

PRELIMINARY CONSTRUCTION PLANS

FOR

QUALITY FORKLIFT IMPROVEMENTS

491 CITATION DRIVE

SHAKOPEE MN, 55379

JUNE 2023

DEVELOPER



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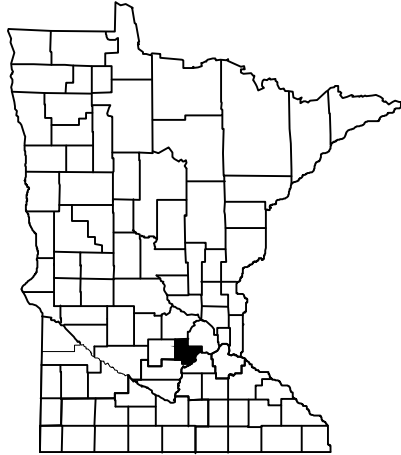
ENGINEER



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VICINITY MAP
NOT TO SCALE



PROJECT LOCATION
CITY: SHAKOPEE
COUNTY: SCOTT

THIS PLAN SET CONTAINS 13 SHEETS

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CLIENT:



SWERVO

Development Corporation

QUALITY FORKLIFT
IMPROVEMENTS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE

ISSUE NO.: 1 2 3 4 5

DESCRIPTION: CLIENT SUBMITTAL CLIENT SUBMITTAL CLIENT SUBMITTAL CITY SUBMITTAL CITY RESUBMITTAL

DATE: 10/13/2023 11/09/2023 11/09/2023 05/16/2023 06/01/2023

CERTIFICATION:

NOT FOR CONSTRUCTION

PROJECT NO.: 227705401

DWN BY: YMK CHK'D BY: BMB APP'D BY: JRA

ISSUE DATE: 06/01/2023

ISSUE NO.: 5

SHEET TITLE: COVER SHEET

SHEET NO.: C-001

GOVERNING SPECIFICATIONS

1. CITY OF SHAKOPEE, MINNESOTA (CITY) 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. ON-REVISION BLOCK STATES "ISSUED FOR CONSTRUCTION", THE PLAN SET IS NOT CERTIFIED FOR CONSTRUCTION AND CONTRACTOR IS BUILDING AT THEIR OWN RISK.
2. EXISTING CONDITIONS SHOWN ARE FROM A TOPOGRAPHIC SURVEY COMPLETED BY STANTEC, DATED 2/16/2022. EXISTING FEATURES MAY NOT BE EXACT TO THEIR LOCATION. CONTRACTOR RESPONSIBLE FOR VERIFYING THE CONDITIONS OF THE SITE AND MUST IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF DISCREPANCIES OR VARIATIONS FROM THE DRAWINGS.
3. SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CLAUSE 38-2 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA". EXACT LOCATION/DEPTH OF SUBSURFACE UTILITIES SUCH AS GAS, TELEPHONE, FIBER OPTIC, SEWER, WATER, PIPELINES, ELECTRICAL, AND CABLE TV ARE UNKNOWN AND THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
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 SUB CUT AND TRENCH AREAS AND MUST COORDINATE THE RELOCATION OR PROTECTION OF EXISTING UTILITIES, OR INSTALLATION OF NEW UTILITIES, WITH UTILITY OWNERS THAT MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE STARTING WORK. COSTS FOR SUCH WORK, INCLUDING EXTRA TIME AND EFFORT FOR PROVISIONS NECESSARY TO WORK AROUND OR UNDER UTILITIES, IS THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. FEES OR CHARGES WHICH ARE TO BE PAID TO THE UTILITY COMPANY, INCLUDING WORK THAT MUST BE PERFORMED BY THE UTILITY COMPANY, ARE AT NO ADDITIONAL COST TO THE OWNER.
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 WORK WITH OTHER CONTRACTORS PERFORMING WORK AT OR NEAR THE SITE.
9. CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS TO ADJACENT PROPERTIES THROUGHOUT CONSTRUCTION.
10. CONTRACTOR SHALL COORDINATE AND MAINTAIN MAIL, GARBAGE, AND RECYCLING SERVICES TO PROPERTIES THROUGHOUT CONSTRUCTION.
11. CONTRACTOR SHALL COORDINATE AND MAINTAIN STORMWATER DRAINAGE CONVEYANCE THROUGHOUT CONSTRUCTION (BOTH PIPED AND OVERLAND FLOW). CONTRACTOR TO PROVIDE TEMPORARY STORMWATER BYPASS SYSTEM TO MAINTAIN UPSTREAM DRAINAGE AS NECESSARY TO INSTALL PROPOSED IMPROVEMENTS AT NO ADDITIONAL COST TO OWNER.
12. CONTRACTOR SHALL COORDINATE AND MAINTAIN WATER AND SANITARY FLOW TO AND FROM PROPERTIES. PROVIDE BYPASS AND TEMPORARY SYSTEMS, AS NECESSARY.
13. CONTRACTOR SHALL COORDINATE AND MAINTAIN UTILITY SERVICES TO ADJACENT PROPERTIES AT ALL TIMES. UTILITY SERVICE MUST NOT BE INTERRUPTED WITHOUT APPROVAL FROM OWNER, CITY, AND ADJACENT PROPERTIES.
14. CONTRACTOR SHALL COORDINATE WITH UTILITY SERVICES FOR SMALL UTILITY INSTALLATION.
15. 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.
16. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING PAVEMENT, SITE FEATURES, UTILITIES, TREES, ETC., UNLESS NOTED OR SHOWN OTHERWISE.
17. CONTRACTOR SHALL PHOTO OR VIDEO DOCUMENT EXISTING CONDITIONS OF TREES AND PLANTINGS, ADJOINING CONSTRUCTION, SURFACES, AND SITE IMPROVEMENTS, ETC., TO REMAIN THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY CONSTRUCTION OPERATIONS. SUBMIT TO ENGINEER AND OWNER BEFORE CONSTRUCTION BEGINS. USE ADEQUATELY DETAILED PHOTOGRAPHS OR VIDEO RECORDINGS. INCLUDE PLANS AND NOTATIONS TO INDICATE SPECIFIC EXISTING DAMAGE CONDITIONS OF ITEMS DESIGNATED TO REMAIN. 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.
18. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION AND WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES.
19. CONTRACTOR MUST IMMEDIATELY NOTIFY THE OWNER AND ENGINEER IN WRITING OF DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO NOTIFY OWNER AND ENGINEER OF AN IDENTIFIABLE CONFLICT BEFORE PROCEEDING WITH INSTALLATION RELIEVES OWNER AND ENGINEER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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 MPCA REGULATIONS. CONTRACTOR SHALL REMOVE SPILL OF FUELS, OILS, OR OTHER CHEMICALS IMMEDIATELY UPON DETECTION.
25. IF CONSTRUCTION IS ANTICIPATED TO OCCUR DURING COLD WEATHER, IN THE EVENT THAT SNOW REMOVAL IS REQUIRED FOR SITE ACCESS AND CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL COORDINATE WITH OWNER FOR ACCEPTABLE SNOW STORAGE AREAS ON-SITE. SNOW REMOVAL AND STORAGE IS INCIDENTAL TO THE CONTRACT.
26. CONTRACTOR SHALL DOCUMENT AND MAINTAIN AS-BUILT INFORMATION AS CONSTRUCTION PROGRESSES AND IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER AS REQUIRED BY JURISDICTIONAL AGENCIES FOR CERTIFICATION. ALL AS-BUILT DATA MUST BE COLLECTED BY A STATE OF MN PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED AND PAID FOR BY THE CONTRACTOR.

REMOVAL/DEMOLITION NOTES

1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
2. CONTRACTOR SHALL OBTAIN PERMITS REQUIRED FOR DEMOLITION, REMOVAL AND DISPOSAL.
3. CONTRACTOR SHALL REVIEW FEATURES NOT SPECIFICALLY IDENTIFIED ON PLAN FOR SALVAGE OR REMOVAL THAT CONFLICT WITH CONSTRUCTION WITH THE ENGINEER.
4. 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.
5. CONTRACTOR SHALL SAWCUT FULL DEPTH AT PAVEMENT REMOVAL LIMITS AND AS NECESSARY TO CREATE A SMOOTH FIT/TRANSITION ALONG MATCHING PAVEMENT AREAS.
6. CONTRACTOR SHALL COORDINATE UTILITY REMOVAL WORK WITH APPROPRIATE UTILITY OWNER.
7. CONTRACTOR SHALL SALVAGE AND REINSTALL STREET AND TRAFFIC SIGNS IN CONFLICT WITH CONSTRUCTION ACTIVITIES AS NOTED OR AS DIRECTED BY ENGINEER. IF SIGNS ARE DAMAGED DURING CONSTRUCTION, CONTRACTOR REQUIRED TO PROVIDE NEW SIGNS AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL SALVAGE AND REINSTALL FENCE IN CONFLICT WITH CONSTRUCTION ACTIVITIES AS NOTED OR AS DIRECTED BY ENGINEER. IF FENCE IS DAMAGED DURING CONSTRUCTION, CONTRACTOR REQUIRED TO PROVIDE NEW FENCE, TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST TO THE OWNER.
9. 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.
10. CONTRACTOR SHALL REVIEW ALL TREE REMOVALS WITH THE OWNER AND ENGINEER PRIOR TO REMOVAL OPERATIONS.
11. REMOVAL OF ANY EXISTING BUILDING REQUIRES COMPLETION OF A HAZARDOUS MATERIAL SURVEY IN ACCORDANCE

WITH LOCAL RULES AND REGULATIONS. CONTRACTOR SHALL PROVIDE THE APPROPRIATE SURVEY AT NO ADDITIONAL COST TO THE OWNER.

12. 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.
 - D. BACKFILL DEPRESSIONS WITH NATIVE SOILS OR SUITABLE FILL MATERIAL AS REQUIRED BY DESIGN OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND COMPACT BACKFILL AS DIRECTED.
 - E. DISPOSE OF DEBRIS IN ACCORDANCE WITH APPLICABLE 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.
13. UNLESS OTHERWISE NOTED, CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION WITHIN ALL AREAS OF PROPOSED IMPROVEMENTS. REMOVAL LIMITS ARE IDENTIFIED ON THE DRAWINGS IN ANTICIPATED LOCATIONS. CONTRACTOR RESPONSIBLE FOR REMOVALS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS AND CONFORM TO DESIGN REQUIREMENTS. ALL FACILITIES TO BE REMOVED MUST BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE FILL MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

SITE NOTES

1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
2. FENCING LOCATION SHOWN ON SITE PLAN FOR REFERENCE ONLY. FENCING DESIGN TO BE PROVIDED BY GENERAL CONTRACTOR.

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, EROSION CONTROL, BLANKET, ETC.) IN ACCORDANCE WITH THE SWPPP, NPDES PERMIT, AND CITY, STATE, AND WATERSHED DISTRICT PERMITS.
4. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION. COORDINATE WITH ENGINEER.
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 NPDES PERMIT REQUIREMENTS.
7. CONTRACTOR SHALL COMPLETE CONCRETE WASH-OUT OFF-SITE OR PROVIDE SELF-CONTAINED CONCRETE READY MIX TRUCKS.
8. CONTRACTOR SHALL MINIMIZE DUST FROM CONSTRUCTION OPERATIONS BY PROVIDING WATER OR OTHER APPROVED METHOD ON A DAILY BASIS.
9. CONTRACTOR SHALL PHASE GRADING WORK TO MINIMIZE THE DURATION THAT DISTURBED SOIL IS EXPOSED.
10. CONTRACTOR SHALL PROVIDE/INSTALL DIVERSION DITCHES, SEDIMENT BASINS, AND OTHER EROSION PROTECTION/SEDIMENT CONTROL MEASURES AS NECESSARY DURING INTERIM PROJECT CONDITIONS (NOT SHOWN ON PLANS) TO MANAGE/DIVERT STORM WATER AWAY FROM SITE FEATURES AND CONTROL EROSION/SEDIMENT. CONTRACTOR SHALL ADJUST MEASURES AS NECESSARY THROUGHOUT PROJECT PHASING.
11. CONTRACTOR SHALL LOCATE SOIL STOCKPILES NO LESS THAN 50 FEET FROM ROADWAYS, STORMWATER INLETS, PONDS, WETLANDS, DRAINAGE CHANNELS, AND OTHER SURFACE WATER. 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.
12. 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.
13. CONTRACTOR SHALL SUBMIT THE NOTICE OF TERMINATION AT THE COMPLETION OF THE PROJECT IN ACCORDANCE WITH THE NPDES PERMIT AND SWPPP REQUIREMENTS.
14. SOIL PREPARATION: PREPARE SOIL IN ACCORDANCE WITH MNDOT SPEC 2574, PART 3.A.3 SOIL BED PREPARATION AND PART 3.A.4 SUBSOILING.
15. EROSION CONTROL SHALL MEET THE FOLLOWING REQUIREMENTS:
 - A. SILT FENCE: MNDOT SPECS 2573 AND 3886, TYPE MS MACHINE SLICED.
 - B. SEDIMENT CONTROL LOG (BIOROLL): MNDOT SPECS 2573 AND 3897, TYPE STRAW. STRAW BIOROLLS, 8 TO 9 INCHES IN DIAMETER, MINIMUM 10 FEET LONG, FILLED WITH GRAIN STRAW, FREE OF SEED-BEARING STALKS OF NOXIOUS GRASSES OR WEEDS WITH NATURAL FIBER OUTER NETTING.
 - C. MULCH: MNDOT SPECS 2575 AND 3882, TYPE 1, TWO TONS PER ACRE, DISK ANCHORED IN AREAS THAT DO NOT RECEIVE EROSION CONTROL BLANKET.
 1. CERTIFIED BY MINNESOTA CROP IMPROVEMENT ASSOCIATION (MCIA).
 2. HYDRAULIC SOIL STABILIZER MAY BE USED IN LIEU OF MULCH WITH APPROVAL OF THE ENGINEER.
 - D. TEMPORARY SEED: MNDOT SPECS 2575 AND 3876, STATE SEED MIX 21-112 WINTER WHEAT COVER CROP.

