

Appendix E2 – Environmental Management Plan dated March 29, 2019

ENVIRONMENTAL MANAGEMENT PLAN (Project Green Sheet)

SP 2780-97 I-94 UBOL Resurfacing Maple Grove to Rogers and Brockton Interchange



3/29/2019

SHEET	TOTAL SHEETS
E1	E#

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										Contractor verification	MnDOT accepts
RIVERS, LAKES, AND WETLANDS											
		Wetland Replacement (USCOE, BWSR, MPCA)	Wetland impact are expected. These impacts will be replaced at a minimum 2:1 ratio. <ul style="list-style-type: none"> • Impacts resulting from the UBOL project will be replaced at a minimum 2:1 ratio, 1:1 via a MnDOT-owned wetland bank in Bank Service Area 7 and remaining will be within another Bank Service Area. • Impacts resulting from the Brockton interchange project will be replaced at a minimum 2:1 ratio via either credit purchase from a private bank or on-site mitigation. 				N/A				
			Wetland impacts associated with the floodplain have been minimized during the preliminary design phase. Additional minimization measures (guardrail, steeper slopes) will be further considered during final design.				N/A				
			If Section 404 (USCOE) authorization required is required. Identify those impacted by construction <ul style="list-style-type: none"> • Surrounding wetlands (permanent fill) • Rush Creek (permanent fill) 				N/A				
	Division SP, Section 1717	Section 404 (USCOE).	Applied for RGP-004-MN (add permit # when known) The Contractor will submit for review, a Wetland Management & Replacement Plan detailing proposed means, methods and maintenance protocols for erosion control, sediment control, and water quality management measures and a schedule indicating starting and completion times for each construction operation working in Rush Creek and surrounding wetland areas. <ul style="list-style-type: none"> • List Critical Activity Point(s) • In-slopes adjacent to wetlands will be steepened from 1:6 to 1:4. • Potential BMPs to be considered will include: <ul style="list-style-type: none"> ○ Down-gradient perimeter sediment control such as silt fence. Redundant perimeter control required when work is needed within the 50' buffer zone. Install redundant measures 5' from the initial perimeter control measure with stabilized ground between. ○ Ditch checks, rapid stabilization measures, pump inlet/outlet protection from scouring, stabilized construction access, etc. ○ Avoid rutting and compaction of soft soils. 			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
		Wetland Protection (USCOE, BWSR, MPCA)	The Contractor to prepare a Final Wetland Impact Plan, which is an as-built grading plan showing actual wetland impacts for Work areas affecting wetlands. Include the following: <ul style="list-style-type: none"> • Final as-built contours with 1-foot intervals • Wetland impact boundaries • Wetland impact boundaries shown in permit documents Quantify all differences between permitted wetland impacts and actual wetland impacts, list in table format by location, and label on the plan. Provide MnDOT ECM with a temporary and permanent wetland impact table, including justification for increases to temporary and permanent wetland impacts.			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
		Public Waters (DNR)	DNR Public Waters in the project area include: <ul style="list-style-type: none"> • Rush Creek (permanent fill) • Rice Lake (no impacts proposed) • Elm Creek (no impacts proposed) 				N/A				

