## 2017 Projects - Projects with a Stormwater Pollution Prevention Plan

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<td>CSAH 115/116 &amp; TH 55 Intersection</td>
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LOCATION OF SWPPP REQUIREMENTS

THE REQUIRED SWPPP REQUIREMENTS ARE LOCATED IN MANY PLACES WITHIN THE PUBLICATION. THE CONTRACTOR SHALL NOT CORRECT THE REQUIREMENTS LISTED IN THIS SHEET. THE CONTRACTOR SHALL BE AWARE THAT THERE ARE RIVERS AND EXISTING STORMWATER FACILITIES OVER THE PROJECT BOUNDARY. THE FOLLOWING WATER BODIES HAVE BEEN LISTED BY THE DMN AS BEING INJECTED BY INVASIVE SPECIES MINNESOTA RIVER

LOCATION OF SWPPP REQUIREMENTS

WATERBODY

RIVERS

MINNESOTA RIVER

SHEET 1 OF 3

DESIGN BY: LFO

C.A.S.H. 61 / HENNEPIN COUNTY PROJECT 0904
S.A.P. 027-661-048/181-020-031 & S.A.P. 050-661-003/194-020-012

STORMWATER POLLUTION PREVENTION PLAN

255

MEMO

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.

24333 02/01/2017

G. ROD RUE

HENNEPIN COUNTY PROJECT NO. 0904

PUBLIC WORKS DIRECTOR/COUNTY ENGINEER

PAUL OEHME

CARVER COUNTY TRANSPORTATION DEPARTMENT

ROD RUE

EROSION CONTROL SUPERVISOR

LYNDON ROBJENT

PUBLIC WORKS DIRECTOR/COUNTY ENGINEER

HENNEPIN COUNTY CONSTRUCTION MANAGER

CITY OF CHANHASSEN - HENNEPIN COUNTY TRANSPORTATION DEPARTMENT

R. ROBOJENT

PUBLIC WORKS DIRECTOR/COUNTY ENGINEER

MINNESOTA RIVER

RILEY CREEK

HUGH ZENG

PUBLIC WORKS DIRECTOR/COUNTY ENGINEER

REQUIREMENTS FOR THE CONTRACTOR TO IMPLEMENT THE REQUIREMENTS LISTED IN THIS SHEET.

PROJECT DESCRIPTION/LOCATION

THE REQUIRED SWPPP REQUIREMENTS ARE LOCATED IN MANY PLACES WITHIN THE PROJECT BOUNDARY. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS LISTED IN THIS SHEET.

LOCATION

THE REQUIRED SWPPP REQUIREMENTS ARE LOCATED IN MANY PLACES WITHIN THE PROJECT BOUNDARY.

PROJECT PERSONNEL AND TRAINING

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STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED)

MAINTENANCE.

TRACKING IS DISCOVERED. REGULAR STREET SWEEPING IS NOT AN ACCEPTABLE ALTERNATIVE TO PROPER CONSTRUCTION EXIT INSTALLATION AND SITE. PROVIDE CONSTRUCTION EXITS OF SUFFICIENT SIZE TO PREVENT TRACK OUT. MAINTAIN CONSTRUCTION EXITS WHEN EVIDENCE OF 15. PLACE CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES BOTH ON AND OFF THE PROJECT AFTER 24-HRS OF DISCOVERY.

CONDITION, INEFFECTIVE, OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES. NON-FUNCTIONAL BMPS MUST BE REPLACED DEVICE WITH A SUITABLE ALTERNATIVE IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR DURING MILLING OR PAVING OPERATIONS. INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER TO SHORE AS POSSIBLE. PLACE PERIMETER CONTROL BMP ON LAND IMMEDIATELY AFTER THE IN WATER WORK IS COMPLETED.

SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100 FOOT INTERVALS.

LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW- VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED IS STABILIZED.

ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES BEFORE ANY UP 9. ANY POINT CAN BE COMPA S A. SINGLE YEAR CONSTRUCTION BETWEEN MAY 1 - AUGUST 1, SEED WITH SEED MIXTURE 21-111
B. SINGLE YEAR CONSTRUCTION BETWEEN AUGUST 1 AND OCTOBER 31, SEED WITH SEED MIXTURE 21-112 C. MULTI YEAR CONSTRUCTION 22-111

1. NO ACTIVITY AFFECTING THE BED OR BANKS OF RILEY CREEK MAY BE CONDUCTED BETWEEN MARCH 15 AND JUNE 15
2. BANKS MUST BE STABILIZED IMMEDIATELY AFTER COMPLETION OF PERMITTED WORK AND REVEGETATED AS SOON AS GROWING
3. IT IS THE DESIGNER’S INTENT THAT THE CONTRACTOR BUILD PONDS AND PLACE EROSION CONTROL BMPS BEFORE PUTTING THEM INTO ACTIVE SERVICE TO THE MAXIMUM EXTENT PRACTICABLE.

3. PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OF CONCRETE, STUCCO, PAINT, FORM DEGREASING IS NOT ALLOWED ON THE SITE.

2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER’S ACCEPTANCE FOR CONCRETE MANAGEMENT, CONCRETE SLURRY MANAGEMENT, CONCRETE WASTES GENERATED FROM FORMS, OR CONCRETE WASTES GENERATED FROM FIREWOOD BURNING ON THE SITE. PLACE ALL FORMS, CONCRETE CUTTINGS, OR CONCRETE MILLINGS ON THE SITE FOR DISPOSAL.

1. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE SNOW MULCHED, SEASONED, AND REMOVED WITHIN THE TIME FRAMES IN THE NOTICES PERMIT.

6. KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MATERIALS AND TO CAPTURE SEDIMENT ON SITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY

5. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE SNOW MULCHED, SEASONED, AND REMOVED WITHIN THE TIME FRAMES IN THE NOTICES PERMIT.

13. CREATE AND FOLLOW A WRITTEN DISPOSAL PLAN FOR ALL WASTE MATERIALS. INCLUDE IN THE PLAN HOW THE MATERIAL WILL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE. SUBMIT PLAN TO THE ENGINEER.

19. REMOVE SEDIMENT FROM STORMWATER SYSTEM AT THE END OF PROJECT.

17. PROVIDE SCOUR PROTECTION AT ANY OUTFALL OF DEWATERING ACTIVITIES.

16. DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE. IN THE EVENT THAT IT IS NOT FEASIBLE TO DISCHARGE TO TEMPORARY SEDIMENT BASINS, OR WHEN TEMPORARY SEDIMENT BASINS DO NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS, CLEAR OUT ALL PERMANENT STORMWATER BASINS REGULARLY TO AVOID OVERFLOW OR BACK-UP OF TURBID WATER. ANY SEDIMENT STABILIZATION BMPS OR SEPARATE TEMPORARY UNIT OR TEMPORARY HEAT PROTECTION DEVICE SHOULDN'T BE USED AS THE PRIMARY METHODS OF SEDIMENT REMOVAL FROM THE WASHOUT OPERATIONS OR CONTAINMENT AREA.

15. STORE ALL BUILDING MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS, NITROGEN, AND NITROGEN-BASED PRODUCTS, NOT TO DISCHARGE OR DISPOSAL OF SUCH CONTAMINATES OR CHEMICAL LEAKED WATER IS NOT ALLOWED.

14. STORE, COLLECT AND DISPOSE OF ALL SOLID WASTE.

13. USE WETTING AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACE OF RANIER DRAINAGE, GROUNDS, CUTTING, MULCH, AND OTHER TURF DISSOLUTION MATERIALS OR TOXIC WASTE TO THE DESIGNATED STORAGE AREA AT THE END OF THE BUSINESS DAY UNLESS INFEASIBLE. STORE ALL
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED)

1. DO NOT STOCKPILE MATERIALS OR PARK EQUIPMENT OR VEHICLES IN A CONSTRUCTED FILTRATION AREA, UNTIL DURING CONSTRUCTION.

2. THE CONTRACTOR MAY NOT DRIVE ANY EQUIPMENT ON FINISHED FILTRATION AREAS OR ADJACENT SIDE SLOPES. RESTORE DISTURBED FILTRATION AREAS AND ADJACENT SIDE SLOPES TO PRE DISTURBANCE CONDITIONS WITHIN 24 HOURS. ANY RUTS OR DAMAGED TURF THAT COULD CREATE SEDIMENT DISCHARGE TO FILTRATION AREAS MUST BE REPAIRED WITHIN 24 HOURS.