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. IT IS THE CONTRACTOR'S RESPONSIBILITY TO QUANTIFY SOIL IMPORT OR EXPORT FOR THE SITE AND PERFORM THEIR OWN QUANTITY TAKEOFFS FROM THE DRAWINGS FOR BIDDING PURPOSES. SUITABLE OFFSITE IMPORT MATERIAL MAY BE NECESSARY TO ACHIEVE THE FINAL GRADES SHOWN ON THE DRAWINGS. CONTRACTOR SHALL COORDINATE WITH GEOTECHNICAL ENGINEER TO VERIFY IMPORT, FROM CONTRACTOR DETERMINED SOURCE, IS SUITABLE FOR USE. 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 POSITIVE DRAINAGE AWAY FROM BUILDINGS AND ENSURE NO PONDING IN PAVED AREAS. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF GRADING DISCREPANCIES ARE FOUND IN EXISTING OR PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT. OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING BEFORE PLACEMENT OF PAVEMENT TO ENSURE DRAINAGE IS ADEQUATE TO INTENDED AREA.
5. "REVIEW WITH OWNER AND CITY/AGENCY" CONTRACTOR SHALL BACKFILL SUBGRADE AND TRENCH EXCAVATIONS PROMPTLY "OR" AT THE END OF EACH WORK DAY AFTER EXCAVATION TO HELP OFFSET STABILITY PROBLEMS DUE TO WATER SEEPAGE OR STEEP SLOPES "AND/OR" TO AVOID UNDERMINING OF EXISTING PAVEMENT "AND/OR" PUBLIC SAFETY OR ACCESS TO DRIVEWAYS.
6. CONTRACTOR SHALL PROVIDE TOPSOIL, SEED/SOD, MULCH, AND FERTILIZER IN ACCORDANCE WITH THE LANDSCAPE PLAN "OR" EROSION CONTROL PLAN.
7. ALL DISTURBED PREVIOUS AREAS ARE TO RECEIVE 6 INCHES OF SALVAGED TOPSOIL, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL SALVAGE TOPSOIL BEFORE GRADING, AND STOCKPILE FOR RESPREADING.
8. EXISTING TOPSOIL ON SITE VARIES IN DEPTH. CONTRACTOR SHALL REMOVE SURFACE VEGETATION AND TOPSOIL AND OTHER LOOSE, SOFT OR OTHERWISE UNSUITABLE MATERIAL FROM THE IMPERVIOUS AREAS AND OTHER AREAS AS DIRECTED BY THE GEOTECHNICAL ENGINEER BEFORE PLACEMENT OF SUITABLE FILL MATERIAL.
9. CONTRACTOR SHALL EXCAVATE AND DISPOSE OF UNSUITABLE OR CONTAMINATED SOILS DISCOVERED ONSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND AS DIRECTED BY GEOTECHNICAL ENGINEER.
10. CONTRACTOR IS RESPONSIBLE FOR MEETING GRADING/COMPACTION REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT AND SPECIFICATIONS FOR THE PROJECT.
11. EXISTING SPOT ELEVATIONS AT MATCH POINTS ARE BASED ON INTERPOLATED POINT TO POINT SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONNECTION POINTS PRIOR TO INSTALLATION OF IMPROVEMENTS. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY OF ANY FIELD DISCREPANCIES. CONTRACTOR IS RESPONSIBLE FOR MAKING NECESSARY ADJUSTMENTS IN THE FIELD FOR CONSTRUCTABILITY, REGULATORY COMPLIANCE (ADA), POSITIVE DRAINAGE, AND TO ENSURE SMOOTH TRANSITIONS TO FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR REWORK OF A DISCREPANCY THAT IS NOT COMMUNICATED TO THE ENGINEER IN WRITING AT NO ADDITIONAL COST TO THE OWNER.
12. EXCAVATE, COMPACT EMBANKMENT/SUITABLE FILL AND BACKFILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND WITH MNDOT SPEC 2106 SPECIFIED DENSITY METHOD. CONTRACTOR SHALL MEET MOISTURE CONTENT/CONTROL REQUIREMENTS IN ACCORDANCE WITH MNDOT 2106, THE GEOTECHNICAL REPORT, AND SITE TESTING REQUIREMENTS.
13. SOILS TESTING WILL BE COMPLETED BY THE OWNER'S GEOTECHNICAL ENGINEER/INDEPENDENT TESTING AGENCY.

CONTRACTOR SHALL COORDINATE REQUIRED SOIL TESTS AND INSPECTIONS WITH THE GEOTECHNICAL ENGINEER

14. ONSITE EMBANKMENT MATERIAL FREE OF ORGANIC SOIL AND DEBRIS MAY BE CONSIDERED FOR REUSE AS SUITABLE

15. MATERIAL IN PERVIOUS AREAS MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.
15. IMPORTED SUITABLE FILL MATERIAL NEEDED MAY CONSIST OF SAND (SW, SP), SILTY SAND (SM), CLAYEY SAND (SC), SANDY LEAN CLAY OR LEAN CLAY (CL), ACCORDING TO THE USCS CLASSIFICATION WITH A PLASTIC INDEX OF THESE MATERIALS NOT EXCEEDING 15, AND MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE BRINGING ON THE SITE.
16. ANY EXISTING STRUCTURES (I.E. MANHOLES, VALVES, ETC.) WITHIN THE LIMITS OF DISTURBANCE SHALL HAVE RIMS ADJUSTED TO MATCH PROPOSED GRADES, UNLESS NOTED OTHERWISE. ADJUSTMENTS SHALL BE IN ACCORDANCE WITH CITY REQUIREMENTS.
17. CONTRACTOR SHALL PROVIDE DEWATERING MEASURES AS REQUIRED OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER AT NO ADDITIONAL COST TO THE OWNER. SEE DEWATERING NOTES FOR ADDITIONAL REQUIREMENTS.
18. FIELD QUALITY CONTROL:
- A. COMPACTION TESTING WILL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER. TESTING SHALL FOLLOW THE FREQUENCY OUTLINED IN THE GEOTECHNICAL REPORT OR MNDOT SCHEDULE OF MATERIALS CONTROL. WHERE NO FREQUENCY IS PROVIDED, CONSULT THE ENGINEER FOR MINIMUM REQUIREMENTS.
19. TOLERANCES:
- A. GRADING ELEVATIONS - CONFORM TO MNDOT SPEC 2106.3) EXCEPT AS MODIFIED BELOW:
- 1) FINISHED GRADINGS OF SUBGRADE PRIOR TO PLACEMENT OF AGGREGATE BASE COURSES SHALL NOT VARY BY MORE THAN 0.05 FEET ABOVE OR BELOW THE DESIGN, OR ENGINEER ADJUSTED GRADE.

PAVING NOTES

2. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
3. CONTRACTOR SHALL MAINTAIN STREET AND TRAFFIC SIGNS AT ALL TIMES DURING CONSTRUCTION.
4. SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES MUST BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CITY OF SHAKOPEE, SCOTT COUNTY, AND MNDOT STANDARDS.
5. FIELD QUALITY CONTROL:
- A. TEST ROLL SUBGRADE AND AGGREGATE BASE IN ACCORDANCE WITH MNDOT SPECS 2211 AGGREGATE BASE AND 2111 TESTING ROLLING. TEST ROLL MUST BE WITNESSED BY THE ENGINEER OR GEOTECHNICAL ENGINEER.
- B. ALL BITUMINOUS PAVEMENT DENSITY SHALL CONFORM TO MNDOT SPEC 2360.3.D.2 - ORDINARY COMPACTION METHOD. CONTRACTOR SHALL ESTABLISH A ROLL PATTERN FOR EACH COURSE OF PAVING EACH DAY.
6. TOLERANCES:
- A. BITUMINOUS PAVEMENT LINE, GRADE AND THICKNESS- CONFORM TO MNDOT SPEC 2360.3.E, EXCEPT AS MODIFIED BELOW:
- 1) HORIZONTAL LINE DEVIATIONS IN LOCATION GREATER THAN ± 1 INCH WILL BE CONSIDERED UNACCEPTABLE.
- 2) ANY SURFACE AREA ALLOWING ENTRAPMENT OF WATER AT A DEPTH OF 1/4 INCH OR GREATER WILL BE CONSIDERED UNACCEPTABLE.
7. MOVE AND REPLACE UNACCEPTABLE WORK AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

REMOVE AND REPLACE UNACCEPTABLE WORK AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER

STORM SEWER NOTES

- CONTRACTOR SHALL COMPLY WITH THE SPECIFICATIONS OF THE CITY/UTILITY PROVIDER, CEAM, AND MINNESOTA PLUMBING CODE (MINNESOTA RULES CHAPTER 4714) FOR MATERIALS, INSTALLATION, AND TESTING OF STORM UTILITIES
2. CONTRACTOR SHALL PROVIDE 10 FEET MINIMUM HORIZONTAL SEPARATION (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE/STRUCTURE) BETWEEN WATER LINES AND SANITARY OR STORM LINES AND STRUCTURES.
3. CONTRACTOR SHALL PROVIDE 18 INCH MINIMUM VERTICAL SEPARATION (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE/STRUCTURE) BETWEEN WATER LINES AND OTHER UTILITY LINES. PROVIDE INSULATION WHERE WATER, SANITARY, OR STORM UTILITIES CROSS. OFFSET WATERMAIN AND SERVICES AS NECESSARY
4. CONTRACTOR SHALL VERIFY PIPE SIZE, MATERIAL, AND ELEVATION FOR CONNECTIONS. PROVIDE APPROPRIATE PIPES AND FITTINGS REQUIRED TO MAKE CONNECTIONS TO EXISTING INFRASTRUCTURE AS VERIFIED IN THE FIELD.
5. CONTRACTOR SHALL PROVIDE AND INSTALL A FLEXIBLE COMPRESSION JOINT TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, SECTION 719.6. RESILIENT RUBBER JOINTS MEETING ASTM C 923 MAY BE USED IF APPROVED BY AGENCY HAVING JURISDICTION. SEE PROJECT DETAILS.
6. CONTRACTOR SHALL PLACE AND COMPACT SUITABLE FILL MATERIAL BEFORE INSTALLATION OF PROPOSED UTILITIES.
7. CONTRACTOR SHALL PROVIDE 4 INCHES THICK OF INSULATION CENTERED ON STORM PIPE IF LESS THAN 4 FEET OF COVER IN PAVEMENT AREAS AND LESS THAN 3 FEET OF COVER IN LANDSCAPE AREAS PER PROJECT DETAILS.
8. CONTRACTOR IS RESPONSIBLE FOR PROPERLY LOCATING AND INSTALLING CATCH BASINS SO THAT THE INLET FRAME AND GRATE PROPERLY ALIGN WITH CURB AND GUTTER.
9. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED PRIOR TO BACKFILLING IN ACCORDANCE WITH CITY/AGENCY HAVING JURISDICTION REQUIREMENTS.
10. PIPE LENGTH INDICATED BETWEEN STRUCTURES IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS NOTED OTHERWISE. PIPE LENGTH INDICATED BETWEEN STRUCTURE AND FLARED END SECTION IS FROM CENTER OF STRUCTURE TO END OF FLARED END SECTION.
11. STORM SEWER MAINS, SERVICE PIPES, FITTINGS, AND STRUCTURES TO MEET THE FOLLOWING REQUIREMENTS:
- A. SITE PIPING:
- 1) 24 INCH DIA. AND LARGER, HDPE WATER TIGHT PIPE PER AASHTO M 294 ASTM F 2306, ASTM D 3212, AND ASTM F 477 .
- 2) 6 INCH DIA. AND SMALLER, AS NOTED ON THE DRAWING, PVC SCH 40 PER ASTM D1785 AND ASTM D2865.
- B. JOINTS: JOINTS MUST BE CERTIFIED BY THE MANUFACTURER TO BE ABLE TO PASS THE AIR TEST OR INTERNAL HYDROSTATIC PRESSURE REQUIRED BY THE AGENCY HAVING JURISDICTION.
- C. CONNECTIONS TO EXISTING: FOR PVC TO PVC CONNECTIONS USE MOLDED FITTINGS FROM COMPOUND HAVING CELL CLASSIFICATION EQUAL OR EXCEEDING COMPOUND USED IN PIPE TO ENSURE COMPATIBILITY OF RESINS. FOR DISSIMILAR PIPE CONNECTIONS USE FLEXIBLE TRANSITION COUPLINGS PER ASTM C1173 AND D5926 OR MARMAC DISSIMILAR PIPE COUPLERS OR APPROVED EQUAL.
- D. PRECAST STRUCTURES:
- 1) GENERAL: ASTM C478 AND DRAWING DETAILS.
- 2) STRUCTURE JOINTS: RUBBER O-RING GASKET MEETING ASTM C443
- 3) STEPS: PER DETAILS
- 4) DESIGN: DETAILED AND PREPARED BY A PROFESSIONAL ENGINEER EXPERIENCED IN PRECAST CONCRETE STRUCTURE DESIGN WHO IS REGISTERED IN THE STATE OF MINNESOTA. DESIGN SHALL CONFORM TO A MINIMUM SAFETY FACTOR OF 1.3 FOR BUOYANCY AND FLOTATION WITH THE HYDROSTATIC LOADING (WATER TABLE ELEVATIONS) ASSUMED FROM THE TOP OF THE STRUCTURE. THE DESIGN OF THE BASE SLAB, WALLS, AND TOP SLAB SHALL BE DESIGNED FOR SHEAR STRENGTH, FL EXURAL STRENGTH, AND OTHER APPLICABLE TRACKED) EARTH MOVING EQUIPMENT TO PREVENT COMPACTION.
- CONTRACTOR SHALL STAKE OUT AND MARK THE PROJECT AREA TO KEEP CONSTRUCTION TRAFFIC, EQUIPMENT AND MATERIAL STOCKPILES OUT OF THE PROPOSED INFILTRATION AREAS.
- CONTRACTOR SHALL STAGE CONSTRUCTION APPROPRIATELY AND INSTALL NECESSARY EROSION CONTROL TO PREVENT SEDIMENT AND TOPSOIL FROM WASHING INTO THE INFILTRATION AREA. IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE INFILTRATION AREA, THE CONTRACTOR SHALL REMOVE THE MATERIAL BEFORE PROCEEDING WITH CONSTRUCTION
- CONTRACTOR SHALL NOT EXCAVATE INFILTRATION BASIN UNTIL THE CONTRIBUTING DRAINAGE AREAS WITH EXPOSED SOIL HAVE BEEN STABILIZED AND BITUMINOUS BASE COURSE INSTALLED ON CONTRIBUTING PAVEMENT AREAS. DIVERT UPLAND DRAINAGE AREAS TO PREVENT RUNOFF FROM ENTERING THE EXCAVATED CELL OR INTO THE WORK AREA. DO NOT USE INFILTRATION CELL(S) AS TEMPORARY SEDIMENT BASINS OR ALLOW CONSTRUCTION RUNOFF INTO THE CELL(S), WHEN ALTERNATE DRAINAGE ROUTES ARE FEASIBLE.
- CONTRACTOR SHALL ACCOMPLISH FINAL GRADING OF THE BASIN TO PREVENT COMPACTION. EXCAVATION SHOULD BE PERFORMED WITH A BACKHOE FROM THE SIDES AND OUTSIDE THE FOOTPRINT OF THE INFILTRATION AREA. IF REQUIRED TO WORK WITHIN THE INFILTRATION FOOTPRINT, ONLY LOW GROUND PRESSURE TRACKED EQUIPMENT SHALL BE ALLOWED. RUBBER TIRE EQUIPMENT IS PROHIBITED WITHIN THE INFILTRATION AREA.
- DE-COMPACT SUBSOIL WITHIN INFILTRATION AREAS WITH BACKHOE RIPPER ATTACHMENT OR OTHER APPROVED METHOD TO A DEPTH OF AT LEAST 18 INCHES BELOW SUBGRADE IN ALL LOCATIONS INDICATED ON THE DRAWINGS AND AS DIRECTED BY ENGINEER.
- CONTRACTOR SHALL GENTLY MIX THE FIRST LIFT OF INFILTRATION SOILS WITH THE LOOSENEED UNDERLYING SOILS TO AVOID STRATIFICATION AND PROMOTE PERMEABILITY. USE EXCAVATOR BUCKET TO PLACE MATERIALS. LEVELING AND FINAL GRADING WITHIN THE CELL MUST BE COMPLETED BY HAND OR OTHER METHOD APPROVED BY THE ENGINEER.
- INFILTRATION SOILS SHALL BE 85% ONSITE SANDY SOIL (FIELD VERIFY) AND 15% MNDOT 3890 GRADE 2 LEAF LITTER COMPOST. THE MATERIAL SUPPLIER SHALL PROVIDE DOCUMENTATION THAT THE COMPOST HAS BEEN SAMPLED AND TESTED AS REQUIRED BY THE SEAL OF TESTING ASSURANCE (STA) PROGRAM OF THE UNITED STATES COMPOSTING COUNCIL (USCC). CONTRACTOR SHALL PROVIDE A GRADATION SIEVE ANALYSIS FOR THE ONSITE SAND. THE INFILTRATION SOILS SHALL NOT CONTAIN ANY TOPSOIL OR FILTER AGGREGATE WITH FINES. ONSITE SANDY SOIL OR IMPORTED MATERIAL SHALL BE CLEAN WASHED SAND IN ACCORDANCE WITH MNDOT 314S.2.12 FINE FILTER AGGREGATE.
- CONTRACTOR SHALL AVOID CONTAMINATION OF INFILTRATION BASIN SOILS WITH SEDIMENT, IN-SITU OR TOPSOIL DURING AND AFTER INSTALLATION. MATERIALS MUST BE SEGREGATED. INSTALLATION WITH DRY SOIL CONDITIONS IS CRITICAL TO PREVENT SMEARING AND COMPACTION.
- IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE INFILTRATION BASIN, THE CONTRACTOR SHALL REMOVE THE MATERIAL BEFORE PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR SHALL KEEP INFILTRATION SYSTEMS OFF-LINE BY RESTRICTING STORM WATER INFLOW TO THE BASIN AS NECESSARY UNTIL VEGETATION IS ESTABLISHED IN THE CELL(S) AND UP-GRADIENT AREAS HAVE BEEN FULLY STABILIZED AND IMPERVIOUS SURFACES CLEARED OF CONSTRUCTION SEDIMENT. OR CONTRACTOR SHALL KEEP INFILTRATION SYSTEMS OFF-LINE BY RESTRICTING STORM WATER INFLOW UNTIL DIRECTED BY THE ENGINEER. THIS WILL INCLUDE A TEMPORARY BULKHEAD OF THE PIPE LEADING TO THE AREA CONTRACTOR SHALL ADJUST MEASURES AS NECESSARY THROUGHOUT PROJECT PHASING. SUBMIT OFF-LINE RESTRICTION PLAN TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OF THE SYSTEMS. COSTS ASSOCIATED WITH TEMPORARILY KEEPING THE BASINS OFFLINE IS INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL ENSURE INFILTRATION BASIN IS FREE AND CLEAR OF SEDIMENT UPON FINAL COMPLETION OF CONSTRUCTION.

STORM SEWER NOTES

14. CONTRACTOR SHALL COMPACT EMANKMENT/BEDDING/BACKFILL MATERIAL TO THE SPECIFIED DENSITY METHOD IN ACCORDANCE WITH MNDOT 2106 AND THE GEOTECHNICAL REPORT. CONTRACTOR SHALL MEET MOISTURE CONTENT/CONTROL REQUIREMENTS IN ACCORDANCE WITH MNDOT SPEC 2106, THE GEOTECHNICAL REPORT, AND SITE TESTING REQUIREMENTS.
15. FIELD QUALITY CONTROL, TESTING, INSPECTIONS, AND CERTIFICATIONS MUST COMPLY WITH THE FOLLOWING:
 - F. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, AGENCY HAVING JURISDICTION, AND UTILITY SERVICE COMPANIES.
 - G. STORM LINES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - 2) SERVICE PIPE AND ROOF DRAIN LEADERS TESTING TO COMPLY WITH MN PLUMBING CODE CHAPTER 7 SECTION 712 AND CHAPTER 11 SECTION 1107
 - 3) ALL PORTIONS OF SYSTEM (PIPE AND STRUCTURES) THAT PASS WITHIN 10 FEET OF A WATER LINE, WITHIN 10 FEET OF A BUILDING, WITHIN 50 FEET OF WATER WELLS, OR THAT PASS THROUGH SOIL OR WATER IDENTIFIED AS BEING CONTAMINATED MUST BE TESTED IN ACCORDANCE WITH MN PLUMBING CODE CHAPTER 11 SECTION 1107.
 - 4) DEFLECTION TESTING TO MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
 - 5) TELEVISION INSPECTION TO MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
 - 6) CONDUCTIVITY TESTING TO MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
 - H. A COPY OF THE TEST RESULTS MUST BE PROVIDED TO THE OWNER, ENGINEER, UTILITY PROVIDER, AND AGENCY HAVING JURISDICTION.
17. REFER TO THE MEP PLANS FOR EXACT LOCATIONS, ELEVATIONS, AND DIMENSIONS OF BUILDING UTILITY ENTRANCE LOCATIONS.
18. CONTRACTOR SHALL CLEAN STRUCTURES AND PIPING OF DEBRIS AND SEDIMENT DURING AND AT THE END OF CONSTRUCTION UNTIL ACCEPTED BY THE OWNER AND ENGINEER.
19. TOLERANCES:
 - I. STORM SEWER PIPE
 - 7) HORIZONTAL - WITHIN 0.50 FEET OF ALIGNMENT
 - 8) VERTICAL - ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN WITH NO INTERMEDIATE HIGH POINTS, LEVEL SECTION, OR REVERSE INVERT SLOPE.
 - 9) JOINT DEFLECTION - NO MORE THAN 75% OF MAXIMUM ALLOWABLE, AS RECOMMENDED BY MANUFACTURERS OF PIPE AND JOINT MATERIAL
 - J. STORM STRUCTURE
 - 10) RIM ELEVATIONS - ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN.

