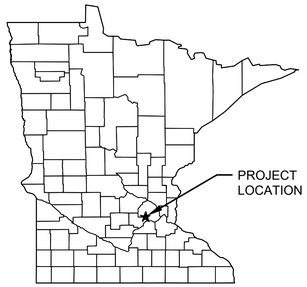
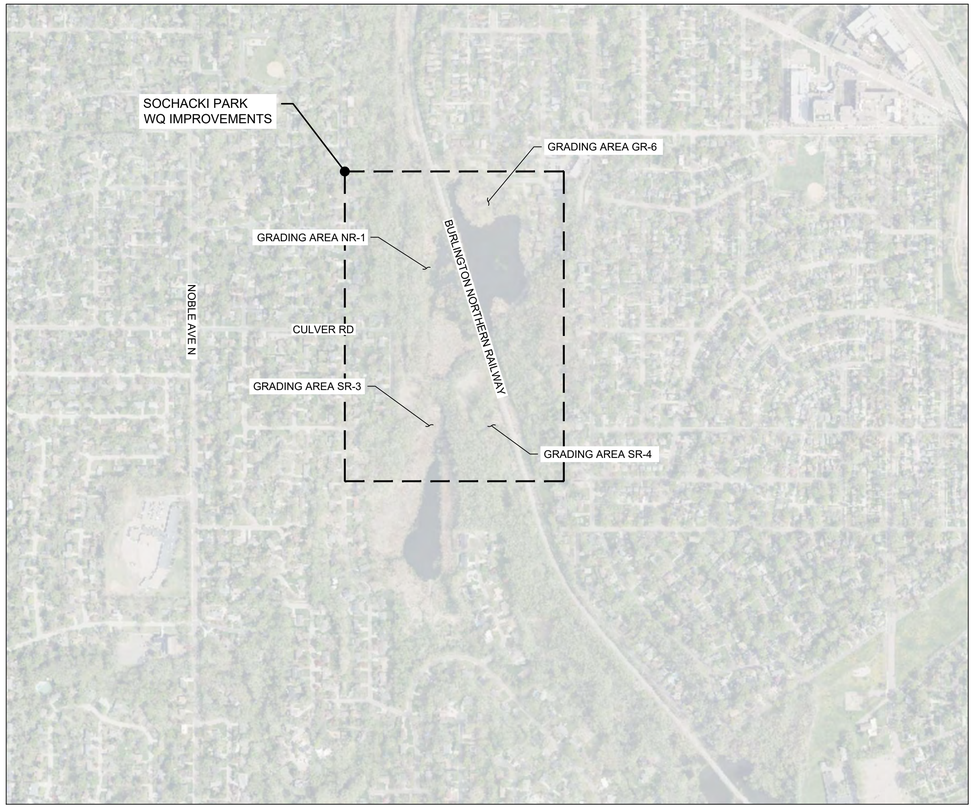
SOCHACKI PARK WATER QUALITY IMPROVEMENTS

THREE RIVERS PARK DISTRICT

CITY OF ROBBINSDALE & CITY OF GOLDEN VALLEY, MN



LOCATION MAP
NOT TO SCALE



VICINITY MAP
1 IN = 500 FT

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REFERENCING

LIMITS OF SECTION CUT

SECTION IDENTIFIER

SECTION REFERENCES
(SHEET SECTION IS
LOCATED ON)

1
C002

SECTION IDENTIFIER

1
C001 SECTION: SECTION TITLE

SECTION REFERENCES
(SHEET SECTION IS CALLED OUT)

DETAIL IDENTIFIER

1
C002

DETAIL REFERENCES
(SHEET DETAIL IS
LOCATED ON)

DETAIL IDENTIFIER

1
C001 DETAIL: DETAIL TITLE

DETAIL REFERENCES
(SHEET DETAIL IS CALLED OUT)

ABBREVIATIONS AND SYMBOLS

APPROX	APPROXIMATE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
CONC	CONCRETE
DIP	DUCTILE IRON PIPE
EL	ELEVATION
F.F.E.	FINISHED FLOOR ELEVATION
HARN	HIGH ACCURACY REFERENCE NETWORK
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
MAX	MAXIMUM
MIN	MINIMUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NO.	NUMBER
OC	ON CENTER
PVC	POLYVINYL CHLORIDE
ROW	RIGHT-OF-WAY
TBD	TO BE DETERMINED
TYP	TYPICAL
@	AT
Ø	DIAMETER

NOTES:

1. COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES, PERMITS, AND REGULATIONS.
2. VERIFY ALL QUANTITIES, GRADES, AND DIMENSIONS.
3. TOPOGRAPHIC INFORMATION BASED ON SITE SURVEY CONDUCTED BY SURVEYOR IN DATE, YEAR. SURVEY PERFORMED WITH VERTICAL DATUM OF NAVD88 (FEET).
4. FIELD-LOCATE ALL SITE UTILITIES (PRIVATE AND PUBLIC) PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF UTILITY OWNER AT CONTRACTOR'S COST.

811 Know what's **below.** **Call 811** before you dig.

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

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MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

COVER SHEET, SHEET INDEX, AND VICINITY MAP

BARR PROJECT # 2327206000
DWG # G-001
REV # A

1.0 GENERAL CONSTRUCTION ACTIVITY INFORMATION

1.1 DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED IN COMPLIANCE WITH THE MINNESOTA GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY NO. MNR100001 (GENERAL PERMIT), AS REQUIRED BY THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) PROGRAM. A COPY OF THE CURRENT VERSION OF THE GENERAL PERMIT IS AVAILABLE ON THE MPCA CONSTRUCTION STORMWATER WEBSITE.

THE PROJECT IS LOCATED IN THE CITY OF ROBBINSDALE AND GOLDEN VALLEY, HENNEPIN COUNTY, MINNESOTA. PROPOSED CONSTRUCTION ACTIVITIES WILL TAKE PLACE WITHIN SOCHACKI PARK. THE APPROXIMATE CENTROID OF THE PROJECT HAS A LATITUDE OF 45.009361 AND A LONGITUDE OF -93.331583.

THIS PROJECT INVOLVES IMPLEMENTING SEVERAL BMP FEATURES TO PROVIDE STORMWATER TREATMENT AND IMPROVING WATER QUALITY AND HABITAT IN SURROUNDING PONDS AND WATER QUALITY OF BASSETT CREEK WHICH IS LOCATED DOWNSTREAM OF THE AREA. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE REQUIRED TO MINIMIZE THE DISCHARGE OF POLLUTANTS IN STORMWATER RELATED TO CONSTRUCTION ACTIVITIES. THE WATER BODIES SHOWN IN TABLE 2.1 HAVE POTENTIAL TO RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE. REFER TO PROJECT DRAWINGS AND SPECIFICATIONS FOR FURTHER DETAILS. (CSW PERMIT ITEM 5.3)

1.2 PROJECT SIZE AND CUMULATIVE IMPERVIOUS SURFACE: (CSW PERMIT ITEM 5.8)

- THE ANTICIPATED AREA OF DISTURBANCE IS APPROXIMATELY [X.X] ACRES.
- THE TOTAL AREA OF PRE-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY [X.X] ACRES.
- THE TOTAL AREA OF POST-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY [X.X] ACRES.
- THE TOTAL NEW IMPERVIOUS AREA IS APPROXIMATELY [X.X] ACRES.

2.3 DATES OF CONSTRUCTION:

- ANTICIPATED START DATE: [MM/DD/YYYY]
- ANTICIPATED END DATE: [MM/DD/YYYY]

TABLE 1. CONTACT INFORMATION FOR OWNER

FIRM OR ORGANIZATION	THREE RIVERS PARK DISTRICT
MAILING ADDRESS	12615 ROCKFORD RD PLYMOUTH, MN 55441
CONTACT NAME, TITLE	[INSERT NAME, TITLE]
PHONE NUMBER	[INSERT NUMBER]
EMAIL ADDRESS	[INSERT ADDRESS]

TABLE 2. CONTACT INFORMATION FOR OPERATOR/GENERAL CONTRACTOR WHO WILL OVERSEE SWPPP IMPLEMENTATION [LEAVE BLANK IF UNKNOWN DURING DESIGN]

FIRM OR ORGANIZATION	[INSERT NAME OF FIRM OR ORGANIZATION]
MAILING ADDRESS	[INSERT MAILING ADDRESS]
CONTACT NAME, TITLE	[INSERT NAME]
PHONE NUMBER	[INSERT NUMBER]
EMAIL ADDRESS	[INSERT ADDRESS]

TABLE 3. CONTACT INFORMATION FOR PARTY RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER TREATMENT SYSTEM

FIRM OR ORGANIZATION	[INSERT NAME OF FIRM OR ORGANIZATION] OR [NOT APPLICABLE]
MAILING ADDRESS	[INSERT MAILING ADDRESS] OR [NOT APPLICABLE]
CONTACT, TITLE	[INSERT NAME] OR [NOT APPLICABLE]
PHONE NUMBER	[INSERT NUMBER] OR [NOT APPLICABLE]
EMAIL ADDRESS	[INSERT ADDRESS] OR [NOT APPLICABLE]

1.3 TRAINED INDIVIDUALS

THE FOLLOWING PROVIDES THE SUMMARY OF TRAINED INDIVIDUALS AND THEIR CERTIFICATIONS THAT ARE RESPONSIBLE FOR THE EXECUTION OF THIS SWPPP, FROM DESIGN TO TERMINATION.

TABLE 4: SWPPP RESPONSIBILITY MATRIX

SWPPP RESPONSIBILITY	TRAINED INDIVIDUAL	TRAINING INFORMATION[1]
PREPARATION OF THE SWPPP	ELLI B. ZAJKOWSKI	DESIGN OF SWPPP
	ENVIRONMENTAL DESIGNER	UMN
	BARR ENGINEERING	2026
OVERSIGHT OF SWPPP IMPLEMENTATION, REVISION, AND AMENDMENT	[NAME]	[CERTIFICATION NAME]
	[TITLE]	[CERTIFICATION ENTITY]
	[COMPANY]	[TRAINING COMPLETION DATE]
PERFORMANCE OF SWPPP INSPECTIONS	[NAME]	[CERTIFICATION NAME]
	[TITLE]	[CERTIFICATION ENTITY]
	[COMPANY]	[TRAINING COMPLETION DATE]
PERFORMANCE OR SUPERVISION OF INSTALLATION, MAINTENANCE, AND REPAIR OF BMPS	[NAME]	[CERTIFICATION NAME]
	[TITLE]	[CERTIFICATION ENTITY]
	[COMPANY]	[TRAINING COMPLETION DATE]

NOTES:

1. A COPY OF ALL TRAINING DOCUMENTATION FOR EACH TRAINED INDIVIDUAL MUST BE INCLUDED WITH THE ON-SITE SWPPP AND COMMENT LOG. ADD OR UPDATE ADDITIONAL TRAINED INDIVIDUAL'S DOCUMENTATION AS NECESSARY THROUGHOUT THE DURATION OF THE PROJECT.

2.0 RECEIVING WATERS

2.1 RECEIVING WATERS SUMMARY

SEE TABLE 5 BELOW AND FIGURE 1 ON PAGE 3 OF THE SWPPP FOR A SUMMARY OF ALL SURFACE WATERS WITHIN ONE MILE (NEAREST STRAIGHT LINE DISTANCE) THAT ARE LIKELY TO RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE BOTH DURING OR AFTER CONSTRUCTION. (CSW PERMIT ITEM 5.10)

TABLE 5. IDENTIFIED RECEIVING WATERS WITHIN ONE MILE OF THE PROJECT SITE

NAME OF WATER BODY	TYPE [(1)]	WATER BODY ID[(2)]	SPECIAL WATER?[(3)]	IMPAIRED WATER?[(3)(4)]	DNR PUBLIC WATER W/ WORK IN WATER RESTRICTION?
BASSETT CREEK	CREEK	07010206-811	YES	YES	NO
CRYSTAL LAKE	LAKE	27-0034-00	YES	YES	NO

NOTES:

1. TYPE EXAMPLES: DITCH, POND, WETLAND, CALCAREOUS FEN, LAKE, STREAM, RIVER
2. WATER BODY IDENTIFICATION (ID) MIGHT NOT BE AVAILABLE FOR ALL WATER BODIES. USE THE CONSTRUCTION STORMWATER SPECIAL WATERS SEARCH TOOL FOUND ON THE MPCA WEBSITE.
3. REFER TO CSW PERMIT SECTION 23.
4. IMPAIRED WATER FOR THE FOLLOWING POLLUTANT(S) OR STRESSOR(S): PHOSPHORUS (NUTRIENT EUTROPHICATION BIOLOGICAL INDICATORS), TURBIDITY, TOTAL SUSPENDED SOLIDS (TSS), DISSOLVED OXYGEN, OR AQUATIC BIOTA (FISH BIOASSESSMENT, AQUATIC PLANT BIOASSESSMENT, AND AQUATIC MACROINVERTEBRATE BIOASSESSMENT)

2.2 SPECIAL AND IMPAIRED WATERS: THE MPCA'S CONSTRUCTION STORMWATER SPECIAL WATERS SEARCH TOOL WAS USED TO LOCATE SPECIAL AND IMPAIRED WATERS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF THE PROJECT SITE. BASSETT CREEK HAS AN EPA-APPROVED IMPAIRMENT FOR BENTHIC MACROINVERTEBRATES BIOASSESSMENTS, CHLORIDE, FECAL COLIFORM AND FISH BIOASSESSMENTS, CRYSTAL LAKE HAS AN EPA-APPROVED IMPAIRMENT FOR NUTRIENTS AND PERFLUOROOCTANE SULFONATE (PFOS) IN FISH TISSUE.THESE IMPAIRMENTS ARE CONSIDERED CONSTRUCTION RELATED AND DO REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES (BMPS) OR PLAN REVIEW FOR COMPLIANCE WITH THE GENERAL PERMIT. (CSW PERMIT ITEM 2.7 AND SECTION 23)

ADDITIONAL BMPS OR OTHER SPECIFIC CONSTRUCTION RELATED IMPLEMENTATION ACTIVITIES IDENTIFIED IN AN APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL) INCLUDE PERMITTEES MUST 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. PERMITTEES MUST PROVIDE A TEMPORARY SEDIMENT BASIN AS DESCRIBED IN SECTION 14 FOR COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH FIVE (5) OR MORE ACRES DISTURBED AT ONE TIME. (CSW PERMIT ITEM 5.19 AND SECTION 23)

2.3 PUBLIC WATERS WITH WORK IN WATER RESTRICTIONS: THIS PROJECT DOES NOT INCLUDE WORK IN WATERS OR OCCURS WITHIN 200 FEET OF A PUBLIC WATER WITH WORK IN WATER RESTRICTIONS. (CSW PERMIT ITEM 5.11)

2.4 WETLAND IMPACTS: CONSTRUCTION MAY RESULT IN ADVERSE IMPACTS TO WETLANDS, INCLUDING [EXCAVATION, DEGRADATION OF WATER QUALITY, DRAINING, FILLING, PERMANENT INUNDATION OR FLOODING, CONVERSION TO A STORMWATER POND]. WETLAND IMPACTS WERE PERMITTED BY THE U.S. ARMY CORPS OF ENGINEERS (PERMIT NO. XX-XXX-XX) AND APPROVED BY [LGU NAME],THE LOCAL GOVERNMENT UNIT (LGU) RESPONSIBLE FOR ADMINISTERING THE WETLAND CONSERVATION ACT (WCA). A COPY OF THE PERMIT AND WCA APPROVAL BY THE LGU ARE AVAILABLE UPON REQUEST. (CSW PERMIT ITEMS 2.4 AND 2.10, AND SECTION 22)

2.5 ENVIRONMENTAL REVIEW AND OTHER REQUIRED REVIEWS: NO STORMWATER MITIGATION MEASURES ARE REQUIRED AS A RESULT OF ENVIRONMENTAL REVIEWS. (CSW PERMIT ITEMS 2.8, 2.9, AND 5.16)

2.6 KARST AREAS OR DRINKING WATER SUPPLY MANAGEMENT AREAS (DWSMA): THIS PROJECT IS NOT LOCATED IN A KARST AREA OR A DWSMA. NO RELATED GROUNDWATER PROTECTION RESTRICTIONS APPLY. (CSW PERMIT ITEMS 16.19, 16.20, AND 18.10)

2.7 GROUNDWATER OR SOIL CONTAMINATION: THIS PROJECT IS LOCATED IN AN AREA IDENTIFIED AS HAVING CONTAMINATED SOIL OR GROUNDWATER BASED ON A CONTAMINATION SITE ASSESSMENT. MITIGATION MEASURES TO PREVENT MOBILIZATION OF CONTAMINANTS INCLUDE: FOLLOWING AN APPROVED RESPONSE ACTION PLAN. (CSW PERMIT ITEMS 5.25 AND 16.15)

3.0 PROJECT PLANS AND SPECIFICATIONS:

TABLE 5 LISTS WHERE ON THE DRAWINGS TO FIND THE REQUIRED FEATURES OF THE SWPPP. (CSW PERMIT ITEMS 5.5, 5.9 THROUGH 5.12, AND 5.18)

TABLE 6. REFERENCE LOCATIONS FOR CONSTRUCTION STORMWATER FEATURES

FEATURE	SHEET LOCATION
PROJECT LOCATION AND CONSTRUCTION LIMITS	G001, C002
EXISTING AND FINAL GRADES, INCLUDING DRAINAGE AREA BOUNDARIES, DIRECTIONS OF FLOW, AND ALL DISCHARGE POINTS WHERE STORMWATER IS LEAVING THE SITE OR ENTERING A SURFACE WATER	ESC001, ESC002
SOIL TYPES AT THE SITE	FIGURE 2, G004
LOCATIONS OF IMPERVIOUS SURFACES	C002
LOCATIONS OF AREAS NOT TO BE DISTURBED (E.G., BUFFER ZONES, WETLANDS, ETC.)	ESC001, ESC002
LOCATIONS OF STEEP SLOPES	C002
LOCATIONS OF AREAS WHERE CONSTRUCTION PHASING WILL OCCUR TO MINIMIZE DURATION OF EXPOSED SOILS	ESC001, ESC002
PORTIONS OF THE SITE THAT DRAIN TO A PUBLIC WATER WITH DNR WORK IN WATER RESTRICTIONS FOR FISH SPAWNING TIMEFRAMES	N/A
LOCATIONS OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS AS REQUIRED IN CSW PERMIT SECTIONS 8 THROUGH 10 AND 14 THROUGH 19	ESC001, ESC002
BUFFER ZONES AS REQUIRED IN CSW PERMIT ITEMS 9.17 AND 23.11	N/A
LOCATIONS OF POTENTIAL POLLUTION-GENERATING ACTIVITIES IDENTIFIED IN CSW PERMIT SECTION 12	ESC001, ESC002
STANDARD DETAILS FOR EROSION AND SEDIMENT CONTROL BMPS TO BE INSTALLED AT THE SITE	ESC003

4.0 BEST MANAGEMENT PRACTICES (BMPS)

4.1 EROSION PREVENTION PRACTICES (CSW PERMIT SECTION 8)

1. BEFORE WORK BEGINS, DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED WITH FLAGS, STAKES, SIGNS, SILT FENCE, OR EQUIVALENT APPROVED MEASURES.
2. IMPLEMENT THE FOLLOWING EROSION PREVENTION METHODS AT THE SITE DURING CONSTRUCTION:
   - 2.A. PHASE CONSTRUCTION TO MINIMIZE THE AREA OF SOIL EXPOSED AT ANY ONE TIME.
   - 2.B. MINIMIZE SOIL DISTURBANCE TO AID IN EROSION PREVENTION.
   - 2.C. PRESERVE EXISTING VEGETATION TO LIMIT EXPOSED SOIL AND SERVE AS NATURAL VEGETATIVE BUFFERS.
   - 2.D. UTILIZE HORIZONTAL SLOPE GRADING OR SLOPE DRAINING/TERRACING TO LIMIT EROSION.
   - 2.E. STABILIZE EXPOSED SOILS ON STEEP SLOPES (≤3H:1V) USING EROSION CONTROL BLANKET OR EQUIVALENT APPROVED MEASURES.
3. STABILIZE EXPOSED SOIL AREAS (INCLUDING STOCKPILES) WITH TEMPORARY VEGETATIVE COVER AND MULCH (SUCH AS STRAW MULCH, SLASH MULCH, SHREDDED WOOD, OR OTHER APPROPRIATE MULCH), COVER MATERIAL (SUCH AS TARPS OR PLASTIC SHEETING), EROSION CONTROL BLANKET, HYDRAULIC TACKIFIERS, PERMANENT VEGETATIVE COVER, OR APPROVED EQUIVALENT MEASURES. STABILIZATION MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS, OR 7 DAYS FOR AREAS DISCHARGING TO SPECIAL OR IMPAIRED WATERS.
4. THE FOLLOWING ACTIVITIES CAN BE TAKEN TO INITIATE STABILIZATION:
   - 4.A. PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION
   - 4.B. APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA
   - 4.C. SEEDING OR PLANTING THE EXPOSED AREA
   - 4.D. FINALIZING ARRANGEMENTS TO HAVE STABILIZATION PRODUCT FULLY INSTALLED
5. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY, OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) AND THE CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS, AND SIMILAR SURFACES ARE EXEMPT FROM THESE STABILIZATION REQUIREMENTS.
6. FOR ALL EXPOSED SOIL AREAS THAT ARE WITHIN 200 FEET OF THE WATER'S EDGE AND DRAIN TO PUBLIC WATER(S) FOR WHICH THE DNR HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIME FRAMES (SEE SWPPP SECTION 2.2), INITIATE EROSION PREVENTION STABILIZATION ACTIVITIES IMMEDIATELY AFTER CONSTRUCTION ACTIVITY HAS CEASED AND COMPLETE THE STABILIZATION WITHIN 24 HOURS DURING THE RESTRICTION PERIODS.
7. STABILIZE THE WETTED PERIMETERS OF DITCHES AND SWALES WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT WITH EROSION CONTROL BLANKET, RIPRAP, OR APPROVED EQUIVALENT MEASURES. THE USE OF MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE, OR SIMILAR EROSION PREVENTION PRACTICES TO STABILIZE ANY PORTION OF THE NORMAL WETTED PERIMETER OF A STORMWATER DITCH OR SWALE IS PROHIBITED.
   - 7.A. STABILIZE THE LAST 200 LINEAR FEET OF THE NORMAL WETTED PERIMETER OF TEMPORARY OR PERMANENT DRAINAGE DITCHES OR SWALES THAT DRAIN WATER FROM THE SITE WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE.
   - 7.B. FOR THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES, STABILIZATION MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS, OR 7 DAYS FOR AREAS DISCHARGING TO SPECIAL OR IMPAIRED WATERS.
8. PROVIDE ENERGY DISSIPATION AT PIPE OUTLETS USING: RIP RAP, SPLASH PADS, OR EQUIVALENT APPROVED MEASURES.

NOT FOR CONSTRUCTION

CONTINUES ON PAGE 2 OF SWPPP.

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THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WQ IMPROVEMENTS
ROBBINSDALE, MINNESOTA
STORMWATER POLLUTION PREVENTION PLAN
1 OF 4

BARR PROJECT # 2327206000
DWG # G002
REV # A

4.0 BEST MANAGEMENT PRACTICES (BMPS) (CONTINUED FROM PAGE 1 OF SWPPP)

4.2 SEDIMENT CONTROL PRACTICES (CSW PERMIT SECTION 9)

1. INSTALL SEDIMENT CONTROL PRACTICES BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND KEEP THE PRACTICES IN PLACE UNTIL PERMANENT COVER HAS BEEN ESTABLISHED.
2. INSTALL PERIMETER SEDIMENT CONTROL PRACTICES ON ALL DOWNGRADIENT PERIMETERS OF THE SITE AND DOWNGRADIENT AREAS OF THE SITE THAT DRAIN TO ANY SURFACE WATER, INCLUDING CURB AND GUTTER SYSTEMS. SEDIMENT CONTROL PRACTICES MUST ALSO BE LOCATED UPGRADIENT OF ANY BUFFER ZONES.
3. PERIMETER SEDIMENT CONTROL PRACTICES MAY INCLUDE SILT FENCE, SEDIMENT CONTROL LOGS (FILLED WITH COMPOST, WOOD CHIPS, OR ROCK), VEGETATIVE SLASH BARRIERS, OTHER NATIVE MATERIAL BARRIERS, EARTHEN BERMS, ROCK CHECKS, OR EQUIVALENT APPROVED MEASURES.
4. IF THE DOWNGRADIENT SEDIMENT CONTROL PRACTICES ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENT), INSTALL ADDITIONAL OR REDUNDANT SEDIMENT CONTROL PRACTICES TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES.
5. IF SEDIMENT CONTROL PRACTICES NEED TO BE ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES (SUCH AS CLEARING, GRUBBING, OR PASSAGE OF VEHICLES), THE CONTROLS MUST BE RE-INSTALLED IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. SEDIMENT CONTROL PRACTICES MUST BE RE-INSTALLED BEFORE THE NEXT PRECIPITATION EVENT, EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.
6. PRIOR TO INITIATION OF STOCKPILING, SURROUND ANY TEMPORARY SOIL STOCKPILES WITH SILT FENCE, SEDIMENT CONTROL LOGS, OR EQUIVALENT APPROVED CONTROLS. TEMPORARY SOIL STOCKPILES MUST NOT BE PLACED IN ANY NATURAL BUFFERS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, UNLESS THERE IS A BYPASS IN PLACE FOR THE STORMWATER .
7. WHERE STORM DRAINS ARE PRESENT, INSTALL INLET PROTECTION DEVICES AROUND ALL STORM DRAIN INLETS DOWNGRADIENT OF CONSTRUCTION ACTIVITIES UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE ESTABLISHED PERMANENT COVER. INLET PROTECTION DEVICES MAY INCLUDE: SEDIMENT CONTROL LOGS, FILTER SACKS, ROCK WITH FILTER FABRIC, FILTER FENCE BOXES, OR EQUIVALENT APPROVED CONTROLS. INLET PROTECTION MAY BE REMOVED FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (E.G. STREET FLOODING/FREEZING) IS IDENTIFIED BY THE PERMITTEE(S) OR THE JURISDICTIONAL AUTHORITY. DOCUMENT THE NEED FOR REMOVAL IN THE SWPPP.
8. INSTALL VEHICLE TRACKING BMPS, SUCH AS ROCK PADS, MUD MATS, SLASH MULCH, CONCRETE OR STEEL WASH RACKS, OR AN EQUIVALENT APPROVED SYSTEM TO MINIMIZE THE TRACKING OUT OF SEDIMENT FROM THE CONSTRUCTION AREA OR ONTO PAVED ROADS WITHIN THE SITE. STREET SWEEPING MUST BE USED, IN ADDITION TO VEHICLE TRACKING BMPS, IF VEHICLE TRACKING BMPS ALONE ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING.
9. MINIMIZE SOIL COMPACTION ON THE SITE EXCEPT WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES COMPACTION. RESTRICT VEHICLE AND EQUIPMENT USE TO MINIMIZE SOIL COMPACTION. PRESERVE TOPSOIL ON THE SITE UNLESS INFEASIBLE. (CSW PERMIT ITEMS 5.24, 9.14, AND 9.15)
10. DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS OF THE SITE (INCLUDING ANY NATURAL BUFFERS) IN ORDER TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION. IF EROSION IS NOTED TO OCCUR AS THE RESULT OF SUCH A DISCHARGE, INSTALL VELOCITY DISSIPATION BMPS TO PREVENT EROSION.
11. PRESERVE A NATURAL BUFFER BETWEEN THE PROJECT'S SOIL DISTURBANCE AND ANY DOWNGRADIENT SURFACE WATERS. FOR WETLANDS AND NON-SPECIAL WATERS, PROVIDE A 50-FOOT NATURAL BUFFER. FOR SPECIAL WATERS, PROVIDE A 100-FOOT NATURAL BUFFER. IF THE REQUIRED BUFFER IS INFEASIBLE OR IF THE PROJECT'S EARTH DISTURBANCES ARE LOCATED LESS THAN THE BUFFER WIDTH AWAY FROM THE SURFACE WATER, PROVIDE REDUNDANT SEDIMENT CONTROLS AT LEAST FIVE FEET APART, UNLESS LIMITED BY LACK OF AVAILABLE SPACE.
12. TEMPORARILY OR PERMANENTLY STABILIZE ANY SEDIMENT CONTROLS MADE OF SOIL, SUCH AS DIVERSION BERMS WITHIN 24 HOURS.
13. USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION. USE POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER. DIRECT TREATED STORMWATER TO A SEDIMENT CONTROL SYSTEM FOR FILTRATION OR SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE.

