



US Army Corps  
of Engineers  
St Paul District

APPLICANT: Minnesota Department of  
Transportation

# Public Notice

ISSUED: April 10, 2024

EXPIRES: April 25, 2024

REFER TO: MVP-2022-02192-JMK

SECTION: 404 - Clean Water Act

1. APPLICATION FOR PERMIT TO discharge dredged and fill material into 3.36 acres of wetlands, 3,444 linear feet (0.79 acre) of tributaries, 9.76 acres of linear ditches, and 0.55 acre of stormwater ponds for the purpose of improving Trunk Highway (TH) 22 in Blue Earth and LeSueur Counties.

## 2. SPECIFIC INFORMATION

### AGENT

Rebecca Novak  
Minnesota Department of Transportation  
2151 Bassett Drive  
Mankato, Minnesota 56001

PROJECT LOCATION: The project site is located in Sections 33, 34, 28, 21, 16, 9, and 4 Township 109 North, Range 26 west and Sections 33 and 28, Township 110 North, Range 26 West, Blue Earth and LeSueur Counties, Minnesota. Latitude 44.24368 Longitude -93.95646

DESCRIPTION OF PROJECT: Minnesota Department of Transportation is proposing to reconstruct 8.25 miles of roadway including the installation of turn lanes, consolidation of driveways to allow for larger turn movement gaps, intersection improvements (continuous T, roundabouts, frontage roads to accommodate consolidated driveways, etc.) and appropriate drainage work to account for widened roadway and realigned driveways and crossroads. In addition to the roadway improvements, a 10-foot-wide bituminous trail would be constructed adjacent to the east of the existing roadway.

QUANTITY, TYPE, AND AREA OF FILL: The project would result in the permanent discharge of fill material into 6.35 acres of linear ditches, 2.64 acres of wetlands, 0.09 acre of stormwater ponds and 3,444 linear feet (0.79 acre) of tributaries; the temporary discharge of fill material into 0.06 acre of linear ditches, 0.04 acre of wetlands, and 0.32 acre of stormwater ponds; and the excavation of 2.83 acres of linear ditches, 0.68 acre of wetlands, and 0.13 acre of stormwater ponds. The table below lists the sizes and types of aquatic resource impacts:

Impact Table			
Aquatic Resource Type	Temporary Impacts	Permanent Cut Impacts	Permanent Fill Impacts
Wetland	0.04 acre	0.68 acre	2.64 acres
Tributaries	0.00 acre	0.00 acre	3,444 linear feet (0.79 acre)
Wet Ditch	0.06 acre	2.83 acres	6.35 acres
Stormwater Pond	0.32 acre	0.13 acre	0.09 acre

**VEGETATION IN AFFECTED AREA:**

3.36 acres of impacts are proposed to wetlands: (0.60 acre of seasonally flooded basin (Type 1), 2.52 acres of Fresh wet meadow (Type 2), 0.10 acre of shallow marsh (Type 3), 0.10 acre of deep marsh (Type 4), 0.03 acre of shrub-carr (Type 6), and 0.01 acre of hardwood swamp (Type 7)),

9.24 acre of impacts are proposed to linear ditches: (0.40 acre of Type 1, 8.10 acres of Type 2, 0.63 acre of Type 3, and 0.10 acre of Type 6).

0.54 acre of impacts are proposed to stormwater ponds: (0.22 acre of Type 2, 0.12 acre of Type 3, 0.09 acre of Type 4, and 0.10 acre of Type 7).

**SOURCE OF FILL MATERIAL:** All fill material utilized for the project would be generated on site or would be obtained from a licensed commercial source.

**SURROUNDING LAND USE:** The surrounding land use consists primarily of agriculture with interspersed residential.

**DESCRIPTION OF STRUCTURE:** TH 22 is an existing roadway that would be improved to increase safety of the traveling public, please reference the DESCRIPTION OF PROJECT for more details pertaining to the various structures associated with the safety improvements. Additionally, a 10-foot-wide bituminous trail with 1:3.5 side slopes would be constructed mainly along the eastern portion of the project corridor.

**DESCRIPTION OF DREDGING OR EXCAVATION:** Excavation and grading is expected as a part of the roadway improvements and trail construction.

**THE FOLLOWING POTENTIALLY TOXIC MATERIALS COULD BE USED AT THE PROJECT SITE:** There are no toxic materials associated with the project.

**THE FOLLOWING PRECAUTIONS TO PROTECT WATER QUALITY HAVE BEEN DESCRIBED BY THE APPLICANT:** The applicant would be required to apply for and receive an Individual Section 401 Water Quality Certification, National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) Permit from the Minnesota Pollution Control Agency (MPCA) as well as create a Stormwater Pollution Prevention Plan (SWPPP) that would be used to comply with MPCA's erosion control and storm water BMPs. The appropriate BMPs would be utilized during construction and periodically inspected after qualifying rainfall events.

**MITIGATION:** The applicant proposes to fulfill federal compensatory wetland mitigation requirements by utilizing wetland mitigation bank credits from MnDOT's credit holdings.

**3. FEDERALLY LISTED THREATENED OR ENDANGERED WILDLIFE OR PLANTS OR THEIR CRITICAL HABITAT**

MnDOT Office of Environmental Stewardship reviewed the project on behalf of Federal Highways Administration (FHWA) for compliance with Section 7 of the ESA.

Northern Long-Eared Bat

Hibernates in caves and mines – swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests during spring and summer.

Monarch Butterfly

Native prairie habitat with milkweed.

This application is being coordinated with the U.S. Fish and Wildlife Service. Any comments it may have concerning Federally listed threatened or endangered wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

#### 4. JURISDICTION

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

#### 5. SECTION 401 WATER QUALITY CERTIFICATION

Valid Section 404 permits cannot be issued for any activity unless water quality certification for the activity is granted or waived pursuant to Section 401 of the Clean Water Act. The Section 401 authority for this project is the Minnesota Pollution Control Agency (MPCA). A Department of the Army permit will not be granted until the MPCA has issued or waived Section 401 WQC certification and the U.S. Environmental Protection Agency (USEPA) neighboring jurisdiction process is completed. Corps Section 404 Clean Water Act decisions may not be finalized until after the USEPA completes this process.

The MPCA has indicated that this public notice serves as its public notice of the application for Section 401 water quality certification under Minnesota Rules Part 7001 Section 401 of the Clean Water Act (33 U.S. Code 1341 (a)(1)). The MPCA has indicated that if, at a later date, it makes a preliminary anti-degradation determination regarding Section 401 Water Quality Certification, it will at that time plan to issue an additional public notice under Minnesota Rules Part 7001.

Any comments relative to MPCA's Section 401 Certification for the activity proposed in this public notice may be sent to:

Minnesota Pollution Control Agency  
Resource Management and Assistance Division  
Attention: 401 Certification  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194  
401Certification.PCA@state.mn.us

#### 6. HISTORICAL/ARCHAEOLOGICAL

This public notice is being sent to the National Park Service and the State Archaeologist for their comments. The Corps will review information on known cultural resources and/or historic properties within and adjacent to the project area. The Corps will also consider the potential effects of the project on any properties that have yet to be identified. The results of this review and the Corps' determination of effect will be coordinated with the State Historic Preservation Officer independent of this public notice. Any adverse effects on historic properties will be resolved prior to the Corps authorization, or approval, of the work in connection with this project.

MnDOT Cultural Resources Unit (CRU) reviewed the project on behalf of Federal Highways Administration (FHWA) for compliance with Section 106 of the NHPA.

## 7. PUBLIC HEARING REQUESTS

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, in detail, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided or if there is otherwise no valid interest to be served.

## 8. PUBLIC INTEREST REVIEW

The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. Environmental and other documents will be available for review in the St. Paul District Office.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

## REPLIES/COMMENTS

Interested parties are invited to submit to this office written facts, arguments, or objections by the expiration date indicated above. These statements should bear upon the suitability of the location and the adequacy of the project and should, if appropriate, suggest any changes believed to be desirable. Comments received may be forwarded to the applicant.

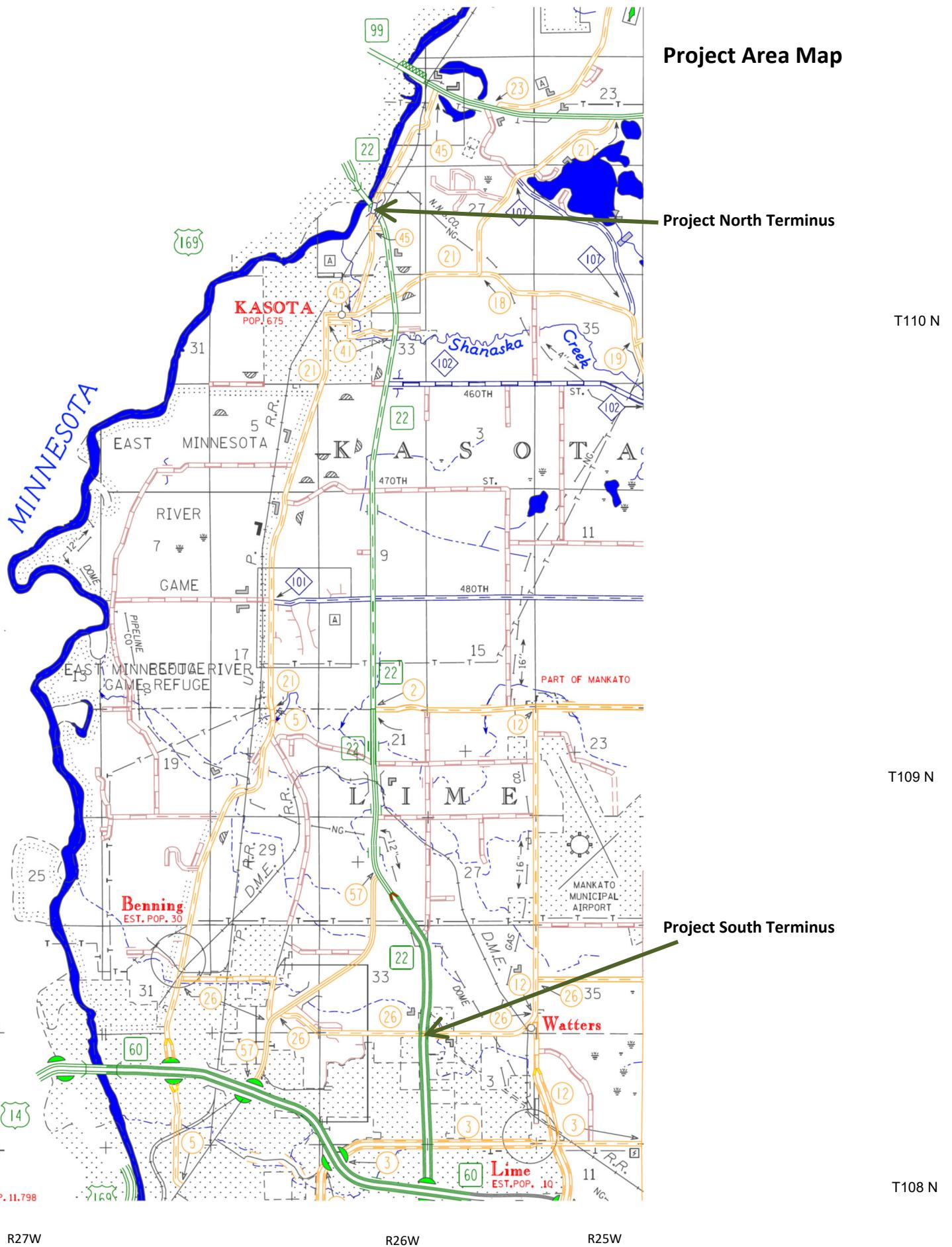
Replies may be sent to Jeremy Kinney at [Jeremy.m.kinney@usace.army.mil](mailto:Jeremy.m.kinney@usace.army.mil)

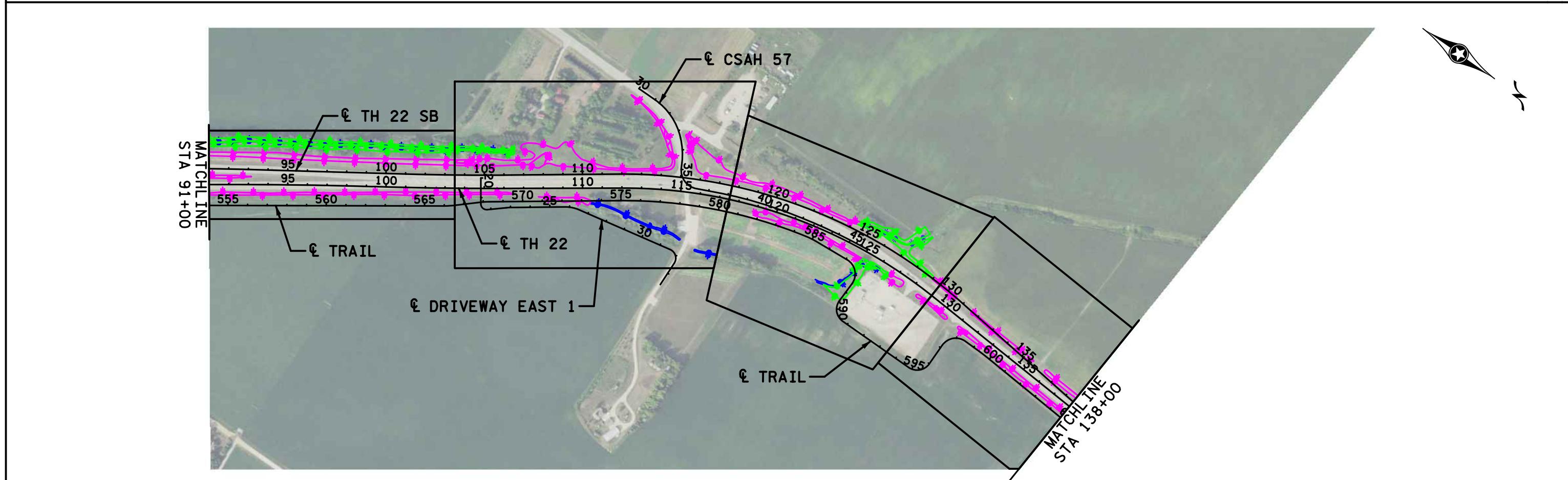
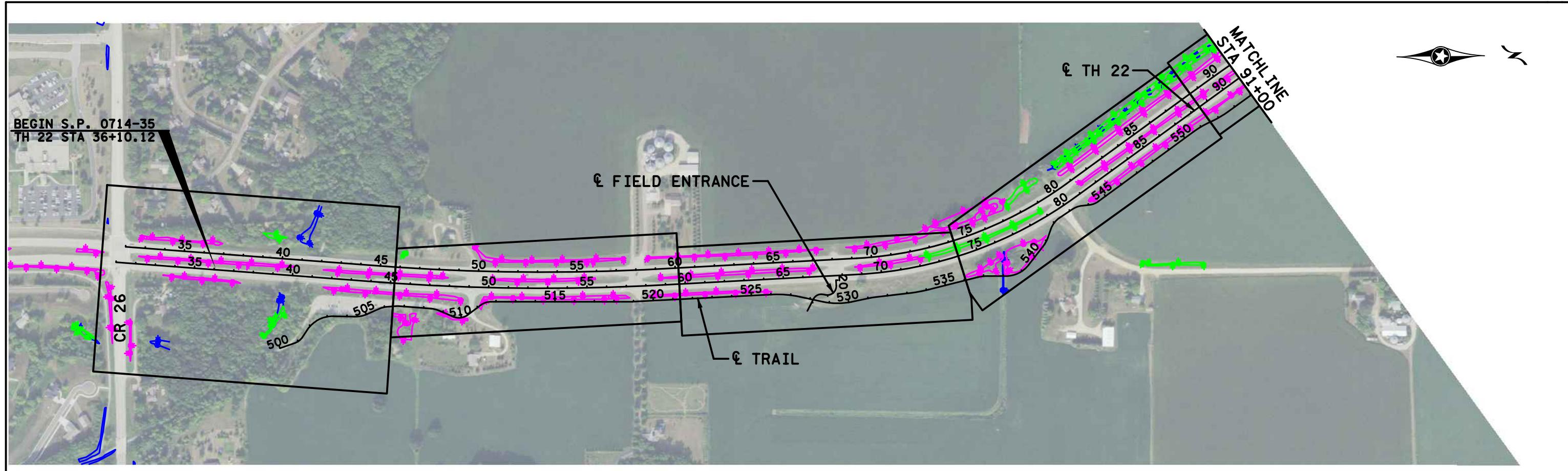
IF YOU HAVE QUESTIONS ABOUT THE PROJECT, contact Jeremy Kinney at the St. Paul District office at 651-443-1929.

To receive Public Notice notifications, go to: <https://www.mvp.usace.army.mil/Contact/RSS/> and subscribe to the RSS Feed for which you would like to receive Public Notices.

Enclosures:

Project Name and/or Number: SP 0714-35 TH 22 Mankato to St. Peter





3/28/2024

24:49:16 PM

mndot\_road\_v8\_TH22\_ML.tbl



P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\GDN\cd071435\_g1001.dgn



REV.

BY

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.

**ENGINEER SIGNATURE 1**

AMANDA BERGSTROM  
LIC. NO. 52674

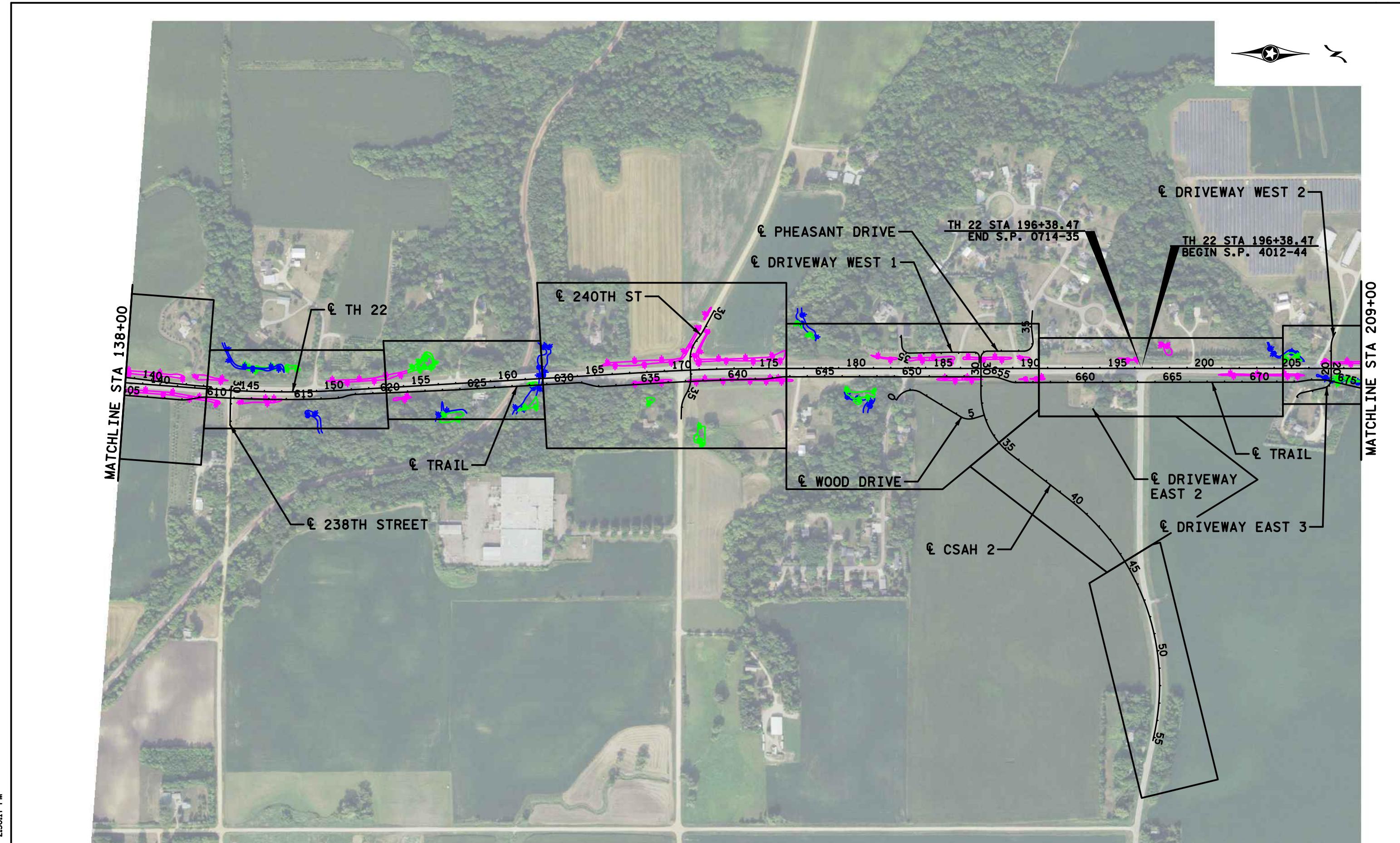
DATE 10-04-2023

DESIGNED  
DRAWN  
B.J.L./ARDB  
B.J.L./OLC

CHECKED  
ARDB/OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
AQUATIC RESOURCE  
OVERVIEW MAP

SHEET  
1  
OF  
30



USERNAME: 3/28/2024

P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\GDN\cd071435\_g1002.dgn



REV.

BY

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.

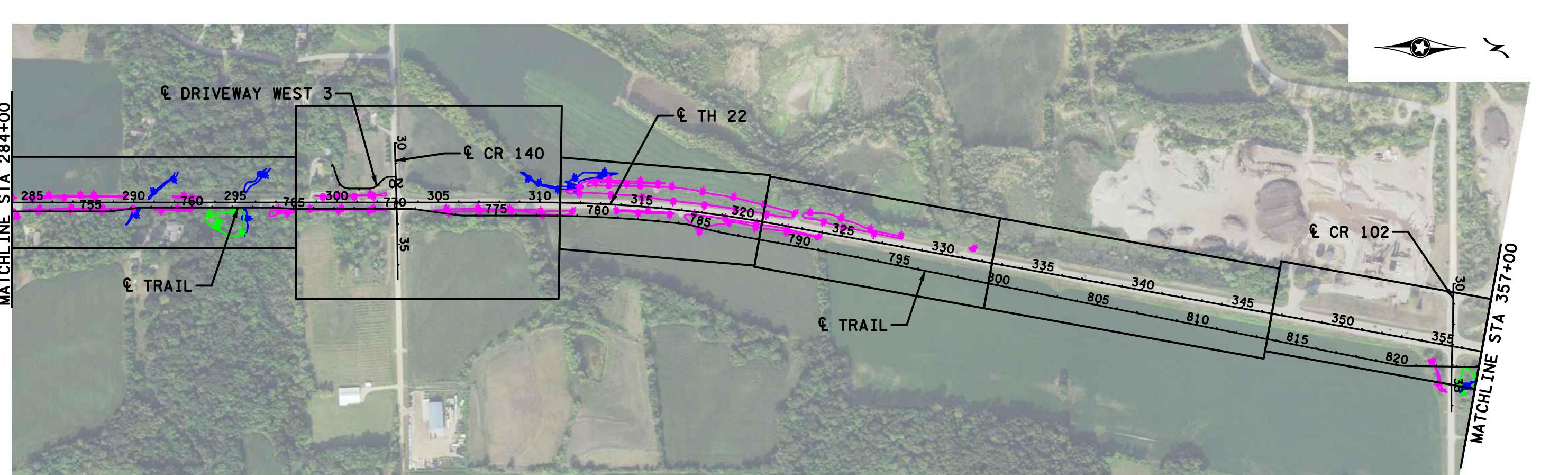
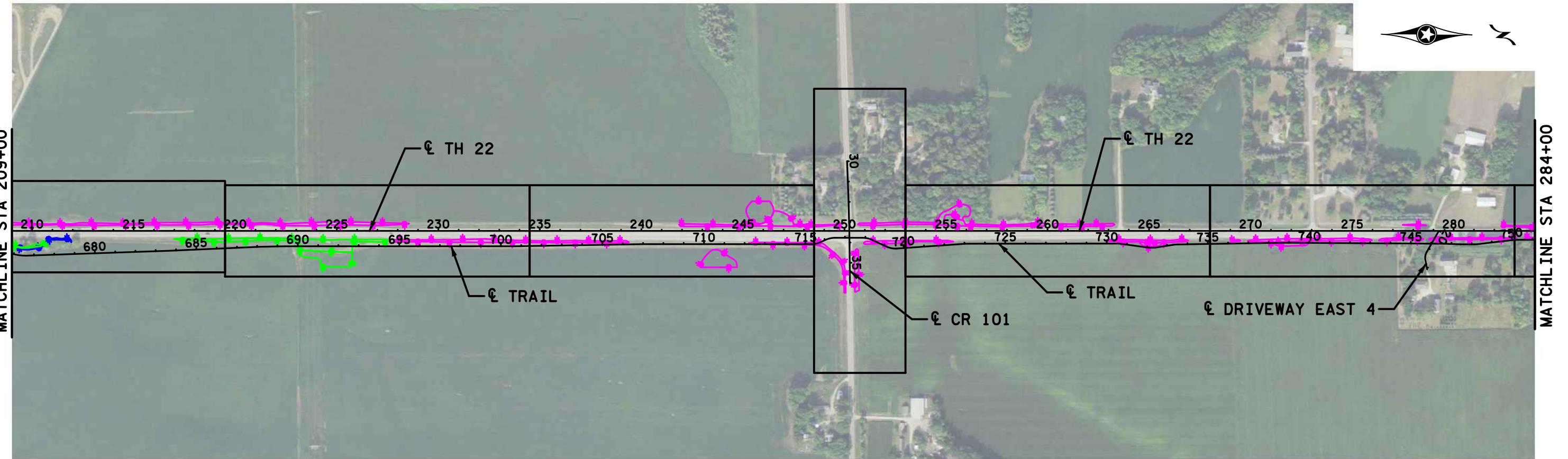
**ENGINEER SIGNATURE 1**

AMANDA BERGSTROM  
LIC. NO. 52674  
DATE 10-04-2023

DESIGNED  
DRAWN  
CHECKED  
BY J.L. ARDB  
J.L. OLC  
ARDB/OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
AQUATIC RESOURCE  
OVERVIEW MAP

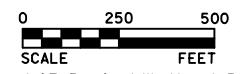
SHEET 2 OF 30



mndot\_road\_v8\_TH22\_ML.tbl

25043 PM

3/28/2024



P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\GDN\cd071435\_g1003.dgn



REV.

BY

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.

**ENGINEER SIGNATURE 1**

AMANDA BERGSTROM  
LIC. NO. 52674

DATE 10-04-2023

DESIGNED

BJL/ARDB

DRAWN

BJL/OLC

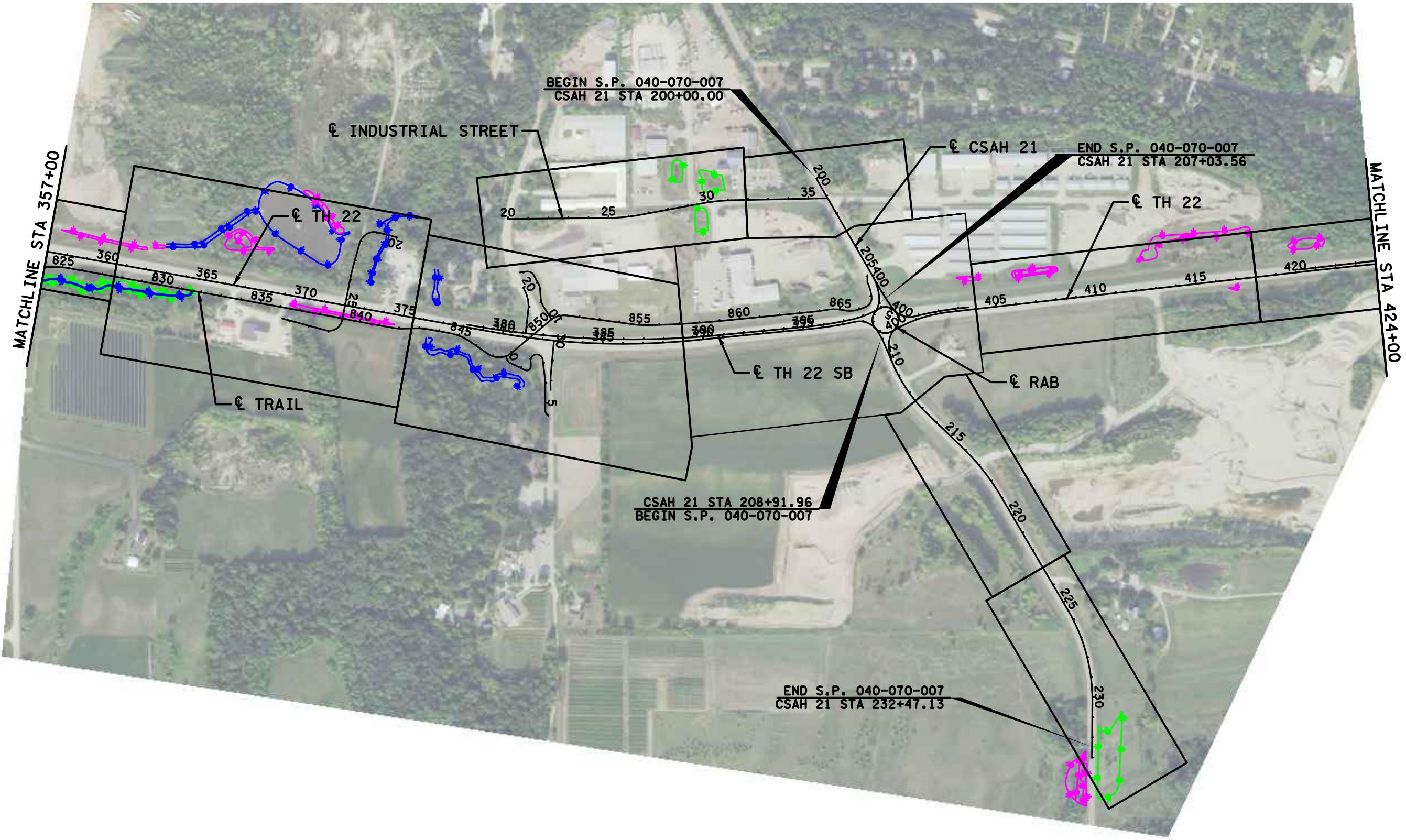
CHECKED

ARDB/OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007

T.H. 22 RECONSTRUCTION

AQUATIC RESOURCE  
OVERVIEW MAPSHEET  
3  
OF  
30



mndot\_road\_v8\_TH22\_ML.tbl

**PLTDRVSS**  
**2:51:30 PM**

\_USERNAME\_-  
3/28/2024

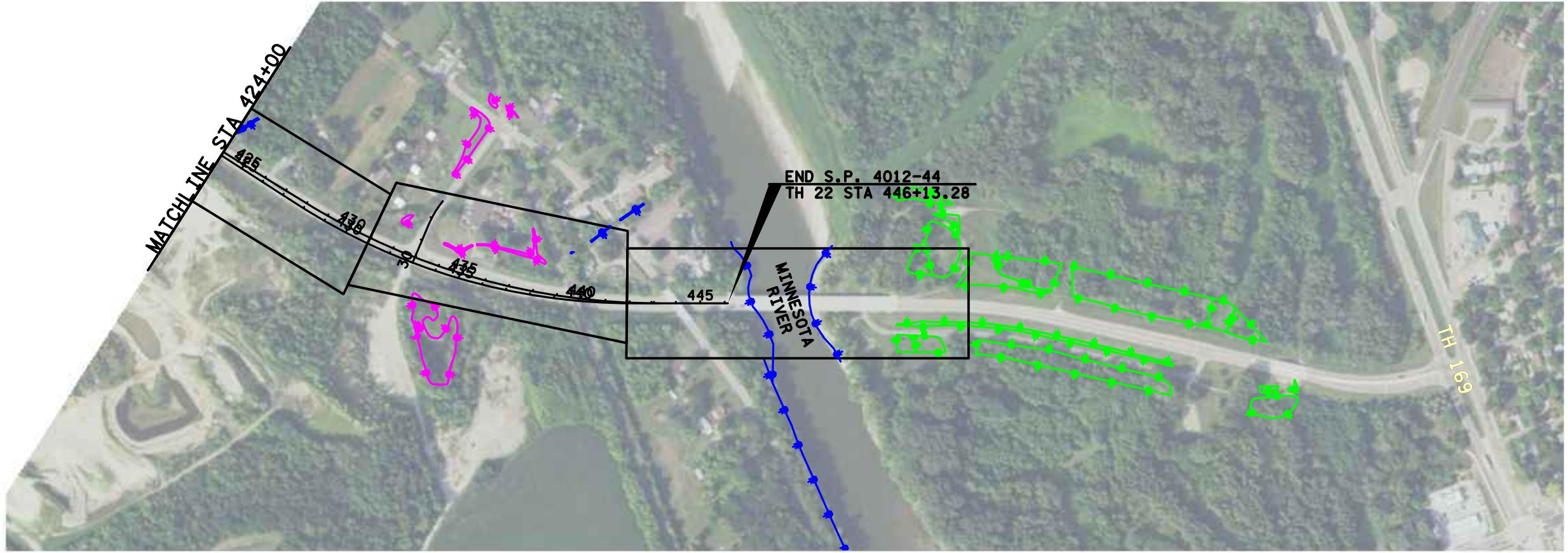
A scale bar at the bottom of the page shows a horizontal line with three tick marks. The first tick mark is labeled '0'. The second tick mark is labeled '250'. The third tick mark is labeled '500'. Below the line, the word 'SCALE' is on the left and 'FEET' is on the right.

