

SWPPP NARATIVE FOR UNIVERSITY OF MINNESOTA PROJECTS

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN COMPLETED TO FULFILL THE PERMIT REQUIREMENTS OF THE GENERAL CONSTRUCTION STORMWATER PERMIT (NPDES/SDS PERMIT NO. MNR100001) FOR EROSION AND SEDIMENT CONTROL FROM SITES WITH MORE THAN 1 ACRE OF SOIL DISTURBANCE. A PERMIT FROM THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) [IS/IS NOT] REQUIRED FOR THIS PROJECT.

THE [UNIVERSITY OF MINNESOTA] HAS JURISDICTIONAL AUTHORITY FOR EROSION AND SOIL CONTROL AT THIS SITE; IN ADDITION TO THE PROVISIONS OF THE PERMIT, EROSION PREVENTION AND SEDIMENTATION CONTROL SPECIFICATIONS (SECTION 31-25-00) AND UNIVERSITY STORM WATER COMPLIANCE POLICY ([HTTP://POLICY.UMN.EDU/OPERATIONS/ENVIRONMENTA-PROC04](http://policy.umn.edu/operations/environmenta-proc04)) APPLY TO THE PROJECT. UNIVERSITY PROCEDURES FOR APPLICATION, MAINTENANCE AND TERMINATION OF THE PERMIT ARE DESCRIBED IN THE SPECIFICATIONS. ADDITIONAL INFORMATION AND CONTRACTOR REQUIREMENTS ARE CONTAINED IN THE SPECIFICATIONS THAT IS NOT INCLUDED IN THIS SWPPP NARRATIVE. THE CONTRACTOR SHALL FOLLOW PERMIT REQUIREMENTS AT ALL TIMES; NOTHING IN THIS SWPPP PLAN OR SPECIFICATIONS SUPERCEDES THE CONTRACTORS RESPOSIBILITIES UNDER THE PERMIT.

THIS SWPPP MUST BE KEPT ONSITE AND UPDATED AS NECESSARY TO REFLECT CHANGES TO SITE CONDITIONS, PLACEMENT OF CONTROL MEASURES AND ELEMENTS ONSITE. THIS DOCUMENT IS REQUIRED TO REFLECT CURRENT CONDITIONS BASED ON SITE INSPECTIONS AND ACTIONS.

1. PROJECT DESCRIPTION/LOCATION

PROJECT NAME:	[INDICATE PROJECT NAME]
PROJECT NUMBER:	[INDICATE PROJECT NO]
PROJECT LOCATION:	[INDICATE STREET ADDRESS AND INTERSECTIONS]
TOTAL DISTURBED ACRES:	[INDICATE ACREAGE]
PRE-CONSTRUCTION IMPERVIOUS SURFACE ACRES:	[INDICATE ACREAGE]
POST-CONSTRUCTION IMPERVIOUS SURFACE ACRES:	[INDICATE ACREAGE]
CUMM NEW IMPERVIOUS SURFACE ACRES:	[INDICATE ACREAGE]
WORK IN/NEAR WATER/CONVEYANCE?	[INDICATE YES/NO]
ECOLOGICALLY SENSITIVE AREAS IN PROJECT SCOPE?	[INDICATE YES/NO]
TEMPORARY BASIN IN PROJECT SCOPE*?	[INDICATE YES/NO]
TYPE AND DESIGN CRITERIA OF PERMANENT BMPS IN PROJECT SCOPE**:	[INDICATE TYPE=NONE, WET BASIN, INFILTRATION/FILTRATION, REGIONAL POND, ALTERNATIVE METHOD ALONG WITH APPLCB DESIGN CRITERIA USED.]

[\*CALCULATIONS FOR TEMPORARY BASIN IS MAINTAINED WITH PROJECT DOCUMENTATION AND BY UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT.  
 \*\*LONG TERM MAINTENANCE OF PROJECT BMPS WILL BE CONDUCTED BY (INDICATE CONTRACTOR NAME OR DEPARTMENT TO COMPLETE MAINTENANCE). DESIGN CALCULATIONS AND DETAILS ARE MAINTAINED WITH PROJECT DOCUMENTATION AND BY UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT.