INFILTRATION BASIN NOTES

- CONTRACTOR SHALL STAGE CONSTRUCTION APPROPRIATELY AND INSTALL NECESSARY EROSION CONTROL TO PREVENT SEDIMENT WASHING INTO THE INFILTRATION BASIN.
- CONTRACTOR SHALL STAGE CONSTRUCTION APPROPRIATELY TO MINIMIZE COMPACTION OF THE SOILS IN THE INFILTRATION AREA. CONTRACTOR SHALL ACCOMPLISH FINAL GRADING OF THE BASIN SYSTEM LOW-IMPACT (WIDE TRACKED) EARTH MOVING EQUIPMENT TO PREVENT COMPACTION.
- CONTRACTOR SHALL STAKE OFF AND MARK THE PROJECT AREA TO KEEP CONSTRUCTION TRAFFIC, EQUIPMENT AND MATERIAL STOCKPILES OUT OF THE PROPOSED INFILTRATION AREAS.
- CONTRACTOR SHALL STAGE CONSTRUCTION APPROPRIATELY AND INSTALL NECESSARY EROSION CONTROL TO PREVENT SEDIMENT AND TOPSOIL FROM WASHING INTO THE INFILTRATION AREA. IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE INFILTRATION AREA, THE CONTRACTOR SHALL REMOVE THE MATERIAL BEFORE PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR SHALL NOT EXCAVATE INFILTRATION BASIN UNTIL THE CONTRIBUTING DRAINAGE AREAS WITH EXPOSED SOIL HAVE BEEN STABILIZED AND BITUMINOUS BASE COURSE INSTALLED ON CONTRIBUTING PAVEMENT AREAS. DIVERT UPLAND DRAINAGE AREAS TO PREVENT RUNOFF FROM ENTERING THE EXCAVATED CELL OR INTO THE WORK AREA. DO NOT USE INFILTRATION CELL(S) AS TEMPORARY SEDIMENT BASINS OR ALLOW CONSTRUCTION RUNOFF INTO THE CELL(S). WHEN ALTERNATE DRAINAGE ROUTES ARE FEASIBLE.
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- CONTRACTOR SHALL AVOID CONTAMINATION OF INFILTRATION BASIN SOILS WITH SEDIMENT, IN-SITU OR TOPSOIL DURING AND AFTER INSTALLATION. MATERIALS MUST BE SEGREGATED. INSTALLATION WITH DRY SOIL CONDITIONS IS CRITICAL TO PREVENT SMEARING AND COMPACTION.
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- CONTRACTOR SHALL ENSURE INFILTRATION BASIN IS FREE AND CLEAR OF SEDIMENT UPON FINAL COMPLETION OF CONSTRUCTION.



7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
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FAX: 952-831-1268
WWW.STANTEC.COM

CLIENT



QUALITY FORKLIFT IMPROVEMENTS

CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

DATE:	DESCRIPTION:	ISSUE NO.:	PROJECT TITLE:
10/13/2022	CLIENT SUBMITTAL	1	
10/20/2022	CLIENT SUBMITTAL	2	
11/09/2022	CLIENT SUBMITTAL	3	
05/16/2023	CITY SUBMITTAL	4	
06/01/2023	CITY RESUBMITTAL	5	

CERTIFICATION

PROJECT NO.: 227705401

DWN BY: YMK	CHK'D BY: BMB	APP'D BY: JRA
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ISSUE DATE: 06/01/2023

ISSUE NO.: 5

SHEET TITLE: F

GENERAL NOTES

SHEET NO. : _____

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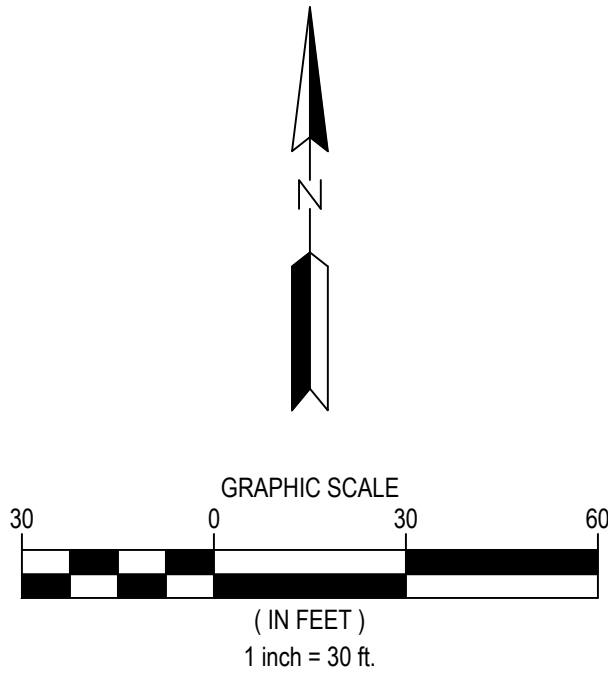
C-002



WARNING:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG
GOPHER STATE ONE CALL
TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166



NOTES

1. SEE SHEET C-002 FOR ADDITIONAL PROJECT NOTES.

LEGEND

	PROPERTY BOUNDARY
	LOT LINE
	EASEMENT LINE
	EXISTING PROPERTY LINE
	EXISTING RAILROAD TRACK
	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING WATERMAIN
	EXISTING UNDERGROUND GAS LINE
	EXISTING UNDERGROUND COMMUNICATION LINE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CURB AND GUTTER
	EXISTING ASPHALT SURFACE
	EXISTING BUILDING
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING SANITARY MANHOLE
	EXISTING STORM SEWER MANHOLE
	EXISTING STORM SEWER INLET
	EXISTING STORM SEWER INLET
	EXISTING HYDRANT
	EXISTING WATER VALVE
	EXISTING AUTO SPRINKLER
	EXISTING GAS METER
	EXISTING TRANSFORMER
	EXISTING DECIDUOUS TREE
	EXISTING HANDICAP PARKING SPACE

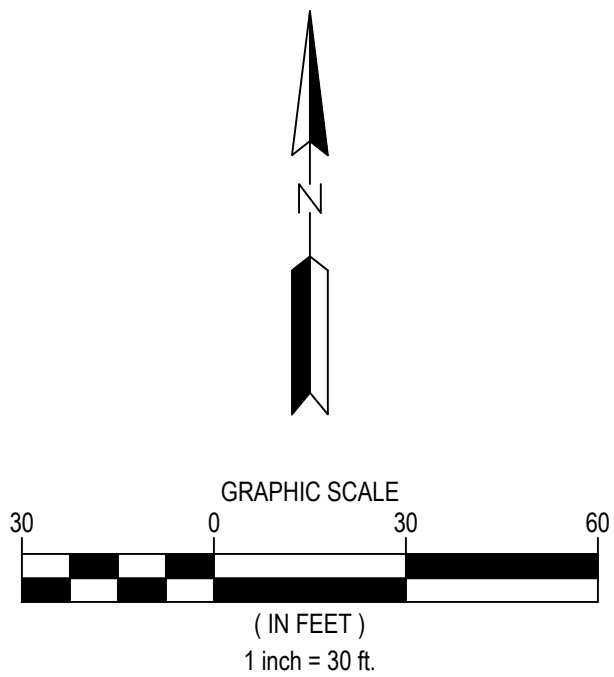
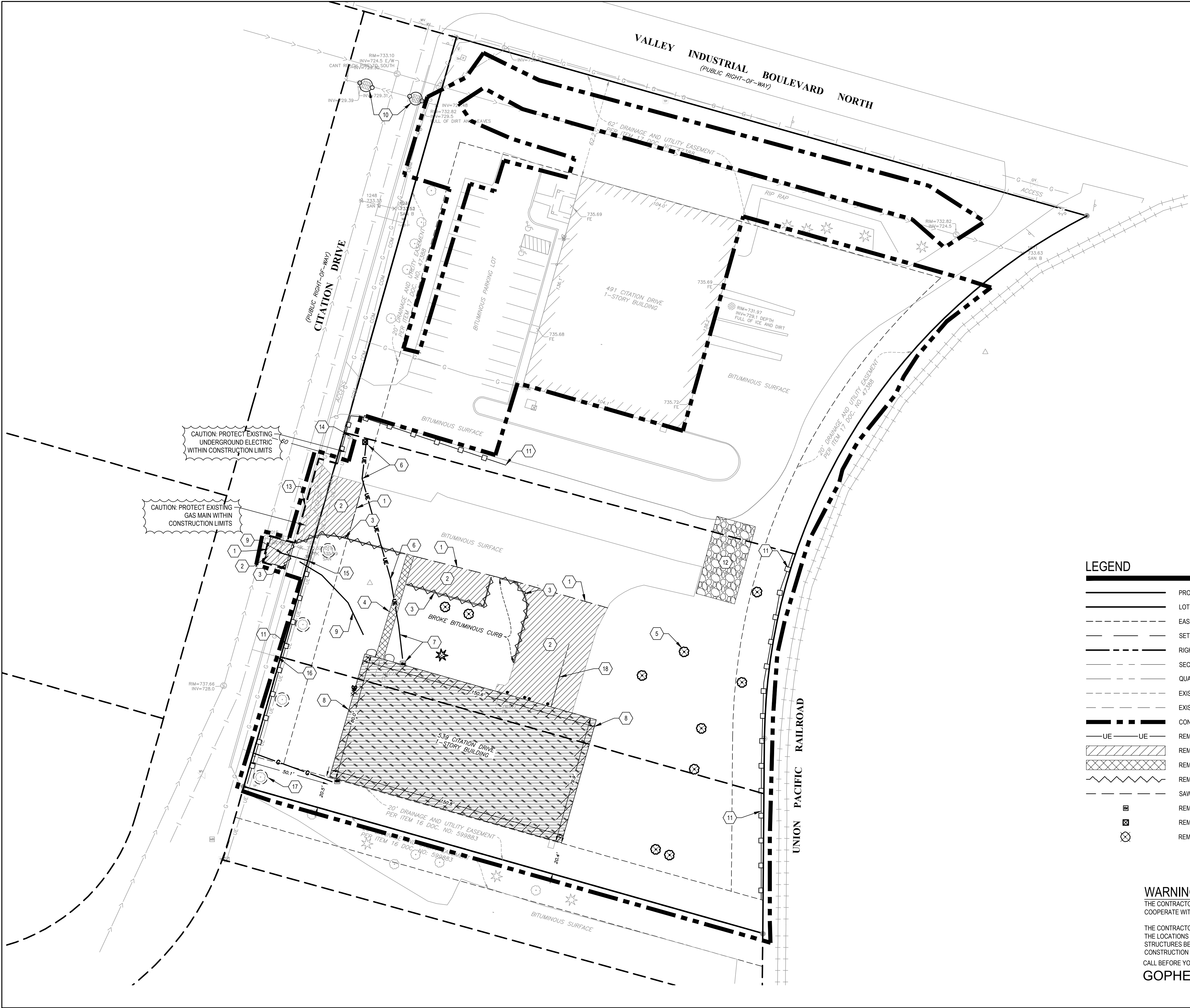
Stantec
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GOLDEN VALLEY, MN 55427
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FAX: 952-831-1268
WWW.STANTEC.COM

CLIENT:
SWERVO
Development Corporation

**QUALITY FORKLIFT
IMPROVEMENTS**
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

DATE:	DESCRIPTION:	ISSUE NO.:	PROJECT TITLE:
10/13/2023	CLIENT SUBMITTAL	1	QUALITY FORKLIFT IMPROVEMENTS CITY OF SHAKOPEE SCOTT COUNTY, MINNESOTA
11/02/2023	CLIENT SUBMITTAL	2	
11/02/2023	CLIENT SUBMITTAL	3	
05/16/2023	CITY SUBMITTAL	4	
06/01/2023	CITY RESUBMITTAL	5	

CERTIFICATION:		
NOT FOR CONSTRUCTION		
PROJECT NO.:	227705401	
DWN BY:	CHK'D BY:	APP'D BY:
YMK	BMB	JRA
ISSUE DATE:	06/01/2023	
ISSUE NO.:	5	
SHEET TITLE:	EXISTING CONDITIONS	
SHEET NO.:	C-003	



NOTES

1. SEE SHEET C-002 FOR ADDITIONAL PROJECT NOTES.
2. CONSTRUCTION SITE SHALL HAVE STABILIZED EXIT AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROTECT DOWNSTREAM WATERS FROM CONSTRUCTION RUNOFF.
3. UNTRENCHED SILT FENCE OR ORANGE SNOW FENCE MAY BE USED FOR TREE PROTECTION.
4. CONSTRUCTION LIMITS AND SILT FENCE SHOWN OFFSET FROM PROPERTY LINE FOR CLARITY, WHERE APPLICABLE.
5. SANITARY SERVICE IS NOT SHOWN ON THIS PLAN. IF LOCATED DURING CONSTRUCTION, REMOVE TO ROW AND PLUG.