4.3 TEMPORARY SEDIMENT BASIN(S): THIS PROJECT DOES NOT RESULT IN 10 OR MORE ACRES THAT DRAIN TO A COMMON LOCATION OR 5 OR MORE ACRES THAT DRAIN TO A COMMON LOCATION WITHIN 1 MILE OF A SPECIAL OR IMPAIRED WATER, THEREFORE TEMPORARY SEDIMENT BASINS ARE ALLOWED BUT NOT SPECIFICALLY REQUIRED. (CSW PERMIT ITEMS 5.6, 5.13, 5.14, 9.13, AND 23.10 AND SECTION 14)

4.4 DEWATERING AND BASIN DRAINING: DEWATERING AND BASIN DRAINING DISCHARGES MUST NOT CAUSE NUISANCE CONDITIONS IN SURFACE WATERS. VISUALLY CHECK AND PHOTOGRAPH THE DISCHARGE AT THE BEGINNING AND AT LEAST ONCE EVERY 24 HOURS OF OPERATION TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED AND NUISANCE CONDITIONS WILL NOT RESULT FROM THE DISCHARGE. IF NUISANCE CONDITIONS RESULT FROM THE DISCHARGE, CEASE DEWATERING IMMEDIATELY AND TAKE CORRECTIVE ACTIONS BEFORE DEWATERING IS RESUMED. INSTALL VELOCITY DISSIPATION BMPS, AS NEEDED, TO PREVENT EROSION OR SCOUR AT DISCHARGE POINTS. (CSW PERMIT ITEM 11.9 AND SECTION 10)

IF FILTERS WITH BACKWASH WATER ARE USED, HAUL THE BACKWASH WATER AWAY FOR DISPOSAL, RETURN THE BACKWASH WATER TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWASH WATER INTO THE SITE IN A MANNER THAT DOES NOT CAUSE EROSION. (CSW PERMIT ITEM 10.6)

4.5 BMP DESIGN FACTORS: THE FOLLOWING BMP DESIGN FACTORS HAVE BEEN CONSIDERED IN DESIGNING THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL BMPS: (CSW PERMIT ITEM 5.26)

1. EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION; AND
2. NATURE OF STORMWATER RUNOFF AND RUN-ON AT THE SITE, INCLUDING FACTORS SUCH AS EXPECTED FLOW FROM IMPERVIOUS SURFACES, SLOPES, AND SITE DRAINAGE FEATURES; AND
3. STORMWATER VOLUME, VELOCITY, AND PEAK FLOWRATES TO MINIMIZE DISCHARGE OF POLLUTANTS IN STORMWATER AND TO MINIMIZE CHANNEL AND STREAMBANK EROSION AND SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS; AND
4. RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT.

4.6 BMP QUANTITIES: ANTICIPATED EROSION PREVENTION AND SEDIMENT CONTROL BMP QUANTITIES NEEDED FOR THE LIFE OF THE PROJECT ARE INCLUDED IN TABLE 8 ON PAGE 3 OF THE SWPPP. (CSW PERMIT ITEM 5.7)

5.0 PERMANENT STORMWATER MANAGEMENT SYSTEM

THE PROJECT DOES NOT RESULT IN ONE ACRE OR MORE OF NEW IMPERVIOUS SURFACES, THEREFORE A PERMANENT STORMWATER TREATMENT SYSTEM NOT REQUIRED FOR COMPLIANCE WITH THE MINNESOTA CONSTRUCTION STORMWATER GENERAL PERMIT. (CSW PERMIT ITEMS 5.4, 5.6, AND 5.25 AND SECTIONS 15 THROUGH 19)

DO NOT EXCAVATE INFILTRATION OR FILTRATION SYSTEMS TO FINAL GRADE, OR WITHIN THREE (3) FEET OF FINAL GRADE, UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED UNLESS RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS (E.G., DIVERSION BERMS) ARE PROVIDED TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE INFILTRATION AREA. WHEN EXCAVATING AN INFILTRATION OR FILTRATION SYSTEM TO WITHIN THREE (3) FEET OF FINAL GRADE, STAKE OFF AND MARK THE AREA SO HEAVY CONSTRUCTION VEHICLES OR EQUIPMENT DO NOT COMPACT THE SOIL IN THE INFILTRATION OR FILTRATION AREA. (CSW PERMIT ITEMS 16.4, 16.5, AND 17.3)

6.0 INSPECTION AND MAINTENANCE ACTIVITIES

6.1 PERSONS WITH REQUIRED TRAINING: TRAINED INDIVIDUALS INCLUDE THOSE PARTIES RESPONSIBLE FOR INSTALLING, SUPERVISING, REPAIRING, INSPECTING, AND MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL BMPS AT THE SITE. TRAINED INDIVIDUALS ARE ALSO RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND COMPLIANCE WITH THE GENERAL PERMIT UNTIL THE CONSTRUCTION ACTIVITIES ARE COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED, AND A NOTICE OF TERMINATION (N.O.T.) HAS BEEN SUBMITTED. (CSW PERMIT ITEMS 5.20, 5.21, AND 11.10 AND SECTION 21)

THE INDIVIDUALS MUST BE TRAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL PERMIT, INCLUDING THE REQUIREMENT THAT THE CONTENT AND EXTENT OF TRAINING WILL BE COMMENSURATE WITH THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES. TABLE 4 ON PAGE 1 OF THE SWPPP PROVIDES THE MATRIX OF PEOPLE RESPONSIBLE FOR THIS PROJECT WHO ARE KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS.

6.2 INSPECTION FREQUENCY: ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS (CSW PERMIT ITEMS 11.2, 11.11, AND 23.13)

THE INSPECTION FREQUENCY MAY BE ADJUSTED UNDER THE FOLLOWING CIRCUMSTANCES:

1. WHERE PARTS OF THE CONSTRUCTION AREAS HAVE PERMANENT COVER, BUT WORK REMAINS ON OTHER PARTS OF THE SITE, INSPECTIONS OF THE AREAS WITH PERMANENT COVER MAY BE REDUCED TO ONCE PER MONTH.
2. WHERE CONSTRUCTION AREAS HAVE PERMANENT COVER AND NO CONSTRUCTION ACTIVITY IS OCCURRING ON THE SITE, INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES.
3. WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, THE INSPECTIONS MAY BE SUSPENDED. THE REQUIRED INSPECTIONS AND MAINTENANCE SCHEDULE MUST BEGIN WITHIN 24 HOURS AFTER RUNOFF OCCURS AT THE SITE OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.
4. FOR PROJECTS WHERE A POLLINATOR HABITAT OR NATIVE PRAIRIE TYPE VEGETATED COVER IS BEING ESTABLISHED, INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH IF THE SITE HAS TEMPORARY VEGETATION WITH A DENSITY OF 70% TEMPORARY UNIFORM COVER. IF AFTER 24 MONTHS NO SIGNIFICANT EROSION PROBLEMS ARE OBSERVED, INSPECTIONS MAY BE SUSPENDED COMPLETELY UNTIL TERMINATION REQUIREMENTS HAVE BEEN MET.

6.3 INSPECTION REQUIREMENTS: INSPECT THE FOLLOWING AREAS AS PART OF EACH CONSTRUCTION STORMWATER SITE INSPECTION: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

1. ALL PERMANENT STORMWATER TREATMENT BMPS
2. ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES
3. AREAS ADJACENT TO THE PROJECT AND SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS BUT NOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION
4. CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING
5. DEWATERING DISCHARGES (AT THE BEGINNING AND AT LEAST ONCE EVERY 24 HOURS DURING OPERATION).

6.4 MAINTENANCE REQUIREMENTS: PERFORM INCIDENTAL AND ROUTINE MAINTENANCE OF BMPS AS FOLLOWS. (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

1. REPAIR, REPLACE, OR SUPPLEMENT NONFUNCTIONAL BMPS WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
2. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS..
3. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND PERMANENT SEDIMENTATION BASINS WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME, WITHIN 72 HOURS OF DISCOVERY.
4. REMOVE DELTAS AND SEDIMENT DEPOSITED IN AREAS ADJACENT TO THE PROJECT, SURFACE WATERS, DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS WITHIN 7 CALENDAR DAYS OF DISCOVERY UNLESS LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS PREVENT IT. RE-STABILIZE ANY AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOILS.
5. REMOVE SEDIMENT TRACKED ONTO PAVED SURFACES WITHIN 1 CALENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS.
6. RE-STABILIZE AREAS UNDERGOING STABILIZATION AS NECESSARY TO ACHIEVE REQUIRED COVER.

6.5 RECORDKEEPING REQUIREMENTS: (CSW PERMIT ITEMS 11.12 AND 24.5 AND SECTIONS 6 AND 20)

1. RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WITHIN 24 HOURS OF BEING CONDUCTED AND RETAIN THESE RECORDS WITH THE SWPPP. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY MUST INCLUDE THE DATE AND TIME; NAME OF INSPECTOR(S); FINDINGS OF INSPECTIONS; CORRECTIVE ACTIONS (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND DATE OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS AND THE AMOUNT OF RAINFALL FOR EACH EVENT.
   - 1.A. IF ANY DISCHARGE IS OBSERVED DURING THE INSPECTION, DOCUMENT AND PHOTOGRAPH THE LOCATION AND APPEARANCE OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS).
   - 1.B. IF DEWATERING ACTIVITIES ARE OCCURRING, VISUALLY CHECK AND PHOTOGRAPH THE DISCHARGE AT THE BEGINNING AND AT LEAST ONCE EVERY 24 HOURS OF OPERATION. DOCUMENT ANY NUISANCE CONDITIONS ASSOCIATED WITH THE DISCHARGE RESULTING FROM DEWATERING ACTIVITIES.
2. AMEND THE SWPPP WITHIN 7 DAYS TO INCLUDE ADDITIONAL OR MODIFIED BMPS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER, OR SEASONAL CONDITIONS THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER.
   - 2.A. AMEND THE SWPPP WITHIN 7 DAYS WHEN INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER, SITE OPERATOR, US EPA, OR MPCA OFFICIALS INDICATE: 1) THAT THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER; 2) THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDANCES; OR, 3) THE SWPPP IS NOT CONSISTENT WITH A US EPA-APPROVED TMDL.
   - 2.B. DOCUMENT ANY SWPPP AMENDMENTS PROPOSED AS A RESULT OF THE INSPECTION WITHIN 7 CALENDAR DAYS.
   - 2.C. AN APPROPRIATELY TRAINED INDIVIDUAL MUST COMPLETE SWPPP AMENDMENTS. PROVIDE JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS FOR ANY CHANGE INVOLVING THE USE OF A LESS STRINGENT BMP.
3. KEEP THE SWPPP, INCLUDING ALL CHANGES TO IT AND INSPECTION AND MAINTENANCE RECORDS, ON-SITE OR ELECTRONICALLY-AVAILABLE DURING NORMAL WORKING HOURS WITH PERSONNEL WHO HAVE OPERATIONAL CONTROL OF THE SITE.
4. THE SWPPP, INCLUDING INSPECTION REPORTS, MAINTENANCE RECORDS, AND TRAINING RECORDS, MUST BE MADE AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN 3 DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT COVERAGE AND FOR 3 YEARS FOLLOWING THE N.O.T..

CONTINUES ON PAGE 3 OF SWPPP.

PRELIMINARY DRAFT
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#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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NUMBER 10104111545

THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WQ IMPROVEMENTS
ROBBINSDALE, MINNESOTA
STORMWATER POLLUTION PREVENTION PLAN
2 OF 4

BARR PROJECT # 2327206000
DWG # G003
REV # A

CONTINUED FROM PAGE 2 OF SWPPP.

7.0 POLLUTION PREVENTION MANAGEMENT MEASURES:

1. STORE ALL CONSTRUCTION MATERIALS, LANDSCAPE MATERIALS, PESTICIDES, FERTILIZERS, AND OTHER CHEMICALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS UNDER COVERINGS (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH STORMWATER CONTACT. MINIMIZE THE STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA. (CSW PERMIT ITEMS 12.2 AND 12.3)
2. STORE AND DISPOSE OF HAZARDOUS MATERIALS AND TOXIC WASTE (E.G., OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN COMPLIANCE WITH MINNESOTA RULE, CHAPTER 7045, INCLUDING SECONDARY CONTAINMENT, AS APPLICABLE. PROPERLY STORE HAZARDOUS MATERIALS IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGES AND PREVENT PRECIPITATION FROM FALLING ONTO THE CONTAINERS OR STORED HAZARDOUS MATERIALS. (CSW PERMIT ITEMS 2.3 AND 12.4)
3. COLLECT, STORE, AND PROPERLY DISPOSE OF SOLID WASTE IN COMPLIANCE WITH MINNESOTA RULE, CHAPTER 7035. THIS INCLUDES STORAGE WITHIN COVERED TRASH CONTAINERS AND DAILY REMOVAL OF LITTER AND DEBRIS. MINIMIZE THE STORAGE OF SOLID WASTE WITHIN THE PROJECT AREA. (CSW PERMIT ITEM 12.5)
4. PROVIDE PORTABLE TOILETS AWAY FROM SURFACE WATERS AND SECURELY POSITION SO THEY CANNOT NOT TIP OR BE KNOCKED OVER. DISPOSE OF ALL SANITARY WASTE IN ACCORDANCE WITH MINNESOTA RULE, CHAPTER 7041. REGULARLY EMPTY PORTABLE TOILETS AND HAUL AND DISPOSE OF THE WASTE OFF-SITE BY A LICENSED HAULER. (CSW PERMIT ITEM 12.6)
5. ONLY FUEL VEHICLES IN DESIGNATED AREAS. PROVIDE SPILL KITS APPROPRIATELY-SIZED FOR THE AMOUNT OF REFUELING TAKING PLACE WITHIN THE PROJECT AREA. ENSURE SKILL KITS ARE CLEARLY LABELED AND CONTAIN MATERIALS TO ASSIST IN SPILL CLEANUP, INCLUDING ABSORBENT PADS, SPILL-CONTAINMENT BOOMS, AND HEAVY-DUTY PROTECTIVE GLOVES. REPORT SPILLS TO THE MINNESOTA DUTY OFFICER AS REQUIRED BY MINNESOTA STATUTE, SECTION 115.061. (CSW PERMIT ITEMS 2.3 AND 12.7)
   - 5.A. ANY FUEL TANKS BROUGHT ON-SITE MUST HAVE PROPERLY-SIZED CONTAINMENT AND MUST NOT BE TOPPED OFF TO AVOID OVERFILLING. FUEL TANKS MUST BE DESIGNED TO MEET INDUSTRY STANDARDS AND PROPERLY MAINTAINED OR BE REMOVED FROM THE WORK AREA.
   - 5.B. GUIDELINES FOR SPILL PREVENTION AND RESPONSE INCLUDE:
     - 5.B.1. TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED, INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNLESS INFEASIBLE;
     - 5.B.2. PERFORM REGULAR PREVENTATIVE MAINTENANCE ON TANKS AND FUEL LINES;
     - 5.B.3. INSPECT PUMPS, CYLINDERS, HOSES, VALVES, AND OTHER MECHANICAL EQUIPMENT ON-SITE FOR DAMAGE OR DETERIORATION;
     - 5.B.4. DO NOT WASH OR RINSE FUELING AREAS WITH WATER;
     - 5.B.5. MAINTAIN ADEQUATE SUPPLIES TO CLEAN UP DISCHARGED MATERIALS AND PROVIDE AN APPROPRIATE DISPOSAL METHOD FOR RECOVERED SPILLED MATERIALS;
     - 5.B.6. REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINNESOTA STATUTE, SECTION 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE; AND,
     - 5.B.7. MAINTAIN COPIES OF MATERIAL SAFETY DATA SHEETS (MSDS) IN LOCATIONS READILY AVAILABLE TO EMERGENCY RESPONDERS FOR ALL PROJECT HAZARDOUS MATERIALS STORED OR LOCATED ON-SITE.
6. IF VEHICLE AND EQUIPMENT WASHING IS REQUIRED, PROVIDE A VEHICLE WASH STATION IN A DESIGNATED OWNER-APPROVED LOCATION. CONTAIN RUNOFF FROM THE WASHING AREA IN A SEDIMENT BASIN, AND PROPERLY DISPOSE OF WASTE FROM THE WASHING ACTIVITY. PROPERLY USE AND STORE ANY SOAPS, DETERGENTS, OR SOLVENTS ASSOCIATED WITH WASH ACTITIVIES. DO NOT USE ANY DETERGENTS AND OTHER CLEANERS NOT PERMITTED FOR DISCHARGE. (CSW PERMIT ITEMS 2.3 AND 12.8)
7. IF LIQUID AND/OR SOLID WASTES ARE GENERATED BY WASHOUT OPERATIONS (E.G., CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS), PROVIDE EFFECTIVE CONTAINMENT. PREVENT LIQUID AND SOLID WASHOUT WASTES FROM CONTACTING THE GROUND AND PROPERLY DISPOSE OF THESE MATERIALS IN COMPLIANCE WITH MPCA RULES. (CSW PERMIT ITEMS 2.3 AND 12.9)

8.0 PERMANENT COVER AND PERMIT TERMINATION CONDITIONS

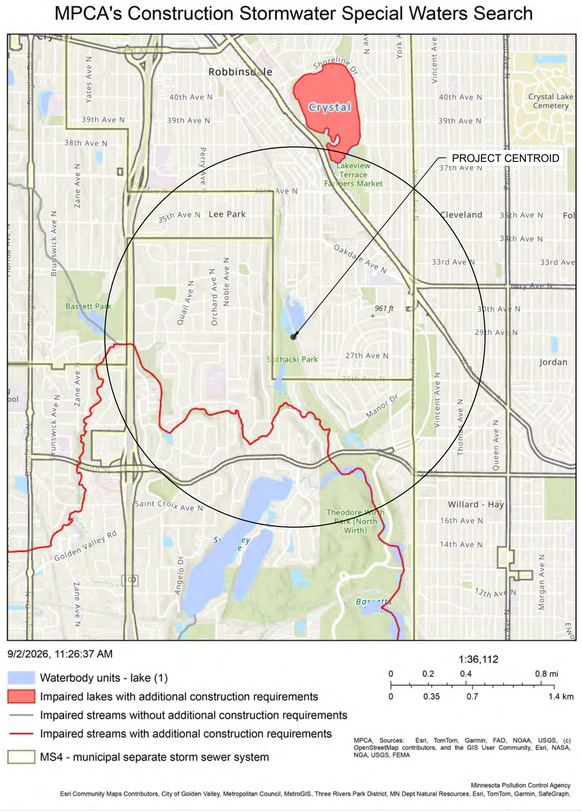
1. STABILIZE ALL AREAS DISTURBED DURING CONSTRUCTION WITH PERMANENT COVER UPON COMPLETION OF THE WORK. PERMANENT COVER MAY BE VEGETATIVE OR NON-VEGETATIVE AND INCLUDE ONE OR A COMBINATION OF ONE OR MORE OF THE FOLLOWING ACTIVITIES: SEEDING, MULCHING, EROSION CONTROL BLANKET, AND/OR APPROVED EQUALS. (CSW PERMIT ITEMS 5.17 AND 13.2)
2. FOR A CONSTRUCTION SITE TO ACHIEVE “PERMANENT COVER”, THE FOLLOWING REQUIREMENTS MUST BE COMPLETED PRIOR TO TERMINATION OF PERMIT COVERAGE (CSW PERMIT SECTIONS 4 AND 13):
   - 2.A. ALL SOIL DISTURBING CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND PERMANENT COVER HAS BEEN INSTALLED OVER ALL AREAS. VEGETATIVE COVER CONSISTS OF UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70% OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION (SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER).
   - 2.B. ANY ACCUMULATED SEDIMENT HAS BEEN REMOVED FROM THE PERMANENT STORMWATER TREATMENT SYSTEM, AND THE SYSTEM IS OPERATING AS DESIGNED.
   - 2.C. ALL SEDIMENT HAS BEEN REMOVED FROM CONVEYANCE SYSTEMS, INCLUDING CULVERTS.
   - 2.D. ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS HAVE BEEN REMOVED. BMPS DESIGNED TO DECOMPOSE ON-SITE MAY BE LEFT IN PLACE.
3. SUBMIT A NOT TO THE MPCA WITHIN 30 DAYS AFTER THE TERMINATION CONDITIONS ARE COMPLETE. WHEN SUBMITTING THE NOT, INCLUDE EITHER GROUND OR AERIAL PHOTOGRAPHS SHOWING THE PERMANENT COVER REQUIREMENTS HAVE BEEN MET.

TABLE 8. BMP MATERIALS SCHEDULE

ITEM DESCRIPTION	UNITS	QTY.	REMOVAL AT END OF PROJECT REQUIRED ?
CONSTRUCTION ENTRANCE/EXIT	EA	[INSERT QTY]	YES
SILT FENCE	LF	[INSERT QTY]	YES
INLET PROTECTION	EA	[INSERT QTY]	YES
STRAW MULCH	AC	[INSERT QTY]	NO
EROSION CONTROL BLANKET	SY	[INSERT QTY]	NO
PERMANENT VEGETATIVE COVER	AC	[INSERT QTY]	NO

NOTE: QTY COLUMN WILL BE UPDATED PER 100% DESIGN PLAN SET.

FIGURE 1. SURFACE WATERS WITHIN 1 MILE OF PROJECT AREA MAP



CONTINUES ON PAGE 4 OF SWPPP.