**B R A N I**  
engineering

REV.	BY	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.		
			<b>ENGINEER SIGNATURE 1</b>		
			AMANDA BERGSTROM	LIC. NO.	DATE
			52674		10-04-2023

**S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007**  
**T.H. 22 RECONSTRUCTION**  
**AQUATIC RESOURCE**  
**OVERVIEW MAP**

SHEET  
4  
OF  
30



mndot\_road.v8.Th22.ML.tbl

\*PLTDRV\$\*  
25155 PM

3/28/2024

0 250 500  
SCALE FEET  
P:\2021.10.003 MnDOT TH 22 Mankato to St.Peter\03 Design\Wetland Permitting\DGN\cd071435\_g1005.dgn

**RANI**  
engineering

REV.

BY

DATE

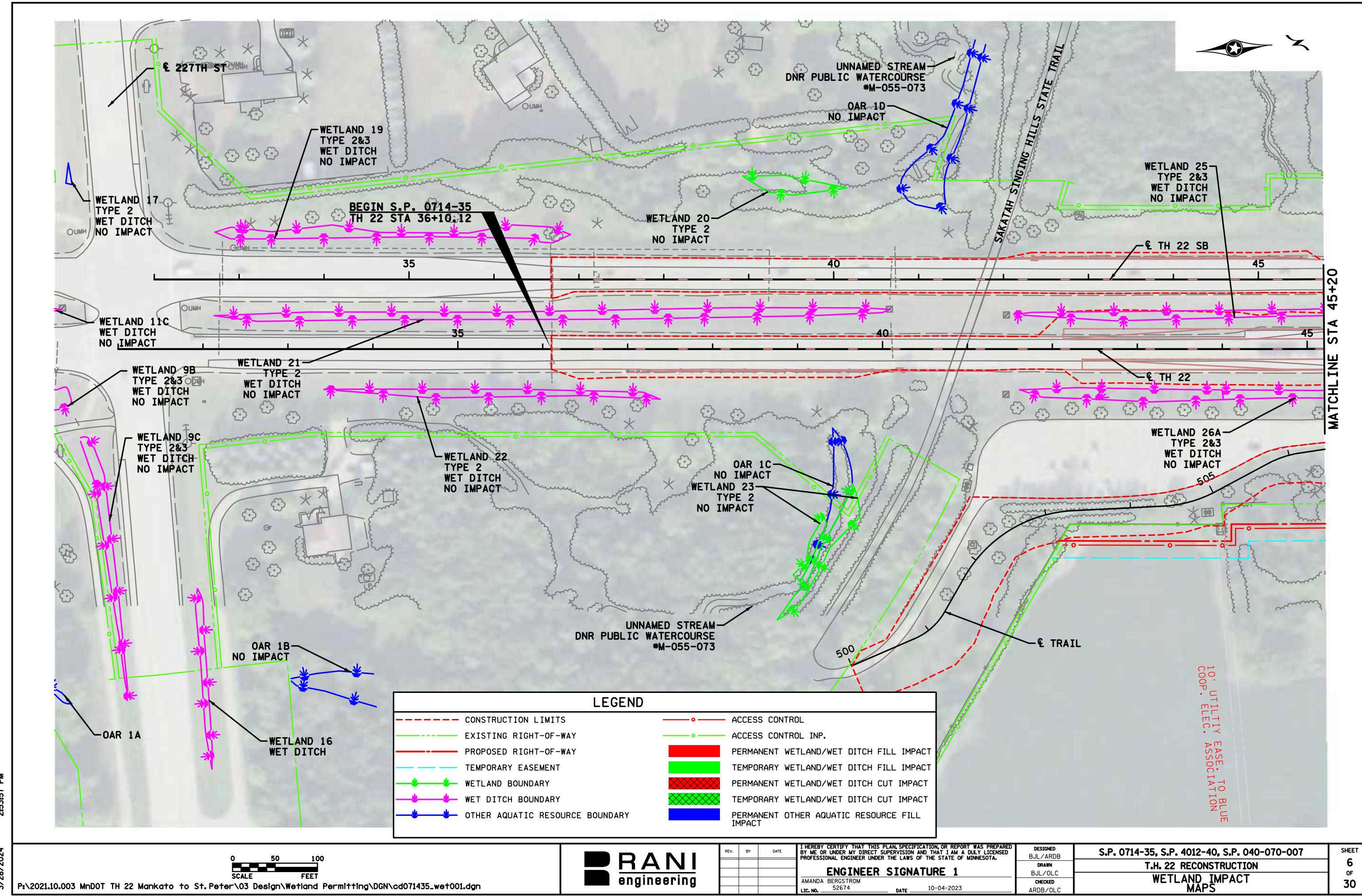
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

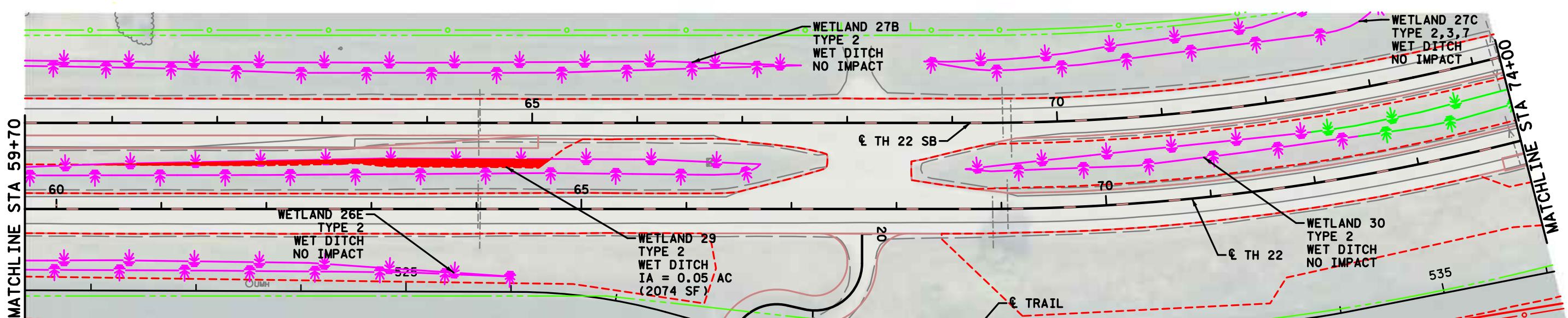
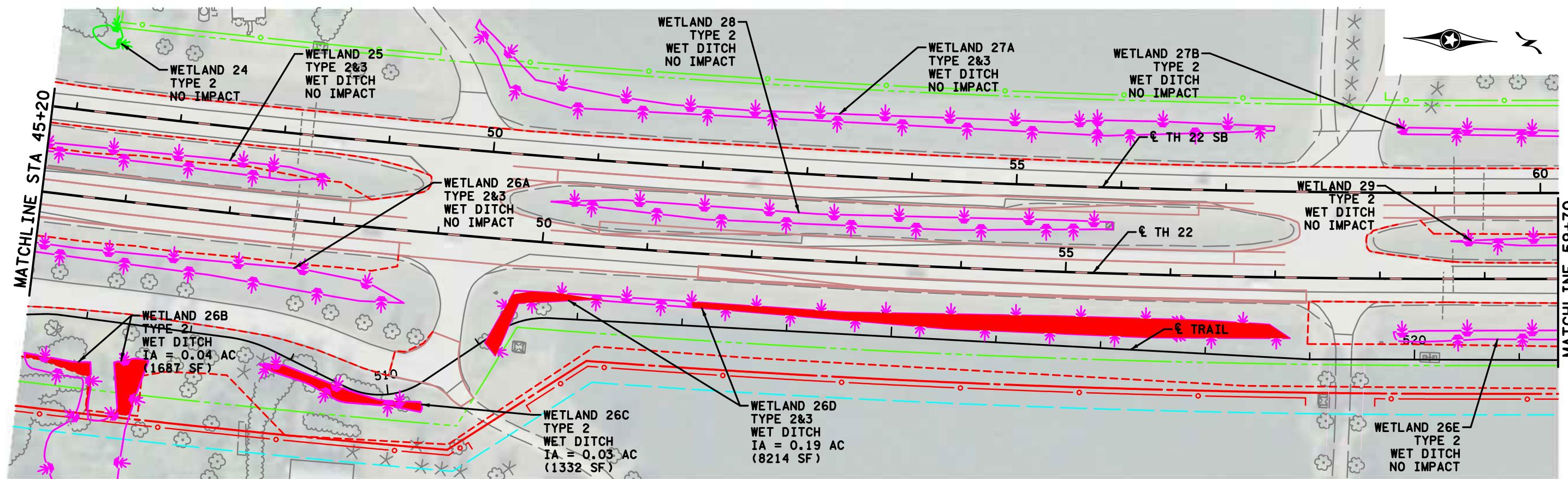
<b>ENGINEER SIGNATURE 1</b>		
AMANDA BERGSTROM		
LIC. NO.	52674	DATE
10-04-2023		

DESIGNED  
BY JBL/ARDB  
DRAWN  
BY JBL/OLC  
CHECKED  
BY ARDB/OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
AQUATIC RESOURCE  
OVERVIEW MAP

SHEET  
5  
OF  
30





## LEGEND

CONSTRUCTION LIMITS	ACCESS CONTROL
EXISTING RIGHT-OF-WAY	ACCESS CONTROL INP.
PROPOSED RIGHT-OF-WAY	PERMANENT WETLAND/WET DITCH FILL IMPACT
TEMPORARY EASEMENT	TEMPORARY WETLAND/WET DITCH FILL IMPACT
WETLAND BOUNDARY	PERMANENT WETLAND/WET DITCH CUT IMPACT
WET DITCH BOUNDARY	TEMPORARY WETLAND/WET DITCH CUT IMPACT
OTHER AQUATIC RESOURCE BOUNDARY	PERMANENT OTHER AQUATIC RESOURCE FILL IMPACT

0 50 100  
SCALE FEET

P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\DGN\cd071435\_wet002.dgn

**RANI**  
engineering

REV.

BY

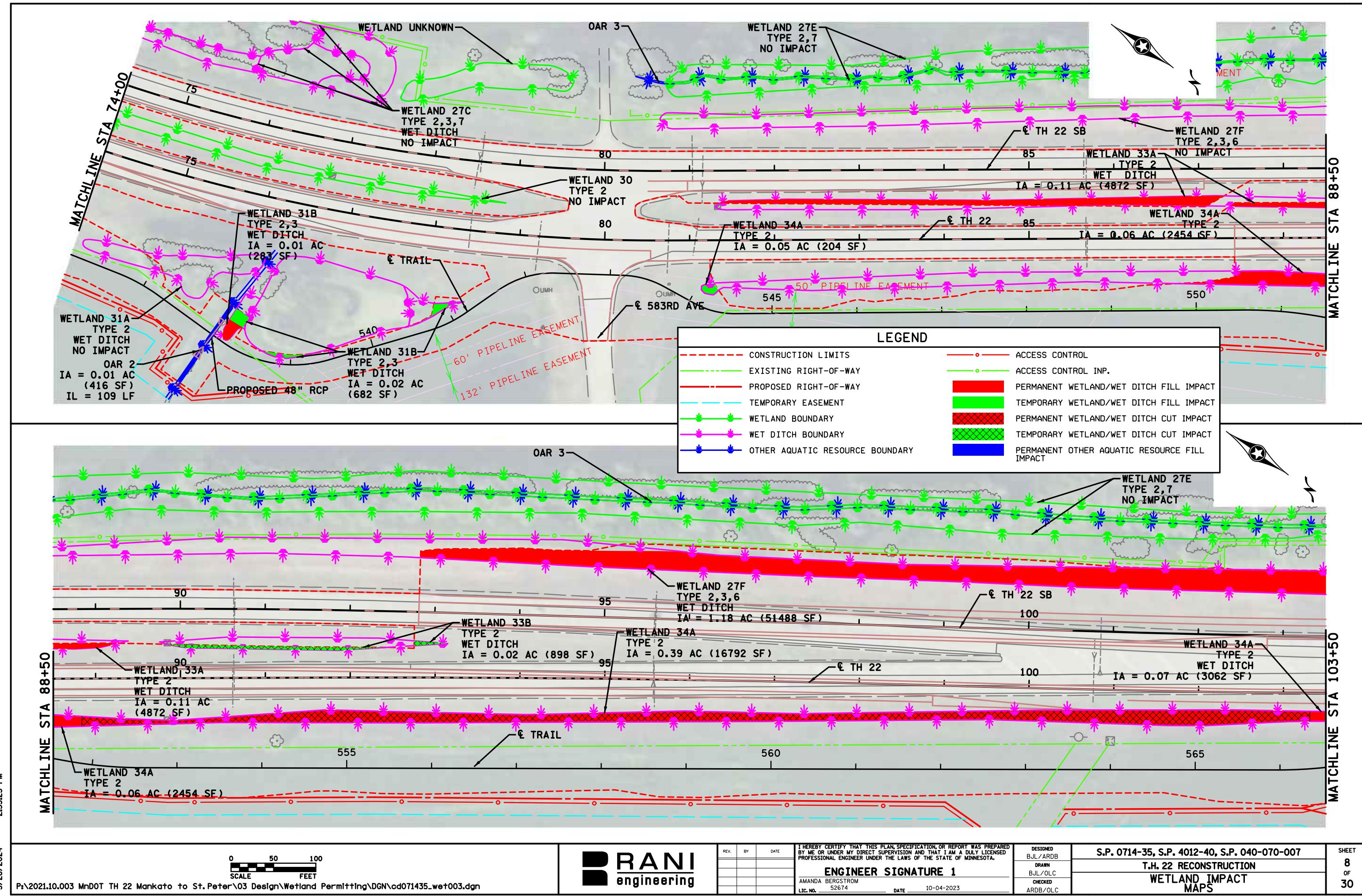
DATE

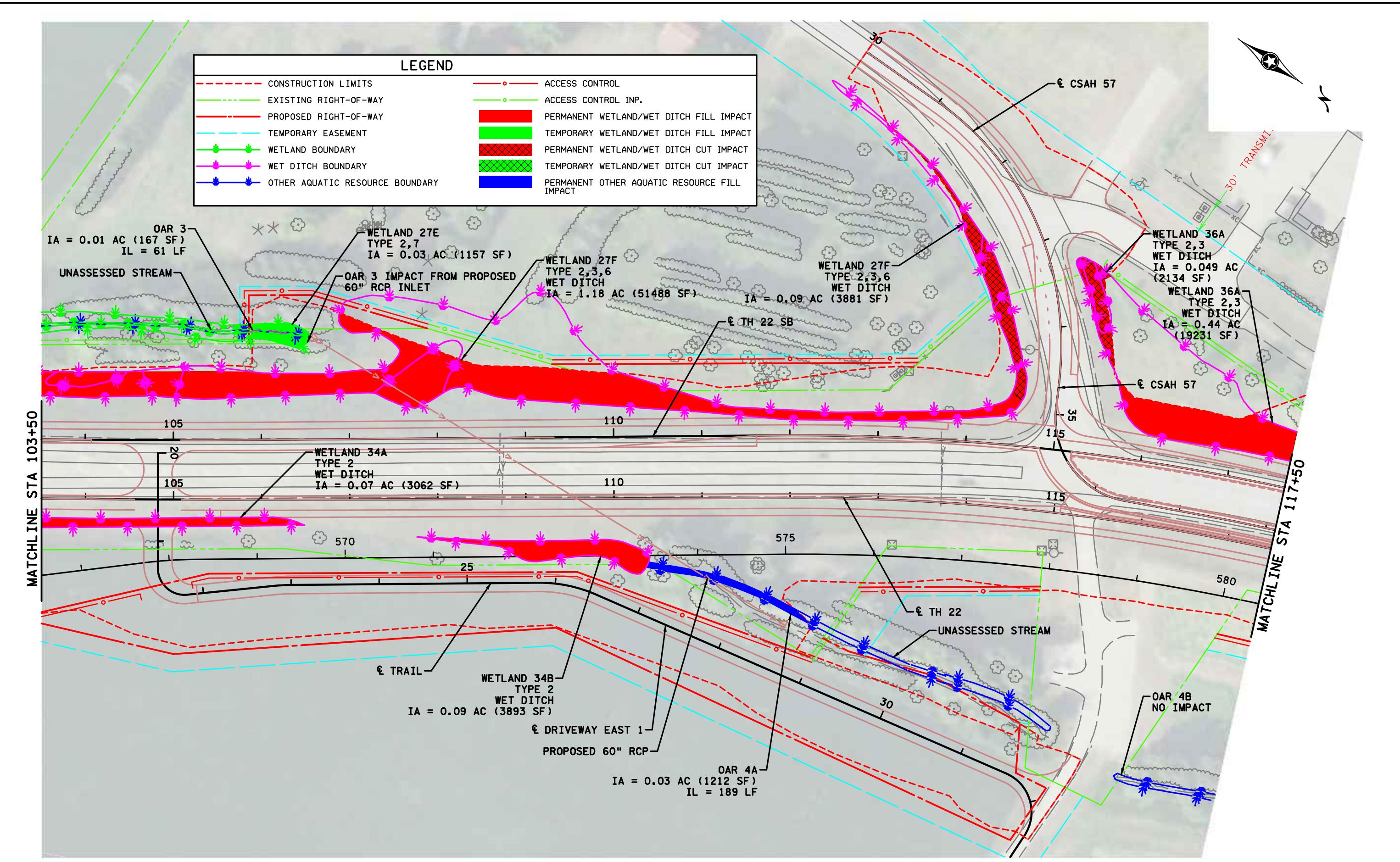
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

**ENGINEER SIGNATURE 1**  
AMANDA BERGSTROM  
LIC. NO. 52674  
DATE 10-04-2023

DESIGNED  
BY/JL/ARDB  
DRAWN  
BY/JL/OLC  
CHECKED  
ARDB/OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
WETLAND IMPACT MAPS





0 50 100  
SCALE FEET

**RANI**  
engineering

P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\GDN\cd071435\_wet004.dgn

REV.

BY

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.  
**ENGINEER SIGNATURE 1**  
AMANDA BERGSTROM  
LIC. NO. 52674  
DATE 10-04-2023

DESIGNED

BJL/ARDB

DRAWN

BJL/OLC

CHECKED

ARDB/OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007

T.H. 22 RECONSTRUCTION

WETLAND IMPACT

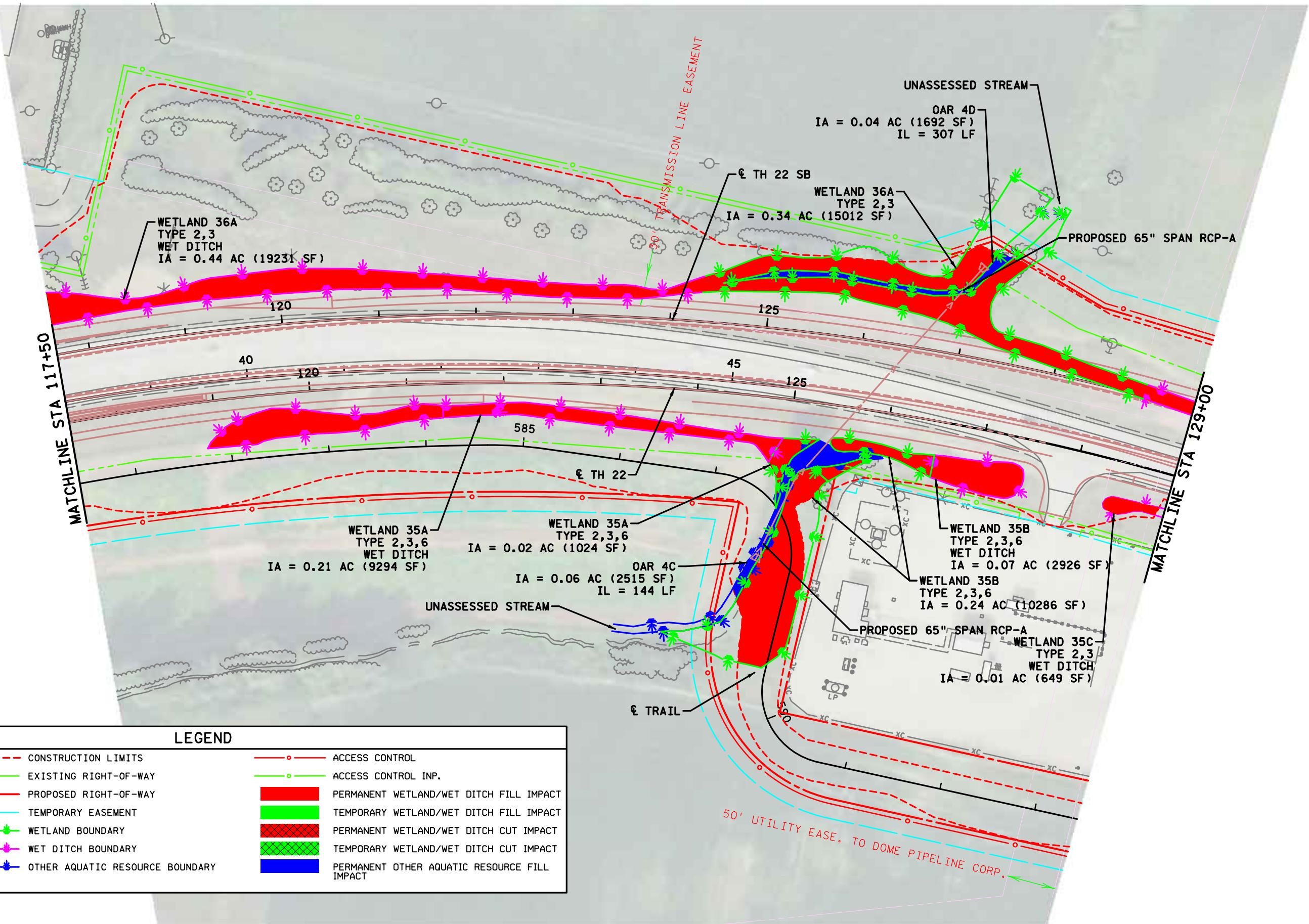
MAPS

HEET

9

OF

30



mndot\_road\_v8.Th22\_ML.tbl

\*PLTDRV\*  
25617 PM-USERNAME-  
3/28/20240 50 100  
SCALE FEET

P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\GDN\cd071435\_wet005.dgn



REV.

BY

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.

**ENGINEER SIGNATURE 1**

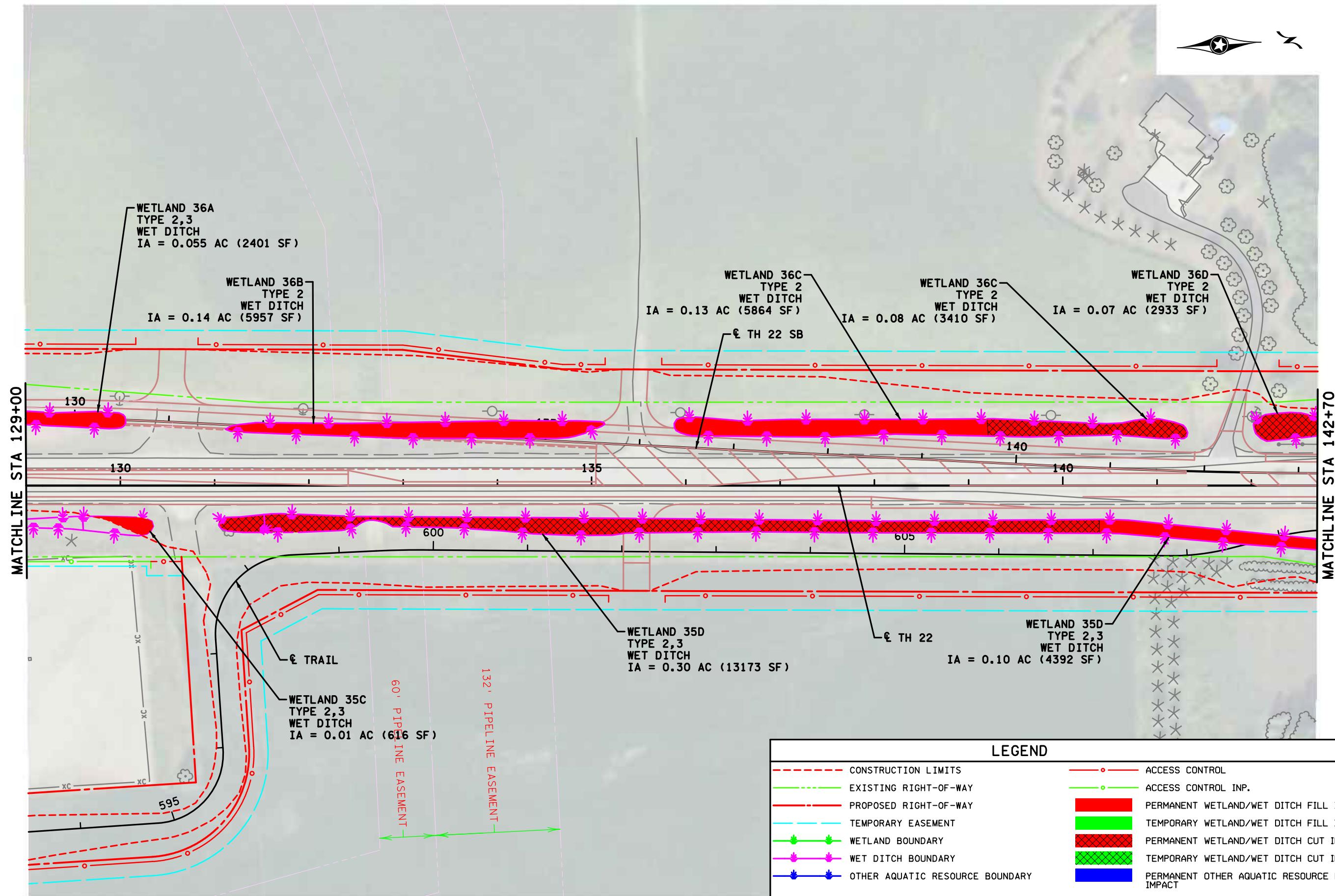
AMANDA BERGSTROM  
LIC. NO. 52674

DATE 10-04-2023

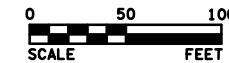
DESIGNED  
BY/JUL/ARDB  
DRAWN  
BY/JUL/OLC  
CHECKED  
ARDB/OLC

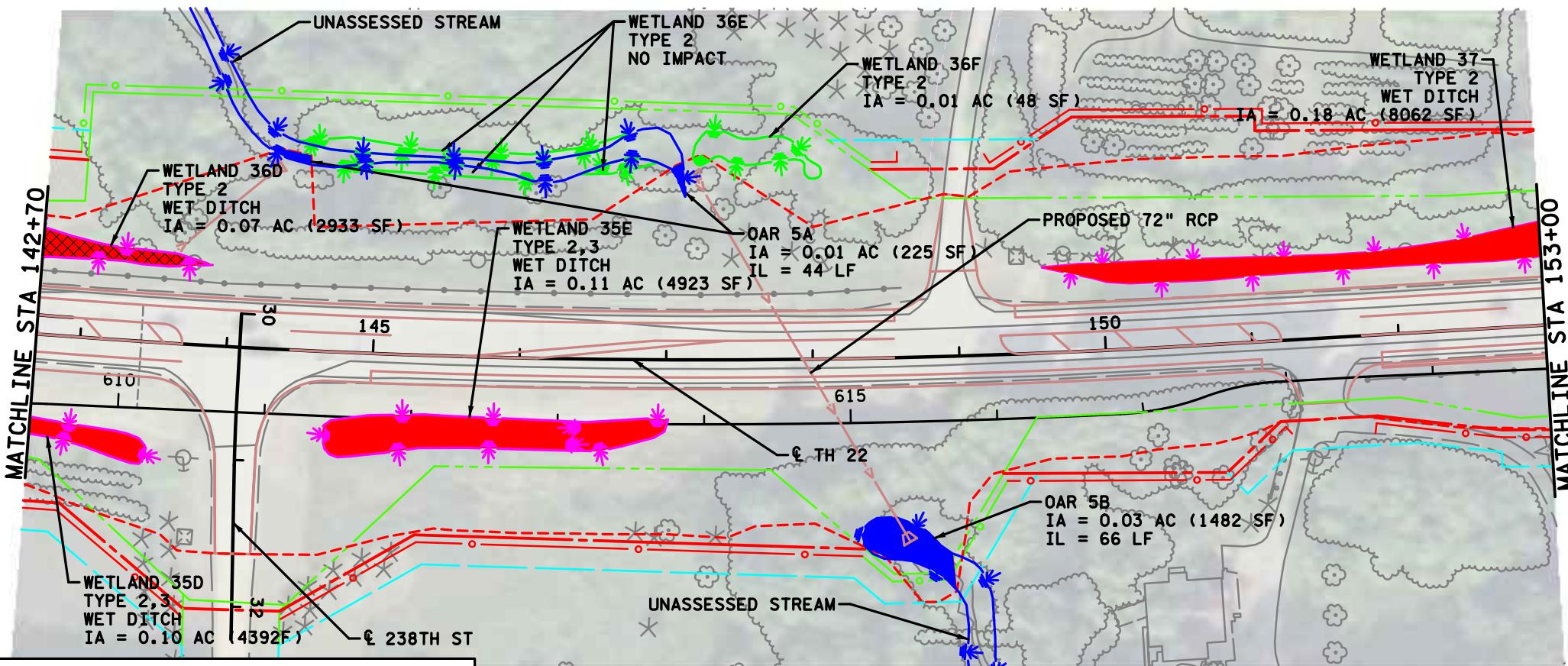
S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
WETLAND IMPACT MAPS