KEYNOTES

1. SAWCUT PAVEMENT
2. REMOVE BITUMINOUS PAVEMENT
3. REMOVE CURB AND GUTTER
4. REMOVE CONCRETE PAVEMENT
5. REMOVE TREE (TYP.)
6. REMOVE UTILITY LINE, HANDHOLES, PEDESTALS, AND POLES - COORDINATE WITH UTILITY SERVICE PROVIDER
7. REMOVE ELECTRIC METER AND SERVICE - COORDINATE WITH UTILITY SERVICE PROVIDER
8. REMOVE BUILDING/STRUCTURE AND FOUNDATIONS AND ANY UTILITY SERVICES
9. REMOVE WATER SERVICE - SEE SHEET C-803
10. INLET PROTECTION - SEE DETAIL 2007/C-801
11. SILT FENCE - SEE DETAIL 2001/C-801
12. ROCK CONSTRUCTION EXIT - SEE DETAIL 2006/C-801
13. BIOROLL
14. PROTECT EXISTING TRANSFORMER
15. REMOVE EXISTING CURB STOP
16. PROTECT EXISTING FIRE HYDRANT
17. PROTECT EXISTING TREE (TYP.)
18. REMOVE RETAINING WALL AND GUARD RAIL

LEGEND

- | | | | |
|--|----------------------------------|--|------------------------|
| | PROPERTY BOUNDARY | | ROCK CONSTRUCTION EXIT |
| | LOT LINE | | SILT FENCE |
| | EASEMENT LINE | | BIOLOG |
| | SETBACK LINE | | INLET PROTECTION |
| | RIGHT OF WAY LINE | | TREE PROTECTION |
| | SECTION LINE | | |
| | QUARTER LINE | | |
| | EXISTING EASEMENT LINE | | |
| | EXISTING PROPERTY LINE | | |
| | CONSTRUCTION LIMITS | | |
| | REMOVE UNDERGROUND ELECTRIC LINE | | |
| | REMOVE BITUMINOUS PAVEMENT | | |
| | REMOVE CONCRETE PAVEMENT | | |
| | REMOVE CURB AND GUTTER | | |
| | SAWCUT PAVEMENT | | |
| | REMOVE ELECTRIC METER | | |
| | REMOVE TRANSFORMER | | |
| | REMOVE DECIDUOUS TREE | | |

WARNING:
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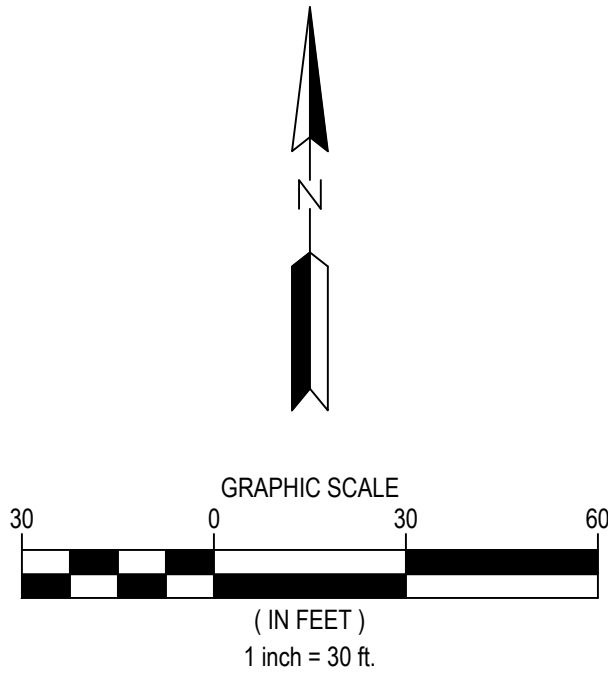
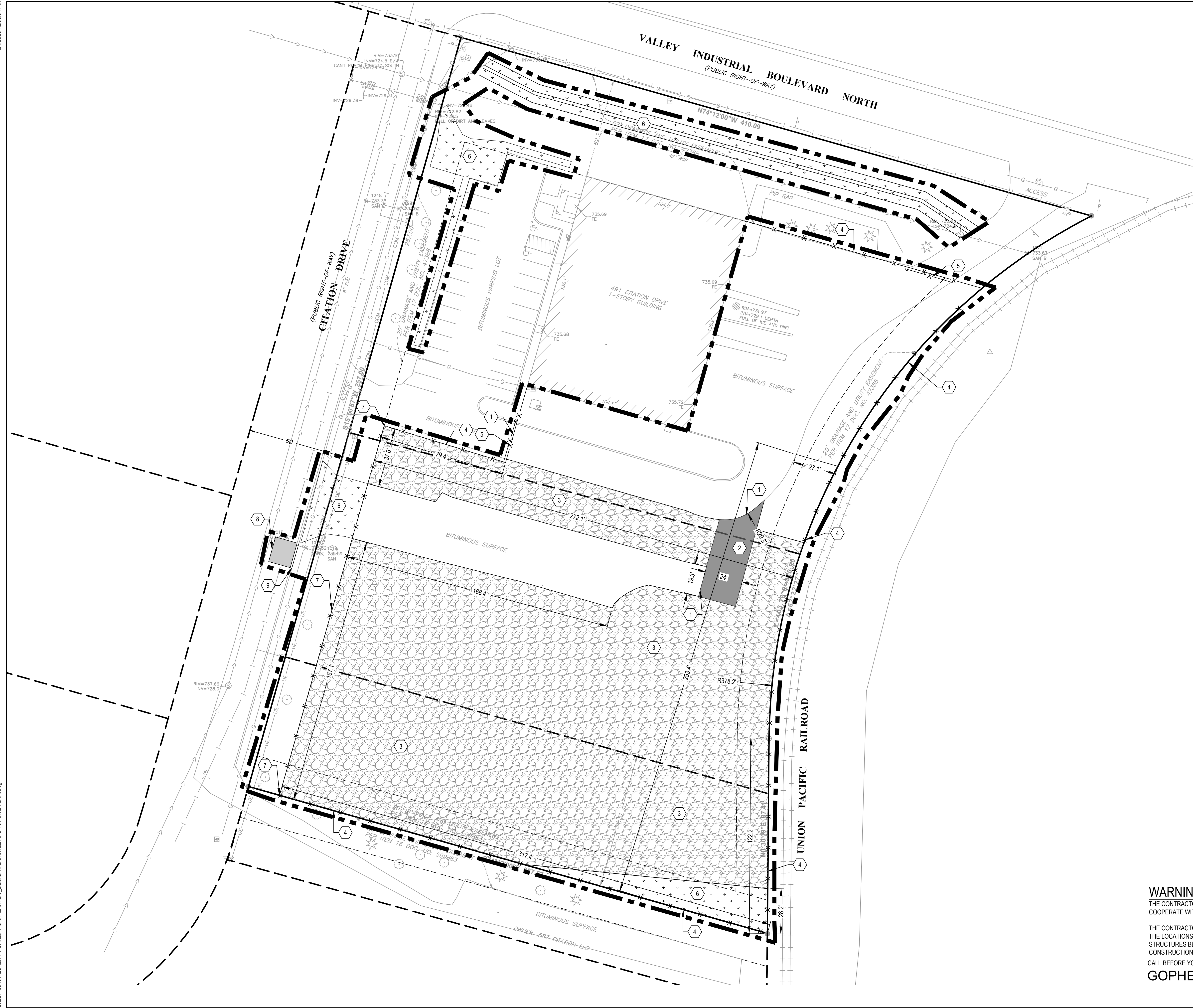
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FAX: 952-831-1268
WWW.STANTEC.COM

CLIENT:
SWERVO
Development Corporation

**QUALITY FORKLIFT
IMPROVEMENTS**
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE	
ISSUE NO.:	
1	
2	
3	
4	
5	
DESCRIPTION:	
DATE:	
10/13/2023	CLIENT SUBMITTAL
11/02/2023	CLIENT SUBMITTAL
05/16/2023	CITY SUBMITTAL
06/01/2023	CITY RESUBMITTAL

CERTIFICATION:		
PROJECT NO.: 227705401		
DWN BY: YMK	CHK'D BY: BMB	APP'D BY: JRA
ISSUE DATE: 06/01/2023		
ISSUE NO.: 5		
SHEET TITLE: REMOVALS AND PRECONSTRUCTION EROSION CONTROL PLAN		
SHEET NO.: C-004		



LEGEND

- PROPERTY BOUNDARY
- GRAVEL SURFACING
- BITUMINOUS PAVEMENT
- SEED AREA
- FENCE
- PATCH BITUMINOUS PAVEMENT

NOTES

- SEE SHEET C-002 FOR ADDITIONAL PROJECT NOTES.
- CONSTRUCTION LIMITS SHOWN OFFSET FROM FENCE FOR CLARITY.
- CONTRACTOR TO COORDINATE INSTALLATION OF LOCK BOX FOR GATES WITH FIRE DEPARTMENT.

KEYNOTES

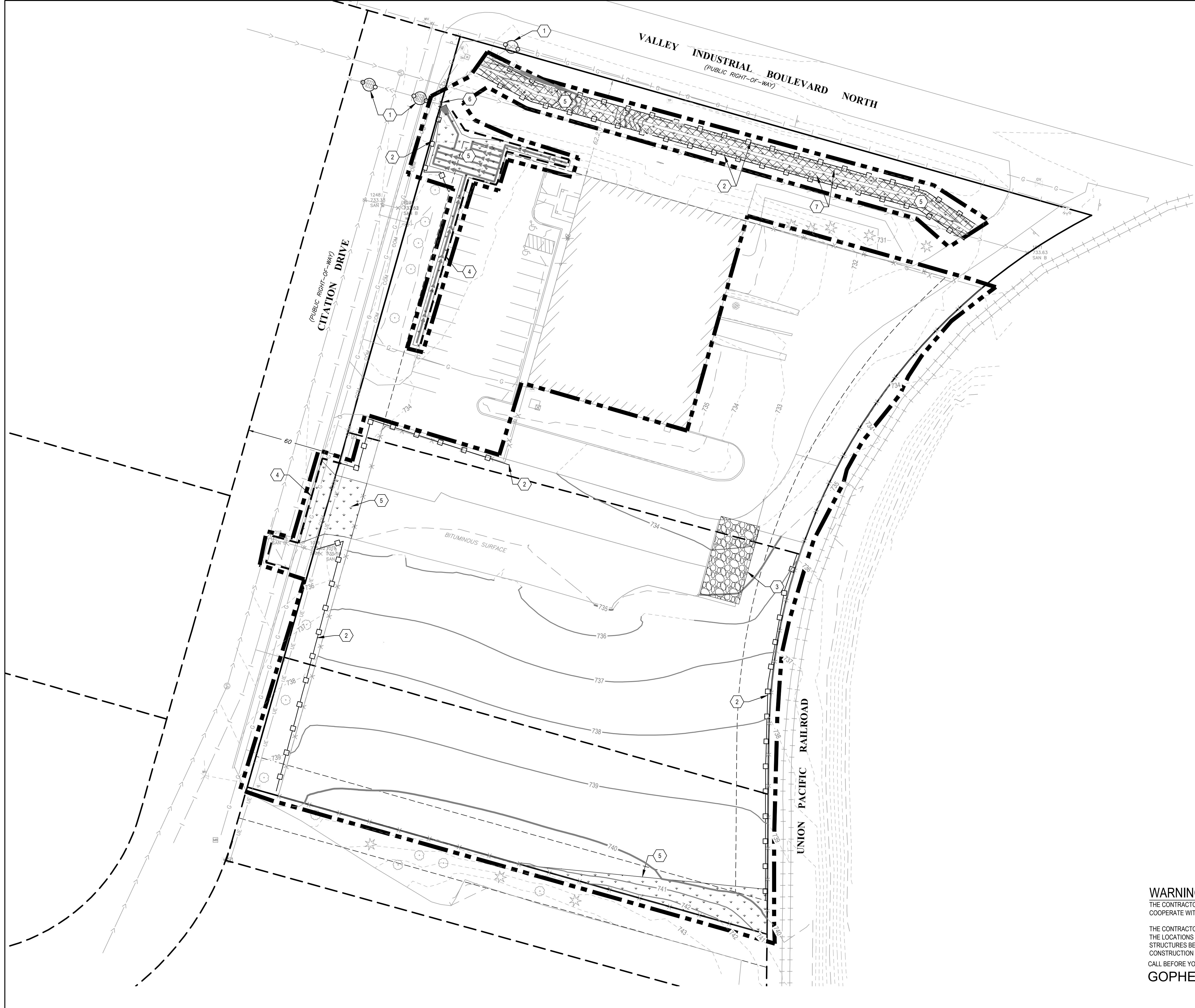
- MATCH EXISTING
- BITUMINOUS PAVEMENT - SEE DETAIL 2/C-802
- GRAVEL SURFACING - SEE DETAIL 1/C-802
- 8' TALL CHAIN LINK SECURITY FENCE. CONTRACTOR TO COORDINATE FENCE TYPE WITH OWNER PRIOR TO CONSTRUCTION
- 26' GATE - DESIGN TO BE PROVIDED BY CONTRACTOR
- SEEDING - SEE LANDSCAPE PLAN FOR SEED TYPE
- 8' TALL PRIVACY FENCE. MATERIAL TO BE VINYL. CONTRACTOR TO COORDINATE COLOR AND STYLE WITH OWNER PRIOR TO CONSTRUCTION. CHAIN LINK WITH PVC SLATS NOT ALLOWED PER CITY CODE.
- PATCH BITUMINOUS PAVEMENT - MATCH EXISTING SECTION
- CURB AND GUTTER - MATCH EXISTING