3. THE FOLLOWING TYPES OF WATERS HAVE WORK IN WATER EXCLUSIONS. NO IN-WATER WORK IS ALLOWED IN THE FOLLOWING PUBLIC WATERS AS SHOWN ON THE PLANS AND/OR OTHER STORMWATER PERMIT RULES FOR CONSTRUCTION ACTIVITIES (MNR100001), PROJECT SPECIAL PROVISIONS, PROJECT SWPPP, PROJECT SWPPP NOTES, AND THE BMPS SHOWN IN THE PLANS. THE CONTRACTOR IS REQUIRED TO CONSIDER, DESIGN FOR, AND MAINTAIN STORMWATER DRAINAGE IN ALL ASPECTS FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE AS SHOWN IN THE SHEETS OR OTHER ALTERNATIVES TO REQUIREMENTS AS SPECIFIED IN THE PROJECT SPECIFIC PROVISIONS AND THE NOTICES PERMIT FOR TEMPORARY DRAINAGE DURING CONSTRUCTION.

WATER RESOURCES NOTES

SHEET 3 OF 3

STORMWATER POLLUTION PREVENTION PLAN

ENGINEER: HUGH ZENG, LICENSED PROFESSIONAL ENGINEER

DESIGN BY: LFO

C.S.A.H. 61 / HENNEPIN COUNTY PROJECT 0904
S.A.P. 027-661-048/181-020-031 & S.A.P. 050-661-003/194-020-012

NORTH CAROLINA (DNR)
MARCH 15 - JULY 1

WATERBODY
NAME
NORMAL ELEV.
FT
LOW ELEV.
FT
HIGH ELEV.
FT
FUNCTION
EXCLUSION DATES
POND NAME
LOCATION (1)
NORMAL WATER LEVEL
1. DO NOT STOCKPILE MATERIALS OR PARK EQUIPMENT OR VEHICLES IN A CONSTRUCTED POND. 2. THE CONTRACTOR MAY NOT DRIVE ANY EQUIPMENT ON FINISHED POND BOTTOMS OR POND CORNERS. IF DISTURBED, POND BOTTOM AND POND CORNERS MUST BE RESTORED TO PRE-EXISTING CONDITIONS WITHIN 24 HOURS. ANY RUTS OR DAMAGED TURF THAT COULD CREATE SEDIMENT DISCHARGE TO POND BOTTOMS MUST BE REPAIRED WITHIN 24 HOURS.

STAGING AND TEMPORARY DRAINAGE

THERE ARE THREE ANTICIPATED CONSTRUCTION STAGES, WITH SOME AREAS OF THE PROJECT DISTURBED MULTIPLE TIMES THROUGH THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY DRAINAGE CONSTRUCTION FOR EACH CONSTRUCTION STAGE TO MEET THE UGPA GENERAL STORMWATER PERMIT RULES FOR CONSTRUCTION ACTIVITIES (MNR100001), PROJECT SPECIAL PROVISIONS, PROJECT SWPPP, PROJECT SWPPP NOTES, AND THE SHEETS SHOWN IN THE PLANS. THE CONTRACTOR IS REQUIRED TO CONSIDER, DESIGN FOR, AND MAINTAIN STORMWATER DRAINAGE IN ALL ASPECTS FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE AS SHOWN IN THE SHEETS OR OTHER ALTERNATIVES TO MEET REQUIREMENTS AS SPECIFIED IN THE PROJECT SPECIFIC PROVISIONS AND THE NOTICES PERMIT FOR TEMPORARY DRAINAGE DURING CONSTRUCTION.

MODELING/TEMPORARY DRAINAGE

THE THREE STAGES ARE:

STAGE 1: ALL OFFICIAL WORK IS COMPLETED AND ALL MATERIALS ARE RECLAIMED, EXCEPT FOR READY MIX FOR THE CONCRETE WORK

STAGE 2: NECESSARY WORK TO COMPLETE THE CONSTRUCTION OF SECTIONS 1 AND 2

STAGE 3: NECESSARY WORK TO COMPLETE THE CONSTRUCTION OF SECTIONS 1 AND 2

THE CONTRACTOR SHALL CONSTRUCT TEMPORARY DRAINAGE CONSTRUCTION TO ENSURE THAT EXISTING UPLAND DRAINAGE IS PERPETUATED. THE DESIGN COMPUTATIONS ARE ON FILE IN THE PROJECT OFFICE. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE CONSTRUCTION TO ENSURE THAT EXISTING UPLAND DRAINAGE IS PERPETUATED. THE DESIGN COMPUTATIONS ARE ON FILE IN THE PROJECT OFFICE. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE CONSTRUCTION TO ENSURE THAT EXISTING UPLAND DRAINAGE IS PERPETUATED. THE DESIGN COMPUTATIONS ARE ON FILE IN THE PROJECT OFFICE.
CONTRACTOR SHALL INSTALL ALL DOWN GRADIENT BEST MANAGEMENT PRACTICES (BMPs) PRIOR TO STARTING ANY WORK ACTIVITIES. CONTRACTOR SHALL PLACE PERMANENT SITE RESTORATION BMPs IMMEDIATELY DURING WORK ACTIVITIES, UNLESS THE AREA IS TO BE REDISTRIBUTED. CONTRACTOR SHALL UTILIZE TEMPORARY BMPs, SUCH AS BLANKET, PLASTIC SHEETING, BAILING, FILTER, VOLATILE AMINOMETHYL PROTEIN DECOMPOSITION BY THE CONTRACTOR. THE CONTRACTOR SHALL AGREE TO ATC, ACCORDING TO ABOVE AVE AND BELOW GROUND UTILITIES.

IIIA. SWMP REQUIREMENTS:
A. BMPs: SEE PROJECT PLANS FOR THE LOCATIONS OF BMPs TO BE PLACED. CONTRACTOR WILL BE RESPONSIBLE FOR THE KEY CONTROL AND ANY REQUIRED STREET SHRUBBERY, ADJACENT ROADS AND STAGING AREAS. ALL BMPs SHALL BE REMOVED WITHIN 48 HOURS. ROCK CONSTRUCTION ENGINES OR EQUIVALENT SYSTEM MUST BE USED TO MINIMIZE TRACKING FROM PROJECT. REFER TO NIDSO STANDARD DETAILS FOR DETAILS.

IIII. ESTIMATED QUANTITIES TABLED FOR BMPs: SEE ESTIMATED QUANTITIES.

IIII. TEMPORARY SEDIMENT BASINS: CONTRACTOR SHALL PERFORM GRADES SUCH THAT DISCHARGE LOCATIONS RECEIVE LESS THAN 5 ACRES OF DRAINAGE AREA.

IIII. PERMANENT SEDIMENT BASIN: CONTRACTOR SHALL PERFORM GRADES SUCH THAT DISCHARGE LOCATIONS RECEIVE LESS THAN 5 ACRES OF DRAINAGE AREA.

IIII. RECORDS RETENTION: CONTRACTOR SHALL COMPLETE PROJECT PLANS AND SPECIFICATIONS, SWMP AMENDMENTS AND INSPECTION FORUMS INTO ONE SWMP REQUIREMENT THAT SO ONE COMPLETE COPY OF THE REQUIREMENTS FOR SITE INSPECTION IS TO BE MAINTAINED. CONTRACTOR SHALL PROVIDE HENNEPIN COUNTY TRANSPORTATION DEPARTMENT ONE COPY OF THE FINAL COMPILED SWMP. HENNEPIN COUNTY INSPECTION DEPARTMENT WILL RETAIN THESE RECORDS FOR THREE YEARS AFTER PROJECT COMPLETION.

IIII. TESTING: SEE 111.A.2.

IV. CONSTRUCTION ACTIVITY REQUIREMENTS:
A. STORM WATER POLLUTION PREVENTION PLAN: THE SWMP AND BMPs IDENTIFIED WILL BE IMPLEMENTED, MAINTAINED, AND MAINTAINED IN AN APPROPRIATE AND FUNCTIONAL MANNER.

