PRELIMINARY SITE CONSTRUCTION PLANS

FOR

PLYMOUTH CREEK REPAIR

PLYMOUTH, MN

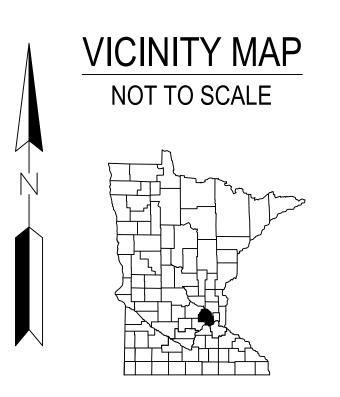
Project Team

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PROJECT LOCATION

CITY: PLYMOUTH
COUNTY: HENNEPIN

SUE DATE:

Other plane of plane plan

COVER SHEET

SHEET NO.:

G-101

SHEET TITLE:

- 1. CITY OF PLYMOUTH STANDARD SPECIFICATIONS AND REQUIREMENTS.
- 2. MINNESOTA DEPARTMENT OF TRANSPORTATION (MN/DOT) "STANDARD SPECIFICATIONS FOR CONSTRUCTION" LATEST EDITION AND SUPPLEMENTS.
- 3. CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) STANDARD SPECIFICATIONS FOR UTILITIES LATEST EDITION.
- 4. APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES

GENERAL NOTES

- 1. NO WORK IS ALLOWED BELOW THE ORDINARY HIGH WATER LEVEL OF THE CREEK BETWEEN MARCH 15 AND JUNE 15 DUE TO FISH SPAWNING HABITAT AND DNR WORK IN PUBLIC WATERS EXCLUSION DATES.
- 2. UNTIL REVISION BLOCK STATES "ISSUED FOR CONSTRUCTION", THE PLAN SET IS NOT CERTIFIED FOR CONSTRUCTION.
- 3. EXISTING CONDITIONS SHOWN ARE FROM A COMBINATION OF TOPOGRAPHIC SURVEY AND LIDAR DATA COMPLETED BY THE CITY OF PLYMOUTH, DATED MAY 6, 2022. EXISTING FEATURES MAY NOT BE EXACT TO THEIR LOCATION. CONTRACTOR RESPONSIBLE FOR VERIFYING THE CONDITIONS OF THE SITE AND MUST IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES OR VARIATIONS FROM THE DRAWINGS.
- 4. CONTRACTOR RESPONSIBLE FOR CONTACTING GOPHER STATE ONE CALL (1-800-252-1166) A MINIMUM OF 48 HOURS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) BEFORE STARTING WORK FOR LOCATIONS OF UNDERGROUND UTILITIES.
- 5. CONTRACTOR SHALL ANTICIPATE PRIVATE UTILITY CONFLICTS THROUGHOUT THE PROJECT AREAS AND MUST COORDINATE THE RELOCATION OR PROTECTION OF EXISTING UTILITIES.
- 6. QUANTITIES ARE APPROXIMATE, AND MAY VARY TO ALLOW COMPLETION OF WORK.
- 7. WORK AND MATERIALS MUST COMPLY WITH CITY, COUNTY, STATE, AND FEDERAL (INCLUDING OSHA) REGULATIONS AND CODES.
- 8. CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS TO ADJACENT PROPERTIES THROUGHOUT CONSTRUCTION.
- 9. CONTRACTOR SHALL COORDINATE AND MAINTAIN MAIL, GARBAGE, AND RECYCLING SERVICES TO PROPERTIES THROUGHOUT CONSTRUCTION.
- 10.CONSTRUCTION LIMITS ARE TO PROPERTY LINE UNLESS SHOWN OR NOTED OTHERWISE. CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITIES TO AREAS DESIGNATED ON PLANS WITHIN THE CONSTRUCTION LIMITS.
- 11.CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING PAVEMENT, SITE FEATURES, UTILITIES, TREES, ETC., UNLESS NOTED OR SHOWN OTHERWISE.
- 12.EXISTING PAVEMENT AND SITE CONDITIONS HAVE BEEN DOCUMENTED, AND ANY DAMAGE TO THE EXISTING PAVEMENT, CURBING, STRIPING, OR OTHER SITE FEATURE TO REMAIN MUST BE REPLACED BY THE CONTRACTOR, TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST TO THE OWNER.
- 13.CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION AND WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES.
- 14.CONTRACTOR MUST IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS ARE TO BE MADE WITHOUT PRIOR APPROVAL FROM THE OWNER AND ENGINEER. FAILURE TO NOTIFY OWNER AND ENGINEER OF AN IDENTIFIABLE CONFLICT BEFORE PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
- 15.CONTRACTOR SHALL HAVE ONE COPY OF EACH REQUIRED CONSTRUCTION PERMIT AND ONE COPY OF THE MOST CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT, SPECIAL CONDITIONS AND PROVISIONS, ETC.) AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- 16.CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR IMPLEMENTATION AND ENFORCEMENT OF SAFE WORK PRACTICES, INCLUDING BUT NOT LIMITED TO PERSONNEL MONITORING, USE OF TRENCHING, SHEETING, AND SHORING, SCAFFOLDING; MATERIALS HANDLING AND DRILLING; OPERATION OF EQUIPMENT; AND SAFETY OF PUBLIC DURING PROGRESS OF WORK.
- 17.CONTRACTOR SHALL PLAN FOR AND ENSURE PERSONNEL COMPLY WITH PROVISIONS OF OSHA SAFETY AND HEALTH STANDARDS (29 CFR 1910) AND GENERAL CONSTRUCTION STANDARDS (29 CFR 1926) AS APPROPRIATE.
- 18.CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH WORK. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS FOR SAFETY OF EMPLOYEES ON PROJECT SITE AND OTHER PERSONS AND ORGANIZATIONS WHO MAY BE AFFECTED BY THE PROJECT. CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR SAFETY IN CONNECTION WITH WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL WORK IS COMPLETED, AND ENGINEER HAS ISSUED NOTICE TO CONTRACTOR THAT WORK IS COMPLETE.
- 19.HAZARDOUS MATERIALS, INCLUDING BUT NOT LIMITED TO OIL, GASOLINE, PAINT AND OTHER HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, BY THE CONTRACTOR, INCLUDING SECONDARY CONTAINMENTS, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH MCPA REGULATIONS. CONTRACTOR SHALL REMOVE SPILL OF FUELS, OILS, OR OTHER CHEMICALS IMMEDIATELY UPON DETECTION.