**QUALITY FORKLIFT
IMPROVEMENTS**
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE		
ISSUE NO.:		
1		
2		
3		
4		
5		
DESCRIPTION:		
DATE:	DESCRIPTION:	
10/13/2023	CLIENT SUBMITTAL	
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CERTIFICATION:		
NOT FOR CONSTRUCTION		
PROJECT NO.: 227705401		
DWN BY: YMK	CHK'D BY: BMB	APP'D BY: JRA
ISSUE DATE: 06/01/2023		
ISSUE NO.: 5		
SHEET TITLE:		
SITE PLAN		
SHEET NO.: C-101		

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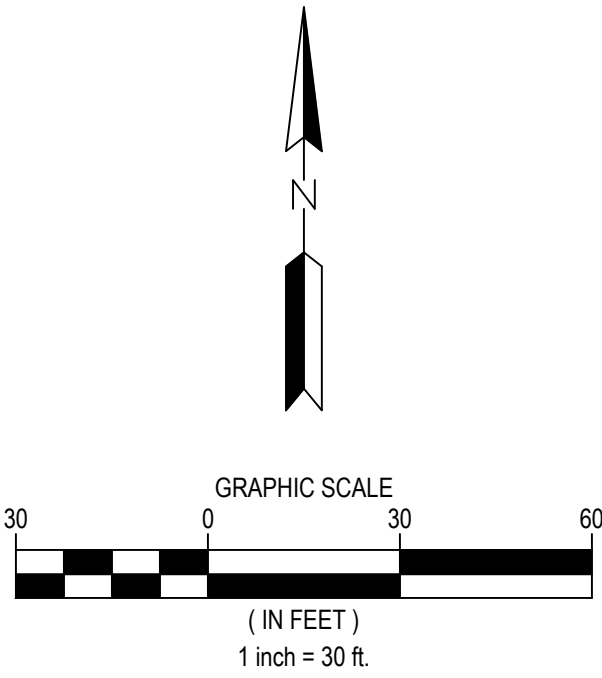
U:\27705401\QUALITY FORKLIFT CRANE SITES DESIGN\PLANS\SHEET C-201 POST-CONSTRUCTION STABILIZATION PLAN.dwg



WARNING:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG
GOPHER STATE ONE CALL
TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166



NOTES

1. SEE SHEET C-002 FOR ADDITIONAL PROJECT NOTES.
2. CONSTRUCTION SITE SHALL HAVE STABILIZED EXIT AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROTECT DOWNSTREAM WATERS FROM CONSTRUCTION RUNOFF.
3. UNTRENCHED SILT FENCE OR ORANGE SNOW FENCE MAY BE USED FOR TREE PROTECTION.
4. CONSTRUCTION LIMITS AND SILT FENCE SHOWN OFFSET FROM PROPERTY LINE FOR CLARITY, WHERE APPLICABLE.
5. EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES 4:1 AND STEEPER UPON COMPLETION OF GRADING.

KEYNOTES

1. INLET PROTECTION - SEE DETAIL 2007/C-801
2. SILT FENCE - SEE DETAIL 2001/C-801
3. ROCK CONSTRUCTION ENTRANCE - SEE DETAIL 2006/C-801
4. BIOROLL - SEE DETAIL 3/C-802
5. SEEDING - SEE LANDSCAPE PLAN FOR SEED TYPE
6. WEIR WALL - SEE DETAIL 5/C-802
7. EROSION CONTROL BLANKET - SEE DETAIL 4/C-802

LEGEND

- | | |
|--|-------------------------|
| | PROPERTY BOUNDARY |
| | LOT LINE |
| | EASEMENT LINE |
| | SETBACK LINE |
| | RIGHT OF WAY LINE |
| | SECTION LINE |
| | QUARTER LINE |
| | EXISTING EASEMENT LINE |
| | EXISTING PROPERTY LINE |
| | CONSTRUCTION LIMITS |
| | ROCK CONSTRUCTION EXIT |
| | SEEDING AREA |
| | EROSION CONTROL BLANKET |
| | SILT FENCE |
| | BIOLOG |
| | INLET PROTECTION |
| | CULVERT PROTECTION |

Stantec
7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.STANTEC.COM

CLIENT:

SWERVO
Development Corporation

**QUALITY FORKLIFT
IMPROVEMENTS**
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE

ISSUE NO.:

1	2	3	4	5
DESCRIPTION:	CLIENT SUBMITTAL	CLIENT SUBMITTAL	CLIENT SUBMITTAL	CITY RESUBMITTAL
DATE:	10/13/2023	11/09/2023	11/09/2023	05/16/2023
CERTIFICATION:				

NOT FOR CONSTRUCTION

PROJECT NO.: 227705401

DWN BY: YMK CHKD BY: BMB APP'D BY: JRA

ISSUE DATE: 06/01/2023

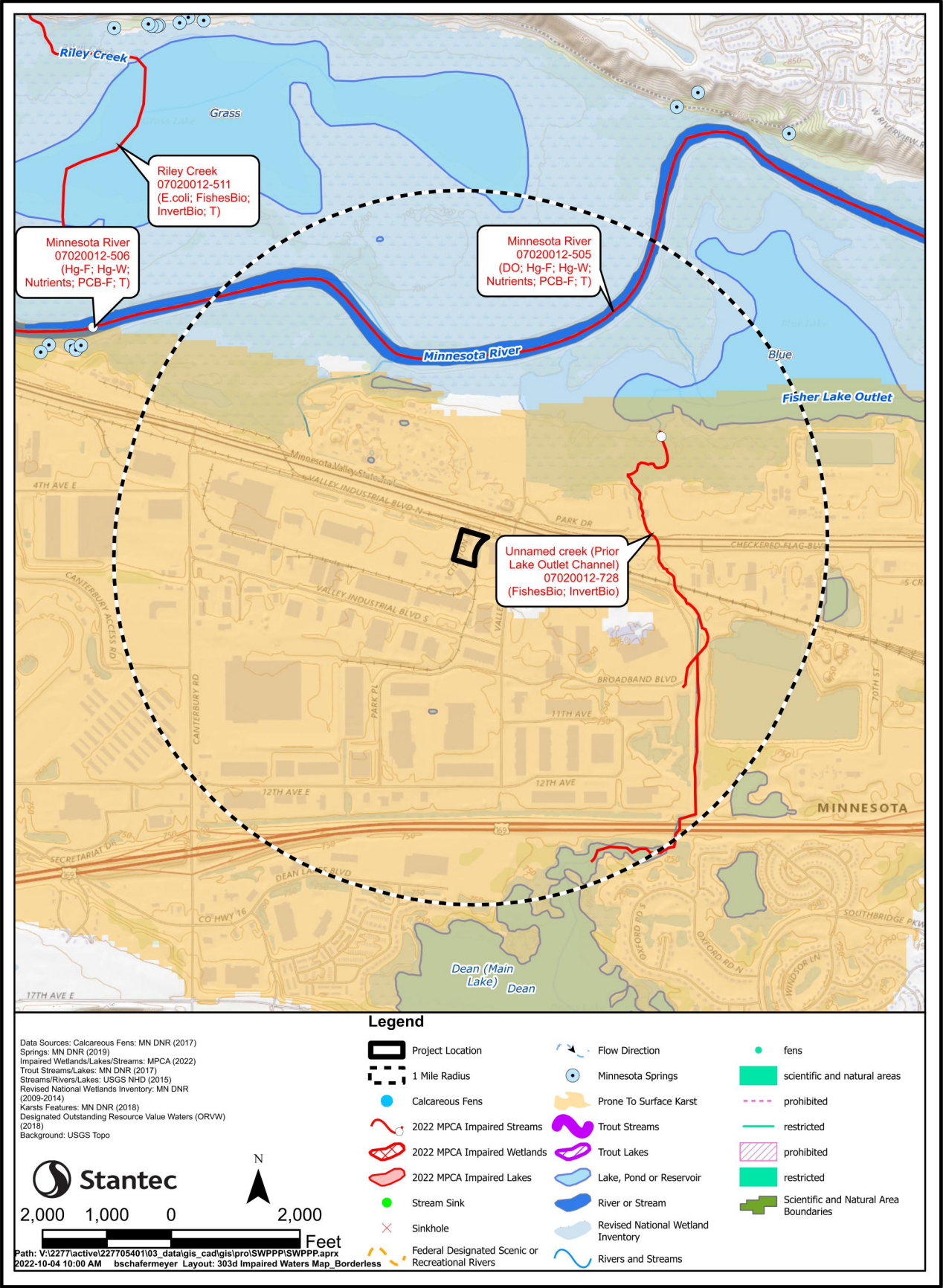
ISSUE NO.: 5

SHEET TITLE:
**POST-CONSTRUCTION
STABILIZATION PLAN**

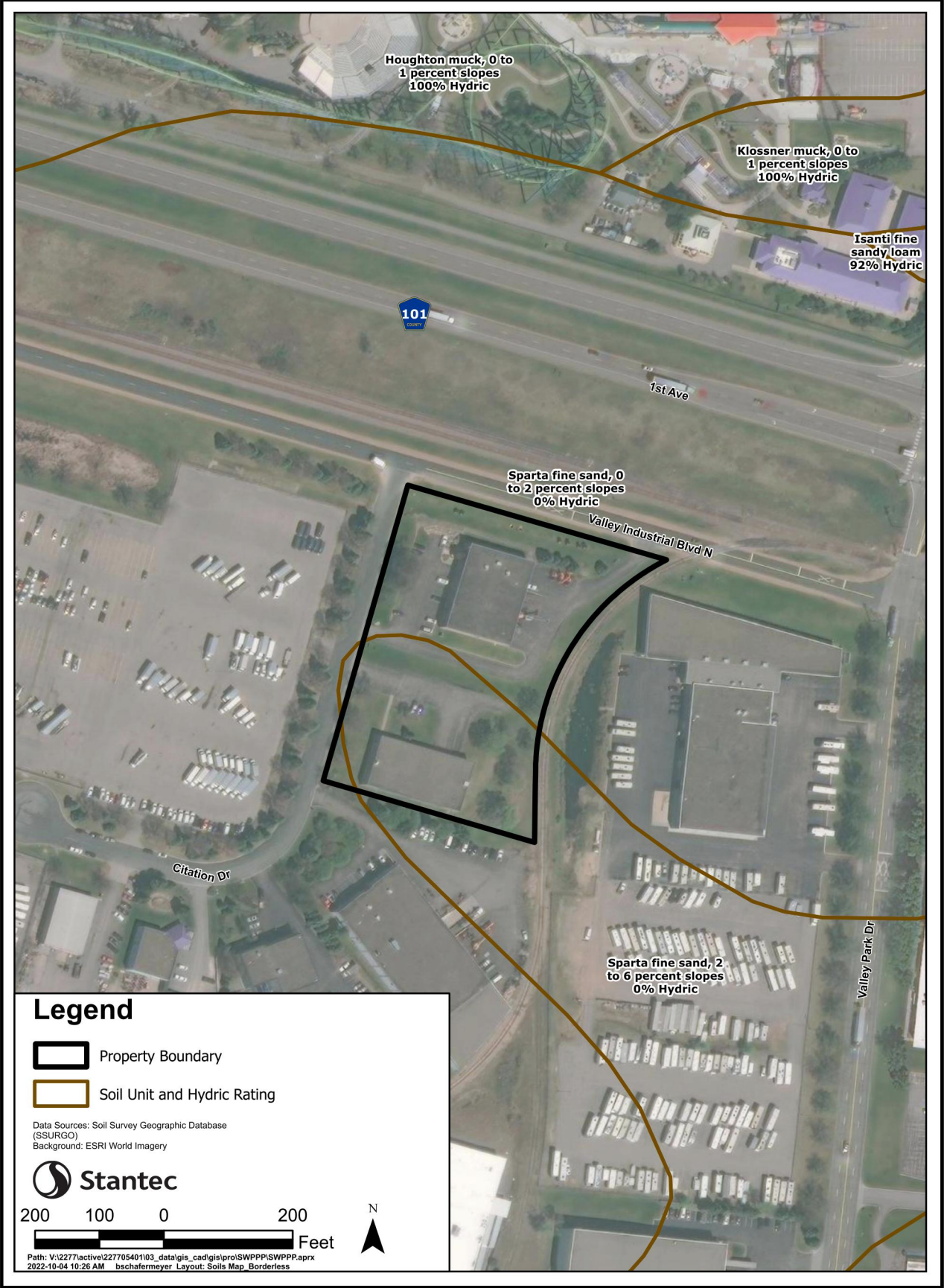
SHEET NO.:

C-201

IMPAIRED WATERS MAP



SOIL MAP



PROJECT INFORMATION

PROJECT NAME: QUALITY FORKLIFT CRANE SITE
PROJECT LOCATION: 491 CITATION DRIVE, SHAKOPEE, MN 55379
PROJECT TYPE: INDUSTRIAL GRAVEL EQUIPMENT PAD
TOTAL AREA DISTURBED BY CONSTRUCTION: APPROXIMATELY 1.4 ACRES. THE TOTAL SITE AREA IS APPROXIMATELY 3.58 ACRES.