B. EROSION PREVENTION PRACTICES: SEE PERMIT FOR SPECIFIC REQUIREMENTS AND TIME FRAMES.

C. SEDIMENT CONTROL PRACTICES: SEE PERMIT FOR SPECIFIC REQUIREMENTS AND TIME FRAMES.

D. Dewatering and Basin Draining: If dewatering is required for any work, the CONTRACTOR SHALL PREPARE A Dewatering Plan and BMPs FOR ANY DRAINAGE AREAS PRIOR TO STARTING ANY ACTIVITY. DISCHARGED WATER SHALL BE TREATED PRIOR TO ENTERING A SURFACE WATER OR LEAVING THE SITE. CONTRACTOR SHALL PROVIDE HARD CUE PERMIT FROM THE MINNOD FOR DRAINING EXCEEDING 10,000 GALLONS PER DAY OR A TOTAL OF EXCEEDING 30,000 GALLONS. DRAINING IS EXPECTED FOR UNDERGROUND UTILITY INSTALLATION.

E. INSPECTIONS AND MAINTENANCE: THE CONSTRUCTION SITE WILL BE OBERVSED EVERY 7 DAYS. CONTRACTOR SHALL PERFORM PERIODIC INSPECTION FOR DRAINAGE TRENCHES AFTER A RAINFALL EVERY GREATEST THAN 0.5 INCHES BY THE CONTRACTOR. THE CONTRACTOR IS ENCOURAGED TO INVITE THE OWNER TO THESE INSPECTIONS.

A SUMMARY MAINTENANCE/CONSTRUCTION OBSERVATION REPORT WILL BE PREPARED AFTER EACH SITE VISIT/OBSERVATION AND SHALL BE INCLUDED IN THE PROJECT SWMP BY THE CONTRACTOR.

TEMPORARY AND PERMANENT SEWING WILL BE OBSERVED FOR GROWTH AND WASHOUTS. BMPs WILL BE CLEANED/MAINTAINED PER PERMITS. SEE SECTION H.E. OF THE PERMITS PERMIT FOR ADDITIONAL INSPECTION REQUIREMENTS.

F. POLLUTION PREVENTION MEASURES: THE DISPOSAL AND/OR STORAGE OF HAZARDOUS WASTE AND MATERIALS WILL COMPLY WITH THE MNPD REGULATIONS. ALL CONCRETE MUST BE CONTAINED IN A LEAKPROOF CONTAINMENT FACILITY OR IMPREGNATED LINER AND DISPOSED OF IN A MANNER CONSISTENT WITH SECTION 46.14 OF THE PERMITS AND ACCEPTED BY THE OWNER.

APPENDIX A.

A. GENERAL REQUIREMENTS: ALL REQUIREMENTS IN THIS APPENDIX ARE ADDITION TO BMPs SPECIFIED. THE PROVISIONS IN THIS APPENDIX TAKE PRECEDENCE.

B. REQUIREMENTS FOR DRAINAGE TO SPECIAL WATER SOURCES.
C. ADDITIONAL SEPS FOR SPECIAL WATER SCANDA. APPENDIX A.C.1 AND A.C.2 ARE REQUIRED. EXPOSED SOILS SHALL BE STABILIZED WITHIN 7 DAYS OF EXPOSED SOIL. TEMPORARY SEDIMENT BASINS SHALL BE USED FOR DRAINAGE AREAS THAT ARE FIVE ACRES OR MORE OF DISTURBED SOIL.

D. REQUIREMENTS FOR DRAINAGE TO WETLANDS: PROJECTS DOES NOT HAVE ANY ANTICIPATED DISCHARGES WITH POTENTIAL FOR SIGNIFICANT ADVERSE IMPACTS TO A WETLAND. WETLAND IMPACTS HAVE BEEN ADDRESSED AND PERMITTED THROUGH APPROPRIATE AGENCIES.

E. DISCHARGES REQUIRING ENVIRONMENTAL REVIEW: N/A.

F. DISCHARGES AFFECTING ENDANGERED OR THREATENED SPECIES: N/A.

G. DISCHARGES AFFECTING HISTORIC PLACES FOR ARCHAEOLOGICAL SITES: N/A.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NOTES
CSAH 115/CO RD 116 - HENNEPIN COUNTY PROJECT 0918
SP 2722-89 (THS), APA 027-569-005, APA 027-715-004, APA 250-118-001, APA 250-020-001

I HEREBY CERTIFY THAT THIS SHEET WERE 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.

I hereby certify that this sheet 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.

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SWPPP INTRODUCTION (PART III.A)

HENNEPIN COUNTY HAS DEVELOPED THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TO COMPLY WITH THE REQUIREMENTS OF THE MPRA.

The SWPPP describes the temporary and permanent erosion prevention and sediment control plan and the stormwater management plan for this project. The information in parentheses after each paragraph heading refers to the section of the general permit for the SWPPP.

PROJECT SUMMARY (PART III.A)

This restoration project is located in Hennepin County on CSX 24 from Olive Lane to Joens Lane. The project will include grading, bituminous surfacing, curbs and gutter, storm water drainage, watermain, porous asphalt and curbs and gutter enhancement to treat stormwater runoff. This project will impact existing property and adjacent right-of-way areas.

PROJECT DESCRIPTION (PART III.A)

HENNEPIN COUNTY TRANSPORTATION DEPARTMENT, IN COOPERATION WITH THE CITY OF PLYMOUTH, IS USING STATE AID FOR ULTIMATE FUNDING AND MUNICIPAL FUNDS FOR ROADWAY RECONSTRUCTION. THIS PROJECT IS EXPANDING FROM TWO LANES WITH A SHOULDER TO SIX LANES WITH CURB AND GUTTER. THE PROJECT IS A FORBIDDEN TRAFFIC TO CONNECT THE TRAFFIC SYSTEM. THE PROJECT WILL INCLUDE MUNICIPAL RIGHT-OAKEY ACQUISITIONS BUT NO CONSERVATION EASEMENTS. THE PROJECT WILL CHANGE THE ROADWAY ALONG THE FOLLOWING: INTERSECTIONS, EXISTING EASEMENTS, AND OPEN SPACES IN CONSTRUCTION.

CONSTRUCTION AND OPERATION METHODS

CONSTRUCTION METHODS ARE NOT INCLUDED IN THE PROJECT.

SWPPP IMPLEMENTATION (PART III.A)

The contractor is responsible for complying with all aspects of the general permit at all times per Minnesota standard specifications.

Erosion Control (E.C.) SUPPLIERS

DURING THE PRE-CONSTRUCTION CONSTRUCTION PERIOD, A PERSON CERTIFIED PER MINNESOTA REQUIREMENTS AND ENVIRONMENTAL CONCERNS WILL BE NOTIFIED TO THE CONTRACTOR AS THE E.C. SUPPLIER.

The contractors must provide proof of certification at the time of construction or the permit will be revoked. ALL E.C. CONTRACTORS MUST NOTIFY THE COUNTY OF THE PROTECTION MEASURES IN PLACE PRIOR TO CONSTRUCTION.

ANDREW C. McGOVERN, PROFESSIONAL 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.

M. WOLFF

STORMWATER POLLUTION PREVENTION PLAN

C.S.A.H. 24 / HENNEPIN COUNTY PROJECT 961701 SHEET

SHEE 76

DESIGN BY: M. WOLFF

C.S.A.H. 24 / HENNEPIN COUNTY PROJECT 961701

DATE: 03/17/2017

CARDBOARD BOX

M. WOLFF

LAST REVISION: 03/17/2017

MANUFACTURING A QUALITY CONTROL PROGRAM SHALL CONSIST OF:

1. ENSURING ALL PERMIT REQUIREMENTS RELATED TO THE SWPPP ARE COMPLIED WITH.

2. PROVIDING A QUALITY CONTROL PROGRAM PERMIT.

3. INSURING THAT THE INSURER IS NO EFFECTIVE IN THE PREVENTION OF STORMWATER POLLUTION

4. PROVIDING THE INSURER WITH THE LICENSED PROFESSIONAL ENGINEER.

5. MAINTAINING THE NPS INSPECTION LOG.

6. PROVIDING THE INSURER WITH THE INSURER WITH THE LICENSED PROFESSIONAL ENGINEER.

7. ENSURING THAT THE INSURER IS NO EFFECTIVE IN THE PREVENTION OF STORMWATER POLLUTION

8. PROVIDING THE INSURER WITH THE LICENSED PROFESSIONAL ENGINEER.

LONG TERM OPERATION AND MAINTENANCE

HENNEPIN COUNTY OPERATIONS STAFF, WILL BE RESPONSIBLE FOR THE LONG-TERM OPERATIONS AND MAINTENANCE OF THE STORMWATER POLLUTION PREVENTION PLAN.

