



HIGHWAY

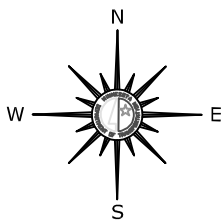
MINNESOTA DEPARTMENT OF TRANSPORTATION  
CHIPPEWA COUNTY

CONSTRUCTION PLAN FOR: BITUMINOUS SURFACING, AGGREGATE BASE, &  
SHOULDER BASE AGGREGATE

LOCATED ON C.S.A.H. 4 BETWEEN 1st ST E AND T.H. 40 8 MILES NORTH OF MAYNARD (Geographic Description)  
FROM 604' S OF THE NE COR. SEC. 19 T118N R38W TO 20' S OF THE NE COR. SEC. 19 T119N R38W (Legal Description)

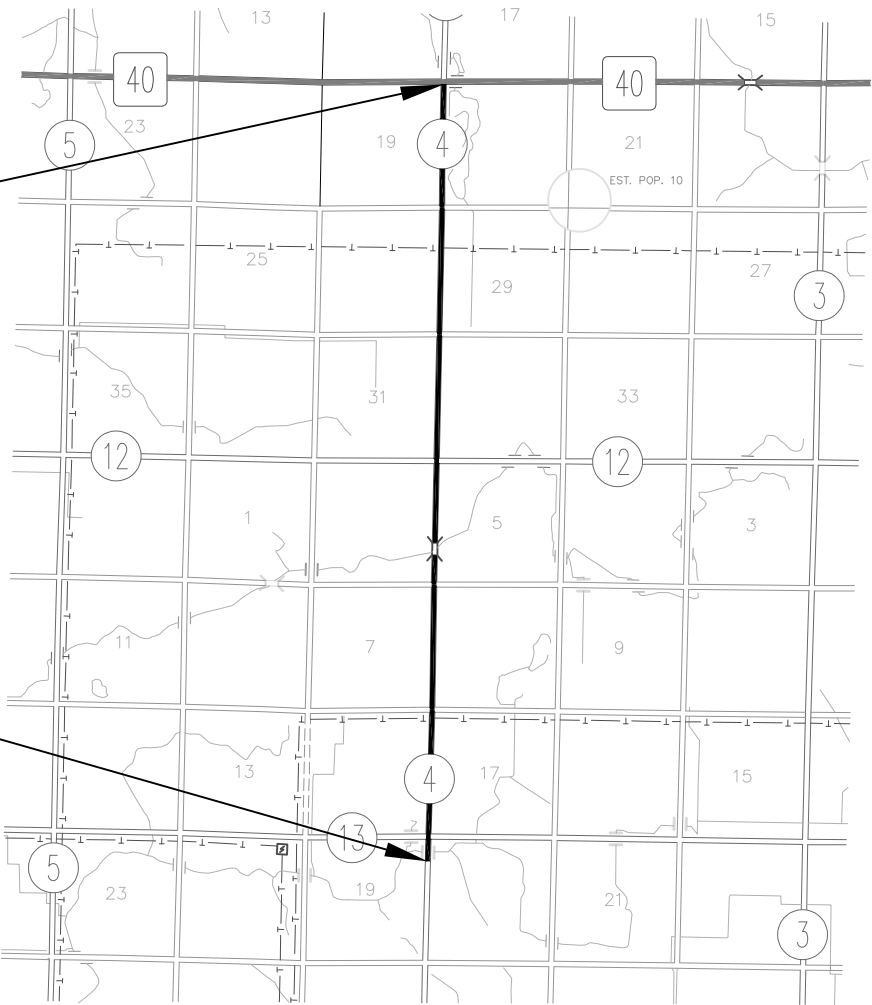
STATE AID PROJECT NO. 012-604-021  
GROSS LENGTH 32,298' 6.117 MILES  
BRIDGES-LENGTH 15.42' 0.003 MILES

EXCEPTIONS-LENGTH  
NET LENGTH 32,298' 6.117 MILES



END S.A.P. 012-604-021  
STA. 808+98

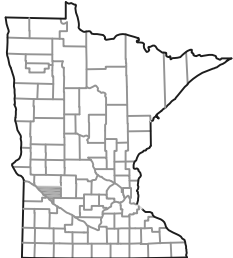
BEGIN S.A.P. 012-604-021  
STA. 486+00



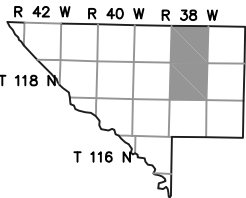
ROAD SYSTEM DESIGNATIONS

- INTERSTATE TRUNK HIGHWAY
- U.S. NUMBERED TRUNK HIGHWAY
- STATE NUMBERED TRUNK HIGHWAY
- COUNTY STATE AID HIGHWAY
- COUNTY ROAD

Outline Map of Minnesota showing  
location of the County within the State.



Outline Map of the County.  
Area of this County 588 Sq. Miles  
Land Area 581 Sq. Miles  
2020 Total County Population 12,598



INDEX MAP 1

LEGEND

PLAN SYMBOLS

- BENCHMARK
- SECTION CORNER
- FENCE POST
- ELECTRIC PEDISTAL
- TELEPHONE PEDISTAL
- LIGHT POLE
- POWER POLE
- MAIL BOX
- FIRE HYDRANT
- WATER VALVE
- FIBER OPTIC MARKER
- WETLAND SYMBOL
- SANITARY MANHOLE
- STORM MANHOLE
- LIFT STATION
- DECIDUOUS TREE
- CONIFEROUS TREE
- CATCH BASIN
- DROP INLET
- CULVERT
- RIGHT-OF-WAY LINE
- RAILROAD TRACKS
- SILT FENCE
- SILT FENCE TYPE MS
- DRAIN TILE
- PERF TILE LINE
- GUARDRAIL
- BIO ROLL
- FENCE WOOD
- FENCE CHAIN LINK
- FENCE BARB WIRE
- SLOPE EASEMENT
- TEMPORARY EASEMENT

UTILITIES SYMBOLS

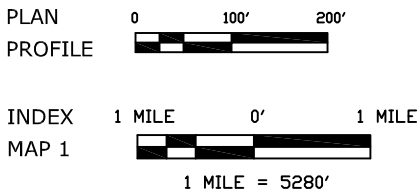
- OVERHEAD POWER LINE
- OVERHEAD TELEPHONE LINE
- OVERHEAD CABLE TV
- WATER MAIN SERVICE
- WATER SERVICE LINE
- BURIED TELEPHONE CABLE
- BURIED POWER LINE
- BURIED PETROLEUM PIPELINE
- BURIED GAS PIPELINE
- BURIED FIBER OPTIC

DRAINAGE

- INTERMITTENT STREAM
- NARROW STREAM
- WIDE STREAMS
- MARSH OR SWAMP LAND
- DRAINAGE DITCH
- LAKE OR POND

STRUCTURES

- HIGHWAY BRIDGE



GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION  
"STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MMUTCD, INCLUDING THE LATEST  
FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	ESTIMATED QUANTITIES
SHEET NO. 3	TYPICAL SECTION SHEETS
SHEET NO. 4	TABULATED SHEET
SHEET NO. 5-6	SWPPP SHEETS
SHEET NO. 7	TRAFFIC CONTROL SHEET

THIS PLAN CONTAINS 7 SHEETS

Graded Under S.A.P. 012-604-019 (2024)

DESIGN DESIGNATION

§N18<sub>20</sub> 570,000  
R VALUE 10  
ADT (2024) 520  
PROJ. ADT (2044) 850  
PROJ. HCADT (2044) 76  
SOIL FACTOR 130  
10 TON DESIGN  
SHOULDER WIDTH 2' OR GREATER  
BASED ON STOPPING SIGHT DISTANCE  
HEIGHT OF EYE 3.5 HEIGHT OF OBJECT 2.0  
DESIGN SPEED 60 MPH

DESIGN SPEED NOT ACHIEVED AT:

STA. TO STA. MPH  
STA. TO STA. MPH  
STA. TO STA. MPH

SIGNATURE: TYPED OR PRINTED NAME: JEREMY L GILB

DESIGN ENGINEER: I HEREBY CERTIFY THAT THIS PLAN 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.

DATE: 12/16/2024 LICENSE NUMBER: 58376

DATE: 12/16/2024

APPROVED: COUNTY ENGINEER

Todd Broadwell Digitally signed by Todd Broadwell  
Date: 2024.12.17 12:21:11 -06'00'

DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE-AID  
RULES/POLICY

Todd Broadwell Digitally signed by Todd Broadwell  
Date: 2024.12.17 12:20:29 -06'00'

STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY  
QUALITY LEVEL D. THIS UTILITY LEVEL WAS DETERMINED ACCORDING  
TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR  
INVESTIGATING AND DOCUMENTING EXISTING UTILITIES." THE CONTRACTOR  
SHALL VERIFY UTILITY LOCATIONS AND DEPTHS RELEVANT TO CONSTRUCTION.  
EXCAVATION TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE  
INCIDENTAL. THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNERS AT LEAST  
48 HOURS BEFORE BEGINNING CONSTRUCTION. GOPHER STATE ONE CALL  
1-800-252-1166.

STATE PROJECT NO. \_\_\_\_\_  
STATE AID PROJ. NO. 012-604-021 SHEET NO. 1 OF 7 SHEETS

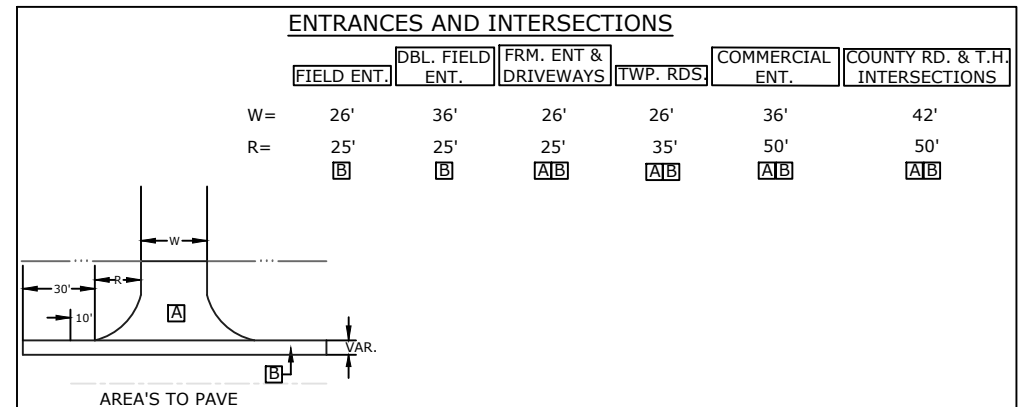
[illegible]

- BASIS FOR PLAN QUANTITIES WEAR & BASE COURSE MIXTURE: 115 LBS. PER SQ. YD./IN.
- AGGREGATE BASE: 105 LBS. PER SQ. YD./IN.
- TOPSOIL BORROW: 1 TON = 0.7 YD<sup>3</sup> (LV)

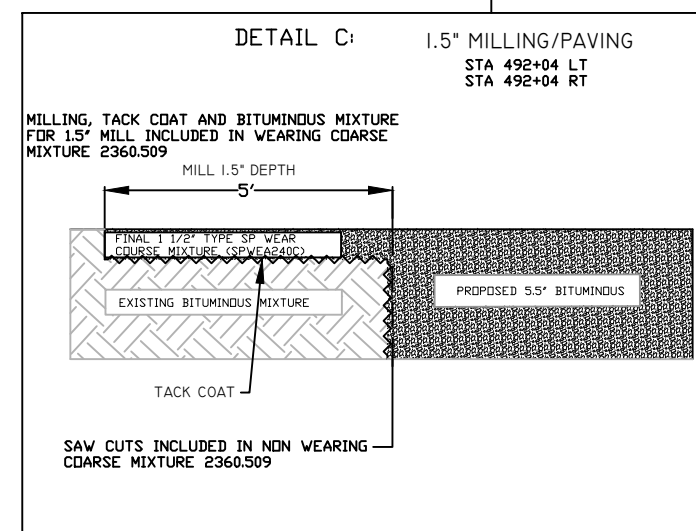
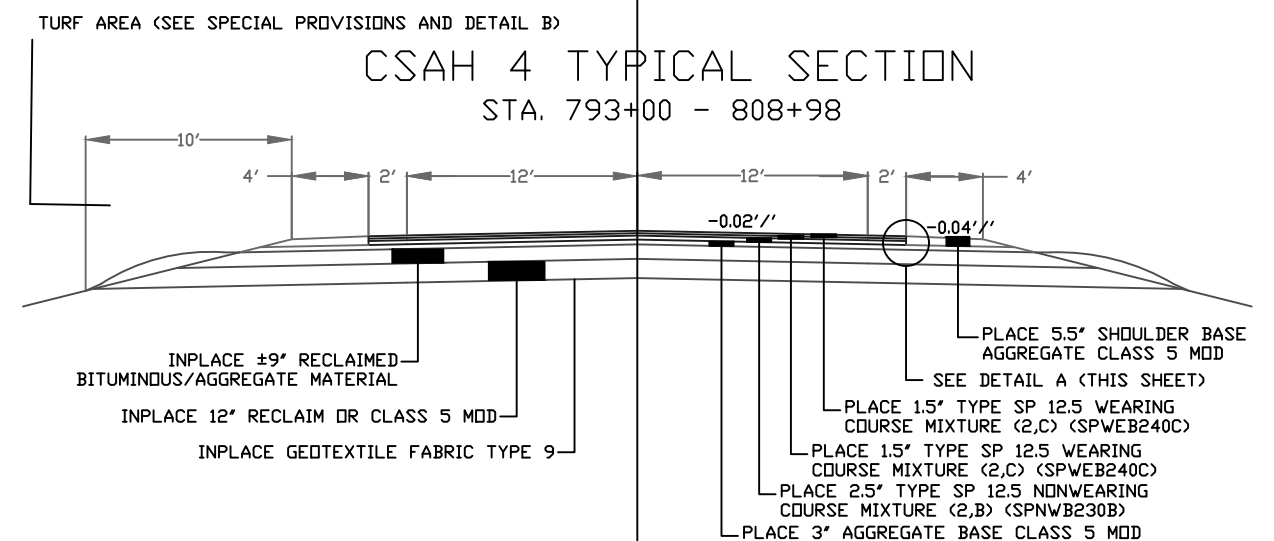
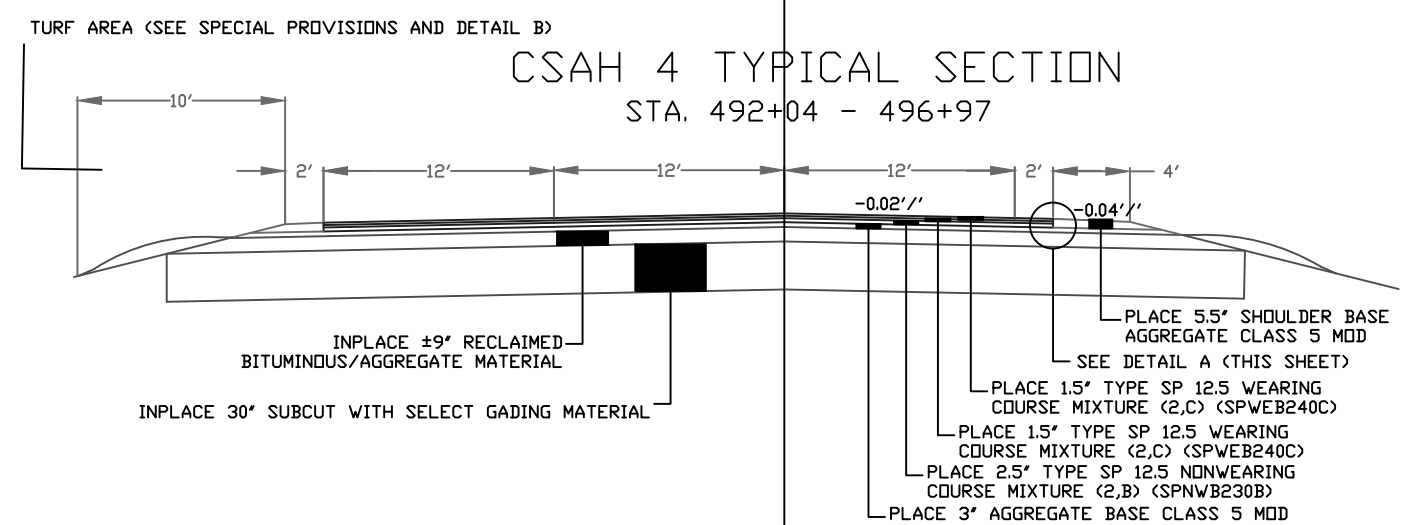
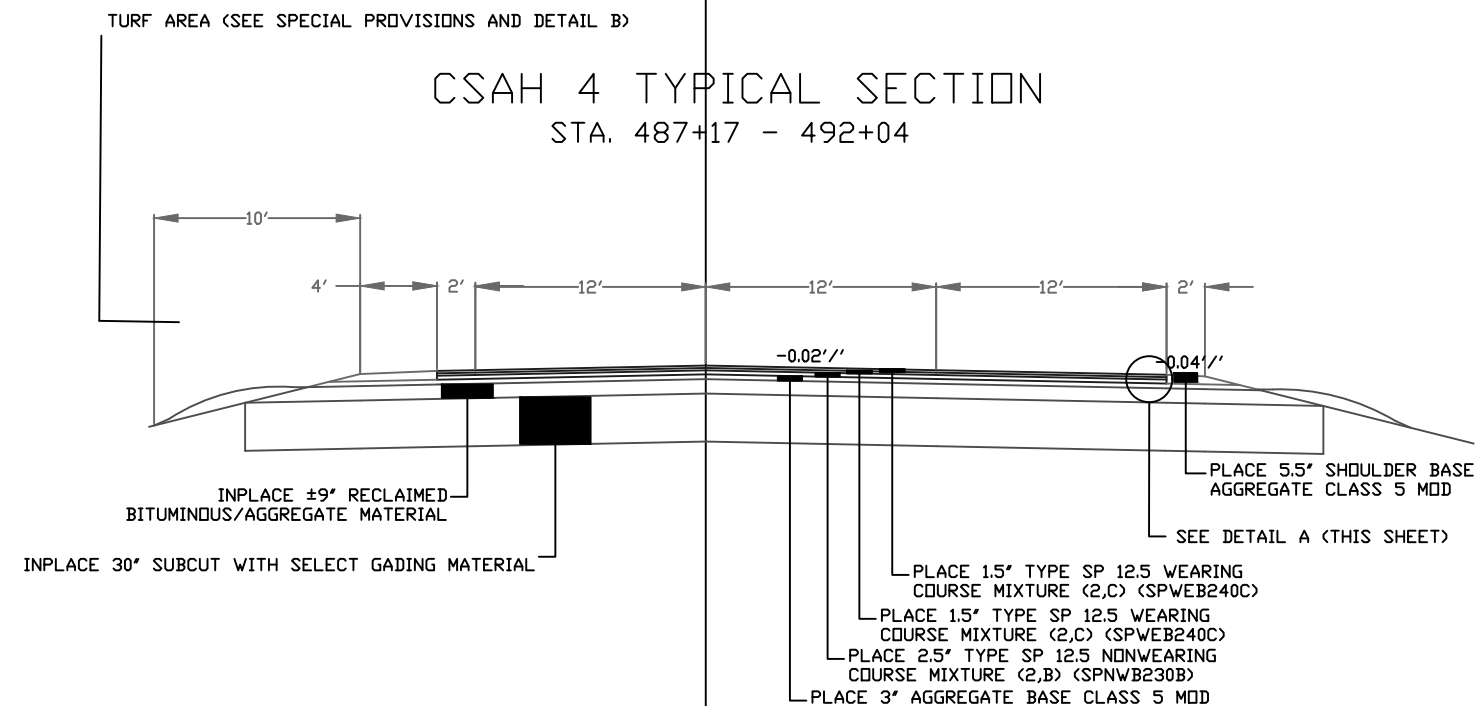
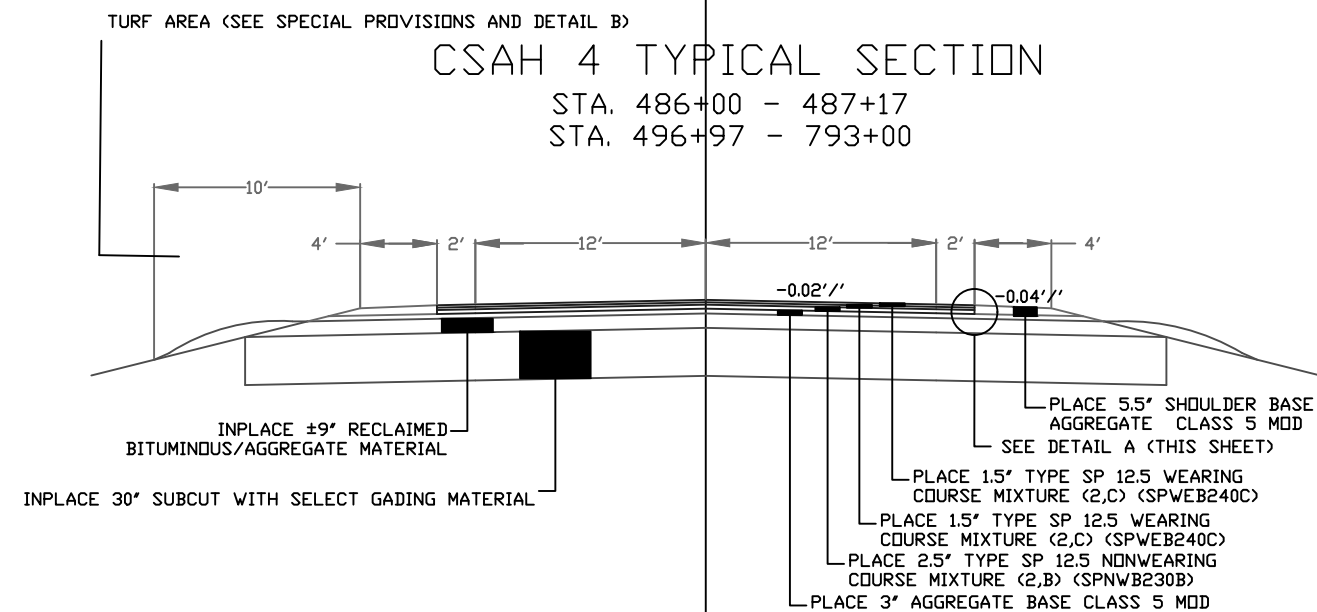
THE FOLLOWING STANDARD PLATES AS APPROVED BY  
F.H.W.A. SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
8000 K	TEMPORARY CHANNELIZERS
9000 E	APPROACHES AND ENTRANCES