SHEET  
10  
OF  
30



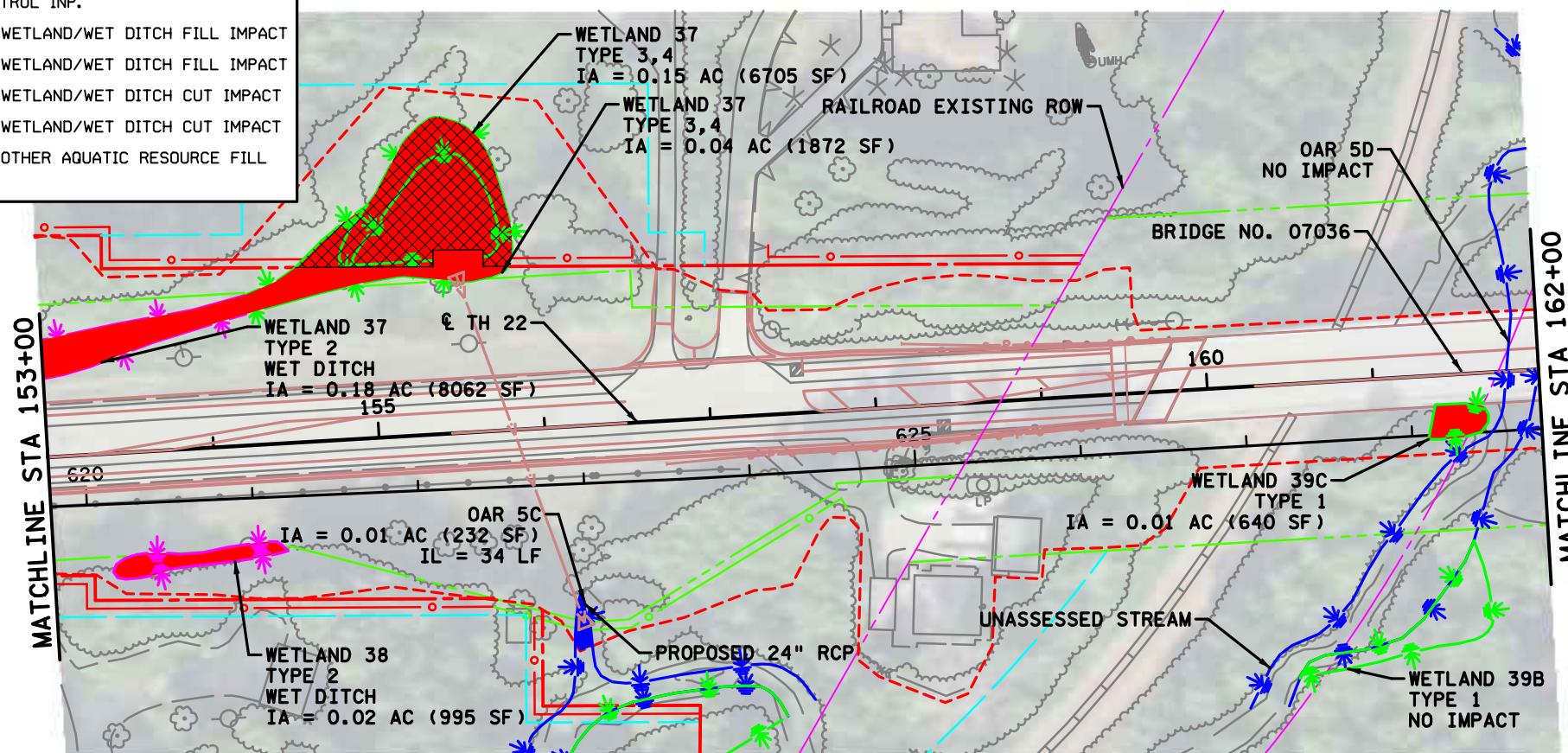
mndot\_road\_v8.Th22\_ML.tbl

SPLTDRVS\*  
25635 PMUSERNAME\_-  
3/28/2024



## LEGEND

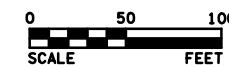
CONSTRUCTION LIMITS	ACCESS CONTROL
EXISTING RIGHT-OF-WAY	ACCESS CONTROL INP.
PROPOSED RIGHT-OF-WAY	
TEMPORARY EASEMENT	
WETLAND BOUNDARY	
WET DITCH BOUNDARY	
OTHER AQUATIC RESOURCE BOUNDARY	
PERMANENT WETLAND/WET DITCH FILL IMPACT	
TEMPORARY WETLAND/WET DITCH FILL IMPACT	
PERMANENT WETLAND/WET DITCH CUT IMPACT	
TEMPORARY WETLAND/WET DITCH CUT IMPACT	
PERMANENT OTHER AQUATIC RESOURCE FILL IMPACT	

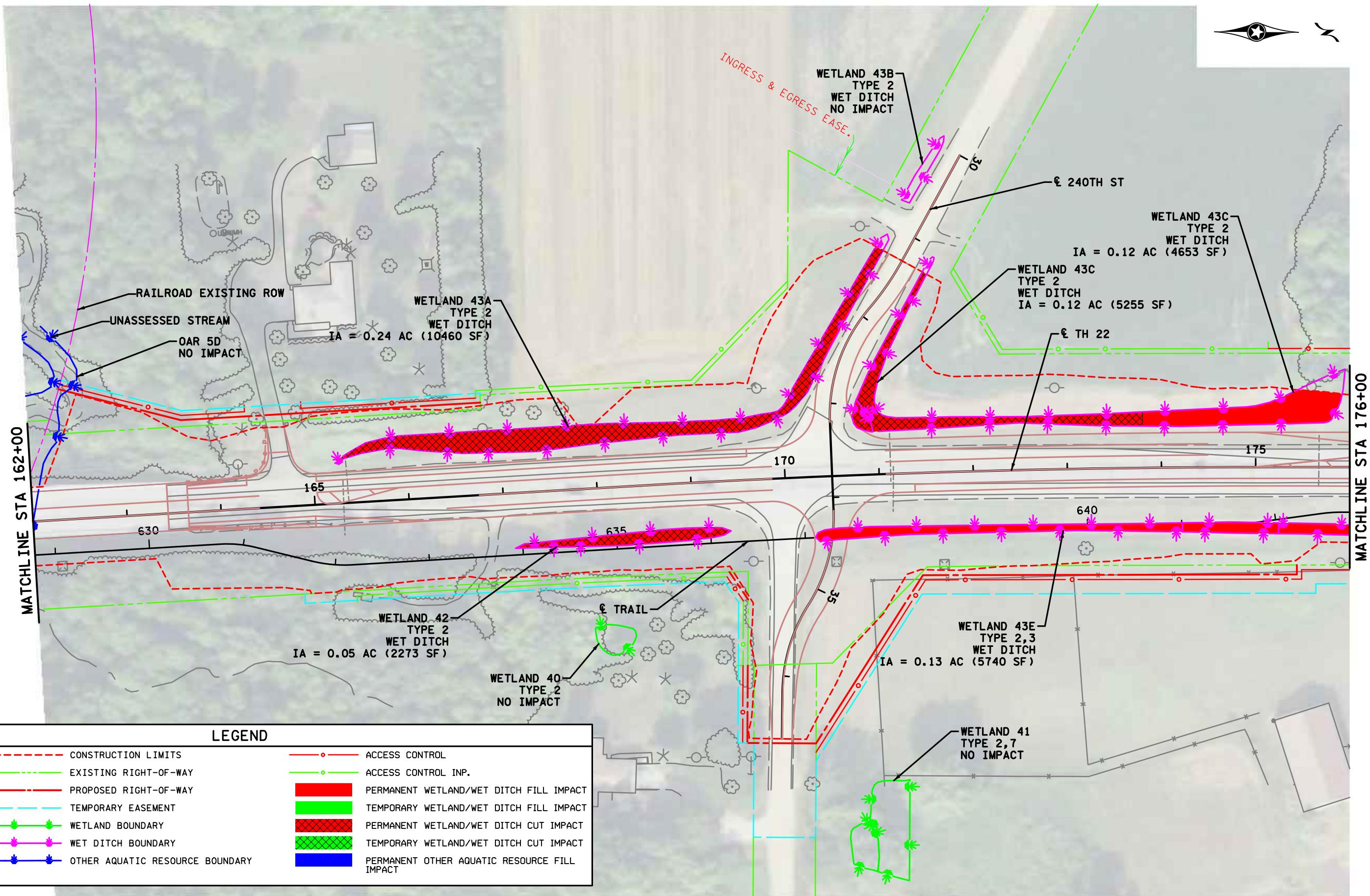


mndot\_road\_v8.Th22.ML.tbl

PLTDRV\$# 256659 PM

3/28/2024

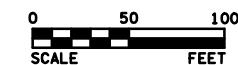


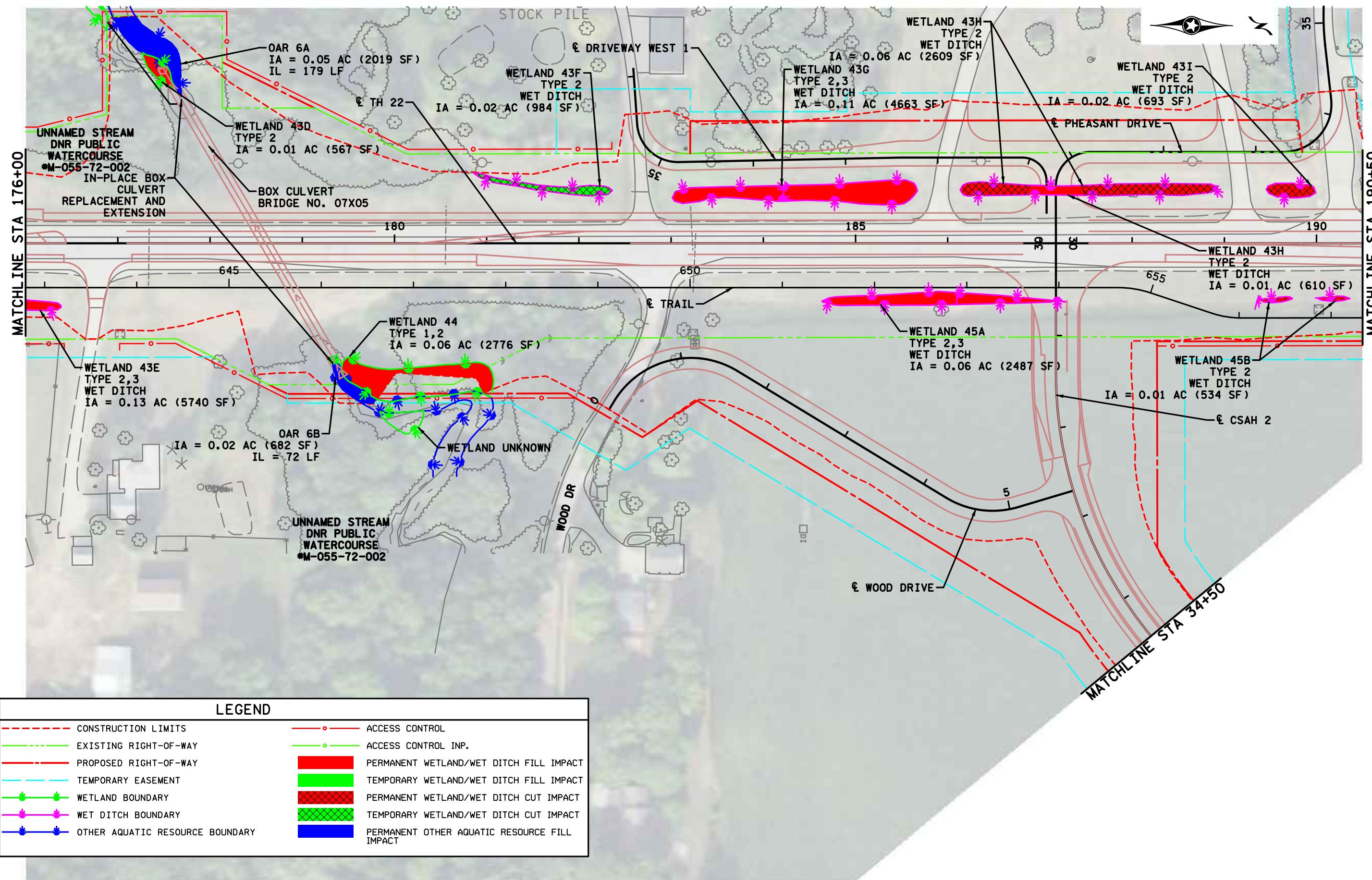


mndot\_road\_v8.Th22.ML.tbl

255737 PM

3/28/2024





mndot\_road\_v8.Th22.ML.tbl

\*PLTDRV\$\*  
258:00 PM\_USERNAME\_-  
3/28/20240 50 100  
SCALE FEET

P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\DGN\cd071435\_wet009.dgn



REV.

BY

DATE

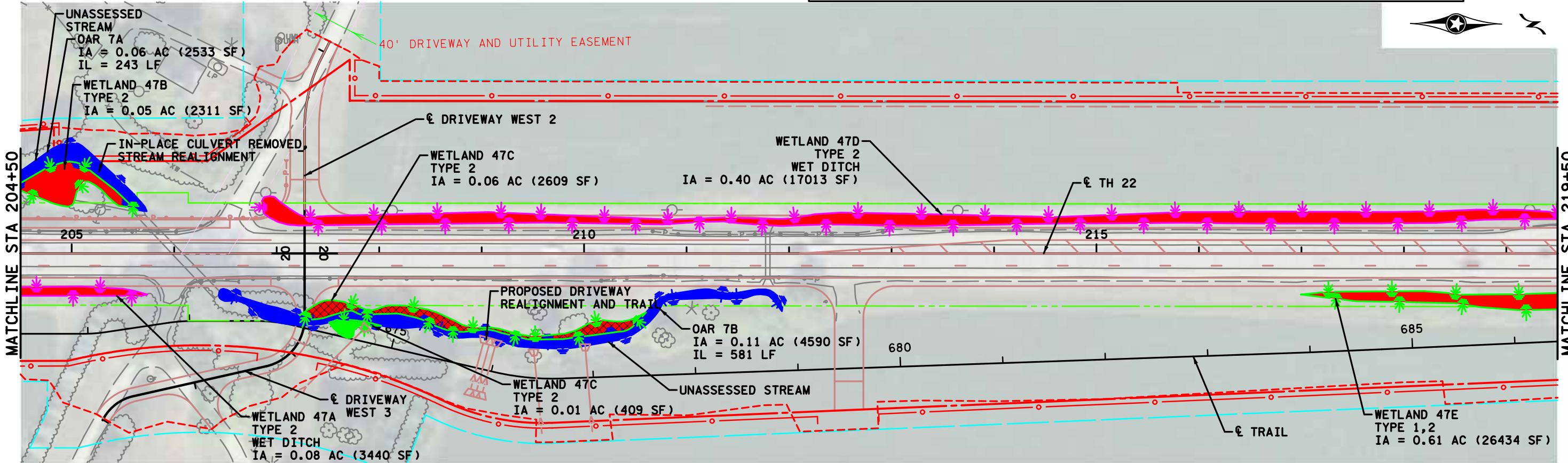
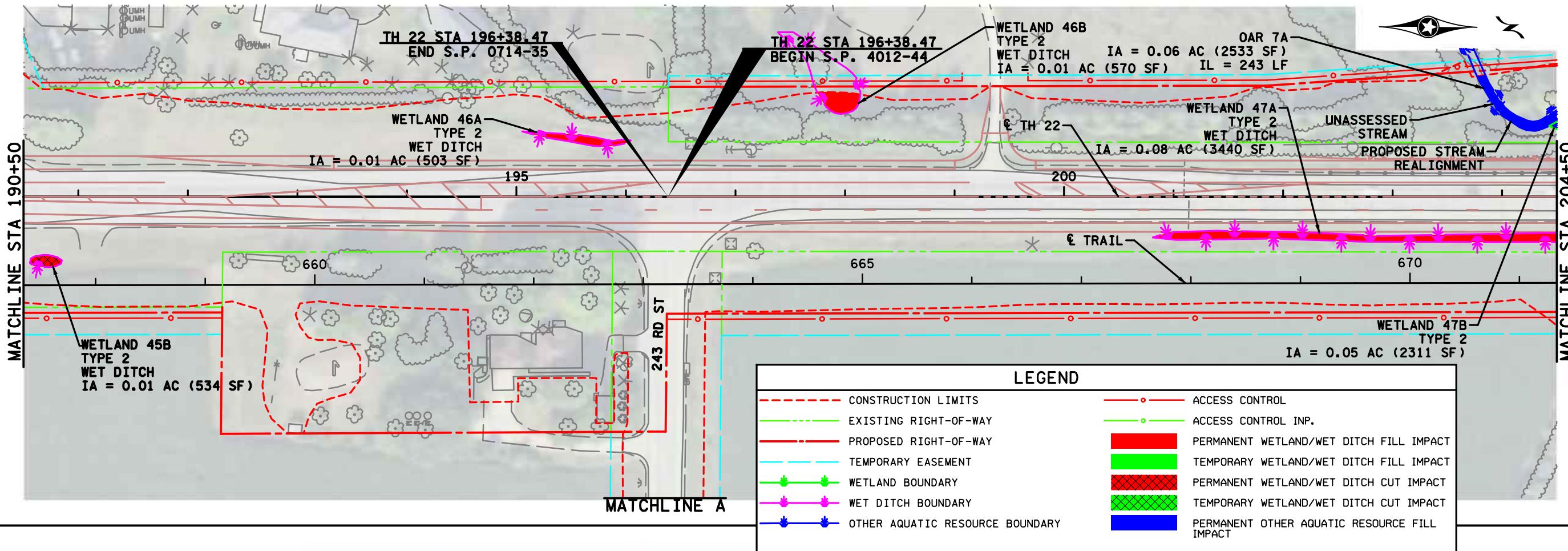
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

**ENGINEER SIGNATURE 1**  
AMANDA BERGSTROM  
LIC. NO. 52674

DESIGNED BJL/ARDB	S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007
DRAWN BJL/OLC	T.H. 22 RECONSTRUCTION
CHECKED ARDB/OLC	WETLAND IMPACT MAPS

DATE 10-04-2023

SHEET  
14  
OF  
30



mndot\_road.v8.Th22.ML.tbl

SPLTDRV\$

25826 PM

3/28/2024

0 50 100  
SCALE FEET

**RANI**  
engineering

REV.

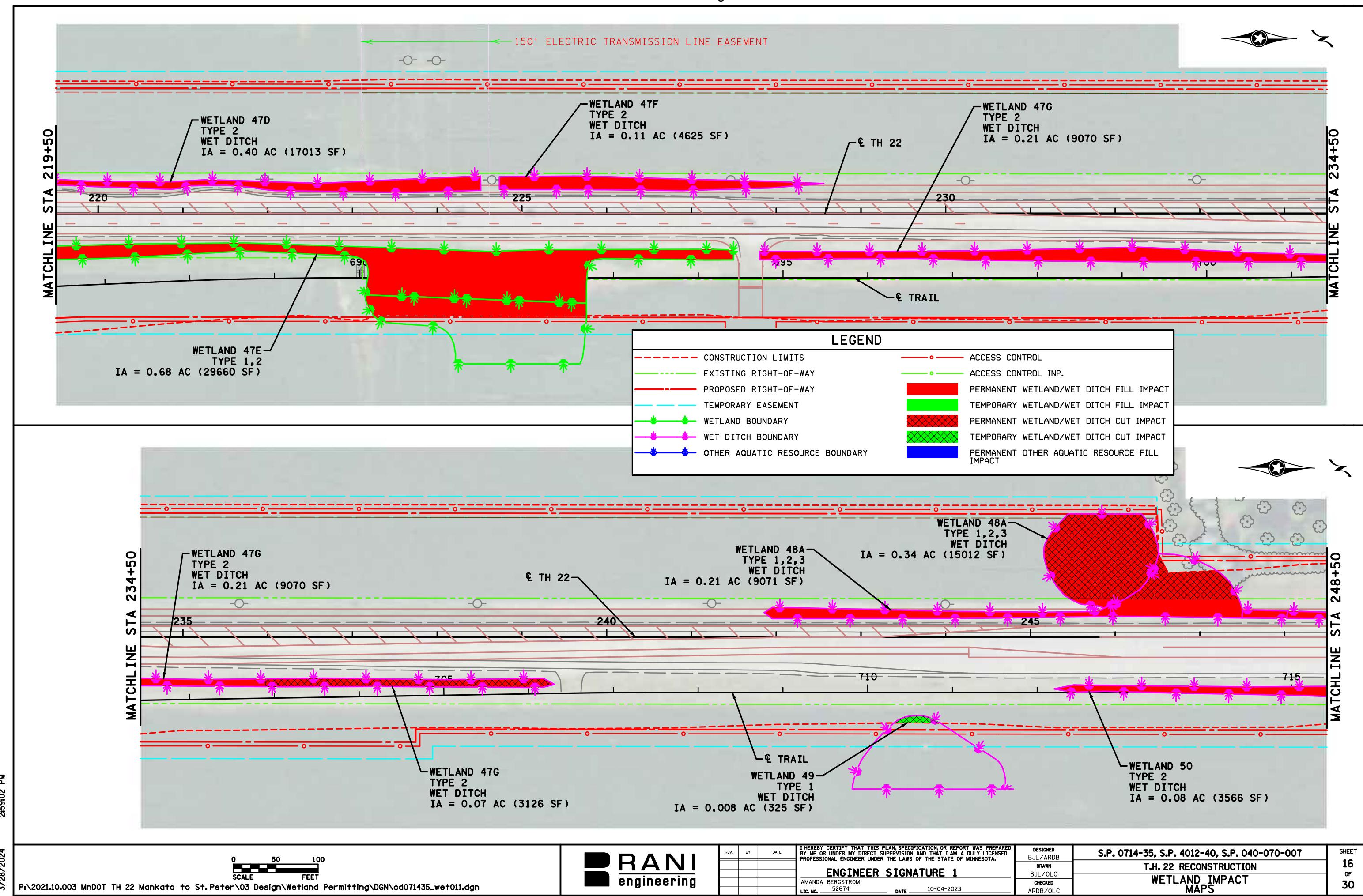
BY

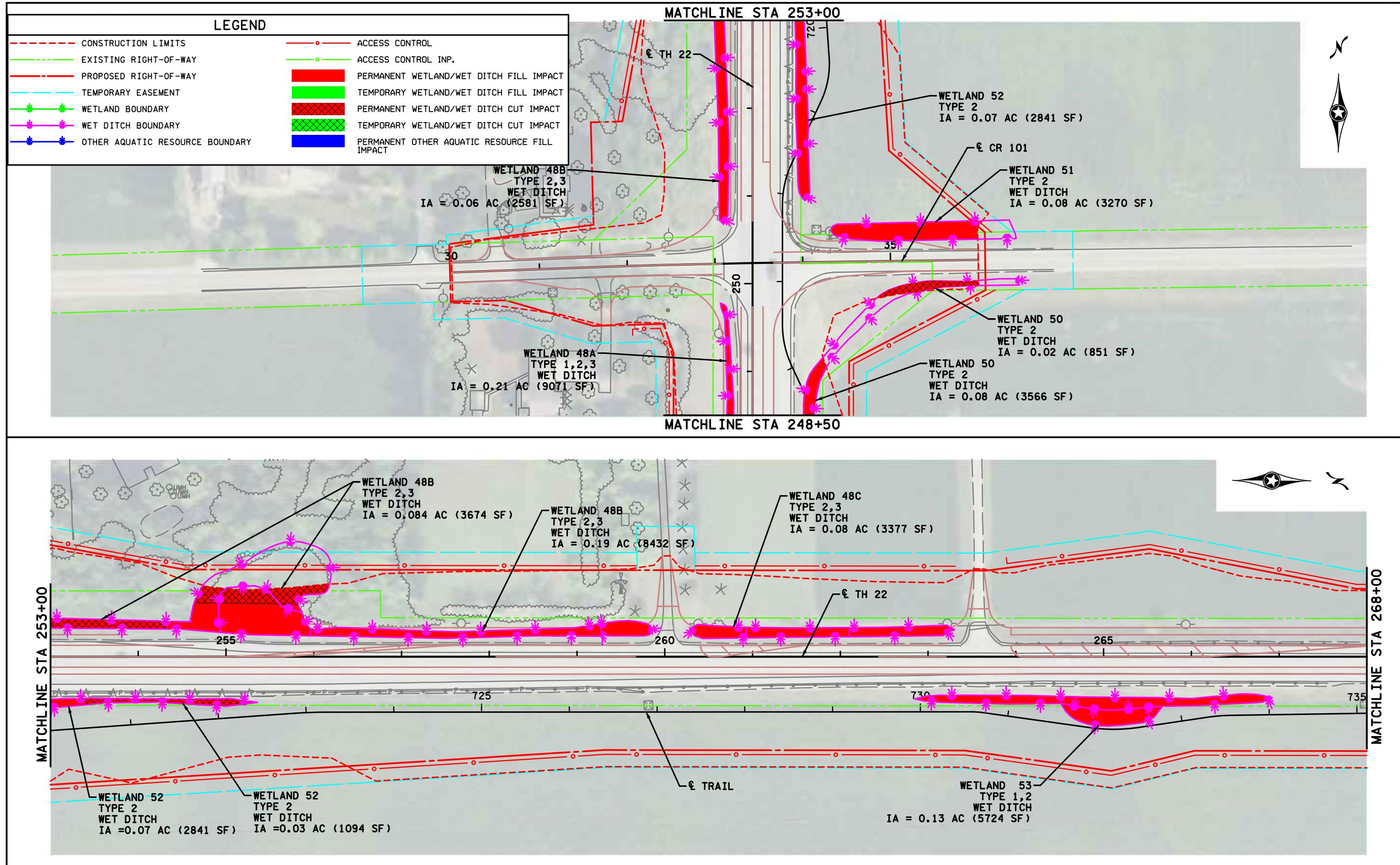
DATE

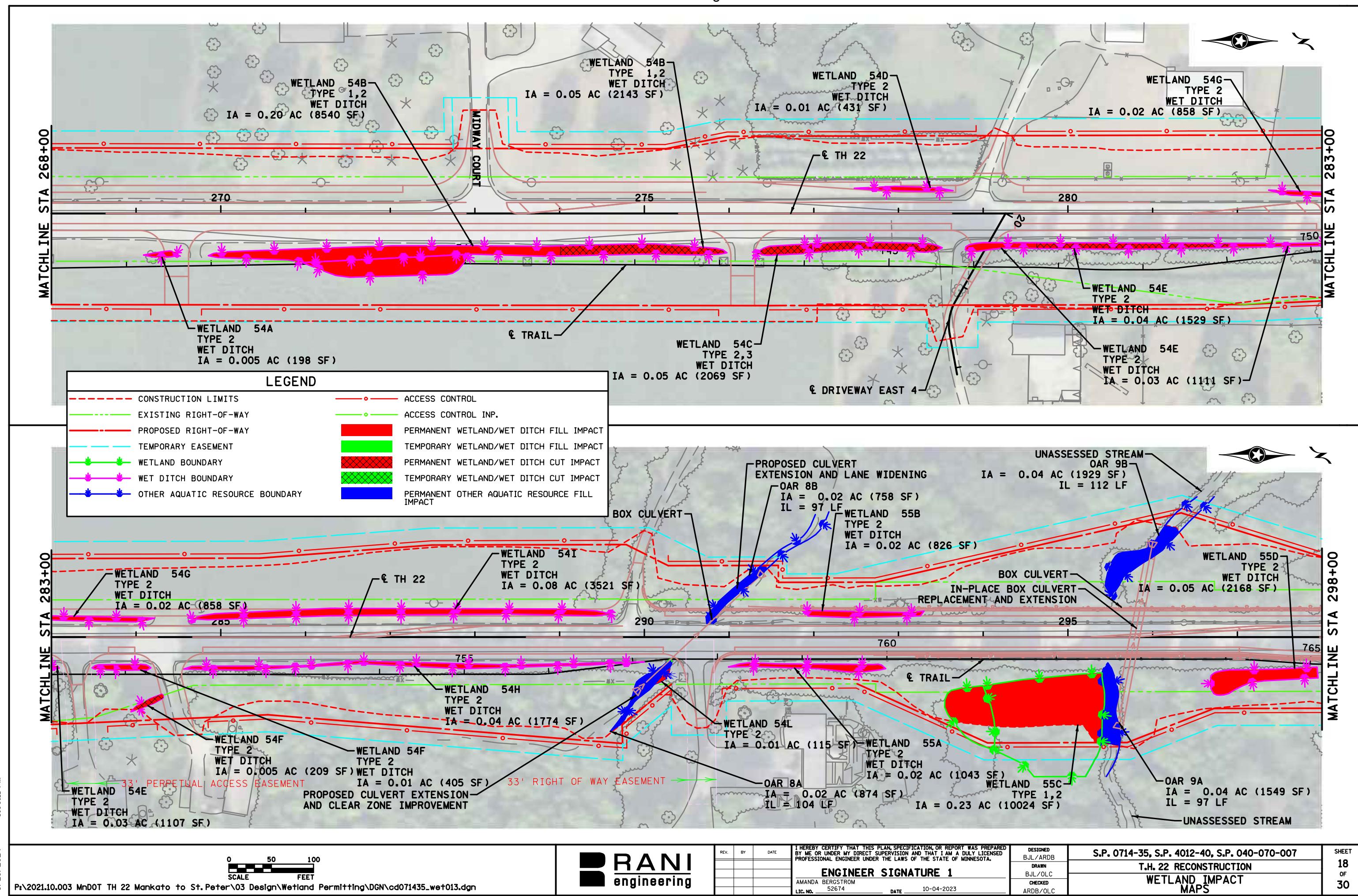
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
**ENGINEER SIGNATURE 1**  
AMANDA BERGSTROM  
LIC. NO. 52674  
DATE 10-04-2023

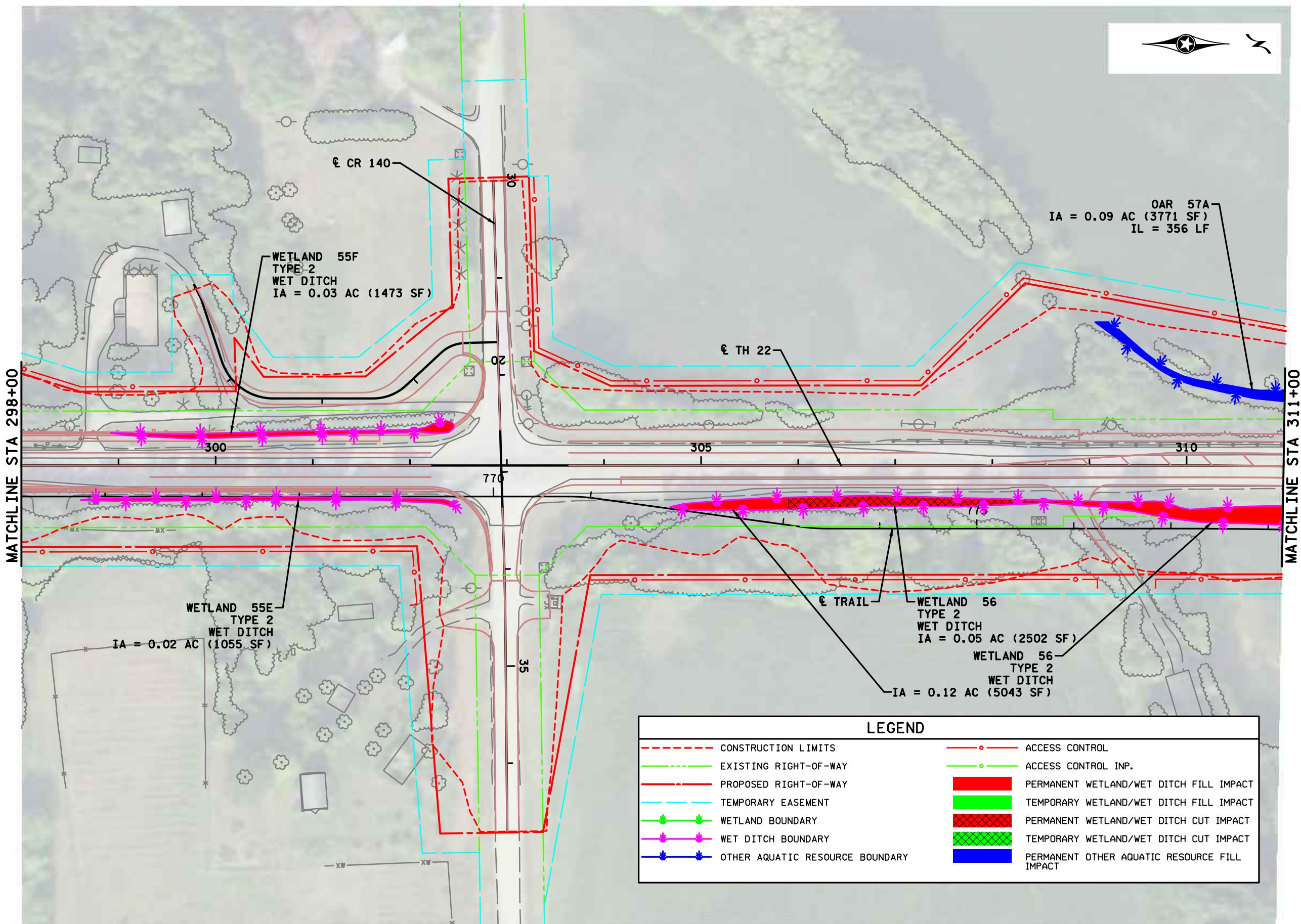
DESIGNED  
BY/JL/ARDB  
DRAWN  
BY/JL/OLC  
CHECKED  
ARDB/OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
WETLAND IMPACT MAPS









0 50 100  
SCALE FEET

**RANI**  
engineering

3018 PM

P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\GDN\cd071435\_wet014.dgn

REV.