THE PLANNED SCOPE OF THE PROJECT INCLUDES:

- [CONSTRUCTION OF THREE NEW BUILDINGS (CENTER FOR EXCELLENCE, FOOTBALL PERFORMANCE AND INDOOR FOOTBALL PRACTICE FACILITY) ]
- [CONSTRUCTION OF NEW PARKING LOTS, DRIVEWAYS AND LOADING DOCKS, SIDEWALKS, PEDESTRIAN PLAZA AREAS AND NEW FRONT ENTRY AT BIERMAN]
- [CONSTRUCTION OF NEW UTILITIES AND STORMWATER MANAGEMENT TO SUPPORT THE NEW BUILDINGS ARE ALSO PART OF THE PROJECT.]

2. SPECIAL AND IMPAIRED WATERS

a. SPECIAL AND IMPAIRED WATERS: THESE WETLANDS, FENS, TROUT STREAMS, ORVWS AND IMPAIRED WATERS ARE LOCATED WITHIN ONE MILE (AERIAL RADIUS) OF THE PROJECT LIMITS. IF AN IMPAIRMENT APPLICABLE TO THE PROJECT HAS BEEN IDENTIFIED ON THE TABLE BELOW, APPENDIX A PROVISIONS OF THE PERMIT APPLY AND HAVE BEEN INCLUDED IN SUBSEQUENT PAGE DETAILS.

WATERBODY NAME	REACH NUMBER	IMPAIRMENT(S)	APP A APPLCB?
[LIST ANY IMPAIRED WATER OR SPECIAL WATER OR NONE]	[INDICATE REACH OR LAKE NO]	[INDICATE IMPAIRMENTS FOR THE REACH OR NONE]	INDICATE Y/N
[MISSISSIPPI R]	[07010206-503] [07010206-513]	[HG IN FISH TISSUE; FECAL COLIFORM]	[N]

3. ECOLOGICAL AND OTHER SENSITIVE AREAS

IN ADDITION TO ANY ADDITIONAL PROVISIONS DICTATED IN THE RESPECTIVE PART BELOW, THE CONTRACTOR SHALL PROVIDE SPECIAL CARE AND ATTENTION TO ECOLOGICAL OR OTHER SENSITIVE AREA(S) INDICATED IN THIS SECTION TO PREVENT TRAFFIC AND DISTURBANCE, AND TO PRESERVE VEGETATIVE COVER IN IDENTIFIED AREAS. IDENTIFIED AREAS AND APPROPRIATE SETBACKS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR, AS SPECIFIED IN SUBSEQUENT PAGE DETAILS, IF APPLICABLE.

- a. PLACEMENT OF FILL IN WATERS OF THE STATE: [THERE (IS/IN NOT) WORK IN WATERS ASSOCIATED WITH THIS PROJECT. (THE FOLLOWING/NO) ADDITIONAL PROVISIONS APPLY TO THIS PROJECT.]
- b. DRINKING WATER SUPPLY MANAGEMENT AREA: [THIS PROJECT (IS/IS NOT) WITHIN A WELLHEAD PROTECTION AREA, DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA),

OR WITHIN A KNOWN KARST AREA. (THE FOLLOWING/NO) ADDITIONAL PROVISIONS APPLY TO THIS PROJECT.]

- c. ENVIRONMENTAL REVIEW: [THIS PROJECT (IS/IS NOT) SUBJECT TO FINDINGS OF AN ENVIRONMENTAL, OR ARCHEOLOGICAL AND HISTORIC PLACES REVIEW. (THE FOLLOWING/NO) ADDITIONAL PROVISIONS APPLY TO THIS PROJECT.]
- d. ENDANGERED OR THREATENED SPECIES: THERE [ARE/ARE NOT] ENDANGERED OR THREATENED SPECIES AFFECTED BY THIS PROJECT. (THE FOLLOWING/NO) ADDITIONAL PROVISIONS APPLY TO THIS PROJECT.]
- e. AQUATIC INVASIVE SPECIES, INFESTED WATERS AND WORK IN WATERS RESTRICTIONS: PROJECT SCOPE [DOES/DOES NOT] INCLUDE WORK IN OR NEAR PUBLIC WATERS. [(THESE/NO) PUBLIC WATERS ARE IN OR NEAR THE PROJECT SITE ARE LISTED OR SPECIALLY DESIGNATED BY THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES DEPARTMENT OF WATER (DOW).]

PUBLIC WATERBODY NAME	DOW NUMBER	SPECIES LISTED	ADDITIONAL MEASURES REQD
[MISSISSIPPI R, POOL 2]	[19-0005]	FLOWERING RUSH; GRASS CARP; EURASIAN WATERMILFOIL; BIGHEAD CARP; SILVER CARP; ZEBRA MUSSEL	[INDICATE WHAT STEPS FOR CONSTRUCTION EQUIPMENT IS REQUIRED: CLEANING, KILL STEPS, PERMITTING FOR MOVEMENT.]

