJECT	2.0 FEET	
DESIGN SPEED NOT ACHIEVED AT		

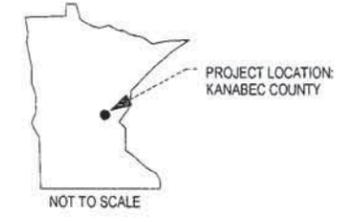
STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING _____ DATE _____

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

COUNTY ENGINEER _____ CHAD T. GRAMENTZ

COUNTY _____ KANABEC

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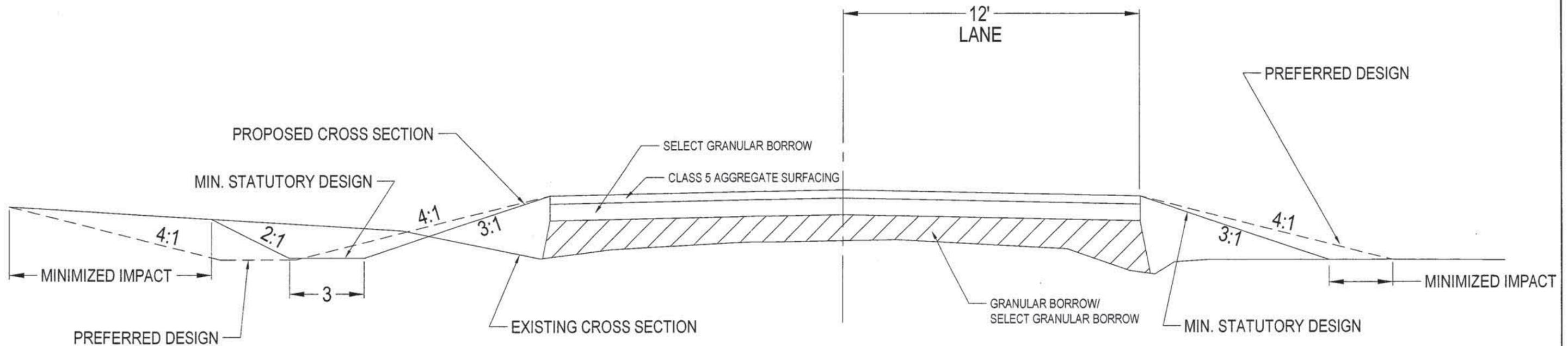
PLAN _____ 50'

WETLAND IMPACTS

SAP 033-600-003

KROSCHER TOWNSHIP, 340TH AVE, RAINBOW ST, & 350TH AVE.

Wetland Identifier	Side	Sec, Twp, Range	Plant Community	NWI Class.	Stationing (Proposed CL)		Permanent Impact (in Acres)	Temp. Impact (in Acres)
W-1	L	19, T42N, R22W	OBL	PEM/SS1C	11+20	17+84	0.200	0.115
W-2	R	30, T42N, R22W	OBL	PSS1C	10+82	18+50	0.221	0.175
W-3	R	30, T42N, R22W	OBL/FACW	PEMB	19+50	20+65		
W-4	L	19, T42N, R22W	OBL/FACW	PF01B	22+65	25+90	0.068	0.069
W-5	R	30, T42N, R22W	OBL	PEMB	22+86	26+90	0.091	0.091
W-6	L	19, T42N, R22W	OBL	PEMF	35+20	39+10	0.120	0.071
W-7	R	30, T42N, R22W	OBL	PEMC	35+10	38+86	0.134	0.083
W-8	L	19, T42N, R22W	OBL	PEMC	39+97	42+49	0.046	0.058
W-9	R	30, T42N, R22W	OBL/FACW	PEMC	39+78	49+47	0.046	0.037
W-10	L	19, T42N, R22W	OBL	PEMF	46+06	51+72	0.128	0.129
W-11	R	30, T42N, R22W	OBL	PEMC	47+54	51+39	0.110	0.087
W-11A	L/R	29&30, T42N, R22W	OBL	PEMC	55+89	56+90	0.082	0.013
W-12	L/R	29&30, T42N, R22W	OBL	PSS1C	66+66	69+02	0.107	0.043
W-13	R	30, T42N, R22W	OB	PEMC/PSS1C	73+19	82+53	0.265	0.201
W-14	L	29, T42N, R22W	OBL	PSS1C	73+91	81+95	0.181	0.165
W-15	R	30, T42N, R22W	OBL	PEMFb/PSS1C	87+42	95+96	0.347	0.174
W-16	L	29, T42N, R22W	OBL	PEMFb/PSS1C	86+90	93+74	0.175	0.119
W-17	R	30, T42N, R22W	OBL	PEM/SS1C	102+03	108+28	0.231	0.112
W-18	L	29, T42N, R22W	OBL	PEM/SS1C	102+33	111+82	0.221	
W-19	R	32, T42N, R22W	OBL	PEM/SS1B	108+49	111+54	0.075	0.046
Totals (in Acres):							2.848	1.787