BY

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.  
**ENGINEER SIGNATURE 1**  
AMANDA BERGSTROM  
LIC. NO. 52674 DATE 10-04-2023

DESIGNED  
BY/JL/ARDB

DRAWN  
BY/JL/OLC

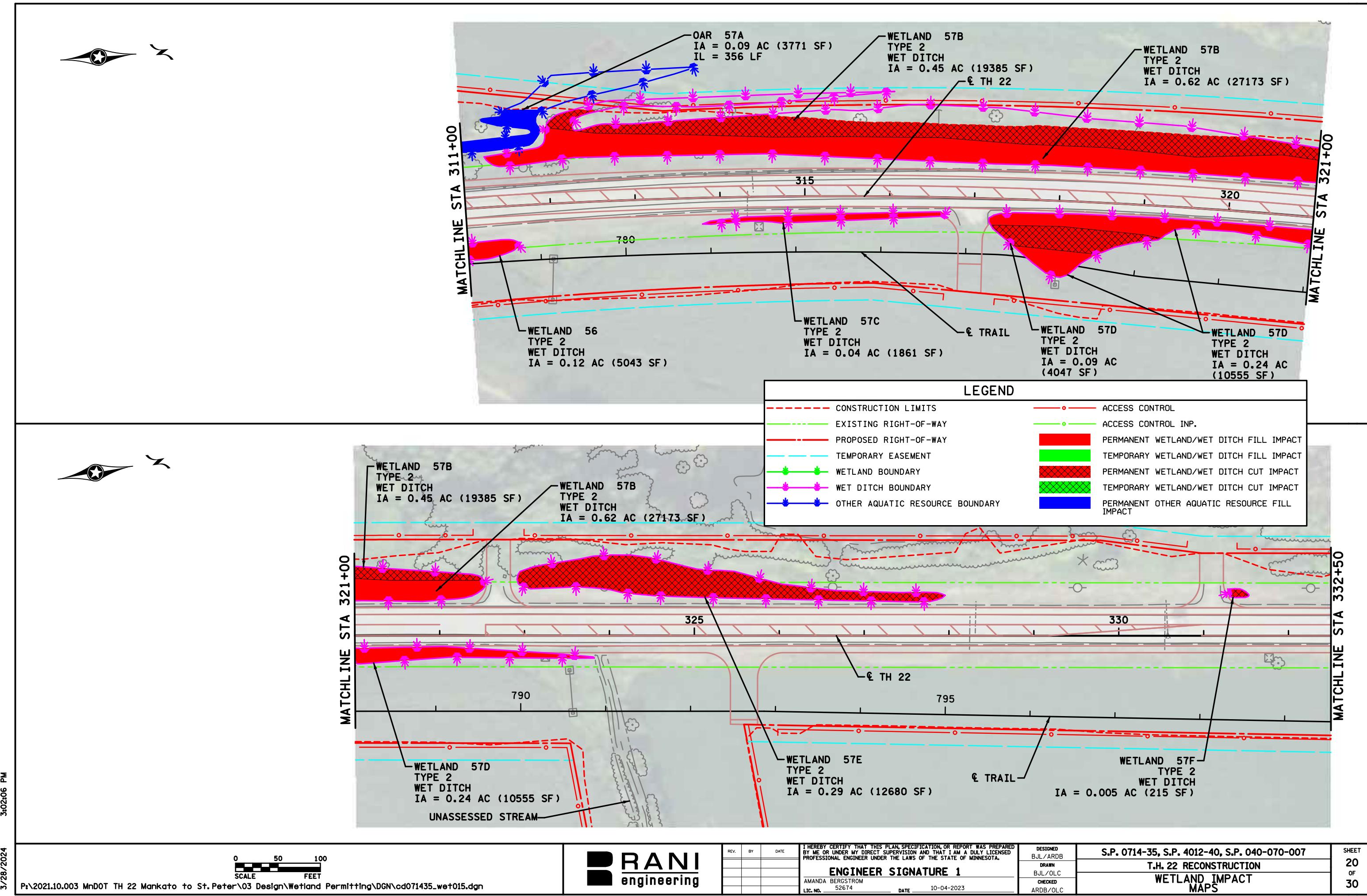
CHECKED  
ARDB/OLC

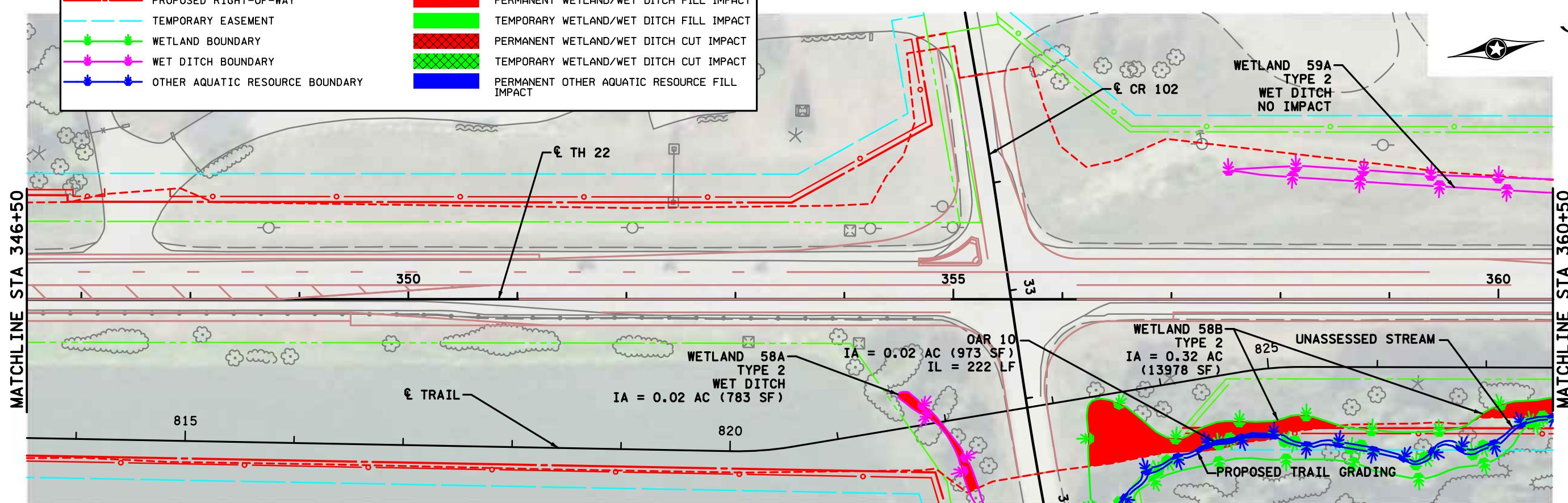
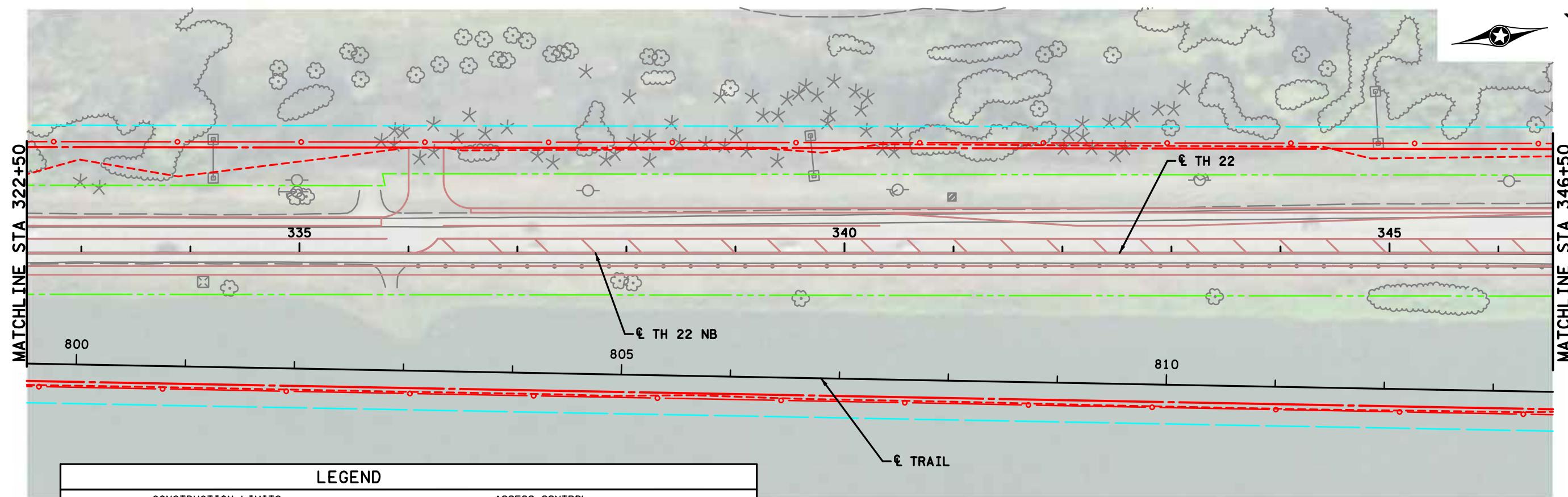
S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
WETLAND IMPACT MAPS

19

OF

30





0 50 100  
SCALE FEET

**RANI**  
engineering

REV.

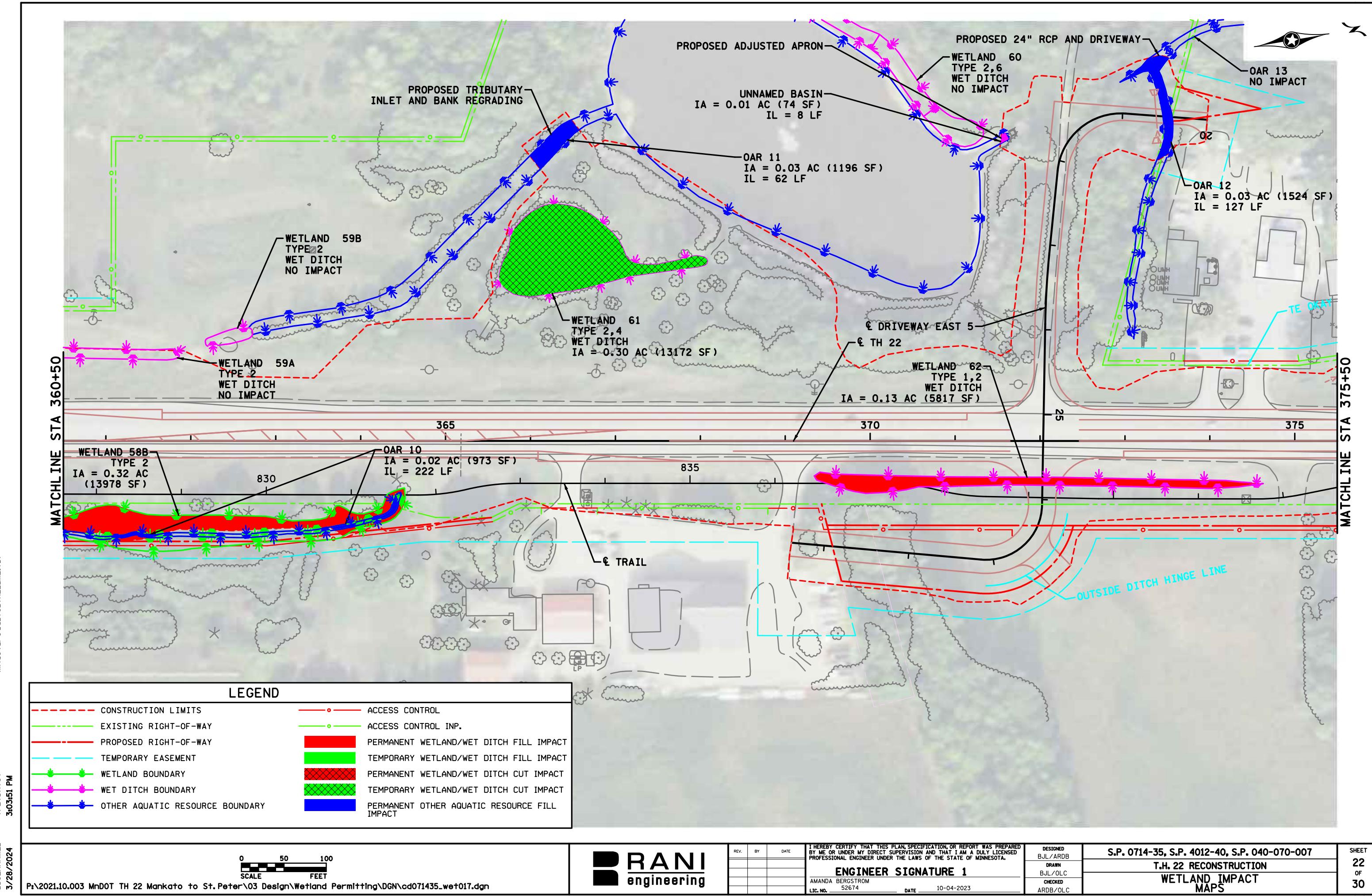
BY

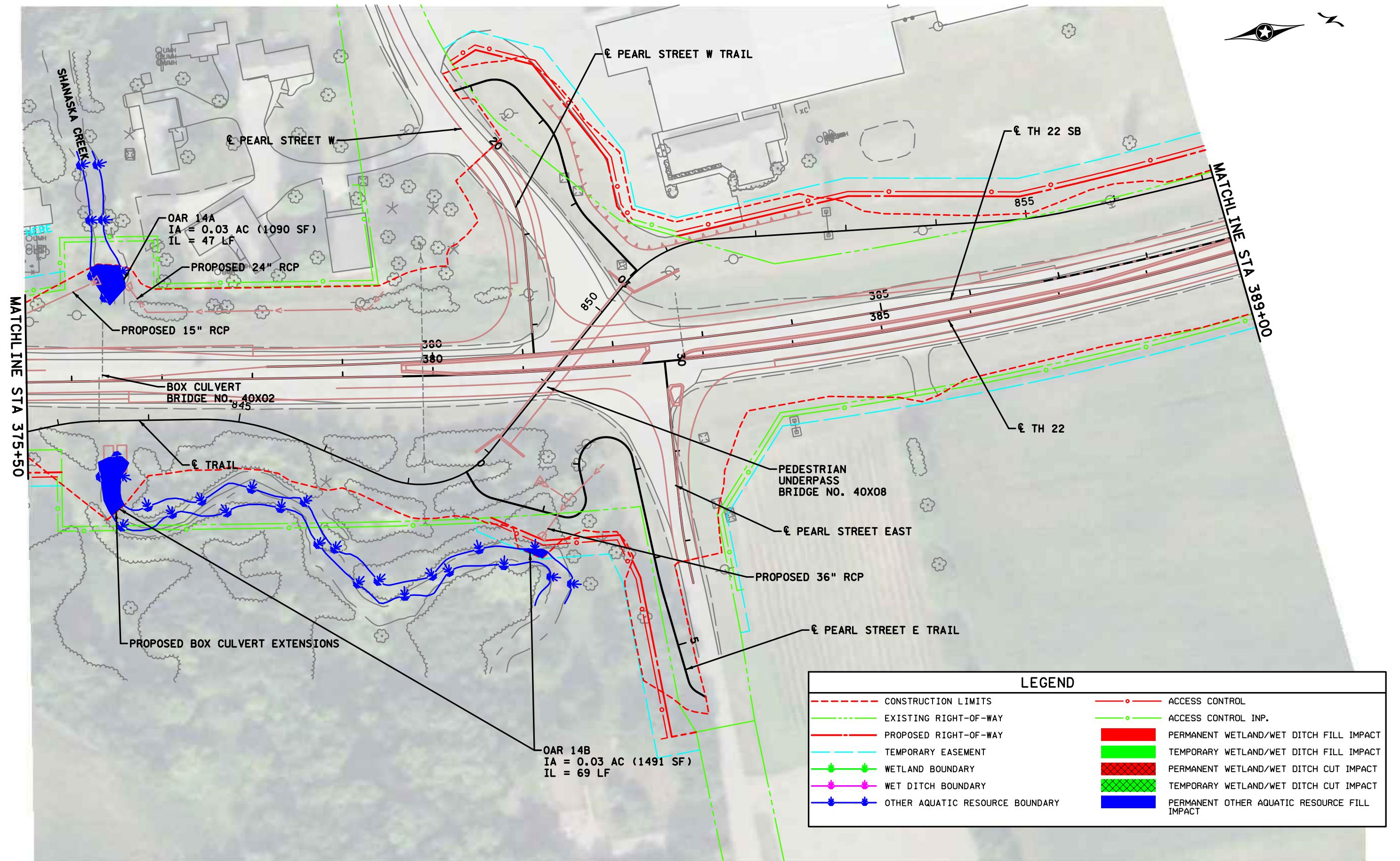
DATE

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.		
<b>ENGINEER SIGNATURE 1</b>		
AMANDA BERGSTROM LIC. NO. 52674		
DATE 10-04-2023		

DESIGNED BJL/ARDB
DRAINED BJL/OLC
CHECKED ARDB/OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
WETLAND IMPACT MAPS

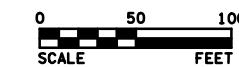


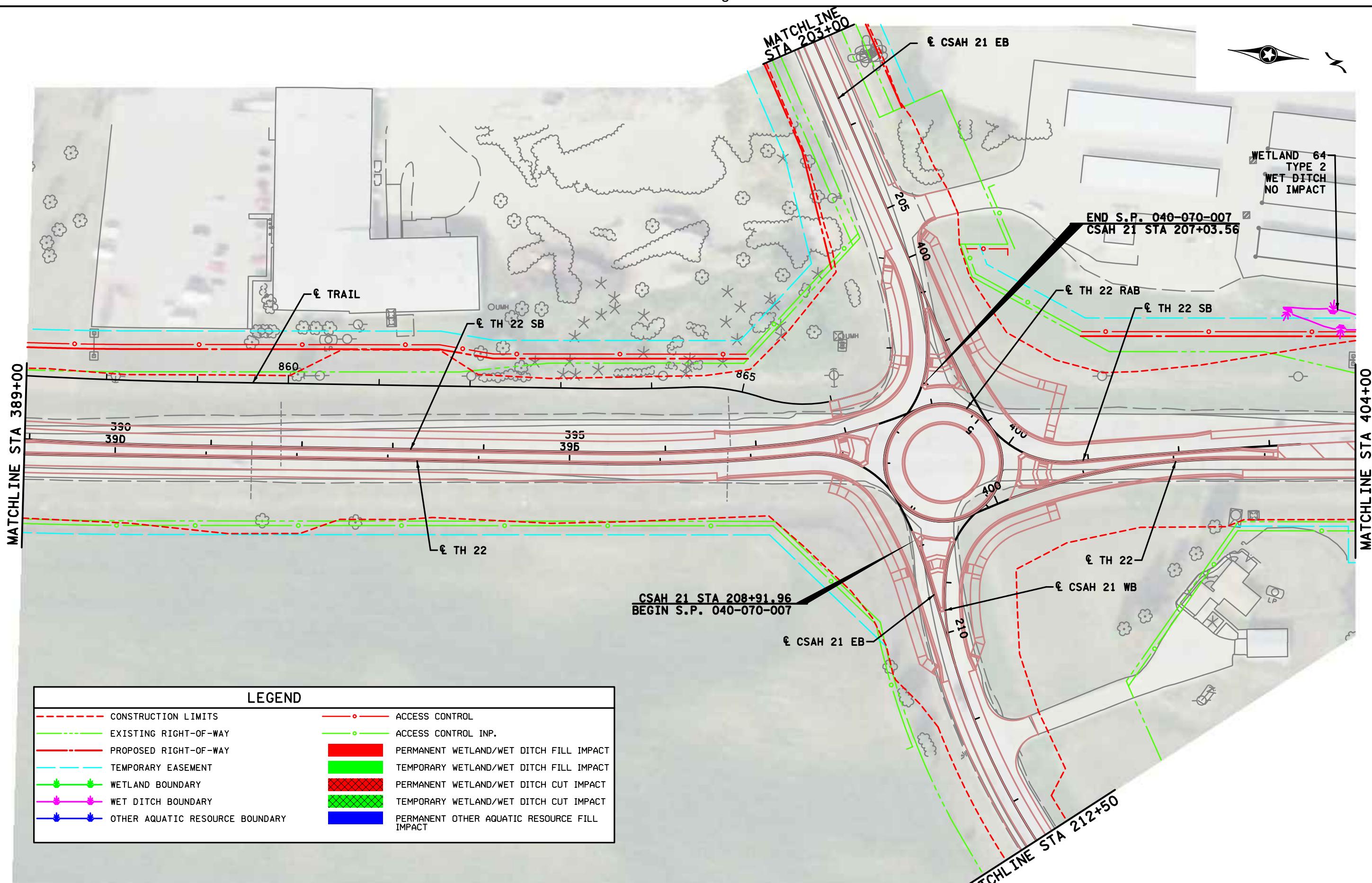


mndot-road-v8.Th22\_ML.tbl

30430 PM

3/28/2024





mndot\_road\_v8.Th22\_ML.tbl

\*PLTDRV\$\*  
30459 PM-USERNAME\_-  
3/28/2024

0 50 100  
SCALE FEET

P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\GDN\cd071435\_wet019.dgn

**RANI**  
engineering

REV.

BY

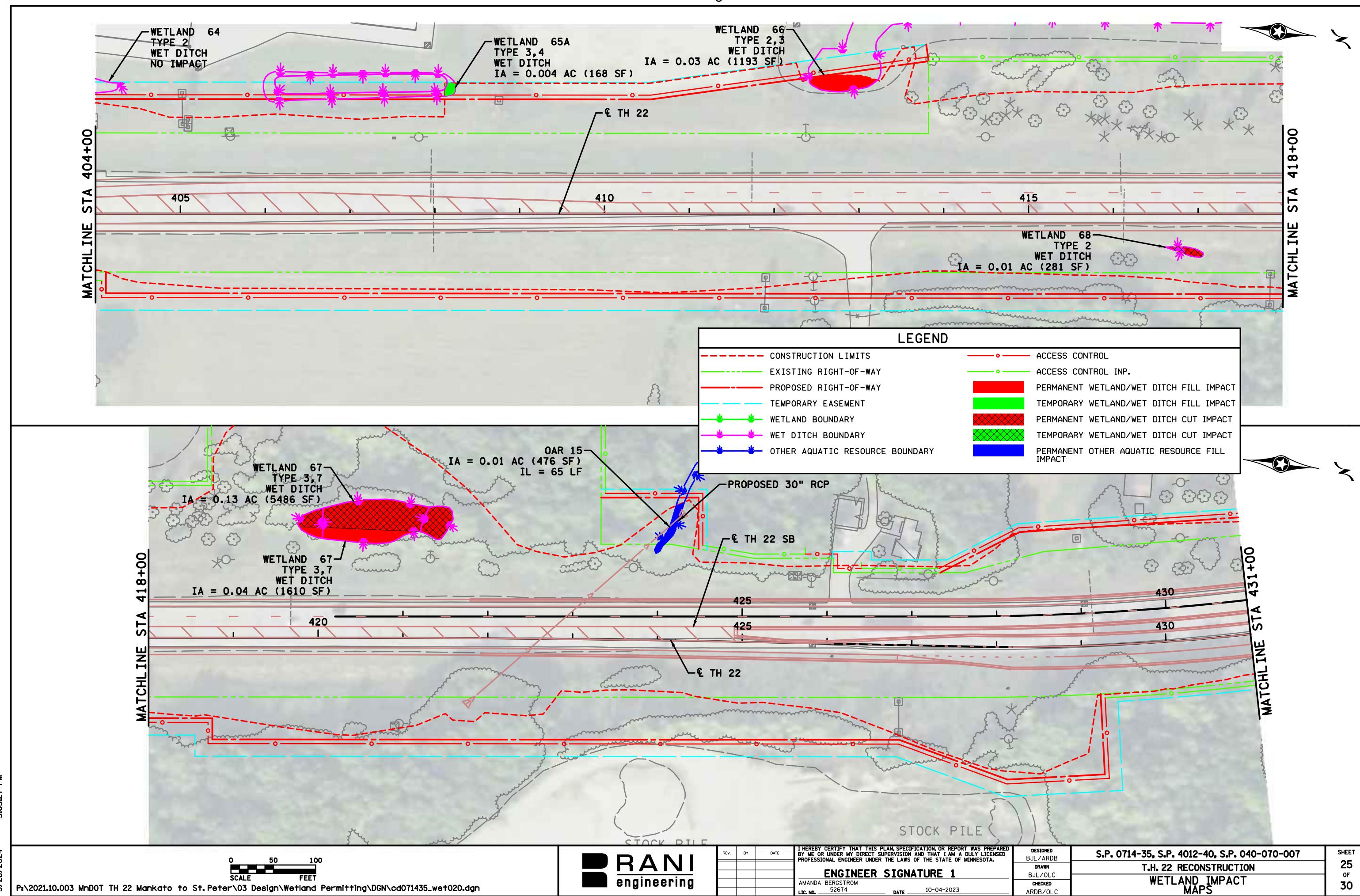
DATE

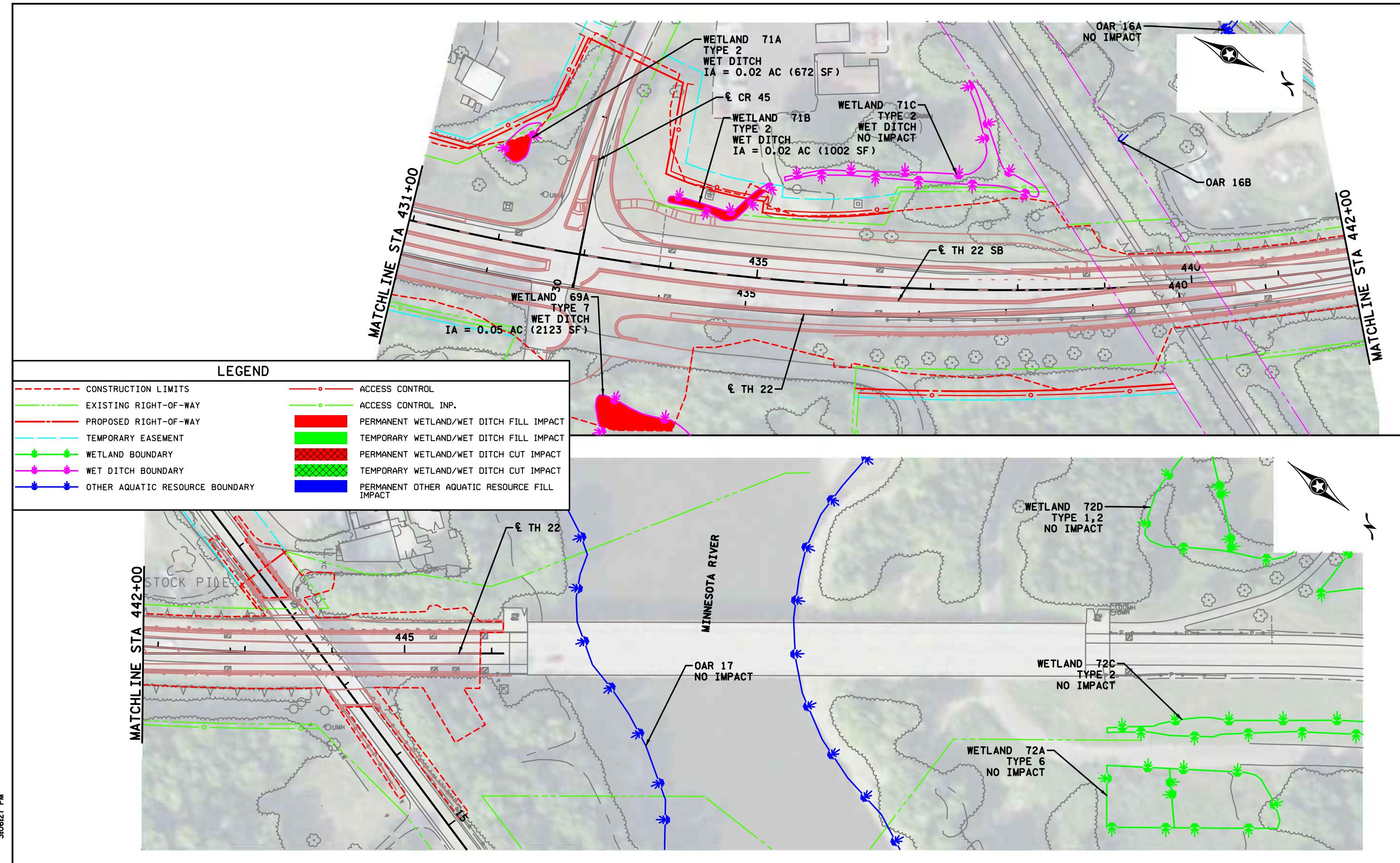
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
**ENGINEER SIGNATURE 1**  
AMANDA BERGSTROM  
LIC. NO. 52674  
DATE 10-04-2023

DESIGNED  
BJL/ARDB  
DRAWN  
BJL/OLC  
CHECKED  
ARDB/OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
WETLAND IMPACT MAPS

24  
OF  
30





3/28/2024

mndot\_road\_v8.Th22.ML.tbl

306227 PM

0 50 100  
SCALE FEET

P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\GDN\cd071435\_wet021.dgn

**RANI**  
engineering

REV.