CHAIN OF RESPONSIBILITY (PART III.A.2)

AS CO-CONTACT, THE CONTRACTOR WILL PROVIDE AND ASSEMBLE AND SUPERVISION WHO WILL WORK WITH THE PROJECT ENGINEER TO DETERMINE THE GENERAL PERMIT, AND TO SUPERVISION, IN THE EVENT OF A DISASTER OR MAJOR EVENT, THE GENERAL PERMIT WILL BE NOTIFIED TO THE PROJECT ENGINEER.

MPC 24 HOUR EMERGENCY NOTIFICATIONS: 651-649-5451 / 800-422-0798

SWPPP TRAINING (PART III.A.3 & III.F)

The SWPPP DESIGNER IS CERTIFIED BY THE UNIVERSITY OF MINNESOTA’S EROSION AND STORMWATER MANAGEMENT EDUCATION PROGRAM.

ANDREW C. McGOVERN, PROFESSIONAL ENGINEER

THE PURPOSE OF THE PROJECT IS TO PROVIDE A CONSISTENT HIGH LEVEL ROADWAY WITH A CONTINUOUS LIFT TURN LANE BETWEEN CSX 101 AND 75 SG.

ANDREW C. McGOVERN, PROFESSIONAL ENGINEER

M. WOLFF

LICENSE NO. 03/17/2017
NORTHERN RECONSTRUCTION SEGMENT DUE TO DETERIORATING PAVEMENT SURFACING. THE PROJECT WILL ALSO ADD ASHARED-USE TRAIL ON THE SOUTH SIDE OF CSW TO CONNECT EXISTING TRAIL FACILITIES ON EITHER END.

THE PROJECT CREATES 0.64 ACRES OF NEW IMPERVIOUS AND HAS 2.37 ACRES OF FULL DEPTH RECONSTRUCTION. THE PROJECT ALSO INCLUDES 0.36 ACRES OF TRAIL CONSTRUCTED WITH PK DELTA ASPHALT PAVEMENT. OVERALL THE PROJECT WILL DISTURB 0.65 ACRES, WHICH INCLUDES PBVIOUS AND IMPERVIOUS SURFACES.

THE PROJECT WILL FOLLOW THE EXISTING HORIZONTAL ALIGNMENT. A MINOR CHANGE TO THE VERTICAL ALIGNMENT RESULTS IN A LOWERED CENTERLINE ELEVATION 0.32 FT THROUGH THE INTERSECTION AT 37TH AVE N/LAWRENCE LN. THE EXISTING SURFACE WATER WILL REMAIN THE SAME IN THE PROPOSED CONDITION. THE ENTIRE PROJECT FALLS WITHIN THE BASSET CREEK WATERSHED.

THE DISTINGUISHABLE PAIR OF CSW ON CurVE CURRENTLY HAS A RURAL DRAINAGE SYSTEM UTILIZING DITCHES AND CULVERTS. THE PROJECTED HOURNAL SECTION WILL BE URBAN SECTION WITH CATCH BASINS. THE PROJECT HAS LIMITED OPTIONS FOR RATE CONTROL DEVICES SLS HAS PROPOSED MULTIPLE RATE IMPROVEMENTS. THE ENTIRE FINAL SYSTEM WILL BE PHOBUS ASPHALT AND MULTIPLE JUNCTION SECTIONS WILL BE RICH ENSHED SOILS. THE IMPACTS FROM THE PROJECT ARE SMALL, EBML STRUCTURES WILL BE INSTALLED. THE CITY OF PLYMOUTH WILL MAINTAIN THE UNDESIGNED ASPHALT, ENSHED SOILS, AND EBML STRUCTURES.

THE PROJECT WAS DESIGNED USING ATLAS 6 FOR BASEMENT INTENSITY. LOW POINTS ARE DESIGNED USING A 25 YEAR EVENT AND NO TRUE SAGS ON THE PROJECT. THE PROJECT AREA IS PRIMARILY TYPE C AND D SOILS.

INTEGRATING THIS SWPPP INTO THE FINAL PLANS (PART III.A.5)


LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LOCATION</th>
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<tr>
<td>TEMPORARY EROSION CONTROL MEASURES</td>
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<tr>
<td>PERMANENT EROSION AND SWPPP CONTROL MEASURES</td>
<td>SHEETS: 79 - 81</td>
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<tr>
<td>DIRECTION OF RUNOFF</td>
<td>SHEETS: 79 - 102, 79 - 11</td>
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<td>FINAL STABILIZATION</td>
<td>SHEETS: 79 - 72</td>
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<td>SOILS AND CONSTRUCTION NOTES</td>
<td>SHEETS: 8</td>
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<tr>
<td>EROSION AND SWPPP CONTROL DETAIL</td>
<td>SHEETS: 37 - 44</td>
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</tbody>
</table>

ENVIRONMENTAL REVIEW MITIGATION MEASURES (PART III.A.6)

THERE ARE NO SWPPP MITIGATION MEASURES REQUIRED AS A RESULT OF AN ENVIRONMENTAL, ARCHEOLOGICAL, OR AGENCY REVIEW. ALL MITIGATION MEASURES HAVE BEEN ADDRESSED IN THIS PLAN SET OR THE SPECIAL PROVISIONS.

KARST AREAS (PART III.A.7)

THERE ARE NO KARST AREAS IDENTIFIED WITHIN THE PROJECT SITE.

IMPROVED WATERS (PART III.A.8)

THERE ARE NO IMPROVED WATER WITHIN ONE MILE RADIUS OF THIS PROJECT SITE.

AMENDMENT TO THE SWPPP (PART III.B)

HENNSPI COUNTY AND THE CITY OF PLYMOUTH WILL AMEND/UPDATE THIS SWPPP AS NEEDED AND/AS REQUIRED BY PROVISIONS OF THE GENERAL PERMIT TO ADDRESS DEFICIENCIES IN THE PREVENTION OF SWPPP POLLUTION.

TEMPORARY SEDIMENTATION BASINS (PART III.C) [APPENDIX A.C.18]

TEMPORARY SEDIMENTATION BASINS ARE NOT REQUIRED FOR THIS PROJECT. THE PROJECT WILL NOT DISTURB 50 OR MORE ACRES OF SOIL THAT DRIFT TO A COMMON LOCATION.

PERMANENT SWPPP WEATHER MANAGEMENT SYSTEM (PART III.D)

ALL SWPPP WATER MUST BE DISCHARGED IN A MANNER THAT DOES NOT CAUSE EROSION, DRAINAGE CHANNELLING, OR CONVEYANCE PROPERTIES, OR INMIXING INTO WETLANDS AND=(G) A SIGNIFICANT ADVERSE IMPACT TO THE WETLANDS.

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.

ANDREW C. McGOVERN, PROFESSIONAL ENGINEER

LICENSE NO. 48045 DATE 03/17/2017

RECORD RETENTION (PART III.E)

HENNSPI COUNTY AND ANY OTHER PERSON WHO HAS OPERATIONAL CONTROL OVER THE SITE WILL KEEP THE FOLLOWING ITEMS ON SITE DURING CONSTRUCTION:

SWPPP

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 SWPPP WATER MANAGEMENT SYSTEMS.

IMPLEMENTATION OF THE SWPPP DURING CONSTRUCTION (PART IV.A)

THE CITY OF PLYMOUTH AND ITS CONTRACTOR WILL IMPLEMENT THE REQUIREMENTS OF THE GENERAL PERMIT PART IV.A, APPENDIX A.C.2. THE SWPPP, AND THE PLANS AND SPECIFICATIONS DURING CONSTRUCTION TO PREVENT EROSION AND CONTROL SEWAGE. THE CONTRACTOR WILL INSTALL AND MAINTAIN ALL BASINS IN AN APPROPRIATE AND FUNCTIONAL MANIER.

THE CONTRACTOR WILL PREPARE AND SUBMIT A SITE PLAN FOR THE PROJECT ENGINEER’S APPROVAL FOR SECTION 1217 (AIR, LAND, AND WATER POLLUTION) OF THE SPECIAL PROVISIONS. FOR CONCRETE MANAGEMENT WORK IN ENVIRONMENTALLY SENSITIVE AREAS CONTAINED IN THE PLANS AS “SITE PLAN REQUIREMENTS,” ANY WORK THAT WILL REQUIRE DRAINAGE, THE STABILIZATION OF EROSION PROTECTION DEVICES OVER THE SITE OR THE CONTRACT, AS REQUIRED TO THE PROJECT ENGINEER. ALL SITE PLANS MUST BE SUBMITTED TO THE PROJECT ENGINEER IN WRITING.