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PLYMOUTH, MINNESOTA

SOCHACKI PARK WQ IMPROVEMENTS
ROBBINSDALE, MINNESOTA
STORMWATER POLLUTION PREVENTION PLAN
3 OF 4

BARR PROJECT # 2327206000
DWG # G003
REV # A

FIGURE 2. SOIL DATA MAP

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
L50A	Muskego and Houghton soils, 0 to 1 percent slopes	6.8	7.0%
L52C	Urban land-Lester complex, 2 to 18 percent slopes	11.5	11.9%
L52E	Urban land-Lester complex, 18 to 35 percent slopes	32.8	34.0%
L54A	Urban land-Dundas complex, 0 to 3 percent slopes	5.9	6.1%
U1A	Urban land-Udorthents, wet substratum, complex, 0 to 2 percent slopes	12.7	13.2%
U2A	Udorthents, wet substratum, 0 to 2 percent slopes	16.6	17.2%
W	Water	10.2	10.5%
Totals for Area of Interest		**96.4**	**100.0%**

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

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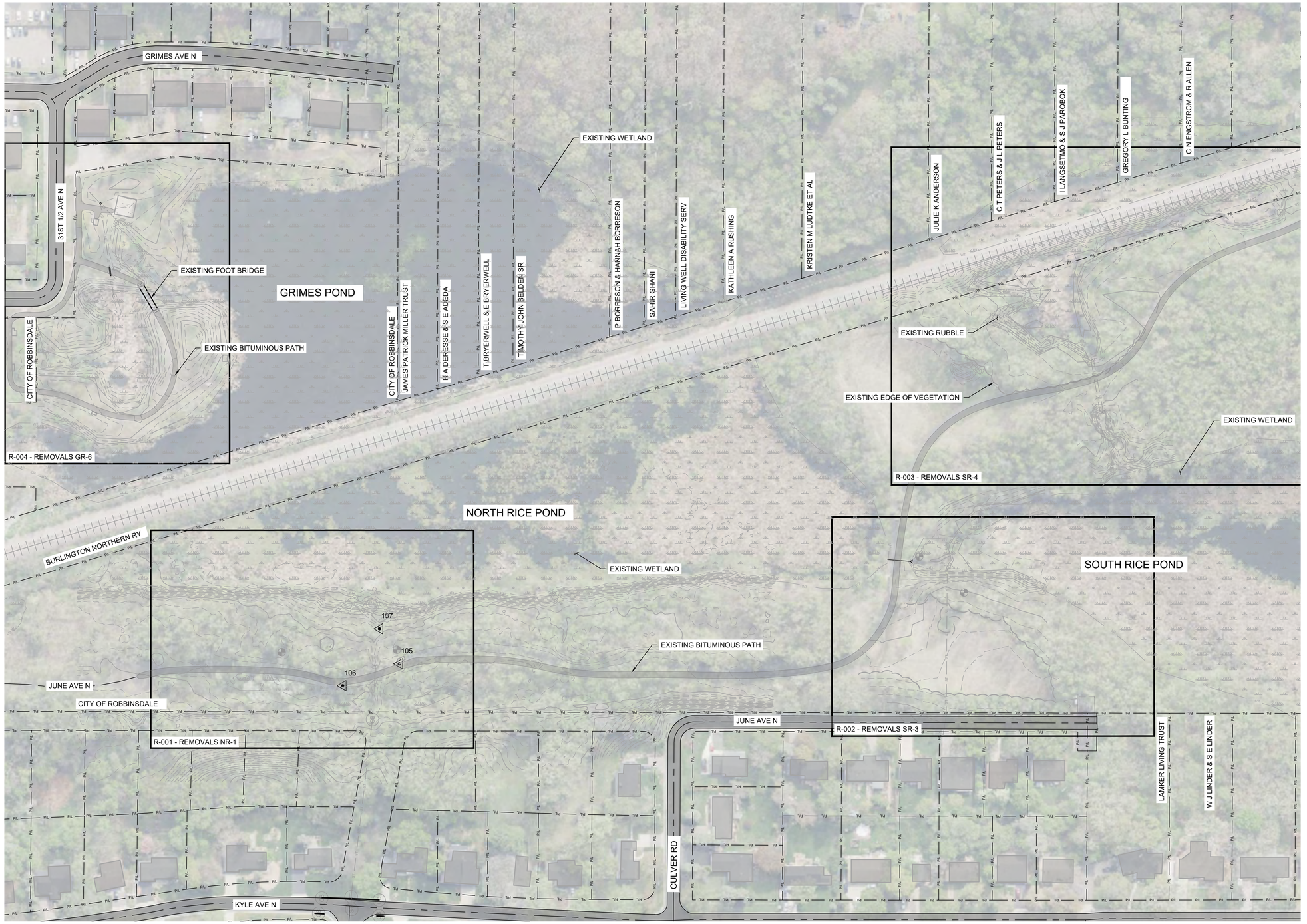
THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WQ IMPROVEMENTS
ROBBINSDALE, MINNESOTA
STORMWATER POLLUTION PREVENTION PLAN
4 OF 4

BARR PROJECT # 2327206000
DWG # G005
REV # A



1 - PLAN: EXISTING CONDITIONS

0 80 160

SCALE IN FEET

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING WETLAND BOUNDARY
- EXISTING STORM SEWER
- PROPERTY LINE
- EXISTING EDGE OF VEGETATION
- EXISTING RAILROAD TRACKS
- EXISTING RUBBLE
- EXISTING WETLAND
- EXISTING STORM MANHOLE
- EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT
- EXISTING CONCRETE

NOTES:

1. XXXX.
2. XXXX.
3.

PRELIMINARY DRAFT
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#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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A	CP	GW	GW	9/10/2026	ISSUED FOR BID

BARR®
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SUITE 200
MINNEAPOLIS, MN 55435
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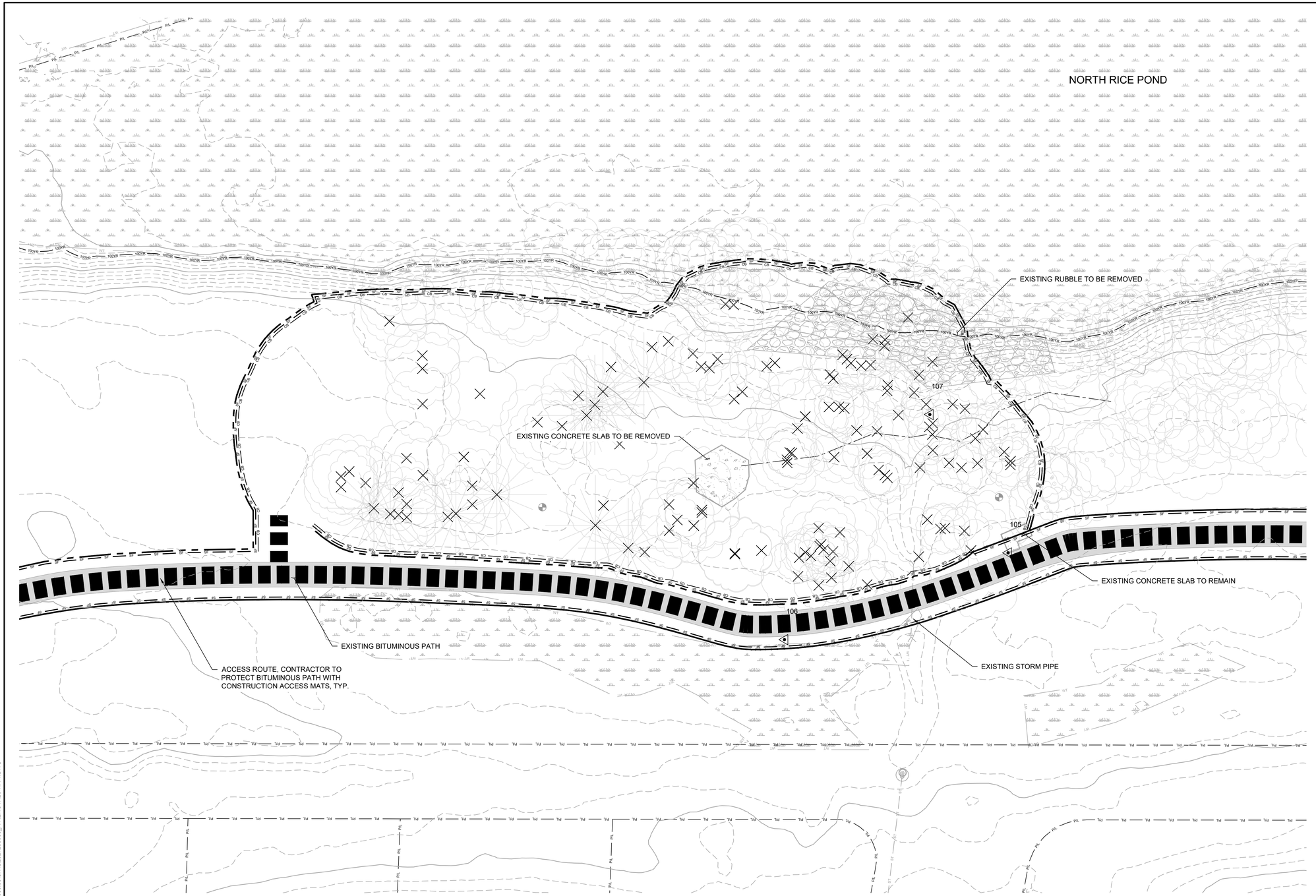
MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

EXISTING CONDITIONS

BARR PROJECT # 2327206000
DWG # C-001
REV # A



1 - PLAN: PROPOSED REMOVALS - AREA NR-1

0 20 40

SCALE IN FEET

N

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- 1380 — EXISTING MAJOR CONTOUR
- 1379 — EXISTING MINOR CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- SF — PROPOSED SILT FENCE
- WT — EXISTING WETLAND BOUNDARY
- ST — EXISTING STORM SEWER
- P/L — PROPERTY LINE
- CB — PROPOSED LINER COVER BOUNDARY
- 100YR — 100 YR FLOOD ELEVATION
- EXISTING EDGE OF VEGETATION
- PROPOSED CONSTRUCTION ACCESS
- EXISTING RUBBLE
- EXISTING WETLAND
- ST — EXISTING STORM MANHOLE
- CB — EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT
- CONIFEROUS TREE TO BE REMOVED
- DECIDUOUS TREE TO BE REMOVED
- EXISTING CONCRETE

NOTES:

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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-	-	-	-	-	-
A	CP	GW	GW	9/10/2026	ISSUED FOR BID

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THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

REMOVALS NR-1

BARR PROJECT # 2327206000
DWG # R-001
REV # A

NORTH RICE POND

SOUTH RICE POND

EXISTING 36 IN. CPEP

EXISTING 36 IN. RCP

EXISTING 18 IN. CMP

EXISTING EDGE OF VEGETATION

ACCESS ROUTE, CONTRACTOR TO PROTECT BITUMINOUS PATH WITH CONSTRUCTION ACCESS MATS, TYP.

JUNE AVE N

1 - PLAN: PROPOSED REMOVALS - AREA SR-3

0 10 20

SCALE IN FEET

N

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- PROPOSED SILT FENCE
- EXISTING WETLAND BOUNDARY
- EXISTING STORM SEWER
- PROPERTY LINE
- PROPOSED LINER COVER BOUNDARY
- 100 YR FLOOD ELEVATION
- EXISTING EDGE OF VEGETATION
- PROPOSED CONSTRUCTION ACCESS
- EXISTING RUBBLE
- EXISTING WETLAND
- EXISTING STORM MANHOLE
- EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT
- CONIFEROUS TREE TO BE REMOVED
- DECIDUOUS TREE TO BE REMOVED

NOTES:

1. XXXX.
2. XXXX.
3.

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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-	-	-	-	-	-
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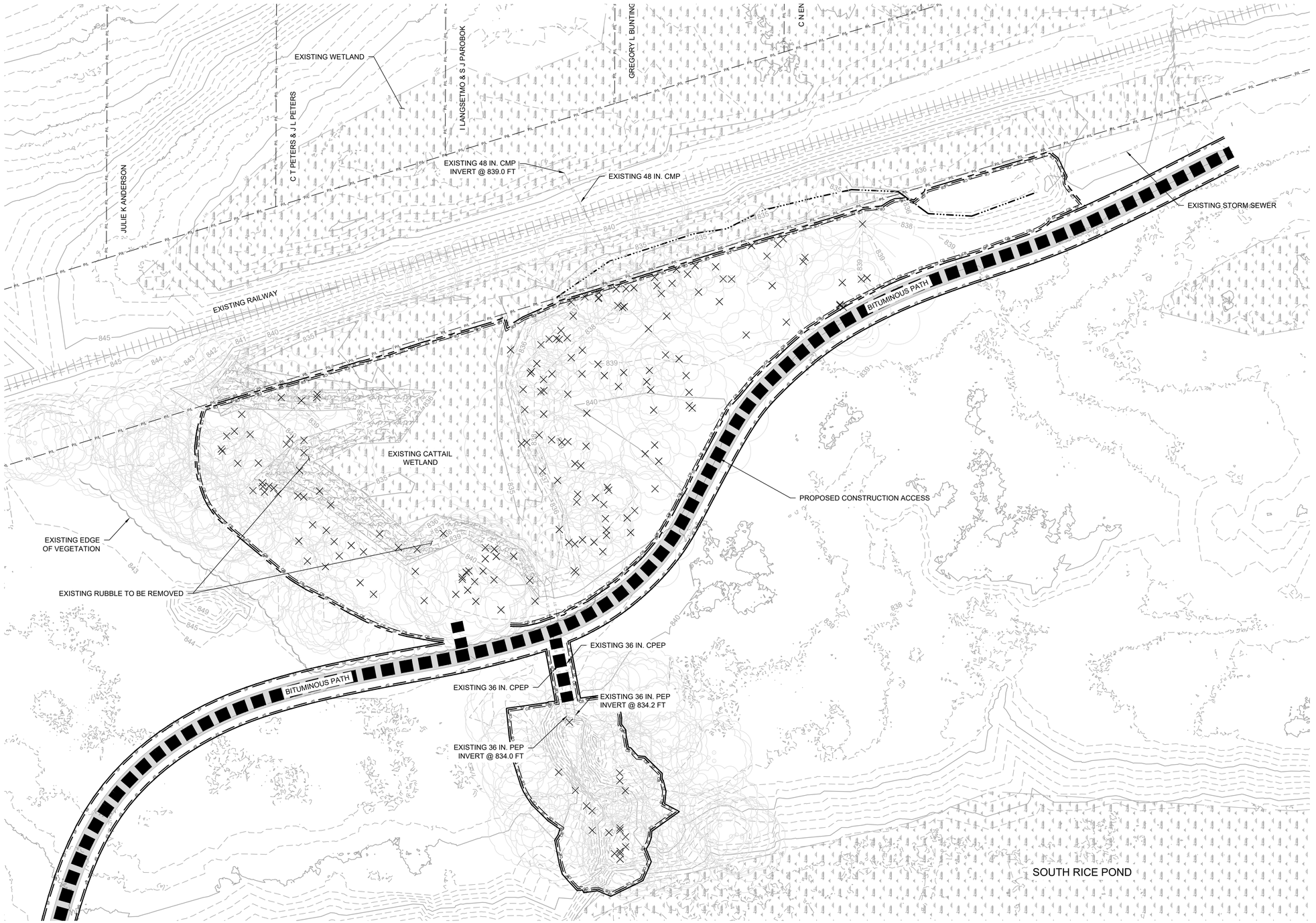
THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

REMOVALS SR-3

BARR PROJECT # 2327206000
DWG # R-002
REV # A



1 - PLAN: PROPOSED REMOVALS - AREA SR-4

0 30 60

SCALE IN FEET

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- PROPOSED SILT FENCE
- EXISTING WETLAND BOUNDARY
- EXISTING STORM SEWER
- PROPERTY LINE
- PROPOSED LINER COVER BOUNDARY
- 100 YR FLOOD ELEVATION
- EXISTING EDGE OF VEGETATION
- PROPOSED CONSTRUCTION ACCESS
- EXISTING RUBBLE
- EXISTING WETLAND
- EXISTING STORM MANHOLE
- EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT
- CONIFEROUS TREE TO BE REMOVED
- DECIDUOUS TREE TO BE REMOVED
- EXISTING RAILROAD TRACKS

NOTES:

1. XXXX.
2. XXXX.
3.

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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-	-	-	-	-	-
A	CP	GW	GW	9/10/2026	ISSUED FOR BID

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THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

REMOVALS SR-4

BARR PROJECT # 2327206000
DWG # R-003
REV # A

BITUMINOUS PATH

CITY OF ROBBINSDALE

BITUMINOUS PATH

31ST 1/2 AVE N

EXISTING ROAD CENTERLINE

BITUMINOUS PATH

ACCESS ROUTE, CONTRACTOR TO PROTECT BITUMINOUS PATH WITH CONSTRUCTION ACCESS MATS, TYP.

REMOVE AND REPLACE EXISTING CONCRETE PIPE

EXISTING CONCRETE TO BE REMOVED

EXISTING CONCRETE TO REMAIN

PROPOSED BMP OUTLET LOCATION

EXISTING PEDESTRIAN BRIDGE

BITUMINOUS PATH

GRIMES POND

1 / - PLAN: PROPOSED REMOVALS - AREA GR-6

0 20 40

SCALE IN FEET

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- 1380 — EXISTING MAJOR CONTOUR
- 1379 — EXISTING MINOR CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- SF — PROPOSED SILT FENCE
- WT — EXISTING WETLAND BOUNDARY
- ST — EXISTING STORM SEWER
- P/L — PROPERTY LINE
- CB — PROPOSED LINER COVER BOUNDARY
- 100YR — 100 YR FLOOD ELEVATION
- EXISTING EDGE OF VEGETATION
- PROPOSED CONSTRUCTION ACCESS
- EXISTING RUBBLE
- EXISTING WETLAND
- ST — EXISTING STORM MANHOLE
- CB — EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT
- CONIFEROUS TREE TO BE REMOVED
- DECIDUOUS TREE TO BE REMOVED
- EXISTING CONCRETE

NOTES:

1. XXXX.
2. XXXX.
3.

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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A	CP	GW	GW	9/10/2026	ISSUED FOR BID

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THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

REMOVALS GR-6

BARR PROJECT # 2327206000
DWG # R-004
REV # A

TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE (X) or Protect (P)
1	Maple/Silver	9		
2	Fir	6		
3	Maple/Cultivar	14		
4	Fir	6		
5	Fir	6		
6	Ash/Green	16		
7	Maple/Cultivar	16		
8	Oak/Swamp White	9		
9	Maple/Silver	9		
10	Maple/Silver	23		
11	Walnut/Black	6		
12	Ash/Green	13		
13	Ash/Black	9		
14	Ash/Green	11		
15	Ash/Green	9		
16	Maple/Silver	6		
17	Willow/Black	25		
18	Ash/Black	10		
19	Ash/Green	5		
20	Maple/Silver	13		
21	Ash/Green	5		
22	Elm/American	7		
23	Elm/American	6		
24	Elm/American	13		
25	Elm/American	6		
26	Elm/American	6		
27	Elm/American	7		
28	Elm/American	12		
29	Willow/Black	10		
30	Ash/Green	5		
31	Ash/Green	11		
32	Ash/Green	5		
33	Ash/Green	5		
34	Elm/American	10		
35	Walnut/Black	13		
36	Walnut/Black	18		
37	Ash/Green	6		
38	Cottonwood	10		
39	Cottonwood	18		
40	Cottonwood	18		
41	Cottonwood	8		
42	Cottonwood	16		
43	Cottonwood	16		
44	Ash/Green	5		
45	Willow/Black	13		
46	Catalpa	8		
47	Ash/Green	6		
48	Ash/Green	7		
49	Walnut/Black	11		
50	Ash/Green	5		
51	Ash/Green	6		
52	Ash/Green	8		
53	Ash/Green	6		
54	Walnut/Black	5		
55	Ash/Green	13		
56	Ash/Green	7		
57	Ash/Green	6		
58	Ash/Green	5		
59	Ash/Green	5		
60	Ash/Green	8		
61	Ash/Green	6		
62	Ash/Green	6		
63	Ash/Green	6		
64	Walnut/Black	5		
65	Ash/Green	6		
66	Ash/Green	10		
67	Walnut/Black	5		
68	Cottonwood	8		
69	Cottonwood	10		
70	Cottonwood	6		
71	Walnut/Black	9		
72	Cottonwood	9		
73	Ash/Green	6		
74	Cottonwood	7		
75	Cottonwood	17		
76	Cottonwood	5		
77	Ash/Green	6		
78	Ash/Green	6		
79	Walnut/Black	8		
80	Ash/Green	6		
81	Ash/Green	6		
82	Ash/Green	5		
83	Ash/Green	8		
84	Ash/Green	8		
85	Walnut/Black	6		
86	Elm/American	7		
87	Ash/Green	6		
88	Ash/Green	7		
89	Ash/Green	5		
90	Willow/Black	9		
91	Ash/Green	6		
92	Ash/Green	8		
93	Mulberry	11		
94	Mulberry	8		
95	Walnut/Black	6		
96	Ash/Green	6		
97	Ash/Green	5		
98	Ash/Green	8		
99	Ash/Green	8		
100	Box Elder	12		
115	Box Elder	12		
116	Walnut/Black	9		
117	Ash/Green	15		
118	Box Elder	15		
119	Box Elder	10		
121	Box Elder	7		
122	Box Elder	7		
123	Walnut/Black	6		
124	Ash/Green	10		
125	Maple/Silver	5		
126	Ash/Green	11		
127	Ash/Green	8		
128	Ash/Green	9		
129	Walnut/Black	6		
130	Walnut/Black	5		
131	Maple/Silver	13		
132	Box Elder	6		
133	Willow/Black	9		
134	Willow/Black	8		
135	Willow/Black	16		
136	Walnut/Black	6		
137	Walnut/Black	6		
138	Willow/Black	15		
139	Ash/Green	6		
140	Ash/Green	5		
141	Walnut/Black	10		
142	Walnut/Black	7		
143	Walnut/Black	9		
144	Ash/White	5		
145	Ash/Green	5		
146	Walnut/Black	10		
147	Box Elder	6		
148	Walnut/Black	7		
149	Ash/Green	6		
150	Ash/Green	6		
151	Maple/Silver	6		
152	Elm/American	8		
153	Box Elder	7		
154	Ash/Green	11		
155	Walnut/Black	6		
156	Maple/Silver	13		
157	Walnut/Black	6		
158	Maple/Silver	10		
159	Walnut/Black	10		
160	Box Elder	9		
161	Ash/Green	6		
162	Maple/Silver	6		
163	Maple/Silver	18		
164	Ash/Green	6		
165	Walnut/Black	9		
166	Basswood/American	16		
167	Walnut/Black	7		
168	Walnut/Black	8		
169	Cottonwood	25		
170	Cottonwood	28		
171	Cottonwood	23		
172	Willow/Black	13		
173	Cottonwood	6		
174	Cottonwood	28		
175	Elm/American	8		
176	Basswood/American	12		
177	Ash/Green	13		
178	Oak/Swamp White	4		
179	Ash/Green	13		
180	Ash/Green	12		
181	Cottonwood	22		
182	Ash/Green	6		
183	Ash/Green	6		
184	Olive/Russian	15		
185	Olive/Russian	13		
186	Elm/American	12		
187	Cottonwood	23		
188	Cottonwood	6		
189	Cottonwood	6		
190	Ash/Green	6		
191	Cottonwood	23		
192	Cottonwood	15		
193	Cottonwood	6		
194	Willow/Black	6		
195	Willow/Black	6		
196	Willow/Black	17		
197	Ash/Green	9		
198	Willow/Black	7		
199	Elm/American	9		
200	Willow/Black	12		
201	Elm/American	6		
202	Cottonwood	17		
203	Ash/Green	9		
204	Black Locust	7		
205	Ash/Green	8		
206	Black Locust	5		
207	Black Locust	8		
208	Box Elder	7		
209	Black Locust	7		
210	Ash/Green	11		
211	Ash/Green	10		
212	Ash/Green	15		
213	Black Locust	7		
214	Black Locust	7		
215	Ash/Green	6		
216	Ash/Green	6		
217	Black Locust	16		
218	Black Locust	18		
219	Black Locust	14		
220	Black Locust	9		
221	Box Elder	6		
222	Box Elder	7		
223	Box Elder	8		
224	Box Elder	8		
225	Black Locust	9		
226	Black Locust	9		
227	Black Locust	13		
228	Black Locust	14		
229	Black Locust	9		
230	Box Elder	9		
231	Box Elder	7		
232	Box Elder	6		
233	Black Locust	7		
234	Elm/American	9		
235	Box Elder	8		
236	Box Elder	9		
237	Black Locust	7		
238	Black Locust	6		
239	Black Locust	7		
240	Black Locust	8		
241	Black Locust	7		
242	Box Elder	10		
243	Box Elder	6		
244	Walnut/Black	8		
245	Ash/Green	12		
246	Ash/Green	6		
247	Ash/Green	10		
248	Elm/American	13		
249	Box Elder	8		
250	Box Elder	18		
251	Box Elder	16		
252	Box Elder	12		
253	Box Elder	6		
254	Willow/Black	30		
255	Cottonwood	26		
256	Cottonwood	30		
257	Elm/American	9		
258	Cottonwood	30		
259	Box Elder	6		
260	Box Elder	12		
261	Box Elder	12		
262	Box Elder	15		
263	Elm/American	9		
264	Ash/Green	10		
265	Ash/Green	12		
266	Maple/Silver	10		
267	Ash/Green	12		
268	Apple	8		
269	Apple	7		
270	Walnut/Black	14		
271	Basswood/American	16		
272	Basswood/American	10		
273	Basswood/American	10		
274	Box Elder	10		
275	Box Elder	10		
276	Buckthorn	6		
277	Elm/Siberian	6		
278	Ash/Green	6		
279	Elm/Siberian	9		
280	Elm/Siberian	7		
281	Elm/Siberian	5		
282	Ash/Green	10		
283	Box Elder	6		
284	Ash/Green	6		
285	Ash/Green	6		
286	Ash/Green	7		
287	Ash/Green	6		
288	Ash/Green	5		
289	Ash/Green	6		
290	Elm/American	12		
291	Ash/Green	6		
292	Ash/Green	6		
293	Mulberry	6		
294	Aspen	5		
295	Elm/Siberian	6		
296	Box Elder	8		
297	Box Elder	12		
298	Box Elder	11		
299	Box Elder	11		X
300	Elm/American	11		X
301	Box Elder	13		
302	Box Elder	19		
303	Box Elder	20		
304	Elm/Siberian	5		
305	Walnut/Black	12		
306	Cottonwood	19		
307	Cottonwood	35		
308	Box Elder	5		
309	Box Elder	6		
310	Ash/Green	6		X
311	Cottonwood	22		X
312	Cottonwood	25		X
313	Box Elder	10		X
314	Cottonwood	33		
315	Cottonwood	25		X
316	Hackberry	6		X
317	Box Elder	7		X
318	Box Elder	6		X
319	Ash/Green	6		X
320	Box Elder	10		X
321	Hackberry	4		X
322	Box Elder	12		X
323	Cottonwood	29		X
324	Cottonwood	33		X
325	Cottonwood	20		X
326	Box Elder	6		X
327	Box Elder	6		X
328	Cottonwood	8		X
329	Cottonwood	10		X
330	Box Elder	8		X
331	Box Elder	7		X
332	Ash/Green	9		X
333	Cottonwood	13		X
334	Ash/Green	8		X
335	Cottonwood	16		
336	Cottonwood	12		
337	Cottonwood	15		X
338	Elm/American	6		
339	Box Elder	7		
340	Cottonwood	22		
341	Cottonwood	21		
342	Walnut/Black	13		
343	Walnut/Black	8		
344	Oak/Swamp White	7		

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

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-	-	-	-	-	-
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-	-	-	-	-	-
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-	-	-	-	-	-
A	BHD	GW	GW	9/10/2026	ISSUED FOR BID

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MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

TREE REMOVAL TABLES 1 OF 4

BARR PROJECT # 2327206000
DWG # R-005
REV # A

345	Ash/Green	7		
346	Ash/Green	6		
347	Ash/Green	8		
348	Box Elder	11		
349	Box Elder	6		
350	Box Elder	6		
351	Apple	9		
352	Box Elder	8		
353	Box Elder	10		
354	Apple	6		
355	Apple	10		
356	Elm/American	9		
357	Box Elder	7		
358	Mulberry	7		X
359	Elm/American	6		X
360	Box Elder	6		X
361	Walnut/Black	9		X
362	Ash/Green	6		X
363	Ash/Green	10		X
364	Ash/Green	9		X
365	Box Elder	7		X
366	Ash/Black	7		
367	Box Elder	8		
368	Apple	6		
369	Ash/Black	6		
370	Ash/Black	5		
371	Elm/American	12		
372	Elm/Siberian	6		
373	Walnut/Black	6		
374	Walnut/Black	6		
375	Walnut/Black	6		
376	Elm/American	9		X
377	Mulberry	7		X
378	Elm/American	8		X
379	Box Elder	6		X
380	Cottonwood	31		X
381	Box Elder	6		X
382	Elm/American	9		X
383	Box Elder	9		X
384	Cottonwood	38		X
385	Elm/Siberian	5		X
386	Cottonwood	16		X
387	Cottonwood	28		X
388	Cottonwood	25		X
389	Cottonwood	22		X
390	Cottonwood	23		X
391	Cottonwood	25		X
392	Cottonwood	28		X
393	Ash/Green	9		X
394	Cottonwood	18		X
395	Mulberry	12		X
396	Ash/Green	6		X
397	Ash/Green	6		X
398	Mulberry	7		X
399	Mulberry	6		X
400	Elm/American	14		X
401	Ash/Black	6		X
402	Elm/Siberian	5		X
403	Cottonwood	18		X
404	Mulberry	6		X
405	Box Elder	20		X
406	Box Elder	8		X
407	Box Elder	11		X
408	Box Elder	6		X
409	Box Elder	13		X
410	Box Elder	7		X
411	Box Elder	13		X
412	Box Elder	11		X
413	Elm/American	7		X