BY

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.  
**ENGINEER SIGNATURE 1**  
AMANDA BERGSTROM  
LIC. NO. 52674  
DATE 10-04-2023

DESIGNED  
BY/JL/ARDB  
DRAWN  
BY/JL/OLC  
CHECKED  
ARDB/OLC

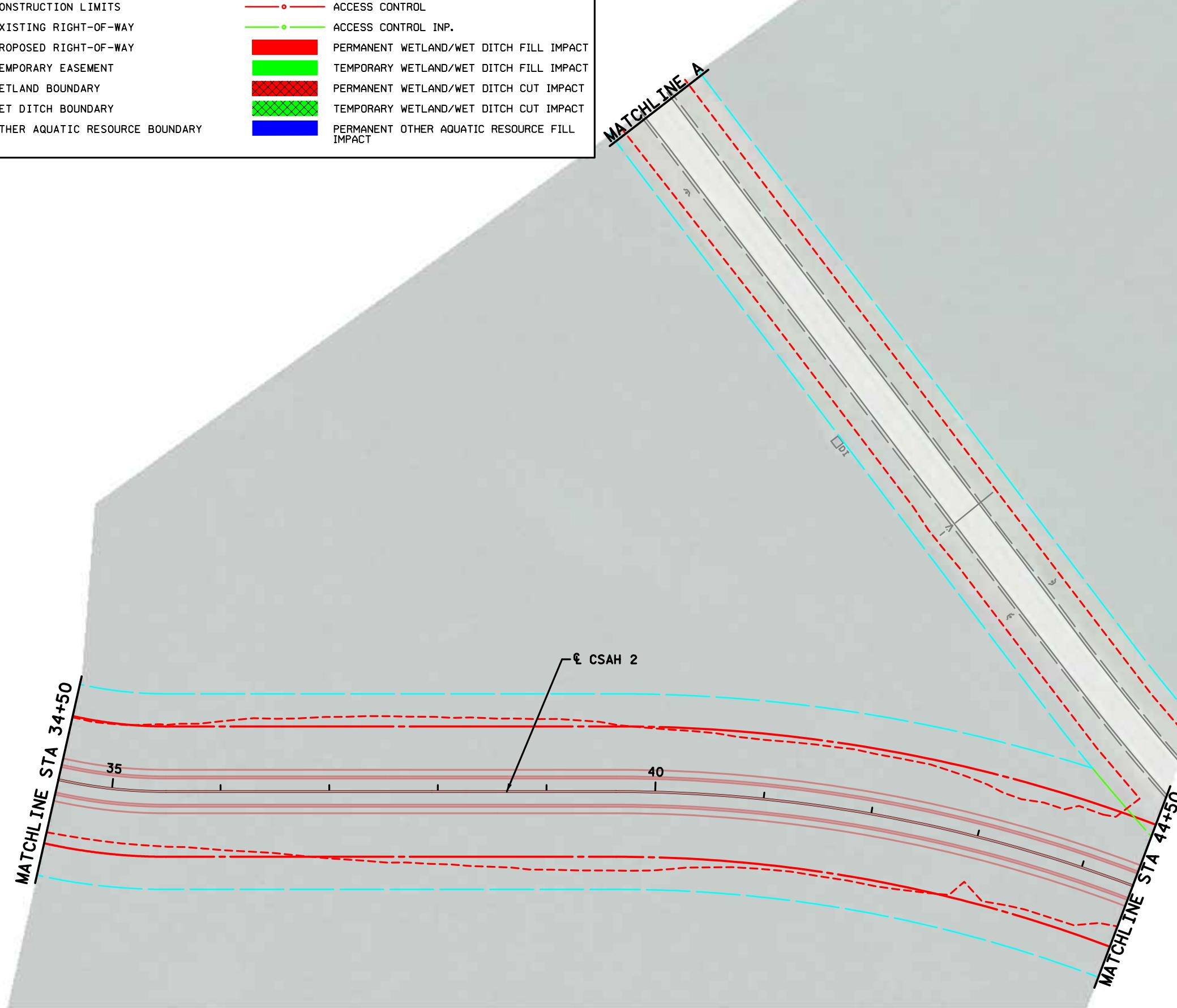
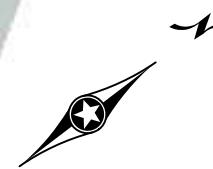
S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
WETLAND IMPACT MAPS

SHEET 26 OF 30

## LEGEND

CONSTRUCTION LIMITS	ACCESS CONTROL
EXISTING RIGHT-OF-WAY	ACCESS CONTROL INP.
PROPOSED RIGHT-OF-WAY	PERMANENT WETLAND/WET DITCH FILL IMPACT
TEMPORARY EASEMENT	TEMPORARY WETLAND/WET DITCH FILL IMPACT
WETLAND BOUNDARY	PERMANENT WETLAND/WET DITCH CUT IMPACT
WET DITCH BOUNDARY	TEMPORARY WETLAND/WET DITCH CUT IMPACT
OTHER AQUATIC RESOURCE BOUNDARY	PERMANENT OTHER AQUATIC RESOURCE FILL IMPACT

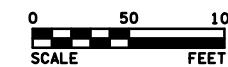
MATCHLINE A



mndot\_road\_v8.Th22\_ML.tbl

307123 PM

3/28/2024



P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\DGN\cd071435\_wet022.dgn

**RANI**  
engineering

REV.

BY

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.

**ENGINEER SIGNATURE 1**

AMANDA BERGSTROM  
LIC. NO. 52674

DATE 10-04-2023

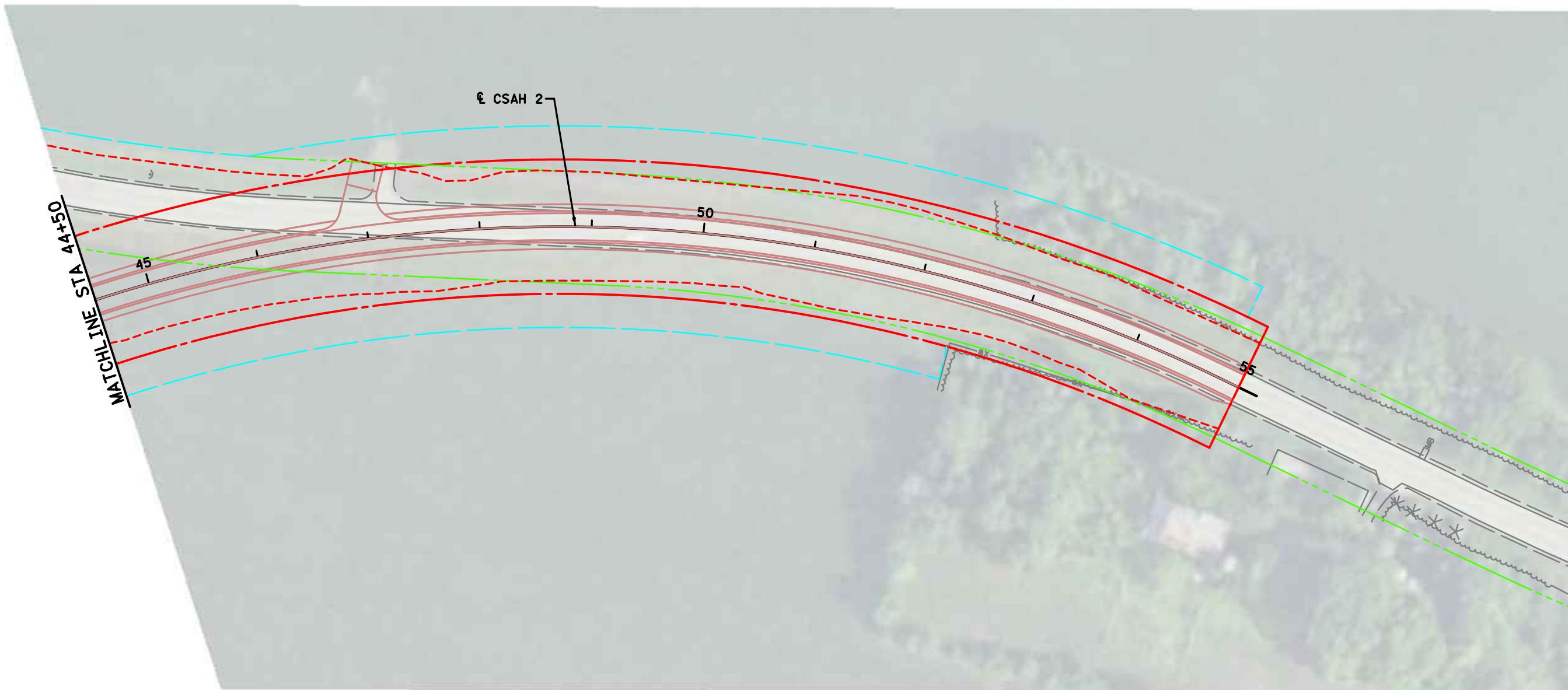
DESIGNED  
DRAWN  
B.JL./ARDB  
B.JL./OLC

CHECKED  
ARDB./OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
WETLAND IMPACT MAPS

SHEET  
27  
OF  
30

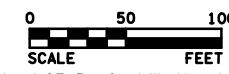
LEGEND	
CONSTRUCTION LIMITS	ACCESS CONTROL
EXISTING RIGHT-OF-WAY	ACCESS CONTROL INP.
PROPOSED RIGHT-OF-WAY	PERMANENT WETLAND/WET DITCH FILL IMPACT
TEMPORARY EASEMENT	TEMPORARY WETLAND/WET DITCH FILL IMPACT
WETLAND BOUNDARY	PERMANENT WETLAND/WET DITCH CUT IMPACT
WET DITCH BOUNDARY	TEMPORARY WETLAND/WET DITCH CUT IMPACT
OTHER AQUATIC RESOURCE BOUNDARY	PERMANENT OTHER AQUATIC RESOURCE FILL IMPACT



mndot\_road\_v8.Th22\_ML.tbl

30747 PM

3/28/2024



P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\GDN\cd071435\_wet023.dgn

**RANI**  
engineering

REV.

BY

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.

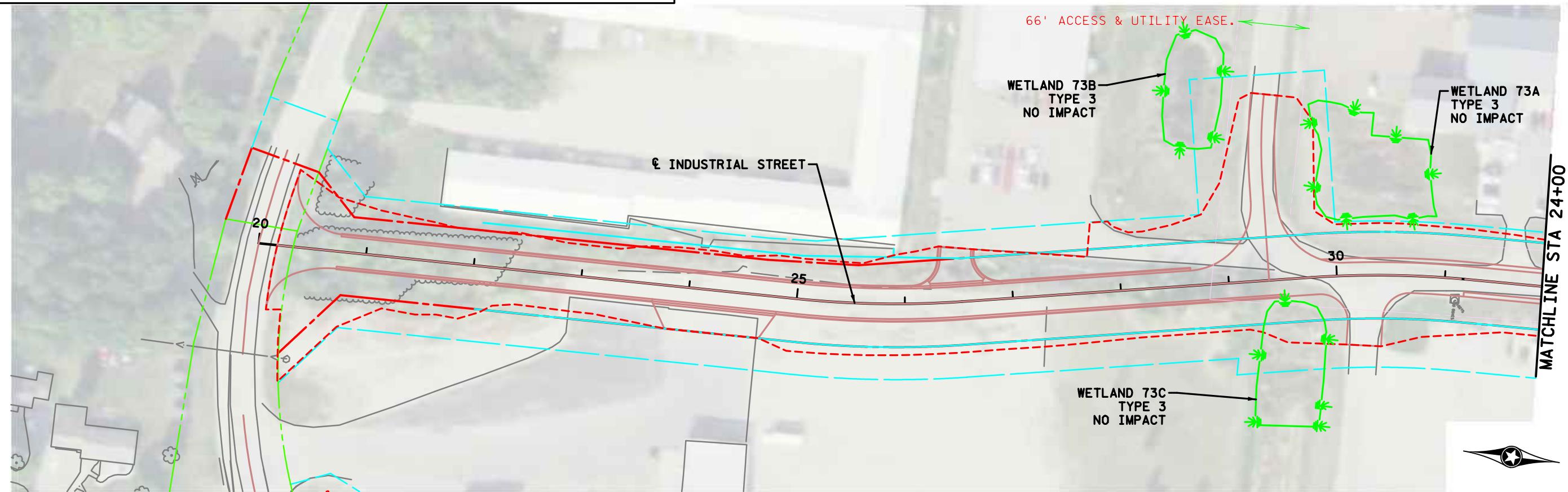
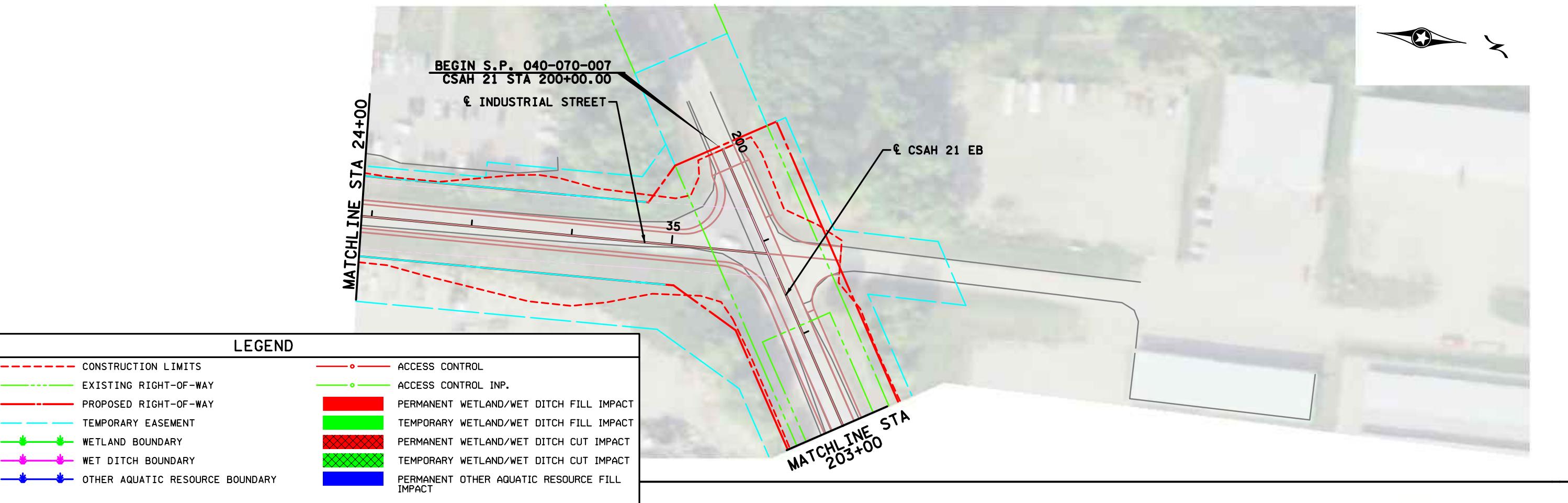
**ENGINEER SIGNATURE 1**  
AMANDA BERGSTROM  
LIC. NO. 52674 DATE 10-04-2023

DESIGNED  
DRAWN  
B.J.L./ARDB  
B.J.L./OLC

CHECKED  
ARDB/OLC

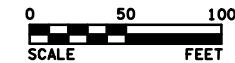
S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
WETLAND IMPACT MAPS

28  
OF  
30



mndot\_road\_v8.Th22.ML.tbl

\*PLTDRV5 PM

-USERNAME\_-  
3/28/2024

P:\2021.10.003 MnDOT TH 22 Mankato to St. Peter\03 Design\Wetland Permitting\GDN\cd071435\_wet024.dgn



REV.

BY

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.

**ENGINEER SIGNATURE 1**

AMANDA BERGSTROM  
LIC. NO. 52674

DATE 10-04-2023

DESIGNED

BJL/ARDB

DRAWN

BJL/OLC

CHECKED

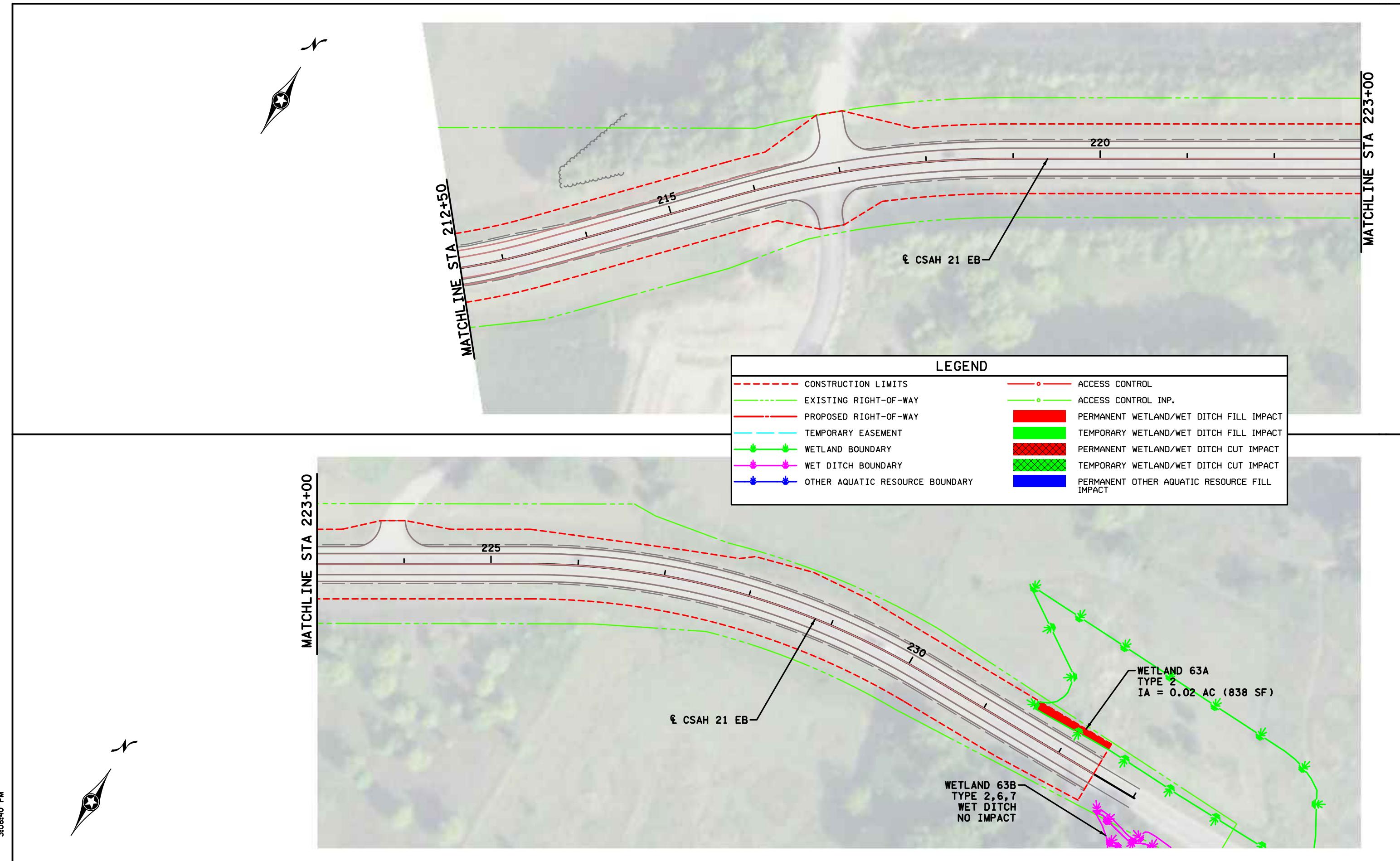
ARDB/OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007

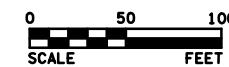
T.H. 22 RECONSTRUCTION

WETLAND IMPACT MAPS

SHEET  
29  
OF  
30



mndot\_road\_v8.Th22\_ML.tbl

JPLTDRVS\*  
3:08:40 PM-USERNAME\_-  
3/28/2024

**RANI**  
engineering

REV.

BY

DATE

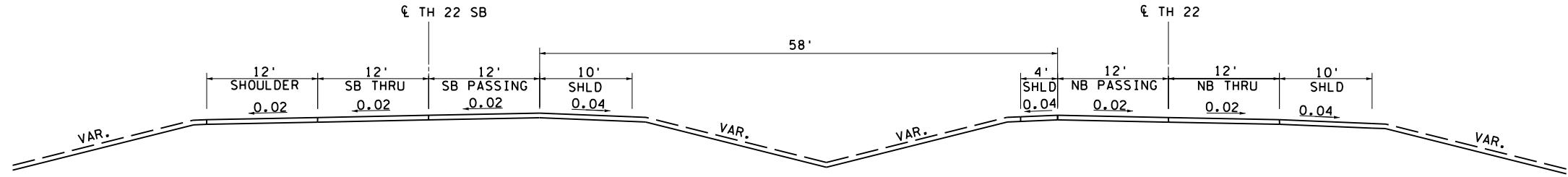
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
**ENGINEER SIGNATURE 1**  
AMANDA BERGSTROM  
LIC. NO. 52674 DATE 10-04-2023

DESIGNED  
BJL/ARDB  
DRAWN  
BJL/OLC  
CHECKED  
ARDB/OLC

S.P. 0714-35, S.P. 4012-40, S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
WETLAND IMPACT MAPS

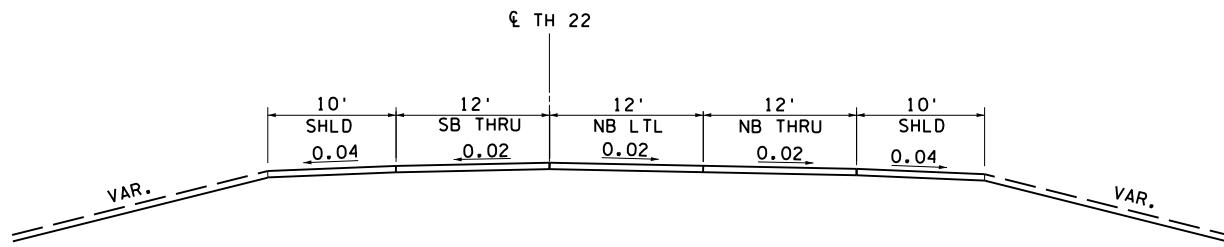
GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.

EXISTING TYPICAL SECTION - TH 22  
TH 22 STA 85+00

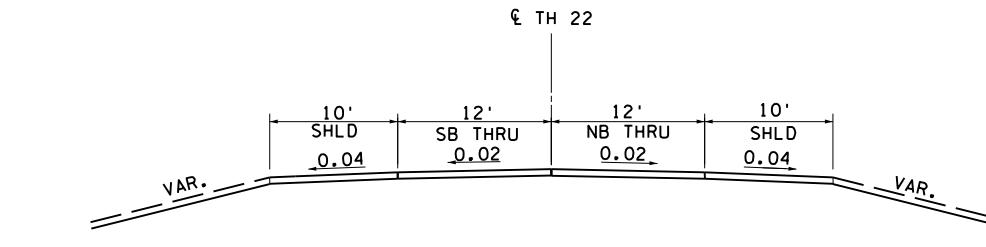


TH 22 EXISTING PAVEMENT SURFACE	
ROADWAY	APPROX. THICKNESSES
BITUMINOUS	11"
NON REINFORCED DOWELED CONCRETE PAVEMENT	9"-7"-9"

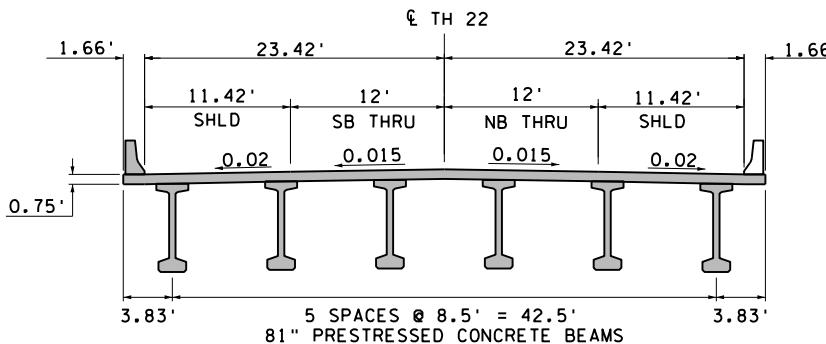
EXISTING TYPICAL SECTION - TH 22  
TH 22 STA 110+00



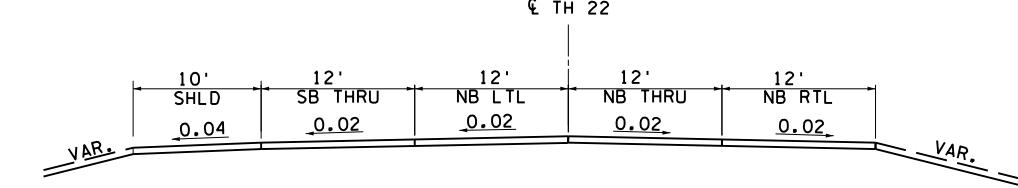
EXISTING TYPICAL SECTION - TH 22  
TH 22 STA 150+00



EXISTING TYPICAL SECTION - TH 22  
BRIDGE 07036 OVER CP RAIL  
TH 22 STA 159+51 TO 163+44



EXISTING TYPICAL SECTION - TH 22  
TH 22 STA 249+00

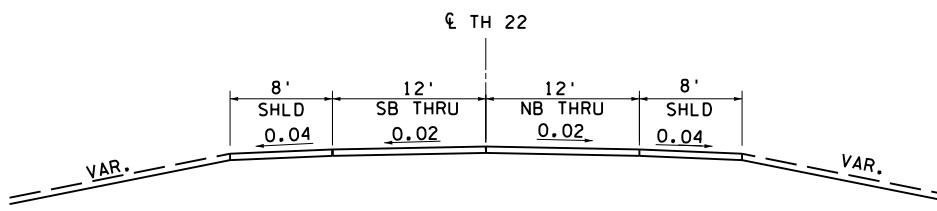


bmi.tbl

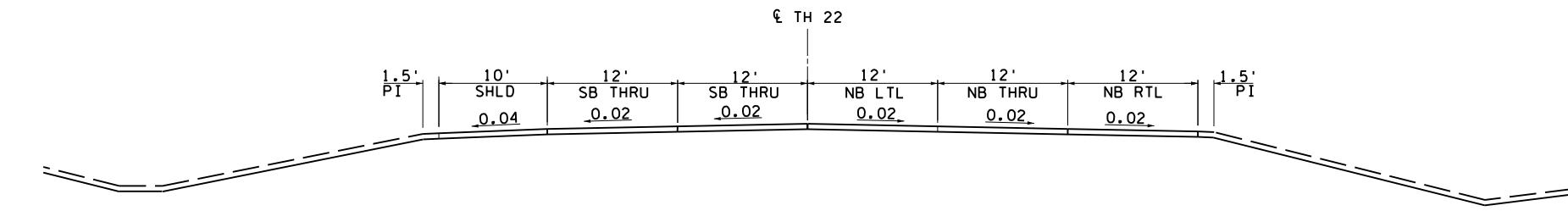
pdf-B and W.pltcfg  
258:47 PMdarrente  
2/1/2024

GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSETS.

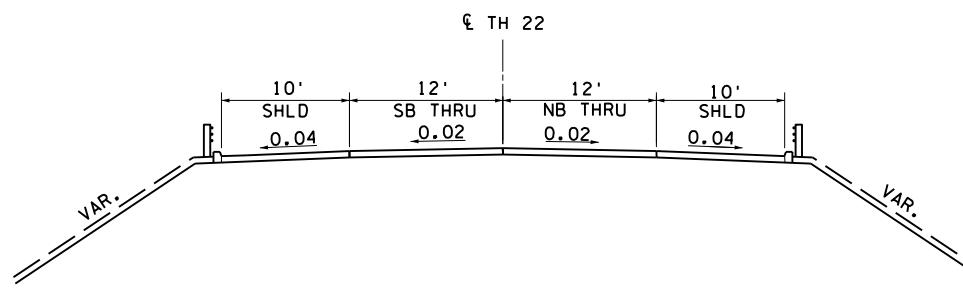
EXISTING TYPICAL SECTION - TH 22  
TH 22 STA 265+00



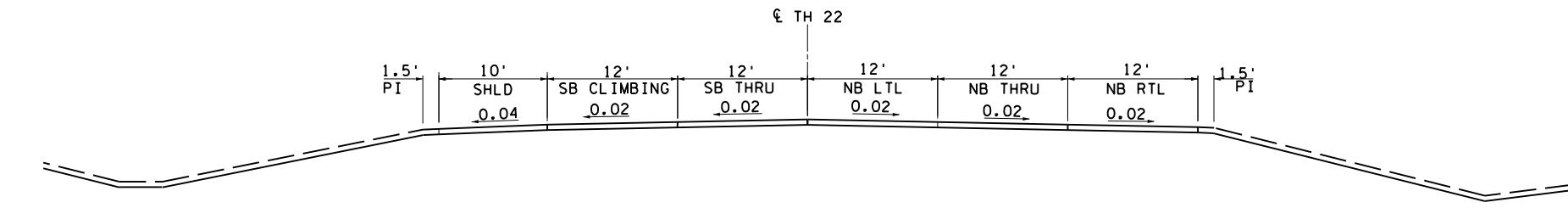
EXISTING TYPICAL SECTION - TH 22  
TH 22 STA 390+00



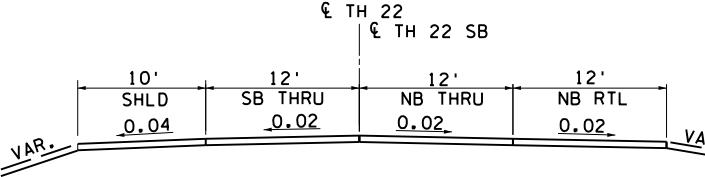
EXISTING TYPICAL SECTION - TH 22  
DEEP FILL  
TH 22 STA 295+00



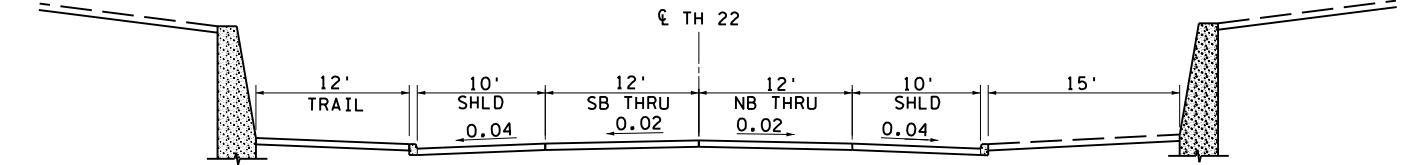
EXISTING TYPICAL SECTION - TH 22  
TH 22 STA 420+00



EXISTING TYPICAL SECTION - TH 22  
TH 22 STA 300+00

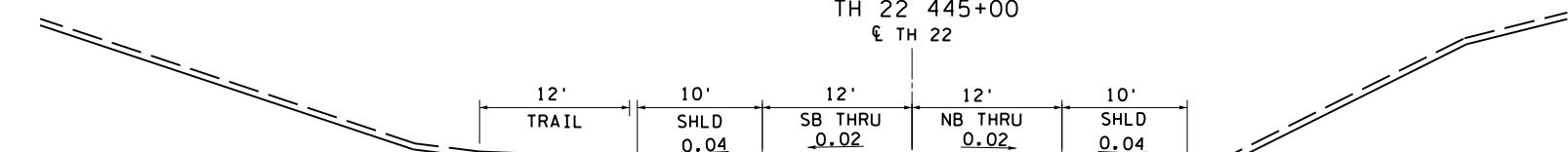


EXISTING TYPICAL SECTION - TH 22  
TH 22 STA 442+00



TH 22 EXISTING PAVEMENT SURFACE	
ROADWAY	APPROX. THICKNESSES
BITUMINOUS	11"
NON REINFORCED DOWELED CONCRETE PAVEMENT	9'-7"-9"

EXISTING TYPICAL SECTION - TH 22  
TH 22 445+00

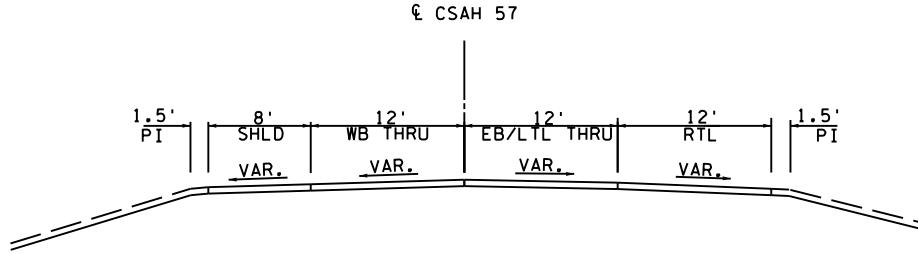


bmi.tbi

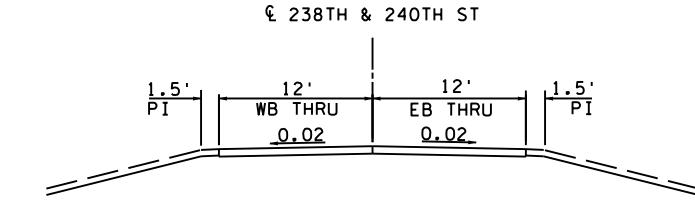
pdf-B and W.pltcfg  
258:49 PMdarrente  
2/1/2024

GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSETS.