- f. SOIL TYPES TYPICALLY FOUND ON THIS PROJECT SITE ARE: [INDICATE GENERAL FINDINGS FROM THE SITE SOIL STUDY, ALONG WITH A DESCRIPTION OF WHETHER SOIL WILL BE CORRECTED OR AMENDED AS PART OF THE PROJECT.] SOILS (WILL/WILL NOT) BE CORRECTED AND/OR AMENDED DURING THE PROJECT. TOPSOILS WILL/WILL NOT) BE PRESEVED AS PART OF THE PROJECT.]
- g. OTHER SENSITIVE AREAS: THERE [ARE/ARE NO] OTHER SENSITIVE AREAS AT THE PROJECT SITE TO PROTECT. (THE FOLLOWING/NO) ADDITIONAL PROVISIONS APPLY TO THIS PROJECT.]

4. PROJECT PERSONNEL AND SWPPP IMPLEMENTATION RESPONSIBILITIES

ORGANIZATION	CONTACT NAME & CERTIFICATION NUMBER	PHONE
UNIVERSITY OF MINNESOTA [CPPM, UCON OR OTHER]	[UNIVERSITY PROJECT MANAGER]	
UNIVERSITY OF MINNESOTA, DEPT OF ENVIRONMENTAL HEALTH & SAFETY (DEHS) OR CAMPUS POINT-OF-CONTACT	JULIANNE RANTALA	612-626-7957
[ARCHITECT/ENGINEER FIRM NAME]		

[CONTRACTOR FIRM NAME]		
[SWPPPP PREPARER: PIERCE PINI AND ASSOCIATES]	[RHONDA PIERCE, P.E.]	[763-537-1311]
[SOIL/EROSION CONTROL INSTALLER]		
[SOIL/EROSION CONTROL INSTALLER]		
[SOIL/EROSION CONTROL INSPECTOR]		
[MPCA CONTACT, IF REVIEW REQD]		
[DNR CONTACT, IF PERMIT REQD OR AIS IMPACTED]		
[USACE CONTACT, IF PERMIT REQD]		
[CITY OF MPLS OR OTHER CONTACT, IF PERMIT REQD]		

MPCA DUTY OFFIER 24-HOUR EMERGENCY SPILL NOTIFICATION: 651-649-5451 OR 800-422-798

- a. THE UNIVERSITY OF MINNESOTA AND THE NAMED CONTRACTOR ARE COPERMITTEES FOR THE GENERAL CONSTRUCTION STORMWATER PERMIT (NPDES/SDS PERMIT NO. MNR1000010). THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE PERMIT AND UNIVERSITY STORMWATER COMPLIANCE POLICY AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA.
- b. THE CONTRACTOR SHALL DEVELOP A CHAIN OF COMMAND WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP IS IMPLEMENTED AND MAINTAINED UNTIL THE PROJECT IS COMPLETE, THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION, AND UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT HAS COMPLETED THE FINAL INSPECTION.
- c. THE PROJECT ARCHITECT/ENGINEER OF RECORD, AND THE CONTRACTOR ARE TOGETHER RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP, AND THE INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) DESCRIBED BY THE SWPPP AT ALL STAGES OF CONSTRUCTION AND UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT HAS COMPLETED THE FINAL INSPECTION.
- d. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE IMPLEMENTATION OF THE SWPPP, INCLUDING THE ACTIVITIES OF ALL OF THE CONTRACTOR’S SUBCONTRACTORS DURING CONSTRUCTION.
- e. CONTRACTOR SHALL PROVIDE AT LEAST ONE CERTIFIED INSTALLER FOR EACH CONTRACTOR OR SUBCONTRACTOR TO OVERSEE ALL INSTALLATION AND MAINTENANCE OF BMPS AND IMPLEMENTATION OF THE SWPPP. CONTRACTOR SHALL PROVIDE EVIDENCE OF CERTIFICATION FOR EACH INDIVIDUAL AT THE PRECONSTRUCTION