ESTIMATED CONSTRUCTION DATES: SUMMER 2023 - SUMMER 2024
CUMULATIVE IMPERVIOUS SURFACE/PERMANENT STORMWATER MANAGEMENT REQUIREMENTS:
THE PROPOSED PROJECT RESULTS IN A 0.97 ACRE NET INCREASE IN IMPERVIOUS SURFACE WITHIN THE LIMITS OF DISTURBANCE.

THE SITE ULTIMATELY DRAINS TO THE PRIOR LAKE OUTLET CHANNEL, AND IS WITHIN 1 MILE OF THE PRIOR LAKE OUTLET CHANNEL, WHICH IS LISTED AS AN IMPAIRED WATER FOR AQUATIC LIFE, FISH BIOASSESSMENTS, AND BENTHIC MACROINVERTEBRATE BIOASSESSMENTS. THERE ARE NO CURRENT APPROVED TMDLS FOR THE WATERBODY.

THE STORMWATER MANAGEMENT SYSTEM WILL CONSIST OF A SURFACE INFILTRATION AND UNDERGROUND PIPE STORAGE FOR TREATMENT BEFORE DISCHARGING INTO THE EXISTING CITY SYSTEM STORM SEWER SYSTEM. SURFACE INFILTRATION WILL BE ACCOMPLISHED BY AN EXISTING LOW AREA ON THE NORTH PORTION OF THE SITE AND THE OUTLET WILL BE RETROFITTED WITH A NOTCH WEIR SIZED TO TREAT THE WATER QUALITY VOLUME PRIOR TO DISCHARGING INTO EXISTING STORM SEWER SYSTEM.

PARTY RESPONSIBLE FOR LONG TERM OPERATION AND MAINTENANCE OF THE SITE (OWNER): SOWLES CO.DBA NORTHWEST TOWER CRANES
CONTACT: DAN SOWLES
CONTACT PHONE: 952-698-9715
CONTACT EMAIL: DAN@SOWLES.COM
PARTY RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP (CONTRACTOR): TBD
CONTRACTOR: TBD
CONTRACTOR PHONE: TBD
CONTRACTOR EMAIL: TBD

CONTRACTOR SHALL PROVIDE A CHAIN OF RESPONSIBILITY WITH ALL OPERATORS ON THE SITE FOR INCORPORATION INTO THIS SWPPP DOCUMENT TO ENSURE THAT THE SWPPP WILL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE (THROUGH FINAL STABILIZATION AND NOT SUBMITTAL). CONTRACTOR SHALL ALSO PROVIDE DOCUMENTATION OF PERSONNEL TRAINING IN ACCORDANCE WITH THE PERMIT FOR INCORPORATION INTO THIS SWPPP DOCUMENT AS SOON AS THE PERSONNEL FOR THE PROJECT HAVE BEEN DETERMINED. CONTRACTOR IS RESPONSIBLE FOR KEEPING A FINAL SWPPP DOCUMENT, CONTAINING THE INFORMATION REQUIRED ABOVE, AT THE CONSTRUCTION SITE FOR THE DURATION OF THE PROJECT.

SWPPP DOCUMENTS

THE SWPPP IS COMPOSED OF, BUT NOT LIMITED TO, THE BELOW PROJECT DOCUMENTS. THESE DOCUMENTS SHALL BE KEPT ON THE PROJECT SITE AT ALL TIMES THROUGHOUT CONSTRUCTION. THE SWPPP SHALL BE AMENDED BY THE PERSON RESPONSIBLE TO INCLUDE ANY DOCUMENTS NECESSARY TO ENSURE ADHERENCE TO THE GENERAL PERMIT.

QUALITY FORKLIFT IMPROVEMENTS CIVIL CONSTRUCTION DRAWINGS BY STANTEC DATED JUNE, 2023
QUALITY FORKLIFT IMPROVEMENTS STORMWATER MANAGEMENT PLAN BY STANTEC DATED JUNE, 2023

RECORD RETENTION - THE SWPPP, ALL CHANGES TO IT, AND INSPECTION AND MAINTENANCE RECORDS MUST BE KEPT ON-SITE DURING CONSTRUCTION; THE CONSTRUCTION DRAWINGS ARE INCORPORATED HEREIN BY REFERENCE, AND A COPY OF THE PLAN SET SHOULD BE KEPT ON-SITE WITH THE SWPPP RECORDS, THE OWNER MUST RETAIN A COPY OF THE SWPPP ALONG WITH THE FOLLOWING RECORDS FOR THREE (3) YEARS AFTER SUBMITTAL OF THE NOTICE OF TERMINATION:

1. ANY OTHER PERMITS REQUIRED FOR THE PROJECT;
2. RECORDS OF ALL INSPECTION AND MAINTENANCE CONDUCTED DURING CONSTRUCTION;
3. ALL PERMANENT OPERATIONS AND MAINTENANCE AGREEMENTS THAT HAVE BEEN IMPLEMENTED, INCLUDING ALL RIGHT OF WAY, CONTRACT, COVENANTS AND OTHER BINDING REQUIREMENTS REGARDING PERPETUAL MAINTENANCE; AND
4. ALL REQUIRED CALCULATIONS FOR DESIGN OF THE TEMPORARY AND PERMANENT STORMWATER MANAGEMENT SYSTEMS.

INSPECTIONS

THE INSPECTION LOG WILL BE COMPLETED BY THE CONTRACTOR FOR THE CONSTRUCTION SITE. INSPECTOR(S): TBD - TRAINING DOCUMENTATION (PER SECTION 21.2 OF THE PERMIT) WILL BE INCORPORATED INTO THIS SWPPP AS SOON AS THE PERSONNEL FOR THE PROJECT HAVE BEEN DETERMINED. THE CONTRACTOR WILL MAKE CORRECTIONS OR REPAIRS REQUIRED TO COMPLY WITH THE PERMIT.

INSPECTIONS AT THE SITE WILL BE COMPLETED IN ACCORDANCE WITH THE PERMIT AS FOLLOWS:
ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND
WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.

1. THE INDIVIDUAL PERFORMING INSPECTIONS MUST BE TRAINED AS REQUIRED BY SECTION 21.3 OF THE PERMIT. TRAINING DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR FOR INCORPORATION INTO THE SWPPP. INSPECTIONS MUST INCLUDE STABILIZED AREAS, EROSION PREVENTION AND SEDIMENT CONTROL BMPs, AND INFILTRATION AREAS. CORRECTIVE ACTIONS MUST BE IDENTIFIED AND DATE OF CORRECTION MUST BE NOTED AS IDENTIFIED IN SECTION 11.11 OF THE PERMIT. ANY OFFSITE DISCHARGE MUST BE DOCUMENTED AS IDENTIFIED IN SECTION 11.11 OF THE PERMIT. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED WITHIN SEVEN (7) CALENDAR DAYS. AN INSPECTION LOG IS ALSO ATTACHED; THE INSPECTION LOG AND SWPPP MUST BE KEPT ON-SITE FOR THE DURATION OF THE CONSTRUCTION PROJECT.
AT A MINIMUM, THE FOLLOWING SHALL BE COMPLETED DURING EACH INSPECTION:
-RECORD DATE AND TIME OF INSPECTION.
-RECORD RAINFALL RECORDS SINCE THE MOST RECENT INSPECTION.
-INSPECT THE SITE FOR EXCESS EROSION AND SEDIMENTATION.
-INSPECT THE SITE FOR DEBRIS, TRASH, AND SPILLS.
-INSPECT TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES.
-INSPECT CONSTRUCTION ENTRANCES FOR SEDIMENT TRACKING ONTO PUBLIC STREETS.
-RECORD RECOMMENDED REPAIRS AND MODIFICATIONS TO EROSION AND SEDIMENT CONTROLS.
-RECOMMEND ANY NECESSARY CHANGES TO THIS SWPPP.
-RECORD REPAIRS AND MODIFICATIONS IMPLEMENTED SINCE PREVIOUS INSPECTIONS.
-INSPECT THE ADJACENT STREETS AND CURB AND GUTTER FOR SEDIMENT, LITTER, AND CONSTRUCTION DEBRIS.

THE GENERAL CONTRACTOR MUST UPDATE THE SWPPP, INCLUDING THE JOBSITE BINDER AND SITE MAPS, TO REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO THE PROJECT SITE. UPDATES SHALL BE MADE DAILY TO TRACK PROGRESS WHEN ANY OF THE FOLLOWING ACTIVITIES OCCUR: BMP INSTALLATION, MODIFICATION OR REMOVAL, CONSTRUCTION ACTIVITIES (E.G. PAVING, SEWER INSTALLATION, ETC), CLEARING, GRUBBING, GRADING, OR TEMPORARY AND PERMANENT STABILIZATION.

THE CONTRACTOR MAY UPDATE OR MODIFY THE SWPPP WITHOUT ENGINEER APPROVAL IN AN EMERGENCY SITUATION TO PREVENT SEDIMENT DISCHARGE OR PROTECT WATER QUALITY. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO ENSURE COMPLIANCE WITH THE PERMIT AND PROTECTION OF DOWNSTREAM WATER QUALITY.

EROSION AND SEDIMENT CONTROL

PRIOR TO ANY SITE DISTURBANCE, AND AS REQUIRED AS CONSTRUCTION PROGRESSES, ANY PERMIT REQUIRED EROSION PREVENTION MEASURES AND THE SEDIMENT CONTROL DEVICES (INLET PROTECTION, CONSTRUCTION ENTRANCE, SILT FENCE) SHOWN ON THE CONSTRUCTION DRAWINGS WILL BE INSTALLED AT THE SITE.

ALL EXPOSED SOIL AREAS WITHIN THE CONSTRUCTION LIMITS WILL BE STABILIZED WITHIN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY (WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS) OR PERMANENTLY CEASED. STABILIZATION WILL BE INITIATED IMMEDIATELY. EXPOSED SOIL AREAS MUST HAVE TEMPORARY EROSION PROTECTION (SLASH MULCH, EROSION CONTROL BLANKET, SEED) OR PERMANENT COVER YEAR ROUND.

CONTRACTOR SHALL IMPLEMENT APPROPRIATE CONSTRUCTION PHASING, VEGETATIVE BUFFER STRIPS, HORIZONTAL SLOPE GRADING, AND OTHER CONSTRUCTION PRACTICES THAT MINIMIZE EROSION WHEN PRACTICAL. THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH THAT DRAINS WATER FROM A CONSTRUCTION SITE, OR DIVERTS WATER AROUND A SITE, MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER. STABILIZATION MUST BE COMPLETED WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER. PIPE OUTLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER.