REMOVAL / DEMOLITION NOTES

- 1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- 2. CONTRACTOR SHALL REVIEW FEATURES NOT SPECIFICALLY IDENTIFIED ON PLAN FOR SALVAGE OR REMOVAL THAT CONFLICT WITH CONSTRUCTION WITH THE ENGINEER.
- 3. MATERIALS REMOVED/DEMOLISHED BY CONTRACTOR BECOME PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL LOAD AND HAUL MATERIAL OFF-SITE AND PROPERLY DISPOSE OF MATERIALS IN ACCORDANCE WITH APPLICABLE REGULATIONS. CONTRACTOR MUST LEAVE THE SITE IN A CONDITION TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- 4. IN THE EVENT THAT UNKNOWN CONTAINERS OR TANKS ARE ENCOUNTERED, THE CONTRACTOR MUST CONTACT THE ENGINEER IMMEDIATELY. ALL CONTAINERS OR TANKS MUST BE DISPOSED OF PROPERLY AT A REGULATED/PERMITTED FACILITY.
- 5. CONTRACTOR SHALL REVIEW ALL TREE REMOVALS WITH THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO REMOVAL OPERATIONS.
- 6. CLEARING AND GRUBBING OPERATIONS MUST COMPLY WITH THE FOLLOWING:
- A. PROTECT ALL TREES AND PLANTS NOT DESIGNATED FOR REMOVAL.
- B. CONDUCT OPERATIONS IN SUCH A MANNER THAT DOES NOT DAMAGE PROTECTED TREES AND VEGETATION.
- C. CUT, REMOVE, AND DISPOSE OF TREES, BRUSH, SHRUBS, WINDFALLS, LOGS, STUMPS, ROOTS, FALLEN TIMBER, AND OTHER VEGETATION NOT DESIGNATED FOR HARVEST OR REUSE.
- D. BACKFILL DEPRESSIONS WITH NATIVE SOILS OR SUITABLE FILL MATERIAL AS REQUIRED BY DESIGN OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND COMPACT BACKFILL AS DIRECTED.
- ${\sf E.} \quad {\sf DISPOSE} \ {\sf OF} \ {\sf DEBRIS} \ {\sf IN} \ {\sf ACCORDANCE} \ {\sf WITH} \ {\sf APPLICABLE} \ {\sf REGULATIONS}.$
- F. CONSIDER BENEFICIAL USE DESIGNATIONS FOR UNADULTERATED WOOD, WOOD CHIPS, BARK AND SAWDUST.
- G. NO BURYING OF CLEARED AND GRUBBED WASTE WITHIN THE CONSTRUCTION LIMITS.

EROSION CONTROL NOTES

- 1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- 2. CONTRACTOR SHALL CONFORM TO AND CONDUCT INSPECTIONS IN ACCORDANCE WITH THE NPDES PERMIT AND SWPPP REQUIREMENTS.
- 3. BEFORE SITE DISTURBANCE AND AS REQUIRED AS CONSTRUCTION PROGRESSES, CONTRACTOR SHALL INSTALL, MAINTAIN, REPAIR, AND REPLACE EROSION PREVENTION MEASURES AND SEDIMENT CONTROL DEVICES (INLET PROTECTION, CONSTRUCTION ENTRANCE, SILT FENCE, TEMPORARY EROSION PREVENTION BLANKET, ETC.) IN
- 4. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION. COORDINATE WITH ENGINEER.

ACCORDANCE WITH THE SWPPP, NPDES PERMIT, AND CITY, STATE, AND WATERSHED DISTRICT PERMITS.

- 5. CONTRACTOR SHALL STABILIZE ALL EXPOSED SOIL AREAS WITHIN THE CONSTRUCTION LIMITS WITHIN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE THAT HAS TEMPORARILY (WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS) OR PERMANENTLY CEASED. STABILIZATION MUST BE INITIATED PROMPTLY.
- 6. CONTRACTOR SHALL REMOVE ANY SEDIMENT THAT HAS TRACKED ONTO PAVED SURFACES BOTH ON AND OFFSITE WITHIN 24 HOURS AND AS DIRECTED BY CITY, OWNER, ENGINEER. SWEEP STREET IN ACCORDANCE WITH CITY, COUNTY, STATE AND NDPES PERMIT REQUIREMENTS.
- 7. CONTRACTOR SHALL PHASE GRADING WORK TO MINIMIZE THE DURATION THAT DISTURBED SOIL IS EXPOSED.
- 8. CONTRACTOR SHALL LOCATE SOIL STOCKPILES NO LESS THAN 50 FEET FROM ROADWAYS, STORMWATER INLETS, PONDS, WETLANDS, DRAINAGE CHANNELS, AND OTHER SURFACE WATERS. IF REMAINING FOR MORE THAN 7 DAYS, STABILIZE THE STOCKPILES BY MULCHING, VEGETATED COVER, TARPS, OR OTHER MEANS IN ACCORDANCE WITH THE NPDES PERMIT. PLACE PERIMETER SEDIMENT CONTROLS AROUND STOCKPILES TO CONTROL EROSION. COVER TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES IF LEFT FROM MORE THAN 24 HOURS.
- 9. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL MEASURES AFTER SITE HAS BEEN STABILIZED AND VEGETATION IS ESTABLISHED AS DIRECTED BY ENGINEER. EROSION CONTROL MEASURES USED FOR CONSTRUCTION MUST NOT BE REMOVED UNTIL AUTHORIZED BY OWNER OR ENGINEER.
- 10.STREAMBANK STABILIZATION PRACTICES SHALL CONSIST OF TWO LAYERS OF EROSION PREVENTION BLANKET. TEMPORARY EROSION PREVENTION BLANKET, CATEGORY 20 NATURAL FIBER NETTING WILL BE ON THE BOTTOM AGAINST THE GROUND. WITH TEMPORARY EROSION PREVENTION BLANKET, CATEGORY 37 ROLANKA BIOD-MAT 40, OR APPROVED EQUIVALENT OVER THE TOP. BOTH BLANKETS WILL BE STAKED INTO THE GROUND TOGETHER WITH WOOD STAKES AS SPECIFIED.
- 11.MN STATE SEED MIXES USED ON THIS PROJECT INCLUDE:
- 11.1. 25-131 LOW MAINTENANCE TURF MIX SEEDED AT 220 LB/ACRE FOR ALL TURF GRASS RESTORATION AREAS.
- 11.2. 34-261 RIPARIAN SOUTH & WEST MIX SEEDED AT 31.5 LB/ACRE FOR ALL STABILIZED STREAMBANK AND BRUSH MATTRESS AREAS.

GRADING NOTES

- 1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION
- 2. PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE, UNLESS NOTED OTHERWISE.
- 3. THE SITE HAS NOT NECESSARILY BEEN DESIGNED TO BALANCE THE ON-SITE MATERIALS. ADDITIONAL ONSITE EXCAVATION OF SOIL MAY BE NECESSARY TO ACHIEVE THE FINAL GRADES SHOWN ON THE DRAWINGS. CONTRACTOR SHALL COORDINATE ADDITIONAL ONSITE BORROW AREAS WITH OWNER AND ENGINEER. EXCESS MATERIAL, UNLESS NOTED OTHERWISE, IS THE PROPERTY OF THE CONTRACTOR AND IS TO BE MOVED AND DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE LAWS.
- 4. CONTRACTOR SHALL PROVIDE TOPSOIL, SEED/SOD, AND MULCH IN ACCORDANCE WITH THE SITE PLAN.
- 5. ALL DISTURBED PERVIOUS AREAS ARE TO RECEIVE _6_ INCHES OF IMPORTED TOPSOIL, UNLESS NOTED OTHERWISE