THE CONTRACTOR SHALL NOT BE ALLOWED TO COMMENCE WORK FOR WHICH A SITE PLAN IS REQUIRED UNLESS APPROVAL HAS BEEN GRANTED BY THE PROJECT ENGINEER. THE CONTRACTOR WILL NOT BE GIVEN ANY EXTRA TIME IN THE CONTRACT DUE TO THE UNTIMELY SUBMISSION OF A SITE PLAN.

EROSION PREVENTION AND SEDIMENT CONTROL PRACTICES (PART IV.B & C) (APPENDIX A.C.1.2)

TO PREVENT EROSION AND CONTROL SEWAGE ON THIS PROJECT DURING CONSTRUCTION, THE CITY OF PLYMOUTH WILL PLAN AND INDEPENT AMP AND CONSTRUCTION PRACTICES THAT MINIMIZE EROSION, DRAINAGE CONTROL, AND SEWAGE. THE CONTRACTOR COMPLIES WITH THE INSPECTIONS AND MAINTENANCE REQUIREMENTS OF THE GENERAL PERMIT.

THE EROSION PREVENTION AND SEDIMENT CONTROL BASINS SHALL BE INSTALLED AS NECESSARY TO MINIMIZE EROSION FROM EXPOSED SURFACES AND CAPTURE SEDIMENT CRESTE. ALL EROSION CONTROL MEASURES IN PLACE PRIOR TO ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES CONSIDERED TO BE MAINTAINED UNTIL THE POTENTIAL FOR EROSION HAS BEEN ELIMINATED.

SEDIMENT CONTROL DEVICES MUST BE ERECTION ON ALL DRAINAGE-IMPACTING AREAS PRIOR TO ANY UP-GRADED LAND DISTURBING ACTIVITY BEING COMPLETED. SEDIMENT CONTROL DEVICES, INCLUDE, BUT ARE NOT LIMITED TO:

A. PERMANENT CONTROL SHALL BE LOCATED ON THE CONSTRUCTION TO CAPTURE OVERLAND, LOW INTENSITY SHEET WATER DOWN-STREAM OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATER WITH THE BWP J-MOOK AT A MAXIMUM OF 100-FOOT INTERVALS AND SHALL CONTAIN NO MORE THAN ONE-THIRD THE AREA OF THE DRAINAGE AREA.

B. INLET PROTECTION WILL BE INSTALLED AS REQUIRED TO THE PLAN DURING ALL PHASES OF CONSTRUCTION.

1. INLET PROTECTION WILL BE A METHOD DEPICTED IN THE EROSION CONTROL DETAIL. THE TYPE USED IS THE CHOICE OF THE CONTRACTOR OR AS DIRECTED BY THE ENGINEER.

C. SEDIMENT CRESTE FROM STOCKPILES WILL BE MINIMIZED BY PLACING A ROW OF Silt FENCE A MINIMUM OF 5 FEET FROM THE TOP OF SLOPE. IF THERE IS NOT A SITUATION, THE CONTRACTOR MAY SUBSTITUTE AN ALTERNATIVE FOR APPROVAL BY THE PROJECT ENGINEER.

THE CONTRACTOR SHALL PLACE VEHICLE TRACKING BANDS AS NECESSARY TO PREVENT TRACKING OR SEDIMENT ONTO PAINT SURFACES, IN COMPLIANCE WITH PART IV.A OF THE GENERAL PERMIT. VEHICLE TRACKING BANDS SHALL BE SUFFICIENTLY SIZED AND MAINTAINED TO PREVENT TRACKING. THIS WORK SHALL BE CONSIDERED INCIDENTAL, WHEN VEHICLE TRACKING BANDS DO NOT ADHERENTLY PREVENT INCIDENT TRACKING, STREET SWEEPING MUST BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

DESIGN BY:

M. WOLFF

C.S.A.H. 24 / HENNSPI COUNTY PROJECT 981701

M. WOLFF

SHEET

CHECKED BY:

M. McGOVERN

03/17/2017

LAST REVISION:

M. McGOVERN

03/17/2017
THE CONTRACTOR MUST USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OF PARTIALLY OR FULLY DRAINABLE WATER, CUTTING, GRADING, AND OTHER DESTRUCTION OR ALTERATION OF EXISTING OR FUTURE VEGETATION SOILS, OR STORMWATER CONVEYANCE SYSTEMS, SUCH AS DITCHES.

THE CONTRACTOR MUST USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, SAWDUST, DRYING AGENTS, PLANNING MATERIALS, AND OTHER CONCRETE PRODUCTS FROM ENTERING STORMWATER COURTYARD PAVING OR DRIVEWAYS, OR ENTERING ANY OTHER AREA OF MAINTENANCE OR MANAGEMENT SYSTEMS, SUCH AS DITCHES.

ENVIRONMENTS AND EXPOSED SOILS ARE TO BE KEPT IN AN EVEN ROUGH, GRADED CONDITION IN ORDER TO BE ABLE TO AVOID IMPERIAL CONTROL, MULCHES AND BLANKETS.

STABILIZATION OF ALL EXPOSED SOIL AREAS MUST BE INITIATED IMMEDIATELY UPON SUBSTANTIAL EROSION OR IN CASES, COMPLETED AFTER TEN YEARS OF CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE, TAKEN AS TEMPORARY, OR PERMANENTLY INSTALLED.

ALL EXPOSED SOIL AREAS WILL BE STABILIZED PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE MULCHED, SEEDED, OR BLANKETED WITHIN THE TIME FRAME LISTED IN THE GENERAL PERMIT.

THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS:

A. Silt fence must be repaired, replaced, or supplemented when it becomes non-functional or sediment reaches one third the height of the silt fence/earm. Ponds should be drained within 24 hours of discovery.

B. Inlet protection devices must be repaired, replaced, or supplemented when they become non-functional or sediment reaches one third the height of the inlet protection. Inlets should be drained within 24 hours of discovery.

C. Tracked sediment must be swept within 24 hours of discovery of tracking onto paved surfaces (including paved parking areas) by beaters, mowers, or other equipment. The area should be swept prior to cleaning for sweepers within 24 hours of cleaning.

D. All other non-functional BMPs must be repaired, replaced, or supplemented within 24 hours of discovery.

Filter loss shall be installed, as needed, to trap sediment on the lower end of the filter. Filter loss shall be left to protect sediment layers of filters or trees. Filter loss shall be left to protect sediment layers of filters or trees. Filters shall be placed and maintained within the filter loss within 24 hours of installation. Operations can be completed.

OUTLET TO SURFACE WATERS SHALL BE STABILIZED WITH ENERGY DETERMINATION WITHIN 24 HOURS OF BEING CONSTRUCTED. IF SEDIMENT DEPOSITS IN A WATER OF THE STATE, THE WATER MUST BE REMOVED WITHIN 7 DAYS.

DEWATERING AND BASIN DRAINING (PART IV.D)

TEMPORARY DRAINAGE ACTIVITIES MAY BE REQUIRED FOR GRADING AND UTILIT Y WORK. THE REQUIREMENT IS POSSIBLY AUXILIARY TO THE TEMPORARY DRAINAGE SYSTEM FOR BMSN AND WATER POLLUTION OF THE SPECI C PROVISIONS.

TEMPORARY DRAINAGE ACTIVITIES OF TURBID OR SEDIMENT LADEN WATER WILL BE DISCHARGED TO TEMPORARY DRAINAGE WAYS WHEREVER POSSIBLE. IN THE EVENT THAT IT IS NOT POSSIBLE TO DISCHARGE THE TURBID OR SEDIMENT LADEN WATER TO A TEMPORARY DRAINAGE BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A PULSING CONSTITUENT OF THE RECEIVING BASIN OR TO COMPLY WITH THE SPECIFICATION PROVISIONS.

BASIN DRAINAGE ACTIVITIES OF TURBID OR SEDIMENT LADEN WATER WILL BE DISCHARGED TO TEMPORARY DRAINAGE BASIN THEREAFTER, POSSIBLES, IN THE EVENT THAT IT IS NOT POSSIBLE TO DISCHARGE THE TURBID OR SEDIMENT LADEN WATER TO A TEMPORARY DRAINAGE BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A PULSING CONSTITUENT OF THE RECEIVING BASIN OR TO COMPLY WITH THE SPECIFICATION PROVISIONS.