- MEETING AND IS MAINTAINED BY UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT WITH PROJECT DOCUMENTATION.
- f. CONTRACTOR SHALL PROVIDE AT LEAST ONE CERTIFIED INDIVIDUAL TO CONDUCT INSPECTION AND MAINTENANCE OF ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMIT AND UNIVERSITY POLICY. CONTRACTOR SHALL PROVIDE EVIDENCE OF CERTIFICATION FOR EACH INDIVIDUAL AT THE PRECONSTRUCTION MEETING AND IS MAINTAINED BY UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT WITH PROJECT DOCUMENTATION.
  - g. UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT ARE AVAILABLE FOR CONSULTATION, TECHNICAL ASSISTANCE, AND IMPLEMENTATION OF THE UNIVERSITY POLICY.
  - h. UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT WILL CONDUCT PERIODIC INSPECTIONS AND COMMUNICATE FINDINGS TO THE PROJECT ARCHITECT/ENGINEER AND THE CONTRACTOR; FINDINGS SHALL BE CORRECTED BY THE CONTRACTOR WITHIN 24 HOURS AND SHALL PROMPTLY SUBMIT DOCUMENTATION OF CORRECTIVE ACTION(S) TO UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT.
  - i. THIS SWPPP HAS BEEN PREPARED BY INDIVIDUAL(S) TRAINED IN ACCORDANCE WITH THE PERMIT'S TRAINING REQUIREMENTS FOR PREPERATION OF SWPPPS.

PREPARED BY:

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763-537-1311

TRAINING/CERTIFICATION:

DATE OF TRAINING/CERTIFICATION: 2013  
INSTRUCTOR(S): JOHN CHAPMAN  
CERTIFICATION EXPIRATION: 2016

5. SEQUENCE OF CONSTRUCTION

THE FOLLOWING DESCRIBES, IN GENERAL, THE SEQUENCE OF WORK PERFORMED ON THE SITE:

- a. CONTRACTOR SHALL VERIFY THAT ALL PERMITS HAVE BEEN OBTAINED AND/OR OBTAIN THE NECESSARY PERMITS IN ACCORDANCE WITH THE UNIVERSITY POLICY (DESCRIBED IN SPECIFICATIONS). CONTRACTOR SHALL REQUEST A PRE-DISTURBANCE INSPECTION FROM UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT PRIOR TO INITIATING EARTH DISTURBANCE ACTIVITY.
- b. CONTRACTOR SHALL INSTALL ALL PERIMETER AND DOWN-GRADIENT EROSION CONTROL AND SEDIMENT CONTROL BMPS, INCLUDING CONSTRUCTION ENTRANCES AND INLET PROTECTION DEVICES PRIOR TO SITE GRADING, EXCAVATION, STOCKPILING OR

- DISTURBING EXISTING VEGETATIVE COVER. CONTRACTOR SHALL INSTALL ALL DOWN-GRADIENT PERIMETER CONTROLS BEFORE ANY UP-GRADIENT DISTURBANCE BEGINS.
- c. THE CONTRACTOR SHALL ATTEMPT TO PHASE ALL WORK TO MINIMIZE EROSION AND MAINTAIN VEGETATIVE COVER TO THE EXTENT POSSIBLE. PRESERVE ALL NATURAL BUFFERS SHOWN ON PLAN.
  - d. CONTRACTOR SHALL MARK OR OTHERWISE DELINEATE AREAS ON THE SITE NOT TO BE DISTURBED, INCLUDING ECOLOGICALLY SENSITIVE AREAS, BEFORE CONSTRUCTION BEGINS.
  - e. CONTRACTOR SHALL ESTABLISH SITE LOCATION AND COMPLETE INSTALLATION OF ANY PORTABLE TOILET, FUELING AREA, SPILL KIT LOCATION, CONCRETE WASHOUT AREA, HAZARDOUS MATERIAL HANDLING AND STORAGE AREA, LITTER CONTROL DEVICE AREA, STAGING AREA, STOCK PILING AREA, AND OTHER SWPPP DESIGNATED AREAS. UPDATE ONSITE-COPY OF SWPPP TO REFLECT LOCATION OF THESE ITEMS.
  - f. CONTRACTOR SHALL ESTABLISH AND ENFORCE TRAFFIC FLOW AND PATTERNS, INCLUDING HAUL ROADS, AT PROJECT SITE TO MINIMIZE SOIL DISTURBANCE, TRACKING AND COMPACTION, AND TO PRESERVE NATIVE AND EXISTING VEGETATION. UPDATE ONSITE-COPY OF SWPPP TO REFLECT HAUL ROADS AND OTHER SITE TRAFFIC PATTERNS.
  - g. CONTRACTOR SHALL PERFORM SITE GRADING, EXCAVATION, STOCKPILING WORK IN ACCORDANCE WITH THE SWPPP.
    - i. STOCKPILES SHALL BE STABILIZED AROUND THE ENTIRE PERIMETER WHEN NOT ACTIVELY BEING WORKED; STOCKPILES ACTIVELY BEING WORKED SHALL BE STABILIZED AT THE END OF EACH WORK DAY. PRESERVED TOPSOIL STOCKPILES SHALL ADDITIONALLY BE COVERED. PLACE BMP A MINIMUM OF 5 FEET FROM THE TOE OF THE SLOPE WHERE FEASIBLE.
    - ii. DO NOT PLACE STOCKPILES IN NATURAL BUFFER AREAS, SURFACE WATERS OR STORMWATER CONVEYANCES.
    - iii. MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL, UNLESS INFEASIBLE. MINIMIZING SOIL COMPACTION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA OF THE SITE DICTATES THAT IT BE COMPACTED.
  - h. CONTRACTOR SHALL PROVIDE GRADING AND BMP INSTALLATION TO LIMIT SOIL EXPOSURE ON ALL SLOPES OF 3H:1V OR STEEPER TO AN UNBROKEN LENGTH OF 75 FEET OR LESS.
  - i. CONTRACTOR SHALL STABILIZE ALL EXPOSED SOILS NO LATER THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
    - i. CONTRACTOR SHALL MAINTAIN 90% VEGETATIVE COVER ON COMPLETED AREAS OF THE PROJECT SITE.
    - ii. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER.
    - iii. STABILIZE WETTED PERIMETER OF DITCH (I.E. WHERE THE DITCH GETS WET).
  - j. WHEN PERMANENT BMPS OR PORTIONS THEREOF ARE INSTALLED, CONTRACTOR SHALL STAKE OR MARK THESE AREAS, AND INSTALL SEDIMENT PROTECTION UPGRADIENT OF