414	Elm/American	5		X
415	Walnut/Black	11		X
416	Elm/American	6		X
417	Elm/Siberian	10		X
418	Elm/Siberian	12		X
419	Elm/Siberian	12		X
420	Elm/American	6		X
421	Elm/Siberian	5		X
422	Cottonwood	12		X
423	Cottonwood	25		X
424	Elm/Siberian	15		X
425	Cottonwood	28		X
426	Elm/Siberian	7		X
427	Elm/American	6		X
428	Elm/American	10		X
429	Elm/Siberian	10		X
430	Elm/American	11		X
431	Box Elder	6		X
432	Box Elder	7		X
433	Elm/Siberian	14		X
434	Elm/American	5		X
435	Ash/Green	6		X
436	Box Elder	9		X
437	Elm/Siberian	6		X
438	Maple/Silver	6		X
439	Cottonwood	25		X
440	Box Elder	8		X
441	Ash/Green	7		X
442	Elm/Siberian	8		X
443	Box Elder	6		X
444	Buckthorn	5		X
445	Box Elder	10		X
446	Buckeye	9		X
447	Box Elder	8		X
448	Box Elder	5		X
449	Walnut/Black	6		X
450	Box Elder	10		X
451	Elm/Siberian	14		X
452	Box Elder	7		X
453	Box Elder	10		X
454	Cottonwood	33		X
455	Cottonwood	20		X
456	Box Elder	12		X
457	Box Elder	6		X
458	Elm/Siberian	6		X
459	Ash/Green	8		X
460	Box Elder	4		X
461	Elm/Siberian	14		X
462	Box Elder	6		X
463	Ash/Green	9		X
464	Ash/Green	6		X
465	Elm/American	6		X
466	Ash/Green	7		X
467	Ash/Green	6		
468	Ash/Green	6		
469	Ash/Green	9		
470	Ash/Green	10		X
471	Ash/Green	7		X
472	Ash/Green	6		X
473	Ash/Black	12		X
474	Ash/Green	10		X
475	Ash/Black	6		X
476	Box Elder	7		X
477	Ash/Black	6		X
478	Buckthorn	5		X
479	Ash/Black	5		X
480	Ash/Green	7		X
481	Box Elder	8		X
482	Box Elder	8		X

483	Buckthorn	6		X
484	Buckthorn	6		X
485	Box Elder	6		X
486	Box Elder	7		X
487	Buckthorn	7		X
488	Buckthorn	6		X
489	Ash/Black	8		X
490	Ash/Green	14		X
491	Box Elder	15		X
492	Box Elder	8		X
493	Ash/Green	5		X
494	Mulberry	10		X
495	Walnut/Black	8		X
496	Ash/Green	6		X
497	Ash/Green	6		
498	Hackberry	8		X
499	Ash/Green	7		X
500	Ash/Green	5		X
501	Ash/Green	5		X
502	Ash/Green	6		X
503	Cottonwood	30		X
504	Ash/Green	8		X
505	Cottonwood	38		X
506	Ash/Green	6		X
507	Ash/Green	6		X
508	Elm/American	8		X
509	Ash/Green	10		X
510	Ash/Green	13		X
511	Mulberry	12		X
512	Mulberry	8		X
513	Ash/Green	11		
514	Elm/American	13		
515	Cedar/Red	7		X
516	Elm/American	7		X
517	Cottonwood	35		X
518	Elm/Siberian	13		X
519	Cottonwood	18		X
520	Cottonwood	11		X
521	Apple	12		X
522	Walnut/Black	10		X
523	Walnut/Black	6		X
525	Ash/Green	6		
526	Box Elder	8		
527	Ash/Green	7		
528	Ash/Green	12		
529	Ash/Green	6		
530	Ash/Green	6		
531	Elm/Siberian	8		
532	Elm/Siberian	7		
533	Ash/Green	8		
534	Elm/Siberian	6		
535	Elm/Siberian	12		
536	Ash/Green	6		
537	Cedar/White	8		
538	Ash/Green	8		
539	Elm/Siberian	13		
540	Cedar/Red	9		
541	Elm/Siberian	6		
542	Elm/Siberian	8		
543	Elm/Siberian	8		
544	Elm/Siberian	6		
545	Elm/Siberian	7		
546	Elm/Siberian	6		
547	Fir	8		
548	Elm/American	6		
549	Elm/American	12		
550	Walnut/Black	10		
551	Cedar/Red	8		
552	Elm/Siberian	18		

553	Fir	7		
554	Ash/Green	6		
555	Ash/Green	7		
556	Elm/Siberian	8		
557	Elm/Siberian	6		
558	Elm/Siberian	6		
559	Elm/Siberian	6		
560	Elm/Siberian	7		
561	Ash/Green	7		
562	Elm/Siberian	6		
563	Elm/Siberian	7		
564	Cedar/Red	8		
565	Cedar/Red	8		
566	Elm/Siberian	6		
567	Cedar/Red	7		
568	Buckthorn	7		
569	Elm/Siberian	6		
570	Ash/Green	7		
571	Ash/Green	8		
572	Elm/Siberian	6		
573	Elm/Siberian	7		
574	Elm/Siberian	10		
575	Elm/Siberian	7		
576	Elm/Siberian	6		
577	Cedar/White	4		
578	Elm/Siberian	12		
579	Elm/Siberian	7		
580	Elm/Siberian	6		
581	Elm/Siberian	6		
582	Elm/Siberian	7		
583	Elm/Siberian	7		
584	Elm/Siberian	7		
585	Elm/Siberian	6		
586	Elm/Siberian	7		
587	Elm/Siberian	10		
588	Elm/Siberian	8		
589	Elm/Siberian	11		
590	Elm/Siberian	6		
591	Elm/Siberian	6		
592	Elm/Siberian	8		
593	Elm/Siberian	8		
594	Cedar/Red	5		
595	Elm/Siberian	10		
596	Elm/Siberian	6		
597	Elm/Siberian	7		
598	Ash/Green	6		
599	Elm/Siberian	6		
600	Elm/Siberian	8		
601	Elm/Siberian	9		
602	Elm/Siberian	6		
603	Elm/Siberian	6		
604	Elm/Siberian	6		
605	Elm/Siberian	5		
606	Elm/Siberian	9		
607	Ash/Green	9		
608	Elm/American	6		
609	Elm/Siberian	7		
610	Elm/Siberian	7		
611	Elm/Siberian	6		
612	Elm/Siberian	6		
613	Elm/American	7		
614	Elm/Siberian	10		
615	Elm/Siberian	6		
616	Walnut/Black	6		
617	Elm/Siberian	6		
618	Elm/Siberian	11		
619	Ash/Green	9		
620	Cedar/Red	5		
621	Elm/Siberian	10		

622	Elm/Siberian	6		
623	Elm/Siberian	8		
624	Elm/Siberian	6		
625	Elm/Siberian	7		
626	Buckthorn	5		
627	Elm/Siberian	8		
628	Elm/Siberian	8		
629	Elm/Siberian	11		
630	Elm/Siberian	13		
631	Elm/American	11		
632	Walnut/Black	6		
633	Walnut/Black	7		
634	Ash/Green	7		
635	Elm/Siberian	6		
636	Elm/Siberian	6		
637	Elm/American	8		
638	Elm/Siberian	8		
639	Buckthorn	7		
640	Elm/Siberian	7		
641	Elm/Siberian	6		
642	Elm/Siberian	13		
643	Elm/Siberian	13		
644	Elm/Siberian	12		
645	Elm/Siberian	6		
646	Buckthorn	6		
647	Elm/Siberian	6		
648	Elm/Siberian	15		
649	Elm/Siberian	6		
650	Elm/Siberian	7		
651	Ash/Green	6		
652	Fir	8		
653	Elm/Siberian	6		
654	Elm/Siberian	6		
655	Elm/American	7		
656	Elm/Siberian	6		
657	Elm/Siberian	7		
658	Elm/Siberian	8		
659	Elm/Siberian	9		
660	Elm/Siberian	9		
661	Elm/American	9		
662	Elm/American	8		
663	Ash/Green	7		
664	Ash/Green	7		
665	Ash/Green	7		
666	Ash/Green	12		
667	Elm/American	8		
668	Box Elder	8		
669	Ash/Green	8		
670	Ash/Green	6		
671	Ash/Green	7		
672	Ash/Green	8		
673	Elm/Siberian	6		
674	Cottonwood	26		
675	Ash/White	8		
676	Cottonwood	25		
677	Cottonwood	13		
678	Ash/Green	6		
679	Buckeye	7		
680	Box Elder	6		
681	Box Elder	6		
682	Cottonwood	13		
683	Cottonwood	13		
684	Cottonwood	12		
685	Elm/Siberian	5		
686	Cottonwood	15		
687	Cottonwood	7		
688	Cottonwood	13		
689	Cottonwood	16		
690	Cottonwood	9		

691	Cottonwood	13		
692	Elm/Siberian	11		
693	Cottonwood	16		
694	Cottonwood	13		
695	Ash/Green	13		
696	Ash/Green	6		X
697	Ash/Green	6		
698	Box Elder	8		X
699	Cottonwood	13		X
700	Box Elder	8		
701	Box Elder	7		
702	Box Elder	6		
703	Cedar/Red	14		X
704	Cedar/Red	8		X
705	Elm/Siberian	11		

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
A	BHD	GW	GW	9/10/2026	ISSUED FOR BID

BARR®
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435
PH: 1-800-632-2277
WWW.BARR.COM
MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

TREE REMOVAL TABLES 2 OF 4

BARR PROJECT # 2327206000
DWG # R-006
REV # A

706	Elm/Siberian	7		
707	Elm/Siberian	11		
708	Elm/American	8		X
709	Elm/American	6		X
710	Cottonwood	24		X
711	Cottonwood	20		X
712	Ash/Green	7		
713	Cottonwood	22		
714	Elm/American	8		
715	Willow/Black	13		
716	Willow/Black	15		
717	Willow/Black	15		
718	Ash/Green	4		X
719	Cottonwood	22		
720	Cottonwood	22		
721	Cottonwood	23		
722	Buckthorn	6		
723	Buckthorn	6		
724	Cottonwood	25		
725	Cottonwood	12		
726	Ash/Green	13		
727	Ash/Green	8		
728	Box Elder	8		X
729	Ash/Green	8		
730	Ash/Green	7		X
731	Ash/Green	7		X
732	Ash/Green	6		X
733	Cottonwood	22		
734	Elm/Siberian	8		
735	Cottonwood	18		
736	Ash/Green	8		
737	Ash/Green	7		X
738	Box Elder	7		X
739	Elm/American	9		X
740	Elm/American	11		X
741	Box Elder	8		X
742	Cottonwood	15		X
743	Cottonwood	13		X
744	Ash/Green	8		X
745	Apple	8		X
746	Box Elder	10		X
747	Elm/Siberian	11		X
748	Cottonwood	24		X
749	Ash/Green	7		X
750	Ash/Green	7		X
751	Ash/Green	6		X
752	Ash/Green	7		X
753	Ash/Green	7		X
754	Box Elder	9		X
755	Ash/Green	8		X
756	Cottonwood	17		X
757	Elm/American	9		X
758	Cottonwood	10		X
759	Cottonwood	20		X
760	Cottonwood	10		X
761	Cottonwood	11		X
762	Cottonwood	11		X
763	Cottonwood	10		X
764	Cottonwood	18		X
765	Elm/American	18		X
766	Cottonwood	11		X
767	Box Elder	13		X
768	Ash/Green	13		X
769	Ash/Green	11		X
770	Cottonwood	22		X
771	Cottonwood	22		X
772	Elm/American	8		
773	Elm/American	9		
774	Elm/American	13		

775	Cottonwood	13		
776	Elm/American	6		
777	Elm/American	7		
778	Ash/Green	10		
779	Ash/Green	7		
780	Ash/Green	9		
781	Elm/American	8		
782	Cottonwood	15		
783	Cottonwood	11		
784	Elm/American	6		
785	Cottonwood	13		
786	Cottonwood	13		
787	Elm/American	14		
788	Cottonwood	11		
789	Box Elder	8		X
790	Ash/Green	8		X
791	Buckthorn	6		X
792	Elm/American	9		X
793	Cottonwood	10		X
794	Buckthorn	6		X
795	Cottonwood	10		
796	Elm/American	9		
797	Cottonwood	12		X
798	Aspen	12		X
799	Cottonwood	7		
800	Cottonwood	9		
801	Cottonwood	7		
802	Cottonwood	17		
803	Cottonwood	11		X
804	Cottonwood	13		X
805	Cottonwood	12		X
806	Cottonwood	12		X
807	Elm/American	11		
808	Elm/American	6		
809	Cottonwood	17		X
810	Cottonwood	16		X
811	Cottonwood	21		X
812	Buckthorn	6		X
813	Ash/Green	6		X
814	Cottonwood	7		X
815	Cottonwood	14		
816	Aspen	7		X
817	Cottonwood	13		X
818	Ash/Green	7		
819	Elm/Siberian	8		X
820	Cottonwood	9		X
821	Cottonwood	6		X
822	Cottonwood	13		X
823	Cottonwood	8		X
824	Cottonwood	6		X
825	Elm/American	8		X
826	Cottonwood	14		X
827	Cottonwood	18		X
828	Ash/Green	6		X
829	Elm/American	14		X
830	Elm/American	11		X
831	Cottonwood	13		X
832	Cottonwood	9		X
833	Cottonwood	19		X
834	Ash/Green	7		X
835	Cottonwood	15		X
836	Elm/American	9		X
837	Buckthorn	7		X
838	Ash/Green	7		X
839	Cottonwood	27		X
840	Ash/Green	7		X
841	Ash/Green	7		X
842	Cottonwood	24		X
843	Ash/Green	6		X

844	Ash/Green	6		X
845	Buckthorn	6		X
846	Cottonwood	9		X
847	Elm/American	15		X
848	Cottonwood	16		X
849	Cottonwood	12		X
850	Cottonwood	11		X
851	Cottonwood	25		X
852	Buckthorn	6		X
853	Ash/Green	6		X
854	Elm/American	6		X
855	Cottonwood	9		X
856	Cottonwood	18		X
857	Cottonwood	18		X
858	Buckthorn	6		X
859	Elm/Siberian	14		X
860	Ash/Green	6		X
861	Ash/Green	6		X
862	Buckthorn	6		X
863	Cottonwood	16		
864	Cottonwood	15		
865	Cottonwood	23		
866	Ash/Green	8		
867	Cottonwood	14		
868	Willow/Black	18		
869	Willow/Black	19		
870	Aspen	15		
871	Elm/American	6		
872	Box Elder	6		
873	Aspen	6		
874	Aspen	6		
875	Aspen	6		
876	Box Elder	10		
877	Willow/Black	35		
878	Cottonwood	18		
879	Cottonwood	8		
880	Ash/Green	6		
881	Walnut/Black	10		
882	Elm/American	8		
883	Cottonwood	16		X
884	Cottonwood	13		X
885	Cottonwood	7		X
886	Cottonwood	16		X
887	Cottonwood	16		X
888	Cottonwood	17		X
889	Cottonwood	16		
890	Cottonwood	18		
891	Cottonwood	15		
892	Ash/Green	5		
893	Box Elder	9		X
894	Cottonwood	16		X
895	Cottonwood	11		X
896	Elm/American	7		X
897	Cottonwood	16		X
898	Cottonwood	18		X
899	Cottonwood	17		X
900	Cottonwood	16		X
901	Cottonwood	7		X
902	Cottonwood	10		X
903	Ash/Green	8		X
904	Elm/American	13		
905	Box Elder	7		
906	Elm/American	6		
907	Box Elder	8		
908	Box Elder	7		
909	Box Elder	8		
910	Elm/American	5		
911	Buckthorn	8		X
912	Box Elder	7		X

913	Ash/Green	5		X
914	Ash/Green	8		X
915	Box Elder	7		X
916	Box Elder	6		X
917	Ash/Green	6		X
918	Ash/Green	6		
919	Box Elder	13		
920	Ash/Green	7		
921	Ash/Green	6		
922	Ash/Green	6		
923	Ash/Green	6		
924	Cottonwood	19		
925	Box Elder	6		
926	Buckthorn	6		
927	Box Elder	8		
928	Elm/American	7		X
929	Elm/American	8		
930	Elm/American	7		
931	Ash/Green	12		
932	Cottonwood	21		
933	Cottonwood	14		
934	Ash/Green	6		
935	Elm/American	14		
936	Willow/Black	11		
937	Willow/Black	7		
938	Ash/Green	6		
939	Buckthorn	6		
940	Birch/Paper	13		
941	Birch/Paper	13		
942	Birch/Paper	12		X
943	Elm/American	7		
944	Buckthorn	6		
945	Maple/Silver	11		
946	Poplar	23		
947	Poplar	9		
948	Elm/American	8		
949	Buckthorn	6		
950	Elm/American	10		
951	Elm/American	6		X
952	Elm/American	8		X
953	Cottonwood	11		X
954	Ash/Green	6		X
955	Buckthorn	6		X
956	Cottonwood	13		X
957	Cottonwood	13		X
958	Willow/Black	18		X
959	Ash/Green	6		X
960	Ash/Green	6		X
961	Elm/American	7		X
962	Ash/Green	6		X
963	Cottonwood	23		X
964	Ash/Green	6		X
965	Ash/Green	6		X
966	Cherry/Black	6		X
967	Ash/Green	6		X
968	Ash/Green	6		X
969	Box Elder	7		X
970	Ash/Green	6		X
971	Buckthorn	6		X
972	Ash/Green	5		X
973	Elm/American	10		X
974	Elm/American	20		X
975	Cottonwood	20		X
976	Ash/Green	6		X
977	Ash/Green	5		X
978	Cottonwood	25		X
979	Ash/Green	6		X
980	Ash/Green	5		X
981	Ash/Green	5		X

982	Buckthorn	6		X
983	Cottonwood	23		X
984	Cottonwood	13		X
985	Cottonwood	6		X
986	Cottonwood	8		X
987	Cottonwood	14		X
988	Cottonwood	9		X
989	Ash/Green	9		X
990	Ash/Green	8		X
991	Ash/Green	8		X
992	Cottonwood	13		X
993	Cottonwood	9		X
994	Cottonwood	8		X
995	Cottonwood	10		X
996	Ash/Green	7		X
997	Ash/Green	7		X
998	Elm/American	15		X
999	Cottonwood	10		X
1002	Ash/Green	6		
1003	Ash/Green	6		
1004	Elm/American	8		
10001	Ash/Green	7		
10002	Willow/Black	25		
10003	Ash/Green	6		
10004	Box Elder	8		
10005	Box Elder	6		
10006	Box Elder	6		
10007	Box Elder	6		
10008	Box Elder	7		
10009	Elm/American	6		
10010	Ash/Green	9		
10012	Box Elder	10		
20917	Box Elder	13		
20998	Cottonwood	15		
20999	Cottonwood	13		
30000	Cottonwood	10.5		X
30001	Ash/Green	8.5		X
30002	Ash/Green	9	Dead	X
30003	Cedar/Red	4		X
30004	Cedar/Red	4		X
30005	Ash/Green	6		X
30006	Elm/American	10		X
30007	Ash/Green	9.5		X
30008	Ash/Green	6		X

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
A	BHD	GW	GW	9/10/2026	ISSUED FOR BID

BARR®
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435
PH: 1-800-632-2277
WWW.BARR.COM
MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

TREE REMOVAL TABLES 3 OF 4

BARR PROJECT # 2327206000
DWG # R-007
REV # A

30009	Cottonwood	15.5		X
30011	Box Elder	13		
30012	Apple	6.5		
30013	Elm/Siberian	10		
30014	Elm/American	8		
30015	Cottonwood	27		
30016	Cottonwood	12		
30017	Cottonwood	9		
30018	Cottonwood	34		
30019	Apple	6		
30020	Cottonwood	26		
30021	Elm/American	8		
30022	Cottonwood	15		
30023	Cottonwood	8		
30024	Cottonwood	18		
30025	Apple	9		
30026	Cottonwood	12		
30027	Elm/Siberian	6		
30028	Cottonwood	28		
30029	Box Elder	13		
30030	Elm/Siberian	14		
30031	Elm/Siberian	9		
30032	Cottonwood	24		
30033	Cottonwood	25		
30034	Cottonwood	28		
30035	Box Elder	8		
30036	Cottonwood	16		
30037	Elm/American	6		
30038	Oak/Bur	6		
30039	Cottonwood	18		
30040	Cottonwood	19		
30041	Elm/American	12		
30042	Elm/American	13		
30043	Cottonwood	33.5		
30044	Box Elder	9	Dead	
30045	Ash/Green	6		
30046	Cottonwood	23		
30047	Cottonwood	23		
30048	Cottonwood	18		
30049	Ash/Green	7		X
30050	Box Elder	8		
30051	Cottonwood	22		
30052	Cottonwood	22		
30053	Box Elder	12		
30054	Ash/Green	8		
30055	Cottonwood	12	Downed	X
30056	Cottonwood	24	Dead	X
30057	Ash/Green	8		X
30058	Cottonwood	22		
30059	Cottonwood	22		
30060	Ash/Green	9		
30061	Cottonwood	25		
30062	Ash/Green	7		
30063	Cottonwood	24		
30064	Elm/Siberian	6		
30065	Cottonwood	18		
30066	Ash/Green	9		
30067	Elm/American	6		
30068	Cottonwood	19		
30069	Cottonwood	23		X
30070	Ash/Green	10		X
30071	Ash/Green	8		X
30072	Cottonwood	14		X
30073	Cottonwood	22		X
30074	Cottonwood	22		X
30075	Ash/Green	6		X
30076	Box Elder	7		X
30077	Box Elder	12		X
30078	Ash/Green	8		X

30079	Ash/Green	11		X
30080	Box Elder	10		X
30081	Box Elder	8		
30082	Box Elder	10		X
30083	Box Elder	20		X
30084	Cottonwood	13		
30085	Ash/Green	10		
30086	Cottonwood	13		
30087	Cottonwood	13		
30088	Cottonwood	20		
30089	Ash/Green	6		
30090	Ash/Green	20		
30091	Elm/American	7		
30092	Cottonwood	16		
30093	Cottonwood	8		
30094	Ash/Green	13		
30095	Ash/Green	7		
30096	Ash/Green	7		
30097	Ash/Green	7		
30098	Ash/Green	6		
30099	Ash/Green	10		
30100	Ash/Green	8		
30101	Ash/Green	13		
30102	Box Elder	9		
30103	Box Elder	9	Dead	
30104	Box Elder	8		
30105	Ash/Green	6		
30106	Ash/Green	10		
30107	Cottonwood	24		
30108	Box Elder	8		
30109	Cottonwood	21		
30110	Cottonwood	24		
30111	Ash/Green	6		
30112	Cottonwood	10		
30113	Cottonwood	10		
30114	Elm/Siberian	9	Dead	
30115	Box Elder	10		
30116	Buckthorn	8		
30117	Cottonwood	16		
30118	Cottonwood	20		
30119	Cottonwood	20		
30120	Box Elder	6	Dead	
30121	Box Elder	8		
30122	Ash/Green	6		
30123	Box Elder	12		
30124	Box Elder	10		
30125	Box Elder	10		
30126	Box Elder	6		
30127	Box Elder	7		
30128	Cottonwood	18		
30129	Cottonwood	20		
30130	Box Elder	6		
30131	Box Elder	12	Dead	
30132	Ash/Green	7		
30133	Box Elder	9		
30134	Box Elder	8		
30135	Box Elder	10	Downed	
30136	Box Elder	8		
30137	Ash/Green	9		
30138	Box Elder	9		
30139	Cottonwood	18		
30140	Cottonwood	12		
30141	Cottonwood	22		
30142	Ash/Green	10		
30143	Cottonwood	27		
30144	Cottonwood	26		
30145	Cottonwood	19		
30146	Elm/Siberian	7		
30147	Elm/Siberian	11		

30148	Cottonwood	23		
30149	Elm/Siberian	7		
30150	Box Elder	6		
30151	Elm/Siberian	8		
30152	Box Elder	13		
30153	Cottonwood	22		
30154	Ash/Green	10		
30155	Elm/Siberian	7		
30156	Black Locust	7		
30157	Black Locust	8		
30158	Box Elder	7		
30159	Ash/Green	6		
30160	Black Locust	8		
30161	Black Locust	12		
30162	Black Locust	11		
30163	Black Locust	6		
30164	Black Locust	8		
30165	Black Locust	11		
30166	Black Locust	9		
30167	Cottonwood	21		
30168	Black Locust	11		
30169	Box Elder	6		
30170	Apple	8		
30171	Black Locust	9		
30172	Cottonwood	12		
30173	Box Elder	7		
30174	Box Elder	8		
30175	Box Elder	6		
30176	Box Elder	6		
30177	Box Elder	7		
30179	Box Elder	8		
30180	Ash/Green	6		
30181	Black Locust	7		
30182	Black Locust	10		
30184	Cottonwood	19		
30185	Cottonwood	19		
30186	Black Locust	12		
30187	Elm/American	12		
30188	Cottonwood	18		
30189	Elm/American	8		
30190	Buckthorn	6		
30191	Elm/American	7		
30192	Elm/American	7		
30193	Elm/American	6		
30194	Black Locust	20		
30195	Black Locust	11		
30196	Black Locust	14		
30197	Black Locust	7		
30198	Black Locust	8		
30199	Cottonwood	19		
30200	Elm/American	9		
30201	Black Locust	12		
30202	Box Elder	7		
30203	Elm/American	10		
30204	Ash/Green	7		
30205	Box Elder	6		
30206	Elm/American	8		
30207	Ash/Green	8		
30208	Ash/Green	8		
30209	Elm/American	12		
30210	Box Elder	7		
30211	Buckthorn	6		
30212	Ash/Green	11		
30224	Ash/Green	9		X
30225	Ash/Green	10		X
30226	Cottonwood	10		X
30227	Ash/Green	6		X
30228	Cedar/Red	4		X
30229	Elm/Siberian	18		X

30230	Cedar/Red	4		X
30231	Basswood/American	15		X
30232	Cottonwood	22		X
30233	Elm/Siberian	12		X
30234	Box Elder	6		X
30235	Cottonwood	23		X
30236	Cottonwood	9		
30237	Cottonwood	24		
30238	Cottonwood	10		
30239	Cottonwood	20		
30240	Cottonwood	22		
30241	Cottonwood	23		
30242	Cottonwood	23		
30243	Cottonwood	21		
30244	Cottonwood	10		
30245	Ash/Green	8		
30246	Apple	9		
30247	Cottonwood	10		
30248	Cottonwood	23		
30249	Cottonwood	25		
30250	Elm/Siberian	9		
30251	Ash/Green	8		
30252	Ash/Green	8		
30253	Ash/Green	7		
30254	Elm/American	6		
30255	Elm/American	6		
30256	Buckthorn	6		
30257	Mulberry	8		
30258	Ash/Green	6		
30259	Elm/American	9		
30260	Cottonwood	11		X
30261	Ash/Green	10		X
30262	Elm/American	8		X
30263	Cottonwood	13		X
30264	Cottonwood	25		X
30265	Ash/Green	6		X
30266	Ash/Green	7		X
30267	Ash/Green	6		X
30268	Ash/Green	6		X
30269	Elm/American	8		X
30270	Ash/Green	8		X
30271	Cottonwood	31		X
30272	Pine/White	12		X
30274	Spruce	4		X
30275	Spruce	4		X
30276	Ash/Green	6		X
30277	Cottonwood	25		X
30278	Pine/White	12		X
30279	Elm/American	8		X
30280	Cottonwood	7		X
30281	Cottonwood	30.5		X
30282	Cottonwood	30.5		X
30283	Box Elder	6		X
30284	Cedar/Red	8		X
30285	Cedar/Red	4		X
30286	Elm/American	12		X
30287	Cottonwood	14		X
30288	Cottonwood	16		X
30289	Cottonwood	21		X
30290	Cottonwood	14		X
30291	Cottonwood	10		X
30292	Cottonwood	7		X
30293	Cottonwood	16		X
30294	Cottonwood	15		X
30295	Cottonwood	10		X
30296	Ash/Green	8.5		X
			TOTAL REMOVALS	441