- | UTILITY COMPANIES     |                |
|-----------------------|----------------|
| COMPANY NAME          | PHONE NUMBER   |
| CENTURYLINK           | (800)-283-4237 |
| MEDIACOM              | (800)-778-9140 |
| CLARA CITY TELEPHONE  | (320)-847-2211 |
| TDS TELECOM           | (763)-682-3514 |
| FARMERS MUTUAL        | (800)-692-0021 |
| MINNESOTA VALLEY COOP | (320)-269-2163 |
| EXCEL ENERGY          | (800)-848-7558 |
| MNDOT                 | (651)-366-5750 |
|                       |                |
|                       |                |



Minn. Proj. No. \_\_\_\_\_ County Proj. No. \_\_\_\_\_  
State Proj. No. \_\_\_\_\_ S.A.P. 012-604-021  
CERTIFIED BY  12/16/2024 LICENSE NO. 58376 Sheet 2 of 7 Sheets  
PROFESSIONAL ENGINEER



DETAIL A:

SAFETY EDGE DETAIL

FINAL LIFT WEAR COURSE MIXTURE

DETAIL B:

EXCESS TOPSOIL HAS BEEN PREVIOUSLY PLACED ON THE UPPER 8 FEET OF THE INSLOPE WITH THE PREVIOUS GRADING PROJECT. SALVAGE 6' OF TOPSOIL ON THE UPPER 8 FEET OF THE INSLOPE TO BE PULLED UP AND SPREAD TO A MINIMUM 3' DEPTH ON THE 10 FOOT TURF AREA. PAYMENT FOR SALVAGE AND SPREADING THE TOPSOIL IS TO BE INCLUDED IN BID ITEM 2123.510 MOTOR GRADER AND 2123.610 TRACTOR AND DISK. PROVIDE COVERING AS SHOWN.

TYPICAL SECTION SHEET

Minn. Proj. No.  
State Proj. No.

CERTIFIED BY

*[Signature]*  
PROFESSIONAL ENGINEER

12/16/2024

County Proj. No.  
S.A.P.

LICENSE NO. 58376

012-604-021

Sheet 3 of 7 Sheets

SEEDING					
STA.	STA.	LT. OR RT.	ACRES	POUNDS	
				MIXTURE	
				25-142	25-151
486+00	491+83	LT/RT	0.40	18.0	
492+25	515+32	LT/RT	3.66	164.7	
545+58	597+78	LT/RT	3.60	162.0	
598+04	649+73	LT/RT	3.56	160.2	
649+99	702+86	LT	1.82	81.9	
649+99	679+72	RT	1.02	45.9	
679+98	688+74	RT	0.30		60.0
689+00	702+86	RT	0.48	21.6	
703+12	745+90	LT	1.47	66.2	
703+12	755+99	RT	1.82	81.9	
745+90	749+90	LT	0.14		28.0
749+90	755+99	LT	0.21	9.5	
756+25	790+00	LT	1.16	52.3	
756+25	774+50	RT	0.63	28.4	
774+50	777+97	RT	0.12		24.0
778+19	790+00	RT	0.41	18.5	
TOTALS			20.80	911.1	112.0

NOTE: 25-142 APPLICATION RATE 45 LBS/ ACRE  
25-151 APPLICATION RATE 200 LBS/ ACRE  
FERTILIZER RATE AT 400 LBS/ ACRE

RAPID STABILIZATION METHOD 4				
STA.	STA.	LT./RT.	25-142 (1)	SQ. YD.
790+00	808+98	LT	29.3	3164
790+00	808+98	RT	29.3	3164
TOTALS			58.6	6328

NOTE: 25-142 APPLICATION RATE 45 LBS/ ACRE  
(1) FOR INFORMATION ONLY

PAVEMENT LOCATION MARKINGS								
STATION	STATION	LOCATION	ITEM DESCRIPTION	FOG	TURN	BROKEN	SOLID	STOP
486+00	808+98	CL	4" BROKEN LINE PAINT			6460		
492+04		CL	4" BROKEN LINE PAINT			44		
492+04		CL	4" SOLID LINE PAINT EAST BOUND				110	
492+04		CL	4" SOLID LINE PAINT WEST BOUND				110	
678+25	683+50	CL	4" SOLID LINE PAINT NORTH BOUND				525	
688+25	693+50	CL	4" SOLID LINE PAINT SOUTH BOUND				525	
739+75	744+25	CL	4" SOLID LINE PAINT NORTH BOUND				450	
749+75	754+25	CL	4" SOLID LINE PAINT SOUTH BOUND				450	
776+75	782+75	CL	4" SOLID LINE PAINT NORTH BOUND				600	
786+75	792+75	CL	4" SOLID LINE PAINT SOUTH BOUND				600	
801+00	808+98	CL	4" SOLID LINE PAINT NORTH BOUND				798	
486+00	491+42	LT & RT	6" SOLID LINE PAINT	1084				
488+91	491+42	RT	6" SOLID LINE PAINT		251			
491+93		LT & RT	6" SOLID LINE PAINT	220				
492+15		LT & RT	6" SOLID LINE PAINT	220				
492+66	495+17	LT	6" SOLID LINE PAINT		251			
492+66	545+00	LT & RT	6" SOLID LINE PAINT	10468				
555+50	597+49	LT & RT	6" SOLID LINE PAINT	8398				
598+39	649+43	LT & RT	6" SOLID LINE PAINT	10208				
650+33	702+56	LT & RT	6" SOLID LINE PAINT	10446				
703+46	755+67	LT & RT	6" SOLID LINE PAINT	10442				
756+57	808+58	LT & RT	6" SOLID LINE PAINT	10402				
808+58		RT	24" SOLID LINE PAINT					14
TOTAL				61888	502	6504	4168	14

TABULATED SHEET

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

**Applicant:**  
Chippewa County Highway Department

**Project Name:**  
CSAH 4 Reconstruction 012-604-021

**Application date:**  
TBD and will be documented in this SWPPP narrative prior to the start of construction.

**Nature of construction activity description:**  
This project will include the placement of aggregate base class 5 mod, bituminous pavement, shloudere base aggregate class 5 mod.

The proposed site consists of 12 soil types.  
Tara silt loam, 1 to 3 percent slopes  
Arvilla-Sandberg complex, 2 to 6 percent slopes  
Byrne-Buse complex, 2 to 6 percent slopes  
Langhei-Barnes, moderately eroded, complex, 12 to 20 percent slopes  
Byrne silt loam, 1 to 6 percent slopes  
Bigstone and Parnell soils, ponded, 0 to 1 percent slopes  
Bearden-Quam, depressional, complex, 0 to 2 percent slopes  
Rondell silty clay loam, 1 to 3 percent slopes  
Balaton-Hamerly complex, 1 to 4 percent slopes  
Lakepark-Parnell, occasionally ponded, complex, 0 to 2 percent slopes  
Buse-Donald complex, 6 to 12 percent slopes  
Calvin-Quam complex, depressional 0 to 1 percent slopes

The project is anticipated to begin in the Spring of 2024 with construction scheduled to be complete in the Fall of 2025.

Total estimated area to be disturbed by the project is:  
Estimated Disturbed Area = 15 AC

**Name of person with BMP experience who will oversee SWPPP implementation and coordinate with contractor:**  
TBD and will be documented in this SWPPP narrative prior to start of construction.

**Person, organization, or entity responsible for long term maintenance of permanent stormwater treatment system:**  
The permanent biofiltration ditch system being installed will be maintained by Chippewa County.

Documentation of all trained individuals:

**SWPPP preparer:**  
Company: Widseth  
Name: Ella Kohls  
Address: 5368 266<sup>th</sup> Street  
City, State Zip: Wyoming, MN 55092  
Email: Ella.Kohls@Widseth.com  
Phone: 651-358-2351  
Training organization/sponsor: University of Minnesota  
Training date(s):3/15/2022  
Training activity/content: Design of Construction SWPPP  
Instructor(s) name(s): John Chapman and Rebecca Forman

**Individual overseeing implementation, revision and/or amendment the SWPPP that are available for an onsite inspection within 72 hours upon request of MPCA:** TBD and will be documented in this SWPPP narrative prior to start of construction.

Company: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State Zip: \_\_\_\_\_  
Email: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Training organization/sponsor: \_\_\_\_\_  
Training date(s): \_\_\_\_\_  
Training activity/content: \_\_\_\_\_  
Instructor(s) name(s): \_\_\_\_\_

**Individual overseeing implementation, revision and/or amendment the SWPPP:** TBD and will be documented in this SWPPP narrative prior to start of construction.

Company: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State Zip: \_\_\_\_\_  
Email: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Training organization/sponsor: \_\_\_\_\_  
Training date(s): \_\_\_\_\_  
Training activity/content: \_\_\_\_\_  
Instructor(s) name(s): \_\_\_\_\_

**Individual performing or supervising the installation, maintenance and repair of BMPs:** TBD and will be documented in this SWPPP narrative prior to start of construction.

Company: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State Zip: \_\_\_\_\_  
Email: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Training organization/sponsor: \_\_\_\_\_  
Training date(s): \_\_\_\_\_  
Training activity/content: \_\_\_\_\_  
Instructor(s) name(s): \_\_\_\_\_

Installation Timing of Erosion Prevention and Sediment Control BMPs:

Erosion and sediment control BMP's must be installed as necessary to minimize erosion from disturbed surfaces and capture sediment onsite. All BMP's must conform to 2018 MNR100001 Permit 2018 sections 7, 8 and 9.

Temporary erosion control BMPs.

The General Contractor is responsible for the Erosion Prevention Practices contained in 2018 MNR100001 Permit 2018 section 8. The General Contractor must plan for and implement appropriate construction phasing, vegetative buffer strips, horizontal slope grading and other construction practices that minimize erosion. The location of areas not to be disturbed must be delineated (marked) on the development site before work begins.

Examples of Temporary Erosion Control BMPs

- Poly Cover Stockpile or Slope
- Construction Phasing

Sequence of construction:

- 1.Install stabilized construction exits
  - 2.Prepare temporary parking and storage area
  - 3.Construct the silt fences and sediment control logs on the site
  - 4.Clear and grub the site
  - 5.Begin grading the site
  - 6.Start construction of building pad and structures
  - 7.Complete grading and permanent seeding and planting
  - 8.When Permit termination conditions has been achieved, remove all temporary erosion and sediment control devices
- Phasing must be implemented to ensure that more area than can be effectively inspected and maintained in accordance with the MNR100001 permit is not disturbed.

- Rolled Erosion Control Products

The contractor must minimize the need for disturbance of portions of the project that have steep slopes (3:1 or steeper). For steep sloped areas that must be disturbed, the contractor must use techniques such as phasing, and stabilization practices designed for steep slopes including draining and terracing. Slopes steeper than 3:1 must be protected by rolled erosion prevention products.

MnDOT reference:

- Rolled erosion control products must be placed in the areas as shown on the plan included in this SWPPP.
- Rolled erosion control products must be Rolled Erosion Prevention Products, Turf Reinforcement Mats, or Winter Blankets, according to plan. Materials must meet the requirements of MnDOT spec. 3885.
- Rolled erosion control products must be placed as per MnDOT spec. 2575.3.G.

- Wood Chips
- Vegetation

MnDOT reference:

- Protect and preserve vegetation per the requirements of MnDOT spec. 2572.3.A.
- Before work begins, permittees must delineate the location of areas not to be disturbed.

- Mulch

All disturbed soil areas must be temporarily mulched with Rapid Stabilization, Method 3, initiated immediately, when the area will not actively be worked for 7/14 days. 3884, Stabilized Fiber Matrix, placed at 330 lb. per 1,000 gal. of slurry mix. Seed mixture 22-111 placed at a rate of 10 lb. per 1,000 gal. of slurry mix. Type 3 Slow Release Fertilizer 10-10-10 placed at a rate of 50 lb. per 1,000 gal. of slurry mix. Water placed at a rate of 875 gal per 1,000 gal of slurry mix. Apply mixture at a rate of 6,000 gal per acre.

MnDOT reference:

- Mulch must be placed in the areas as shown on the plan included in this SWPPP.
- Mulch must be Temporary, Type 1, Type 3, Type 4, Type 5, Type 6, Type 7, Type 8, Type 9, Winter, or Hydraulic Mulch according to plan. Materials must meet the requirements of MnDOT spec. 3882 or MnDOT spec. 3884.
- Mulch must be applied as per MnDOT spec. 2575.3.C or MnDOT spec. 3575.3.E.

Temporary Sediment Control BMPs

The General Contractor is responsible for the Sediment Control Practices contained in MNR100001 Permit 2018 reference 9 of the NPDES Permit. Sediment Control Practices must be installed on all down gradient perimeters before any upgradient land disturbing activities begin. These practices must remain in place until Permit Termination Conditions have been established in accordance with MNR100001 Permit 2018 reference 13 of the NPDES Permit.

Examples of Temporary Sediment Control BMPs

- Silt Fence

MnDOT reference:

- Silt fence must be placed in the areas as shown on the plan included in this SWPPP.
- Silt fence must be preassembled, machine sliced, hand installed, super duty, or turbidity barrier type, according to plan. Materials must meet the requirements of MnDOT spec. 3886.
- Silt fence must be installed as per MnDOT spec. 2573.3.B.

- Sediment Control Logs

MnDOT reference:

- Sediment control logs must be placed in the areas as shown on the plan included in this SWPPP.
- Sediment control logs must be Type Straw, Wood Fiber, Coir, Wood Chip, Compost, Rock, or Wood Fiber and Blanket Systems and meet the requirements of MnDOT spec. 3897.
- Sediment control logs must be installed as per MnDOT spec. 2573.3.F.

- Filter Berms

Silt fence or windrowed topsoil will be used as the primary control. Sediment control logs will be used as secondary control along each side of roadway at all low points and areas of high velocity drainage to prevent sediment from draining off roadway.