DEWATERING NOTES

- CONTRACTOR SHALL ANTICIPATE BASE FLOW AND STOMRWATER RUNOFF IN THE CREEK CHANNEL. NO BID ITEM HAS
 BEEN PROVIDED FOR DEWATERING AS ALL DEWATERING WORK NECESSARY FOR CONSTRUCTION WILL BE CONSIDERED
 INCIDENTAL TO OTHER WORK.
- 2. CONTRACTOR SHALL OBTAIN APPLICABLE REQUIRED PERMITS (INCLUDING MN DNR WATER APPROPRIATION PERMIT) AND SUBMIT DEWATERING PLAN TO ENGINEER FOR REVIEW. DEWATERING MUST MEET PERMIT REQUIREMENTS AND BE ACCEPTED BEFORE STARTING CONSTRUCTION ACTIVITIES.
- 3. CONTRACTOR MUST DEWATER IN ACCORDANCE WITH THE PROJECT SWPPP AND NPDES PERMIT.
- 4. CONTRACTOR MUST DISCHARGE TURBID OR SEDIMENT-LADEN WATER RELATED TO DEWATERING OR BASIN DRAINING (E.G. PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. CONTRACTOR MAY DISCHARGE FROM THE TEMPORARY OR PERMANENT SEDIMENTATION BASINS TO THE SURFACE WATERS IF THE BASIN WATER HAS BEEN VISUALLY CHECKED TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED IN THE BASIN AND THAT NUISANCE CONDITIONS (SEE MINNESOTA RULES CHAPTER 7050.0210, SUBPART 2) WILL NOT RESULT FROM THE DISCHARGE. IF THE WATER CANNOT BE DISCHARGED TO A SEDIMENTATION BASIN PRIOR TO ENTERING THE SURFACE WATER, IT MUST BE TREATED WITH THE APPROPRIATE BMPs (E.G. SILT BAGS), SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE RECEIVING WATER OR DOWNSTREAM PROPERTIES. IF THE CONTRACTOR MUST DISCHARGE WATER THAT CONTAINS OIL OR GREASE, THE CONTRACTOR MUST USE AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE (E.G. CARTRIDGE FILTERS, ABSORBENTS PADS) PRIOR TO DISCHARGING THE WATER. THE CONTRACTOR MUST ENSURE THAT DISCHARGE POINTS ARE ADEQUATELY PROTECTED FROM EROSION AND SCOUR. THE DISCHARGE MUST BE DISPERSED OVER NATURAL ROCK RIPRAP, SANDBAGS, PLASTIC SHEETING, OR OTHER ACCEPTED ENERGY DISSIPATION MEASURES.
- 5. CONTRACTOR MUST DISCHARGE WATER FROM DEWATERING OR BASIN-DRAINING ACTIVITIES IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS, EROSION IN RECEIVING CHANNELS OR ON DOWN SLOPE PROPERTIES, OR INUNDATION IN WETLANDS CAUSING SIGNIFICANT ADVERSE IMPACT TO THE WETLAND.
- 6. IF THE CONTRACTOR IS USING FILTERS WITH BACKWASH WATER, THE CONTRACTOR MUST 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. THE CONTRACTOR MAY DISCHARGE BACKWASH WATER TO THE SANITARY SEWER IF PERMISSION IS GRANTED BY THE SANITARY SEWER AUTHORITY. THE CONTRACTOR MUST REPLACE AND CLEAN THE FILTER MEDIA USED IN DEWATERING DEVICES WHEN REQUIRED TO RETAIN ADEQUATE FUNCTION.

TREE PRESERVATION NOTES

- 1. CONTRACTOR SHALL PROTECT EXISTING TREES THAT ARE NOT TO BE REMOVED. DO NOT PERFORM ACTIONS WITHIN THE DRIP LINE AREA THAT MAY HARM THE TREE AND COMPACT THE SOIL, INCLUDING EXCAVATION, STORING MATERIALS, PARKING AND TRAFFIC DURING CONSTRUCTION. WHERE CONSTRUCTION REQUIRES DISTURBANCE WITHIN THE PROTECTED AREAS, DISTURB THE ROOT ZONE AS LITTLE AS POSSIBLE.
- 2. WHEN TREE ROOTS ARE ENCOUNTERED THAT MUST BE REMOVED, CONTRACTOR SHALL CUT ROOTS CLEANLY AS FAR FROM THE TREE AS POSSIBLE AND IMMEDIATELY WATER AND BACKFILL OVER THE ROOTS TO PREVENT DRYING.

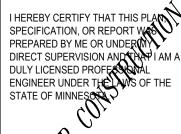
HORIZONTAL AND VERTICAL CONTROL NOTES

- 1. THE HORIZONTAL CONTROL FOR THIS PLAN IS NAD83 HENNEPIN COUNTY COORDINATES SYSTEM US FOOT.
- 2. THE VERTICAL CONTROL FOR THIS PLAN IS NAVD88

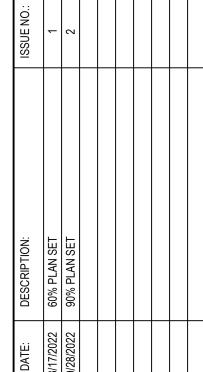
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CERTIFICATION:



SUB CONSULTANT:



PLYMOUTH CREEK REPAIR

CLIENT:



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 PROJECT NO.:
 0017-01

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 CHK'D BY:
 APP'D BY:

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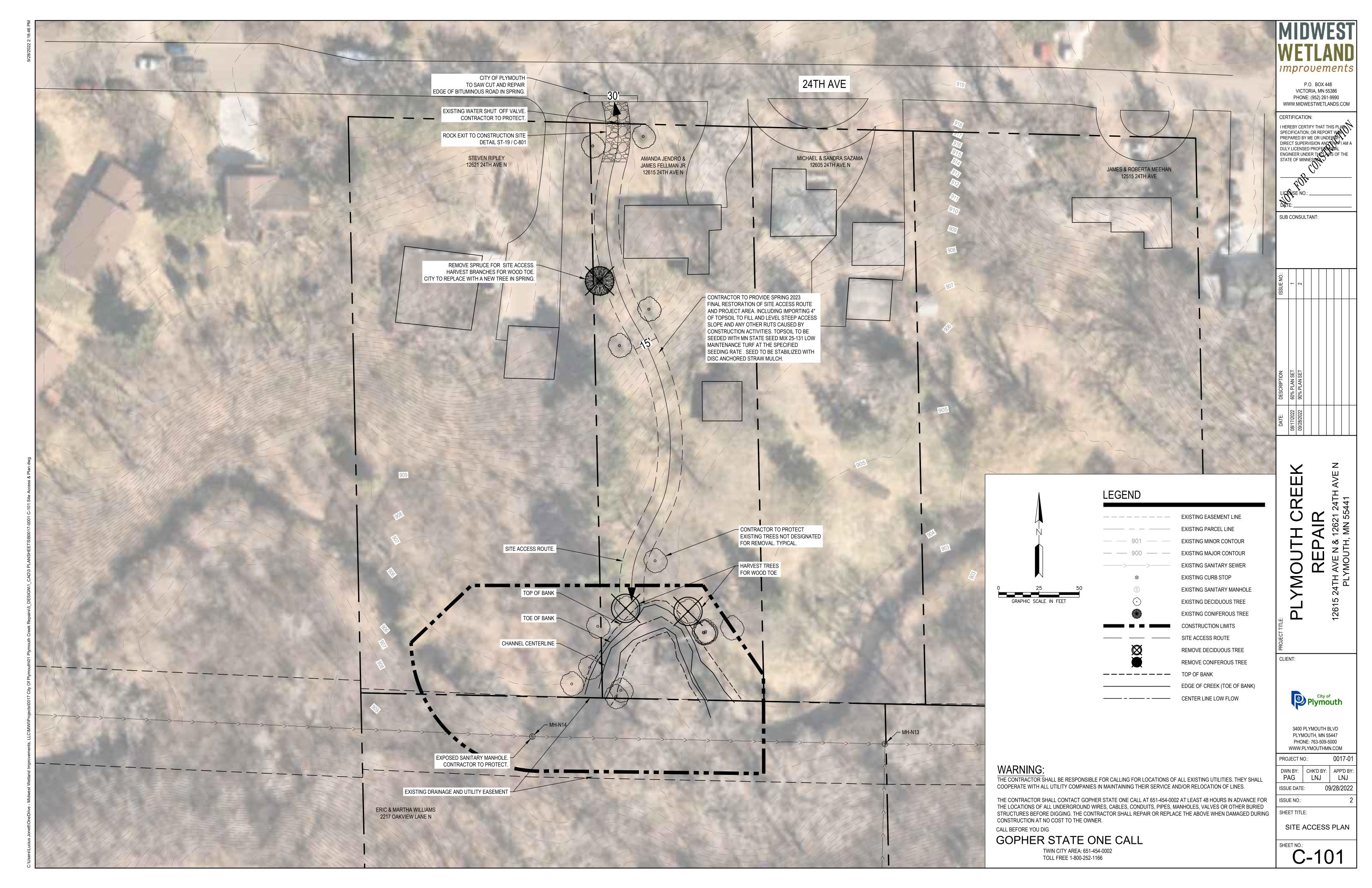
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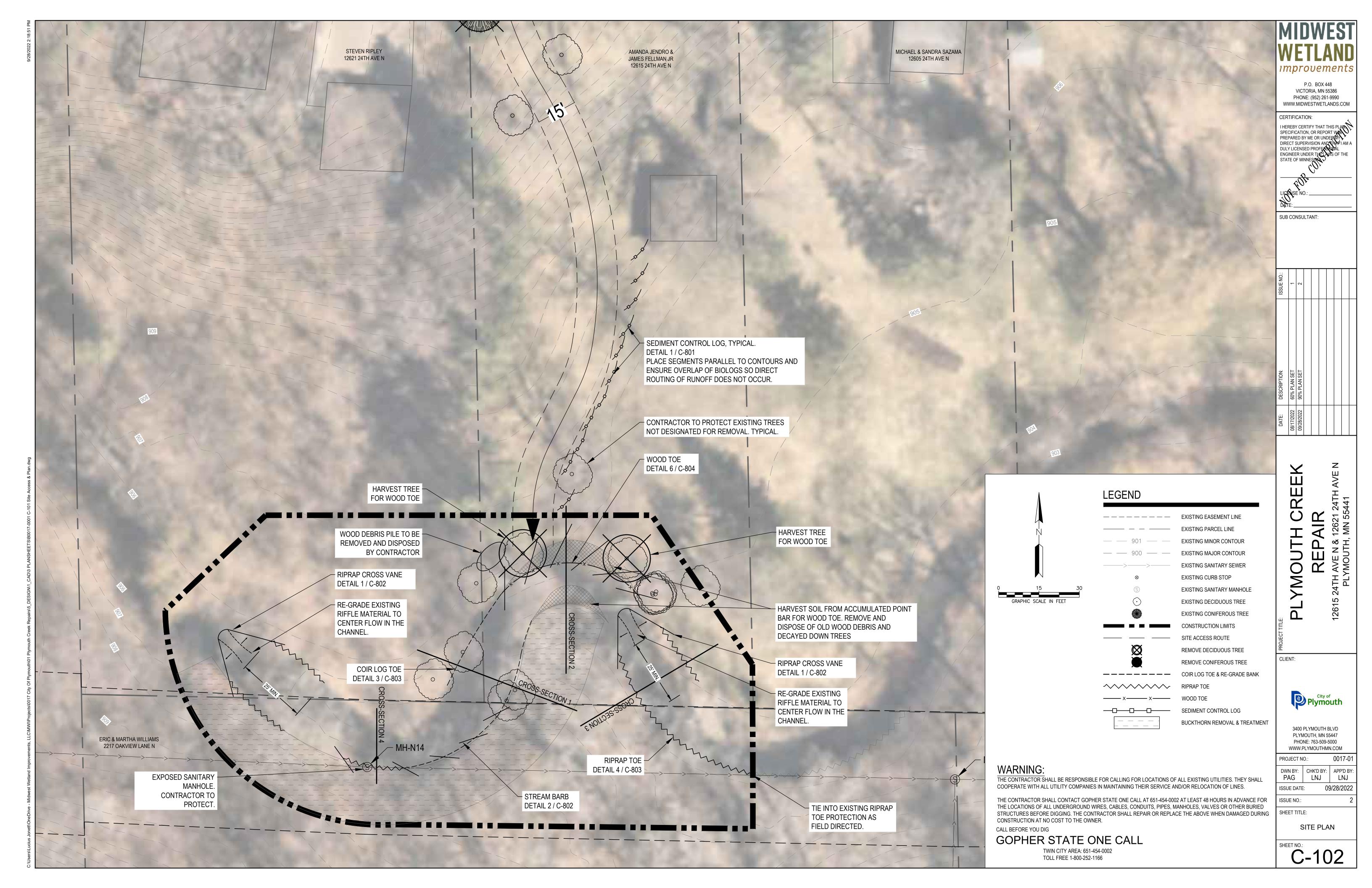
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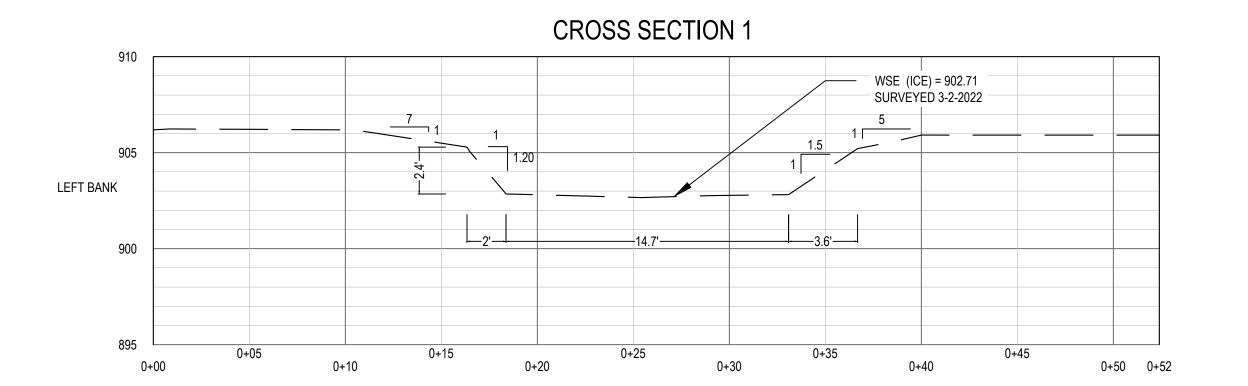
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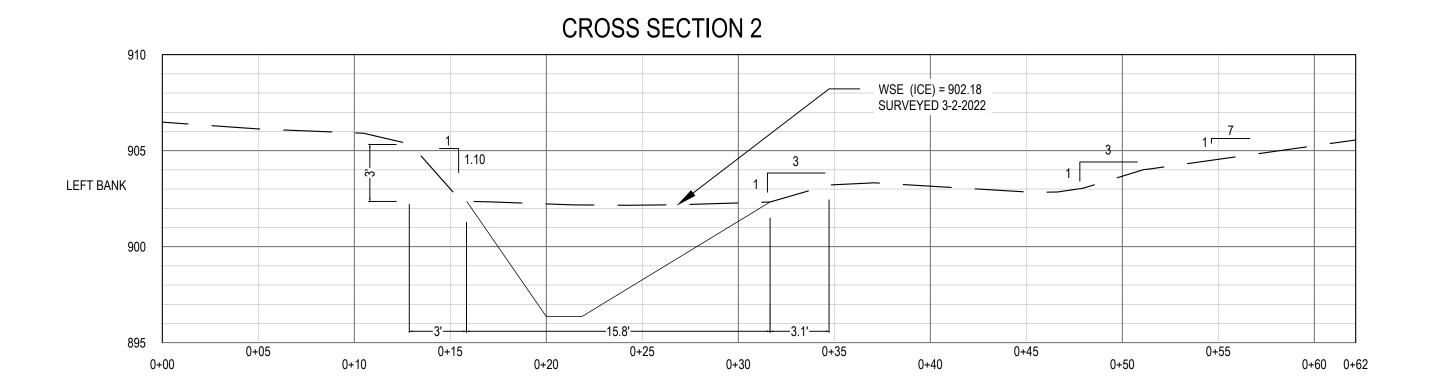
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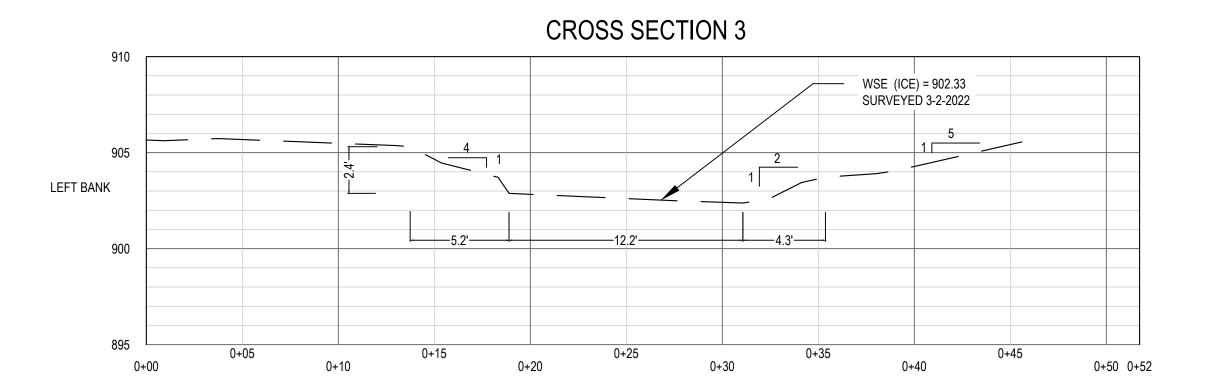
G-102