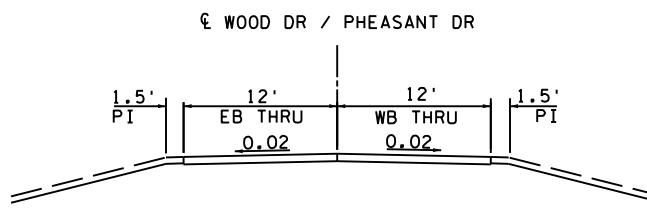
EXISTING TYPICAL SECTION - CSAH 57  
CSAH 57 STA 30+00 TO 35+00



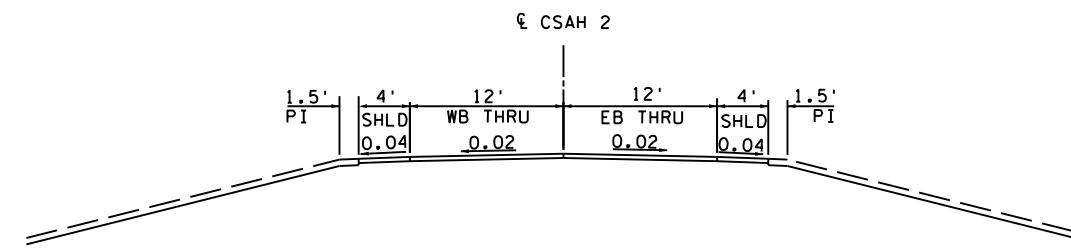
EXISTING TYPICAL SECTION - 238TH ST & 240 TH ST  
238TH STA 30+23 TO 31+64 & 240TH STA 31+24 TO 33+77, STA 33+77 TO 36+65



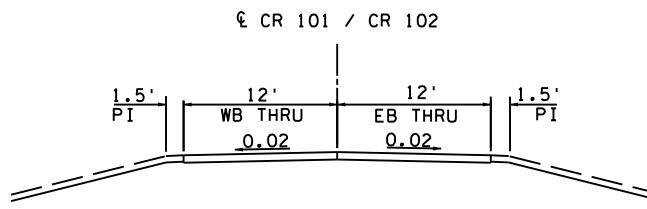
EXISTING TYPICAL SECTION - WOOD DR, PHEASANT DR



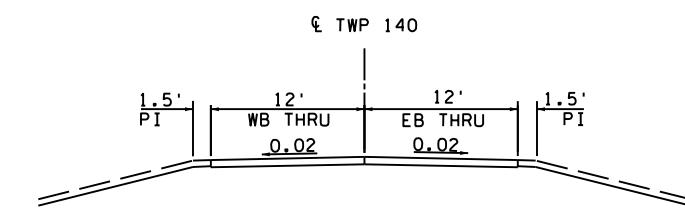
EXISTING TYPICAL SECTION - CSAH 2  
PHEASANT DR STA 30+00 TO 55+00



EXISTING TYPICAL SECTION - CR 101, CR 102  
CR 101 STA 30+00 TO 36+00



EXISTING TYPICAL SECTION - TWP 140  
TWP 140 STA 30+00 TO 37+00



bmi.tbl

pdf-B and W.pltcfg  
258:50 PMdarrente  
2/1/2024

H:\MDOT\_D7\0T4M00140\CAD\MS\plans\Typicals\cd071435\_ts006.dgn



12224 NICOLLET AVENUE  
BURNSVILLE, MINNESOTA 55337  
Phone: (952) 890-0509  
Email: Burnsville@bolton-menk.com  
www.bolton-menk.com

REV.	BY	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.  
*Justin Schmidt*  
 JUSTIN PAUL SCHMIDT  
 LIC. NO. 48755 DATE 01-12-2024

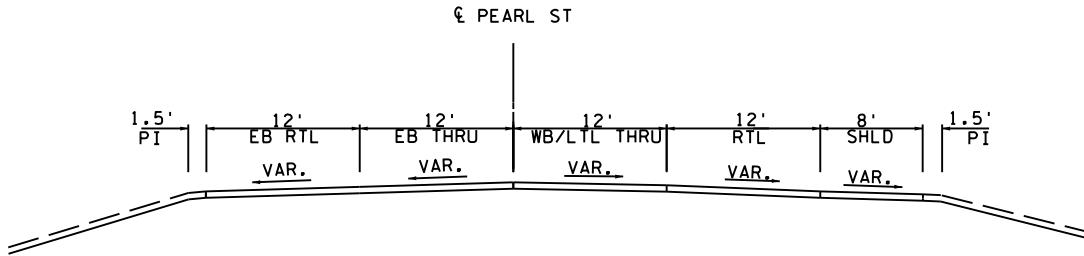
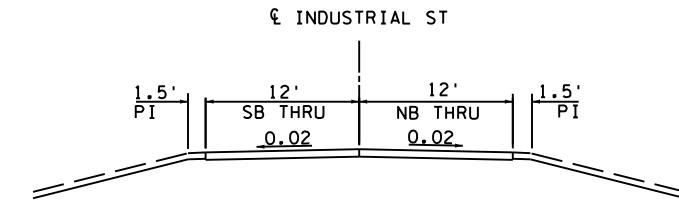
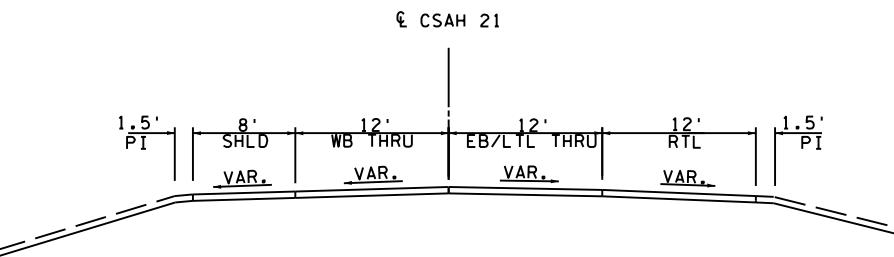
DESIGNED  
BAU  
DRAWN  
BDJ  
CHECKED  
JPS

S.P. 0714-35 (TH22), S.P. 4012-44 (TH22), S.P. 040-070-007  
 T.H. 22 RECONSTRUCTION  
 TYPICAL SECTIONS

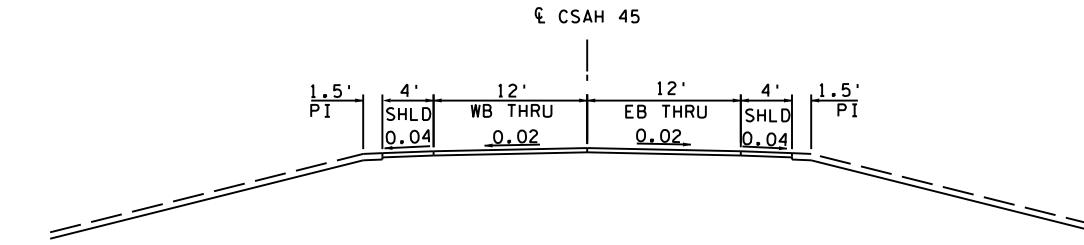
38  
OF  
661

GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSETS.

EXISTING TYPICAL SECTION - E PEARL ST

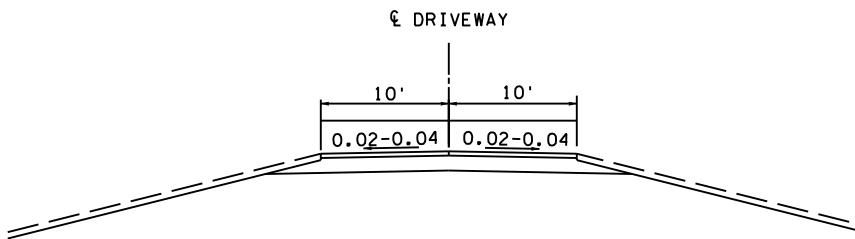
EXISTING TYPICAL SECTION - INDUSTRIAL ST  
CR 101 STA 20+00 TO 36+00EXISTING TYPICAL SECTION - CSAH 21  
CSAH 21 STA 200+00 TO 232+50

EXISTING TYPICAL SECTION - CSAH 45



EXISTING TYPICAL SECTION - DRIVEWAY W 1-3, E 3-4

DW W1 STA 30+67 TO 35+59  
DW E3 STA 20+00 TO 22+99  
DW W2 STA 20+00 TO 22+10  
DW W3 STA 20+00 TO 24+00  
DW E4 STA 20+00 TO 21+62  
DW E5 STA 20+00 TO 29+37



bmi.tbl

pdf-B and W.pltcfg  
258:50 PMdarrente  
2/1/2024

H:\MDOT\_D7\0T4M00140\CAD\MS\plans\Typicals\cd071435\_ts007.dgn



12224 NICOLLET AVENUE  
BURNSVILLE, MINNESOTA 55337  
Phone: (952) 890-0509  
Email: Burnsville@bolton-menk.com  
www.bolton-menk.com

REV.	BY	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.  
*Justin Schmidt*  
 JUSTIN PAUL SCHMIDT  
 LIC. NO. 48755 DATE 01-12-2024

DESIGNED  
BAU  
DRAWN  
BDJ  
CHECKED  
JPS

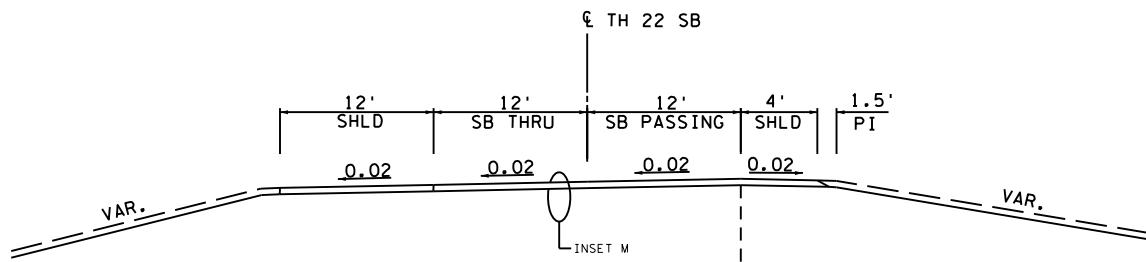
S.P. 0714-35 (TH22), S.P. 4012-44 (TH22), S.P. 040-070-007  
 T.H. 22 RECONSTRUCTION  
 TYPICAL SECTIONS

39  
OF  
661

GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.

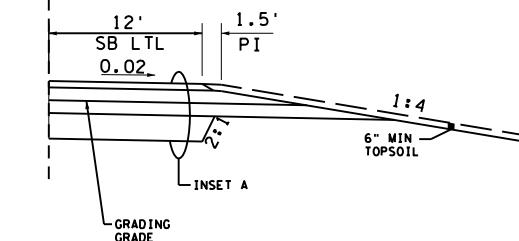
PROPOSED TYPICAL SECTION - TH 22 SB  
SOUTHBOUND MILL AND OVERLAY

TH 22 SB STA 36+67 TO 92+81



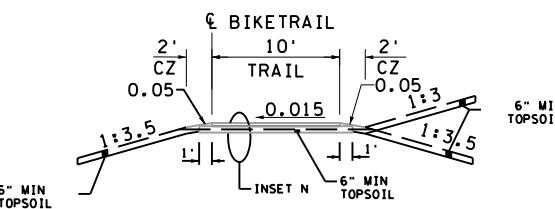
RECONSTRUCT  
SB LEFT TURN LANE

TH 22 SB STA 50+63 TO 56+74 RT  
TH 22 SB STA 58+99 TO 65+06 RT  
TH 22 SB STA 80+98 TO 87+06 RT



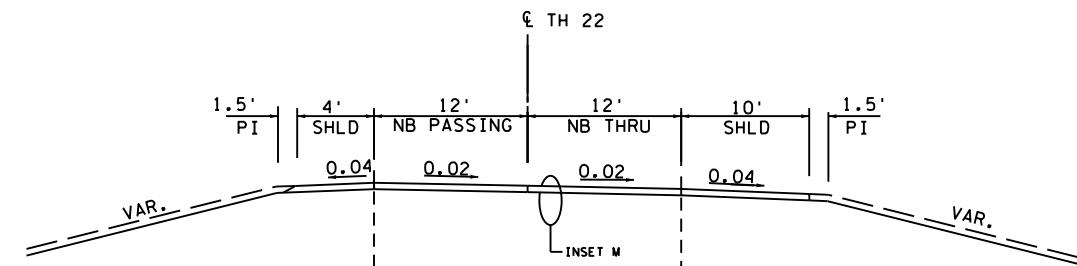
PROPOSED TYPICAL SECTION - BIKE TRAIL

TH 22 STA 39+64 TO 87+42  
BIKE TRAIL STA 500+00 TO 550+45



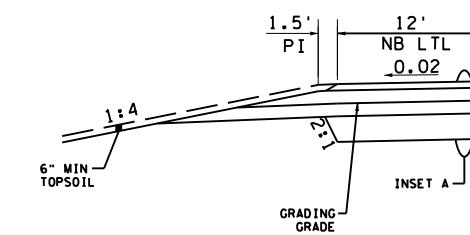
PROPOSED TYPICAL SECTION - TH 22  
NORTHBOUND MILL AND OVERLAY

TH 22 STA 36+10 TO 87+42



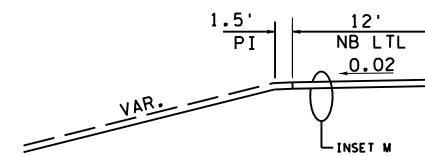
RECONSTRUCT  
NB LEFT TURN LANE

TH 22 STA 42+13 TO 48+14 LT  
TH 22 STA 50+53 TO 52+47 LT



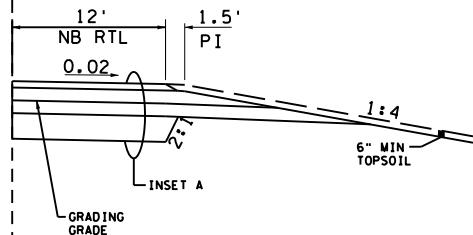
MILL & OVERLAY  
NB LEFT TURN LANE

TH 22 STA 52+47 TO 56+61 LT



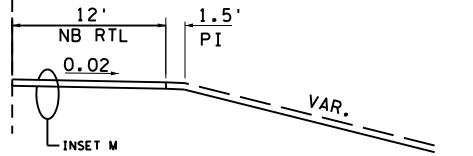
RECONSTRUCT  
NB RIGHT TURN LANE

TH 22 STA 51+50 TO 57+30 RT



MILL & OVERLAY  
NB RIGHT TURN LANE

TH 22 STA 42+35 TO 48+64 RT  
TH 22 STA 73+79 TO 80+54 RT

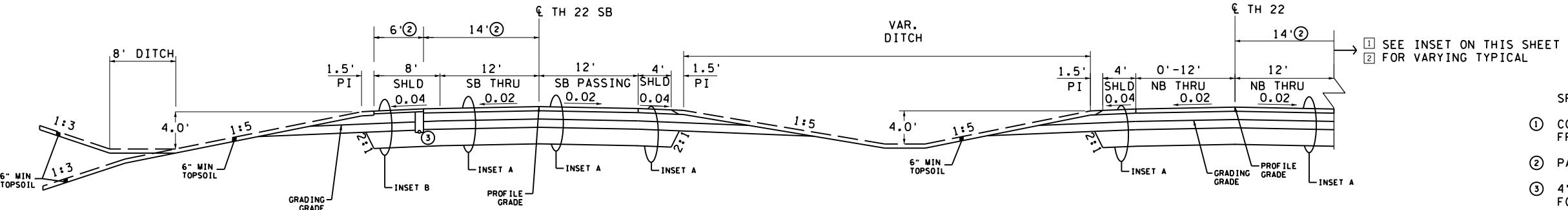


bmi.tbi

pdf-B and W.pltcfg  
25851 PMdarrente  
2/1/2024

**PROPOSED TYPICAL SECTION - TH 22  
DIVIDED ROADWAY**

TH 22 STA 87+42 TO 102+80 & TH 22 SB STA 92+81 TO 102+81

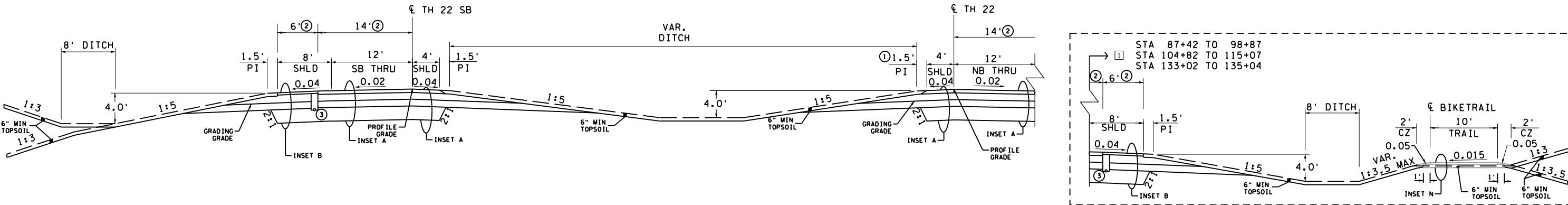


GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.

**PROPOSED TYPICAL SECTION - TH 22  
DIVIDED ROADWAY**

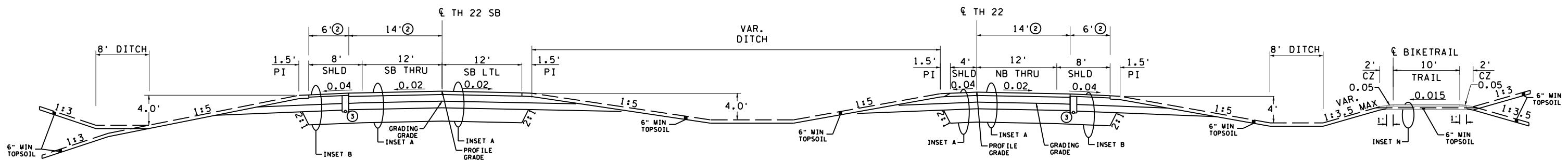
TH 22 STA 102+80 TO 104+82 & 111+37 TO 115+07 & 133+02 TO 135+04  
TH 22 SB STA 102+81 TO 104+83 & 111+62 TO 115+09 & 133+53 TO 135+55

→ [1] SEE INSET ON THIS SHEET  
[2] FOR VARYING TYPICAL



**PROPOSED TYPICAL SECTION - TH 22  
DIVIDED ROADWAY**

TH 22 STA 104+82 TO 111+37 & TH 22 SB STA 104+83 TO 111+62



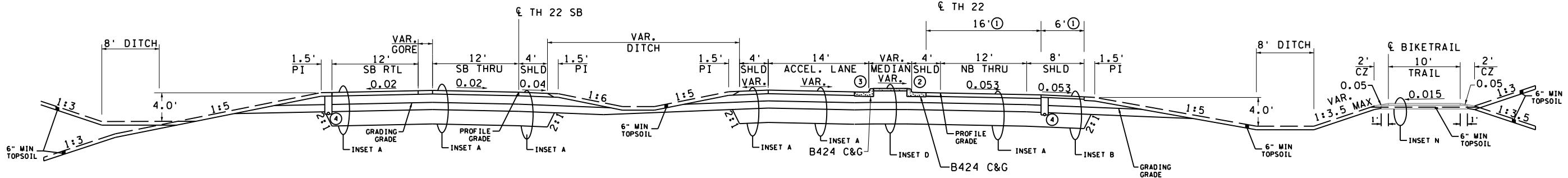
GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.

## SPECIFIC NOTES:

- ① PAVING WIDTHS.
- ② GUTTER OUT FOR TH22 THRU LANE NORTH STA 115+07 TO STA 118+90
- ③ GUTTER OUT FOR TH22 ACCEL LANE NORTH STA 115+15 TO STA 117+00
- ④ 4" SUBSURFACE DRAIN. SEE SHEETS 92-94 FOR DETAILS, SEE DRAINAGE PLANS FOR ROUTING.

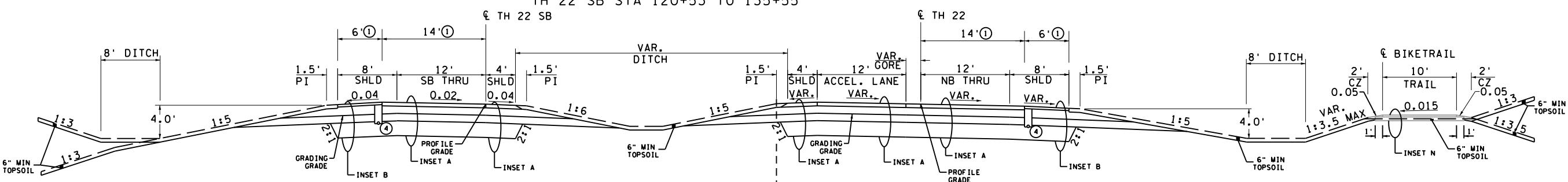
**PROPOSED TYPICAL SECTION - TH 22  
DIVIDED ROADWAY WITH NB ACCELERATION LANE**

TH 22 STA 115+07 TO 118+90  
TH 22 SB STA 115+09 TO 120+53



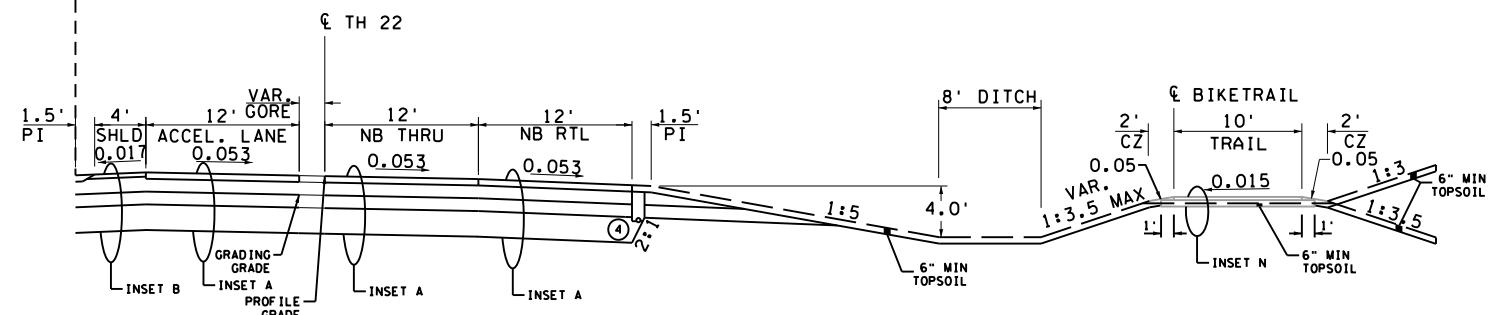
**PROPOSED TYPICAL SECTION - TH 22  
DIVIDED ROADWAY WITH NB ACCELERATION LANE**