PRELIMINARY DRAFT
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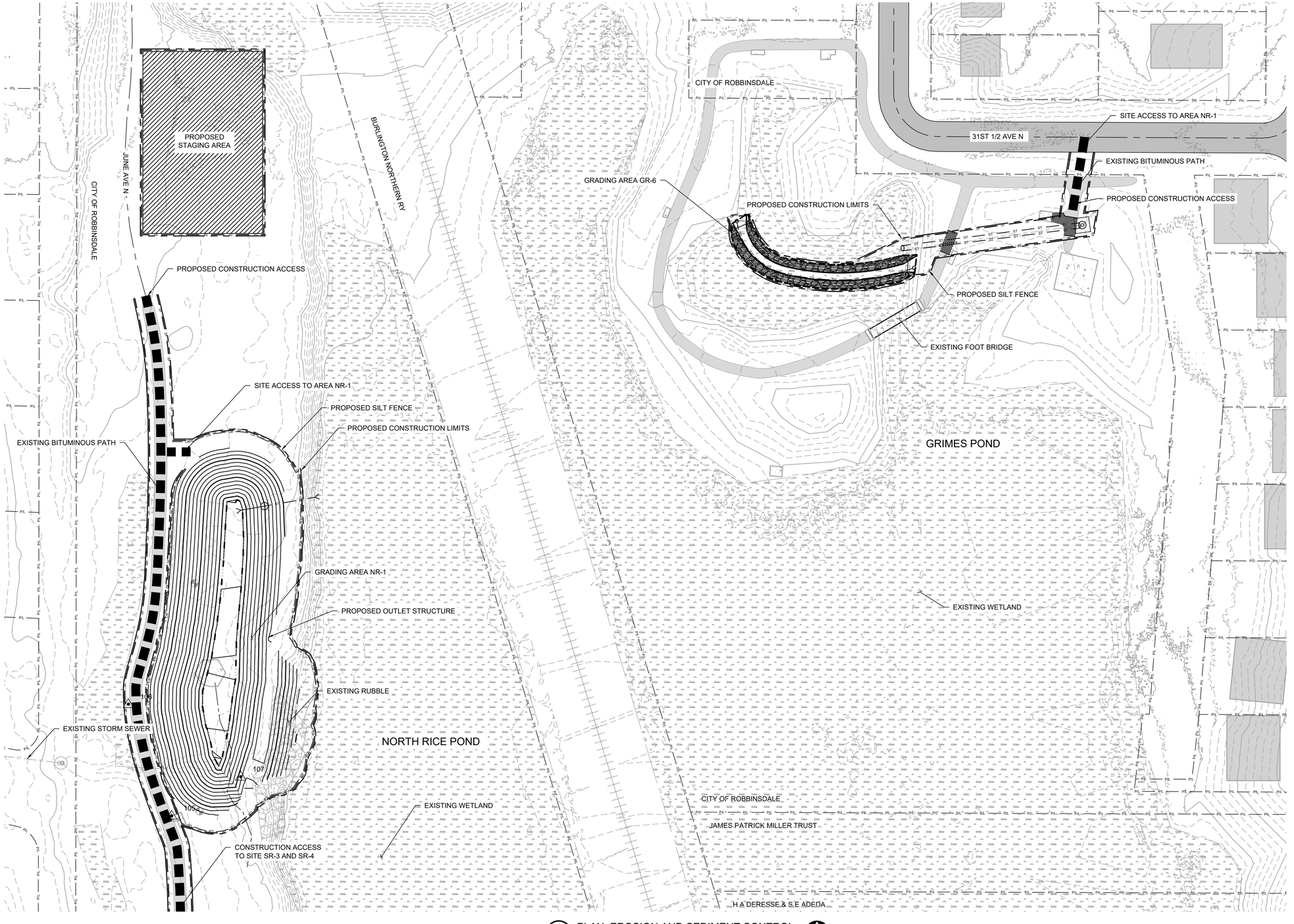
THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

TREE REMOVAL TABLES 4 OF 4

BARR PROJECT # 2327206000
DWG # R-008
REV # A



1 - PLAN: EROSION AND SEDIMENT CONTROL

0 40 80

SCALE IN FEET

N

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- 1380 — EXISTING MAJOR CONTOUR
- 1379 — EXISTING MINOR CONTOUR
- 1380 — PROPOSED MAJOR CONTOUR
- 1379 — PROPOSED MINOR CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- SF — PROPOSED SILT FENCE
- WT — EXISTING WETLAND BOUNDARY
- ST — EXISTING STORM SEWER
- P/L — PROPERTY LINE
- CB — PROPOSED LINER COVER BOUNDARY
- 100YR — 100 YR FLOOD ELEVATION
- EXISTING EDGE OF VEGETATION
- PROPOSED CONSTRUCTION ACCESS
- EXISTING RUBBLE
- EXISTING WETLAND
- ST — EXISTING STORM MANHOLE
- CB — EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT
- CONIFEROUS TREE TO BE REMOVED
- DECIDUOUS TREE TO BE REMOVED
- EXISTING RAILROAD TRACKS
- EXISTING CONCRETE
- PROPOSED STAGING AREA

NOTES:

1. CONTRACTOR IS RESPONSIBLE TO LOCATE AND FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO WORK.
2. CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL BMPS PRIOR TO COMMENCEMENT OF GRADING FOR EACH LOCATION DURING CONSTRUCTION
3. ALL EXISTING ROADS, PARKING LOTS, TRAILS, FENCES, SIGNS, OR SIMILAR SHALL BE PROTECTED DURING CONSTRUCTION EXCEPT WHERE NOTED ON PLANS.
4. ADJUSTMENTS MAY BE REQUIRED PER FIELD CONDITIONS ENCOUNTERED.
5. SEE G002 - G005 FOR SWPPP.

PRELIMINARY DRAFT
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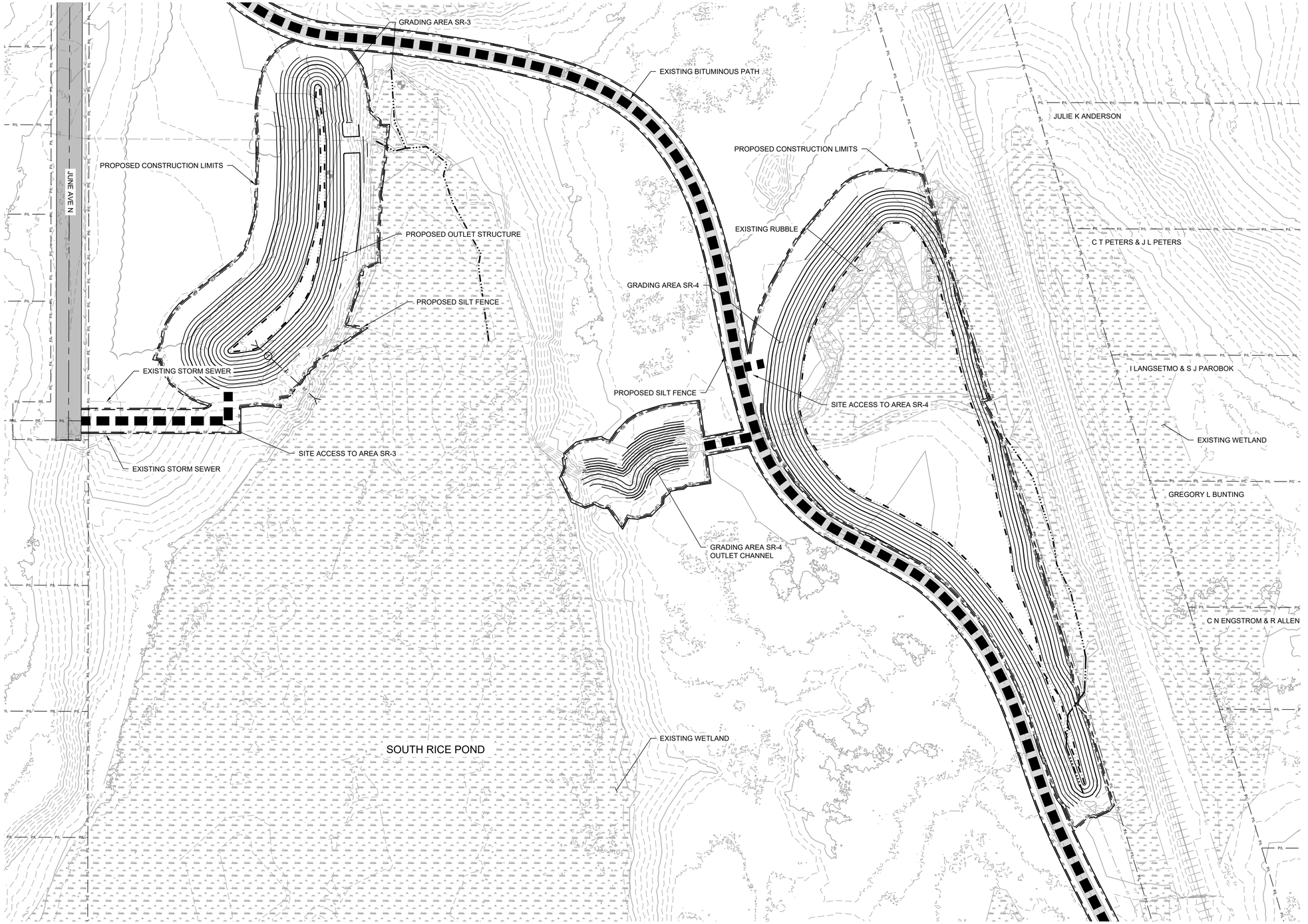
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

EROSION AND SEDIMENT CONTROL PLAN 1 OF 2

BARR PROJECT # 2327206000
DWG # ESC-001
REV # A



1 - PLAN: EROSION AND SEDIMENT CONTROL

0 40 80

SCALE IN FEET

N

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- 1380 — EXISTING MAJOR CONTOUR
- 1379 — EXISTING MINOR CONTOUR
- 1380 — PROPOSED MAJOR CONTOUR
- 1379 — PROPOSED MINOR CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- SF — PROPOSED SILT FENCE
- WT — EXISTING WETLAND BOUNDARY
- ST — EXISTING STORM SEWER
- P/L — PROPERTY LINE
- CB — PROPOSED LINER COVER BOUNDARY
- 100YR — 100 YR FLOOD ELEVATION
- EXISTING EDGE OF VEGETATION
- PROPOSED CONSTRUCTION ACCESS
- EXISTING RUBBLE
- EXISTING WETLAND
- ST — EXISTING STORM MANHOLE
- CB — EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT
- CONIFEROUS TREE TO BE REMOVED
- DECIDUOUS TREE TO BE REMOVED
- EXISTING RAILROAD TRACKS

NOTES:

1. CONTRACTOR IS RESPONSIBLE TO LOCATE AND FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO WORK.
2. CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL BMPS PRIOR TO COMMENCEMENT OF GRADING FOR EACH LOCATION DURING CONSTRUCTION
3. ALL EXISTING ROADS, PARKING LOTS, TRAILS, FENCES, SIGNS, OR SIMILAR SHALL BE PROTECTED DURING CONSTRUCTION EXCEPT WHERE NOTED ON PLANS.
4. ADJUSTMENTS MAY BE REQUIRED PER FIELD CONDITIONS ENCOUNTERED.
5. SEE G002 - G005 FOR SWPPP.

PRELIMINARY DRAFT
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PLYMOUTH, MINNESOTA

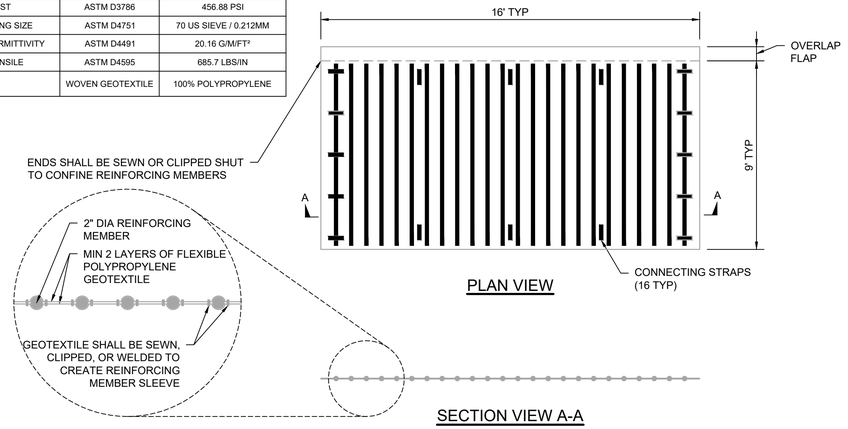
SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

EROSION AND SEDIMENT CONTROL PLAN 2 OF 2

BARR PROJECT # 2327206000
DWG # ESC-002
REV # A

ORIGINAL DRAWING SIZE: ANSI FULL BLEED D (34.00 X 22.00 INCHES) PLOT SCALE: 1:1 PLOT DATE: 9/10/2026 2:39 PM
CAD USER: CHARLIE E. PHILLIPS FILE: M:\DESIGN\2327206\00\CIVIL\2327206I00_C-ESC.DWG

GEOTEXTILE PROPERTY	TEST PROCEDURE	MIN VALUE
GRAB TENSILE STRENGTH	ASTM D4632	802.6 LBS
APPARENT BREAKING ELONGATION	ASTM D4632	25% / 18%
TRAPEZOID TEARING STRENGTH	ASTM D4533	607 LBS
PUNCTURE RESISTANCE	ASTM D4833	374.3 LBS
MULLEN BURST	ASTM D3786	456.88 PSI
APPARENT OPENING SIZE	ASTM D4751	70 US SIEVE / 0.212MM
CONSTANT HEAD PERMITTIVITY	ASTM D4491	20.16 G/M/FT²
WIDE WIDTH TENSILE	ASTM D4595	685.7 LBS/IN
MATERIAL	WOVEN GEOTEXTILE	100% POLYPROPYLENE



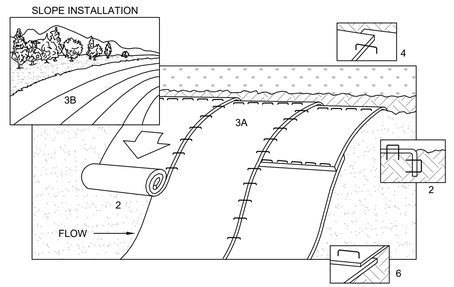
PLAN VIEW

SECTION VIEW A-A

NOTES:

1. MAINTAIN ENTRANCE/EXIT THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIR OR REPLACE AS REQUIRED TO PREVENT TRACKING OFFSITE.
2. REMOVE ENTRANCE/EXIT IN CONJUNCTION WITH FINAL GRADING AND SITE STABILIZATION.

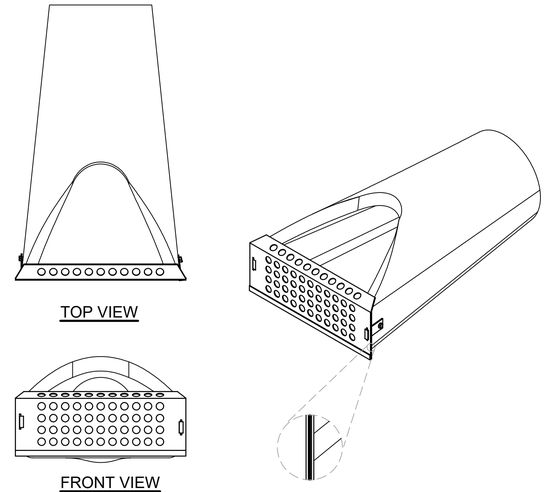
1 - DETAIL: CONSTRUCTION ENTRANCE/EXIT - RUMBLE STRIP MAT
NOT TO SCALE



NOTES:

1. REFER TO MANUFACTURER RECOMMENDATIONS FOR STAPLE PATTERNS FOR SLOPE INSTALLATIONS.
2. PREPARE SOIL AND APPLY SEED (AND FERTILIZER WHERE REQUIRED) AS SPECIFIED PRIOR TO INSTALLING BLANKETS. GROUND SHOULD BE SMOOTH AND FREE OF DEBRIS. ENSURE UNDERLYING SOILS MAINTAIN CONTINUOUS CONTACT WITH BLANKET.
3. BEGIN (A) AT THE TOP OF THE SLOPE AND ROLL THE BLANKETS DOWN OR (B) AT ONE END OF THE SLOPE AND ROLL THE BLANKETS HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP, WITH THE UPHILL BLANKET ON TOP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. BLANKET MATERIALS SHALL BE AS SPECIFIED OR AS APPROVED BY OWNER'S REPRESENTATIVE.

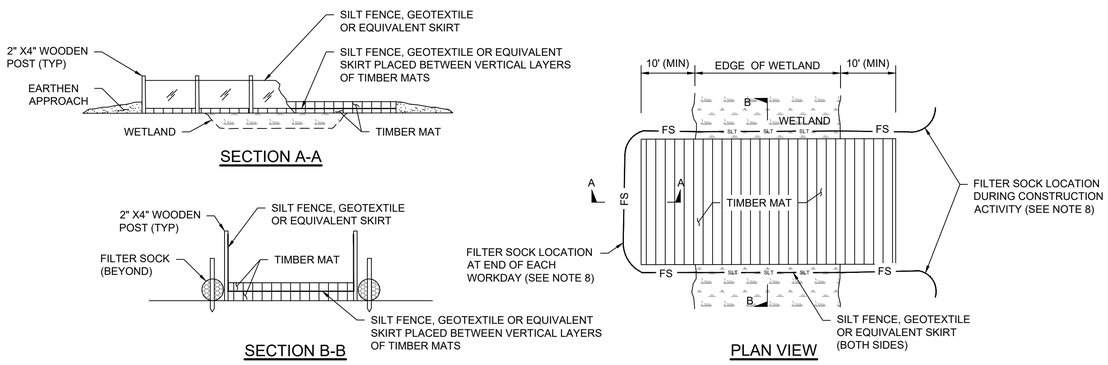
2 - DETAIL: EROSION CONTROL BLANKET - INSTALLATION
NOT TO SCALE



NOTES:

1. INLET PROTECTION SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED OR IMMEDIATELY FOLLOWING CULVERT INSTALLATION, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
2. MATERIALS SHALL BE SUFFICIENT TO ALLOW FLOW WHILE BLOCKING SEDIMENT. NO HOLES OR GAPS SHALL BE PRESENT IN/UNDER FILTER DEVICE.
3. CLEAN INLET PROTECTION AND REMOVE ACCUMULATED SEDIMENT WHEN SEDIMENT REACHES 1/2 THE HEIGHT OF THE FILTER DEVICE, OR AS REQUIRED TO ALLOW FLOW INTO THE CULVERT AND PREVENT SEDIMENT FROM LEAVING THE DEVICE.
4. MATERIALS AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.

3 - DETAIL: CULVERT INLET PROTECTOR
NOT TO SCALE



SECTION A-A

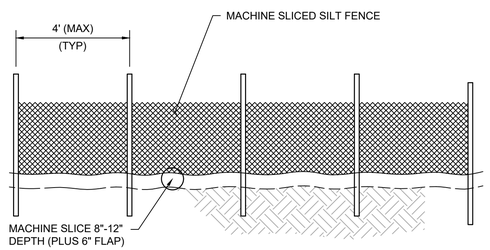
PLAN VIEW

SECTION B-B

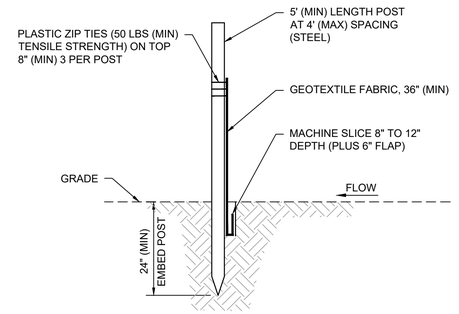
NOTES:

1. ALL RUNOFF FROM DISTURBED UP SLOPE AREAS WITHIN LIMITS OF DISTURBANCE MUST BE TREATED FOR SEDIMENT BEFORE REACHING WETLAND.
2. INSTALL SEDIMENT BARRIER BEFORE TRENCHING WITHIN WETLAND.
3. A SKIRT FORMED OF SILT FENCE, GEOTEXTILE FABRIC, OR EQUIVALENT SHALL BE PLACED ON THE BOTTOM OF THE BRIDGE TO TRAP SEDIMENT AS NECESSARY.
4. MAINTAIN SURFACE OF TEMPORARY EQUIPMENT CROSSING TO PREVENT SOIL DISCHARGES TO WETLAND.
5. EXTEND TIMBER MAT 10 FEET ON BOTH SIDES OF WETLAND CROSSING TO MINIMIZE DISTURBANCE.
6. APPROACHES TO CROSSING ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE ORIGINAL GRADE.
7. ADDITIONAL TIMBER MATS MAY BE REQUIRED BY OPERATIONS TO CROSS EXISTING GAS LINES.
8. FILTER SOCK WILL BE PLACED AT THE EDGE OF THE EQUIPMENT BRIDGE AT THE END OF EACH WORK DAY TO PREVENT EROSION, BUT WILL BE REMOVED DURING CONSTRUCTION ACTIVITY.

4 - DETAIL: TEMPORARY EQUIPMENT CROSSING OF WELTAND
NOT TO SCALE



DOWNSTREAM VIEW



SECTION VIEW

NOTES:

1. INSTALL SILT FENCE PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED AND MAINTAIN THROUGHOUT THE CONSTRUCTION PERIOD. REMOVE SILT FENCE AND ANY ACCUMULATED SEDIMENT IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. NO HOLES OR GAPS SHALL BE PRESENT IN/UNDER SILT FENCE. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
3. REMOVE ACCUMULATED SEDIMENT WHEN BUILD UP REACHES 1/2 OF FENCE HEIGHT. OR INSTALL A SECOND SILT FENCE DOWNSTREAM OF THE ORIGINAL FENCE AT A SUITABLE DISTANCE.
4. WHEN SPLICES ARE NECESSARY MAKE SPLICE AT POST ACCORDING TO SPLICE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMMODATE THE 6 INCH FLAP, THEN DRIVE BOTH POSTS AND BURY THE FLAP AND COMPACT BACKFILL.

5 - DETAIL: SILT FENCE - MACHINE SLICED
NOT TO SCALE

PRELIMINARY DRAFT
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THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

EROSION AND SEDIMENT CONTROL DETAILS

BARR PROJECT # 2327206000
DWG # ESC-003
REV # A

GRIMES AVE N

ACCESS ROUTE, CONTRACTOR TO PROTECT BITUMINOUS PATH WITH CONSTRUCTION ACCESS MATS, TYP.

31ST 1/2 AVE N

EXISTING FOOT BRIDGE

EXISTING BITUMINOUS PATH

GRADING AREA GR-6

C-006 - GRADING PLAN AREA GR-6

CITY OF ROBBINSDALE

GRIMES POND

EXISTING WETLAND

CITY OF ROBBINSDALE

JAMES PATRICK MILLER TRUST

H A DERESSE & S E ADEDA

T BRYERWELL & E BRYERWELL

TIMOTHY JOHN BELDEN SR

P BORRESON & HANNAH BORRESON

SAHIR GHANI

LIVING WELL DISABILITY SERV

KATHLEEN A RUSHING

KRISTEN M LUDTKE ET AL

JULIE K ANDERSON

C T PETERS & J L PETERS

I LANGSETMO & S J PAROBOK

GREGORY L BUNTING

C N ENGSTROM & R ALLEN

GRADING AREA SR-4

EXISTING RUBBLE

EXISTING EDGE OF VEGETATION

EXISTING WETLAND

C-005 - GRADING PLAN AREA SR-4

NORTH RICE POND

SOUTH RICE POND

BURLINGTON NORTHERN RY

PROPOSED OUTLET STRUCTURE

GRADING AREA NR-1

EXISTING WETLAND

GRADING AREA SR-3

PROPOSED STAGING AREA

EXISTING BITUMINOUS PATH

JUNE AVE N

EXISTING STORM SEWER

CITY OF ROBBINSDALE

ACCESS ROUTE, CONTRACTOR TO PROTECT BITUMINOUS PATH WITH CONSTRUCTION ACCESS MATS, TYP.

JUNE AVE N

C-004 - GRADING PLAN AREA SR-3

C-003 - GRADING PLAN AREA NR-1

CULVER RD

LAMKER LIVING TRUST

W J LINDER & S E LINDER

KYLE AVE N

1 - PLAN: SITE PLAN

0 80 160

SCALE IN FEET

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- PROPOSED SILT FENCE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING WETLAND BOUNDARY
- EXISTING STORM SEWER
- PROPERTY LINE
- PROPOSED LINER COVER BOUNDARY
- 100 YR FLOOD ELEVATION
- EXISTING EDGE OF VEGETATION
- PROPOSED CONSTRUCTION ACCESS
- EXISTING RUBBLE
- EXISTING WETLAND
- EXISTING CONCRETE
- PROPOSED STAGING AREA
- EXISTING STORM MANHOLE
- EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT

NOTES:

1. XXXX.
2. XXXX.
3.

CONTROL POINTS				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
105	VRS SPK 105 NR-1	848.60	180133.5297	512907.6342
106	VRS SPK 106 NR-1	848.50	180223.0596	512872.8943
107	TP SPK 107	845.00	180164.8697	512963.0041

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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-	-	-	-	-	-
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-	-	-	-	-	-
A	CP	GW	GW	9/10/2026	ISSUED FOR BID

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NUMBER 10104111545

THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

SITE PLAN

BARR PROJECT # 2327206000
DWG # C-002
REV # A

NORTH RICE POND

PROPOSED OUTLET CONTROL STRUCTURE

PROPOSED CONSTRUCTION LIMITS

PROPOSED SILT FENCE

EXISTING CONCRETE SLAB TO BE REMOVED

EXISTING RUBBLE TO BE REMOVED

PROPOSED EMERGENCY SPILLWAY

EXISTING CONCRETE SLAB

EXISTING BITUMINOUS PATH

EXISTING STORM PIPE

ACCESS ROUTE, CONTRACTOR TO PROTECT BITUMINOUS PATH WITH CONSTRUCTION ACCESS MATS, TYP.