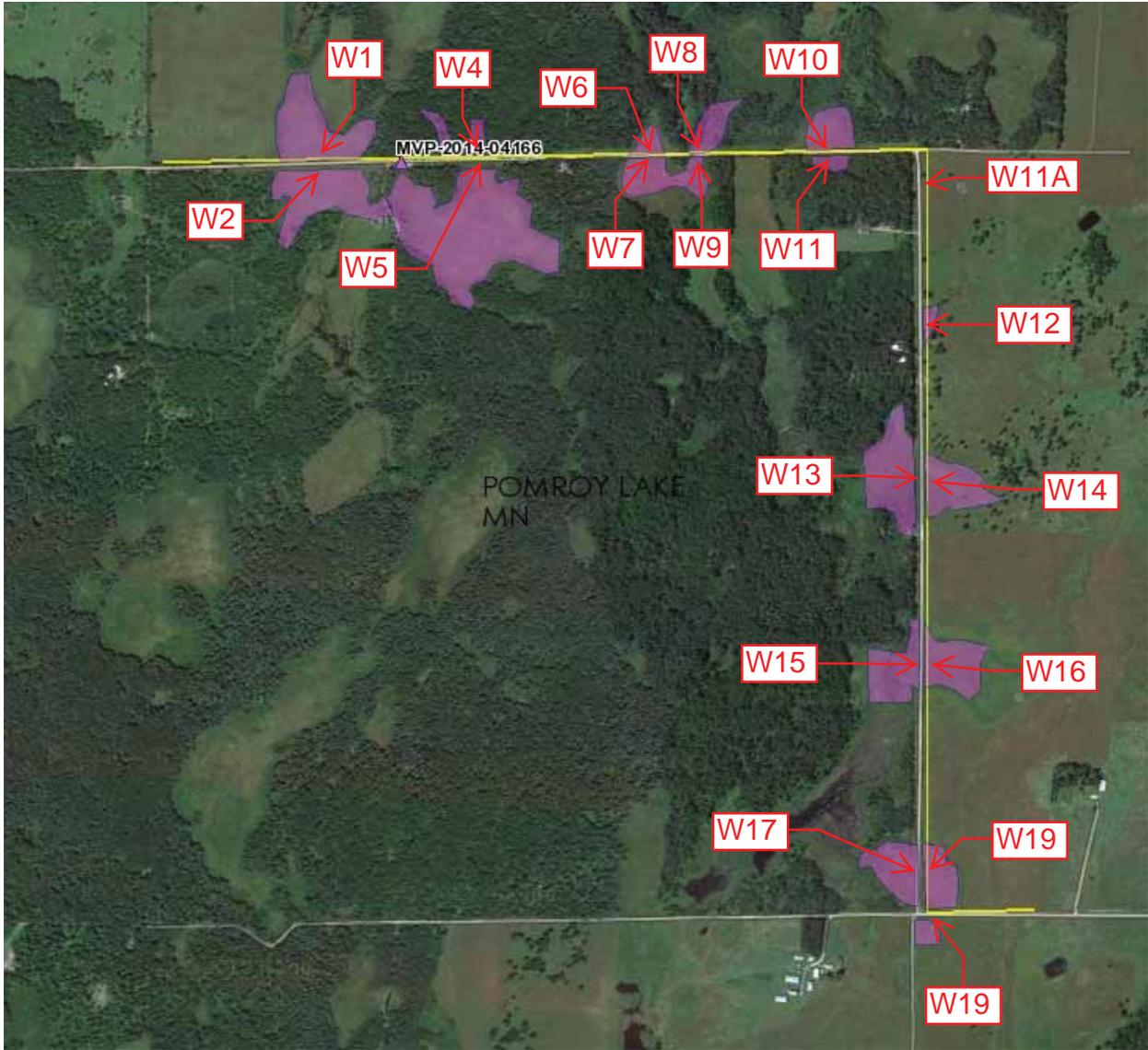
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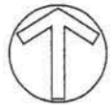
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STATE AID PROJ. NO. SAP 033-600-003