COMPLETED AREAS TO AVOID COMPACTION AND FOULING OF SYSTEM ELEMENTS. PERMANENT BMPS SHALL BE CONSTRUCTED AND STABILIZED TO THE EXTENT PRACTICABLE PRIOR TO BEING PLACED INTO SERVICE. IN THE EVENT THAT PERMANENT STABILIZATION CANNOT BE ACHIEVED BEFORE BEING PLACED INTO SERVICE, TEMPORARY MEASURES TO PREVENT FOULING SHALL BE IN PLACE.

- k. CONTRACTOR SHALL PERFORM SITE RESTORATION ACTIVITIES FOR PERMANENT VEGETATIVE ESTABLISHMENT. TEMPORARY BMPS SUCH AS MULCH AND HYDROSEED DO NOT CONSTITUTE PERMANENT VEGETATIVE COVER; SOD INSTALLATION MAY CONSTITUTE PERMANENT VEGETATIVE COVER.
- l. THE CONTRACTOR SHALL ENSURE FINAL STABILIZATION:
  - i. ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OVER THE ENTIRE PREVIOUS SURFACE HAS BEEN ACHIEVED, INCLUDING STABILIZATION OF ALL DITCHES AND SWALES.
  - ii. CONTRACTOR SHALL ENSURE THAT ALL PERMANENT STORMWATER TREATMENT SYSTEMS ARE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS IF INCLUDED WITHIN THE SCOPE OF THE PROJECT.
  - iii. CONTRACTOR SHALL REMOVE ALL TEMPORARY SYNTHETIC AND STRUCTURAL BMPS, EXCEPT AS SPECIFICALLY AUTHORIZED/REQUIRED BY UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT.
  - iv. CONTRACTOR SHALL REMOVE ALL SEDIMENTS FROM STORMWATER CONVEYANCES AND PERMANENT WATER QUALITY BASINS.
  - v. CONTRACTOR SHALL REQUEST A FINAL INSPECTION FROM UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT PRIOR TO INITIATING PERMIT TERMINATION.
- m. PERMIT SHALL BE TERMINATED IN ACCORDANCE WITH THE UNIVERSITY POLICY (DESCRIBED IN SPECIFICATIONS).