INSPECTIONS AND MAINTENANCE (PART IV.E)

THE INSPECTION SUPERVISOR WILL BE RESPONSIBLE FOR ROUTINELY INSPECTING THE CONSTRUCTION SITE EVERY 24 HOURS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. ALL INSPECTIONS AND FINDINGS WILL BE COMPLETE IN ACCORDANCE WITH PART IV.E OF THE GENERAL PERMIT.

STORMWATER POLLUTION PREVENTION PLAN

STORMWATER POLLUTION PREVENTION PLAN

C.S.A.H. 24 / HENNEPIN COUNTY PROJECT 961701
S.A.P. 027-624-002 & S.A.P. 156-020-016
ANDREW C. McGOVERN, PROFESSIONAL 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.

Andrew C. McGovery, Professional Engineer

License No. 48045

ANDREW C. McGOVERN, PROFESSIONAL ENGINEER

DATE: 03/17/2017

DESIGN BY: M. WOLFF

CHECKED BY: M. WOLFF

LAST REVISION: 03/17/2017

48045 03/17/2017
SITE MAPS

ENVIRONMENTALLY SENSITIVE AREAS

- All environmentally sensitive areas, including wetlands, are labeled as "environmentally sensitive areas" in the plans.

OUTSTANDING RESOURCE VALUE WATERS (ORVW)

- There are no outstanding resource value waters within the project limits.

CALCAREOUS FENS

- There are no calcareous fen within the project limits.

TOTAL MAXIMUM DAILY LOAD (TMDL) WATERS

- Stormwater from this site drains into Long Lake, which is impaired for mercury and phosphorus (e.g., acidification and nutrient enrichment). For mercury, stormwater is designed to reduce mercury loads to Long Lake. For phosphorus, stormwater is designed to reduce phosphorus loads to Long Lake.

TOTAL EXISTING IMPERVIOUS SURFACE AREAS:

- 12,996 acres (excluding residential areas)

TIMING OF BMP INSTALLATION

- The stormwater management system and sediment control BMPs shall be installed as necessary to minimize erosion from existing resources and capture sediment prior to, and shall meet the criteria for flow control during construction activity, requirements, and during dry weather conditions.

DRAINAGE COMPUTATIONS

- Computations are based on field conditions and are subject to change. The hydrologic modeling includes a 10-year storm event with a 100-year floodplain.

DRAINAGE SYSTEMS

- Site drainage systems are designed to carry stormwater runoff from the project area to the nearest appropriate drainage system. The drainage systems are designed to convey stormwater runoff during normal and dry weather conditions.

SOIL TYPE

- This site contains upland soil types with a combination of loamy and sandy soils.

LANDSCAPING

- Landscaping is designed to enhance the aesthetic appeal of the site and to provide stormwater management benefits.

LONG TERM MAINTENANCE AND OPERATION

- Maintenance staff from the project engineer will maintain the site and ensure that all BMPs are functioning properly.

ENVIRONMENTAL REVIEW

- The environmental review includes a review of the environmental impact for the project and the mitigation measures implemented to minimize the impact.

SWPPP DEVELOPMENT AND MAINTENANCE

- The SWPPP is developed and maintained as part of the project's construction plan.

SWPPP AMENDMENTS

- The SWPPP shall be amended when:
  - There is a change in the construction, operation, maintenance, or servicing of existing structures.

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

- The requirements for the SWPPP are shown on the project plans and are referenced in the project narrative.

SITE PLANS

- Site plans are provided for the site.

CONSTRUCTION NOTES

- Construction notes are provided for the project.

PROJECT CONTACTS

- The project engineer and contractor are responsible for ensuring compliance with the SWPPP and the project plans.

AGENCY/ORGANIZATION

- Agency/organization information is provided for the project.

PROJECT NUMBER

- The project number is provided for the project.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (SHEET 3 OF 3)
GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY

1. All conflicts with the requirements of the Storm Water Pollution Prevention Plan (SWPPP) NARRATIVE (SHEET 2 OF 3) shall be corrected, or if applicable, approved at the discretion of the responsible party as follows: A) All non-conforming areas shall be corrected or approved at the discretion of the responsible party. B) A written statement of any conflicts shall be submitted to the responsible party. C) All non-conforming areas shall be corrected or approved at the discretion of the responsible party.

2. The contractor shall complete the Piping and Earthing submittals with the following: A) All non-conforming areas shall be corrected or approved at the discretion of the responsible party. B) A written statement of any conflicts shall be submitted to the responsible party. C) All non-conforming areas shall be corrected or approved at the discretion of the responsible party.

3. The contractor shall complete any additional submittals with the following: A) All non-conforming areas shall be corrected or approved at the discretion of the responsible party. B) A written statement of any conflicts shall be submitted to the responsible party. C) All non-conforming areas shall be corrected or approved at the discretion of the responsible party.

4. The contractor shall complete any additional submittals with the following: A) All non-conforming areas shall be corrected or approved at the discretion of the responsible party. B) A written statement of any conflicts shall be submitted to the responsible party. C) All non-conforming areas shall be corrected or approved at the discretion of the responsible party.

5. The contractor shall complete any additional submittals with the following: A) All non-conforming areas shall be corrected or approved at the discretion of the responsible party. B) A written statement of any conflicts shall be submitted to the responsible party. C) All non-conforming areas shall be corrected or approved at the discretion of the responsible party.

POLLUTION PREVENTION NOTES

1. The contractor shall comply with the following requirements regarding pollution prevention during construction, which shall include the following: A) All non-conforming areas shall be corrected or approved at the discretion of the responsible party. B) A written statement of any conflicts shall be submitted to the responsible party. C) All non-conforming areas shall be corrected or approved at the discretion of the responsible party.

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POLLUTION PREVENTION NOTES (CONT.)

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STORM WATER POLLUTION PREVENTION PLAN NOTES

CSA 112 / HENNEPIN COUNTY PROJECT NO. 091101
SAP 027-752-001

STORM WATER POLLUTION PREVENTION PLAN NOTES

1. The contractor shall complete any additional submittals with the following: A) All non-conforming areas shall be corrected or approved at the discretion of the responsible party. B) A written statement of any conflicts shall be submitted to the responsible party. C) All non-conforming areas shall be corrected or approved at the discretion of the responsible party.

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8. The contractor shall complete any additional submittals with the following: A) All non-conforming areas shall be corrected or approved at the discretion of the responsible party. B) A written statement of any conflicts shall be submitted to the responsible party. C) All non-conforming areas shall be corrected or approved at the discretion of the responsible party.
The storm water pollution prevention plan (SWPPP) narrative (Sheet 3 of 3)

**Stabilization and Sediment Control Notes**

1. Prior to constructing or expanding a facility, the storm water pollution prevention plan shall be reviewed and approved by the regulatory agency. The plan shall include: a) storm water management practices; b) storm water quality protection measures; c) erosion control measures; d) sediment and turbidity control measures; e) soil conservation measures; f) on-site and off-site storm water management practices; g) storm water drainage systems; and h) storm water quality monitoring and reporting.

2. Erosion control practices shall be designed to minimize the impact of storm water on the site. The practices shall: a) reduce the velocity of storm water runoff; b) slow the flow of storm water runoff; c) reduce the volume of storm water runoff; and d) prevent the erosion of soil and sediment.

3. Storm water shall be diverted away from sensitive areas such as wetlands, streams, and bodies of water. The storm water shall be treated to comply with applicable storm water discharge standards.

4. Storm water shall be collected and conveyed to a discharge point. The discharge point shall be designed to prevent the discharge of storm water to sensitive areas.

5. Storm water shall be treated to prevent sediment and turbidity from entering the receiving water body. The treatment methods may include: a) sediment basins; b) sediment traps; c) sediment basins with sediment control measures; and d) sediment control measures.

6. Storm water pollutants shall be minimized by use of best management practices. The best management practices may include: a) storm water runoff control; b) storm water quality protection measures; c) erosion control measures; and d) soil conservation measures.

7. Storm water shall be monitored to ensure compliance with applicable storm water discharge standards. The monitoring methods may include: a) water quality sampling; b) water quantity measurement; and c) water quality assessment.