1 - PLAN: PROPOSED GRADING - AREA NR-1

0 20 40
SCALE IN FEET

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- PROPOSED SILT FENCE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING WETLAND BOUNDARY
- EXISTING STORM SEWER
- PROPERTY LINE
- PROPOSED LINER COVER BOUNDARY
- 100 YR FLOOD ELEVATION
- EXISTING EDGE OF VEGETATION
- PROPOSED CONSTRUCTION ACCESS
- EXISTING RUBBLE
- EXISTING WETLAND
- EXISTING CONCRETE
- EXISTING STORM MANHOLE
- EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT

NOTES:

NR-1 VOLUMES	
CUT	5,918 CY
FILL	27 CY
NET (CUT)	5,891 CY
CAPACITY (1' FREEBOARD)	2,242 CY (4.6 ACRE FT)

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

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-	-	-	-	-	-
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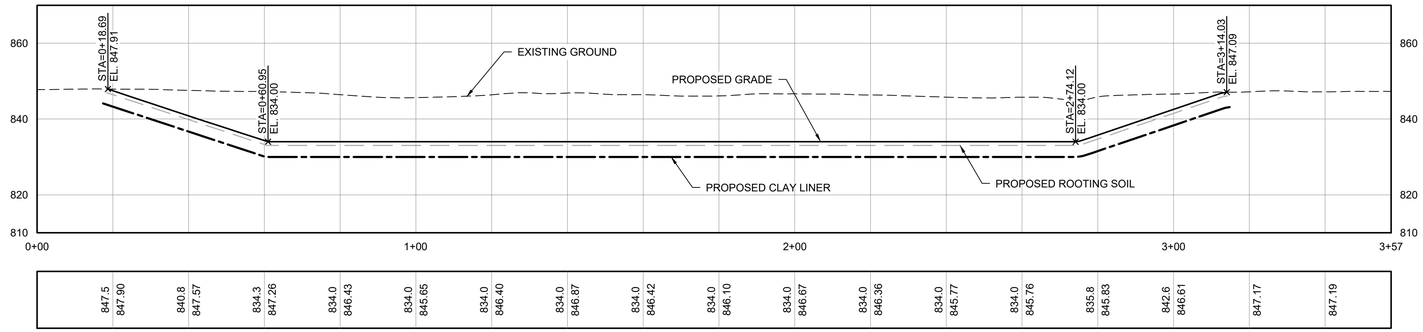
ROBBINSDALE, MN

GRADING PLAN AREA NR-1

BARR PROJECT # 2327206000
DWG # C-003
REV # A

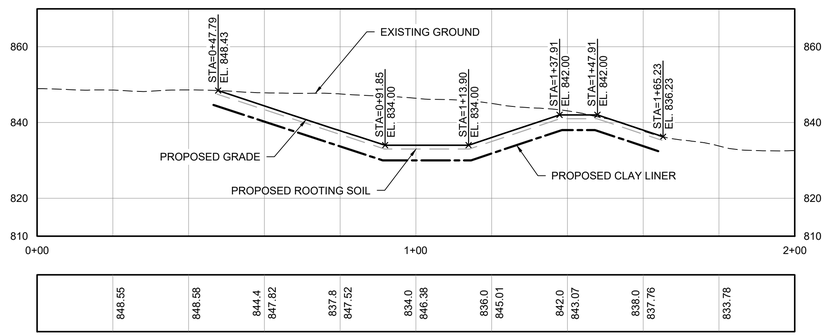
LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- PROPOSED 1 FT ROOTING SOIL
- PROPOSED 3 FT CLAY LINER



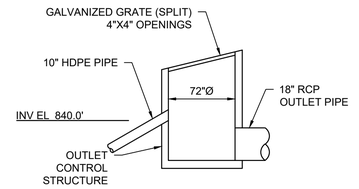
1 C-003 PROFILE: PROPOSED GRADING - AREA NR-1 - NORTH TO SOUTH

0 20 40
SCALE IN FEET



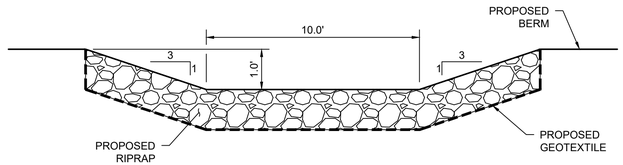
2 C-003 SECTION: PROPOSED GRADING - AREA NR-1 - WEST TO EAST

0 20 40
SCALE IN FEET



3 C-003 TYPICAL DETAIL: OUTLET CONTROL STRUCTURE

NOT TO SCALE



4 C-003 TYPICAL DETAIL: EMERGENCY SPILLWAY

NOT TO SCALE

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

GRADING PROFILE AND SECTIONS AREA NR-1

BARR PROJECT # 2327206000
DWG # C-003A
REV # A

NORTH RICE POND

SOUTH RICE POND

EXISTING 36 IN. CPEP

EXISTING 36 IN. RCP

6 C-004A PROPOSED EMERGENCY SPILLWAY

7 C-004A PROPOSED OUTLET CONTROL STRUCTURE

1 C-004A

4 C-004A

2 C-004A

3 C-004A

EXISTING 18 IN. CMP

EXISTING EDGE OF VEGETATION

ACCESS ROUTE, CONTRACTOR TO PROTECT BITUMINOUS PATH WITH CONSTRUCTION ACCESS MATS, TYP.

JUNE AVE N

1 / - PLAN: PROPOSED GRADING - AREA SR-3

0 10 20

SCALE IN FEET

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING WETLAND BOUNDARY
- EXISTING STORM SEWER
- PROPERTY LINE
- PROPOSED LINER COVER BOUNDARY
- 100 YR FLOOD ELEVATION
- EXISTING EDGE OF VEGETATION
- PROPOSED CONSTRUCTION ACCESS
- EXISTING RUBBLE
- EXISTING WETLAND
- EXISTING STORM MANHOLE
- EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT

NOTES:

1. XXXX.
2. XXXX.
3.

SR-3 VOLUMES	
CUT	4,062 CY
FILL	0
NET (CUT)	4,062 CY
CAPACITY (1' FREEBOARD)	997 CY (0.62 ACRE FT)

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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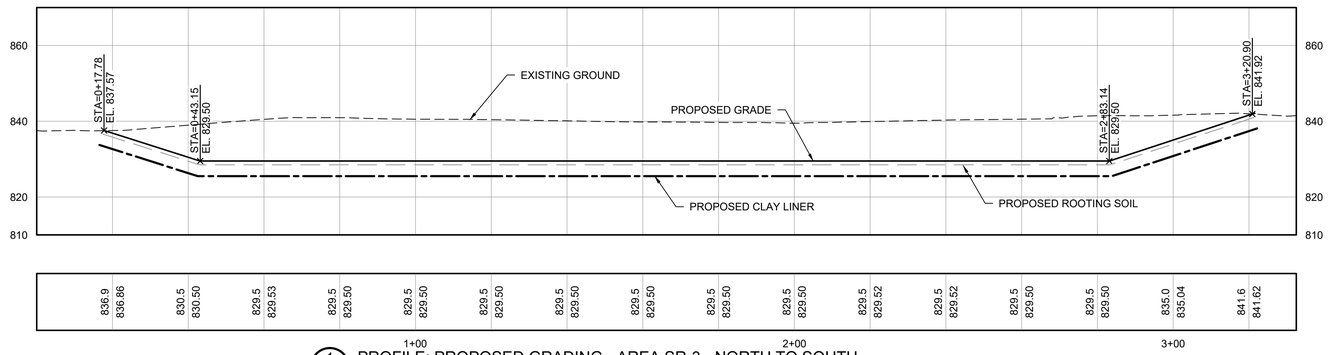
ROBBINSDALE, MN

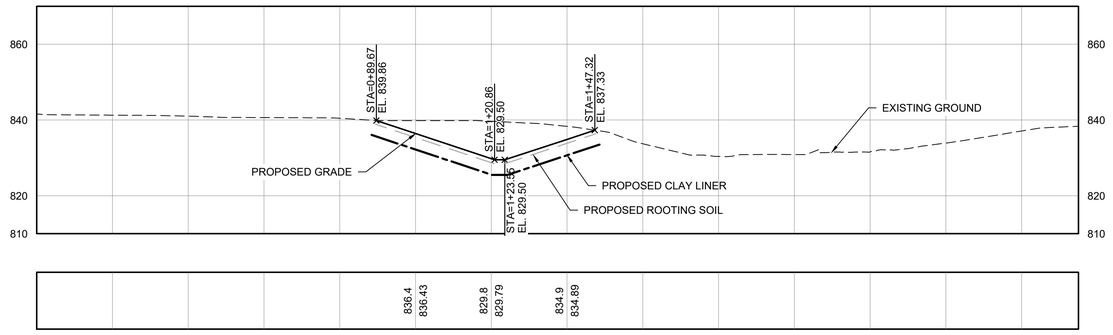
GRADING PLAN AREA SR-3

BARR PROJECT # 2327206000
DWG # C-004
REV # A



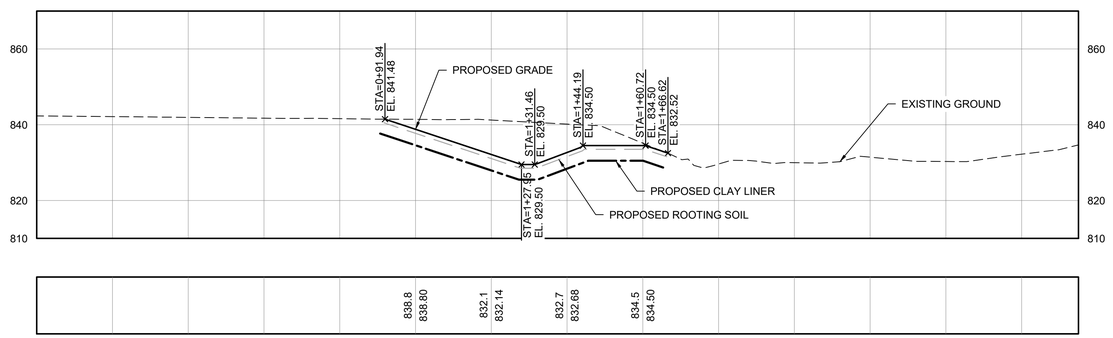
1 C-004 PROFILE: PROPOSED GRADING - AREA SR-3 - NORTH TO SOUTH

0 20 40
SCALE IN FEET



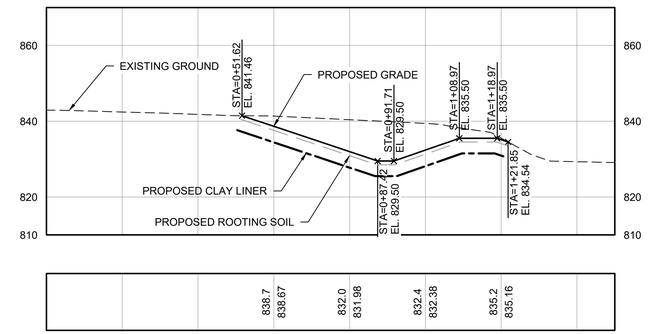
2 C-004 SECTION: PROPOSED GRADING - AREA SR-3 - WEST TO EAST

0 20 40
SCALE IN FEET



3 C-004 SECTION: PROPOSED GRADING - AREA SR-3 - WEST TO EAST

0 20 40
SCALE IN FEET

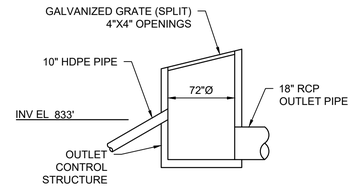


4 C-004 SECTION: PROPOSED GRADING - AREA SR-3 - WEST TO EAST

0 20 40
SCALE IN FEET

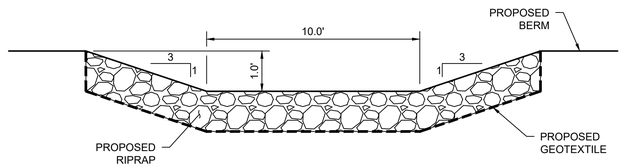
LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- PROPOSED 1 FT ROOTING SOIL
- PROPOSED 3 FT CLAY LINER



5 C-004 DETAIL: OUTLET CONTROL STRUCTURE

NOT TO SCALE



6 C-004 DETAIL: EMERGENCY SPILLWAY

NOT TO SCALE

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

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ROBBINSDALE, MN

GRADING PROFILE AND SECTIONS AREA SR-3

BARR PROJECT # 2327206000
DWG # C-004A
REV # A

ORIGINAL DRAWING SIZE: ANSI FULL BLEED D (34.00 X 22.00 INCHES) PLOT SCALE: 1:1 PLOT DATE: 9/10/2026 2:41 PM
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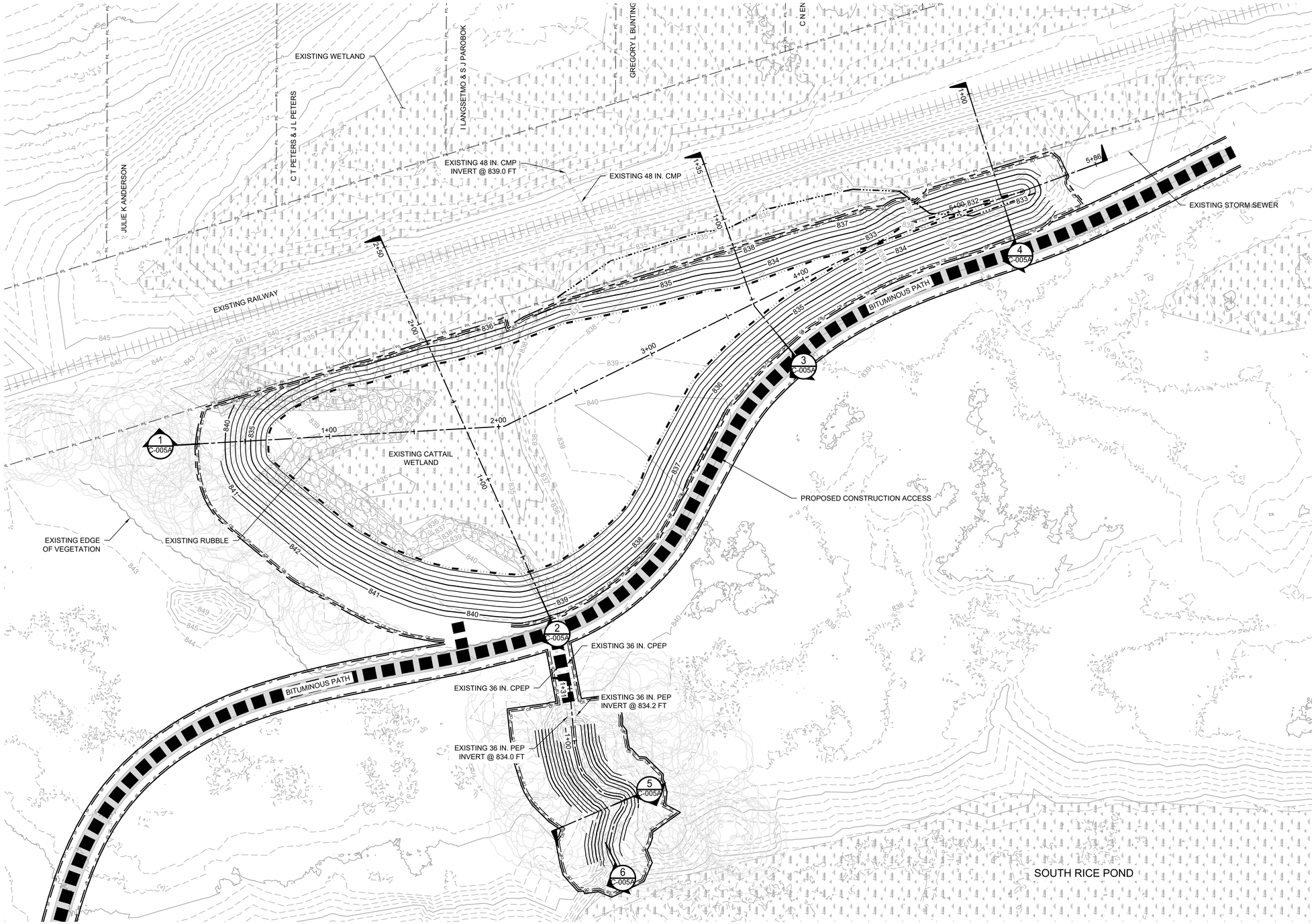

1 / - PLAN: PROPOSED GRADING - AREA SR-4

0 30 60

SCALE IN FEET

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- 1380 — EXISTING MAJOR CONTOUR
- 1379 — EXISTING MINOR CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- 1380 — PROPOSED MAJOR CONTOUR
- 1379 — PROPOSED MINOR CONTOUR
- WT — EXISTING WETLAND BOUNDARY
- ST — EXISTING STORM SEWER
- P/L — PROPERTY LINE
- CB — PROPOSED LINER COVER BOUNDARY
- 100YR — 100 YR FLOOD ELEVATION
- EXISTING EDGE OF VEGETATION
- PROPOSED CONSTRUCTION ACCESS
- EXISTING RUBBLE
- EXISTING WETLAND
- ST — EXISTING STORM MANHOLE
- CB — EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT

NOTES:

1. OVEREXCAVATE 4' IF SAMPLING INDICATES THAT REMAINING SOIL CONTAMINATION EXCEEDS SRVS AND REPLACE WITH CLEAN MATERIAL.

SR-4 VOLUMES	
CUT	9,283 CY
FILL	0 CY
NET (CUT)	9,283 CY
CAPACITY (1' FREEBOARD)	7,427 CY (4.6 ACRE FT)

OUTLET CHANNEL VOLUMES	
CUT	141 CY
FILL	0 CY
NET (CUT)	141 CY

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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-	-	-	-	-	-
-	-	-	-	-	-
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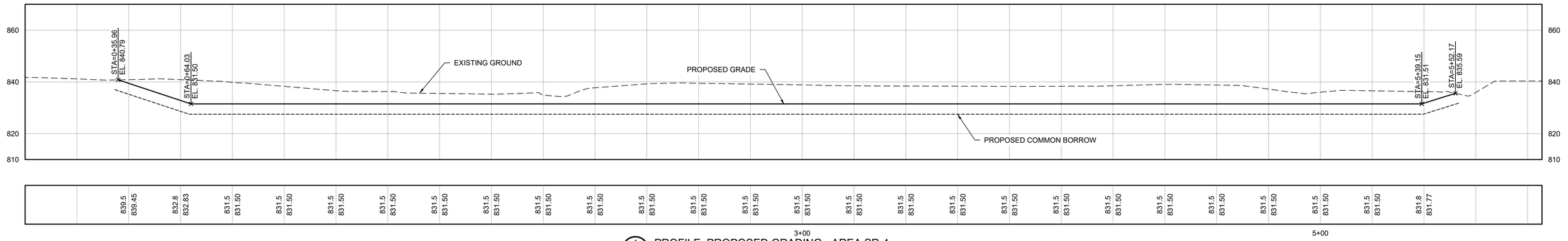
THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

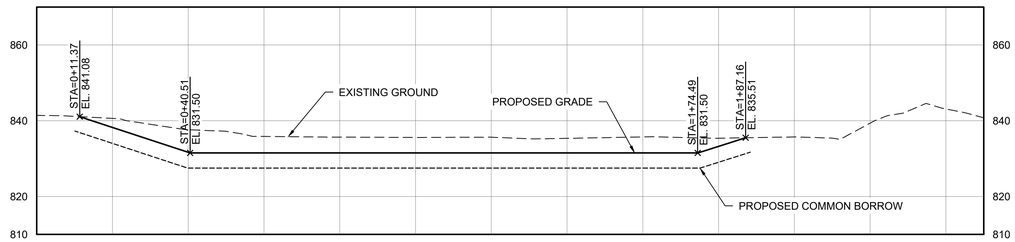
GRADING PLAN AREA SR-4

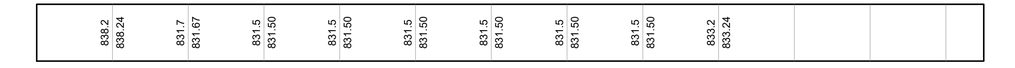
BARR PROJECT # 2327206000
DWG # C-005
REV # A



1 C-005 PROFILE: PROPOSED GRADING - AREA SR-4

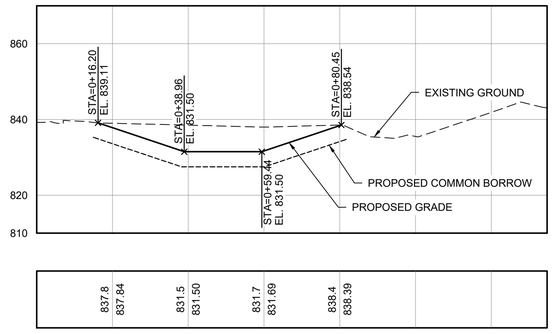
0 20 40
SCALE IN FEET





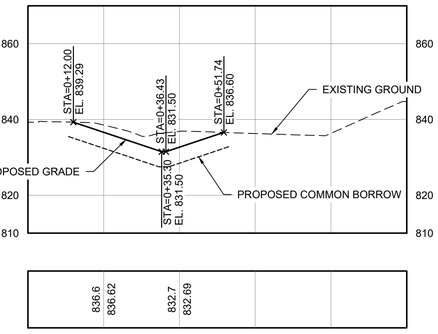
2 C-005 SECTION: PROPOSED GRADING - AREA SR-4 - WEST TO EAST

0 20 40
SCALE IN FEET



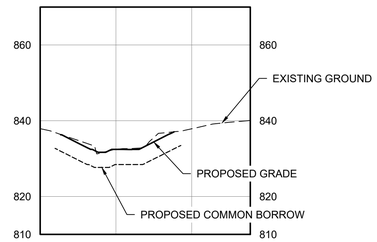
3 C-005 SECTION: PROPOSED GRADING - AREA SR-4 - WEST TO EAST

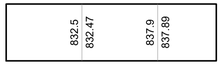
0 20 40
SCALE IN FEET



4 C-005 SECTION: PROPOSED GRADING - AREA SR-4 - WEST TO EAST

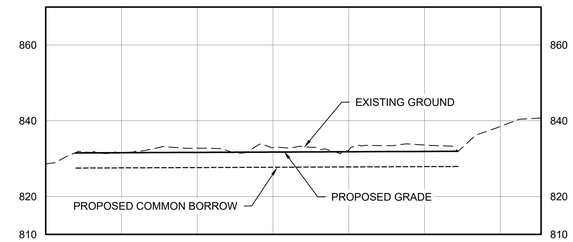
0 20 40
SCALE IN FEET

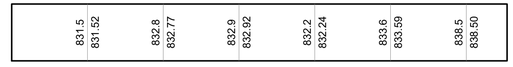




5 C-005 SECTION: PROPOSED GRADING - OUTLET CHANNEL

0 20 40
SCALE IN FEET





6 C-005 PROFILE: PROPOSED GRADING - OUTLET CHANNEL

0 20 40
SCALE IN FEET

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- PROPOSED 4 FT COMMON BORROW

1 - PLAN: PROPOSED GRADING - AREA SR-4

0 30 60
SCALE IN FEET

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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-	-	-	-	-	-
A	CP	GW	GW	9/10/2026	ISSUED FOR BID

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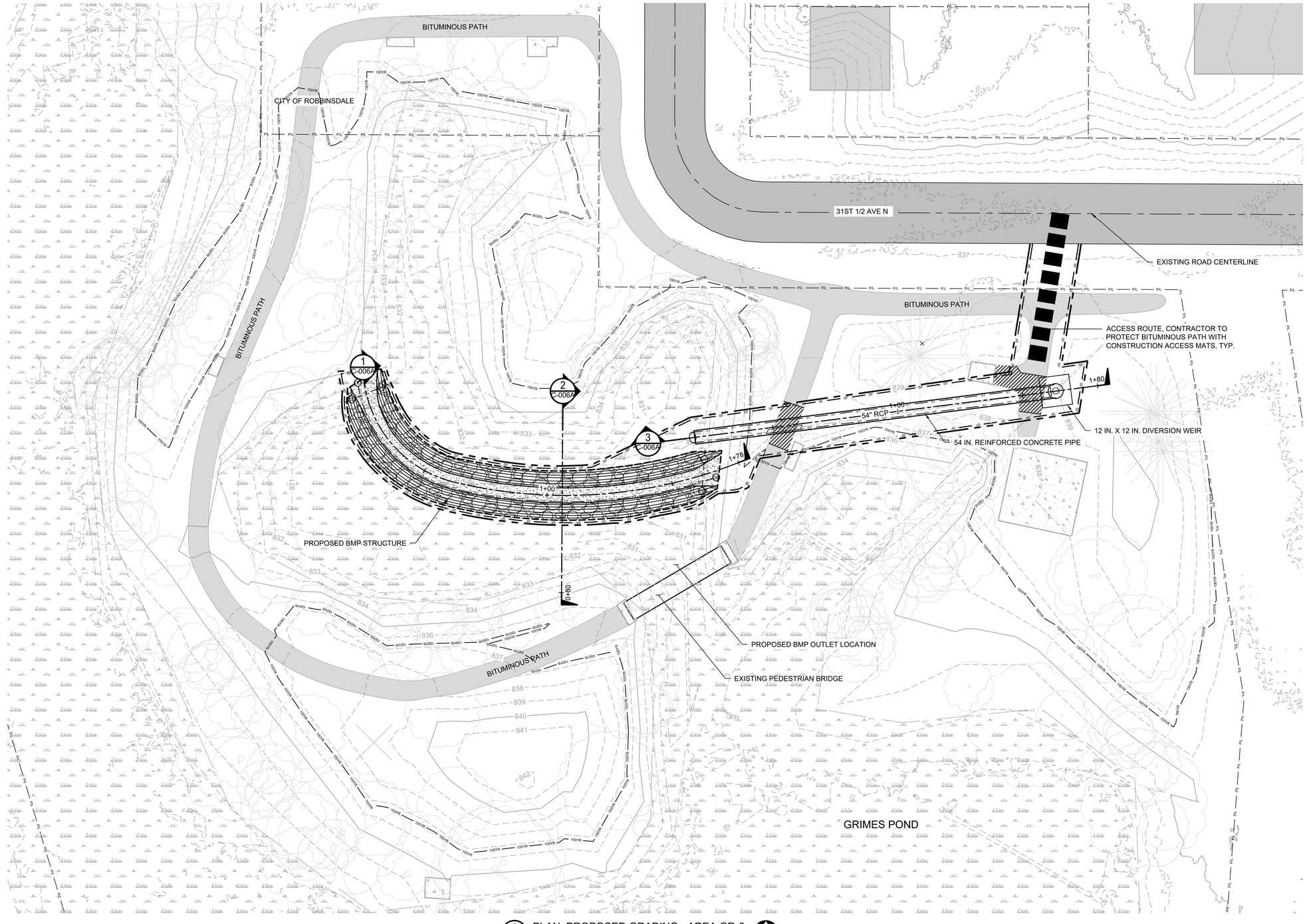
THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

GRADING PROFILE AND SECTIONS AREA SR-4

BARR PROJECT # 2327206000
DWG # C-005A
REV # A



1 / - PLAN: PROPOSED GRADING - AREA GR-6

0 20 40

SCALE IN FEET

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- 1380 — EXISTING MAJOR CONTOUR
- 1379 — EXISTING MINOR CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- 1380 — PROPOSED MAJOR CONTOUR
- 1379 — PROPOSED MINOR CONTOUR
- WT — EXISTING WETLAND BOUNDARY
- ST — EXISTING STORM SEWER
- P/L — PROPERTY LINE
- CB — PROPOSED LINER COVER BOUNDARY
- 100YR — 100 YR FLOOD ELEVATION
- EXISTING EDGE OF VEGETATION
- PROPOSED CONSTRUCTION ACCESS
- EXISTING RUBBLE
- EXISTING WETLAND
- EXISTING CONCRETE
- ST — EXISTING STORM MANHOLE
- CB — EXISTING CATCH BASIN
- EXISTING BORING
- EXISTING CONTROL POINT