AES Area of Environmental Sensitivity	DNR Department of Natural Resources	ER Environmental Review	MDA Minnesota Department of Agriculture	NEPA National Environmental Policy Act	SWPPP Storm Water Pollution Prevention Plan
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ATP Alternative Transportation Partnership	END Endangered	FHWA Federal Highway Administration	MnDOT Minnesota Department of Transportation	NPDES National Pollution Discharge Elimination System	USCOE US Corps of Engineers
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			List required design, avoidance, and/or protection measures included in the plan and special provisions. (provide permit # when known) Example: <ul style="list-style-type: none"> • Revegetation of disturbed soils should include native mixes in areas that are not proposed for mowed turf grass. • Any erosion Category 3 or 4 erosion control blanket shall be 3N or 4N. • Work exclusion dates: No work in water March 15th to June 15th. • Passage Bench Elevation: Field verification and elevation adjustment (if needed) shall occur in the field prior to its construction. • Invite Peter Leete to the preconstruction meeting to discuss DNR Work in Public Waters Permit Authorization #XXX. 			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
	SWPPP, Temporary Erosion Control Sheets	Impaired Waters (MPCA)	MPCA Impaired Waters within One Mile of the Project Limits that could be impacted by construction include: <ul style="list-style-type: none"> • Cedar Island Lake (Nutrients) • Fish Lake (Nutrient/eutrophication biological indicators) • Elm Creek (Chloride, Dissolved oxygen, Escherichia coli, Fishes bioassessments, Benthic macroinvertebrate bioassessments) • Rice Lake (Nutrients) • Rush Creek, South Fork (Chloride, Escherichia coli, Fishes bioassessments, Benthic macroinvertebrate bioassessments) • Rush Creek (Dissolved oxygen, Escherichia coli, Fishes bioassessments, Benthic macroinvertebrate bioassessments) 	MPCA	OES Environmental Assessment Unit		N/A	Environmental			
			List specific avoidance and protection measures and their corresponding locations in plan and special provision <ul style="list-style-type: none"> • Maintain 100' natural buffer or install redundant perimeter control within the buffer zone • Immediately initiate stabilization of exposed soil areas, and complete the stabilization within seven (7) calendar days after the construction activity in that portion of the site temporarily or permanently ceases • Provide a temporary sediment basin for common drainage locations that serve an area with five (5) or more acres disturbed at one time 			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
	SWPPP, erosion control plan	Storm Water Pollution Prevention Plan (NPDES/MPCA)	A SWPPP is required (more than one-acre disturbance). <ul style="list-style-type: none"> • The SWPPP is required for Work Package X, Y, and Z. • The Project will be required for a 30 day MPCA review period after the application for permit coverage has been submitted. Required design, avoidance, and/or protection measures included in the plan and special provisions. <ul style="list-style-type: none"> • Access across wetland must be completed on frozen soils or through the use of bog mats. • More stringent timelines for erosion control establishment in SWPPP. • Increased buffer zone between construction work and impaired water. • Added BMP measures for batch plant and/or stockpile areas. • Site specific management plans will be required for areas not immediately addressed in the SWPPP as required by the ECQP. Acceptance of these plans will be required prior to work occurring in those areas. 	NPDES Construction Stormwater Permit			N/A	Contractor Environmental & Project Manager			
	SWPPP, erosion control plan	NPDES/SDS CGP (MNR100001)	Contractor to issue a transfer of the NPDES Construction General Permit transfer from MnDOT to the Contractor to the Minnesota Pollution Control Agency, prior to NTP I.	NPDES Construction	Project Manager & OES Erosion		N/A	Contractor Environmental			