8. Storm water pollution prevention plan (SWPPP) narrative (Sheet 3 of 3)

**STORM WATER POLLUTION PREVENTION PLAN NOTES**

CASAH 112 / HENNEPIN COUNTY PROJECT NO. 091101
SAP 027-752-001

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (Sheet 3 of 3)

<table>
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| III. Storm water shall be diverted away from sensitive areas such as wetlands, streams, and bodies of water. The storm water shall be treated to comply with applicable storm water discharge standards. |

| IV. Storm water shall be collected and conveyed to a discharge point. The discharge point shall be designed to prevent the discharge of storm water to sensitive areas. |

| V. Storm water shall be treated to prevent sediment and turbidity from entering the receiving water body. The treatment methods may include: a) sediment basins; b) sediment traps; c) sediment basins with sediment control measures; and d) sediment control measures. |

| VI. Storm water pollutants shall be minimized by use of best management practices. The best management practices may include: a) storm water runoff control; b) storm water quality protection measures; c) erosion control measures; and d) soil conservation measures. |

| VII. Storm water shall be monitored to ensure compliance with applicable storm water discharge standards. The monitoring methods may include: a) water quality sampling; b) water quantity measurement; and c) water quality assessment. |
STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

PRE-CONSTRUCTION IMPERVIOUS SURFACE AND DISTURBED AREA CALCULATIONS

PROJECT LOCATION/DESCRIPTION

Golden Valley, Minnesota - Douglas Drive Improvements

SWPPP NARRATIVE


PRE-CONSTRUCTION IMPERVIOUS SURFACE AND DISTURBED AREA CALCULATIONS

PROJECT LOCATION/DESCRIPTION

Golden Valley, Minnesota - Douglas Drive Improvements

SWPPP NARRATIVE


CONSTRUCTION PHASING/STAGING, BUFFER, & AREAS NOT TO BE DISTURBED

The project described herein, is being phased and staged as indicated in the Contract Documents. The Contractor is responsible for protecting areas marked as "NO DISTURB AREAS". The Contractor is responsible for preserving a 50 foot natural buffer asiff as the new construction work is underway. The buffer areas are defined in the field office and written on the plans. The buffer areas are defined as "NO DISTURB AREAS". The buffer areas are defined as "NO DISTURB AREAS". The buffer areas are defined as "NO DISTURB AREAS".

1. **Inspect** the buffer areas and mark them accordingly.

2. **Mark** the buffer areas with flags or other visible markers.

3. **Post** signs indicating the buffer area restrictions.

4. **Monitor** buffer area compliance regularly.

ENVIRONMENTAL SENSITIVITY

Wildlife areas are being marked on the plans. Each wildlife area must be surrounded by a 50-foot buffer. This buffer must be marked with flags or other visible markers. Signs indicating the buffer area restrictions must be posted. Monitoring of buffer area compliance must be regular.

Risk Areas: There are no known risk areas within or adjacent to the project limits.

Site Plan Required Areas: Site plans are required for specific project activities. The contractor shall not start work in the affected areas until the schedule and site plan have been accepted by the project engineer. Refer to special provisions for site plan requirements.

Roadway Continuity Plans: Project activities may occur within the 100-year floodway or floodplain. Therefore, the project engineer must ensure that a temporary plan for protection of temporary roadway continuity plans is provided. The temporary plan shall be submitted to the project engineer for approval and implemented within 15 days of initiation.

Roadway Closure Requirements: Roadway closure requirements shall be determined by the project engineer. The closure plan shall be submitted to the project engineer for approval and implemented within 15 days of initiation.

Aquatic Habitat Areas: Aquatic habitat areas are being marked on the plans. Each aquatic habitat area must be surrounded by a 50-foot buffer. This buffer must be marked with flags or other visible markers. Signs indicating the buffer area restrictions must be posted. Monitoring of buffer area compliance must be regular.

In-Stream Alterations: In-stream alterations are being marked on the plans. Each in-stream alteration must be surrounded by a 50-foot buffer. This buffer must be marked with flags or other visible markers. Signs indicating the buffer area restrictions must be posted. Monitoring of buffer area compliance must be regular.

In-Stream Fish Habitat: In-stream fish habitat is being marked on the plans. Each in-stream fish habitat must be surrounded by a 50-foot buffer. This buffer must be marked with flags or other visible markers. Signs indicating the buffer area restrictions must be posted. Monitoring of buffer area compliance must be regular.

SWPPP Notes:

- Turf establishment & erosion control
- Wetland mitigation
- Stormwater management
- Buffer areas
- Roadway closure requirements
- Aquatic habitat areas
- In-stream alterations
- In-stream fish habitat

The above notes must be followed strictly to ensure compliance with local regulations.
CONSTRUCTION ACTIVITY REQUIREMENTS (PART IV): SEDIMENT CONTROL, PROCEDURES, & MAINTENANCE STANDARDS

PERMITTED CONTROL BMPs SHALL BE INSTALLED ON ALL DRY DEPOSIT GRADIENTS AND SLOPES UNDERSIZED OF ANY OTHER AREA, PRIOR TO THE ACTIVITY STARTING. THESE ARE BMPs THAT ARE PROVEN TO BE EFFECTIVE IN CONTROLING RUNOFF AND SEDIMENT. THE CONTRACTOR MUST ENSURE THAT THE BMPs ARE IN PLACE AND BEING MAINTAINED PER THE REQUIREMENTS, OR ELSE A FINES WILL BE ASSESSED.

UPON COMPLETION OF THE CONSTRUCTION ACTIVITY, ALL Silt Fences and Runoff Control Devices MUST BE REMOVED FROM THE SITE. Any BMPs THAT ARE ABANDONED OR REMOVED WITHOUT PRIOR APPROVAL FROM THE CONTRACTOR OR PERMITTER, OR ANY OTHER QUALIFIED PERSON, MAY RESULT IN FINES BEING ASSessed.

Silt fences and Runoff Control Devices must be properly maintained, and any other BMPs that are not installed or maintained in accordance with the approved plan will result in fines being assessed.

The Contractor is responsible for ensuring that all BMPs are properly maintained and installed in accordance with the approved plan. Failure to do so may result in fines being assessed.

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SWPPP INTRODUCTION (PART III.A)

HENNEPIN COUNTY HAS DEVELOPED THIS SWresher WATER POLLUTION PREVENTION PLAN (SWPPP) TO COMPLY WITH THE REQUIREMENTS OF THE MPCA. GENERAL PERMIT NO. 10C53094 (GENERAL PERMIT) FOR THIS PROJECT. THE INFORMATION IN PARENTHESIS AFTER EACH PARAGRAPH REFERS TO THE MNDOT STANDARD SPECIFICATION 1717.

PROJECT SUMMARY (PART III.A)

THIS PROJECT WILL INCLUDE MINOR ROADWAY MODIFICATIONS INCLUDING SOME GRADING, DRAINAGE REVISIONS, Bituminous surfacing, concrete surfacing, curb and gutter, signals, and turf establishment in disturbed areas. The receiving waters for this project will be the Mississippi River which is impaired for mercury in fish tissue and fecal coliform.

TOTAL PROJECT DISTURBED AREA= 1.1 ACRES.

TOTAL EXISTING IMPERVIOUS SURFACE AREA= 1.0 ACRES.

TOTAL PROPOSED IMPERVIOUS SURFACE AREA OUTLINES= 3.0 ACRES.

TOTAL PROPOSED NET CHANGE IMPERVIOUS SURFACE AREA= 2.0 ACRES.

PROJECT DESCRIPTION (PART III.A)

HENNEPIN COUNTY TRANSPORTATION DEPARTMENT IS USING HENNEPIN COUNTY CAPITAL IMPROVEMENT FUNDS (CIP) TO CONSTRUCT A HENNEPIN COUNTY ROAD PROJECT.

THE PROJECT WILL TAKE PLACE WITHIN THE EXISTING Right-OF-WAY. THE PROJECT CHANGES ACCESS BY VACATING A SECTION OF MINNEHAHA AVENUE, CHANGING ACCESS AT FRANKLIN AVE TO A RIGHT-IN RIGHT-OUT, THE PROJECT WILL ALTER EXISTING CONDITIONS SUCH AS ROADWAY VERTICAL ALIGNMENT, CROSS SLOPES, AND ROADWAY WIDTHS.

CONSTRUCTION AND OPERATION METHODS

CONSTRUCTION AND OPERATION METHODS THAT WILL CAUSE OR INVOLVE PHYSICAL MANIPULATION OF THE ENVIRONMENT FOR THE PROPOSED PROJECT ARE EXPECTED TO INCLUDE:

- Excavation and removal of portions of the existing roadways.
- Storm sewer and signal system construction.
- Minor grading, base, bituminous and concrete surfacing, sidewalk construction.
- Temporary and permanent erosion prevention, sediment control, and turf establishment.