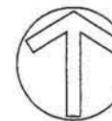
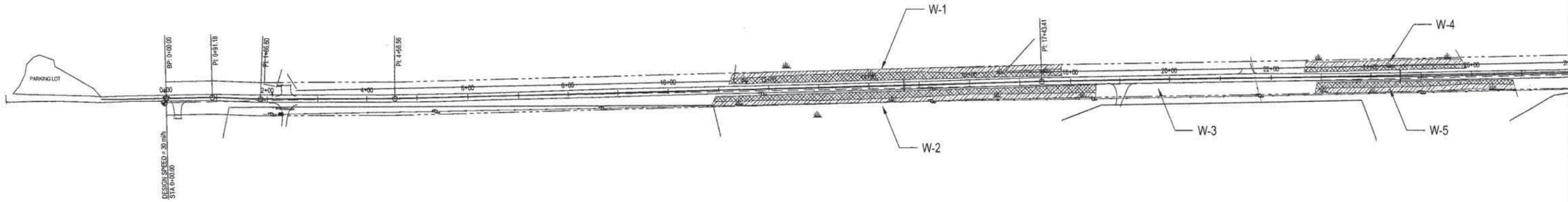
SHEET NO. 1 OF 3 SHEETS

Wetland Impact Locations

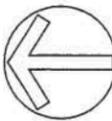
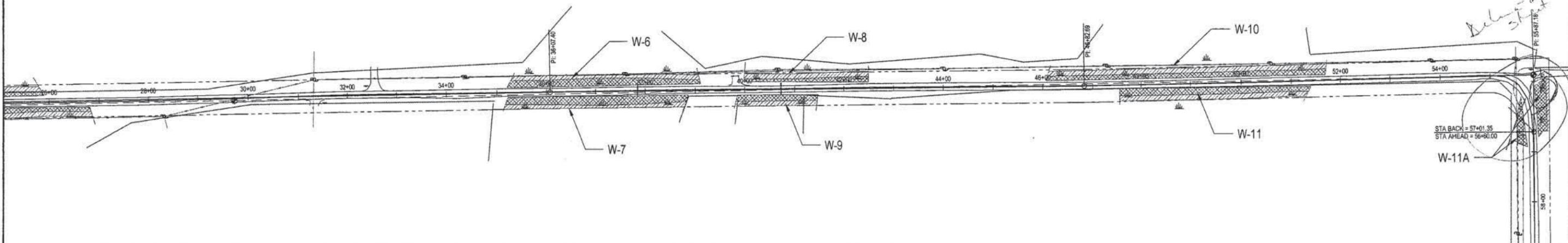