TH 22 STA 118+90 TO 135+04  
TH 22 SB STA 120+53 TO 135+55



**NB RIGHT TURN LANE**

TH 22 STA 121+79 TO 127+89

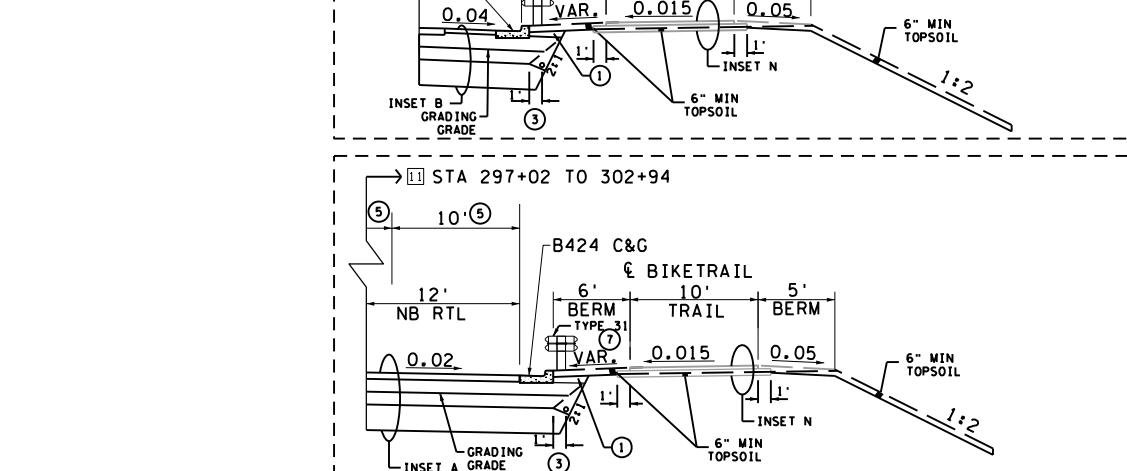
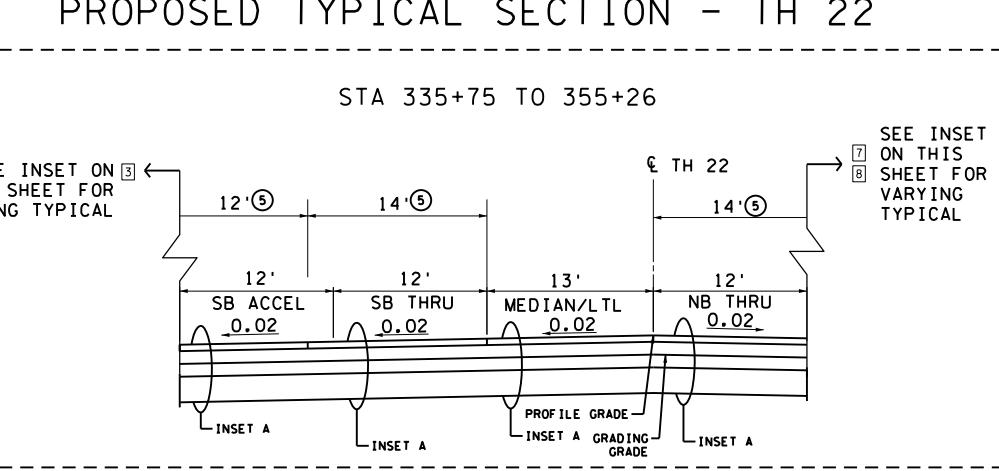
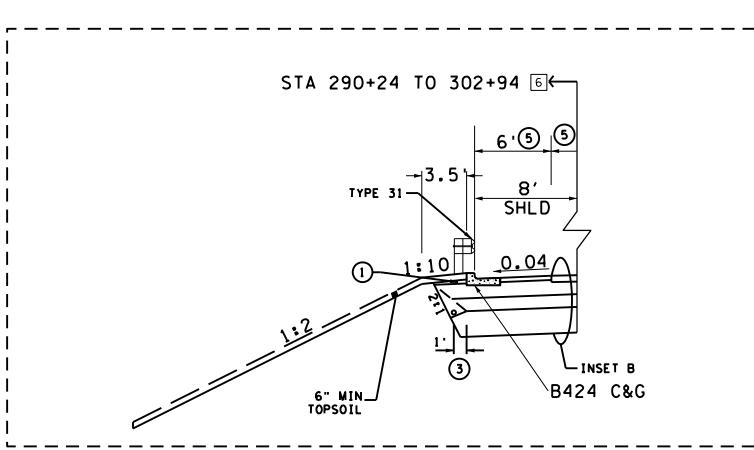
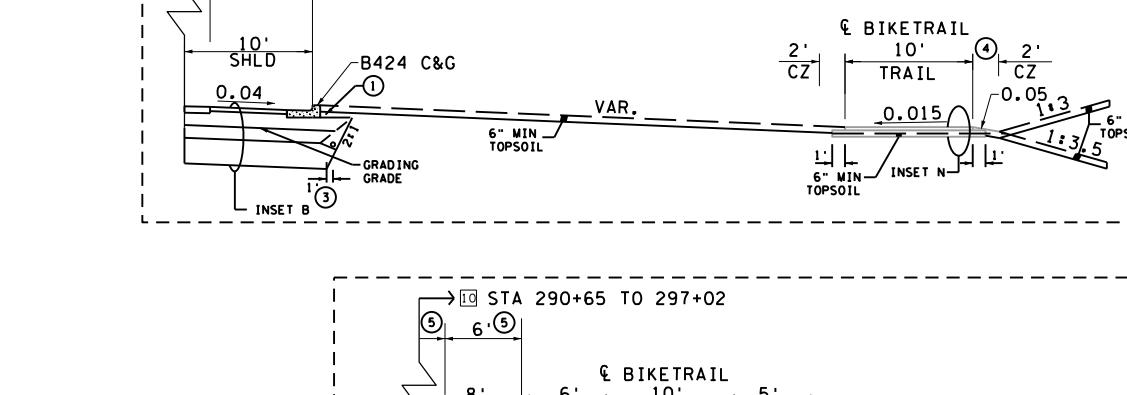
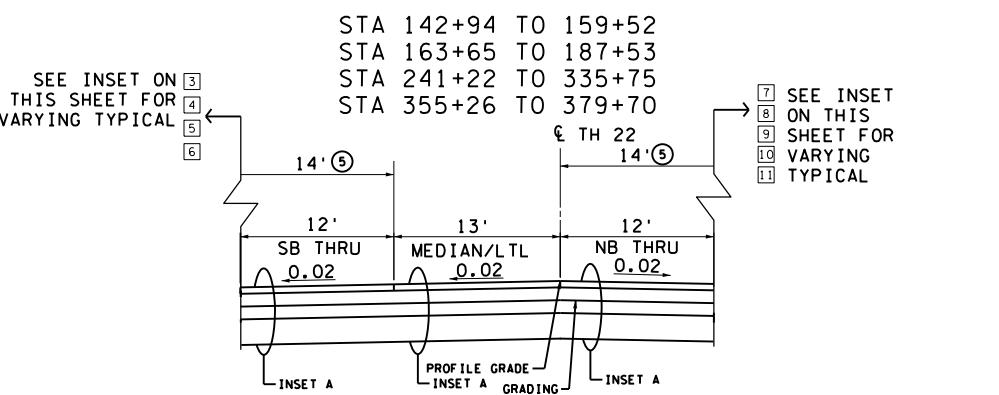
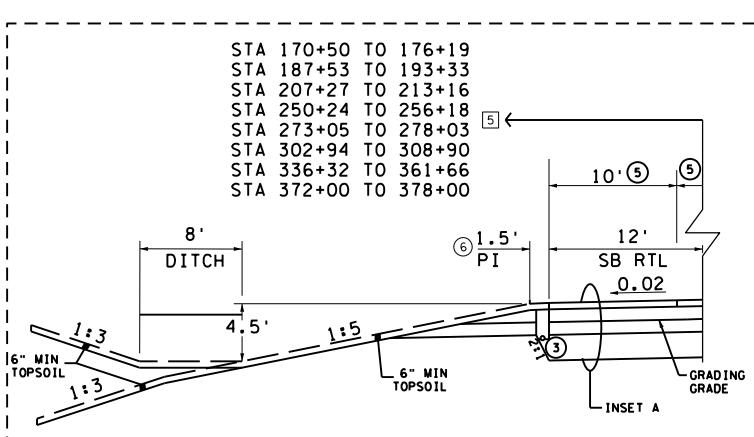
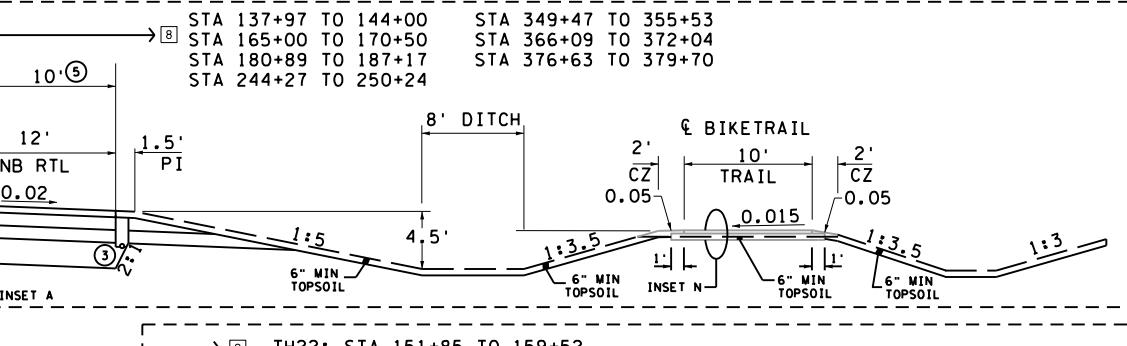
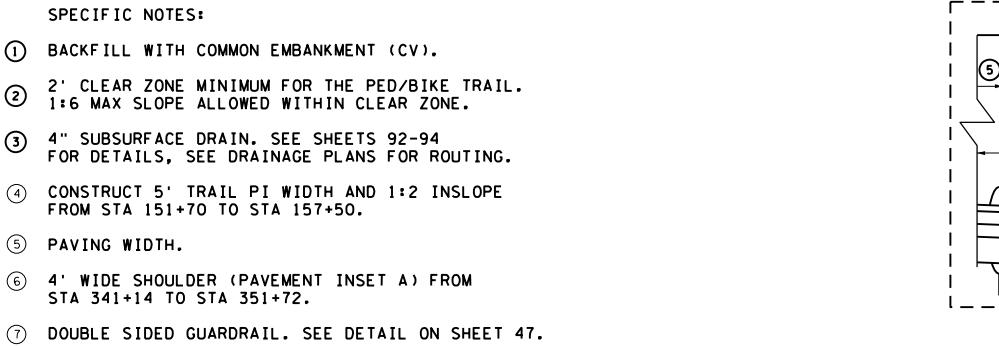
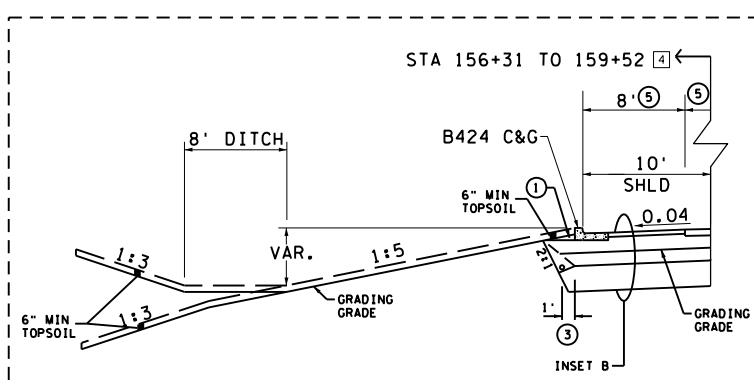
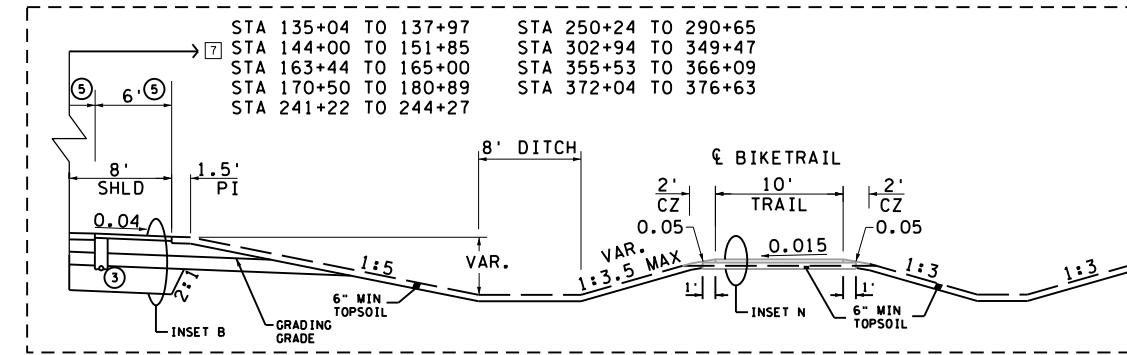
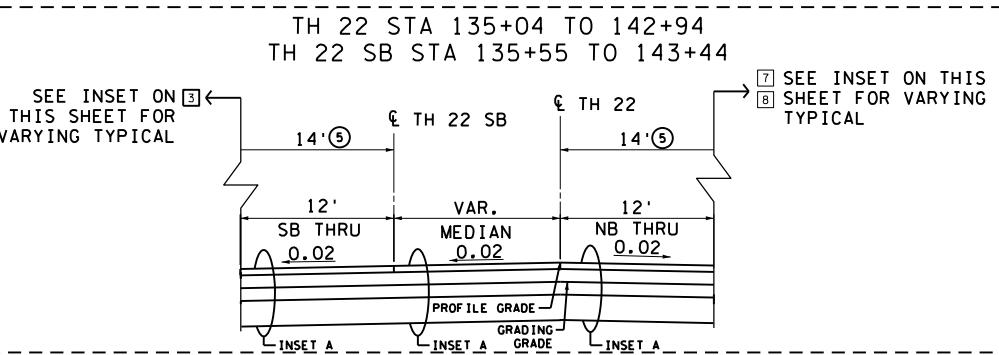
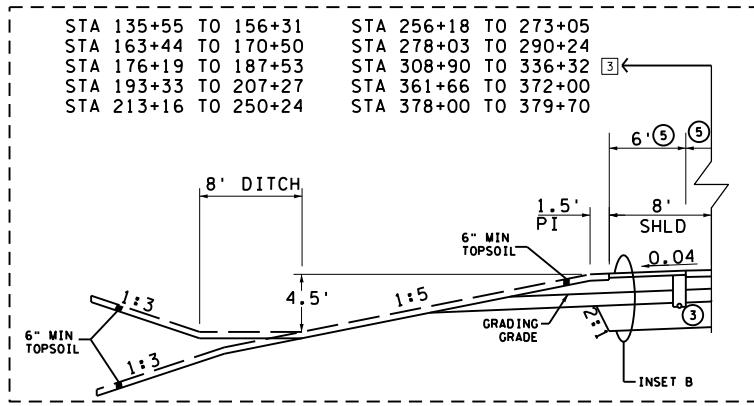


bmi.tbl

pdf-B and W.pdfcfg  
25853 PMdarrente  
2/1/2024

## PROPOSED TYPICAL SECTION - TH 22

GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.



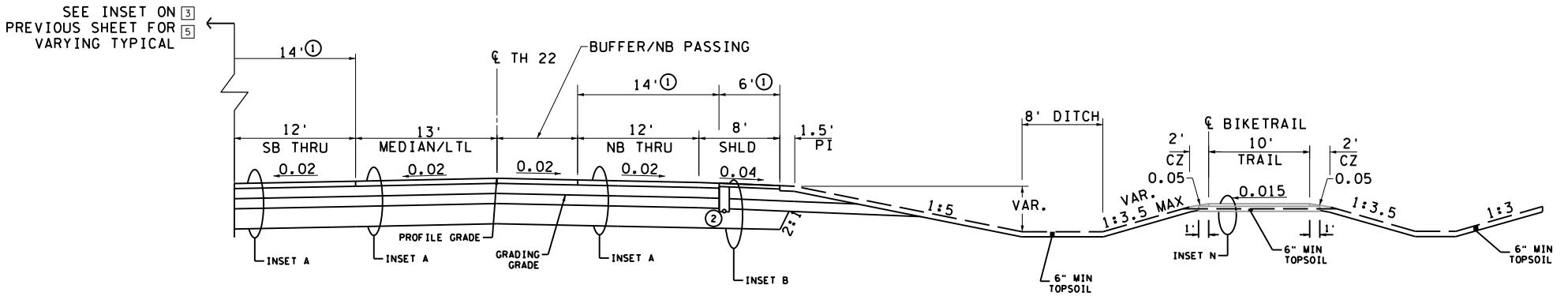
GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.

## SPECIFIC NOTES:

- ① PAVING WIDTHS.
- ② 4" SUBSURFACE DRAIN. SEE SHEETS 92-94 FOR DETAILS, SEE DRAINAGE PLANS FOR ROUTING.

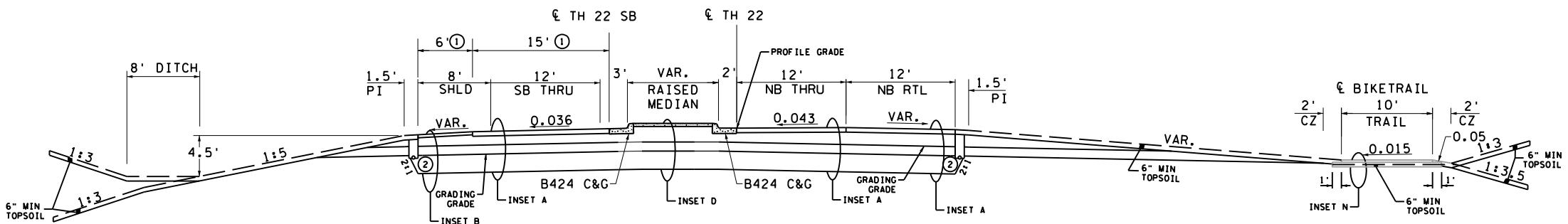
PROPOSED TYPICAL SECTION - TH 22  
NB PASSING LANE

TH 22 STA 187+17 TO 241+22



PROPOSED TYPICAL SECTION - TH 22

TH 22 STA 379+70 TO 381+13



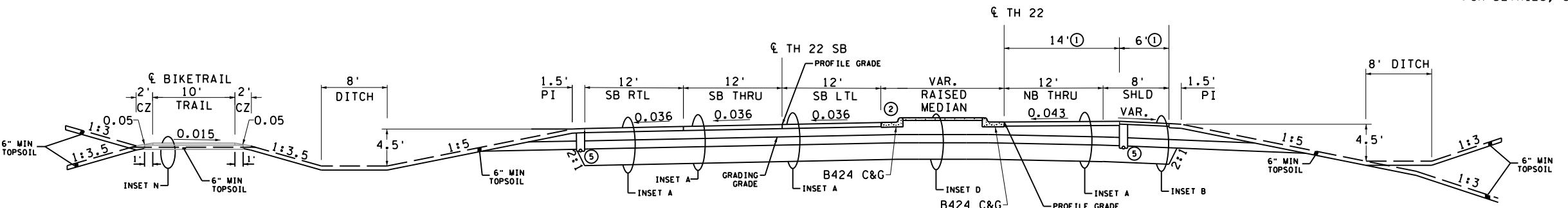
GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSETS.

## SPECIFIC NOTES:

- ① PAVING WIDTHS.
- ② GUTTER OUT FOR TH22 SB LTL STA 382+76 TO STA 388+36
- ③ GUTTER OUT FOR TH22 NB STA 391+43 TO STA 398+22
- ④ GUTTER OUT FOR TH22 SB STA 395+27 TO STA 398+15
- ⑤ 4" SUBSURFACE DRAIN. SEE SHEETS 92-94  
FOR DETAILS, SEE DRAINAGE PLANS FOR ROUTING.

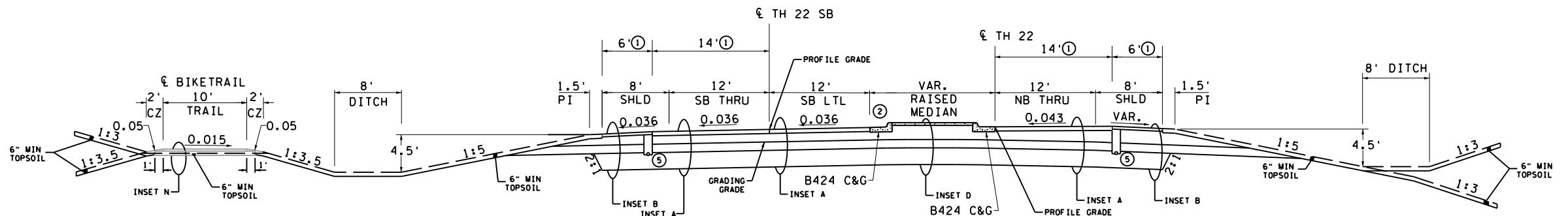
## PROPOSED TYPICAL SECTION - TH 22

TH 22 STA 381+13 TO 386+14



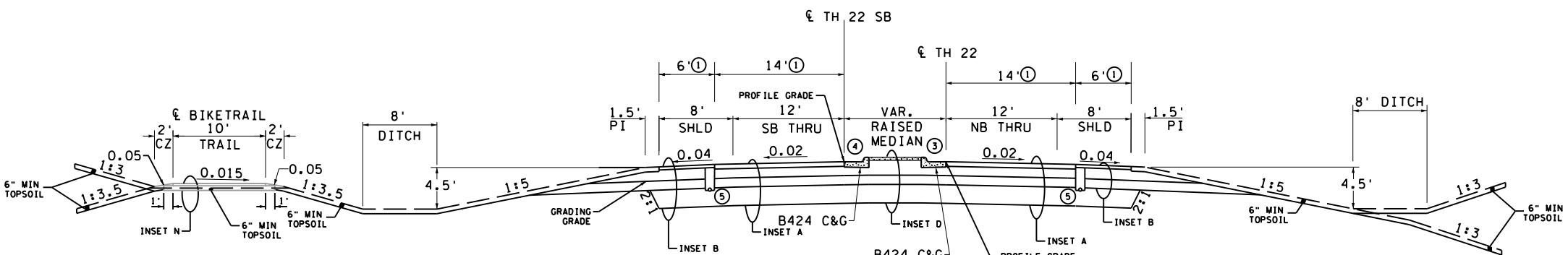
## PROPOSED TYPICAL SECTION - TH 22

TH 22 STA 386+14 TO 389+14



## PROPOSED TYPICAL SECTION - TH 22

TH 22 STA 389+14 TO 396+62



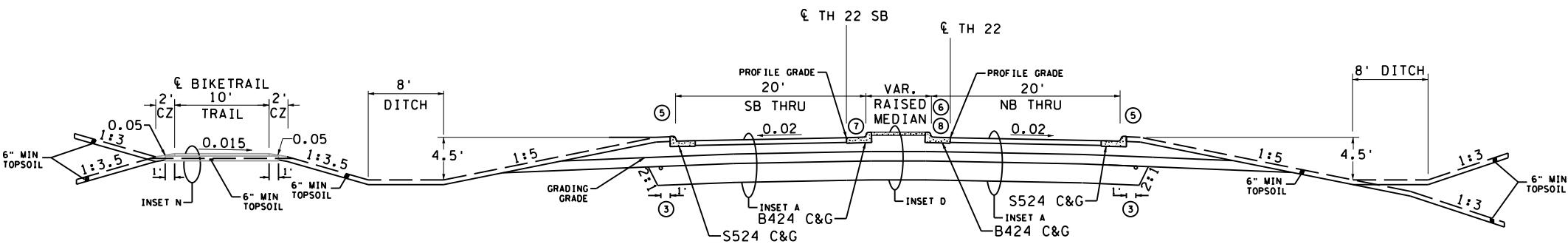
## PROPOSED TYPICAL SECTION - TH 22

TH 22 STA 396+62 TO 398+25  
TH 22 STA 400+31 TO 403+15

GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.

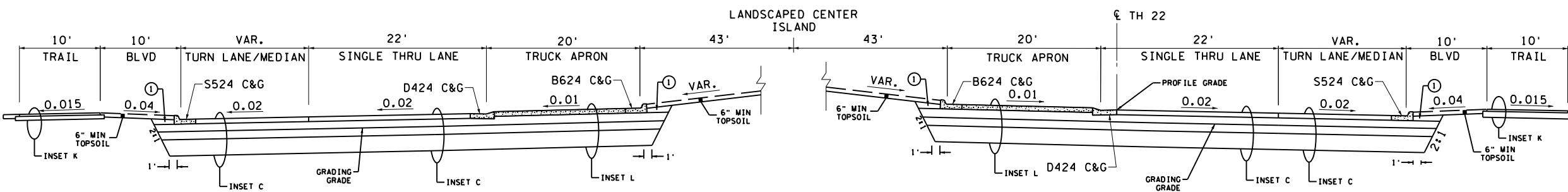
## SPECIFIC NOTES:

- ① BACKFILL WITH COMMON EMBANKMENT (CV).
- ② 2' CLEAR ZONE MINIMUM FOR THE PED/BIKE TRAIL.  
1:6 MAX SLOPE ALLOWED WITHIN CLEAR ZONE.
- ③ 4" SUBSURFACE DRAIN. SEE SHEETS 92-94  
FOR DETAILS, SEE DRAINAGE PLANS FOR ROUTING.
- ④ PAVING WIDTH
- ⑤ SEE CONSTRUCTION PLANS FOR CURB TERMINI.
- ⑥ GUTTER OUT FOR TH22 NB STA 391+43 TO STA 398+22
- ⑦ GUTTER OUT FOR TH22 SB STA 395+27 TO STA 398+15
- ⑧ GUTTER OUT FOR TH22 NB STA 400+32 TO STA 403+11
- ⑨ CONSTRUCT TRAIL PI WITH 5' WIDTH AND 1:6  
SLOPE FROM STA 403+40 TO 404+40



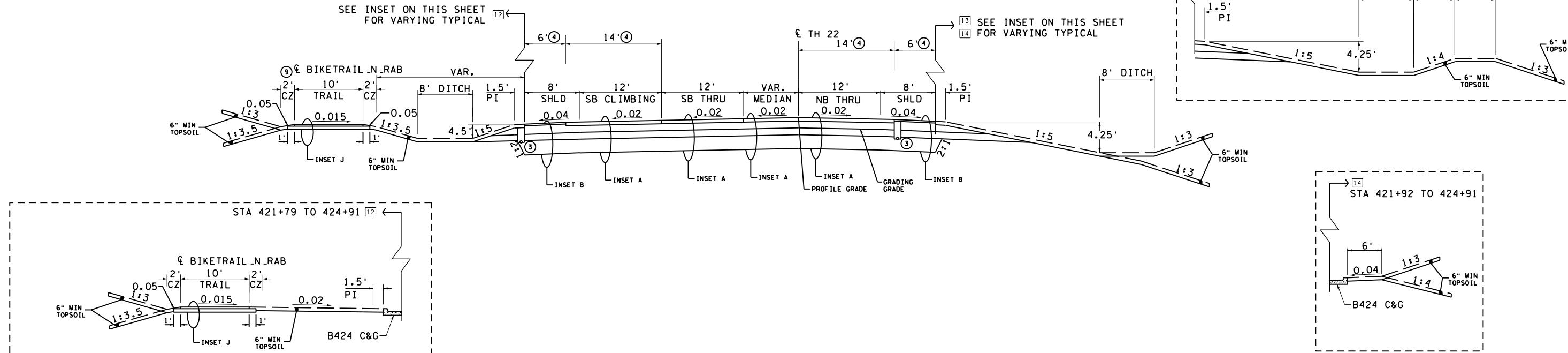
## PROPOSED TYPICAL SECTION - TH 22

TH 22 ROUNDABOUT



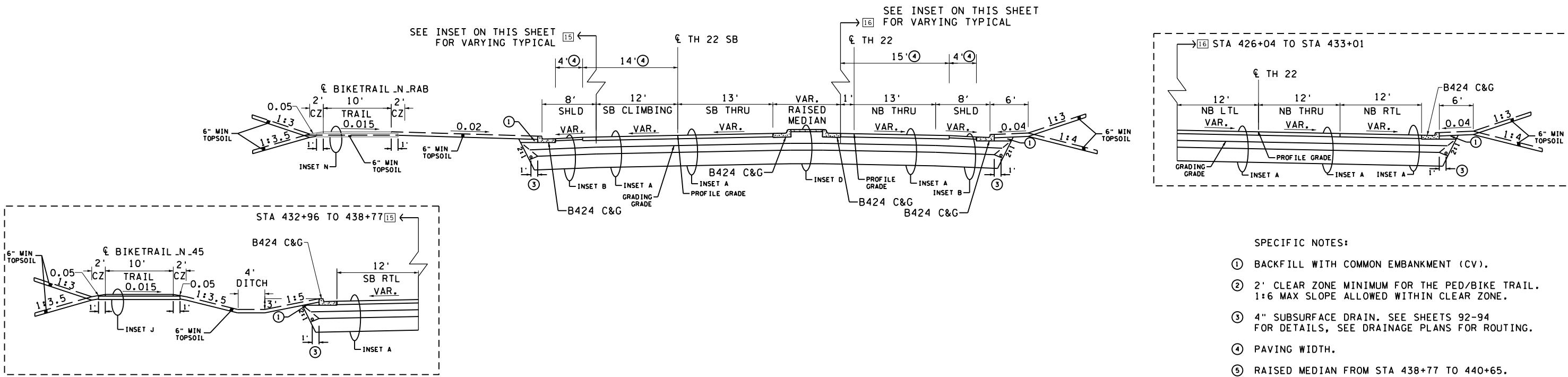
## PROPOSED TYPICAL SECTION - TH 22

TH 22 STA 403+15 TO 424+91



GENERAL NOTES:  
SEE SHEETS 33-35 FOR NOTES & INSERTS.

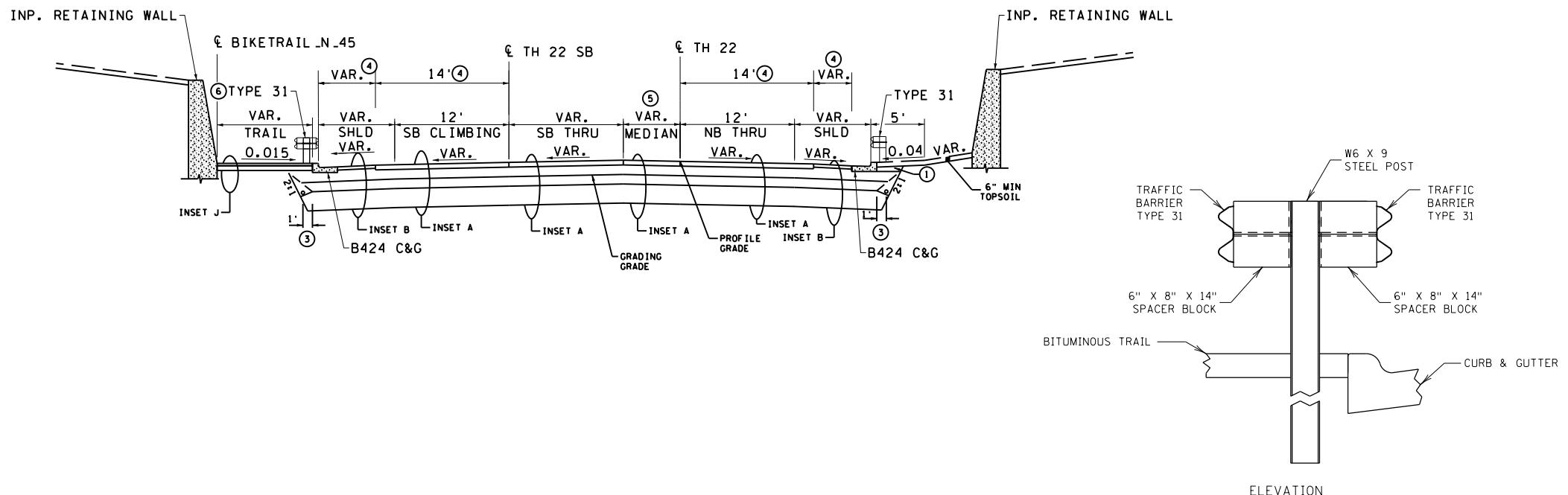
PROPOSED TYPICAL SECTION - TH 22  
TH 22 STA 424+91 TO 438+77



PROPOSED TYPICAL SECTION - TH 22  
TH 22 STA 438+77 TO 445+87

SPECIFIC NOTES:

- ① BACKFILL WITH COMMON EMBANKMENT (CV).
- ② 2' CLEAR ZONE MINIMUM FOR THE PED/BIKE TRAIL.  
1:6 MAX SLOPE ALLOWED WITHIN CLEAR ZONE.
- ③ 4" SUBSURFACE DRAIN. SEE SHEETS 92-94  
FOR DETAILS, SEE DRAINAGE PLANS FOR ROUTING.
- ④ PAVING WIDTH.
- ⑤ RAISED MEDIAN FROM STA 438+77 TO 440+65.
- ⑥ DOUBLE SIDED GUARDRAIL. SEE DETAIL BELOW.



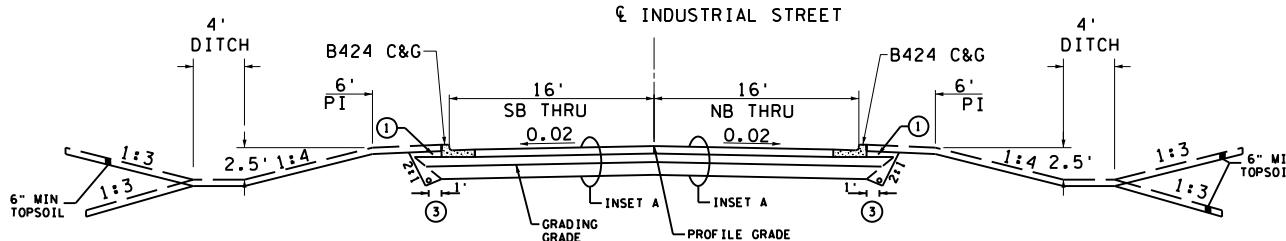
## DOUBLE SIDED GUARDRAIL DETAIL

GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.

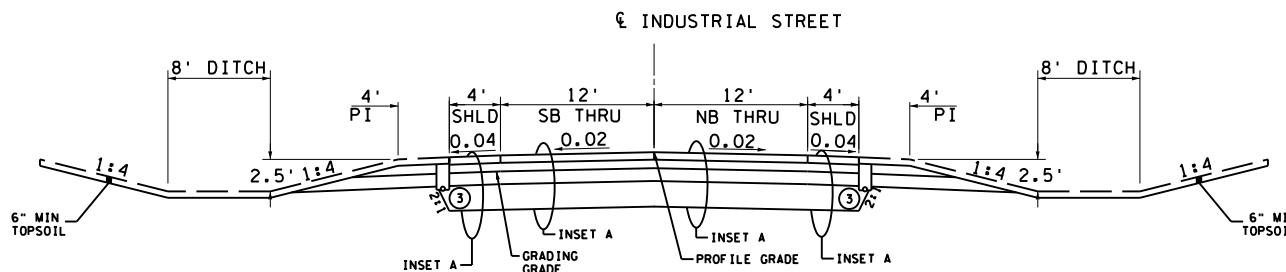
## SPECIFIC NOTES:

- ① BACKFILL WITH COMMON EMBANKMENT (CV).
- ② 2' CLEAR ZONE MINIMUM FOR THE PED/BIKE TRAIL.  
1:6 MAX SLOPE ALLOWED WITHIN CLEAR ZONE.
- ③ 4" SUBSURFACE DRAIN. SEE SHEETS 92-94  
FOR DETAILS, SEE DRAINAGE PLANS FOR ROUTING.
- ④ PAVING WIDTH

**PROPOSED TYPICAL SECTION - INDUSTRIAL ST**  
INDUSTRIAL ST STA 20+75 TO 29+52



**PROPOSED TYPICAL SECTION - INDUSTRIAL ST**  
INDUSTRIAL STREET STA 29+52 TO 35+97



bmi.tbl

pdf-B and W.pltcfg  
258:59 PMdarrente  
2/1/2024

H:\MDOT\_D7\0T4M00140\CAD\MS\plans\Typicals\cd071435\_ts016.dgn



12224 NICOLLET AVENUE  
BURNSVILLE, MINNESOTA 55337  
Phone: (952) 890-0509  
Email: Burnsville@bolton-menk.com  
www.bolton-menk.com

REV.	BY	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.  
*Justin Schmidt*  
JUSTIN PAUL SCHMIDT  
LIC. NO. 48755 DATE 01-12-2024

DESIGNED  
BAUDRAWN  
BDJCHECKED  
JPS

S.P. 0714-35 (TH22), S.P. 4012-44 (TH22), S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
TYPICAL SECTIONS

SHEET  
48  
OF  
661

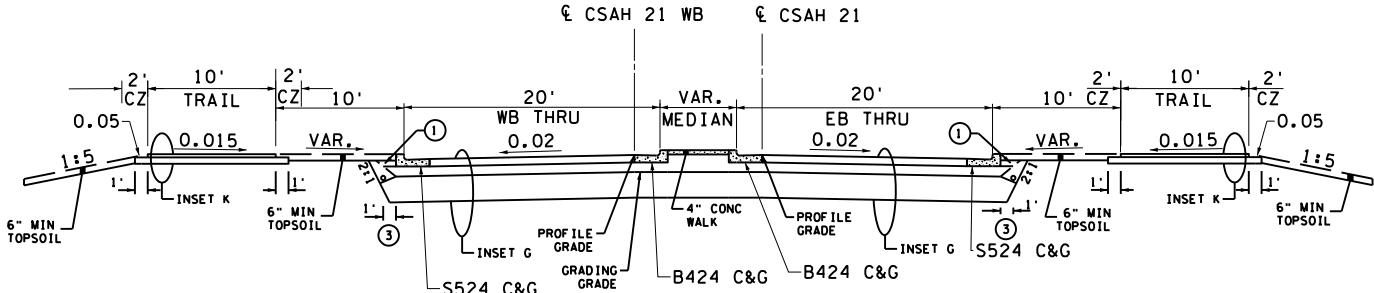
GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.

## SPECIFIC NOTES:

- ① BACKFILL WITH COMMON EMBANKMENT (CV).
- ② 2' CLEAR ZONE MINIMUM FOR THE PED/BIKE TRAIL.  
1:6 MAX SLOPE ALLOWED WITHIN CLEAR ZONE.
- ③ 4" SUBSURFACE DRAIN. SEE SHEETS 92-94  
FOR DETAILS, SEE DRAINAGE PLANS FOR ROUTING.