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				Stormwater Permit	Control & Stormwater Unit			& Project Manager			
			This permit requires the development of a project stormwater pollution prevention plan (SWPPP). All stages of the NPDES requirements are accounted for in Work Package X, Y, & Z. Ensure SWPPP and supporting documents are available at all times on the construction site.			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
			Perimeter control measures (including areas where redundancy is required) have been installed down gradient of proposed work areas prior to any ground disturbance activities. All stockpile areas require perimeter control measures in addition to the project's perimeter.			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
			All exposed areas, including stockpiles have received stabilization initiated immediately to limit soil erosion when construction activity has permanently or temporarily ceased on any portion of the site and will not resume for a period exceeding seven (7) calendar days.			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
			Comply with NPDES permit requirements for construction inspection and maintenance (Part 11.1).			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
			Permittees must submit a NOT within 30 days after all termination conditions listed in Section 13 of the NPDES Construction General Permit are complete.			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
		Water Appropriations (DNR)	If potential for dewatering for construction is known (pumping of more than 10,000 gal/day or million gal/years of water) identify locations and summarize actions (add lines if needed) <ul style="list-style-type: none"> Dewatering expected for abutment construction and dust suppression if needed, contractor is to apply for DNR Appropriations Permit (GPXXX-XXX) Contractor to develop a Dewatering Management Plan prior to construction, which may include groundwater dewatering practices. If future dewatering activities deviate from original accepted dewatering plan, contractor to develop specific plan associated with those activities for acceptance as an amendment to original plan prior to dewatering activities Scour protection will be provided at any outfall of dewatering activities 			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
		Watershed Management Commission	Elm Creek Watershed Management Commission BMP requirements include: <ul style="list-style-type: none"> Rate Control: Proposed Conditions 2, 10, and 100-year, 24-hour storm events not exceed existing runoff rates. Volume Reduction: 1.1-inch runoff generated from new impervious surfaces must be infiltrated/abstracted. Water Quality Treatment: No net increase in total phosphorus (TP) or total suspended solids (TSS) from pre-development land cover to post-development land cover. 								
Crow River			Stormwater runoff tributary to the Crow River from I-94 west of Cabela's will follow existing drainage patterns. Proposed BMPs within the gore areas of the I-94/TH 101 Interchange are proposed to treat the new impervious from the auxiliary lane. This stormwater runoff is conveyed through the existing I-94 ditch system to the Crow River.								
Grass Lake			Stormwater runoff from I-94 between Cabela's and the CSAH 81 overpass will be conveyed to a proposed filtration system on the northeast side of I-94. These BMPs are also required for the proposed commercial vehicle inspection site located within this subwatershed. Runoff from the BMP will be discharged into the wetlands upstream of Grass Lake.								
French Lake			There is a small portion of the runoff from the proposed improvements on CSAH 81 that is tributary to French Lake. The area generally west of 113 th Avenue North to the project limits on CSAH 81 is tributary to French Lake. A portion								

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			of CSAH 81 additional impervious surfaces will be routed south into the large BMP located in the northwest quadrant of Brockton interchange.								
Rush Creek			Stormwater runoff from the majority of Brockton interchange and I-94 from CSAH 81 overpass to TH 610 is tributary to Rush Creek. Multiple BMPs are proposed within and adjacent to the gore areas of the Brockton interchange ramp loops and areas of existing MnDOT right of way through this segment. The majority of the increase in impervious surfaces for the project is related to Brockton interchange. The BMPs within the Brockton interchange are proposed to meet the regulatory requirements for the increase in impervious surfaces in this area.								
Rice Lake			The new impervious surfaces from the expanded parking at the Rest Area will be treated with proposed BMPs adjacent to the on-ramp from the Rest Area.								
		100-year floodplain impacts	Floodplain impact is expected: <ul style="list-style-type: none"> The floodplain impacts due to Brockton interchange will be mitigated at 1:1 in compliance with local ordinances. Guardrail will be incorporated along Bridge No. 91178 to eliminate floodplain and floodway encroachment. Impacts to the northwest of the existing box culvert (approximately 160 cubic yards) will be mitigated by modifying the existing I-94 eastbound ditch and constructing a BMP to provide compensatory storage. 								
		DNR	Construction operations that may impact the floodplain will not occur during fish spawning and migration periods without approval from the MnDNR. Exact dates and allowable work will be subject to DNR permit conditions.								
		NPDES/SDS CGP (MNR100001)	The Contractor will submit for review an Environmental Management Plan which is an overview the complete process the Contractor will implement during the Project ensuring compliance is maintained. This plan should include a contingency plan for any Emergency Stormwater Management operations.		Project Manager & ECM		N/A	Contractor: Team Member TBD Post-Award			
THREATENED, ENDANGERED, AND PROTECTED SPECIES											
		Federally listed species (USFWS)	Federally listed species or designated critical habitat identified in the ESA Section 7 determination letter include: <ul style="list-style-type: none"> May affect, but not likely to adversely affect northern long eared bat (<i>Myotis septentrionalis</i>). No Effect determination for Higgins eye (<i>Lampsilis higginsii</i>), Snuffbox (<i>Epioblasma triquetra</i>), and Rusty-patched bumble bee (<i>Bombus affinis</i>). 	ENM review / Effect determination/ Concurrence letter	OES Wildlife Ecologist						
			The Northern Long-Eared Bat has been listed by the county as a protected species in the area. Required design, avoidance, and/or protection measures included in the plan and special provisions. <ul style="list-style-type: none"> Areas with trees slated for removal to be completed prior to November 1st – March 31st. Direct temporary lighting, if used, away from wooded areas during the bat active season (April 1 to Oct 31, inclusive). Tree removal must be limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field. Avoidance and/or protection measures included in Special provisions. The Contractor will submit for review a Threatened and Endangered Species Plan for threatened/endangered species avoidance and management to MnDOT.	ENM review / Effect determination/ Concurrence letter	OES Wildlife Ecologist	This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
		State listed species (DNR)	Blanding's turtles have potential to be present. <ul style="list-style-type: none"> If Blanding's turtles are found on the site, state law and rules prohibit the destruction of threatened or endangered species, except under certain prescribed conditions. If turtles are in imminent danger they need to be moved by hand out of harm's way, otherwise they should be left undisturbed. 	ENM (NHIS Review)							