MnDOT reference:

- Filter berms must be placed in the areas as shown on the plan included in this SWPPP.
- Filter berms must be Type 1, 2, 3, 4, or 5. Materials must meet the requirements of MnDOT spec. 3874.
- Filter berms must be installed as per MnDOT spec. 2573.3.E

- Filter Bag Insert Inlet Protection
- Silt Fence Ring and Rock Filter Berm Inlet Protection

- Sand Bag Barriers

MnDOT reference:

- Sand bag barriers must be placed in the areas as shown on the plan included in this SWPPP.
- Sandbag Barriers must be installed as per MnDOT spec. 2573.3.D.

- Slash Mulch, Crushed Rock, or Sheet Pad Construction Exit

Rock construction exits must be placed at all locations construction vehicles will be exiting the project area. If the contractor chooses to access the site from locations other than where temporary rock construction exits are shown on the plan, additional construction exit controls must be placed at these locations as well. If sediment tracking is discovered on adjacent streets, the sediment must be removed with a street sweeper or other approved method within one calendar day of discovery. This must be done throughout the duration of the project. The sediment may be returned to the exposed areas of the site or disposed of offsite per MPCA requirements.

MnDOT reference:

- Construction exit controls must be placed in the areas as shown on the plan included in this SWPPP.
- Construction exit controls must be constructed with slash mulch, crushed rock, temporary paving, reinforced geotextile, sheet pads, floating road, timber pad, or rumble pad.
- Construction exit controls must be installed as per MnDOT spec. 2573.3.K.

- Rumble Pad Construction Exit

- Culvert End Controls

MnDOT reference:

- Culvert end controls must be placed in the areas as shown on the plan included in this SWPPP.
- Culvert End Controls must be installed as per MnDOT spec. 2573.3.L.

- Storm Drain Inlet Protection

MnDOT reference:

- Storm drain inlet protection must be placed in the areas as shown on the plan included in this SWPPP.
- Storm Drain Inlet Protection must be installed as per MnDOT spec. 2573.3.J.

- Geotextile Fabric Culvert Inlet Protection

- Geotextile Fabric Culvert Inlet Protection must be placed in the areas as shown on the plan included in this SWPPP.
- Geotextile Fabric Culvert Inlet Protection must meet requirements of MnDOT spec. 3886.

Geotextile Fabric Culvert Inlet Protection

- a). Culvert inlet protection must be provided at all culvert inlet locations immediately after construction of the culvert. See plan included in this SWPPP for culvert inlet locations.
- b). Culvert inlet protection must consist of geotextile fabric wrapped around, and completely covering the inlet end section. The geotextile fabric must be the same fabric used in silt fence applications and meet the requirements of MNDOT Spec. 3886.
- c). The culvert inlet protection must remain in place and adequately maintained until Permit Termination Conditions have been established.
- d). Culvert inlet protection must be repaired or replaced if damaged during, or after, rain events, or if accumulated sediment reaches 1/2 of the diameter of the culvert pipe. Repair or replacement of culvert inlet protection must be completed within 24 hours of discovery.

- Temporary Sediment Basins

Contractor may construct temporary sedimentation basins in accordance with MNR100001 Permit 2018 reference 14 of the NPDES Permit.

- Temporary Diversion Ditch

Measures must be taken to ensure that "clean" runoff from off site is diverted around disturbed areas on site. Care should be taken that re-routing off site runoff does not result in flooding or other issues on adjacent properties

Permanent Erosion Cover Methods for all exposed soil areas:

- Aggregate Surfacing, Class 5
- Concrete
- Bituminous
- Roof tops
- Landscape material that will permanently attest soil erosion
- Perennial cover

Permanent erosion control will be achieved with a density of 70% of the native background vegetation by using Seed Mixture 25-141 at a rate of 59 lbs/ac of Pure Live Seed, 25-151 at a rate of 120 lbs/ac of Pure Live Seed, Type 3 Fertilizer with a composition of 22-5-10 at a rate of 200 lbs/ac, and Mulch Material Type 1 at a rate of 2 ton/ac on all disturbed construction areas.

**Stormwater Mitigation Measures proposed as part of environmental, endangered species, archaeological or other required local, state or federal reviews conducted by the project.**

No local, state or federal reviews were conducted for the Project.

**Discharges to any U.S. EPA approved TMDL for the pollutants/stressors described in MNR100001 Permit 2018 reference item 23.7**

There are no special or impaired waters within one mile of the project site that will receive stormwater runoff.

Permanent Stormwater Treatment System:

Permanent biofiltration ditch system being installed.

Procedures to Amend SWPPP:

The General Contractor must amend the SWPPP as necessary to include additional requirements, such as additional or modified BMP's, designed to correct problems or address situations in accordance with MNR100001 Permit 2018 reference 6 of the NPDES Permit.

\*\*\*\*\*

Amendments to the SWPPP:

1. Date:
2. Date:
3. Date:
4. Date:
5. Date:

\*\*\*\*\*

Methods to Minimize Soil Compaction and to Preserve Topsoil:

The General Contractor must avoid construction traffic and maintain the existing condition of pervious "green" areas.

Stormwater Control Design:

Permanent biofiltration ditch system being installed.

Chemical Treatment Systems to Enhance Sedimentation:

No chemical treatment systems to enhance sedimentation are anticipated for this Project. However, if there are, the contractor needs to reference the below permit requirement.

- Flocculants

MnDOT reference:

- Flocculants must be applied as specified on the plan included in this SWPPP.
- Liquid, Stock, or Granular Flocculant must be used and meet requirements of MnDOT spec. 3898.
- Flocculants must be installed as per MnDOT spec. 2573.3.N.

Impervious Surfaces pre- and post-construction: (See sheet E1.16 once updated)

Existing Impervious = 22.28 AC  
Proposed Impervious Area = 29.20 AC  
Increase of Total Impervious Surface Area= 6.92 AC

Infeasibility Documentation Requirements:

No infeasible documentation requirements are anticipated for the Project.

Site Assessments for Groundwater or Soil Contamination:

No site assessment for groundwater or soil contamination was conducted for the Project.

Tabulated Quantities:

\*See sheet 2, Estimated Quantities

SWPPP SHEETS

Minn. Proj. No. \_\_\_\_\_  
State Proj No. \_\_\_\_\_

County Proj. No. \_\_\_\_\_  
S.A.P. \_\_\_\_\_

012-604-021

CERTIFIED BY \_\_\_\_\_

12/16/2024

LICENSE NO. 58376

PROFESSIONAL ENGINEER

Sheet 5 of 7 Sheets

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

CONSTRUCTION ACTIVITY REQUIREMENTS:

Erosion Prevention Measures

- Exposed soils (including stockpiles) must have erosion protection/cover initiated immediately and completed within 14 days (or 7 days per Section 23).
- For DNR Public Waters with "work in waters restrictions" during specified fish spawning time frames, stabilization must be completed for all exposed soil areas within 200 feet of the water's edge, and draining to the water, within 24 hours during the restriction period.
- The wetted perimeter of the last 200 linear feet of ditches must be stabilized within 24 hours of connecting to a surface water or property line.
- Temporary or permanent ditches or swales that are being used as a sediment containment system during construction must be stabilized within 24 hours after no longer being used as a sediment containment system.
- Pipe outlets must have energy dissipation within 24 hours of connecting to a surface water or permanent stormwater treatment system.
- Mulch, hydromulch, tackifier, polyacrylamide, or similar erosion prevention practices cannot be used within the normal wetted perimeter of drainage ditches or swale sections with a continuous slope greater than 2%.

Sediment Control Measures

- Sediment control practices must be established on downgradient perimeters and upgradient of any buffer zones.
- Sediment control practices must be established at the base of stockpiles on the downgradient perimeter.
- Stockpiles must be located outside of natural buffers or surface waters, including stormwater conveyances (e.g., curb and gutter systems) unless there is a bypass.
- Inlet protection BMPs must be installed according to plan.
- Vehicle tracking BMPs must be established where vehicles are exiting the site to minimize street tracking. Sediment tracked onto a public street must be removed within 24 hours.
- Topsoil must be preserved unless infeasible.
- Soil compaction must be minimized.
- Discharges from BMPs must be directed to vegetated areas, unless infeasible.
- 50-foot natural buffers must be preserved or (if maintaining buffer is infeasible) redundant sediment controls must be provided when a surface water is located within 50 feet of the project's earth disturbances and drains to the surface water.

Dewatering and Basin Draining:

- If dewatering is required on the site, there must be a plan in place to prevent nuisance conditions, erosion, and inundation of wetlands.  
Dewatering related to the construction activity must comply with MNR100001 Permit 2018 reference 10 of the NPDES Permit. Dewatering discharge that may have turbid or sediment laden discharge must be discharged to a temporary or permanent sedimentation basin on the project site whenever possible and BMP's must be implemented to prevent water containing sediment or other pollutants from being discharged to surface waters or downstream properties.
- If using filters with backwash water, backwash water must be hauled away for disposal, returned to the beginning of the treatment process, or incorporated into the site in a manner that does not erode into runoff.

Inspection Requirements:

- The SWPPP must identify the trained person (as identified in item 21.2.b) who will conduct inspections.
- Inspections must be performed once every 7 days.
- Inspections must be performed within 24 hours of a rain event greater than 0.5 inches in 24 hours.
- Inspection and Maintenance records should include:
  - Date and time of inspection.
  - Name of person(s) conducting inspections.
  - Accurate findings of inspections, including the specific location where corrective actions are needed.
  - Corrective actions taken (including dates, times, and party completing maintenance activities).
  - Date and amount of rainfall events greater than 0.5 inch in 24 hours.
  - Rainfall amounts must be obtained by a properly maintained rain gauge installed onsite, or by a weather station that is within one mile or by a weather reporting system.
  - Requirements to observe any discharge that may be occurring during the inspection. Discharge should also be described and photographed.

Maintenance Requirements:

- All nonfunctional BMPs must be repaired, replaced, or supplemented with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow.
- Perimeter control devices must be repaired, replaced, or supplemented when nonfunctional or sediment reaches one-half the height of the device.
- Temporary and permanent sediment basins must be drained, and sediment removed when the depth of sediment collected reaches one-half storage volume.
- All sediment deposits and deltas must be removed from surface waters (including drainage ways, catch basins, and other drainage systems) and the removal areas restabilized within seven days.
- Sediment on paved surfaces (e.g., sediment tracked from vehicles) must be removed within one calendar day of discovery.

Pollution Prevention Management Measures:

- Proper storage, handling, and disposal of construction products, materials, and wastes is required.  
Hazardous materials and toxic waste (including oil, diesel fuel, gasoline, hydraulic fluids, paint solvents, petroleum-based products, wood preservatives, additives, curing compounds, and acids) must be stored in waterproof containers with secondary containment. Storage and disposal of hazardous waste must be in compliance with MPCA regulations. Runoff containing such material must be collected, removed from the site, treated, and disposed at an approved solid waste or chemical disposal facility. Building products that have the potential to leach pollutants and pesticides, fertilizers, treatment chemicals and landscape materials must be under cover by plastic sheeting or temporary roofs to prevent discharge or protected by similar effective means to prevent contact with stormwater.
- Address fueling and maintenance of equipment or vehicles and spill prevention and response.  
Spill cleanup materials must be available on site. Material must include but not limited to brooms, mops, rags, gloves, absorbent material, sand plastic and metal containers. Spills greater than 5 gallons that reach storm water conveyance systems connected to a Water of the State must be immediately reported to the MPCA State Duty Officer.
- Limit exterior vehicle and equipment washing to a defined area of the site.  
External washing of trucks and other construction vehicles must be limited to a defined area of the site. Runoff must be contained, and waste properly disposed of.
- Describe of the containment for concrete and other washout wastes.  
Concrete washout site: all liquid and solid wastes generated by concrete washout operations must be contained in a leak proof containment facility or impermeable liner. The liquid and solid wastes must not contact the ground, and there must not be runoff from the concrete washout operations or areas. Liquid and solid wastes must be disposed of properly and in compliance with the MPCA regulations. A sign must be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities.
- Portable toilets must be positioned so that they are secure.  
Licensed sanitary waste management handler must dispose of sanitary waste.

Permit Termination Conditions:

- Permanent uniform perennial vegetative cover must be established at minimum 70% density of its expected final growth.
- The permanent stormwater treatment system is constructed, meets all requirements, and is operating as designed.
- All temporary synthetic erosion prevention and sediment control BMPs must be removed and the surrounding area must be restored to as designed.
- Clean out sediment from conveyance systems and permanent stormwater treatment systems (return to design capacity).
- For residential sites, install temporary erosion protection and downgradient perimeter control and distribute the MPCA's Homeowner Fact Sheet.
- Submit a Notice of Termination (NOT) to the MPCA.

Record Retention Requirements:

- Permittees must keep the SWPPP, including all changes to it, and inspections and maintenance records at the site during normal working hours by permittees who have operational control of that portion of the site.  
The SWPPP and associated records must be stored and maintained by an employee or representative of the Owner for 3 years after the submission of the Notice of Termination (NOT). Responsibility for overseeing the records will be transferred to another employee or representative should the current personnel become uninvolved with the project or Owner. These records must include the following:
  - The final SWPPP
  - Any other stormwater related permits required for the project
  - Records of all inspection and maintenance conducted during construction
  - All permanent operation and maintenance agreements that have been implemented, including all right-of-way, contracts, covenants and other binding requirements regarding perpetual maintenance
  - All required calculations for design of the temporary and permanent Stormwater Management Systems.

MNDOT 2573.3 CONSTRUCTION REQUIREMENTS:

PERMITTEES MUST COMPLY WITH MINNESOTA 2018 STANDARD SPECIFICATIONS STORM WATER MANAGEMENT CONSTRUCTION REQUIREMENTS 2573.3 A THRU S.

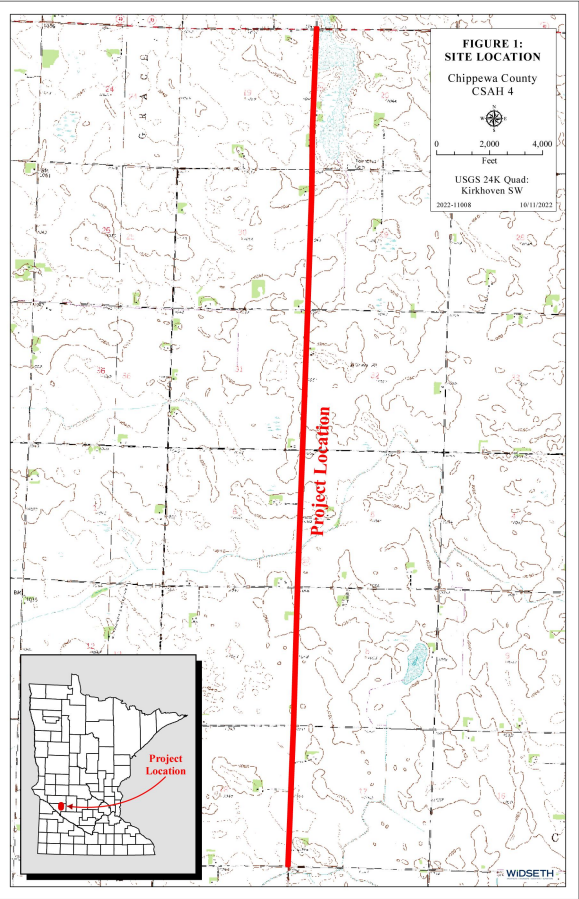
EROSION CONTROL SUPERVISOR: TBD and will be documented prior to start of construction.

Company: \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
City, State Zip \_\_\_\_\_  
Email \_\_\_\_\_  
Phone \_\_\_\_\_  
Training organization/sponsor \_\_\_\_\_  
Training date(s) \_\_\_\_\_  
Training activity/content \_\_\_\_\_  
Instructor(s) name(s) \_\_\_\_\_

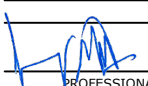
CHAIN OF RESPONSIBILITY: TBD and will be documented prior to start of construction.