6. SITE INSPECTION AND MAINTENANCE

- a. INSPECT THE ENTIRE CONSTRUCTION SITE AND DOWNGRADIENT ADJACENT SITES/AREAS , INCLUDING THE FOLLOWING:
  - i. INSPECT SURFACE WATER, INCLUDING DRAINAGE DITCHES, AND OFF-SITE PROPERTIES FOR SIGNS OF EROSION AND SEDIMENT DEPOSITION.
  - ii. INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF TRACKING ONTO PAVED SURFACES.
  - iii. INSPECT INFILTRATION AREAS FOR SIGNS OF SEDIMENT DEPOSITION AND COMPACTION, AND TO ENSURE EQUIPMENT IS NOT BEING DRIVEN INTO THE AREA.
  - iv. INSPECT, MONITOR AND MAINTAIN ALL WATER QUALITY MANAGEMENT, EROSION PREVENTION AND SEDIMENT CONTROL BMPS

- b. INSPECTION FREQUENCY. CONTRACTOR SHALL CONDUCT A SITE STORMWATER INSPECTION A MINIMUM OF ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. INSPECTIONS MAY BE SUSPENDED DUE TO FROZEN GROUND CONDITIONS UNTIL FIRST RUNOFF OCCURS OR CONSTRUCTION ACTIVITIES RESUME, WHICHEVER COMES FIRST.

THE CONTRACTOR IS RESPONSIBLE FOR INSPECTIONS UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION AND THE NOT HAS BEEN SUBMITTED TO THE MPCA, OR UNTIL PERMIT COVERAGE HAS BEEN TRANSFERRED TO ANOTHER PERMITTEE.

- c. RECORD ALL INSPECTIONS, MAINTENANCE AND CORRECTIVE ACTIONS CONDUCTED DURING CONSTRUCTION ON A UNIVERSITY-PROVIDED INSPECTION FORM WITHIN 24 HOURS OF THE ACTION. DATE AND INITIAL THE ON-SITE SWPPP WITH ANY CHANGES TO REFLECT ON-SITE CONDITIONS.
- d. ALL EROSION CONTROL MEASURES MUST BE INSTALLED AND MAINTAINED BY CONTRACTOR ACCORDING TO THE DETAILS INCLUDED IN THE CONSTRUCTION DOCUMENTS AND IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S RECOMMENDATIONS. BMPS MUST BE OPERATIONALLY FUNCTIONAL AND ADEQUATE. ALL NONFUNCTIONAL BMPS MUST BE REPAIRED OR REPLACED WITHIN 24 HOURS OF DISCOVERY OR THEREAFTER AS SOON AS FIELD CONDITIONS ALLOW.
- e. THE CONTRACTOR SHALL RESPOND TO CHANGING SITE CONDITIONS AND IMPLEMENT/SUPPLEMENT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES UTILIZED TO PROVIDE ADEQUATE PROTECTION OF DISTURBED SOILS AND ADEQUATE PREVENTION OF SEDIMENT TRANSPORT OFF-SITE.
- f. WHEN AN INSPECTION FINDS EROSION PREVENTION AND SEDIMENT CONTROL BMPS THAT ARE NONFUNCTIONAL OR INADEQUATE, ANY NONFUNCTIONAL BMPS MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS WITHIN 24 HOURS AFTER DISCOVERY OR THEREAFTER AS SOON AS FIELD CONDITIONS ALLOW. THE CONTRACTOR SHALL ALSO PLACE ANY ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY BY THE UNIVERSITY OR A/E WITHIN 24 HOURS OF NOTICE.
  - i. IF DOWN GRADIENT SEDIMENT CONTROLS ARE OVERLOADED, THE CONTRACTOR MUST INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS TO ELIMINATE OVERLOADING. THE SWPPP MUST BE AMENDED TO IDENTIFY THESE ADDITIONAL PRACTICES.
- g. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES ONE-HALF THE DEPTH OF THE DEVICE. SITE INLETS REMOVED IN RESPONSE TO A PUBLIC SAFETY CONCERN MUST BE RETURNED TO SERVICE AS SOON AS THE THREAT (EG. FLOODING) HAS RECEDED.
- h. REPAIR, REPLACE OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN THEY BECOME NON-FUNCTIONAL OR THE SEDIMENT REACHES ONE-HALF THE HEIGHT OF THE DEVICE. CONTRACTOR SHALL REPAIR OR REPLACE DEVICE THAT IS NONFUNCTIONAL BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY OR THEREAFTER AS SOON AS FIELD



CONDITIONS ALLOW. PERIMETER CONTROL DEVICES REMOVED IN RESPONSE TO A PUBLIC SAFETY CONCERN MUST BE RETURNED TO SERVICE AS SOON AS THE THREAT HAS RECEDED.