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			<ul style="list-style-type: none"> Any use of Category 3 or 4 erosion control blanket shall be limited to 'bio-netting' or 'natural netting' types (category 3N or 4N), and specifically not allow plastic mesh netting. New curb, if proposed in the project, is recommended to be a mountable design (Type D, Type R, or Type S) to also allow animals to exit the roadway should they attempt to cross the road. Culverts between wetlands and on streams should be oversized (minimum 36") to allow turtles the opportunity to utilize these structures for safe passage under the road. 								
		Bald and Golden Eagle Protection Act (USFWS)	Tree removal is expected.	ENM review							
			The Contractor will submit for review, a Threatened and Endangered Species Plan, which is an overview of avoidance and management measures for the complete project site. <ul style="list-style-type: none"> Trees proposed for removal will be inspected for nests prior to being cut down. If eagle nests are discovered, a USFWS permit for unintentional disturbance and taking of the tree must be obtained 			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
VEGETATION AVOIDANCE AND PROTECTION											
			All revegetation of disturbed soils should be a native seed mix in those areas that are not proposed for mowed turf grass.	ENM Review	Project Manager or OES Roadside Veg Management Unit			Project Manager			
	Revegetation plan, grading plan	Vegetation protection	The Contractor will submit for review a Vegetation Protection & Management Plan that is in relation to the Clearing & Grubbing Plan. List specific avoidance, protection, and/or enhancement measures in the plan and special provisions. The proposed project would be constructed within existing MnDOT highway right of way and would not directly or indirectly impact nearby habitats.			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
VEGETATION INSTALLATION AND ESTABLISHMENT											
	Spec 2575.3 2575.505 Mowing;2575.505 weed spraying Removal sheets, grading plan	MPCA & MDA	The Contractor will submit for review a Vegetation Establishment & Management Plan. List required establishment measures/criteria in the such as mowing criteria, weed control. Example: <ul style="list-style-type: none"> Mowing required at 6 week intervals following permanent seeding Weed management plan required (incidental), to include equipment cleaning, weed spraying, and mowing Clean root cutting, temporary fencing, soil bridging Native vegetation to be installed on areas of disturbance per revegetation plan Seed mixes 36-311, 33-361 in SEQ & Sheets Q,R,S 	Seeding Manual	Project Manager or OES	This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
INVASIVE SPECIES / NOXIOUS WEEDS											
		Terrestrial invasive species (MDA) including	All revegetation of disturbed soils will be a native seed mix in those areas that are not proposed for mowed turf grass.	ENM review	OES Roadside Veg Management Unit						