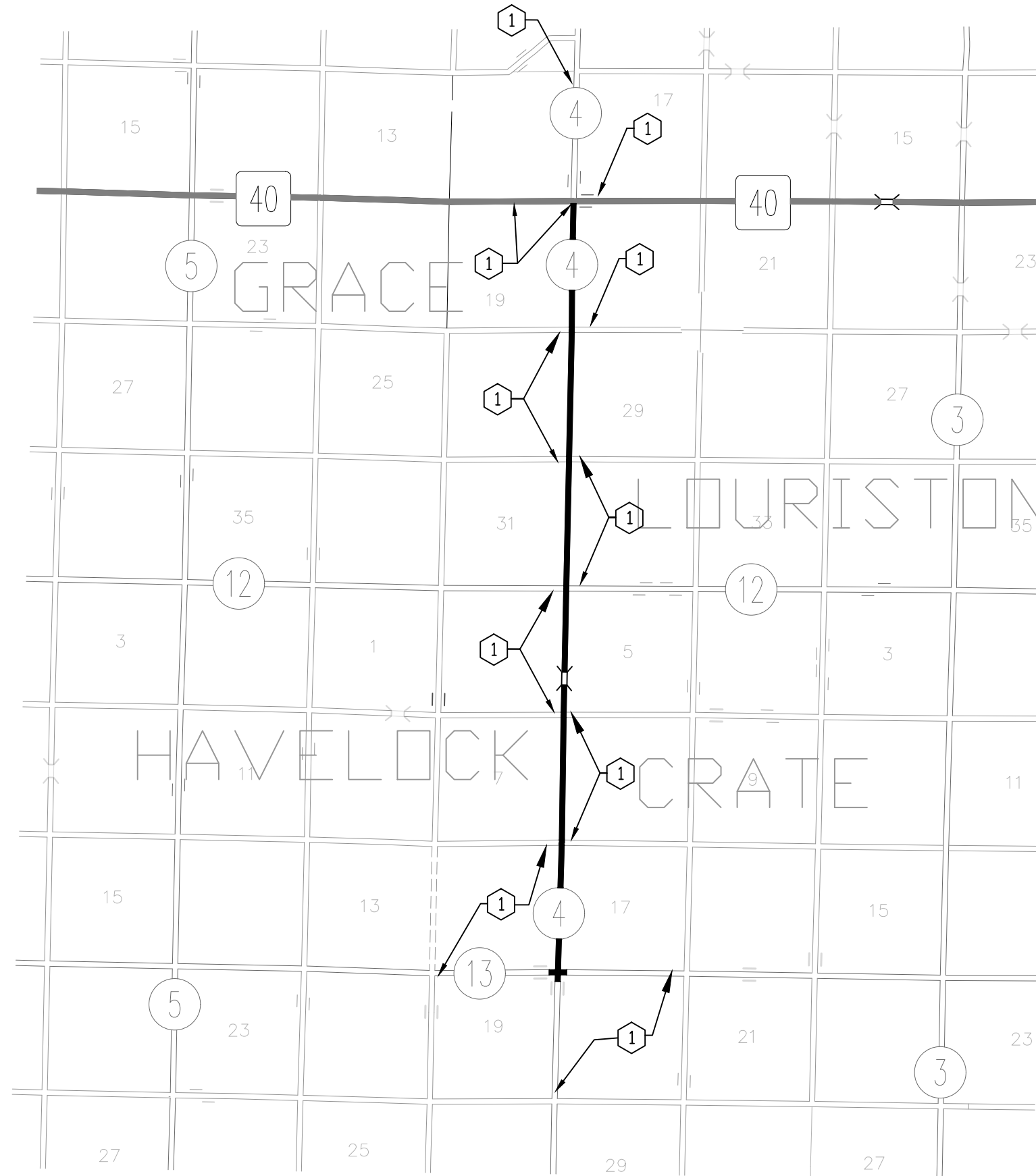
Contacts

Agency	Permit	Name	Phone Number
MPCA	NPDES	Marshall Office	507-537-7146
Chippewa County	Zoning/ Environmental	Scott Williams	320-269-6231
SWCD	WCA	Zach Bothun	320-269-2694
MNDNR	Area Hydrologist	Kyle Jarcho	507-537-7258
MNDNR	Groundwater Appropriations Hydrologist	Joshua prososki	218-671-7944
ACOE	404	St. Paul Office	651-290-5976
SWPPP Design	NPDES	Widseth	320-335-5051
EC Supervisor	NPDES	TBD	TBD
MPCA Duty Officer	NPDES	N/A	1-800-422-0798



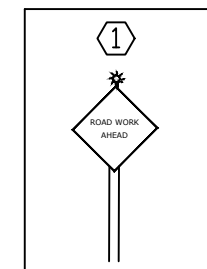
SWPPP SHEETS

Minn. Proj. No.	_____	County Proj. No.	_____
State Proj No.	_____	S.A.P.	012-604-021
CERTIFIED BY	 12/16/2024	LICENSE NO.	58376
		Sheet 6 of 7 Sheets	



TRAFFIC CONTROL NOTES:

- 1.) ALL TRAFFIC CONTROL SIGNING AND DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."
- 2.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADVANCE WARNING AND CONSTRUCTION ZONE SIGNING. MINIMUM ADVANCE WARNING SIGNING REQUIRED FOR THIS PROJECT ARE "ROAD WORK AHEAD" AT THE TERMINI AND ALL CROSS ROADS.
- 3.) CONSTRUCTION SIGNS AND BARRICADES THAT ARE PERIODICALLY REQUIRED TO BE MOVED DUE TO CONSTRUCTION OPERATIONS, SHALL BE PLACED AT LOCATIONS WHERE THEY GIVE SUFFICIENT WARNING TO MOTORISTS AND PEDESTRIANS OF THE CONDITIONS AHEAD AND SHALL BE RELOCATED AS NEEDED TO KEEP SIGNING CURRENT AT REQUIRED LOCATIONS.
- 4.) THE CONTRACTOR SHALL PROTECT AND RESTRICT ALL PEDESTRIANS FROM WORK AREAS.
- 5.) THE EXACT LOCATION OF ALL TRAFFIC CONTROL DEVICES SHALL BE DETERMINED AT THE SITE.
- 6.) ALL WARNING SIGNS SHALL HAVE A TYPE A FLASHER IN ALL LOCATIONS.
- 7.) SIGNING MUST BE APPROVED BY THE ENGINEER 24 HOURS BEFORE ANY WORK IS STARTED.
- 8.) SIGNS SHALL BE COVERED OR REMOVED WHEN THERE IS NO ACTIVE CONSTRUCTION ACTIVITY OR AS DIRECTED BY THE ENGINEER.



ALL SIGNS ARE SUPPLIED BY CONTRACTOR.

TRAFFIC CONTROL SHEET

CERTIFIED BY  12/16/2024

LICENSE NO. 58376

Minn. Proj. No. \_\_\_\_\_  
State Proj No. \_\_\_\_\_

County Proj. No. \_\_\_\_\_  
S.A.P. 012-604-021

Chippewa County, Minnesota.

Sheet 7 of 7 Sheets



HIGHWAY

MINNESOTA DEPARTMENT OF TRANSPORTATION

CHIPPEWA COUNTY

CONSTRUCTION PLAN FOR: MILL, OVERLAY & AGGREGATE SHOULDERING

LOCATED ON C.S.A.H. 4 BETWEEN T.H. 40 AND THE NORTH COUNTY LINE (CHIPPEWA-SWIFT ST NE)

13.5 MILES N OF MAYNARD (Geographic Description)

23' N OF THE SW COR. SEC.17 T119N R38W TO 27' N OF THE NW COR. SEC.5 T119N R38W (Legal Description)

GROSS LENGTH 15,906.46' 3.013 MILES

BRIDGES-LENGTH

EXCEPTIONS-LENGTH

NET LENGTH 15,906.46' 3.013 MILES

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MMUTCD, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX

SHEET NO. 1 TITLE SHEET  
SHEET NO. 2 ESTIMATED QUANTITIES & TYPICAL SECTION SHEET  
SHEET NO. 3 TRAFFIC CONTROL

Graded Under S.A.P. 012-604-001 (1967)

THIS PLAN CONTAINS 3 SHEETS

DESIGN DESIGNATION

§N18<sub>20</sub> .....  
R VALUE .....  
ADT (2025) 400  
PROJ. ADT (2045) 520  
PROJ. HCADT (2045) 70  
SOIL FACTOR 130  
10 TON DESIGN  
SHOULDER WIDTH 6 FEET  
BASED ON STOPPING SIGHT DISTANCE  
HEIGHT OF EYE 3.5 HEIGHT OF OBJECT 2.0  
POSTED SPEED 55 MPH

DESIGN SPEED NOT ACHIEVED AT:

STA. TO STA. MPH  
STA. TO STA. MPH  
STA. TO STA. MPH

SIGNATURE: TYPED OR PRINTED NAME: JEREMY L GILB

DESIGN ENGINEER: I HEREBY CERTIFY THAT THIS PLAN 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.

DATE: 11/12/2024 LICENSE NUMBER: 58376

APPROVED: COUNTY ENGINEER DATE: 11/12/2024

Todd Broadwell Digitally signed by Todd Broadwell  
Date: 2024.11.13 12:19:25 -06'00'

DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE-AID RULES/POLICY

Todd Broadwell Digitally signed by Todd Broadwell  
Date: 2024.11.13 12:20:00 -06'00'

STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C1/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES." THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AND DEPTHS RELEVANT TO CONSTRUCTION. EXCAVATION TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCIDENTAL. THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNERS AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. GOPHER STATE ONE CALL 1-800-252-1166.

LEGEND

PLAN SYMBOLS

- BENCHMARK
- SECTION CORNER
- FENCE POST
- ELECTRIC PEDISTAL
- TELEPHONE PEDISTAL
- LIGHT POLE
- POWER POLE
- MAIL BOX
- FIRE HYDRANT
- WATER VALVE
- FIBER OPTIC MARKER
- WETLAND SYMBOL
- SANITARY MANHOLE
- STORM MANHOLE
- LIFT STATION
- DECIDUOUS TREE
- CONIFEROUS TREE
- CATCH BASIN
- DROP INLET
- CULVERT
- RIGHT-OF-WAY LINE
- RAILROAD TRACKS
- SILT FENCE
- SILT FENCE TYPE MS
- DRAIN TILE
- PERF TILE LINE
- GUARDRAIL
- BIO ROLL
- FENCE WOOD
- FENCE CHAIN LINK
- FENCE BARB WIRE
- SLOPE EASEMENT
- TEMPORARY EASEMENT

UTILITIES SYMBOLS

- OVERHEAD POWER LINE
- OVERHEAD TELEPHONE LINE
- OVERHEAD CABLE TV
- WATER MAIN SEVICE
- WATER SERVICE LINE
- BURRIED TELEPHONE CABLE
- BURRIED POWER LINE
- BURRIED PETROLIUM PIPELINE
- BURRIED GAS PIPELINE
- BURRIED FIBER OPTIC

DRAINAGE

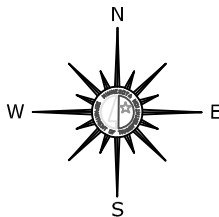
- INTERMITTENT STREAM
- NARROW STREAM
- WIDE STREAMS
- MARSH OR SWAMP LAND
- DRAINAGE DITCH
- LAKE OR POND

STRUCTURES

- HIGHWAY BRIDGE

PLAN 0 100' 200'

INDEX 1 MILE 0' 1 MILE  
MAP 1 1 MILE = 5280'



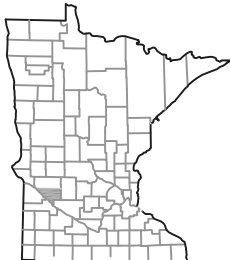
END SAP 012-604-024  
STA. 968+48.14

BEGIN SAP 012-604-024  
STA. 809+41.68

ROAD SYSTEM DESIGNATIONS

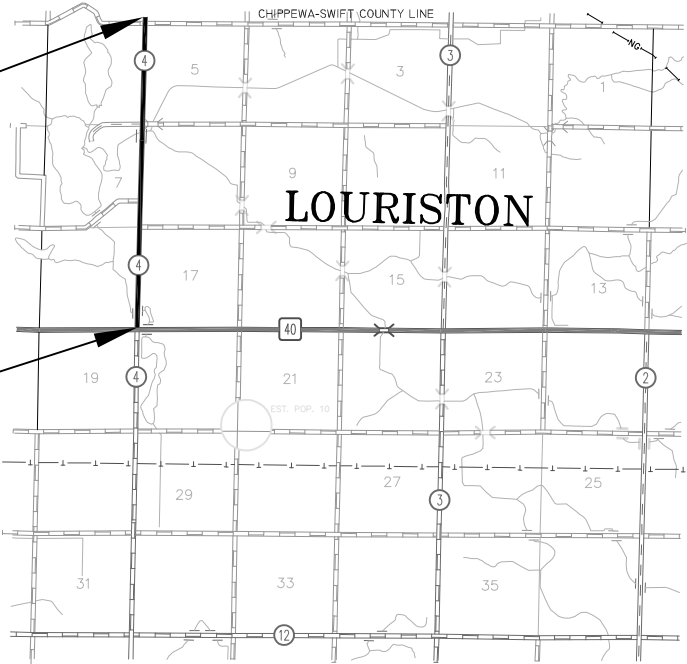
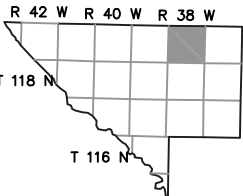
- INTERSTATE TRUNK HIGHWAY
- U.S. NUMBERED TRUNK HIGHWAY
- STATE NUMBERED TRUNK HIGHWAY
- COUNTY STATE AID HIGHWAY
- COUNTY ROAD

Outline Map of Minnesota showing location of the County within the State.



Outline Map of the County.

Area of this County 588 Sq. Miles  
Land Area 581 Sq. Miles  
2020 Total County Population 12,598



INDEX MAP 1

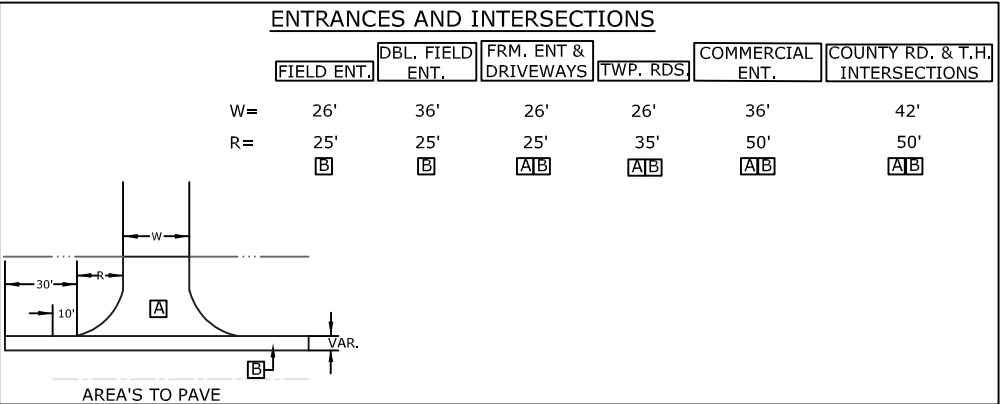
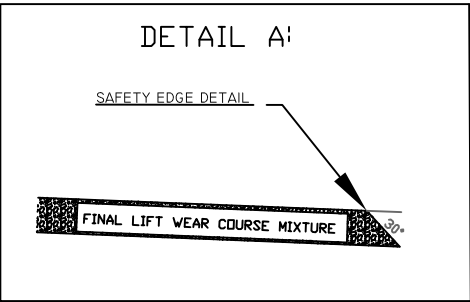
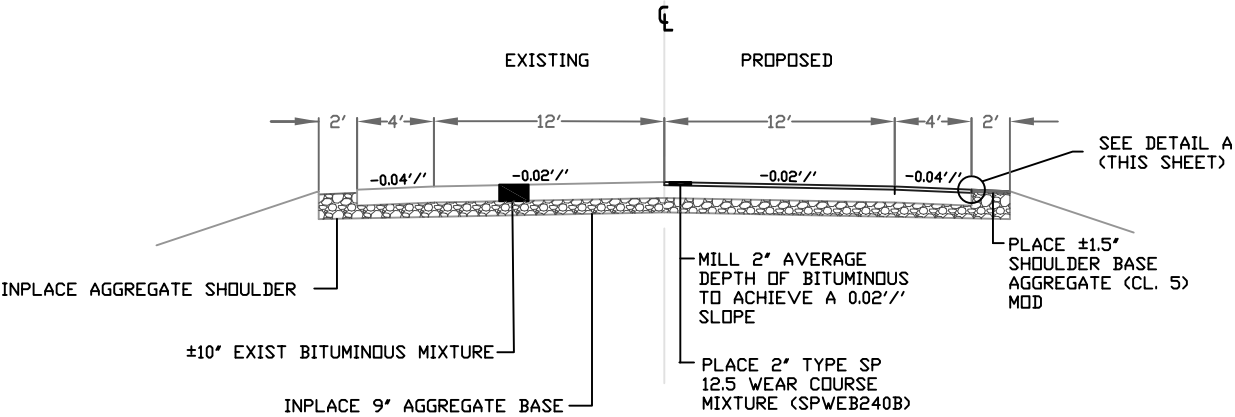
STATE AID PROJ. NO. 012-604-024

STATE PROJ. NO. SHEET NO. 1 OF 3 SHEETS

ESTIMATED QUANTITIES			
SPECIFICATION No.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
(1) 2021.501	MOBILIZATION	LUMP SUM	1
(2) 2221.609	SHOULDER BASE AGGREGATE CLASS 5 MOD	TON	912
(3) 2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ. YD.	58,807
(4) 2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (2,B)	TON	6,730
(5) 2360.509	TYPE SP 12.5 BITUMINOUS MIXTURE FOR PATCHING	TON	50
(6) 2563.601	TRAFFIC CONTROL	LUMP SUM	1
(7) 2580.501	INTERIM PAVEMENT MARKING	LUMP SUM	1
(8X9) 2582.603	4" BROKEN LINE PAINT	LIN. FT.	3,175
	4" SOLID LINE PAINT	LIN. FT.	32,112

- (1) SEE SPECIAL PROVISIONS. SEE THIS SHEET FOR PROPOSED DESIGN SECTION AND ALSO TO BE USED AS DIRECTED BY THE ENGINEER.
- (2) MILLINGS TO BECOME PROPERTY OF THE CONTRACTOR. INCLUDES 16,389 SQ. YD. FOR 4'-6' PAVED SHOULDERS, COUNTY ROAD RADIUS, TOWNSHIP ROAD RADIUS, FARM ENTRANCES, TOWN HALL ENTRANCE, FIELD ENTRANCES AT STA. 858+07 LT & AND STA. 875+45 RT, AND 2' MAILBOX BUMPOTS.
- (3) BITUMINOUS TACK MATERIAL INCLUDED IN BID PRICE FOR BITUMINOUS MIXTURE (APPLICATION SEE TABLE 2357.3-1) INCLUDES 1,851 TON FOR THE 4-6' SHOULDER PAVEMENT, COUNTY AND TOWNSHIP ROAD RADIUS, FARM ENTRANCES TOWN HALL ENTRANCE AND 2' MAILBOX BUMPOTS.
- (4) BITUMINOUS TACK MATERIAL INCLUDED IN BID PRICE FOR BITUMINOUS MIXTURE (APPLICATION RATE SEE TABLE 2357.3-1) INCLUDES PARKING ENTRANCE AT STA. 893+27. REMAINDER TO BE USED AS DIRECTED BY THE ENGINEER.
- (5) CONTRACTOR WILL FURNISH AND MAINTAIN ALL ADVANCE WARNING AND CONSTRUCTION ZONE SIGNS. SEE SPECIAL PROVISIONS.
- (6) INTERIM PAVEMENT MARKINGS SHALL BE PLACED ON MILLED AND PAVED LIFTS 4' WIDE x 4' LONG WITH MARKING TAPE AT 50' INTERVALS.
- (7) YELLOW PAINT. INCLUDES GLASS BEADS. PAYMENT IS FOR ACTUAL STRIPE PLACED, BASED ON THE 50 FOOT CYCLE, 40 FOOT SKIP AND 10 FOOT STRIPE. SEE SPECIAL PROVISIONS
- (8) YELLOW, CENTERLINE. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS. FOR ESTIMATED QUANTITIES: 4" YELLOW SOLID= 900 LIN. FT.
- (9) WHITE, EDGE LINES. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS. LOCATION: (809+75 TO 967+73 LT AND RT) AND TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS, AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY AN AGENCY PLACED YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE MAINLINE RADIUS. FOR ESTIMATED QUANTITIES: 4" WHITE EDGE LINE= 31,212 LIN. FT.