LEFT BANK

LEFT BANK

MIDWEST WETLAND Improvements

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CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDERMY DIRECT SUPERVISION AND THAP I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

LICENSE NO.:_____

SUB CONSULTANT:

60% PLAN SET 90% PLAN SET

PLYMOUTH CREEK
REPAIR
12615 24TH AVE N & 12621 24TH AVE N

CLIENT:



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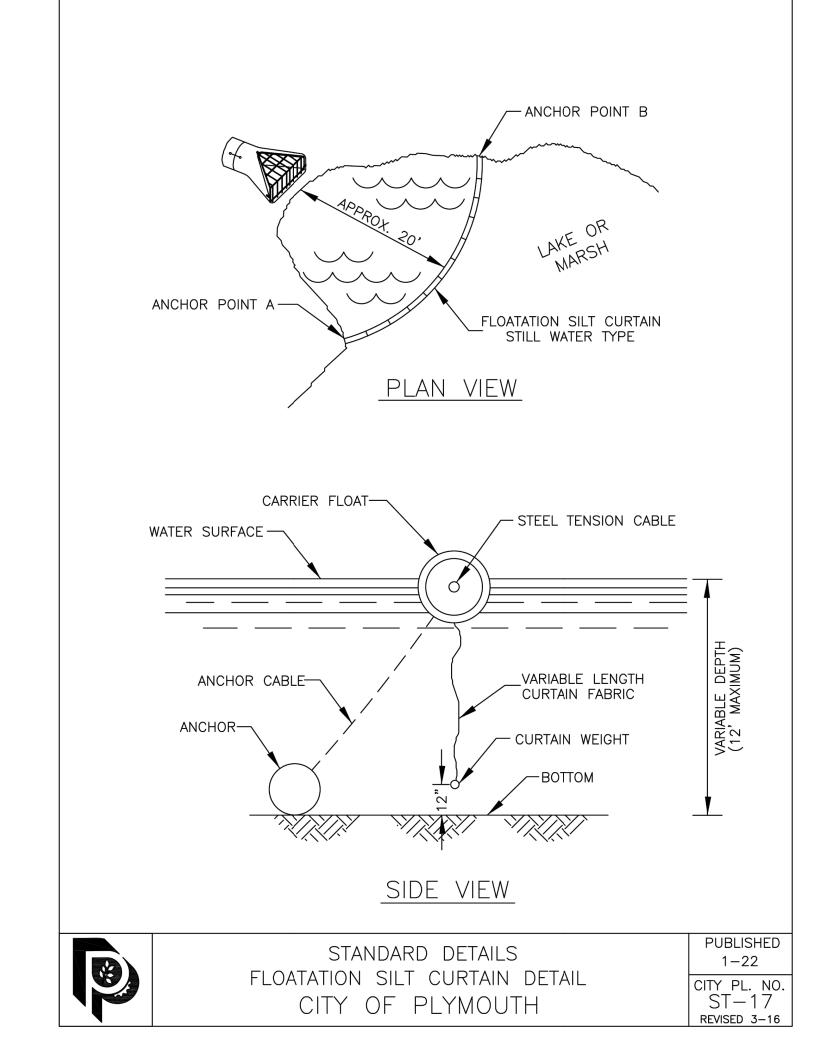
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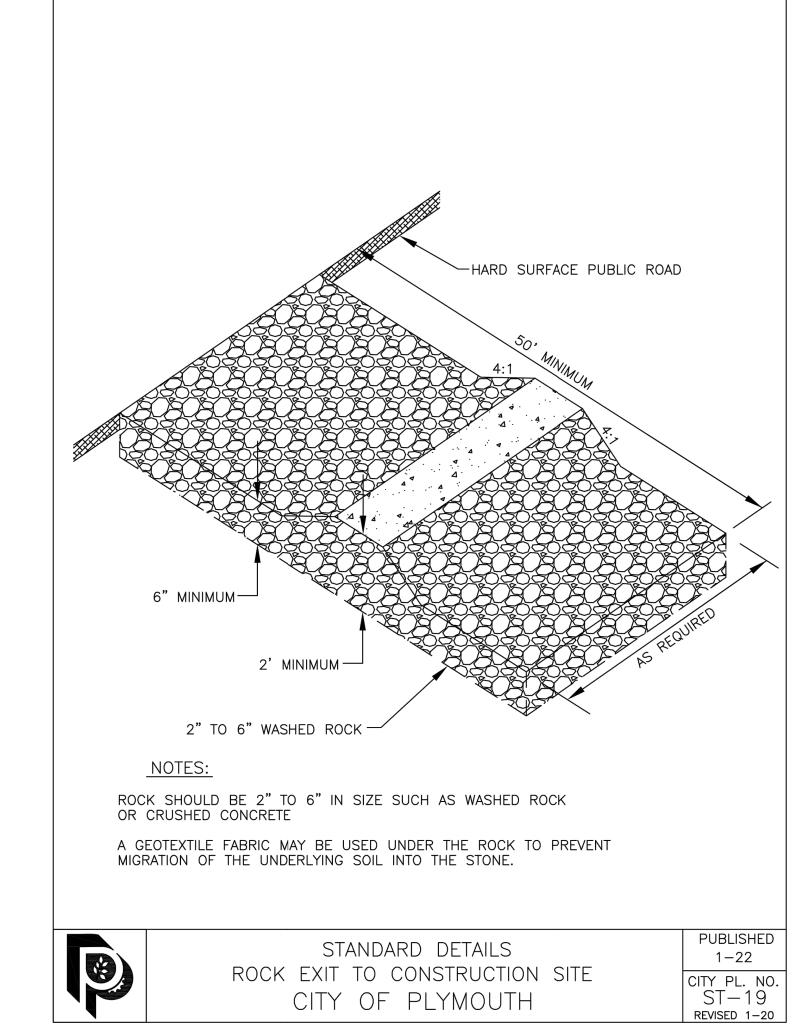
CHANNEL CROSS SECTIONS