- i. TEMPORARY AND PERMANENT SEDIMENTATION BASINS MUST BE DRAINED AND SEDIMENT REMOVED BY CONTRACTOR ONCE THE SEDIMENT COLLECTED REACHES ONE-HALF THE STORAGE VOLUME WITHIN 72 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW.
  - j. ALL SEDIMENT DEPOSITS WITHIN SURFACE WATERS OR STORMWATER CONVEYANCES MUST BE REMOVED AND RESTABLIZED BY CONTRACTOR WITHIN 7 DAYS OF DISCOVERY, INCLUDING DELTAS AND STORM SEWER SEDIMENT DEPOSITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED, IF NECESSARY, FOR SUCH SEDIMENT REMOVAL. CONTACT UNIVERSITY DEHS STAFF FOR PERMITTING GUIDANCE PRIOR TO WORKING IN SURFACE WATERS.
  - k. MAINTAIN EXISTING PAVED SURFACES CLEAN OF SEDIMENT. CONSTRUCTION ENTRANCES AND PUBLIC AND PRIVATE ROADS LEADING TO AND FROM THE CONSTRUCTION ENTRANCE SHALL BE CHECKED DAILY BY CONTRACTOR. IF THE ENTRANCE BECOMES INUNDATED WITH SEDIMENT, THE CONTRACTOR SHALL CLEAN OR REPLACED AS APPROPRIATE. PUBLIC AND PRIVATE ROADS LEADING TO AND FROM THE CONSTRUCTION ENTRANCE SWEEPED OR OTHERWISE CLEANED DAILY. CONTRACTOR SHALL EXTEND SWEEPING TO THE EXTREMITY OF ANY SEDIMENT TRACKING THAT OCCURS OFF-SITE. USE MECHANICAL METHODS TO REMOVE SOLIDS FIRST, FOLLOWED BY WET METHODS, ONLY AS NEEDED. SWEEPING IS NOT A SUBSTITUTE FOR PROPER MAINTENNACE OF CONSTRUCTION ENTRANCES.
  - l. CONTRACTOR SHALL REMOVE ANY OFF-SITE SEDIMENT ACCUMULATIONS IN A MANNER AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS. STREET SWEEPING MAY HAVE TO OCCUR MORE FREQUENTLY THAN DESCRIBED ABOVE TO MINIMIZE OFF-SITE IMPACTS.
  - m. ALL INFILTRATION/FILTRATION AREAS MUST BE INSPECTED BY CONTRACTOR TO ENSURE THAT NO SEDIMENT FORM ONGOING CONSTRUCTION IS ACCUMULATING OVER THE INFILTRATION/FILTRATION AREA. SEDIMENT ACCUMULATED OVER INFILTRATION/FILTRATION MUST BE REMOVED BY CONTRACTOR.
  - n. SEE CIVIL NOTES ON SHEET 200.0CN
7. POLLUTION PREVENTION AND SPILL RESPONSE

CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING POLLUTION REVENTION MEASURES AT THE SITE, AS DESCRIBED IN DETAIL IN THE EROSION PREVENTION AND SEDIMENTATION CONTROL SPECIFICATIONS (SECTION 31-25-00).

IN GENERAL, THE FOLLOWING MEASURES ARE REQUIRED AT UNIVERSITY PROJECT SITES.