PROPOSED DESIGN SECTIONS  
STA. 809+41.68 - 968+48.14



CONSTRUCTION NOTES:

BASIS FOR PLAN QUANTITIES WEAR & BASE COURSE MIXTURE: 115 LBS. PER SQ. YD./IN.

AGGREGATE BASE: 105 LBS. PER SQ. YD./IN.

STANDARD PLATES

THE FOLLOWING STANDARD PLATES AS APPROVED BY F.H.W.A. SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
8000 K	TEMPORARY CHANNELIZERS
9000 E	APPROACHES AND ENTRANCES

ESTIMATED QUANTITY & TYPICAL SECTION SHEET

Minn. Proj. No.  
State Proj. No.

CERTIFIED BY

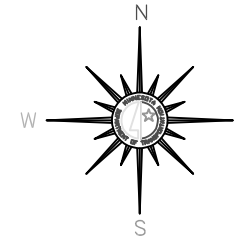
County Proj. No.  
S.A.P.

11/12/2024  
PROFESSIONAL ENGINEER

012-604-024

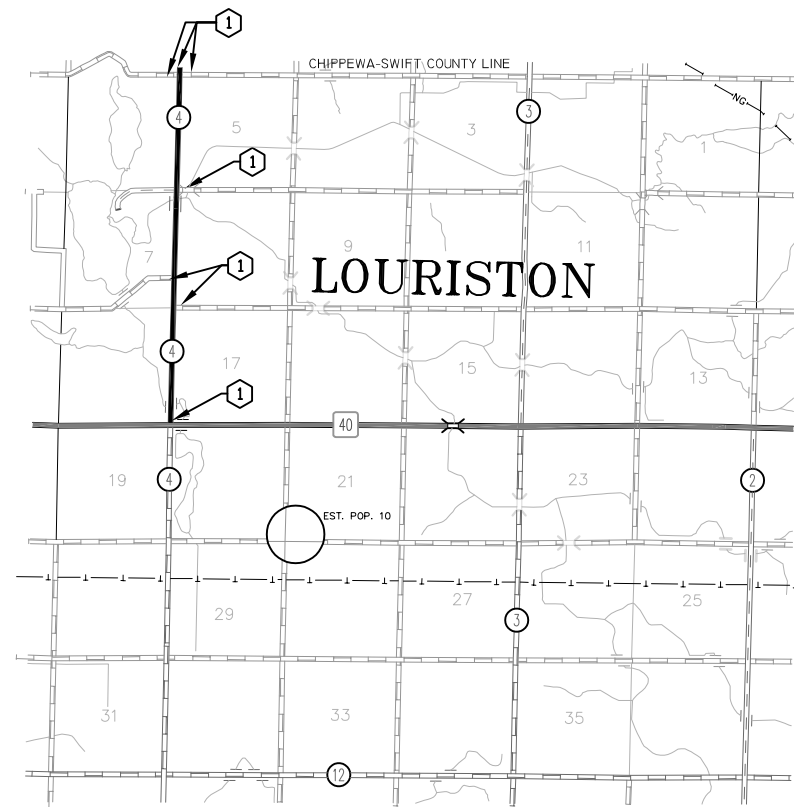
58376

Sheet 2 of 3 Sheets



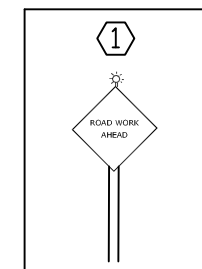
INDEX  
MAP 1

0 1 MILE 2 MILES




#### TRAFFIC CONTROL NOTES:

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ALL SIGNS ARE SUPPLIED BY CONTRACTOR.

TRAFFIC CONTROL SHEET

CERTIFIED BY  11/12/2024 LICENSE NO. 58376

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State Proj No. \_\_\_\_\_

County Proj. No. \_\_\_\_\_  
S.A.P. 012-604-024

Chippewa County, Minnesota. Sheet 3 of 3 Sheets



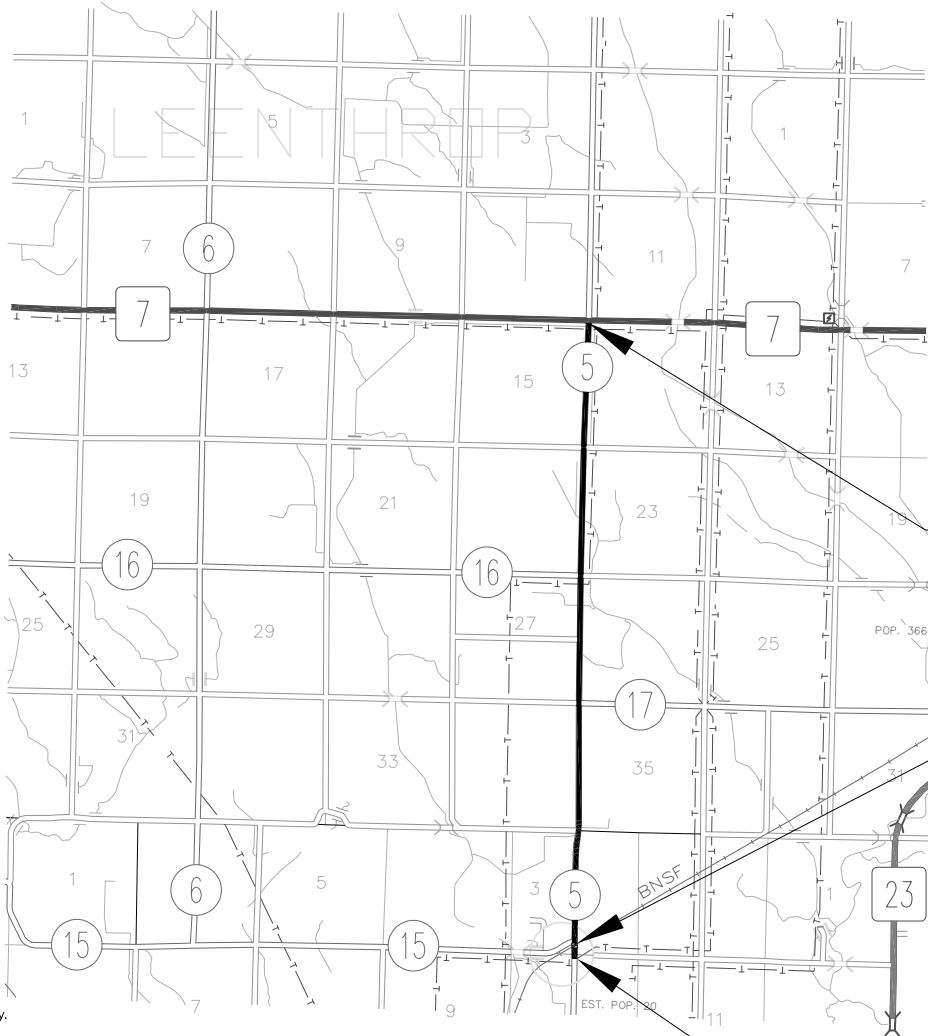
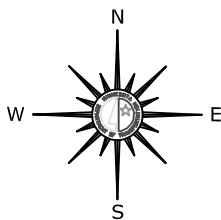
HIGHWAY

MINNESOTA DEPARTMENT OF TRANSPORTATION  
CHIPPEWA COUNTY

CONSTRUCTION PLAN FOR: MILL, OVERLAY & AGGREGATE SHOULDERING

LOCATED ON C.S.A.H. 5 BETWEEN 100th ST SE AND T.H. 7 3 MILES WEST OF MAYNARD (Geographic Description)  
FROM 82' S OF THE N 1/4 COR. SEC. 10 T116N R39W TO 26' S OF THE NE COR. SEC. 15 T117N R39W (Legal Description)

GROSS LENGTH 26,437.59' 5.007 MILES  
BRIDGES-LENGTH  
EXCEPTIONS-LENGTH 13' 0.002 MILES  
NET LENGTH 26,424.59' 5.005 MILES



END S.A.P. 012-605-021  
STA. 522+60.89

RAILROAD EXCEPTION  
262+61 - 262+74

BEGIN S.A.P. 012-605-021  
STA. 258+23.30

INDEX MAP 1

STATE PROJECT NO. \_\_\_\_\_  
STATE AID PROJ. NO. 012-605-021 SHEET NO. 1 OF 3 SHEETS

MINN. PROJ. NO. \_\_\_\_\_  
MINN. PROJ. NO. \_\_\_\_\_

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION  
"STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MMUTCD, INCLUDING  
THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX

SHEET NO. 1 TITLE SHEET  
SHEET NO. 2 ESTIMATED QUANTITIES & TYPICAL SECTION SHEETS  
SHEET NO. 3 TRAFFIC CONTROL SHEET

THIS PLAN CONTAINS 3 SHEETS

Graded Under S.A.P. 012-605-015 (2004)

DESIGN DESIGNATION

§N18<sub>20</sub> \_\_\_\_\_  
R VALUE \_\_\_\_\_  
ADT (2025) 720  
PROJ. ADT (2045) 1,210  
PROJ. HCADT (2045) \_\_\_\_\_  
SOIL FACTOR 130  
10 TON DESIGN  
SHOULDER WIDTH 6'  
BASED ON STOPPING SIGHT DISTANCE  
HEIGHT OF EYE 3.5 HEIGHT OF OBJECT 2.0  
POSTED SPEED 55 MPH

DESIGN SPEED NOT ACHIEVED AT:

STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH \_\_\_\_\_  
STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH \_\_\_\_\_  
STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ TYPED OR PRINTED NAME: JEREMY L GILB

DESIGN ENGINEER: I HEREBY CERTIFY THAT THIS PLAN 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.

DATE: 11/12/2024 LICENSE NUMBER: 58376

DATE: 11/12/2024

APPROVED: COUNTY ENGINEER

Todd Broadwell Digitally signed by Todd Broadwell  
Date: 2024.11.13 12:21:46 -06'00'

DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE-AID  
RULES/POLICY

Todd Broadwell Digitally signed by Todd Broadwell  
Date: 2024.11.13 12:22:19 -06'00'

STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY  
QUALITY LEVEL D. THIS UTILITY LEVEL WAS DETERMINED ACCORDING  
TO THE GUIDELINES OF C/ASCE 38-22, ENTITLED "STANDARD GUIDELINES  
FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES."  
THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AND DEPTHS  
RELEVANT TO CONSTRUCTION. EXCAVATION TO LOCATE EXISTING UNDERGROUND  
UTILITIES SHALL BE INCIDENTAL. THE CONTRACTOR SHALL NOTIFY THE  
UTILITY OWNERS AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.  
GOPHER STATE ONE CALL 1-800-252-1166.

LEGEND

PLAN SYMBOLS

- BENCHMARK
- SECTION CORNER
- FENCE POST
- ELECTRIC PEDISTAL
- TELEPHONE PEDISTAL
- LIGHT POLE
- POWER POLE
- MAIL BOX
- FIRE HYDRANT
- WATER VALVE
- FIBER OPTIC MARKER
- WETLAND SYMBOL
- SANITARY MANHOLE
- STORM MANHOLE
- LIFT STATION
- DECIDUOUS TREE
- CONIFEROUS TREE
- CATCH BASIN
- DROP INLET
- CULVERT
- RIGHT-OF-WAY LINE
- RAILROAD TRACKS
- SILT FENCE
- SILT FENCE TYPE MS
- DRAIN TILE
- PERF TILE LINE
- GUARDRAIL
- BIO ROLL
- FENCE WOOD
- FENCE CHAIN LINK
- FENCE BARB WIRE
- SLOPE EASEMENT
- TEMPORARY EASEMENT

UTILITIES SYMBOLS

- OVERHEAD POWER LINE
- OVERHEAD TELEPHONE LINE
- OVERHEAD CABLE TV
- WATER MAIN SERVICE
- WATER SERVICE LINE
- BURIED TELEPHONE CABLE
- BURIED POWER LINE
- BURIED PETROLEUM PIPELINE
- BURIED GAS PIPELINE
- BURIED FIBER OPTIC

DRAINAGE

- INTERMITTENT STREAM
- NARROW STREAM
- WIDE STREAMS
- MARSH OR SWAMP LAND
- DRAINAGE DITCH
- LAKE OR POND

STRUCTURES

- HIGHWAY BRIDGE

PLAN 0 100' 200'

INDEX 1 MILE 0' 1 MILE  
MAP 1 1 MILE = 5280'

ROAD SYSTEM DESIGNATIONS

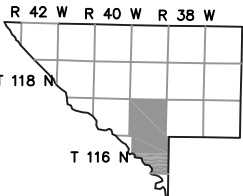
- INTERSTATE TRUNK HIGHWAY
- U.S. NUMBERED TRUNK HIGHWAY
- STATE NUMBERED TRUNK HIGHWAY
- COUNTY STATE AID HIGHWAY
- COUNTY ROAD

Outline Map of Minnesota showing  
location of the County within the State.



Outline Map of the County.

Area of this County 588 Sq. Miles  
Land Area 581 Sq. Miles  
2020 Total County Population 12,598

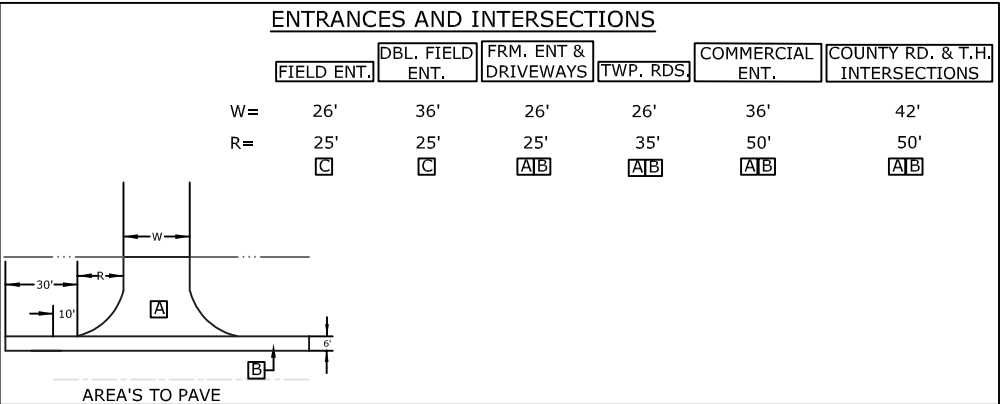


ESTIMATED QUANTITIES			
SPECIFICATION No.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
(1)	2021.501 MOBILIZATION	LUMP SUM	1
(2)	2221.609 SHOULDER BASE AGGREGATE CLASS 5 MOD	TON	3,923
(2)	2232.504 MILL BITUMINOUS SURFACE (1.75")	SQ. YD.	88,391
(3)	2360.509 TYPE SP 12.5 WEARING COURSE MIXTURE (2,B)	TON	8,895
(4)	2360.509 TYPE SP 12.5 BITUMINOUS MIXTURE FOR PATCHING	TON	150
(5)	2563.601 TRAFFIC CONTROL	LUMP SUM	1
(6)	2580.501 INTERIM PAVEMENT MARKING	LUMP SUM	1
(7)	2582.518 PAVEMENT MESSAGE PAINT	SQ. FT.	62
(8)(9)	2582.603 4" BROKEN LINE PAINT	LIN. FT.	5,145
(9)	2582.603 4" SOLID LINE PAINT	LIN. FT.	2,338
(9)	2582.603 4" DOUBLE SOLID LINE PAINT	LIN. FT.	671
(10)	2582.603 6" SOLID LINE PAINT	LIN. FT.	51,927
(11)	2582.603 24" SOLID LINE PAINT	LIN. FT.	58

CONSTRUCTION NOTES:

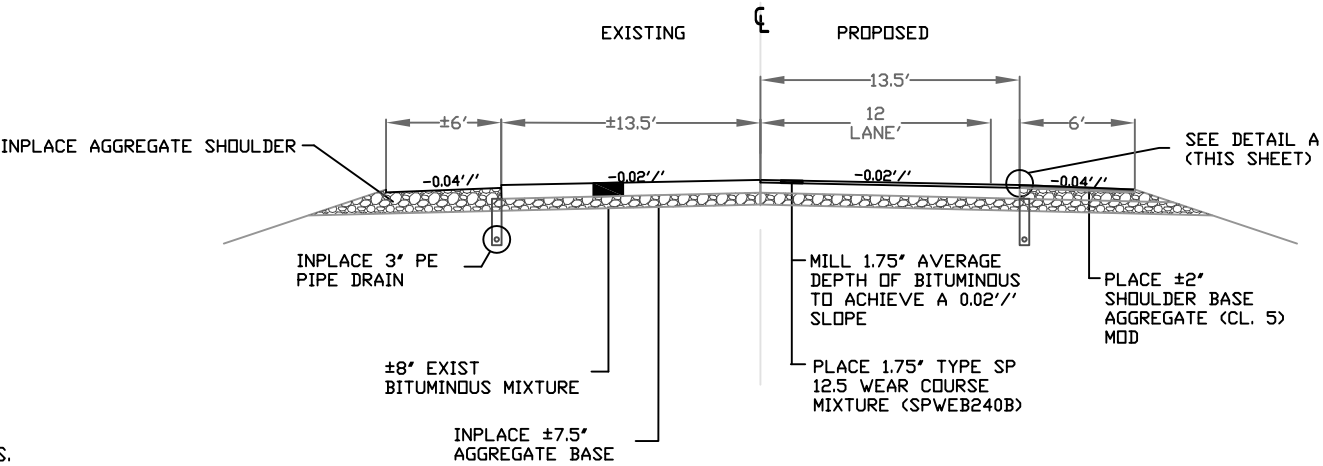
BASIS FOR PLAN QUANTITIES WEAR & BASE COURSE MIXTURE: 115 LBS. PER SQ. YD./IN.

AGGREGATE BASE: 105 LBS. PER SQ. YD./IN.