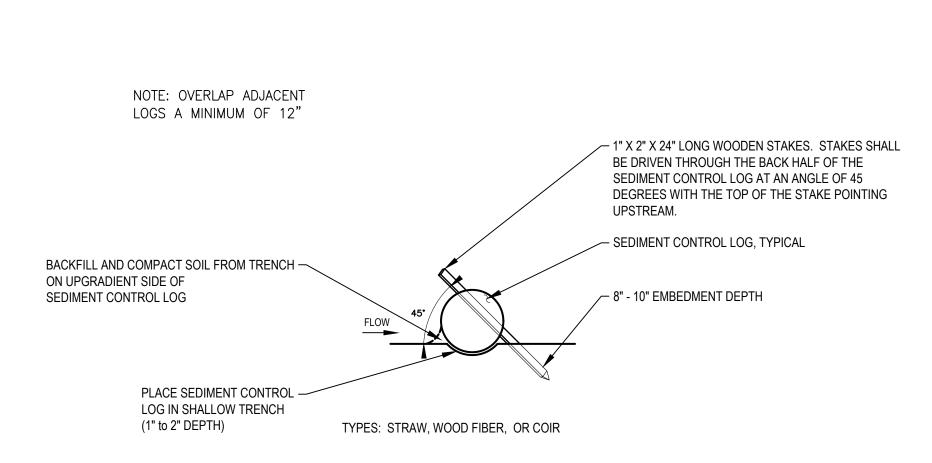
SHEET NO.: **C-201** STANDARD DETAILS

SILT FENCE DETAIL

CITY OF PLYMOUTH







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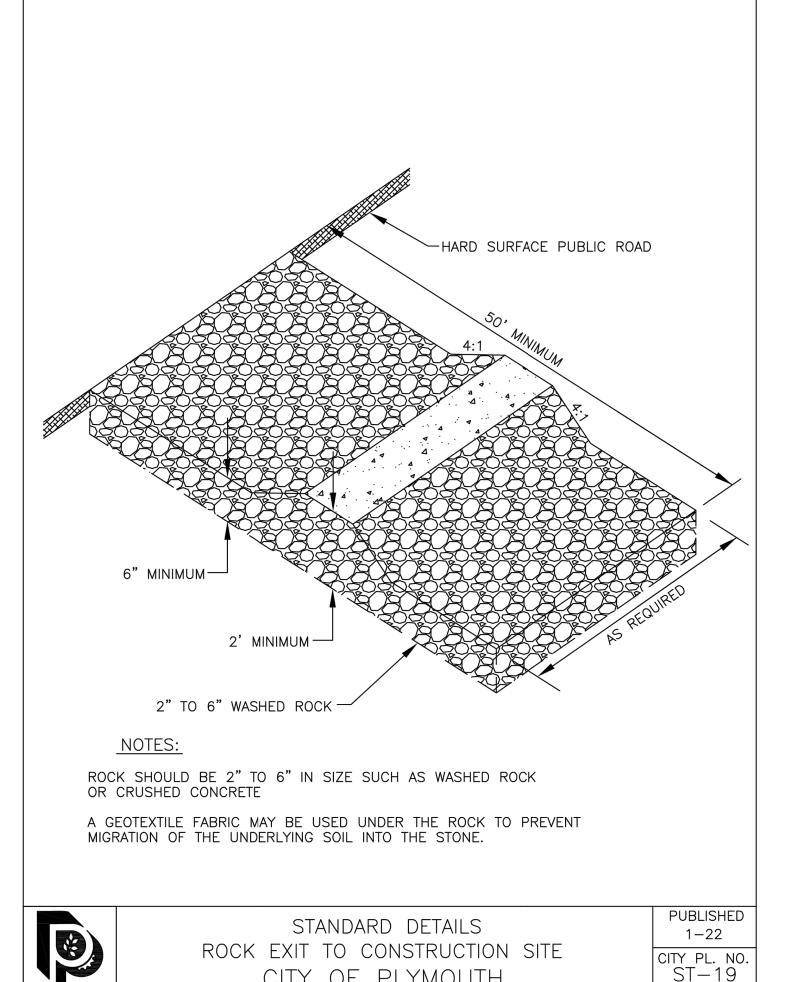
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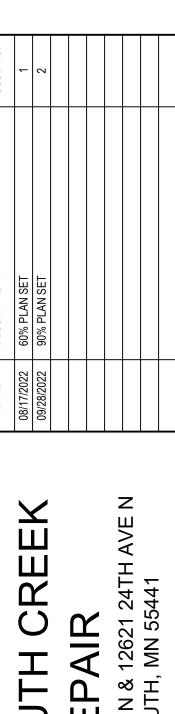
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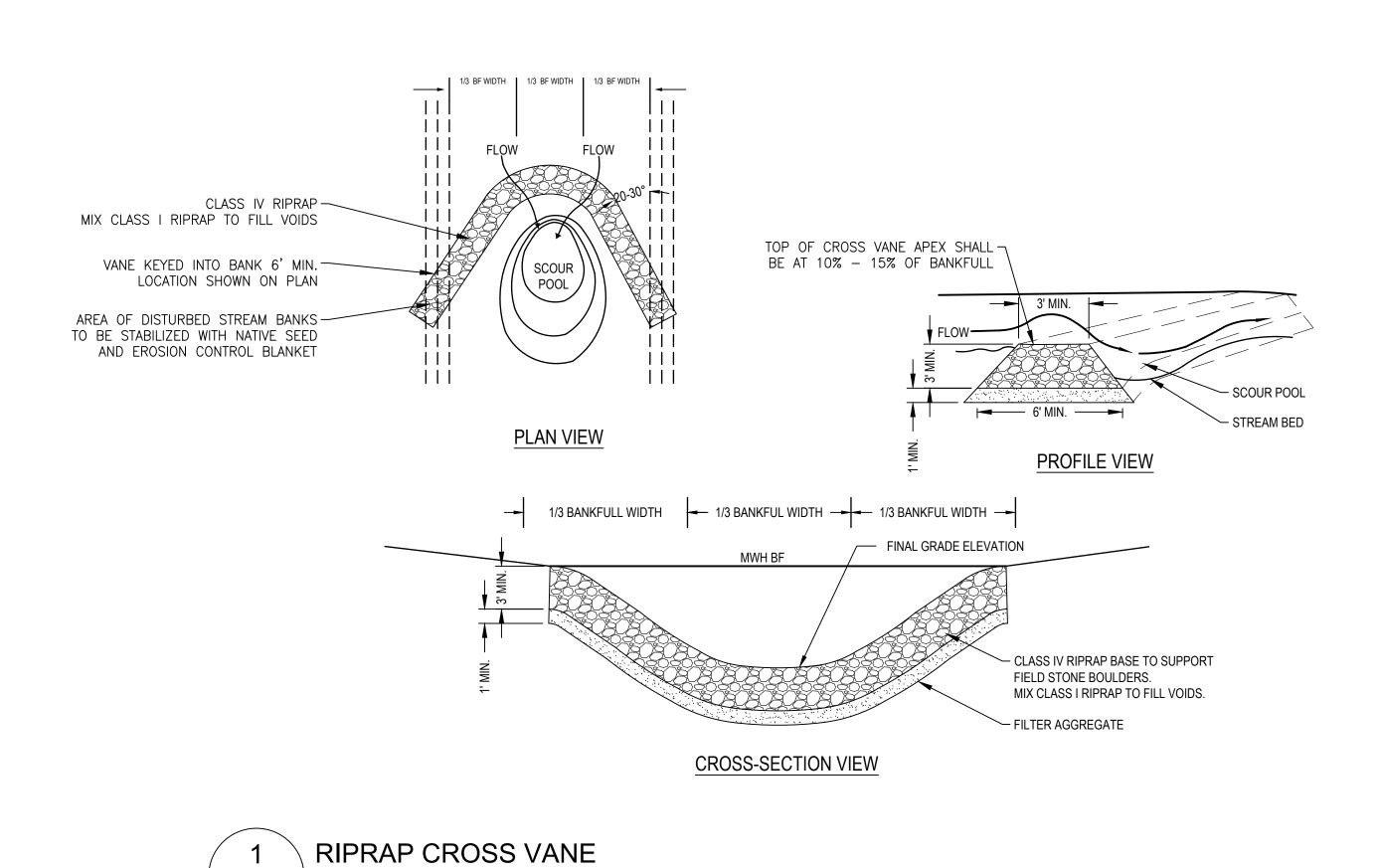
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ISSUE NO.: SHEET TITLE:

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DETAILS

C-801



C-802 NOT TO SCALE

BANKFULL ELEVATION AS — FIELD DIRECTED BY LANDSCAPE ARCHITECT - AREA OF DISTURBED STREAM BANKS BASE FLOW -TO BE STABILIZED WITH NATIVE SEED TOP OF BANK AND EROSION CONTROL BLANKET HEAD OF VANE TO BE KEYED \sim - VANE KEYED INTO BANK 6' MIN. INTO STREAM BED, FLUSH LOCATION SHOWN ON PLAN WITH CHANNEL BOTTOM UNIFORM SLOPE: 2-7% CHANNEL --CLASS IV RIPRAP MIX CLASS I RIPRAP TO FILL VOIDS TAIL OF VANE → FILTER AGGREGATE SECTION VIEW HEAD OF VANE 1/3 CHANNEL 1/3 CHANNEL 1/3 CHANNEL WIDTH WIDTH WIDTH BANKFULL ELEVATION BARBS SHOULD EXTEND 1/4 - 1/3 CHANNEL WIDTH TOP OF BANK CLASS IV RIPRAP, TYPICAL -MIX WITH CLASS I RIPRAP TO FILL VOIDS TIP OF DOWNSTREAM BARB MUST BE TANGENT INTO THE BASE OF UPSTREAM BARB AREA OF DISTURBED STREAM BANKS — TO BE STABILIZED WITH NATIVE SEED AND EROSION CONTROL BLANKET **PLAN VIEW**

2 RIPRAP STREAM BARB
C-802 NOT TO SCALE

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Plymouth

improvements

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STATE OF MINNESON

CERTIFICATION:

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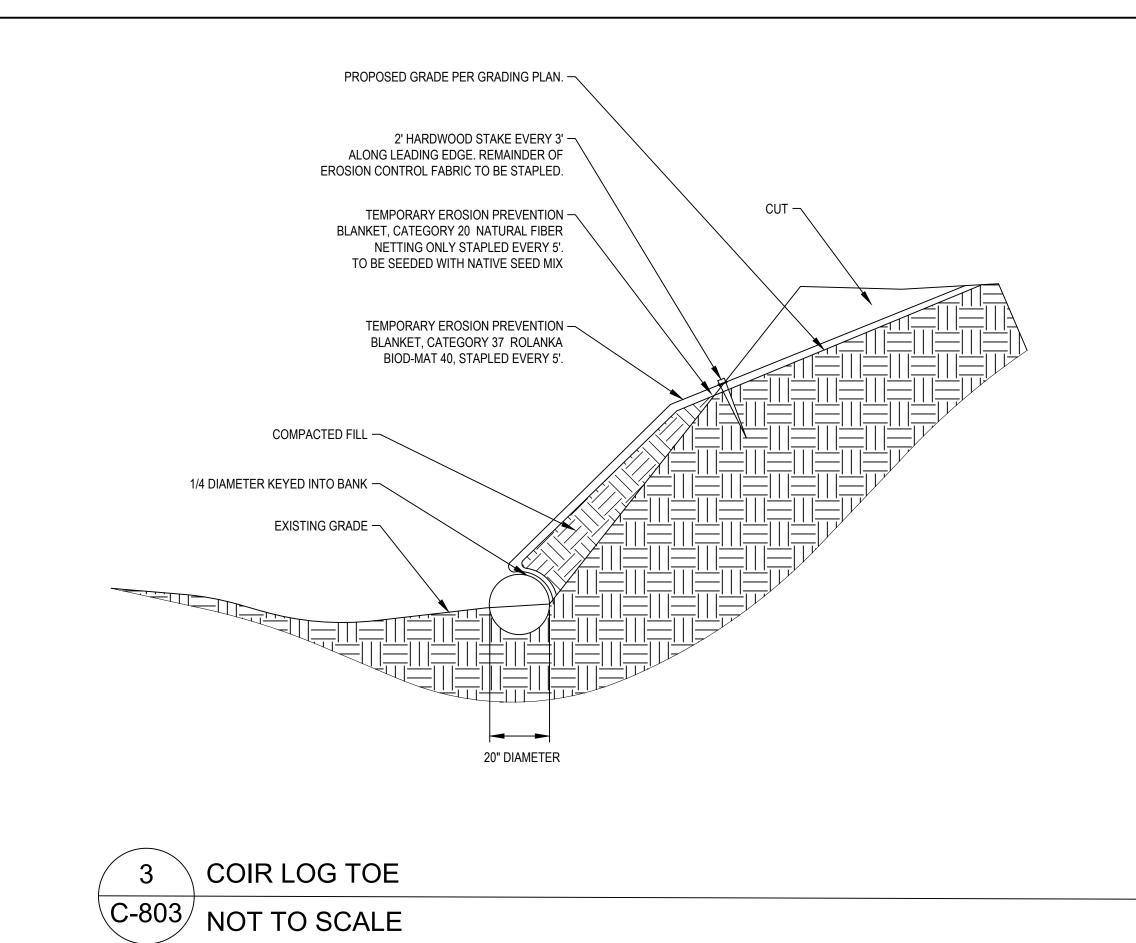
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DETAILS