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		noxious weeds									
		Terrestrial invasive species	During the construction phase of the project, MnDOT best management practices will be used to reduce the spread of invasive species to or from the project location. Native seed mixes will be used for re-vegetation as specified in the Stormwater Pollution Prevention Plan (SWPPP). Contractors will be required to follow all specifications related to re-vegetation and vegetation management as identified in the construction contract as well as submit for review a Noxious Weed Management Plan.			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
		Aquatic Invasive Species (DNR)	Eurasian water milfoil is known to exist in the Rice Lake basins that extend into MnDOT right of way.	ENM review	DNR Liaison			Environmental			
			The Contractor will submit for review, an Aquatic Invasive Species and Decontamination Plan highlighting the processes for all equipment decontamination. Equipment that contacts the Rice Lake basins will be inspected for vegetation, and if present, removed prior to transport.		Project Manager	This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
OTHER AREAS OF ENVIRONMENTAL SENSITIVITY											
		Aquafer protection (MDH)	Any wells that will be impacted by the project will be sealed by a licensed well contractor according to Minnesota Rules, Chapter 4725, or be relocated and coordinated with the MPCA and MDH.		OES Environmental Investigation Unit			Environmental			
		Aquafer protection	The Contractor will submit for review a Well Management Plan for specific design, avoidance, and/or protection measures, including: <ul style="list-style-type: none"> • If any unused or unsealed wells are discovered in the project area during construction, they will be sealed in accordance with Minnesota Rules Chapter 4725, or be relocated and coordinated with the MPCA and MDH. • The Contractor will complete a Well Sealing Record and include it in the final report. 			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
CONTAMINATED MATERIALS											
		MPCA, MDA,	DRO was identified at two locations (DP-17A and DP-17B) exceeding the 100 mg/kg criteria. <ul style="list-style-type: none"> • This contamination included Volatile Organic Compounds (VOCs), some metals, and nitrogen. The project will be required to manage these contaminated soil areas in conformance with MnDOT specifications. 	Phase I & II Reports	OES Environmental Investigation Unit (EIU)		N/A	MnDOT Environmental			
		Contaminated materials	The Contractor will submit for review a Contaminated Materials Management Plan & Addendum and a Contaminated Materials Investigation Work Plan including areas of known contamination, training, testing, monitoring, and management of the material. Special provisions will be developed for properly handling contaminated soil and/or groundwater encountered during construction in accordance with all applicable state and federal regulations. Include the following: <ul style="list-style-type: none"> • Contaminated Materials must be properly managed during contaminated soil excavation and contaminated groundwater dewatering • Contaminated Groundwater at DP-17A and DP-17B only needs to be treated if it is pumped or moved from its original location • Liner specifications and requirements for landscaping in the vicinity of the pond liner 			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
			Best management practices will be used to minimize the chance of hazardous waste spills during construction. <ul style="list-style-type: none"> • If a spill were to take place during construction, appropriate action to remedy the situation will be taken immediately in accordance with MPCA guidelines and regulations. 								

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ENVIRONMENTAL MANAGEMENT PLAN (Project Green Sheet)