PROPOSED DESIGN SECTIONS

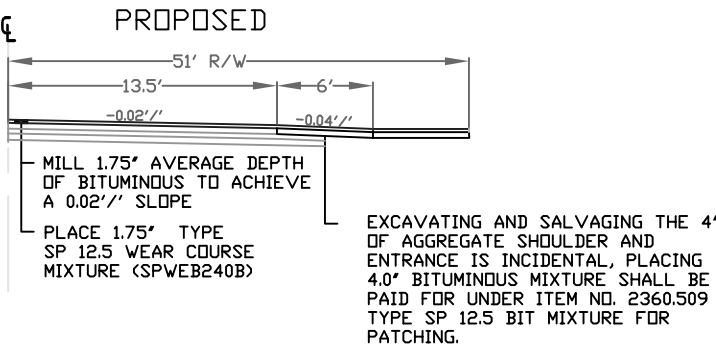
STA. 258+20.35 - 522+60.89



PROPOSED DESIGN SECTIONS

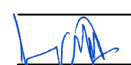
6' PAVED SHOULDER STA. 395+70 RT TO STA. 396+50 RT

FARM ENTRANCE STA. 395+50 RT



\*\*\*\*(MUST BE PLACED PRIOR TO WEAR COURSE MIXTURE)

ESTIMATED QUANTITY & TYPICAL SECTION SHEET

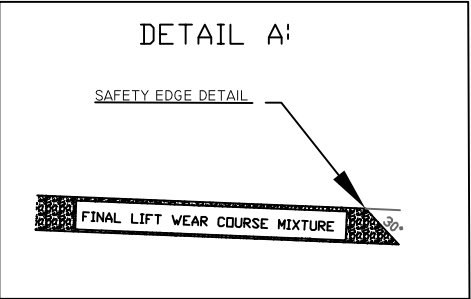
Minn. Proj. No. \_\_\_\_\_ County Proj. No. \_\_\_\_\_  
State Proj. No. \_\_\_\_\_ S.A.P. 012-605-021  
CERTIFIED BY  11/12/2024 LICENSE NO. 58376  
PROFESSIONAL ENGINEER

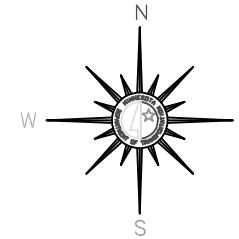
- (1) SEE SPECIAL PROVISIONS. SEE THIS SHEET FOR PROPOSED DESIGN SECTION AND ALSO TO BE USED AS DIRECTED BY THE ENGINEER.
- (2) MILLINGS TO BECOME PROPERTY OF THE CONTRACTOR. INCLUDES 9,216 SQ. YD. FOR ±6' PAVED SHOULDERS, TRUNK HIGHWAY RADIUS, COUNTY ROAD RADIUS, TOWNSHIP ROAD RADIUS AND FARM ENTRANCES.
- (3) BITUMINOUS TACK MATERIAL INCLUDED IN BID PRICE FOR BITUMINOUS MIXTURE (APPLICATION SEE TABLE 2357.3-1) INCLUDES 916 TON FOR THE ±6' SHOULDER PAVEMENT, FARM ENTRANCES, TRUNK HIGHWAY, COUNTY AND TOWNSHIP ROAD RADIUS.
- (4) BITUMINOUS TACK MATERIAL INCLUDED IN BID PRICE FOR BITUMINOUS MIXTURE (APPLICATION RATE SEE TABLE 2357.3-1) INCLUDES 56 TON FOR 4 INCH BASE LAYERS FOR NEW FARM ENTRANCE AT STA. 395+50 RT AND PAVED SHOULDER FROM STA. 395+70 RT TO 396+50 RT. REMAINDER TO BE USED AS DIRECTED BY THE ENGINEER.
- (5) CONTRACTOR WILL FURNISH AND MAINTAIN ALL ADVANCE WARNING AND CONSTRUCTION ZONE SIGNS. SEE SPECIAL PROVISIONS.
- (6) INTERIM PAVEMENT MARKINGS SHALL BE PLACED ON MILLED AND PAVED LIFTS 4' WIDE × 4' LONG WITH MARKING TAPE AT 50' INTERVALS.
- (7) WHITE, RAILROAD PAVEMENT MARKINGS. EACH INCLUDE A 36'×72' (RR) & 78'×240' (X). TO BE PLACED AT ORIGINAL LOCATIONS AND LENGTHS. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS.
- (8) PAYMENT IS FOR ACTUAL STRIPE PLACED, BASED ON THE 50 FOOT CYCLE, 40 FOOT SKIP AND 10 FOOT STRIPE. SEE SPECIAL PROVISIONS
- (9) YELLOW, CENTERLINE. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS.
- (10) WHITE, EDGE LINES. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS. LOCATION: (258+23.30 TO 522+00.89 LT) AND (258+23.30 TO 522+24.89 RT) AND TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS, AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY AN AGENCY PLACED YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE MAINLINE RADIUS.
- (11) WHITE, STOP LINES AND BARS FOR RAILROAD CROSSING TO BE PLACED AT ORIGINAL LOCATIONS AND LENGTHS. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS.

STANDARD PLATES

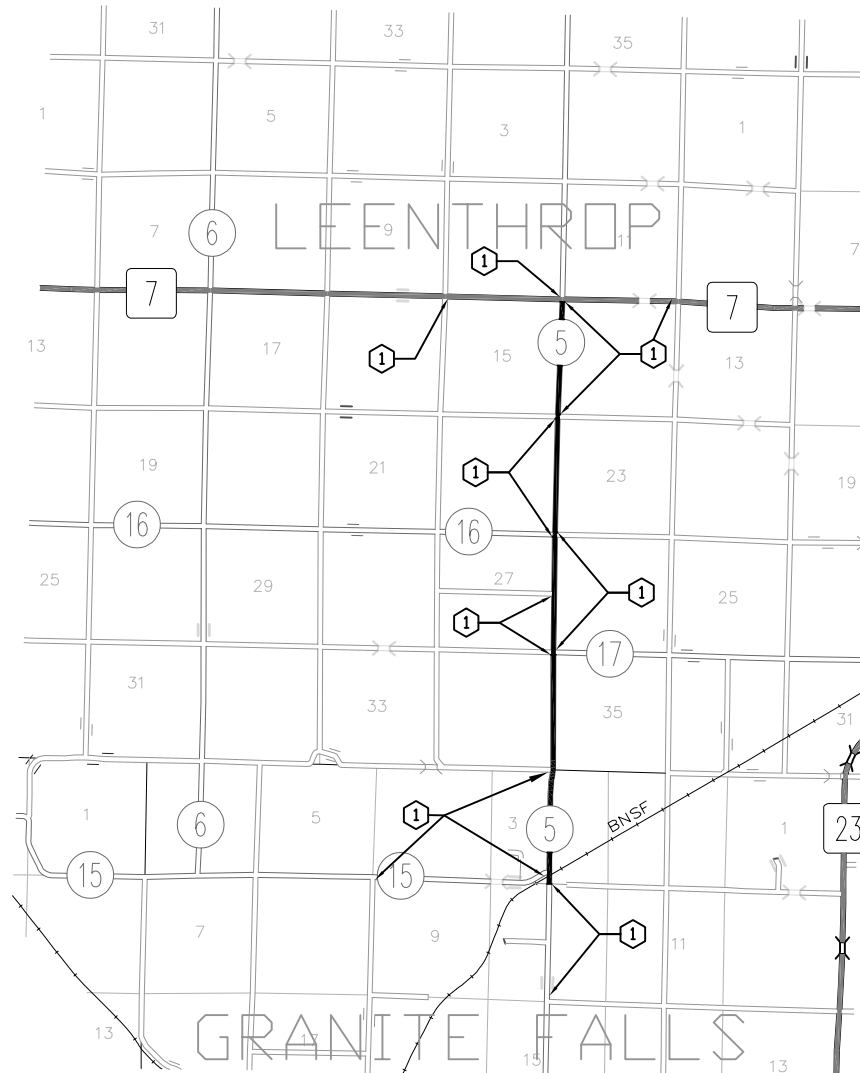
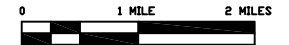
THE FOLLOWING STANDARD PLATES AS APPROVED BY F.H.W.A. SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
8000 K	TEMPORARY CHANNELIZERS
9000 E	APPROACHES AND ENTRANCES



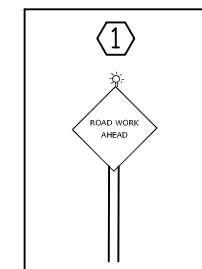


INDEX  
MAP 1




#### TRAFFIC CONTROL NOTES:

- 1.) ALL TRAFFIC CONTROL SIGNING AND DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."
- 2.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADVANCE WARNING AND CONSTRUCTION ZONE SIGNING. MINIMUM ADVANCE WARNING SIGNING REQUIRED FOR THIS PROJECT ARE "ROAD WORK AHEAD" AT THE TERMINI AND ALL CROSS ROADS.
- 3.) CONSTRUCTION SIGNS AND BARRICADES THAT ARE PERIODICALLY REQUIRED TO BE MOVED DUE TO CONSTRUCTION OPERATIONS, SHALL BE PLACED AT LOCATIONS WHERE THEY GIVE SUFFICIENT WARNING TO MOTORISTS AND PEDESTRIANS OF THE CONDITIONS AHEAD AND SHALL BE RELOCATED AS NEEDED TO KEEP SIGNING CURRENT AT REQUIRED LOCATIONS.
- 4.) THE CONTRACTOR SHALL PROTECT AND RESTRICT ALL PEDESTRIANS FROM WORK AREAS.
- 5.) THE EXACT LOCATION OF ALL TRAFFIC CONTROL DEVICES SHALL BE DETERMINED AT THE SITE.
- 6.) ALL WARNING SIGNS SHALL HAVE A TYPE A FLASHER IN ALL LOCATIONS.
- 7.) SIGNING MUST BE APPROVED BY THE ENGINEER 24 HOURS BEFORE ANY WORK IS STARTED.
- 8.) SIGNS SHALL BE COVERED OR REMOVED WHEN THERE IS NO ACTIVE CONSTRUCTION ACTIVITY OR AS DIRECTED BY THE ENGINEER.



ALL SIGNS ARE SUPPLIED BY CONTRACTOR.

TRAFFIC CONTROL SHEET

CERTIFIED BY  11/12/2024 LICENSE NO. 58376

Minn. Proj. No. \_\_\_\_\_  
State Proj No. \_\_\_\_\_

County Proj. No. \_\_\_\_\_  
S.A.P. 012-605-021

Chippewa County, Minnesota.

Sheet 3 of 3 Sheets



MINNESOTA DEPARTMENT OF TRANSPORTATION

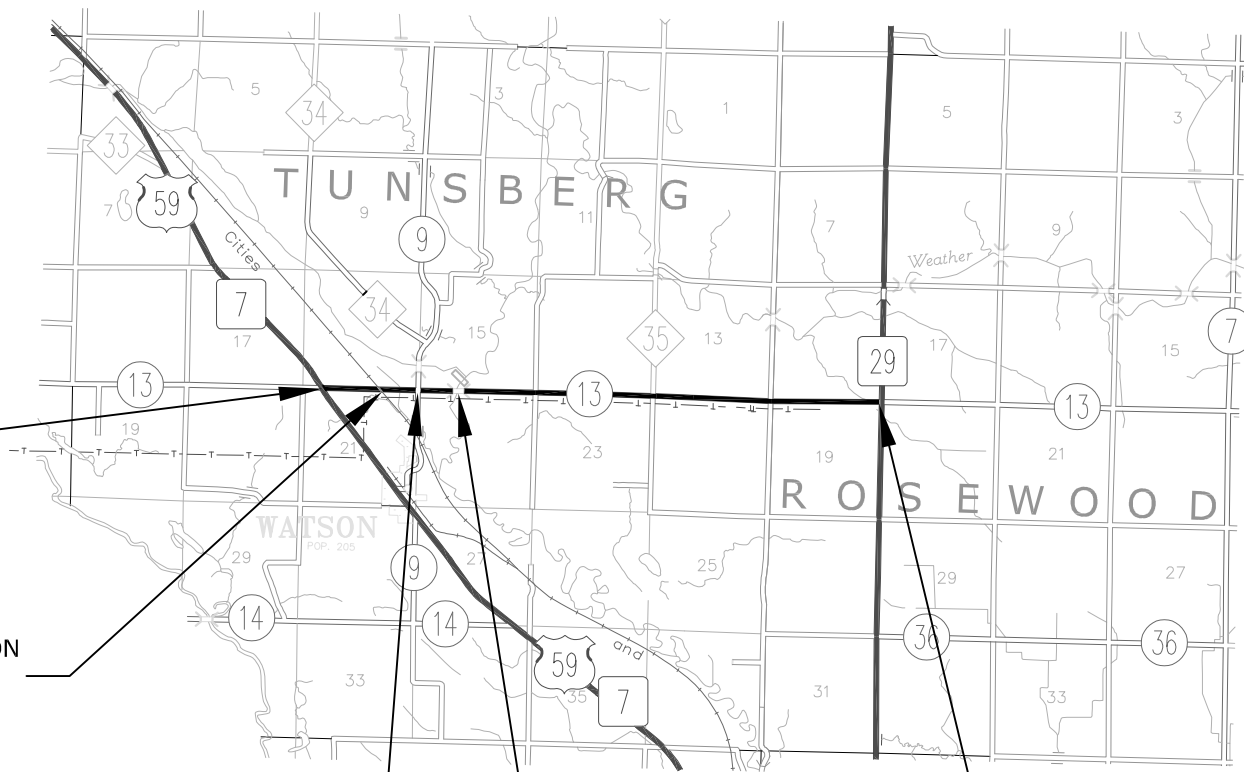
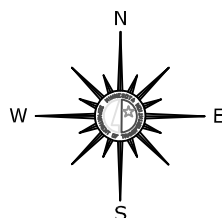
CHIPPEWA COUNTY

CONSTRUCTION PLAN FOR: MILL, OVERLAY & AGGREGATE SHOULDERING

LOCATED ON C.S.A.H. 13 BETWEEN T.H. 7/59 AND T.H. 29 0.89 MILES NW OF WATSON (Geographic Description)  
858.7' E OF THE NW COR. SEC. 21 T118N R41W TO 21' W OF THE NE COR. SEC. 19 T118N R40W (Legal Description)

GROSS LENGTH 25,363.83' 4.804 MILES  
BRIDGES-LENGTH 152' 0.029 MILES

EXCEPTIONS-LENGTH 125' 0.024 MILES  
NET LENGTH 25,086.83' 0.4751 MILES



BEGIN S.A.P. 012-613-031  
STA. 140+23.44

RAILROAD EXCEPTION  
STA. 166+32.44 TO  
STA. 166+46.44

EXCEPTION  
STA. 183+69.01 TO  
STA. 184+80.01

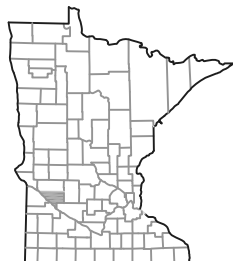
BRIDGE EXCEPTION  
STA. 200+43.44 TO  
STA. 201+95.44

END S.A.P. 012-613-031  
STA. 393+87.27

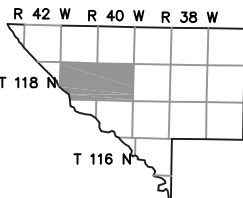
ROAD SYSTEM DESIGNATIONS

INTERSTATE TRUNK HIGHWAY . . . . . 35  
U.S. NUMBERED TRUNK HIGHWAY . . . . . 65  
STATE NUMBERED TRUNK HIGHWAY . . . . . 18  
COUNTY STATE AID HIGHWAY . . . . . 5  
COUNTY ROAD . . . . . 12

Outline Map of Minnesota showing  
location of the County within the State.



Outline Map of the County.  
Area of this County 588 Sq. Miles  
Land Area 581 Sq. Miles  
2020 Total County Population 12,598



INDEX MAP 1

LEGEND

PLAN SYMBOLS

- BENCHMARK
- SECTION CORNER
- FENCE POST
- ELECTRIC PEDISTAL
- TELEPHONE PEDISTAL
- LIGHT POLE
- POWER POLE
- MAIL BOX
- FIRE HYDRANT
- WATER VALVE
- FIBER OPTIC MARKER
- WETLAND SYMBOL
- SANITARY MANHOLE
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- RAILROAD TRACKS
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- PERF TILE LINE
- GUARDRAIL
- BIO ROLL
- FENCE WOOD
- FENCE CHAIN LINK
- FENCE BARB WIRE
- SLOPE EASEMENT
- TEMPORARY EASEMENT

UTILITIES SYMBOLS

- OVERHEAD POWER LINE
- OVERHEAD TELEPHONE LINE
- OVERHEAD CABLE TV
- WATER MAIN SEVICE
- WATER SERVICE LINE
- BURRIED TELEPHONE CABLE
- BURRIED POWER LINE
- BURRIED PETROLIUM PIPELINE
- BURRIED GAS PIPELINE
- BURRIED FIBER OPTIC

DRAINAGE

- INTERMITTENT STREAM
- NARROW STREAM
- WIDE STREAMS
- MARSH OR SWAMP LAND
- DRAINAGE DITCH
- LAKE OR POND

STRUCTURES

- HIGHWAY BRIDGE

PLAN 0 100' 200'

INDEX 1 MILE 0' 1 MILE  
MAP 1 1 MILE = 5280'

MINN. PROJ. NO. \_\_\_\_\_

MINN. PROJ. NO. \_\_\_\_\_

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INDEX

SHEET NO. 1 TITLE SHEET  
SHEET NO. 2 ESTIMATED QUANTITIES & TYPICAL SECTION SHEET  
SHEET NO. 3 TRAFFIC CONTROL

Graded Under S.A.P. 012-613-017 (1986)

THIS PLAN CONTAINS 3 SHEETS

DESIGN DESIGNATION

§N18<sub>20</sub> .....  
R VALUE .....  
ADT (2025) 540  
PROJ. ADT (2045) 594  
PROJ. HCADT (2045) 53  
SOIL FACTOR 110  
10 TON DESIGN  
SHOULDER WIDTH 6 FEET  
BASED ON STOPPING SIGHT DISTANCE  
HEIGHT OF EYE 3.5 HEIGHT OF OBJECT 2.0  
POSTED SPEED 55 MPH

DESIGN SPEED NOT ACHIEVED AT:

STA. .... TO STA. .... MPH .....  
STA. .... TO STA. .... MPH .....  
STA. .... TO STA. .... MPH .....