NOTES:

1. XXXX.
2. XXXX.
3.

GR-6 VOLUMES	
CUT	0 CY
FILL	134 CY
NET (CUT)	0

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
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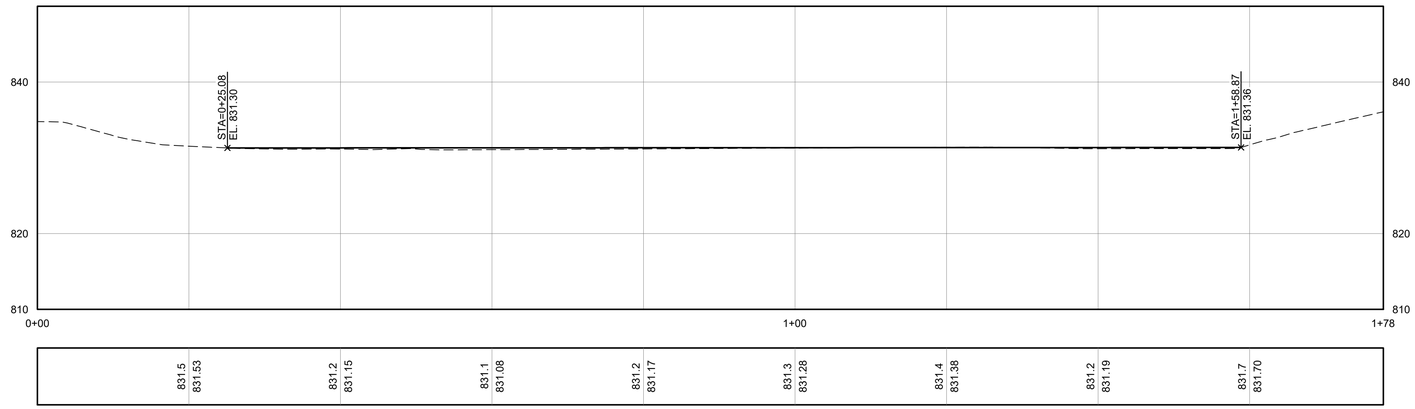
THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

GRADING PLAN AREA GR-6

BARR PROJECT # 2327206000
DWG # C-006
REV # A



1 C-006 PROFILE: PROPOSED GRADING - AREA GR-6 - WEST TO EAST

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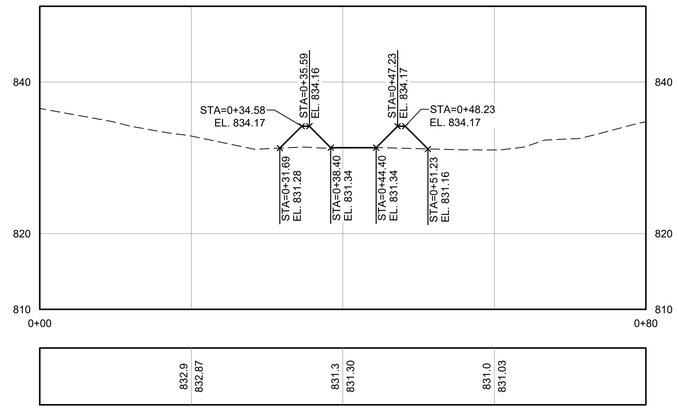
SCALE IN FEET



2 C-006 SECTION: PROPOSED GRADING - AREA GR-6 - NORTH TO SOUTH

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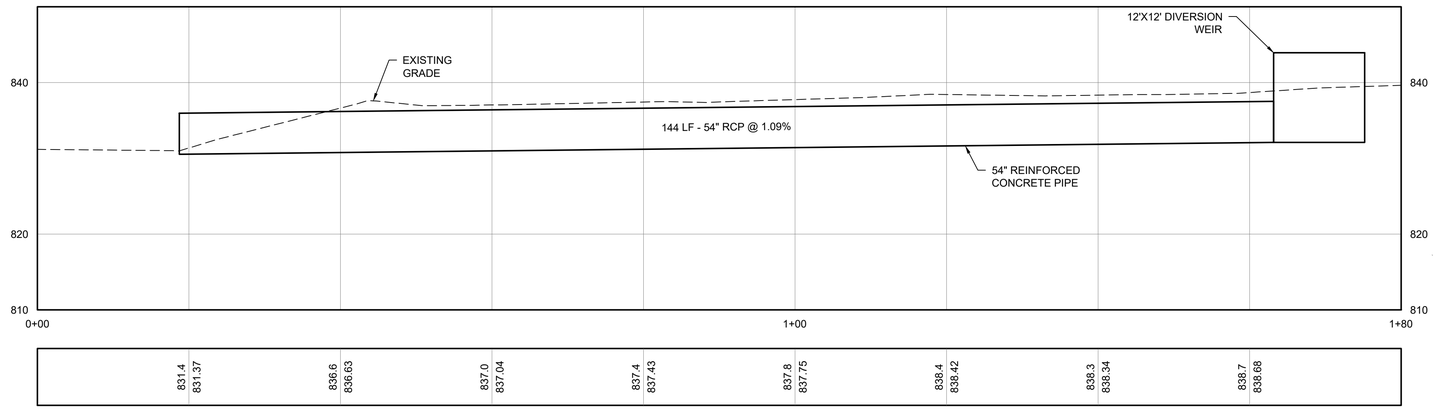

3 C-006 PROFILE: PROPOSED STORM PIPE - AREA GR-6

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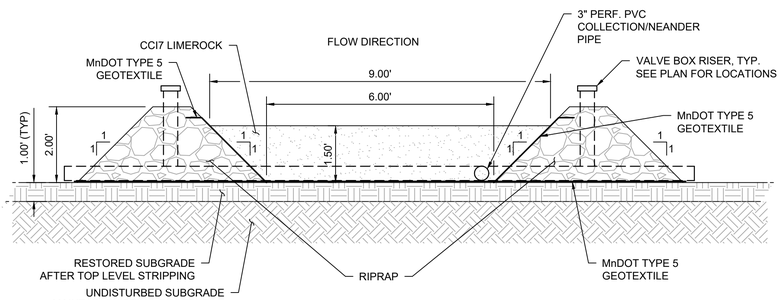
SCALE IN FEET



4 - TYPICAL SECTION: GR-6 AREA CROSS SECTION

NOT TO SCALE

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NOT FOR CONSTRUCTION

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A	CP	GW	GW	9/10/2026	ISSUED FOR BID

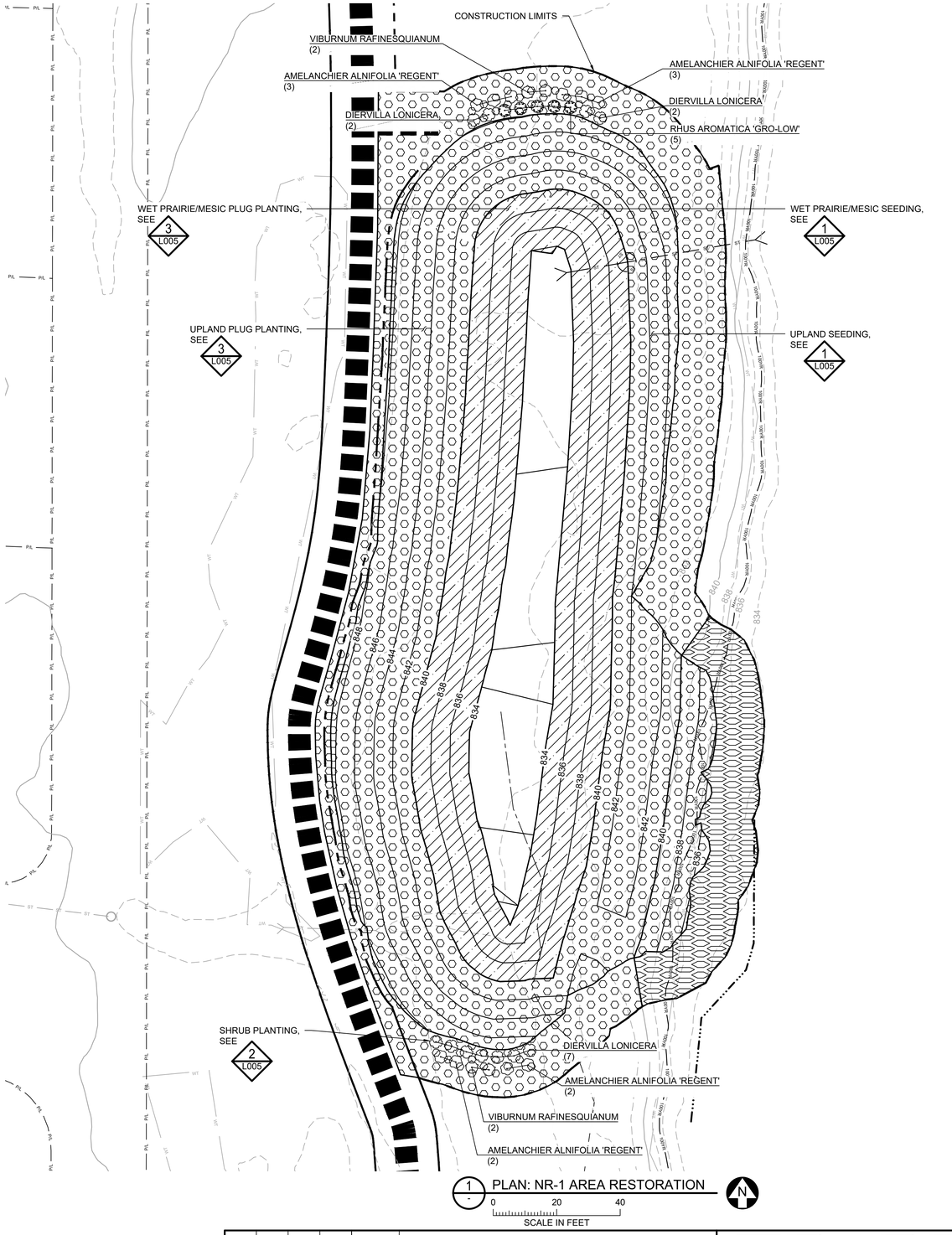
BARR®
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435
PH: 1-800-632-2277
WWW.BARR.COM
MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WATER QUALITY IMPROVEMENTS
ROBBINSDALE, MN

GRADING PROFILE AND SECTIONS AREA GR-6

BARR PROJECT # 2327206000
DWG # C-006A
REV # A



1 - PLAN: NR-1 AREA RESTORATION

0 20 40

SCALE IN FEET

N

Plug Schedule							
Scientific	**Common**	**Area**	**Spacing**	**NR-1 Qty**	**SR-3 Qty**	**SR-4 Qty**	**Total Qty**
Amorpha canescens	Leadplant	Upland	60" O.C.	115	90	69	274
Anemone canadensis	Canada Anemone	Wet Prairie/Mesic	60" O.C.	90	64	137	291
Asclepias verticillata	Whorled Milkweed	Upland	60" O.C.	114	90	69	273
Aster laevis	Smooth Aster	Upland	60" O.C.	114	90	69	273
Carex vulpinoidea	Fox Sedge	Wet Prairie/Mesic	60" O.C.	90	64	137	291
Echinacea aungustifolia	Pale Purple Coneflower	Upland	60" O.C.	114	90	69	273
Iris versicolor	Blue Flag	Wet Prairie/Mesic	60" O.C.	90	64	137	291
Spartina pectinata	Prairie Cordgrass	Wet Prairie/Mesic	60" O.C.	90	64	137	291
Sporobolus heterolepis	Prairie Dropseed	Upland	60" O.C.	114	90	69	273
						Total	**2530**

Seeding Schedule					
Seeding Area	**NR-1 Qty (AC)**	**SR-3 Qty (AC)**	**SR-4 Qty (AC)**	**GR-6 Qty (AC)**	**Total Qty (AC)**
Wet Prairie/Mesic	0.21	0.15	0.31		0.67
Upland	0.49	0.57	0.35	0.06	1.47
Wetland	0.05			0.04	0.09
				Total	**2.23**

Shrub Schedule							
Scientific	**Common**	**Area**	**Spacing**	**NR-1 Qty**	**SR-3 Qty**	**SR-4 Qty**	**Total Qty**
Amelanchier alnifolia 'Regent'	Serviceberry 'Regent'	Upland	60" O.C.	10	8	26	44
Diervilla lonicera	Lowbush Honeysuckle	Upland	60" O.C.	11	12	36	59
Rhus aromatica 'Gro-Low'	Fragrant Sumac 'Gro-Low'	Upland	60" O.C.	5	3	17	25
Viburnum rafinesquianum	Downy Arrowwood	Upland	60" O.C.	4	5	13	22
						Total	**150**

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- 840 — EXISTING MAJOR CONTOUR
- 838 — EXISTING MINOR CONTOUR
- 840 — PROPOSED MAJOR CONTOUR
- 838 — PROPOSED MINOR CONTOUR
- CB CB CB — PROPOSED LINER COVER BOUNDARY
- 100YR 100YR — 100 YR FLOOD ELEVATION
- PROPOSED CONSTRUCTION ACCESS
- WET PRAIRIE/MESIC SEEDING
- UPLAND SEEDING
- WETLAND SEEDING
- WT — EXISTING WETLAND BOUNDARY
- ST ST ST — EXISTING STORM SEWER
- EXISTING RUBBLE
- EXISTING TREE

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND FIELD-VERIFYING ALL EXISTING UTILITIES PRIOR TO INITIATING WORK ON THE SITE AND THROUGHOUT THE TERM OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING UTILITIES FROM DAMAGE DURING ALL SITE RESTORATION AND PLANTING OPERATIONS.
2. CONSTRUCTION LIMITS AS SHOWN ARE APPROXIMATE. FINAL CONSTRUCTION LIMITS TO BE COORDINATED WITH THE OWNER AND STAKED IN THE FIELD.
3. CONTRACTOR SHALL TAKE PRECAUTIONS TO MINIMIZE THE TRANSFER OF AQUATIC AND TERRESTRIAL INVASIVE SPECIES TO THE MAXIMUM EXTENT POSSIBLE.
4. ALL EXISTING TREES SHALL BE PROTECTED DURING CONSTRUCTION, UNLESS IDENTIFIED FOR REMOVAL PER PLAN OR AS DIRECTED IN THE FIELD BY THE ENGINEER.
5. ALL EXISTING TREES TO REMAIN, TREE ROOTS, PLANTING BEDS, CONCRETE, ASPHALT, EXISTING CURBS, PAVEMENT, SIDEWALKS, AND OTHER SITE ELEMENTS SHALL BE PROTECTED FROM IMPACTS FROM ALL SOIL PREPARATION AND LANDSCAPING OPERATIONS. AVOID COMPACTING SOIL WITH HEAVY EQUIPMENT. ANY DAMAGE TO EXISTING SITE FEATURES, STRUCTURES, OR NEWLY CONSTRUCTED ITEMS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SATISFACTION.
6. PROTECT PLANTS ON THE SITE FROM STRESS PRIOR TO INSTALLATION BY PLACING IN SHADE, HEELING INTO MULCH, WATERING, AND USE OF OTHER APPROPRIATE MEASURES.
7. ANY COMPACTION OF PREVIOUSLY LOOSENED SOIL MUST BE RELOOSENED PRIOR TO TOPSOILING OR PLANT INSTALLATION. SEE LANDSCAPE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
8. STAKE OR OTHERWISE LAYOUT ALL INDIVIDUAL/SPECIMEN TREES AND SHRUBS AS SHOWN ON PLAN, DETAILS, AND PLANT SCHEDULE. SOME FIELD ADJUSTMENT MAY BE NECESSARY. LANDSCAPE ARCHITECT TO REVIEW PLANT LAYOUT PRIOR TO PLANTING. INFORM THE LANDSCAPE ARCHITECT OF PLANTING A MINIMUM OF THREE (3) DAYS PRIOR TO PLANT DELIVERY.
9. PLACE MULCH AS SPECIFIED TO DEPTH WITHIN ALL PLANTING AREAS.
10. THOROUGHLY WATER ALL PLANTINGS WITHIN 2 HOURS AFTER INSTALLATION, SEE PROJECT SPECIFICATIONS.
11. CONTRACTOR IS RESPONSIBLE FOR WATERING PLANTS (REGARDLESS OF NOTIFICATION) THROUGHOUT THE ENTIRE WARRANTY PERIOD. WATERING WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
12. PROVIDE 6" TOPSOIL, PERMANENT SEEDING, AND EROSION CONTROL BLANKET PER MNDOT 3885 FOR ALL ON- AND OFF-SITE DISTURBED AREAS AS SHOWN ON THE PLANS. SEED ANY DISTURBED AREAS NOT OTHERWISE INDICATED ON THE PLANS WITH TYPE A MIX AT THE SPECIFIED RATE.
13. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN PLANS, SPECIFICATIONS, AND/OR FIELD CONDITIONS ENCOUNTERED.
14. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN THE CASE OF ANY DISCREPANCIES BETWEEN DETAILS, PLANS, AND/OR SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.
15. PROVIDE LANDSCAPE IRRIGATION AS SPECIFIED FOR FOUNDATION PLANTINGS AT TIME OF BUILDING DEVELOPMENT.

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

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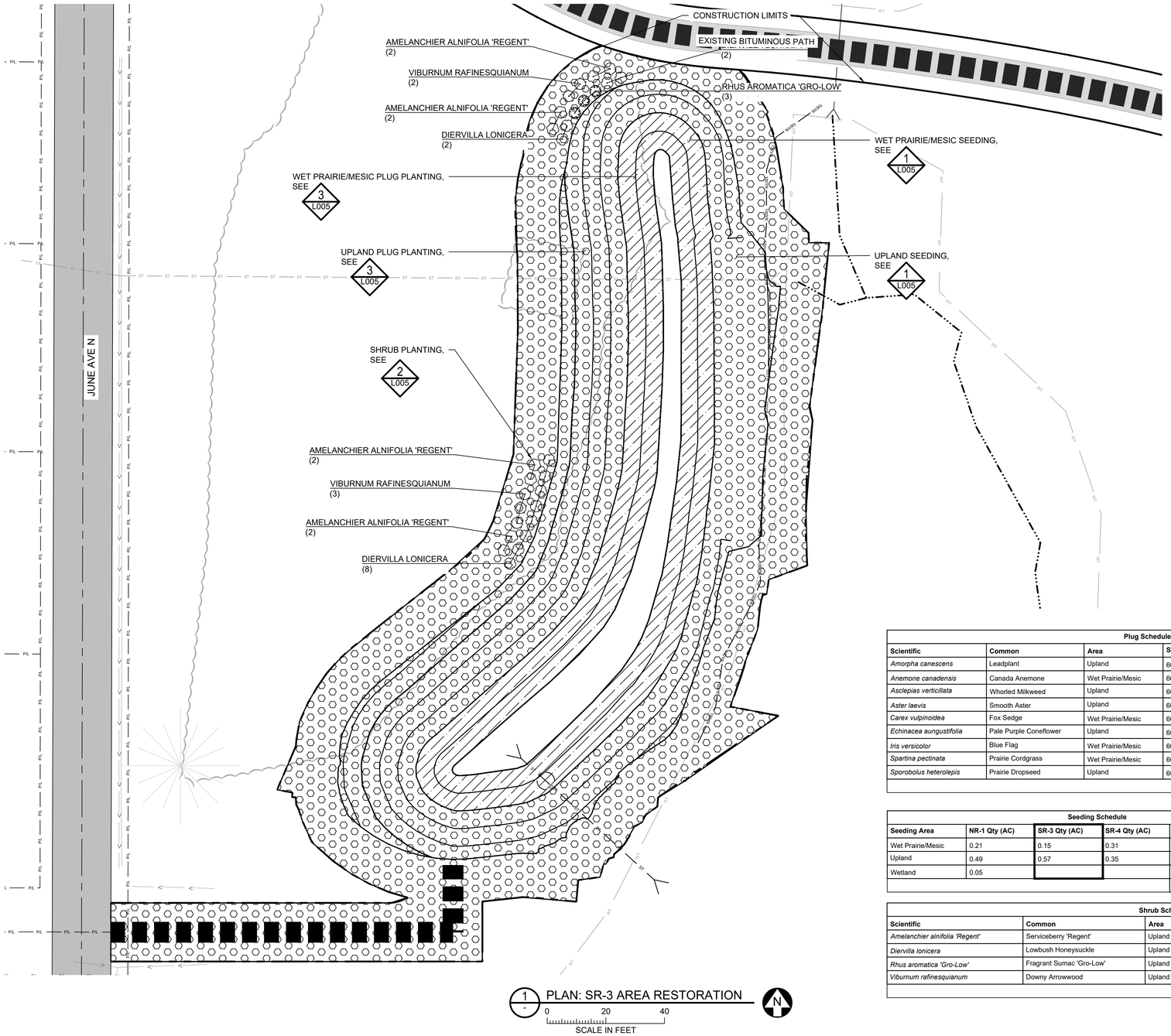
PH: 1-800-632-2277
WWW.BARR.COM
MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WQ IMPROVEMENTS
ROBBINSDALE, MINNESOTA
RESTORATION PLAN
NR-1

BARR PROJECT # 2327206000
DWG # L001
REV # A



Plug Schedule

Scientific	Common	Area	Spacing	NR-1 Qty	SR-3 Qty	SR-4 Qty	Total Qty
Amorpha canescens	Leadplant	Upland	60" O.C.	115	90	69	274
Anemone canadensis	Canada Anemone	Wet Prairie/Mesic	60" O.C.	90	64	137	291
Asclepias verticillata	Whorled Milkweed	Upland	60" O.C.	114	90	69	273
Aster laevis	Smooth Aster	Upland	60" O.C.	114	90	69	273
Carex vulpinoidea	Fox Sedge	Wet Prairie/Mesic	60" O.C.	90	64	137	291
Echinacea aungustifolia	Pale Purple Coneflower	Upland	60" O.C.	114	90	69	273
Iris versicolor	Blue Flag	Wet Prairie/Mesic	60" O.C.	90	64	137	291
Spartina pectinata	Prairie Cordgrass	Wet Prairie/Mesic	60" O.C.	90	64	137	291
Sporobolus heterolepis	Prairie Dropseed	Upland	60" O.C.	114	90	69	273
						Total	**2530**

Seeding Schedule

Seeding Area	NR-1 Qty (AC)	SR-3 Qty (AC)	SR-4 Qty (AC)	GR-6 Qty (AC)	Total Qty (AC)
Wet Prairie/Mesic	0.21	0.15	0.31		0.67
Upland	0.49	0.57	0.35	0.06	1.47
Wetland	0.05			0.04	0.09
				Total	**2.23**

Shrub Schedule

Scientific	Common	Area	Spacing	NR-1 Qty	SR-3 Qty	SR-4 Qty	Total Qty
Amelanchier alnifolia 'Regent'	Serviceberry 'Regent'	Upland	60" O.C.	10	8	26	44
Diervilla lonicera	Lowbush Honeysuckle	Upland	60" O.C.	11	12	36	59
Rhus aromatica 'Gro-Low'	Fragrant Sumac 'Gro-Low'	Upland	60" O.C.	5	3	17	25
Viburnum rafinesquianum	Downy Arrowwood	Upland	60" O.C.	4	5	13	22
						Total	**150**

PROJECT DATUM:

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VERTICAL: NAVD 88

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- 100YR — 100 YR FLOOD ELEVATION
- PROPOSED CONSTRUCTION ACCESS
- WET PRAIRIE/MESIC SEEDING
- UPLAND SEEDING
- WETLAND SEEDING
- WT — EXISTING WETLAND BOUNDARY
- ST — EXISTING STORM SEWER
- EXISTING RUBBLE
- EXISTING TREE

NOTES:

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PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

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A	EBZ	GW	GW	9/10/2026	ISSUED FOR BID

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SUITE 200
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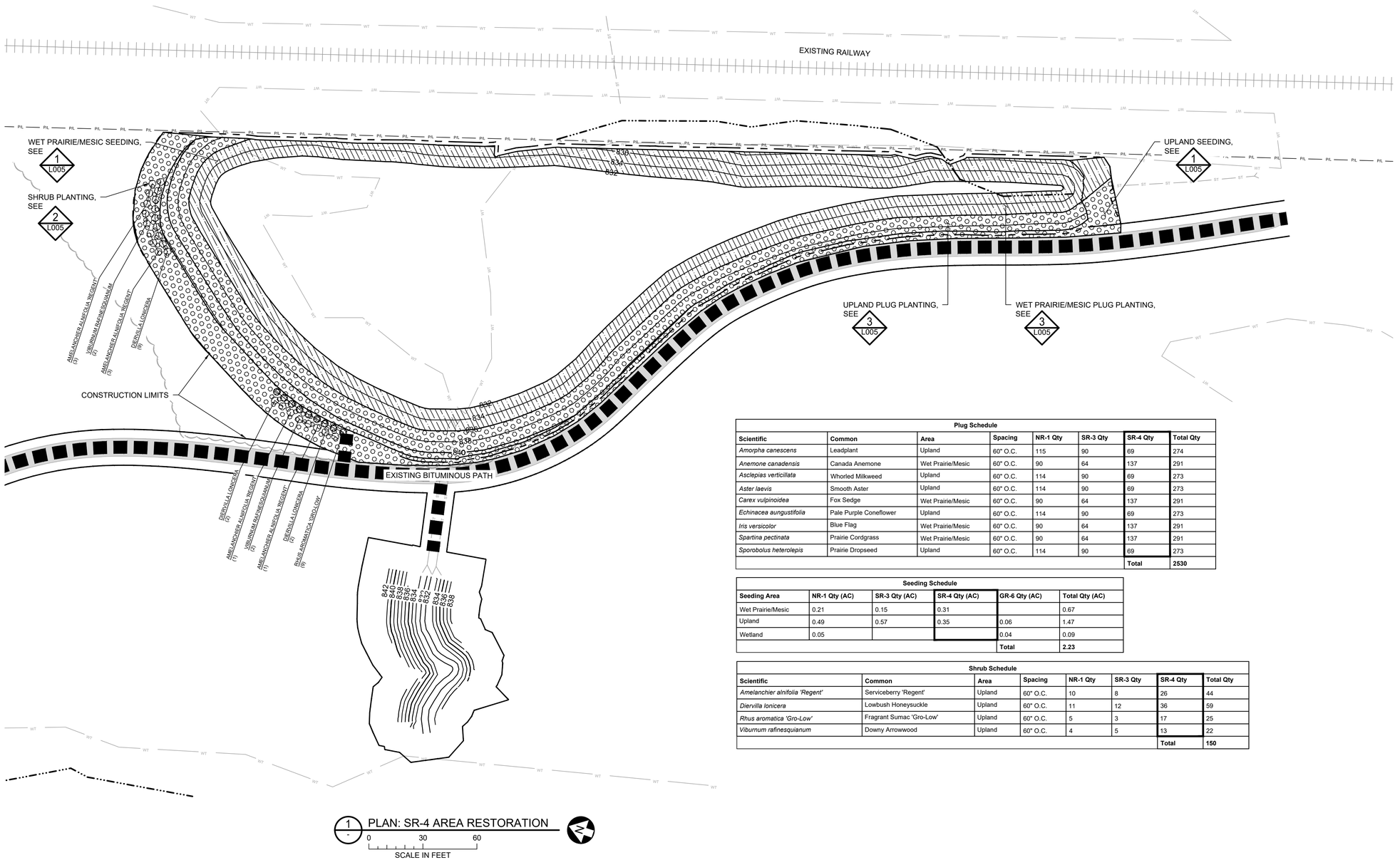
NUMBER 10104111545

THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WQ IMPROVEMENTS
ROBBINSDALE, MINNESOTA
RESTORATION PLAN
SR-3

BARR PROJECT # 2327206000
DWG # L002
REV # A



1 - PLAN: SR-4 AREA RESTORATION

0 30 60

SCALE IN FEET

Plug Schedule

Scientific	Common	Area	Spacing	NR-1 Qty	SR-3 Qty	SR-4 Qty	Total Qty
Amorpha canescens	Leadplant	Upland	60" O.C.	115	90	69	274
Anemone canadensis	Canada Anemone	Wet Prairie/Mesic	60" O.C.	90	64	137	291
Asclepias verticillata	Whorled Milkweed	Upland	60" O.C.	114	90	69	273
Aster laevis	Smooth Aster	Upland	60" O.C.	114	90	69	273
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Sporobolus heterolepis	Prairie Dropseed	Upland	60" O.C.	114	90	69	273
						Total	**2530**

Seeding Schedule

Seeding Area	NR-1 Qty (AC)	SR-3 Qty (AC)	SR-4 Qty (AC)	GR-6 Qty (AC)	Total Qty (AC)
Wet Prairie/Mesic	0.21	0.15	0.31		0.67
Upland	0.49	0.57	0.35	0.06	1.47
Wetland	0.05			0.04	0.09
				Total	**2.23**

Shrub Schedule

Scientific	Common	Area	Spacing	NR-1 Qty	SR-3 Qty	SR-4 Qty	Total Qty
Amelanchier alnifolia 'Regent'	Serviceberry 'Regent'	Upland	60" O.C.	10	8	26	44
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Rhus aromatica 'Gro-Low'	Fragrant Sumac 'Gro-Low'	Upland	60" O.C.	5	3	17	25
Viburnum rafinesquianum	Downy Arrowwood	Upland	60" O.C.	4	5	13	22
						Total	**150**

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- 840 — EXISTING MAJOR CONTOUR
- 838 — EXISTING MINOR CONTOUR
- 840 — PROPOSED MAJOR CONTOUR
- 838 — PROPOSED MINOR CONTOUR
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- 100YR — 100 YR FLOOD ELEVATION
- PROPOSED CONSTRUCTION ACCESS
- WET PRAIRIE/MESIC SEEDING
- UPLAND SEEDING
- WETLAND SEEDING
- EXISTING WETLAND BOUNDARY
- ST — EXISTING STORM SEWER
- EXISTING RUBBLE
- EXISTING TREE

NOTES:

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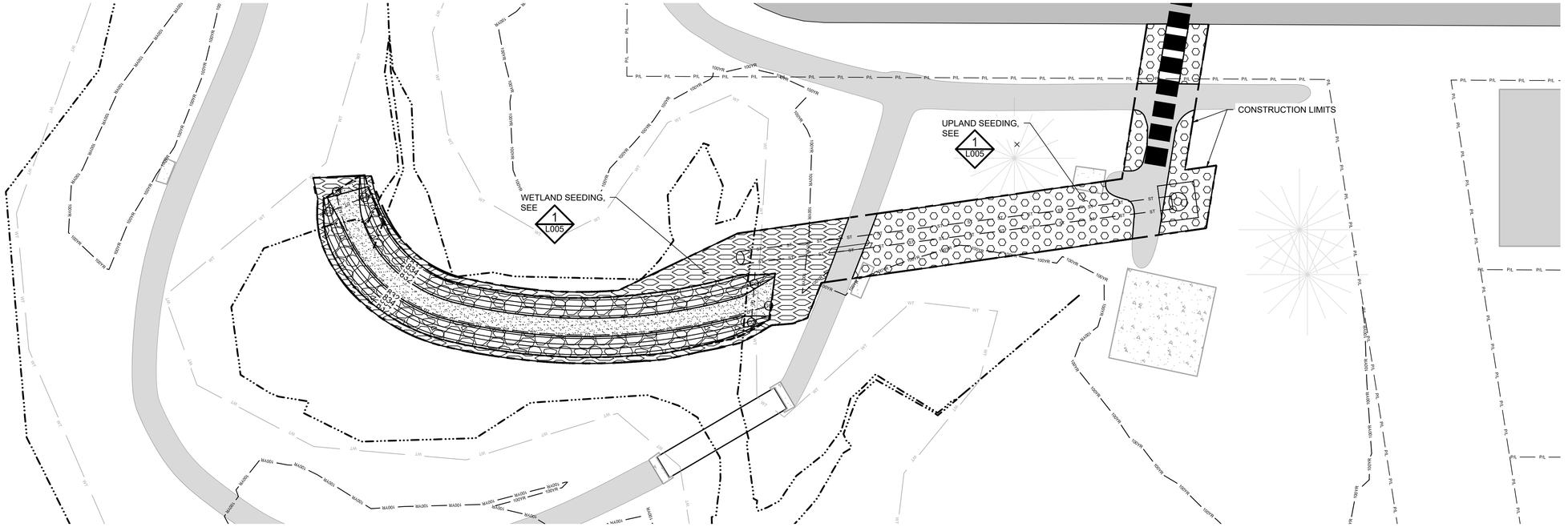
NUMBER 10104111545

THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

SOCHACKI PARK WQ IMPROVEMENTS
ROBBINSDALE, MINNESOTA
RESTORATION PLAN
SR-4

BARR PROJECT # 2327206000
DWG # L003
REV # A



1 PLAN: GR-6 AREA RESTORATION PLAN
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0 20 40
SCALE IN FEET

N

Seeding Schedule					
Seeding Area	**NR-1 Qty (AC)**	**SR-3 Qty (AC)**	**SR-4 Qty (AC)**	**GR-6 Qty (AC)**	**Total Qty (AC)**
Wet Prairie/Mesic	0.21	0.15	0.31		0.67
Upland	0.49	0.57	0.35	0.06	1.47
Wetland	0.05			0.04	0.09
				Total	**2.23**

PROJECT DATUM:

HORIZONTAL: MNDOT: HENNEPIN CO, US FT
VERTICAL: NAVD 88

LEGEND:

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED LINER COVER BOUNDARY
- 100 YR FLOOD ELEVATION
- PROPOSED CONSTRUCTION ACCESS
- WET PRAIRIE/MESIC SEEDING
- UPLAND SEEDING
- WETLAND SEEDING
- EXISTING WETLAND BOUNDARY
- EXISTING STORM SEWER
- EXISTING RUBBLE
- EXISTING TREE

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND FIELD-VERIFYING ALL EXISTING UTILITIES PRIOR TO INITIATING WORK ON THE SITE AND THROUGHOUT THE TERM OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING UTILITIES FROM DAMAGE DURING ALL SITE RESTORATION AND PLANTING OPERATIONS.
2. CONSTRUCTION LIMITS AS SHOWN ARE APPROXIMATE. FINAL CONSTRUCTION LIMITS TO BE COORDINATED WITH THE OWNER AND STAKED IN THE FIELD.
3. CONTRACTOR SHALL TAKE PRECAUTIONS TO MINIMIZE THE TRANSFER OF AQUATIC AND TERRESTRIAL INVASIVE SPECIES TO THE MAXIMUM EXTENT POSSIBLE.
4. ALL EXISTING TREES SHALL BE PROTECTED DURING CONSTRUCTION, UNLESS IDENTIFIED FOR REMOVAL PER PLAN OR AS DIRECTED IN THE FIELD BY THE ENGINEER.
5. ALL EXISTING TREES TO REMAIN, TREE ROOTS, PLANTING BEDS, CONCRETE, ASPHALT, EXISTING CURBS, PAVEMENT, SIDEWALKS, AND OTHER SITE ELEMENTS SHALL BE PROTECTED FROM IMPACTS FROM ALL SOIL PREPARATION AND LANDSCAPING OPERATIONS. AVOID COMPACTING SOIL WITH HEAVY EQUIPMENT. ANY DAMAGE TO EXISTING SITE FEATURES, STRUCTURES, OR NEWLY CONSTRUCTED ITEMS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SATISFACTION.
6. PROTECT PLANTS ON THE SITE FROM STRESS PRIOR TO INSTALLATION BY PLACING IN SHADE, HEELING INTO MULCH, WATERING, AND USE OF OTHER APPROPRIATE MEASURES.
7. ANY COMPACTION OF PREVIOUSLY LOOSENED SOIL MUST BE RELOOSENED PRIOR TO TOPSOILING OR PLANT INSTALLATION. SEE LANDSCAPE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
8. STAKE OR OTHERWISE LAYOUT ALL INDIVIDUAL/SPECIMEN TREES AND SHRUBS AS SHOWN ON PLAN, DETAILS, AND PLANT SCHEDULE. SOME FIELD ADJUSTMENT MAY BE NECESSARY. LANDSCAPE ARCHITECT TO REVIEW PLANT LAYOUT PRIOR TO PLANTING. INFORM THE LANDSCAPE ARCHITECT OF PLANTING A MINIMUM OF THREE (3) DAYS PRIOR TO PLANT DELIVERY.
9. PLACE MULCH AS SPECIFIED TO DEPTH WITHIN ALL PLANTING AREAS.
10. THOROUGHLY WATER ALL PLANTINGS WITHIN 2 HOURS AFTER INSTALLATION, SEE PROJECT SPECIFICATIONS.
11. CONTRACTOR IS RESPONSIBLE FOR WATERING PLANTS (REGARDLESS OF NOTIFICATION) THROUGHOUT THE ENTIRE WARRANTY PERIOD. WATERING WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
12. PROVIDE 6" TOPSOIL, PERMANENT SEEDING, AND EROSION CONTROL BLANKET PER MNDOT 3885 FOR ALL ON- AND OFF-SITE DISTURBED AREAS AS SHOWN ON THE PLANS. SEED ANY DISTURBED AREAS NOT OTHERWISE INDICATED ON THE PLANS WITH TYPE A MIX AT THE SPECIFIED RATE.
13. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN PLANS, SPECIFICATIONS, AND/OR FIELD CONDITIONS ENCOUNTERED.
14. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN THE CASE OF ANY DISCREPANCIES BETWEEN DETAILS, PLANS, AND/OR SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.
15. PROVIDE LANDSCAPE IRRIGATION AS SPECIFIED FOR FOUNDATION PLANTINGS AT TIME OF BUILDING DEVELOPMENT.

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION
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THREE RIVERS PARK DISTRICT
PLYMOUTH, MINNESOTA

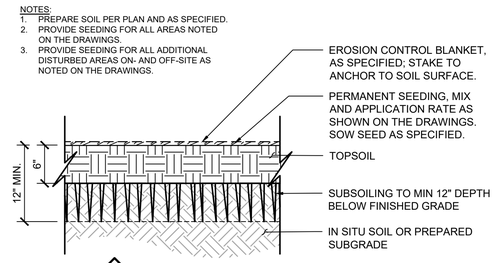
SOCHACKI PARK WQ IMPROVEMENTS
ROBBINSDALE, MINNESOTA
RESTORATION PLAN
GR-6

BARR PROJECT # 2327206000
DWG # L004
REV # A

UPLAND SEED MIX			
Common Name	**Scientific Name**	**Rate (lb/ac)**	**% of Mix (by weight)**
Blue Grama	*Bouteloua gracilis*	0.75	9%
June Grass	*Koeleria macrantha*	0.5	6%
Kalm's Brome	*Bromus kalmii*	0.5	6%
Little Bluestem	*Schizachyrium scoparium*	1.25	16%
Prairie Dropseed	*Sporobolus heterolepis*	0.84	10%
Sideoats Grama	*Bouteloua curtipendula*	1	12%
	Grasses Subtotal	**4.84**	**60%**
Long-beaked Sedge	*Carex sprengelii*	0.125	2%
Path Rush	*Juncus tenuis*	0.06	1%
Plains Oval Sedge	*Carex brevior*	0.3	4%
Slender Wood Sedge	*Carex gracilescens*	0.06	1%
	Sedges & Rushes Subtotal	**0.545**	**7%**
Aromatic aster	*Aster oblongifolius*	0.08	1%
Black-eyed Susan	*Rudbeckia hirta*	0.04	0%
Butterfly weed	*Asclepias tuberosa*	0.06	1%
Button Blazing Star	*Liatris aspera*	0.06	1%
Canada milk vetch	*Astragalus canadensis*	0.06	1%
Columbine	*Aquilegia canadensis*	0.04	0%
Downy Wood Mint	*Blephilia ciliata*	0.0156	0%
Flowering Spurge	*Euphorbia corollata*	0.0156	0%
Goat's Rue	*Tephrosia virginiana*	0.3	4%
Golden Alexanders	*Zizia aurea*	0.1875	2%
Heart-leaf Golden Alexanders	*Zizia aptera*	0.06	1%
Hoary Vervain	*Verbena stricta*	0.06	1%
Large-flowered Beardtongue	*Penstemon grandiflorus*	0.04	0%
Long-headed Coneflower	*Ratibida columnifera*	0.06	1%
Meadow Blazing Star	*Liatris ligulistylis*	0.04	0%
Nodding Onion	*Allium cernuum*	0.04	0%
Ohio Spiderwort	*Tradescantia ohiensis*	0.04	0%
Old Field Goldenrod	*Solidago nemoralis*	0.06	1%
Partridge Pea	*Chamaecrista fasciculata*	0.06	1%
Pasque Flower	*Anemone patens*	0.0156	0%
pearly everlasting	*Anaphalis margaritacea*	0.0156	0%
Prairie Coreopsis	*Coreopsis palmata*	0.05	1%
Prairie Onion	*Allium stellatum*	0.03	0%
Prairie smoke	*Geum triflorum*	0.04	0%
Prairie Violet	*Viola pedatifida*	0.3	4%
Purple prairie clover	*Dalea purpureum*	0.04	0%
Red Baneberry	*Actaea rubra*	0.03	0%
Round-headed Bush Clover	*Lespedeza capitata*	0.07	1%
Solomon's Seal	*Polygonatum canaliculatum*	0.125	2%
Spotted Bee Balm	*Monarda punctata*	0.06	1%
Stiff Goldenrod	*Solidago rigida*	0.125	2%
Tall Thimbleweed	*Anemone virginiana*	0.03	0%
Western Sunflower	*Helianthus occidentalis*	0.04	0%
White Prairie Clover	*Dalea candida*	0.05	1%
White Wild Indigo	*Baptisia alba*	0.08	1%
White Wood Aster	*Aster divaricatus*	0.04	0%
Whorled Milkweed	*Asclepias verticillata*	0.02	0%
Wild Blue Phlox	*Phlox divaricata*	0.0156	0%
Wild Geranium	*Geranium maculatum*	0.125	2%
	Forbs Subtotal	**2.6205**	**33%**
	Total	**8.0055**	**100%**

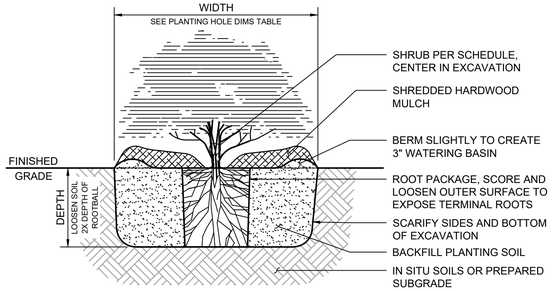
WETLAND SEED MIX			
Common Name	**Scientific Name**	**Rate (lb/ac)**	**% of Mix (by weight)**
American sloughgrass	*Beckmannia syzigachne*	0.65	11.28%
Bluejoint grass	*Calamagrostis canadensis*	0.02	0.35%
Fowl Bluegrass	*Poa palustris*	0.84	14.58%
Fowl Manna Grass	*Glyceria striata*	0.5	8.68%
Virginia wild rye	*Elymus virginicus*	1.30	22.57%
	Grasses Subtotal	**3.31**	**57%**
Common Wood Sedge	*Carex blanda*	0.03	0.52%
Field Oval Sedge	*Carex molesta*	0.125	2.17%
Dark Green Bulrush	*Scirpus atrovirens*	0.17	2.95%
Long-beaked Sedge	*Carex sprengelii*	0.0625	1.09%
Porcupine sedge	*Carex hystericina*	0.09	1.56%
	Sedges & Rushes Subtotal	**0.4775**	**8%**
Bloodroot	*Sanguinaria canadensis*	0.0625	1.09%
Boneset	*Eupatorium perfoliatum*	0.03	0.52%
Calico Aster	*Aster lateriflorus*	0.0625	1.09%
Canada milk vetch	*Astragalus canadensis*	0.125	2.17%
Columbine	*Aquilegia canadensis*	0.125	2.17%
Early Meadow Rue	*Thalictrum dioicum*	0.125	2.17%
Golden Alexanders	*Zizia aurea*	0.20	3.47%
Great Blue Lobelia	*Lobelia siphilitica*	0.02	0.35%
Marsh Betony	*Pedicularis lanceolata*	0.03	0.52%
Marsh Marigold	*Caltha palustris*	0.01	0.17%
Monkey Flower	*Mimulus ringens*	0.02	0.06%
Nodding Bur Marigold	*Bidens cernua*	0.05	0.87%
Obedient Plant	*Physostegia virginiana*	0.02	0.35%
Panicled Aster	*Symphyotrichum lanceolatum*	0.03	0.52%
Partridge Pea	*Chamaecrista fasciculata*	0.0625	1.09%
Red Baneberry	*Actaea rubra*	0.0625	1.09%
Riddell's Goldenrod	*Solidago riddellii*	0.01	0.17%
Sneezeweed	*Helenium autumnale*	0.06	1.04%
Solomon's Plume	*Smilacina racemosa*	0.0625	1.09%
Solomon's Seal	*Polygonatum canaliculatum*	0.125	2.17%
Stiff Goldenrod	*Solidago rigida*	0.125	2.17%
Swamp Milkweed	*Asclepias incarnata*	0.06	1.04%
Virginia mountain mint	*Pycnanthemum virginianum*	0.06	1.04%
Wild Bergamot	*Monarda fistulosa*	0.3	5.21%
Wild Geranium	*Geranium maculatum*	0.125	2.17%
Winged Loosestrife	*Lythrum alatum*	0.01	0.17%
	Forbs Subtotal	**1.9725**	**34%**
	Total	**5.76**	**100%**

WET PRAIRIE/MESIC SEED MIX			
Common Name	**Scientific Name**	**Rate (lb/ac)**	**% of Mix (by weight)**
Fowl Bluegrass	*Poa palustris*	0.84	11.60%
Little Bluestem	*Schizachyrium scoparium*	2	27.62%
Riverbank wild rye	*Elymus riparius*	0.30	4.14%
Virginia wild rye	*Elymus virginicus*	1.30	17.96%
	Grasses Subtotal	**4.44**	**61%**
Common Wood Sedge	*Carex blanda*	0.03	0.41%
Field Oval Sedge	*Carex molesta*	0.125	1.73%
Fox Sedge	*Carex vulpinoidea*	0.3	4.14%
Long-beaked Sedge	*Carex sprengelii*	0.0625	0.86%
	Sedges & Rushes Subtotal	**0.5175**	**7%**
Black-eyed Susan	*Rudbeckia hirta*	0.04	0.55%
Bloodroot	*Sanguinaria canadensis*	0.0625	0.86%
Boneset	*Eupatorium perfoliatum*	0.03	0.41%
Calico Aster	*Aster lateriflorus*	0.0625	0.86%
Canada milk vetch	*Astragalus canadensis*	0.125	1.73%
Columbine	*Aquilegia canadensis*	0.125	1.73%
Early Meadow Rue	*Thalictrum dioicum*	0.125	1.73%
Golden Alexanders	*Zizia aurea*	0.20	2.76%
Great Blue Lobelia	*Lobelia siphilitica*	0.02	0.28%
Marsh Betony	*Pedicularis lanceolata*	0.03	0.41%
Nodding Onion	*Allium cernuum*	0.03	0.41%
Obedient Plant	*Physostegia virginiana*	0.02	0.28%
Panicled Aster	*Symphyotrichum lanceolatum*	0.03	0.41%
Partridge Pea	*Chamaecrista fasciculata*	0.0625	0.86%
Red Baneberry	*Actaea rubra*	0.0625	0.86%
Sneezeweed	*Helenium autumnale*	0.06	0.83%
Solomon's Plume	*Smilacina racemosa*	0.0625	0.86%
Solomon's Seal	*Polygonatum canaliculatum*	0.125	1.73%
Stiff Goldenrod	*Solidago rigida*	0.125	1.73%
Swamp Milkweed	*Asclepias incarnata*	0.06	0.83%
Virginia mountain mint	*Pycnanthemum virginianum*	0.06	0.83%
Western Sunflower	*Helianthus occidentalis*	0.04	0.55%
Wild Bergamot	*Monarda fistulosa*	0.3	4.14%
Wild Garlic	*Allium canadense*	0.3	4.14%
Wild Geranium	*Geranium maculatum*	0.125	1.73%
	Forbs Subtotal	**2.2825**	**32%**
	Total	**7.24**	**100%**

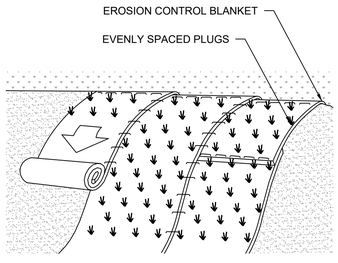


1 DETAIL: PERMANENT SEEDING
NOT TO SCALE

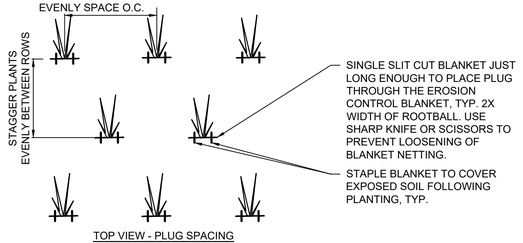
NOTES:
1. EXCAVATE SOIL AS REQUIRED. REFER TO TREE PLANTING HOLE DIMENSION REFERENCE TABLE. PREPARE PLANTING SOIL PER PLAN AND AS SPECIFIED.
2. SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING.
3. PREPARE PLANTING SOIL AS SPECIFIED. SOIL MUST BE PRE-MIXED OR MIXED TO A UNIFORM TEXTURE ON SITE PRIOR TO PLACEMENT.
4. REMOVE AND DISPOSE OF THE ROOT PACKAGING MATERIAL AS NOTED AND PERFORM ANY CORRECTIVE PRUNING OF TOP AND ROOTS AS SPECIFIED TO PREPARE THE SHRUB FOR PLANTING.
5. SET SHRUB ON IN SITU SOIL OR THOROUGHLY-COMPACTED BACKFILL AND PLUMB.
6. BACKFILL AROUND PREPARED ROOT PACKAGE WITH PLANTING SOIL WITH 6" MAX. LIFTS. GENTLY FIRM SOIL AROUND THE ROOT MASS WITH EACH LIFT TO MAINTAIN PLUMB.
7. WATER THOROUGHLY WITHIN 2 HOURS AFTER PLANTING TO FILL VOIDS. BACKFILL ANY VOIDS CREATED DURING INITIAL WATERING AND RE-WATER.
8. APPLY MULCH OVER SOIL SURFACE AT THE BASE OF THE SHRUB IMMEDIATELY AFTER PLANTING. ENSURE NO MULCH IS IN CONTACT WITH THE BASE OF SHRUB AT FINISHED GRADE.
9. MAINTAIN SHRUB IN A PLUMB POSITION THROUGHOUT THE INITIAL ESTABLISHMENT PERIOD.



2 DETAIL: SHRUB PLANTING
NOT TO SCALE

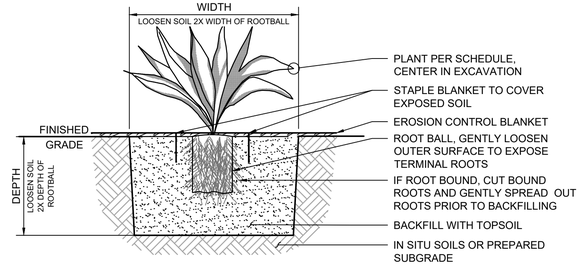


AXON VIEW



TOP VIEW - PLUG SPACING

PLUG PLANTING PREPARATION NOTES:
1. PREPARE SOIL BY LOOSENING TOP 1-2 INCHES AND APPLY SEED PRIOR TO INSTALLING BLANKETS. GROUND SHOULD BE SMOOTH AND FREE OF DEBRIS.
2. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP, WITH THE UPHILL BLANKET ON TOP.
3. BLANKET MATERIALS SHALL BE AS SPECIFIED OR AS APPROVED BY ENGINEER.
4. REFER TO MANUFACTURER RECOMMENDATIONS FOR STAPLE PATTERNS FOR INSTALLATIONS.
5. INSTALL LIVE PLUGS FOLLOWING PROPER INSTALLATION OF EROSION CONTROL BLANKET.



DETAIL - PLUG PLANTING

PLUG PLANTING NOTES:
1. USE SHARP KNIFE OR SCISSORS TO CREATE A SINGLE CUT IN THE EROSION CONTROL BLANKET.
2. EXCAVATE SOIL AND PREPARE PLANTING SOIL PER PLAN AND AS SPECIFIED.
3. SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING.
4. PREPARE PLANTING SOIL AS SPECIFIED. SOIL MUST BE PRE-MIXED OR MIXED TO A UNIFORM TEXTURE ON SITE PRIOR TO PLACEMENT.
5. REMOVE AND DISPOSE OF THE ROOT PACKAGING MATERIAL AS NOTED. SCARIFY BOTTOM AND OUTER PERIMETER OF ROOTBALL TO LOOSEN ROOTS AND PREPARE THE PLANT FOR PLANTING.
6. SET PLANT ON IN SITU SOIL IN EXCAVATION AND PLUMB.
7. BACKFILL AROUND PREPARED ROOT PACKAGE WITH PLANTING SOIL. GENTLY FIRM SOIL AROUND THE ROOT MASS TO MAINTAIN PLUMB.
8. STAPLE EROSION CONTROL BLANKET AROUND PLUG TO COVER ANY EXPOSED SOIL.
9. WATER THOROUGHLY WITHIN 2 HOURS AFTER PLANTING TO FILL VOIDS. BACKFILL ANY VOIDS CREATED DURING INITIAL WATERING AND RE-WATER.
10. MAINTAIN PLANT IN A PLUMB POSITION THROUGHOUT THE INITIAL ESTABLISHMENT PERIOD.

3 DETAIL: PLUG PLANTING
NOT TO SCALE

PRELIMINARY DRAFT
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