SP 2780-97 I-94 UBOL Resurfacing Maple Grove to Rogers and Brockton Interchange



3/29/2019

SHEET	TOTAL SHEETS
E7	E#

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										Contractor verification	MnDOT accepts
			<ul style="list-style-type: none"> Any contaminated spills or leaks that occur during construction will be the responsibility of the contractor, who will notify the Duty Officer and work with the MPCA to contain and remediate contaminated soil/materials in accordance with state and federal standards. Any contaminated soil removed on site will be disposed of in a MPCA permitted landfill. 								
REGULATED MATERIALS											
		MPCA, MDH	<p>It is anticipated that the existing MnDOT West Wayside (MnDOT right of way) as well as one house and associated accessory structures (City of Dayton right of way) that are located within the footprint of the proposed Brockton interchange will be demolished and removed as part of the construction.</p> <ul style="list-style-type: none"> MnDOT will be responsible for the testing and demolition of the West Wayside structure. The City of Dayton will be responsible for the pre-demolition assessment and abatement, prior to removal of these structures. MnDOT or the City of Dayton will implement standard measures to help avoid, control and manage potential effects from contaminated materials, such as preparing and implementing a project-specific scope of work, site-specific health and safety plan and hazardous material management plan. Prior to the demolition of structures, assessments for asbestos-containing materials, lead-based paints, and other regulated materials/wastes will be performed. The appropriate notifications will be submitted to regulatory authorities prior to asbestos abatement, structure demolition or relocation activities, regardless of whether regulated waste or asbestos was discovered during the assessment. All regulated materials and waste, including hazardous waste, from such buildings will be removed and properly disposed of prior to demolition. A licensed asbestos abatement contractor will be used to remove any asbestos containing materials identified. Any regulated or contaminated materials identified will be disposed of in accordance with applicable federal, state, and local regulations in advance of construction of the project. 		OES EIU Or Project Manager		N/A	MnDOT Environmental			
		MPCA, MDH	<p>Contractor to submit for review a Regulated Materials Management Plan with proper management of materials in accordance with MnDOT special provisions. Include the following:</p> <ul style="list-style-type: none"> Materials must be properly managed during bridge deck work. Documentation that the waste was handled properly must be kept in the project file for future reference. All regulated solid wastes generated by construction of the proposed project will be disposed of properly in a permitted, licensed solid waste facility or a similarly regulated facility elsewhere. Project demolition of concrete, asphalt and other potentially recyclable construction materials will be directed to the appropriate storage, crushing or renovation facility for recycling or reuse. 			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
		MPCA, MDH	<p>Contractor to submit for review a Concrete Management Plan for all concrete work associated with the project listing appropriate BMP measures to ensure no concrete operations will cause harm to the environment, including, but not limited to:</p> <ul style="list-style-type: none"> Concrete washout procedures and locations Concrete finishing techniques Solid & liquid waste disposal procedures 		MnDOT ECM	This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
		MPCA, MDH	<p>Contractor to submit for review a Spill Containment Plan and Notification List to detail the Contractor's processes and plans to prevent, contain, clean up, remove, dispose of, and mitigate all spills, and notify affected parties. Preventive measures include:</p> <ul style="list-style-type: none"> Concrete truck washout areas, designated equipment, maintenance pads, secondary containment, and trained spill response staff. 		MnDOT ECM	This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			

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ENVIRONMENTAL MANAGEMENT PLAN (Project Green Sheet)

SP 2780-97 I-94 UBOL Resurfacing Maple Grove to Rogers and Brockton Interchange



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SHEET	TOTAL SHEETS
E8	E#

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			<ul style="list-style-type: none"> Notification includes Self Reporting procedures and the submittal of the State's Duty Officer report number to the MnDOT ECM. 								
			<ul style="list-style-type: none"> All solid wastes generated by construction of the proposed project will be disposed of properly in a permitted, licensed solid waste facility. Project demolition of concrete, asphalt, and other potentially recyclable construction materials will be directed to the appropriate storage, crushing, or renovation facility for recycling. Any green-treated wood will be documented and disposed of in a MPCA permitted Mixed Municipal Solid Waste (sanitary) landfill or Industrial Waste Landfill. 								
HISTORIC PROPERTIES / CULTURAL RESOURCES											
		National Historical Preservation (Section 106)	<p>MnDOT's CRU has coordinated with the Minnesota State Historic Preservation Office (MnSHPO) and State Archeologist. MnDOT CRU found that the project will have no adverse effect to any historic properties or cultural resources provided that the following conditions are met:</p> <ul style="list-style-type: none"> Project specific wording will be developed and incorporated into the project construction plans to provide protection to select identified burial and archaeological sites. MnDOT CRU's contact information will be included in the construction documents and if anything is altered from the current review, the contractor will notify MnDOT CRU. Survey of one pond location that could not be reviewed due to landowner permission will be completed prior to construction if disturbance to this area is proposed. 		OES Cultural Resources Unit (CRU) Or Project Manager			Project Manager			
			<p>Protective measures during construction will be used to avoid inadvertent disturbance to archaeological sites identified by MnDOT CRU and should be coordinated with the Office of the State Archeologist and the Minnesota Indian Affairs Council. These protective measures will include:</p> <ul style="list-style-type: none"> The establishment of a buffer in consultation with MnSHPO, OSA, and MIAC; The use of visual barriers such as construction fence to demarcate the buffer; Notations on project plans. 		OES Cultural Resources Unit (CRU) Or Project Manager	This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			
FARMLAND IMPACTS											
		NRCS/ MN Dept of Ag/ Farmland Protection Policy Act	See the review of farmland impacts by soil type conducted in the AD-1006 Form.		OES Environmental Assessment			Environmental			
AIR AND NOISE CONSTRUCTION IMPACTS											
		Air (Dust and Odors)	<p>Dust will be generated by normal construction activities and will be minimized through standard dust control methods such as watering and limiting the extent and duration of exposed soil conditions. Construction contractors will be required to control dust and other airborne particulates in accordance with MnDOT specifications in place at the time of construction. The Contractor will submit a Dust Control Plan, following dust control measures will be taken, as necessary:</p> <ul style="list-style-type: none"> Minimize the duration and extent of areas being exposed or regraded at any one time. Spray construction areas and haul roads with water, especially during periods of high wind or high levels of construction activity. Minimize the use of vehicles on unpaved surfaces when feasible. Tarp trucks hauling soil, sand, and other loose materials or require trucks to maintain at least two feet of freeboard. 		OES Environmental Modeling & Testing Unit			Project Manager			