SIGNATURE: \_\_\_\_\_ TYPED OR PRINTED NAME: JEREMY L GILB

DESIGN ENGINEER: I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY  
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DATE: 11/12/2024 LICENSE NUMBER: 58376

DATE: 11/12/2024

APPROVED: COUNTY ENGINEER

Todd Broadwell Digitally signed by Todd Broadwell  
Date: 2024.11.13 12:23:37 -06'00'

DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE-AID  
RULES/POLICY

Todd Broadwell Digitally signed by Todd Broadwell  
Date: 2024.11.13 12:24:14 -06'00'

STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY  
QUALITY LEVEL D. THIS UTILITY LEVEL WAS DETERMINED ACCORDING  
TO THE GUIDELINES OF C1/ASCE 38-22, ENTITLED "STANDARD GUIDELINES  
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THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AND DEPTHS  
RELEVANT TO CONSTRUCTION. EXCAVATION TO LOCATE EXISTING UNDERGROUND  
UTILITIES SHALL BE INCIDENTAL. THE CONTRACTOR SHALL NOTIFY THE  
UTILITY OWNERS AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.  
GOPHER STATE ONE CALL 1-800-252-1166.

STATE AID PROJ. NO. 012-613-031

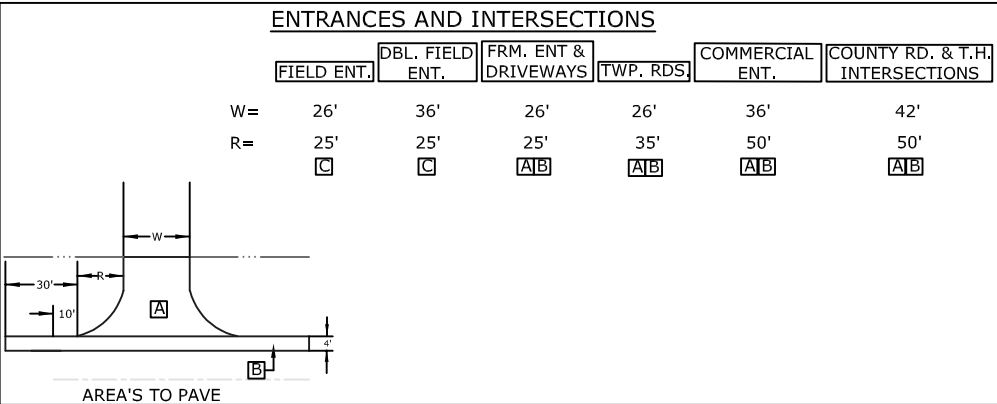
STATE PROJ. NO. \_\_\_\_\_ SHEET NO. 1 OF 3 SHEETS

ESTIMATED QUANTITIES			
SPECIFICATION No.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
(1)	2021.501 MOBILIZATION	LUMP SUM	1
(2)	2221.609 SHOULDER BASE AGGREGATE CLASS 5 MOD	TON	2805
(2)	2232.504 MILL BITUMINOUS SURFACE (2.0")	SQ. YD.	82,230
(3)	2360.509 TYPE SP 12.5 WEARING COURSE MIXTURE (2,B)	TON	9,457
(4)	2360.509 TYPE SP 12.5 BITUMINOUS MIXTURE FOR PATCHING	TON	150
(5)	2563.601 TRAFFIC CONTROL	LUMP SUM	1
(6)	2580.501 INTERIM PAVEMENT MARKING	LUMP SUM	1
(11)	2582.518 PAVEMENT MESSAGE PAINT	SQ. FT.	124
(7)(8)	2582.603 4" BROKEN LINE PAINT	LIN. FT.	4,014
(8)	2582.603 4" SOLID LINE PAINT	LIN. FT.	7,314
(8)	2582.603 4" DOUBLE SOLID LINE PAINT	LIN. FT.	5,124
(9)	2582.603 6" SOLID LINE PAINT	LIN. FT.	49,924
(10)	2582.603 24" SOLID LINE PAINT	LIN. FT.	94

CONSTRUCTION NOTES:

BASIS FOR PLAN QUANTITIES WEAR & BASE COURSE MIXTURE: 115 LBS. PER SQ. YD./IN.

AGGREGATE BASE: 105 LBS. PER SQ. YD./IN.

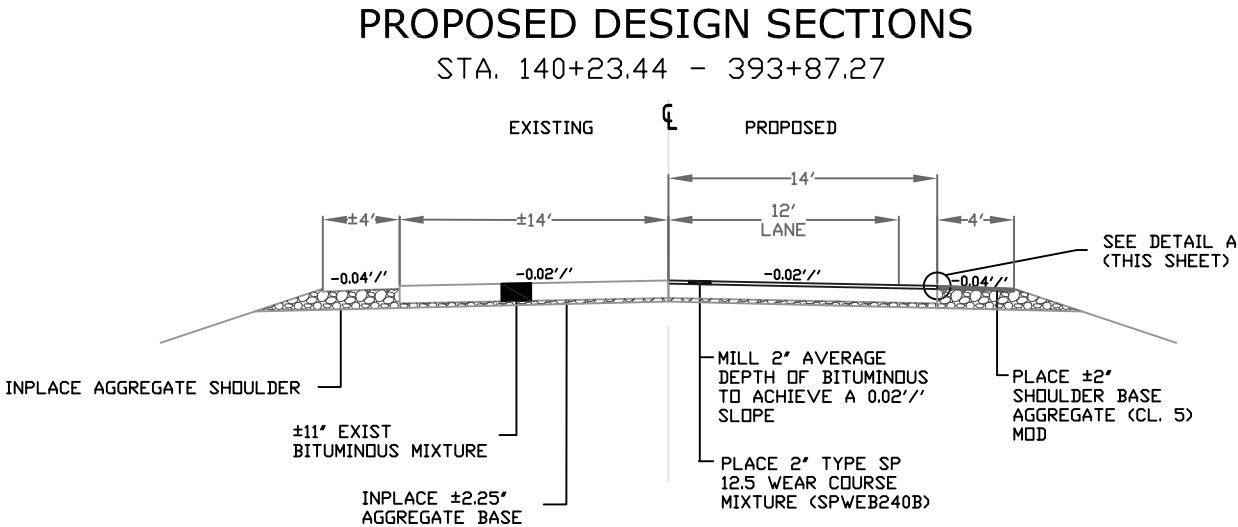
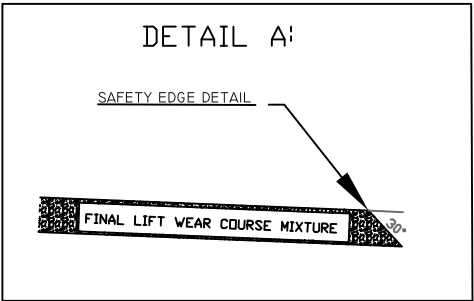


- (1) SEE SPECIAL PROVISIONS. SEE THIS SHEET FOR PROPOSED DESIGN SECTION AND ALSO TO BE USED AS DIRECTED BY THE ENGINEER.
- (2) MILLINGS TO BECOME PROPERTY OF THE CONTRACTOR. INCLUDES 4,182 SQ. YD. FOR ±4' PAVED SHOULDERS, TRUNK HIGHWAY RADIUS, COUNTY ROAD RADIUS, TOWNSHIP ROAD RADIUS AND FARM ENTRANCES.
- (3) BITUMINOUS TACK MATERIAL INCLUDED IN BID PRICE FOR BITUMINOUS MIXTURE (APPLICATION SEE TABLE 2357.3-1) INCLUDES 481 TON FOR THE ±4' SHOULDER PAVEMENT, FARM ENTRANCES, TRUNK HIGHWAY, COUNTY AND TOWNSHIP ROAD RADIUS.
- (4) BITUMINOUS TACK MATERIAL INCLUDED IN BID PRICE FOR BITUMINOUS MIXTURE (APPLICATION RATE SEE TABLE 2357.3-1) INCLUDES 84 TON FOR BASE LAYER FOR NEW COMMERCIAL ENTRANCE AT STA. 147+03 LT, FARM ENTRANCE AT STA. 149+43 LT AND PAVED SHOULDER FROM STA. 146+35 LT TO 150+11 LT. REMAINDER TO BE USED AS DIRECTED BY THE ENGINEER.
- (5) CONTRACTOR WILL FURNISH AND MAINTAIN ALL ADVANCE WARNING AND CONSTRUCTION ZONE SIGNS. SEE SPECIAL PROVISIONS.
- (6) INTERIM PAVEMENT MARKINGS SHALL BE PLACED ON MILLED AND PAVED LIFTS 4' WIDE × 4' LONG WITH MARKING TAPE AT 50' INTERVALS.
- (7) PAYMENT IS FOR ACTUAL STRIPE PLACED, BASED ON THE 50 FOOT CYCLE, 40 FOOT SKIP AND 10 FOOT STRIPE. SEE SPECIAL PROVISIONS
- (8) YELLOW, CENTERLINE. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS.
- (9) WHITE, EDGE LINES. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS. LOCATION: (140+30.44 TO 393+51.27 LT) AND (141+20.44 TO 393+51.27 RT) AND TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS, AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY AN AGENCY PLACED YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE MAINLINE RADIUS.
- (10) WHITE, STOP LINES AND BARS FOR RAILROAD CROSSING TO BE PLACED AT ORIGINAL LOCATIONS AND LENGTHS. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS.
- (11) WHITE, RAILROAD PAVEMENT MARKINGS. EACH INCLUDE A 36"×72" (RR) & 78"×240" (X). TO BE PLACED AT ORIGINAL LOCATIONS AND LENGTHS. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS.

STANDARD PLATES

THE FOLLOWING STANDARD PLATES AS APPROVED BY F.H.W.A. SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
8000 K	TEMPORARY CHANNELIZERS
9000 E	APPROACHES AND ENTRANCES

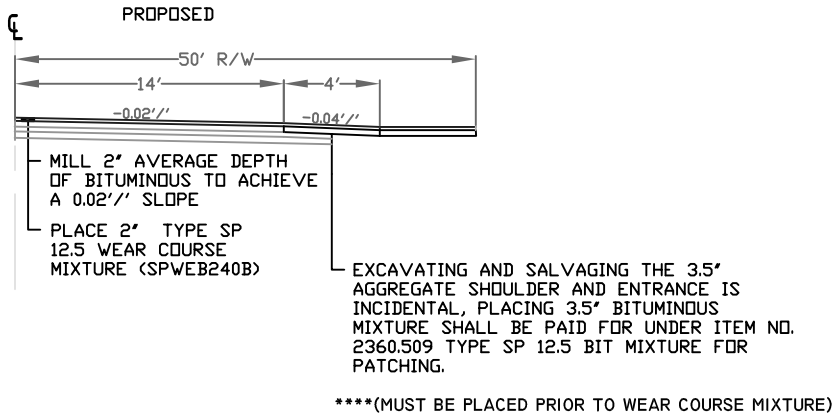


PROPOSED DESIGN SECTIONS

4' PAVED SHOULDER STA. 146+35 LT TO STA. 150+11 LT

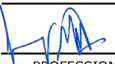
COMMERCIAL ENTRANCE STA. 147+03 LT

FARM ENTRANCE STA. 149+43 LT

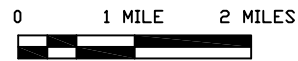
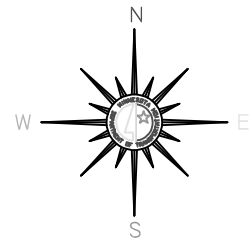


ESTIMATED QUANTITY & TYPICAL SECTION SHEET

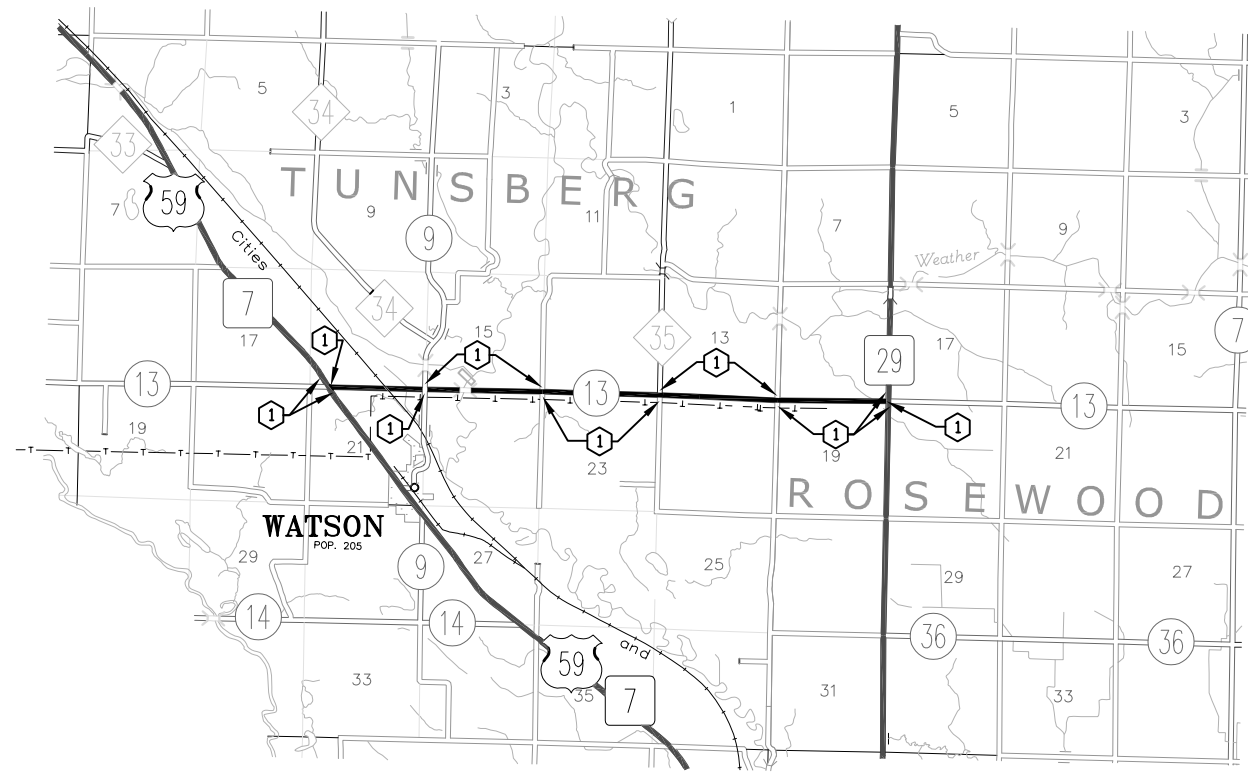
Minn. Proj. No. \_\_\_\_\_ County Proj. No. \_\_\_\_\_  
State Proj. No. \_\_\_\_\_ S.A.P. 012-613-031

CERTIFIED BY  11/12/2024 LICENSE NO. 58376

Sheet 2 of 3 Sheets

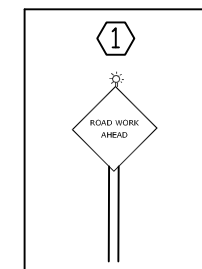


INDEX  
MAP 1




#### TRAFFIC CONTROL NOTES:

- 1.) ALL TRAFFIC CONTROL SIGNING AND DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."
- 2.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADVANCE WARNING AND CONSTRUCTION ZONE SIGNING. MINIMUM ADVANCE WARNING SIGNING REQUIRED FOR THIS PROJECT ARE "ROAD WORK AHEAD" AT THE TERMINI AND ALL CROSS ROADS.
- 3.) CONSTRUCTION SIGNS AND BARRICADES THAT ARE PERIODICALLY REQUIRED TO BE MOVED DUE TO CONSTRUCTION OPERATIONS, SHALL BE PLACED AT LOCATIONS WHERE THEY GIVE SUFFICIENT WARNING TO MOTORISTS AND PEDESTRIANS OF THE CONDITIONS AHEAD AND SHALL BE RELOCATED AS NEEDED TO KEEP SIGNING CURRENT AT REQUIRED LOCATIONS.
- 4.) THE CONTRACTOR SHALL PROTECT AND RESTRICT ALL PEDESTRIANS FROM WORK AREAS.
- 5.) THE EXACT LOCATION OF ALL TRAFFIC CONTROL DEVICES SHALL BE DETERMINED AT THE SITE.
- 6.) ALL WARNING SIGNS SHALL HAVE A TYPE A FLASHER IN ALL LOCATIONS.
- 7.) SIGNING MUST BE APPROVED BY THE ENGINEER 24 HOURS BEFORE ANY WORK IS STARTED.
- 8.) SIGNS SHALL BE COVERED OR REMOVED WHEN THERE IS NO ACTIVE CONSTRUCTION ACTIVITY OR AS DIRECTED BY THE ENGINEER.



ALL SIGNS ARE SUPPLIED BY CONTRACTOR.