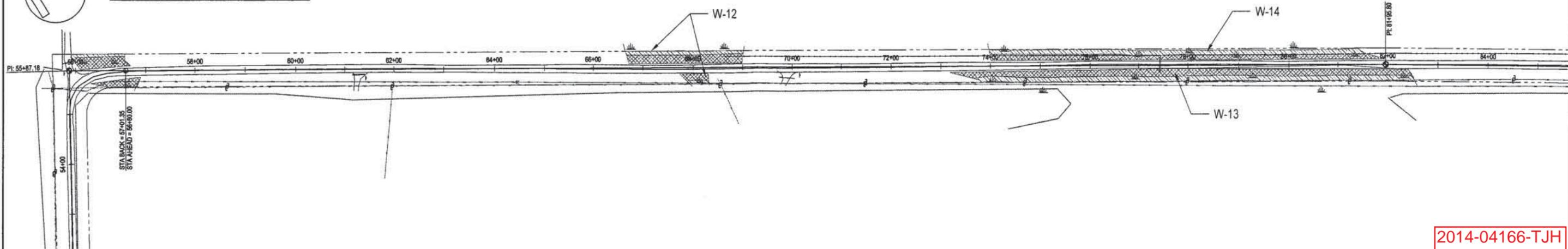
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0 200 400 Feet



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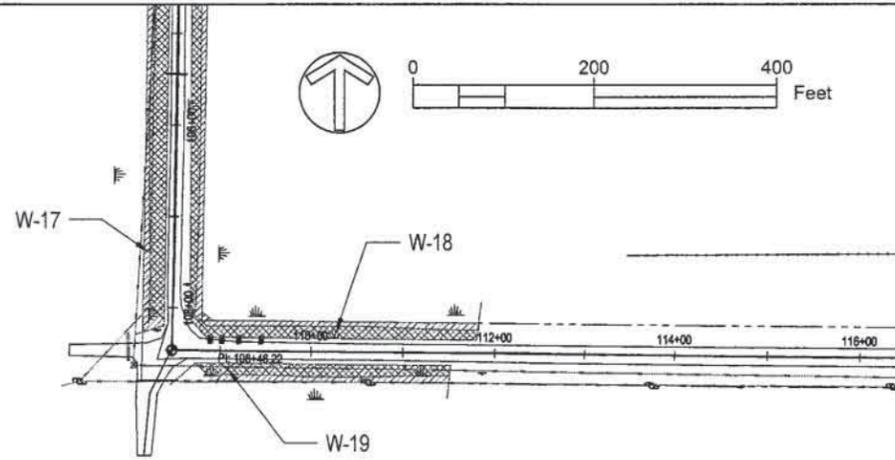
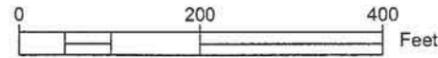
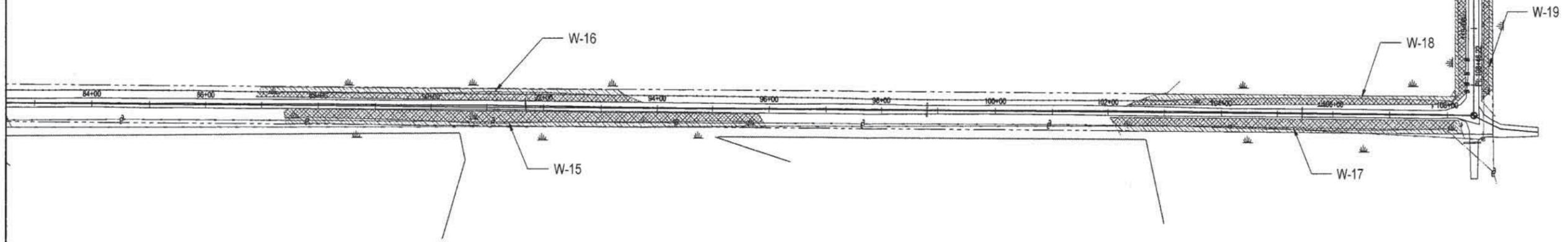
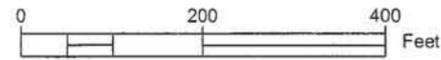
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SHEET NO. 2 OF 3 SHEETS



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SHEET NO. 3 OF 3 SHEETS

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