TIMING AND DURATION

CONSTRUCTION OF THIS PROJECT IS SCHEDULED TO BEGIN IN SPRING OF 2017 AND WILL TAKE APPROXIMATELY SIX MONTHS TO COMPLETE. ACCESS WILL BE PROVIDED TO ALL PROPERTY OWNERS THROUGHOUT CONSTRUCTION. THE ROAD WILL MAINTAIN TRAFFIC DURING CONSTRUCTION WITH LANE WIDTHS.

SWPPP IMPLEMENTATION (PART III.A)

THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE GENERAL PERMIT AT ALL TIMES PER MNDOT STANDARD SPECIFICATION 1717.

EROSION CONTROL (EC): SUPERVISOR

DRAINAGE NARRATIVE [PART III.A.4]

Within the project corridor, all of the areas are currently served by an urban drainage system, consisting of curb and gutter, and storm sewer connected into existing storm sewer systems owned by the City of Minneapolis. The proposed project will maintain this existing system with minor catch basin adjustments/reallocations.

Incorporating this SWPPP into the final plans [PART III.A.5]

Hennepin County will incorporate the requirements of this SWPPP into the project's final plans, specifications, and project documentation, as appropriate. The final plans, specifications, and project documentation will be consistent with the requirements of Part III.A.5-A.1 and Appendix A.C.1-2 of the general permit. Drainage layouts depicting the receiving water bodies from this project corridor are maintained by Hennepin County Department of Transportation.

ENVIRONMENTAL REVIEW MITIGATION MEASURES [PART III.A.6]

These are no floodplain mitigation measures required for this project.

KARST AREAS [PART III.A.7]

There are no karst areas identified in Hennepin County or on the project site.

IMPAIRED WATERS [PART III.A.8]

The Mississippi River is impaired for mercury in fish tissue (approved tool) and fecal coliform (no tool).

AMENDMENT TO THE SWPPP [PART III.B.1]

Hennepin County will amend this SWPPP as needed and/or as required by provisions of the general permit to address deficiencies in the prevention of storm water pollution.

TEMPORARY SEDIMENTATION BASINS [PART III.C.10]

Temporary sedimentation basins are not required for this project, but the project will maintain the surface water quality by: 1) Minimizing erosion and sedimentation from exposed soil areas by use of erosion control methods, and 2) Establishing and maintaining temporary sedimentation and erosion control devices.

PERMANENT STORM WATER MANAGEMENT SYSTEM [PART III.D.1]

Hennepin County will discharge all storm water in a manner that does not cause nuisance conditions or seepage of stormwater into receiving water bodies or onto paved areas. The proposed construction project will slightly decrease the impervious surface area from the existing conditions.

RECORD RETENTION [PART III.E.6]

Hennepin County and any permittee who has operational control over the site will keep the following items on site during construction:

- SWPPP
- SWPPP amendments
- Records of all inspections and maintenance conducted during construction
- All required calculations for design of the temporary and permanent storm water management systems.

IMPLEMENTATION OF THE SWPPP DURING CONSTRUCTION [PART IV.A]

Hennepin County and its contractor will implement the requirements of the general permit Part II, Appendix A-C.1-2. The SWPPP and the plans and specifications during construction to prevent erosion and control sediment, the contractor will select, install, and maintain all BMPs in an appropriate and functional manner. The contractor will prepare and submit a site plan for the project engineer's approval, per section 1717 (air, land, and water pollution) of the special provisions, for construction of the project. The contractor will plan and implement BMPs and construction practices that minimize erosion and control sediment, and ensure the contractor complies with the inspections and maintenance requirements of Part IV.E of the general permit.

Erosion prevention and sediment control BMPs shall be installed as necessary to minimize erosion and sediment impacts to surface waters. The following erosion control details and BMPs are included in plans and construction practices that minimize erosion and control sediment:

1. Inlet protection shall be any method depicted in the erosion control details. sediment damage from stockpiles will be minimized by placing a row of silt fence at least 5 feet from the toe of the slope and shall contain no more than 1-quarter acre of drainage area.

2. Erosion control devices must be installed on all down-gradient perimeters before any up-gradient land disturbing activities begin. Sediment control devices include, but are not limited to:

   - Perimeter control shall be located on the contour to capture sediment. low-velocity sheet flows from up-slope areas of exposed soils and prior to discharging to surface waters with the BMP shaped to a minimum of 100-foot intervals and shall contain no more than 1-quarter acre of drainage area.

   - Inlet protection will be placed as indicated on the plan during all phases of construction.

   - Erosion control details shall be any method depicted in the erosion control details.

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   - Perimeter control shall be located on the contour to capture sediment. low-velocity sheet flows from up-slope areas of exposed soils and prior to discharging to surface waters with the BMP shaped to a minimum of 100-foot intervals and shall contain no more than 1-quarter acre of drainage area.
Erosion Prevention and Sediment Control Practices (Part IV.D & E) (Appendix A.C.1-2) (Continued)

The contractor shall comply with the following inspection and maintenance requirements:

A. Silt fence must be repaired or supplemented when it becomes non-functional or sediment reaches one-third the height of the silt fence. Repairs must be made within 24 hours of discovery.

B. Inlet protection devices must be repaired when they become non-functional or sediment reaches one-third the height of the silt fence. Repairs must be made within 24 hours of discovery.

C. Sediment must be swept from paved surfaces within 24 hours of discovery. Sweeping must be done prior to sweeping, this work is incidental to the project.

D. Any subsurface drainage tiles damaged during construction shall be replaced or repaired and be connected to the existing tile or drainage system to ensure that existing upland drainage is perpetuated.

E. All other non-functional BMPs must be repaired, replaced, or supplemented within 24 hours of discovery.

Filter logs shall be installed, as needed, to trap sediment on the lower edge of beds or tree holes. Filter logs will be left to photo degrade. Filling beds or tree holes must be planted and mulched with woodchips within 7 days or stone mulched until planting operations can be completed.

De-watering and Basin Draining (Part V.D)

De-watering and/or basin draining is not anticipated to be required on this project. If any de-watering or basin draining occurs on this project, the contractor is required to comply with all of the requirements of Part IV.D of the general permit.

Inspection and Maintenance (Part IV.E)

The erosion control supervisor will be responsible for routinely inspecting the construction site every 3 days during active construction and within 24 hours after a rainfall event. The contractor is responsible for complying with Part IV.E of the general permit. The contractor is advised that all liquid and solids generated by concrete washout operations are to be contained in a leak-proof containment facility or impermeable liner. Burning of any material is not allowed within the project boundary.

The contractor is responsible for creating and following a written disposal plan for all waste materials. The plan will include how the material will be disposed of and the location of the disposal site. Repairs will be made within 24 hours of discovery.

Pollution Prevention Management Measures (Part IV.F)

The contractor shall be responsible for all pollution prevention management BMPs associated with the project. The contractor is responsible for complying with Part IV.F of the general permit. The contractor is advised that all liquid and solids generated by concrete washout operations are to be contained in a leak-proof containment facility or impermeable liner. Burning of any material is not allowed within the project boundary.

The contractor is responsible for creating and following a written disposal plan for all waste materials. The plan will include how the material will be disposed of and the location of the disposal site. Repairs will be made within 24 hours of discovery.

Final Stabilization (Part IV.G)

Hennepin County will ensure final stabilization of the disturbed areas of this project. The contractor shall comply with Part IV.G of the general permit and the construction plans to ensure final stabilization.

In addition, the contractor shall remove all sediment prevention and erosion control devices that need to be removed. The contractor shall clean sediment from all conveyances and sediment basins. The contractor will submit a notice of termination within 30 days of final stabilization.

Additional BMPs for Special Waters and Impaired Waters (Appendix A.B & C)

There are no additional BMP requirements for the Mississippi River.

Calcereous Fen Areas (Appendix A.B.9)

There are no calcereous Fen areas identified in Hennepin County or the project site.

Requirements for Discharging to Wetlands (Appendix A.D)

This project will not impact any wetlands and does not have any stormwater discharges with a potential for adverse impacts to a wetland.

Discharges requiring Environmental Review (Appendix A.E)

Hennepin County has complied with all environmental review requirements pertaining to this project.

Discharges Affecting Endangered or Threatened Species (Appendix A.F)

There are no adverse impacts to any endangered or threatened species.

Discharges Affecting Historic Places or Archeological Sites (Appendix A.G)

There are no adverse impacts to any historic places or archeological sites.