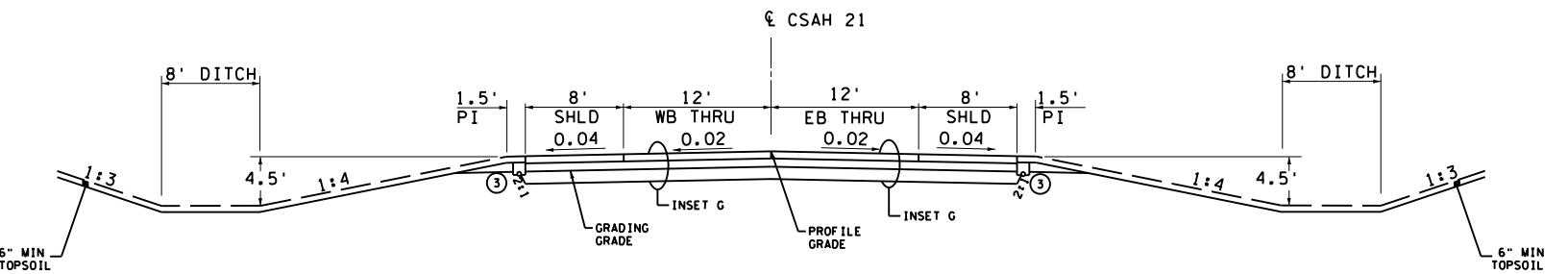
## PROPOSED TYPICAL SECTION - CSAH 21

CSAH 21 STA 205+43 TO 206+99 &amp; STA 208+98 TO 210+50



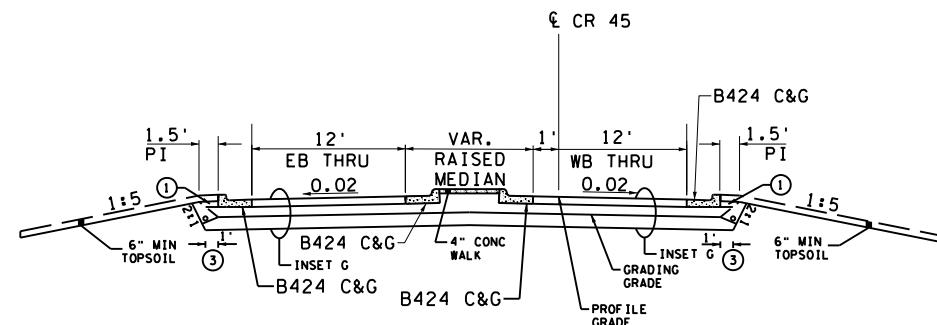
## PROPOSED TYPICAL SECTION - CSAH 21

CSAH 21 STA 200+00 TO 205+43 &amp; 210+50 TO 232+50



## PROPOSED TYPICAL SECTION - CSAH 45

CR 45 STA 30+00 TO 32+82



bmi.tbl

pdf-B and W.pltcfg  
259:00 PMdarrente  
2/1/2024

GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.

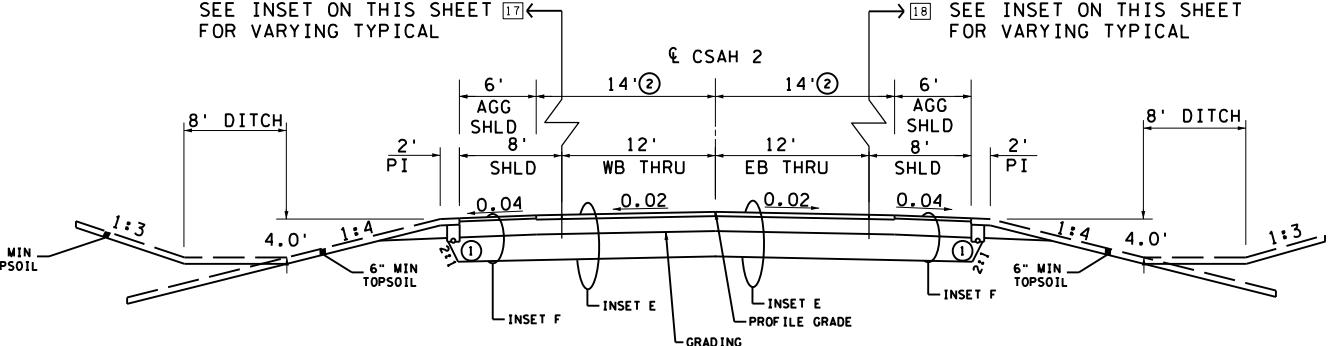
## SPECIFIC NOTES:

- ① 4" SUBSURFACE DRAIN. SEE SHEETS 92-94 FOR DETAILS, SEE DRAINAGE PLANS FOR ROUTING.
- ② PAVING WIDTHS.

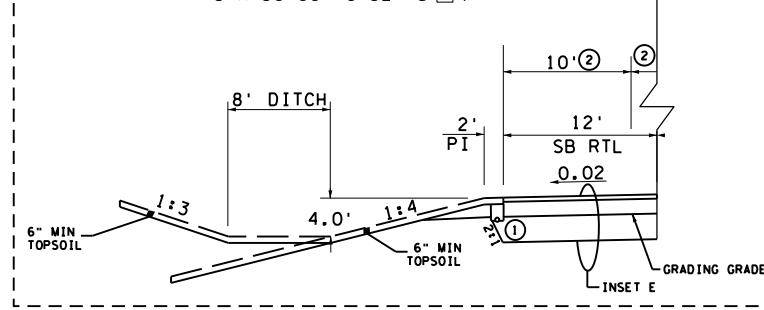
## PROPOSED TYPICAL SECTION - CSAH 2

CSAH 2 STA 30+00 TO 55+00

SEE INSET ON THIS SHEET [17] FOR VARYING TYPICAL



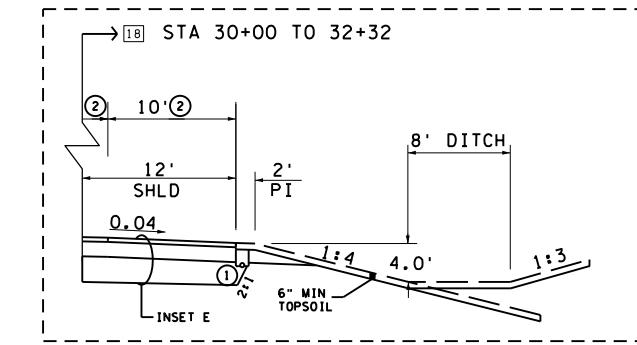
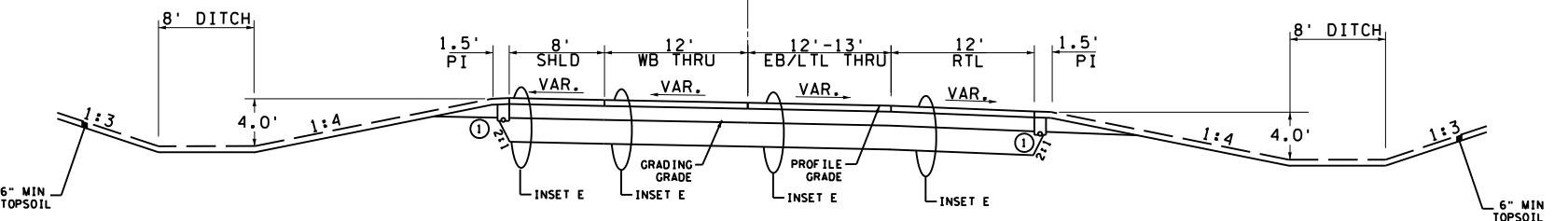
STA 30+00 TO 32+45 [17]



## PROPOSED TYPICAL SECTION - CSAH 57

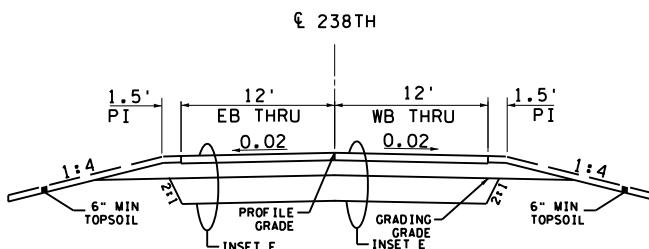
CSAH 57 STA 30+00 TO 35+00

¢ CSAH 57



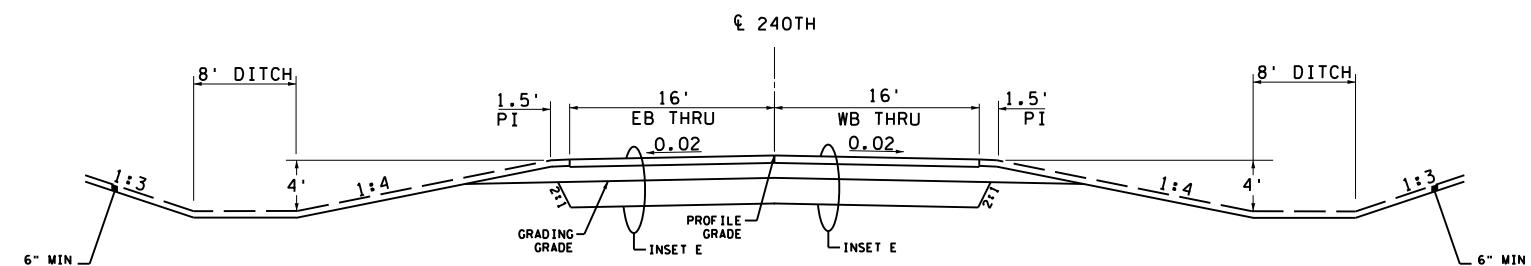
## PROPOSED TYPICAL SECTION - 238TH ST

238TH - STA 30+23 TO 31+64



## PROPOSED TYPICAL SECTION - 240 TH ST

240TH - STA 31+32 TO 36+67



bmi.tbl

pdf-B and W.pltcfg  
259:00 PMdarrente  
2/1/2024

H:\MDOT\_D7\0T4M00140\CAD\MS\plans\Typicals\cd071435\_ts018.dgn



12224 NICOLLET AVENUE  
BURNSVILLE, MINNESOTA 55337  
Phone: (952) 890-0509  
Email: Burnsville@bolton-menk.com  
www.bolton-menk.com

REV.

BY

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.  
*Justin Schmidt*  
JUSTIN PAUL SCHMIDT  
LIC. NO. 487555  
DATE 01-12-2024

DESIGNED  
BAUDRAWN  
BDJCHECKED  
JPS

S.P. 0714-35 (TH22), S.P. 4012-44 (TH22), S.P. 040-070-007

T.H. 22 RECONSTRUCTION

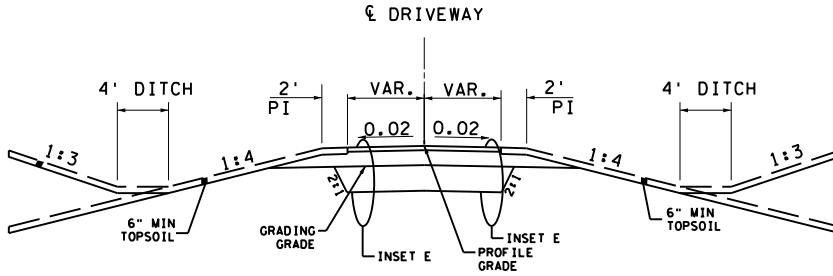
TYPICAL SECTIONS

SHEET  
50  
OF  
661

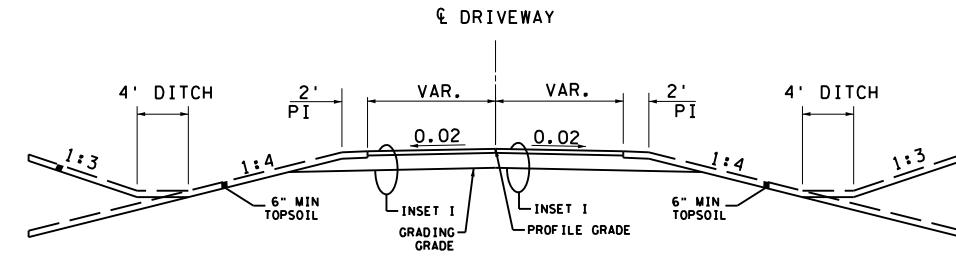
GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.

## PROPOSED TYPICAL SECTION - DRIVEWAYS

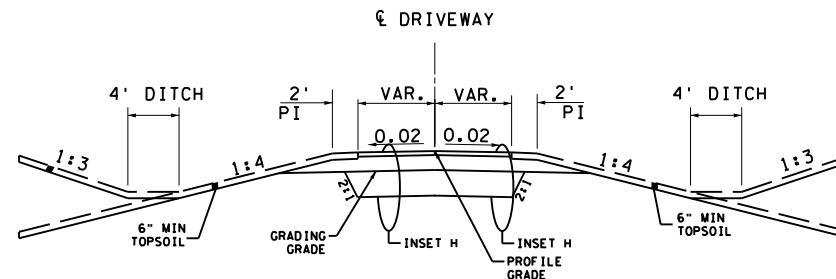
DW W1 STA 30+67 TO 35+60



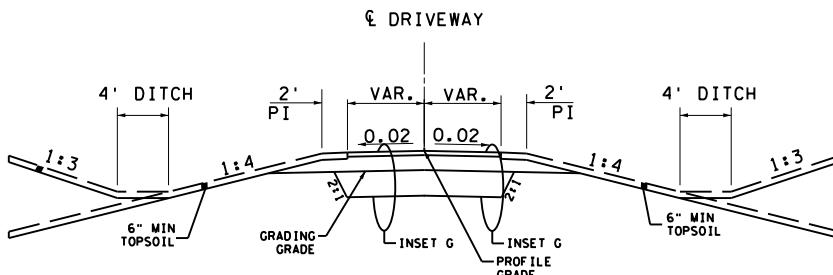
DW E3 STA 20+00 TO 22+99  
DW W2 STA 20+00 TO 22+12  
DW W3 STA 20+00 TO 23+99  
DW E4 STA 20+00 TO 21+62



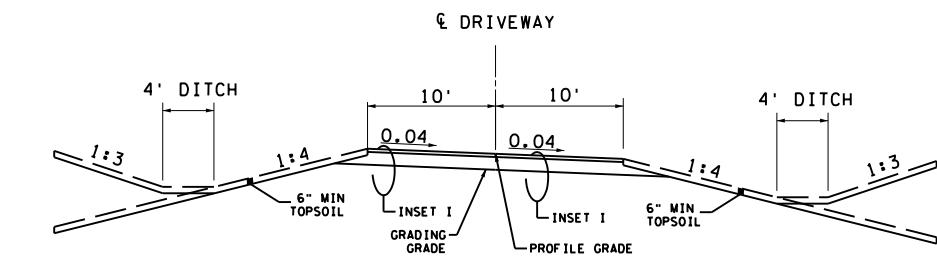
DW W3 STA 20+00 TO 24+00



DW E5 STA 20+00 TO 29+39



DW E1 STA 20+43 TO 32+41



bmi.tbl

pdf-B and W.pltcfg  
259:01 PMdarrente  
2/1/2024

H:\MDOT\_D7\0T4M00140\CAD\MS\plans\Typicals\cd071435\_ts019.dgn



12224 NICOLLET AVENUE  
BURNSVILLE, MINNESOTA 55337  
Phone: (952) 890-0509  
Email: Burnsville@bolton-menk.com  
www.bolton-menk.com

REV.	BY	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.  
*Justin Schmidt*  
JUSTIN PAUL SCHMIDT  
LIC. NO. 48755  
DATE 01-12-2024

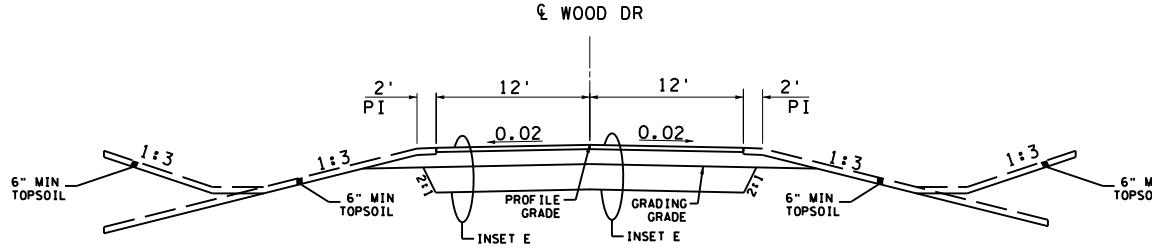
DESIGNED  
BAU  
DRAWN  
BDJ  
CHECKED  
JPS

S.P. 0714-35 (TH22), S.P. 4012-44 (TH22), S.P. 040-070-007  
T.H. 22 RECONSTRUCTION  
TYPICAL SECTIONS

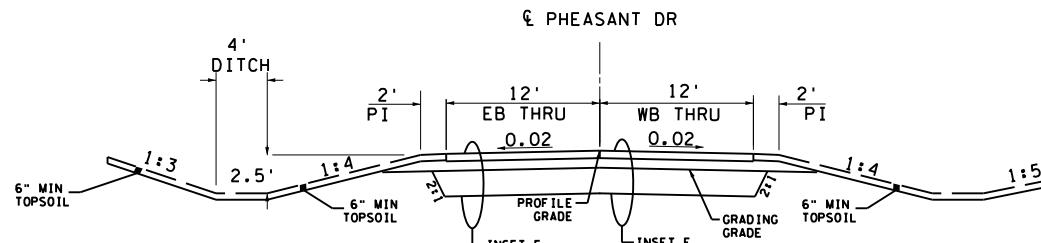
51  
OF  
661

GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSERTS.

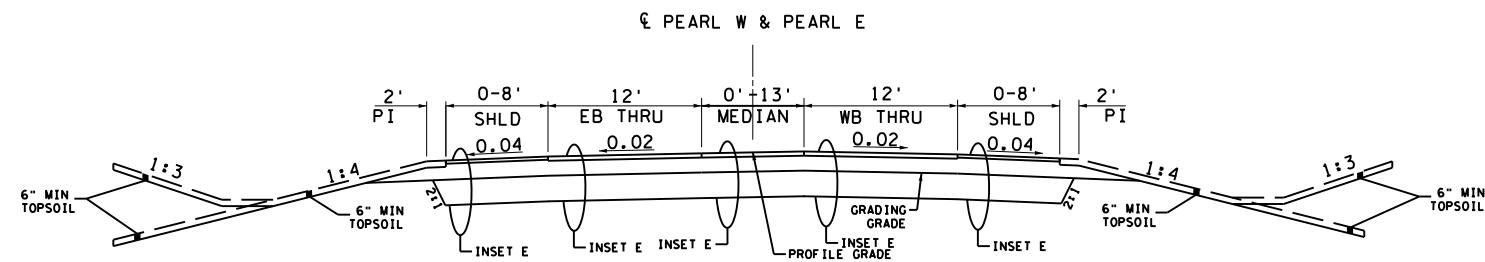
PROPOSED TYPICAL SECTION - WOOD DRIVE  
WOOD DR STA 0+00 TO 6+00



PROPOSED TYPICAL SECTION - PHEASANT DR  
PHEASANT DR STA 30+35 TO 34+26



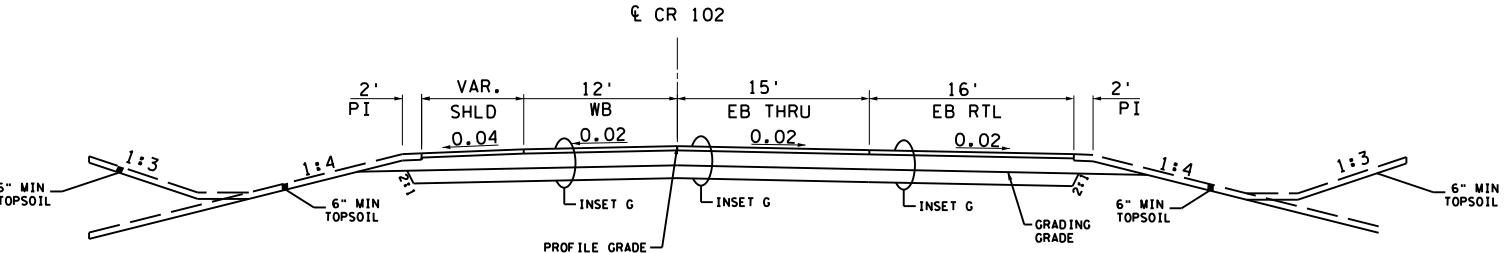
PROPOSED TYPICAL SECTION - PEARL W & PEARL E  
PEARL W STA 20+00 TO 22+32 & PEARL E STA 30+00 TO 32+22



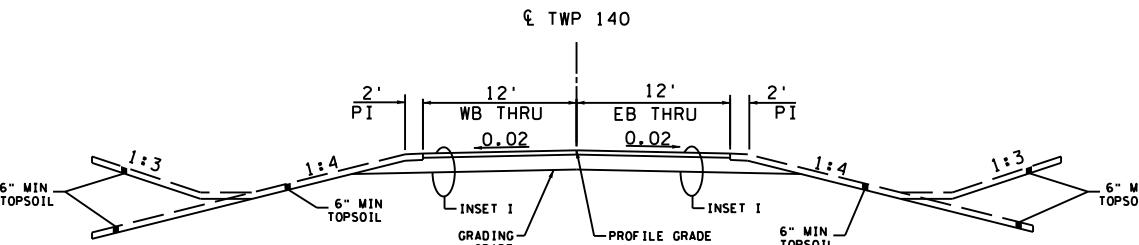
bmi.tbl  
pdf-B and W.pltcfg  
259:02 PM  
darrente  
2/1/2024

GENERAL NOTES:  
-SEE SHEETS 33-35 FOR NOTES & INSETS.

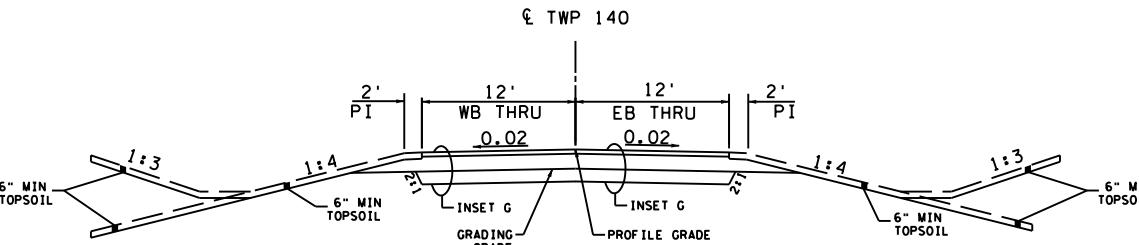
PROPOSED TYPICAL SECTION - 460TH STREET  
CR 102 STA 31+00 TO 34+26



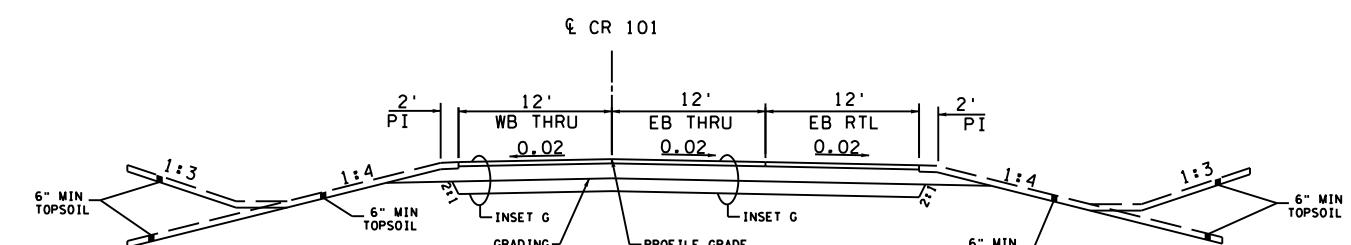
PROPOSED TYPICAL SECTION - TWP 140  
TWP 140 STA 30+00 TO 31+35 & STA 34+12 TO 36+71



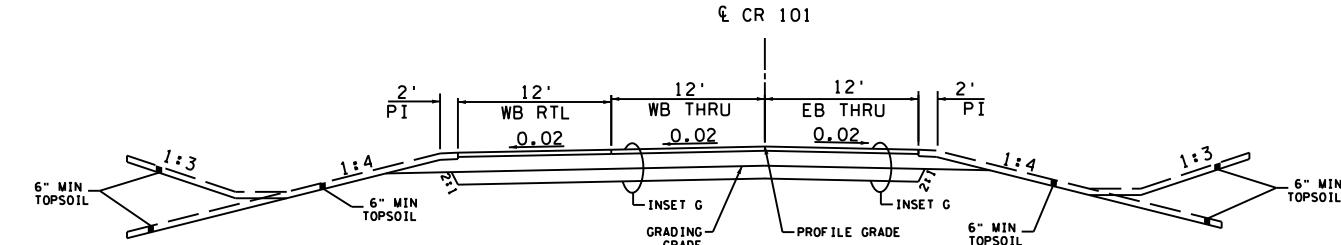
TWP 140 STA 31+35 TO STA 34+12



PROPOSED TYPICAL SECTION - CR 101  
CR 101 STA 30+00 TO 33+43



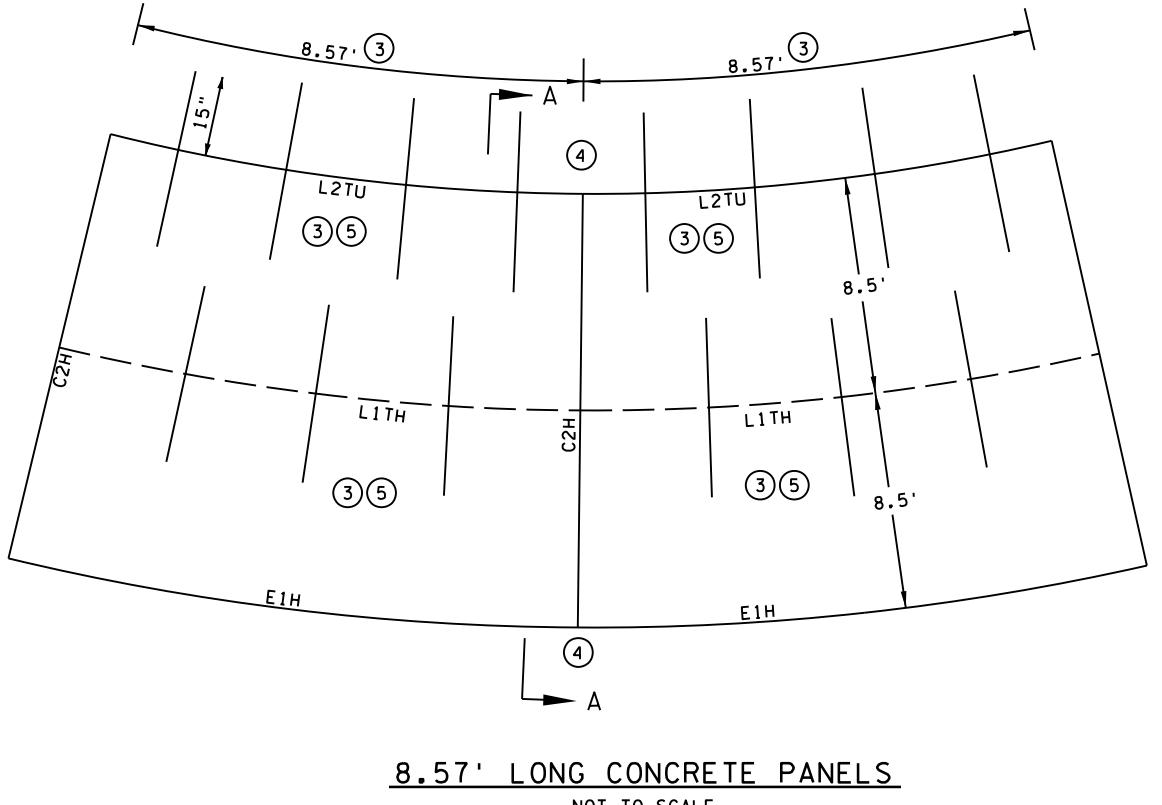
CR 101 STA 33+43 TO 36+00



bmi.tbl  
pdf-B and W.pltcfg  
259:03 PM  
darrente  
2/1/2024

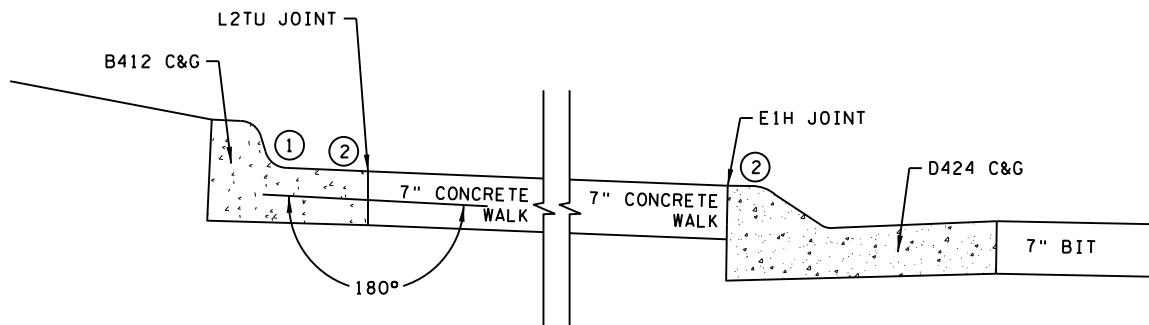
## NOTES:

- ① GUTTER TIPPED OUT.
  - ② FOR CONCRETE WALK TYING TO C&G USE NO. 4 BARS 2.5' LONG AT 2.5' SPACING. (INCIDENTAL)
  - ③ CONCRETE APRON SHALL BE MADE OF 33 EQUAL SECTION OF 2 PANELS. 8.57' PANEL LENGTH IS MEASURED FROM INSIDE EDGE OF TRUCK APRON ALONG ARC LENGTH (EQUIVALENT TO THE LIP OF THE B412 CURB). CHORD LENGTH IS APPROXIMATELY 8.56'.
  - ④ PLACE C&G JOINTS AT SAME INTERVALS AS PAVEMENT JOINTS.
  - ⑤ 7" CONCRETE WALK



8.57' LONG CONCRETE PANELS  
NOT TO SCALE

NOT TO SCALE



T.H. 22/CSAH 21  
CURB & GUTTER JOINTS  
ADJACENT TO TRUCK APRON  
SECTION A-A

#### **GENERAL NOTES:**

SEE TYPICAL SECTIONS AND PLAN SHEETS  
FOR CURB AND GUTTER DETAILS.

ALL REINFORCING BARS SHALL BE EPOXY COATED IN ACCORDANCE WITH SPEC. 3301 AND SHALL MEET THE REQUIREMENTS OF GRADE 60 FOR AASHTO M-31 OR M-53.

SEE STANDARD PLAN 5-297.221 FOR MORE INFORMATION ON PAVEMENT JOINTS.



12224 NICOLLET AVENUE  
BURNSVILLE, MINNESOTA 55337  
Phone: (952) 890-0509  
Email: [Burnsville@bolton-menk.com](mailto:Burnsville@bolton-menk.com)  
[www.bolton-menk.com](http://www.bolton-menk.com)

12224 NICOLLET AVENUE BURNSVILLE, MINNESOTA 55337 Phone: (952) 890-0509 Email: Burnsville@bolton-menk.com www.bolton-menk.com	REV.	BY	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.   JUSTIN PAUL SCHMIDT LIC. NO. 48755	DESIGNED BAU	S.P. 0714-35 (TH22), S.P. 4012-44 (TH22), S.P. 040-070-007	SHEET 54 OF 661
					DRAWN JMR	T.H. 22 RECONSTRUCTION	
					CHECKED JPS	MISCELLANEOUS DETAILS	

darrente  
2/1/2024