TRAFFIC CONTROL SHEET

CERTIFIED BY  11/12/2024 LICENSE NO. 58376

Minn. Proj. No. \_\_\_\_\_  
State Proj No. \_\_\_\_\_

County Proj. No. \_\_\_\_\_  
S.A.P. 012-613-031

Chippewa County, Minnesota. Sheet 3 of 3 Sheets



HIGHWAY

MINNESOTA DEPARTMENT OF TRANSPORTATION  
CHIPPEWA COUNTY

CONSTRUCTION PLAN FOR: MILL, OVERLAY & AGGREGATE SHOULDERING

LOCATED ON C.S.A.H. 18 BETWEEN C.S.A.H. 4 AND C.S.A.H. 3 1 MILE SOUTH OF MAYNARD(Geographic Description)  
FROM 60' W OF THE S 1/4 COR. SEC. 32 T117N R38W TO 114' E OF THE SW COR. SEC. 34 T117N R38W (Legal Description)

STATE AID PROJECT NO. 012-618-003  
GROSS LENGTH 8,139' 1.541 MILES  
BRIDGES-LENGTH

EXCEPTIONS-LENGTH  
NET LENGTH 8,139' 1.541 MILES

LEGEND

PLAN SYMBOLS

- BENCHMARK
- SECTION CORNER
- FENCE POST
- ELECTRIC PEDISTAL
- TELEPHONE PEDISTAL
- LIGHT POLE
- POWER POLE
- MAIL BOX
- FIRE HYDRANT
- WATER VALVE
- FIBER OPTIC MARKER
- WETLAND SYMBOL
- SANITARY MANHOLE
- STORM MANHOLE
- LIFT STATION
- DECIDUOUS TREE
- CONIFEROUS TREE
- CATCH BASIN
- DROP INLET
- CULVERT
- RIGHT-OF-WAY LINE
- RAILROAD TRACKS
- SILT FENCE
- SILT FENCE TYPE MS
- DRAIN TILE
- PERF TILE LINE
- GUARDRAIL
- BIO ROLL
- FENCE WOOD
- FENCE CHAIN LINK
- FENCE BARB WIRE
- SLOPE EASEMENT
- TEMPORARY EASEMENT

UTILITIES SYMBOLS

- OVERHEAD POWER LINE
- OVERHEAD TELEPHONE LINE
- OVERHEAD CABLE TV
- WATER MAIN SERVICE
- WATER SERVICE LINE
- BURIED TELEPHONE CABLE
- BURIED POWER LINE
- BURIED PETROLEUM PIPELINE
- BURIED GAS PIPELINE
- BURIED FIBER OPTIC

DRAINAGE

- INTERMITTENT STREAM
- NARROW STREAM
- WIDE STREAMS
- MARSH OR SWAMP LAND
- DRAINAGE DITCH
- LAKE OR POND

STRUCTURES

- HIGHWAY BRIDGE

PLAN 0 100' 200'

INDEX 1 MILE 0' 1 MILE  
MAP 1 1 MILE = 5280'

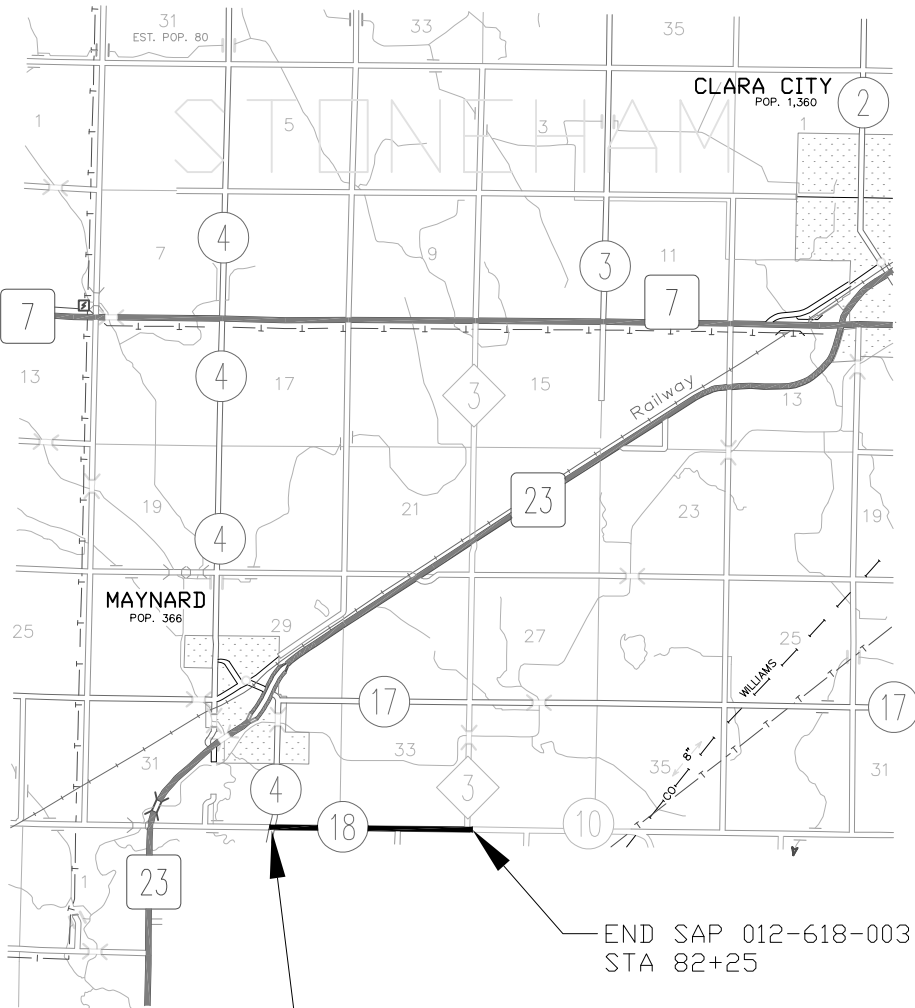
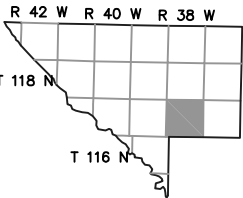
ROAD SYSTEM DESIGNATIONS

- INTERSTATE TRUNK HIGHWAY
- U.S. NUMBERED TRUNK HIGHWAY
- STATE NUMBERED TRUNK HIGHWAY
- COUNTY STATE AID HIGHWAY
- COUNTY ROAD

Outline Map of Minnesota showing location of the County within the State.



Outline Map of the County.  
Area of this County 588 Sq. Miles  
Land Area 581 Sq. Miles  
2020 Total County Population 12,598



INDEX MAP 1

MINN. PROJ. NO.

MINN. PROJ. NO.

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MMUTCD, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX

SHEET NO. 1 TITLE SHEET  
SHEET NO. 2 ESTIMATED QUANTITIES/TYPICAL SECTION SHEET  
SHEET NO. 3 TRAFFIC CONTROL SHEET

THIS PLAN CONTAINS 3 SHEETS

Graded Under S.A.P. 012-618-01 (1980)

DESIGN DESIGNATION

§N18<sub>20</sub>  
R VALUE  
ADT (2025) 90  
PROJ. ADT (2045) 99  
PROJ. HCA DT (2045)  
SOIL FACTOR 75  
10 TON DESIGN  
SHOULDER WIDTH 4'  
BASED ON STOPPING SIGHT DISTANCE  
HEIGHT OF EYE 3.5 HEIGHT OF OBJECT 2.0  
POSTED SPEED 55 MPH

DESIGN SPEED NOT ACHIEVED AT:

STA. TO STA. MPH  
STA. TO STA. MPH  
STA. TO STA. MPH

SIGNATURE: TYPED OR PRINTED NAME: JEREMY L GILB

DESIGN ENGINEER: I HEREBY CERTIFY THAT THIS PLAN 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.

DATE: 11/12/2024 LICENSE NUMBER: 58376

APPROVED: COUNTY ENGINEER DATE: 11/12/2024

Todd Broadwell Digitally signed by Todd Broadwell  
Date: 2024.11.13 12:26:25 -06'00'

DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE-AID RULES/POLICY

Todd Broadwell Digitally signed by Todd Broadwell  
Date: 2024.11.13 12:26:55 -06'00'

STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C1/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES." THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AND DEPTHS RELEVANT TO CONSTRUCTION. EXCAVATION TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCIDENTAL. THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNERS AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. GOPHER STATE ONE CALL 1-800-252-1166.

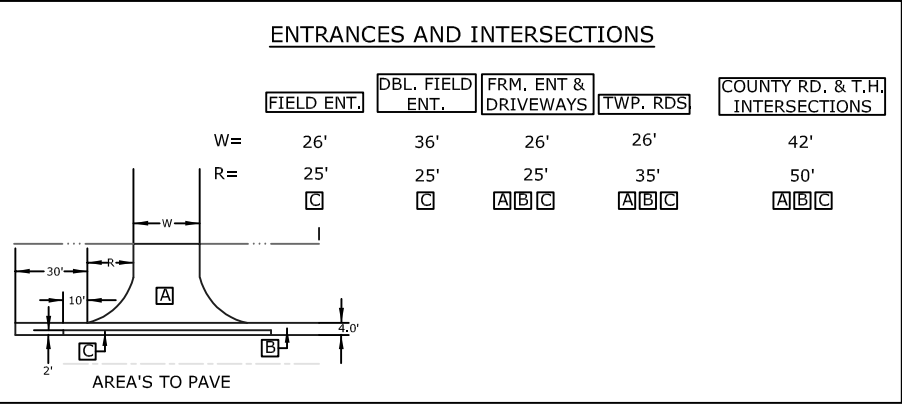
STATE PROJECT NO.

STATE AID PROJ. NO. 012-618-003 SHEET NO. 1 OF 3 SHEETS

ESTIMATED QUANTITIES			
SPECIFICATION No.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
(1) 2021.501	MOBILIZATION	LUMP SUM	1
(2) 2221.609	SHOULDER BASE AGGREGATE CLASS 5 MOD	TON	760
(3) 2232.504	MILL BITUMINOUS SURFACE (1.75")	SQ. YD.	23,269
(4) 2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (2,B)	TON	2,684
(5) 2360.509	TYPE SP 12.5 BITUMINOUS MIXTURE FOR PATCHING	TON	100
(6) 2563.601	TRAFFIC CONTROL	LUMP SUM	1
(7) 2580.501	INTERIM PAVEMENT MARKING	LUMP SUM	1
(8) (9) 2582.603	4" BROKEN LINE PAINT	LIN. FT.	1,630
(9) 2582.603	4" SOLID LINE PAINT	LIN. FT.	17,097

CONSTRUCTION NOTES:

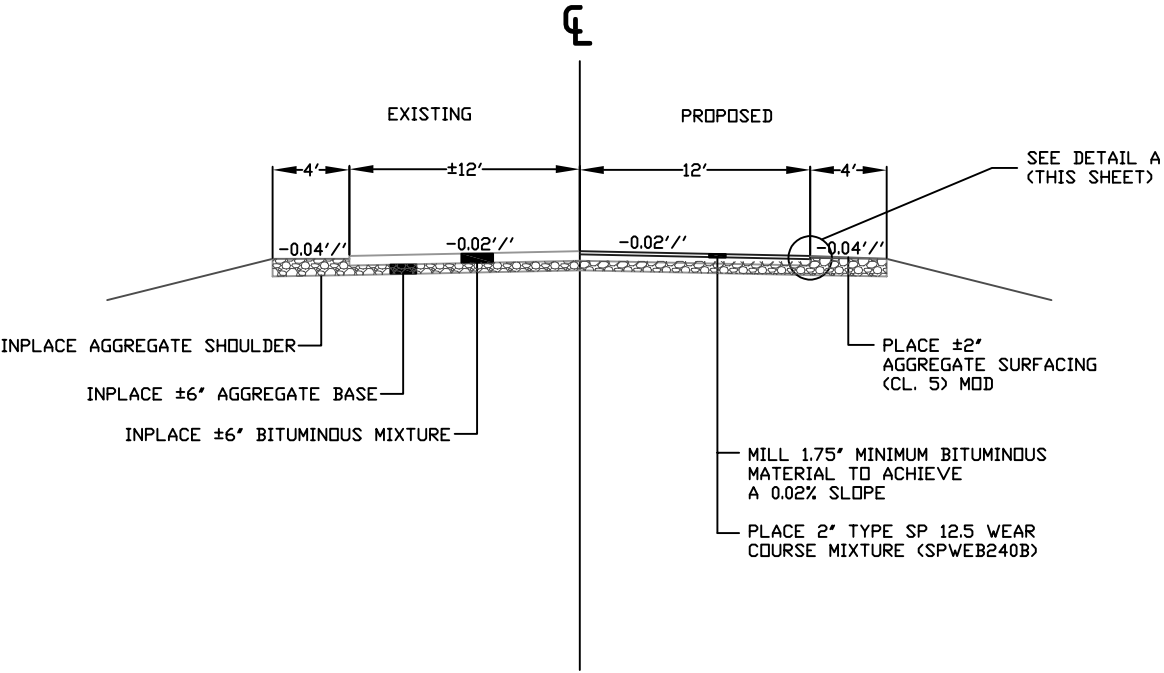
- BASIS FOR PLAN QUANTITIES WEAR & BASE COURSE MIXTURE: 115 LBS. PER SQ. YD./IN.
- AGGREGATE BASE: 105 LBS. PER SQ. YD./IN.



- (1) SEE SPECIAL PROVISIONS. SEE THIS SHEET FOR PROPOSED DESIGN SECTION AND ALSO TO BE USED AS DIRECTED BY THE ENGINEER.
- (2) MILLINGS TO BECOME PROPERTY OF THE CONTRACTOR. INCLUDES 1,384 SQ. YD. FOR ±4' PAVED SHOULDERS, BUMPOUTS, COUNTY ROAD RADIUS, TOWNSHIP ROAD RADIUS AND FARM ENTRANCES.
- (3) BITUMINOUS TACK MATERIAL INCLUDED IN BID PRICE FOR BITUMINOUS MIXTURE (APPLICATION SEE TABLE 2357.3-1) INCLUDES 162 TON FOR BUMPOUTS, SHOULDER PAVING, ENTRANCES, AND INTERSECTIONS.
- (4) BITUMINOUS TACK MATERIAL INCLUDED IN BID PRICE FOR BITUMINOUS MIXTURE (APPLICATION SEE TABLE 2357.3-1) TO BE USED AS DIRECTED BY THE ENGINEER.
- (5) CONTRACTOR WILL FURNISH AND MAINTAIN ALL ADVANCE WARNING AND CONSTRUCTION ZONE SIGNS. SEE SPECIAL PROVISIONS.
- (6) INTERIM PAVEMENT MARKINGS SHALL BE PLACED ON MILLED AND PAVED LIFTS 4' WIDE × 4' LONG WITH MARKING TAPE AT 50' INTERVALS.
- (7) YELLOW PAINT. INCLUDES GLASS BEADS. PAYMENT IS FOR ACTUAL STRIPE PLACED, BASED ON THE 50 FOOT CYCLE, 40 FOOT SKIP AND 10 FOOT STRIPE. SEE SPECIAL PROVISIONS
- (8) YELLOW, CENTERLINE. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS. FOR ESTIMATED QUANTITIES: 4' YELLOW SOLID= 997 LIN. FT.
- (9) WHITE, EDGE LINES. INCLUDES GLASS BEADS. SEE SPECIAL PROVISIONS. LOCATION: (0+86 TO 82+25 LT) AND (0+86 TO 82+25 RT) AND TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS, AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY AN AGENCY PLACED YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE MAINLINE RADIUS. FOR ESTIMATED QUANTITIES: 4' WHITE EDGE LINE= 16,100 LIN. FT.

PROPOSED DESIGN SECTIONS

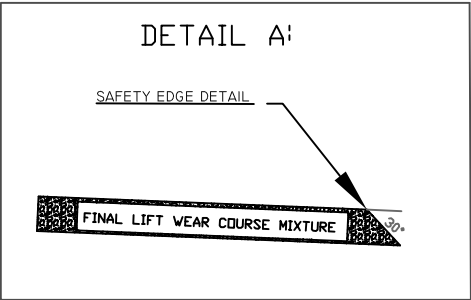
STA. 0+86 - 82+25



STANDARD PLATES

THE FOLLOWING STANDARD PLATES AS APPROVED BY F.H.W.A. SHALL APPLY ON THIS PROJECT.

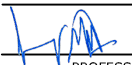
PLATE NO.	DESCRIPTION
8000 K	TEMPORARY CHANNELIZERS
9000 E	APPROACHES AND ENTRANCES



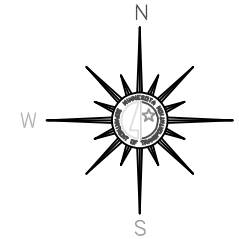
ESTIMATED QUANTITY/TYPICAL SECTION SHEET

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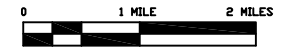
State Proj. No. \_\_\_\_\_ S.A.P. 012-618-003

CERTIFIED BY  11/12/2024 LICENSE NO. 58376 Sheet 2 of 3 Sheets

PROFESSIONAL ENGINEER

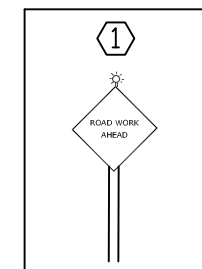
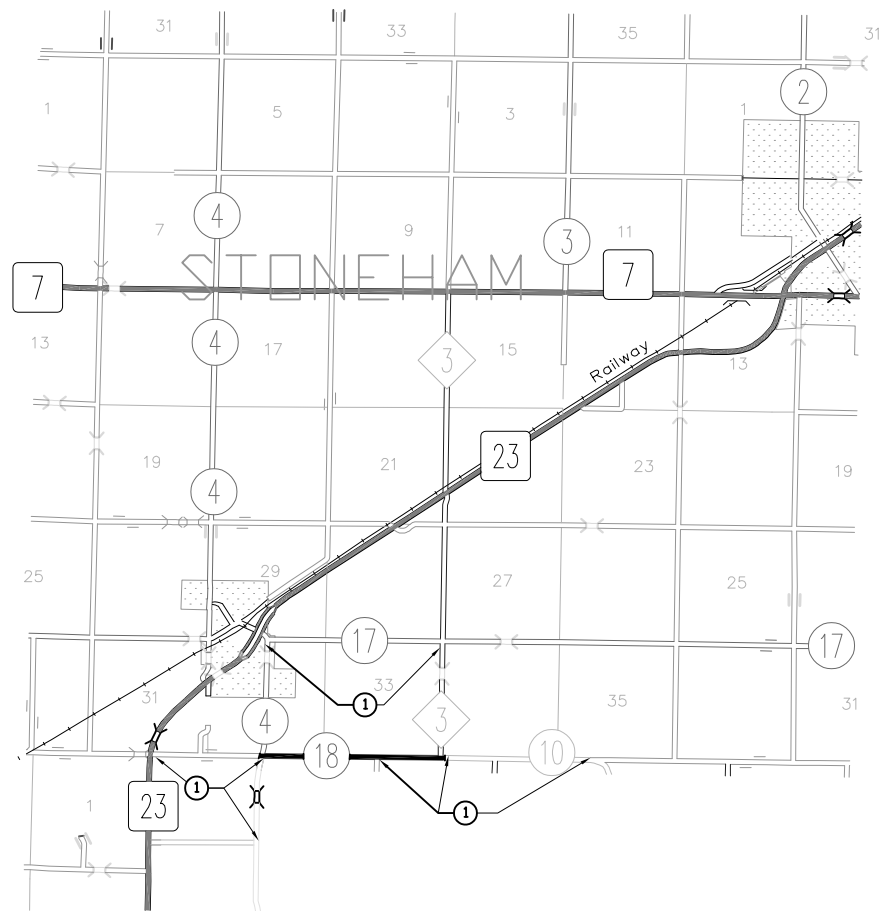


INDEX  
MAP 1



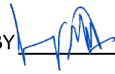
#### TRAFFIC CONTROL NOTES:

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TRAFFIC CONTROL SHEET

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State Proj No. \_\_\_\_\_

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S.A.P. 012-618-003

Chippewa County, Minnesota.

Sheet 3 of 3 Sheets