- a. BUILDING MATERIALS AND WASTES WITH THE POTENTIAL TO CONTAMINATE STORMWATER SHALL BE STORED INSIDE OR UNDER COVER IN A DESIGNATED AREA, AND SHALL BE INDICATED BY THE CONTRACTOR ON THE SWPPP SITE MAP.
  - b. LITTER AND SOLID WASTE SHALL BE PLACED INTO COVERED CONTAINERS AT A DESIGNATED AREA AT THE SITE, AND SHALL BE INDICATED BY THE CONTRACTOR ON THE SWPPP SITE MAP.
  - c. ON-SITE FUELING SHALL BE CONDUCTED IN DESIGNATED AREAS ONLY, AND SHALL BE INDICATED BY THE CONTRACTOR ON THE SWPPP SITE MAP.
  - d. A SPILL RESPONSE KIT AT EACH LOCATION SPECIFIC TO THE MATERIALS USED AT THE PROJECT SITE, AND SHALL BE INDICATED BY THE CONTRACTOR ON THE SWPPP SITE MAP.
  - e. PORTABLE TOILETS SHALL BE SECURED IN PLACE TO PREVENT TIPPED OR KNOCKED OVER, AND SHALL BE INDICATED BY THE CONTRACTOR ON THE SWPPP SITE MAP.
  - f. VEHICLE AND EQUIPMENT WASHING IS PROHIBITED AT UNIVERSITY PROJECT SITES.
  - g. CONCRETE WASH OUT WASTE, INCLUDING WASTE CURED CONCRETE, SHALL BE MANAGED OFF-SITE, OR MANAGED ON-SITE IN A DESIGNATED CONCRETE WASHOUT AREA, AND SHALL BE INDICATED BY THE CONTRACTOR ON THE SWPPP SITE MAP.
  - h. CONCRETE BATCH PLANTS MUST BE LOCATED IN A CONTAINED AREA AND MANAGED IN A MANNER TO PREVENT AIRBORNE RELEASE OF DUST, WASHOUT AND OTHER WASTE BEYOND THE CONTAINMENT AREA SO AS TO PREVENT CONTACT WITH THE GROUND OR NUISANCE CONDITIONS FROM LOADING THE PLANT.
  - i. THE CONTRACTOR SHALL USE OR ENSURE USE OF METHODS AND OPERATIONS WHICH PREVENT DUST, PARTICLES, PIECES AND SLURRY FROM DEPOSITING IN VEGETATED OR FUTURE VEGETATED AREAS, OR FROM LEAVING THE PROJECT SITE AND ENTERING A STORMWATER CONVEYANCE SYSTEM, INCLUDING A DITCH OR CULVERT.
  - j. IN THE EVENT OF A SPILL AT THE PROJECT SITE WITH A RELEASE OR POTENTIAL RELEASE TO THE ENVIRONMENT, THE CONTRACTOR SHALL COMPLETE THE UNIVERSITY SPILL NOTIFICATION FORM, AND NOTIFY THE UNIVERSITY PROJECT MANAGER, UNIVERSITY DEHS STAFF OR ITS DESIGNATED CAMPUS STORM WATER POINT-OF-CONTACT AND THE PROJECT A/E. THIS FORM IS LOCATION AT: [HTTP://WWW.DEHS.UMN.EDU/ENVIRCOMP\\_SP.HTM](http://www.dehs.umn.edu/envircomp_sp.htm). UPON DISCOVERY OF A REPORTABLE RELEASE TO THE ENVIRONMENT, THE CONTRACTOR SHALL ALSO MAKE INITIAL CONTACT WITH THE STATE DUTY OFFICER.
8. PERMANENT STORMWATER PRACTICES
- a. CONSTRUCTION OF INFILTRATION/FILTRATION PRACTICES:
    - i. INFILTRATION PERIMETER CONTROL AND EROSION CONTROL PRACTICES SHALL REMAIN IN PLACE UNTIL THE FINAL COMPLETION OF THE PROJECT OR VEGETATION HAS BEEN ESTABLISHED, WHICHEVER IS LATER.
    - ii. INSTALLATION OF INFILTRATION/FILTRATION PRACTICES SHALL BE DONE DURING PERIODS OF DRY WEATHER AND COMPLETED BEFORE A RAINFALL

EVENT. PLACEMENT OF ENGINEERED SOILS SHALL BE ON DRY NATIVE SOIL ONLY.

- iii. EXCAVATION SHALL BE COMPLETED USING A BACKHOE WITH A TOOTHED BUCKET.
- iv. NATIVE SOILS SHALL BE DE-COMPACTED TO A MINIMUM DEPTH 018 INCHES PRIOR TO PLACING ENGINEERED SOIL.
- v. THE BOTTOM SURFACE OF EXCAVATION SHALL BE LEVEL EITHOUT DIPS OR SWALES.
- vi. ENGINEERED SOIL SHALL REMAIN UNCONTAMINATED (NOT MIXED WITH OTHER SOILS) WHEN INSTALLED.
- vii. DURING CONSTRUCTION, STORMWATER MUST BE ROUTED AROUND INFILTRATION AREAS UNTIL ALL CONSTRUCTION ACTIVITY HAS CEASED AND TRIBUTARY SURFACES ARE CLEANED OF SEDIMENT.
- viii. SEE NOTES ON SHEET 200.00CN AND SPECIFICATIONS FOR FURTHER INFORMATION.

TO INCLUDE IN PLAN SHEETS:

MAP(7.5 MIN QUAD MAP INCLUDING SURFACE WATERS AND WETLANDS, PUBLIC WATERS, DIRECTIONAL, IMPAIRMENTS

LOCATION, TYPES AND QUANTITIES OF BMPS