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ENVIRONMENTAL MANAGEMENT PLAN (Project Green Sheet)

SP 2780-97 I-94 UBOLE Resurfacing Maple Grove to Rogers and Brockton Interchange

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			<ul style="list-style-type: none"> Pave, apply water as needed, or apply (non-toxic) soil stabilizers on unpaved access roads, parking areas and staging areas at construction sites. Use water sweepers to sweep paved access roads, parking areas, and staging areas at construction sites. Use water sweepers to sweep streets if visible soil material is carried onto adjacent public streets. Hydroseed or apply (non-toxic) soil stabilizers to inactive construction areas (previously graded areas inactive for ten days or more). Enclose, cover, water, or apply (non-toxic) soil binders to exposed stockpiles (dirt, sand, etc.). Limit traffic speeds on unpaved roads to 15 miles per hour. Utilize appropriate erosion control measures to reduce silt runoff to public roadways. Replant vegetation as quickly as possible to minimize erosion in disturbed areas. Use alternative fuels for construction equipment when feasible. Minimize equipment idling time. Maintain properly tuned equipment. 								
		Noise Pollution Control (FHWA)	<p>It is MnDOT's practice to require contractor(s) to comply with applicable local noise restrictions and ordinances to the extent that it is reasonable.</p> <ul style="list-style-type: none"> Construction activities that will be prohibited between 8:30 pm and 7:00 am include pile driving, concrete pavement demolition, pavement sawing, concrete crushing operations, and jack-hammering. 	MnDOT Noise Policy	OES Environmental Modeling & Testing Unit			Environmental			
			<p>Modeled traffic noise exceeded federal noise abatement criteria at 185 receptors.</p> <ul style="list-style-type: none"> Four barriers were found to meet MnDOT's cost effectiveness and reasonableness threshold of \$78,500 per receptor. These barriers are proposed for the project and will move forward to collect the viewpoints of benefited receptors. 								
TRAFFIC DISRUPTION											
		Traffic Management Plans	<p>MnDOT has committed to maintaining six lanes on I-94 during construction and will also monitor the local roadways that could be impacted by traffic diverting from I-94. The specific intersections MnDOT has committed to monitoring include the following:</p> <ul style="list-style-type: none"> Territorial Road/Main Street Territorial Road/CR 116 (Fletcher Lane) Territorial Road/Brockton Lane (CR 101) CSAH 30 and CR 116 CSAH 30 and CR 101 <p>Any improvements at these intersections will be temporary and removed following construction.</p> <p>MnDOT will meet with the cities and county on a weekly basis during construction to understand if there are major impacts on the local system.</p>		Traffic Engineer			Project Manager			
ACCESSIBILITY											
			<p>ADA improvements for pedestrians and bicyclists would be provided at the following interchanges:</p> <ul style="list-style-type: none"> Weaver Lake Road, Maple Grove Parkway, 93rd Avenue, and TH 101 <p>Improvements will include pedestrian ramp and signal improvements. No overall improvements to the trails are proposed.</p>		ADA Design & Construction			Project Manager			

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			The project will comply with Americans with Disabilities Act requirements for the new bicycle and pedestrian facility on the new bridge and all crosswalk improvements.			This is a requirement during the Construction stage of the Project.		Contractor: Team Member TBD Post-Award			

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