C-802

09/28/2022 2 AILS



PROPOSED GRADE PER GRADING PLAN. ~ 2' HARDWOOD STAKE EVERY 3' — – WOOD BRUSH HARVESTED ON SITE ALONG LEADING EDGE. REMAINDER OF EROSION CONTROL FABRIC TO BE STAPLED. 2' HARDWOOD STAKE EVERY 3' -ALONG LEADING EDGE. REMAINDER OF EROSION CONTROL FABRIC TO BE STAPLED. TEMPORARY EROSION PREVENTION — BLANKET, CATEGORY 20 NATURAL FIBER NETTING ONLY STAPLED EVERY 5'. TEMPORARY EROSION PREVENTION — BLANKET, CATEGORY 20 NATURAL FIBER TO BE SEEDED WITH NATIVE SEED MIX NETTING ONLY STAPLED EVERY 5'. TO BE SEEDED WITH NATIVE SEED MIX TEMPORARY EROSION PREVENTION -TEMPORARY EROSION PREVENTION — BLANKET, CATEGORY 37 ROLANKA BLANKET, CATEGORY 37 ROLANKA BIOD-MAT 40, STAPLED EVERY 5'. BIOD-MAT 40, STAPLED EVERY 5'. CLASS IV RIPRAP ANGULAR, NO LIMESTONE -SEPARATE BRUSH MATTRESS LAYERS WITH -ALLOWED. PLACED 3' THICK, TYPICAL. TEMPORARY EROSION PREVENTION BLANKETS MIX WITH CLASS I RIPRAP TO FILL VOIDS. WITH ENDS FOLDED UNDER EACH LIFT CHANNEL SEDIMENT BACKFILL — → DEAD STAKE 2"-6" DIA. MIN 3' BURY (TYP) WOOD BRUSH HARVESTED ON SITE -**SECTION VIEW PLAN VIEW** EXISTING GRADE -DEAD STAKE (TYP) 12" OF FILTER AGGREGATE TO BE PLACED UNDER ALL RIPRAP. - DEAD STAKE (TYP) PLAN VIEW

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PROJECT NO.:

DWN BY: CHK'D BY: APP'D BY: PAG LNJ LNJ 09/28/2022 ISSUE DATE: ISSUE NO.:

SHEET TITLE:

DETAILS

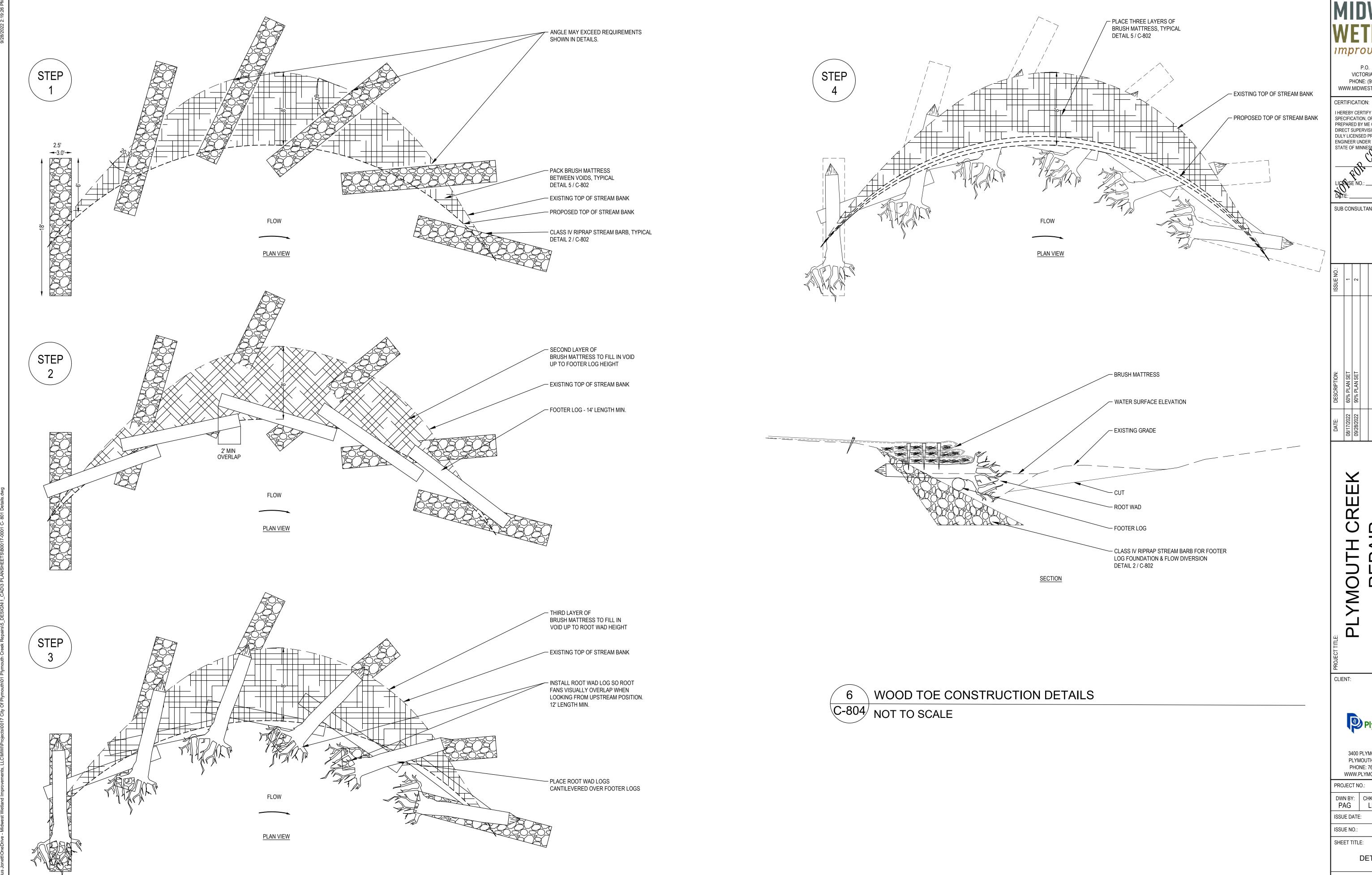
C-803

RIPRAP TOE

C-803/ NOT TO SCALE

BRUSH MATTRESS

C-803 NOT TO SCALE



improvements

P.O. BOX 448 VICTORIA, MN 55386 PHONE: (952) 261-9990

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I HEREBY CERTIFY THAT THIS PLANS
SPECIFICATION, OR REPORT WAS
PREPARED BY ME OR UNDERMY
DIRECT SUPERVISION AND THAT I AM A
DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE
STATE OF MINNESON

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