- SWPPP IMPLEMENTATION, PHASING, AND SEQUENCE OF CONSTRUCTION:
- BMP AND EROSION CONTROL INSTALLATION SEQUENCE SHALL BE AS FOLLOWS:
1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE, CONCRETE WASHOUT PIT, AND INSTALL SILT FENCE.
 2. INSTALL INLET PROTECTION AT EXISTING STORMWATER CULVERTS AND INLETS.
 3. PREPARE TEMPORARY STORAGE, PARKING, AND PHASING AREAS.
 4. CONSTRUCT AND STABILIZE DIVERSIONS AND TEMPORARY SEDIMENT TRAPS/BASINS.
 5. PERFORM CLEARING AND GRUBBING OF THE SITE, IF APPLICABLE.
 6. PERFORM MASS GRADING, ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
 7. BEGIN EXCAVATION OF PERMANENT STORMWATER BASIN AREAS. SEE SEQUENCING BELOW FOR ADDITIONAL INFORMATION.
 8. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
 9. INSTALL SMALL UTILITIES (GAS, ELECTRIC, PHONE, CABLE, ETC.).
 10. PAVE CURB AND GUTTER, SIDEWALK, AND PARKING LOT/ DRIVEWAYS.
 11. TEMPORARILY SEED WITH PURE LIVE SEED THROUGHOUT CONSTRUCTION. DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE AS REQUIRED BY NPDES OR PERMIT.

SEDIMENT CONTROL PRACTICES MUST MINIMIZE SEDIMENT FROM ENTERING SURFACE WATERS, INCLUDING CURB AND GUTTER SYSTEMS AND STORM SEWER INLETS. THE FOLLOWING MEASURES WILL BE TAKEN AS SEDIMENT CONTROL PRACTICES IN ORDER TO MINIMIZE SEDIMENTS FROM ENTERING SURFACE WATERS:

1. INSTALLATION OF SEDIMENT CONTROL PRACTICES ON ALL DOWN GRADIENT PERIMETERS PRIOR TO LAND DISTURBING ACTIVITIES.
2. SILT FENCING, BIOLOGS, OR OTHER SEDIMENT CONTROL SURROUNDING TEMPORARY SOIL STOCKPILES.
3. VEHICLE TRACKING BMP AT CONSTRUCTION SITE ENTRANCE/EXIT. STREET SWEEPING SHALL BE PERFORMED IF VEHICLE TRACKING BMPs ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES BOTH ON AND OFFSITE WITHIN 24 HOURS OF DISCOVERY PER THE PERMIT.
4. STREET SWEEPING IS NOT TO BE USED AS A PRIMARY BMP FOR SEDIMENT TRACKING. IF SEDIMENT IS TRACKED OFFSITE, WORK WILL CEASE UNTIL PROPER EROSION CONTROL AND SEDIMENT CONTROL DEVICES ARE INSTALLED AND/OR BEING MAINTAINED TO PREVENT TRACKING BEYOND THE SITE'S PERIMETER (CONTAINMENT AREA). ALL STREET SWEEPING MUST BE PERFORMED UTILIZING A PICK-UP SWEEPER. IF NECESSARY WATER WILL ALSO BE USED TO CLEAN UP THE STREETS PRIOR TO BEING SWEEPED TO ENSURE THEY ARE FULLY CLEARED.

THE FOLLOWING GUIDELINES WILL BE USED TO DETERMINE IF POLLUTION CONTROL DEVICES REQUIRE MAINTENANCE, REPAIR, OR REPLACEMENT:

-IF SEDIMENT CONTROL DEVICES SUCH AS SILT FENCE ARE FILLED TO 1/3 THE HEIGHT OF THE FENCE, REMOVE ALL SEDIMENT WITHIN 24 HOURS OF DETECTION OR NOTIFICATION.

-IF INLET PROTECTION DEVICES APPEAR PLUGGED WITH SEDIMENT, ARE FILLED TO 1/3 CAPACITY, OR HAVE STANDING WATER AROUND THEM, REMOVE THE SEDIMENT AND CLEAN OR REPLACE THE FILTER WITHIN 24 HOURS OF DETECTION OR NOTIFICATION.

-IF THE GRAVEL CONSTRUCTION ENTRANCE(S) ARE FILLED WITH SEDIMENT EITHER REPLACE THE ENTRANCE OR ADD ADDITIONAL GRAVEL WITH 24 HOURS OF DETECTION OR NOTIFICATION.

-IF SEDIMENT FROM THE SITE IS OBSERVED ON ADJACENT STREETS OR OTHER PROPERTIES, THE INSPECTOR SHALL IDENTIFY THE SOURCE AND DISCHARGE LOCATION OF THE SEDIMENT AND INSTRUCT TO IMPLEMENT ADDITIONAL EROSION AND SEDIMENT CONTROLS AT THOSE LOCATIONS TO PREVENT FUTURE DISCHARGES.

-IF BUILDING MATERIALS, CHEMICALS, OR GENERAL REFUSE IS BEING USED, STORED, DISPOSED OF, OR OTHERWISE MANAGED INAPPROPRIATELY, CORRECT SUCH DEFECTS WITHIN 24 HOURS OF DETECTION OR NOTIFICATION.

-IF EXCESSIVE SEDIMENTS OR DEBRIS ARE OBSERVED AT THE FLARED END SECTION OUTFALLS, THE INSPECTOR SHALL DETERMINE THE SOURCE AND DISCHARGE LOCATIONS OF SUCH MATERIALS. IF THE DISCHARGE HAS OCCURRED ON THE PROPERTY, REMOVE THE SEDIMENTS AND DEBRIS WITHIN 24 HOURS OF NOTIFICATION AND CORRECT THE SOURCE OF SUCH MATERIALS AS DIRECTED BY THE INSPECTOR

POLLUTION PREVENTION MEASURES

SOLID WASTE:
SOLID WASTE, INCLUDING BUT NOT LIMITED TO, COLLECTED ASPHALT AND CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION AND DEMOLITION DEBRIS AND OTHER WASTE, INCLUDING ALL TRASH ONSITE, MUST BE REGULARLY DISPOSED OF PROPERLY AND MUST COMPLY WITH MPCA DISPOSAL REQUIREMENTS.

HAZARDOUS MATERIALS:
HAZARDOUS MATERIALS, INCLUDING BUT NOT LIMITED TO OIL, GASOLINE, PAINT AND ANY HAZARDOUS SUBSTANCE MUST BE PROPERLY STORED 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 MPCA REGULATIONS.

CONSTRUCTION EQUIPMENT/VEHICLES:
EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES MUST BE LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF MUST BE CONTAINED AND WASTE PROPERLY DISPOSED OF. NO ENGINE DEGREASING IS ALLOWED ON SITE. REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS SHALL BE TAKEN. ADEQUATE SUPPLIES MUST BE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS; CONDUCT FUELING IN A CONTAINED AREA UNLESS INFEASIBLE.

CONCRETE WASHOUT AREA:
CONCRETE WASHOUT WILL BE PERMITTED ON-SITE; CONTRACTOR SHALL FOLLOW ALL PERMIT REQUIREMENTS FOR CONCRETE WASHOUT. THE CONTRACTOR SHALL PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS. LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND AND THE CONTAINMENT MUST BE DESIGNED TO PROHIBIT RUNOFF FROM THE WASHOUT OPERATIONS/AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA RULES. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY THAT REQUIRES SITE PERSONNEL TO UTILIZE THE PROPER FACILITIES FOR CONCRETE WASHOUT AND DISPOSAL OF WASHOUT WASTES. CONTRACTOR SHALL REVISE SWPPP TO INDICATE WASHOUT LOCATION ONCE THE LOCATION HAS BEEN DETERMINED.

FERTILIZERS AND LANDSCAPE MATERIALS MUST BE UNDER COVER TO PREVENT THE DISCHARGE OF POLLUTANTS OR PROTECTED BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.

PORTABLE TOILETS MUST BE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE MUST BE DISPOSED OF PROPERLY.

GENERAL SWPPP NOTES

DEWATERING IS NOT ANTICIPATED TO BE REQUIRED DURING TRENCHING FOR UTILITY CONSTRUCTION. IN THE EVENT THAT DEWATERING IS NECESSARY CONTRACTOR SHALL COMPLY WITH PERMIT SECTION 10.1 REQUIREMENTS FOR DEWATERING.

THIS SWPPP SHALL BE AMENDED BY THE CONTRACTOR IN ACCORDANCE WITH THE PERMIT AS NECESSARY TO INCLUDE ADDITIONAL REQUIREMENTS, TO CORRECT PROBLEMS IDENTIFIED, OR TO ADDRESS SITUATIONS PER SECTION 6.1 OF THE PERMIT.

THE PROJECT WILL DISTURB LESS THAN 5 ACRES THAT PROMOTE DRAINAGE TO A COMMON LOCATION, THEREFORE A TEMPORARY SEDIMENT BASIN WILL NOT BE REQUIRED. THIS SWPPP SHALL BE AMENDED BY THE CONTRACTOR IN ACCORDANCE WITH THE GENERAL PERMIT TO INCLUDE TEMPORARY SEDIMENTATION BASINS, IF THEY BECOME NECESSARY. BASIN OUTLETS SHALL BE DESIGNED TO WITHDRAW WATER FROM THE SURFACE OF THE BASIN, PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS. BASINS SHALL HAVE A STABILIZED EMERGENCY OVERFLOW LOCATION AND BE DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS TO THE EXTENT PRACTICAL.

FINAL STABILIZATION:
ALL PERVIOUS AREAS DISTURBED BY CONSTRUCTION AS DESIGNATED WILL RECEIVE VEGETATIVE COVER ACCORDING TO THE PLANS AND SPECIFICATIONS AND WITHIN THE SPECIFIED VEGETATIVE TIME SCHEDULE. FINAL STABILIZATION WILL OCCUR WHEN THE SITE HAS A UNIFORM VEGETATIVE COVER WITH A DENSITY OF 70% OVER THE RESTORED PERVIOUS AREAS. ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPs (SUCH AS SILT FENCE) MUST BE REMOVED AS PART OF THE SITE FINAL STABILIZATION. ALL SEDIMENT MUST BE CLEANED OUT OF CONVEYANCES AND TEMPORARY SEDIMENTATION BASINS IF APPLICABLE. NOTICE OF TERMINATION (NOT) MUST BE SUBMITTED WITHIN 30 DAYS OF FINAL STABILIZATION.

IMPAIRED WATERS, SPECIAL WATERS, AND WETLANDS

THIS PROJECT IS LOCATED WITHIN ONE MILE OF AN IMPAIRED WATER. THE PRIOR LAKE OUTLET CHANNEL IS LOCATED SOUTHEAST OF THE PROJECT LOCATION AND IS LISTED AS IMPAIRED FOR AQUATIC LIFE, FISH BIOASSESSMENTS, AND BENTHIC MACROINVERTEBRATE BIOASSESSMENTS. DISCHARGE TO AN IMPAIRED WATER REQUIRES IMPLEMENTATION OF SECTION 23.1 OF THE PERMIT AS INCORPORATED INTO THIS SWPPP DOCUMENT.

THE PROJECT SITE DISCHARGES TO THE PUBLIC RIGHT-OF-WAY. THE PROJECT WILL NOT IMPACT WETLANDS.
SITE SOILS - SITE SOILS ARE SHOWN ON THIS SHEET. THIS PROJECT IS NOT LOCATED IN A KARST AREA.

ESTIMATED BMP QUANTITIES AND INSTALLATION SCHEDULE

THE ADJACENT TABLE INDICATES THE ESTIMATED MATERIAL QUANTITIES NECESSARY TO IMPLEMENT THE TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BMPs IDENTIFIED IN THIS SWPPP AND ON THE CONSTRUCTION DRAWINGS. TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BMPs WILL BE INSTALLED/CONSTRUCTED WHEN NECESSARY AS CONSTRUCTION ACTIVITIES PROGRESS AND IN ACCORDANCE WITH THE NPDES PERMIT REQUIREMENTS.

MAINTAIN AND REPLACE BMPs DURING THE EXECUTION OF THE PROJECT AS REQUIRED TO CONTINUE SWPPP COVERAGE DURING CONSTRUCTION

ESTIMATED BMP QUANTITIES		
ITEM	QUANTITY	UNIT
INLET PROTECTION	2	EA
TURF ESTABLISHMENT	0.2	AC
EROSION CONTROL BLANKET	358	SY
SILT FENCE	1245	LF
BIOROLL	297	LF
CONSTRUCTION EXIT	1	EA

NOTE: QUANTITIES ON PLAN SUPERCEDES LIST QUANTITIES IN A DISCREPANCY

CERTIFICATION

IN ACCORDANCE WITH SECTION 21 OF THE GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES, THE PREPARER OF THIS DOCUMENT WAS TRAINED UNDER THE UNIVERSITY OF MINNESOTA EROSION AND SEDIMENT CONTROL CERTIFICATION PROGRAM. JACK AMMERMAN'S CERTIFICATION IN DESIGN OF SWPPP IS VALID THROUGH MAY 2024.

Jack Ammerman



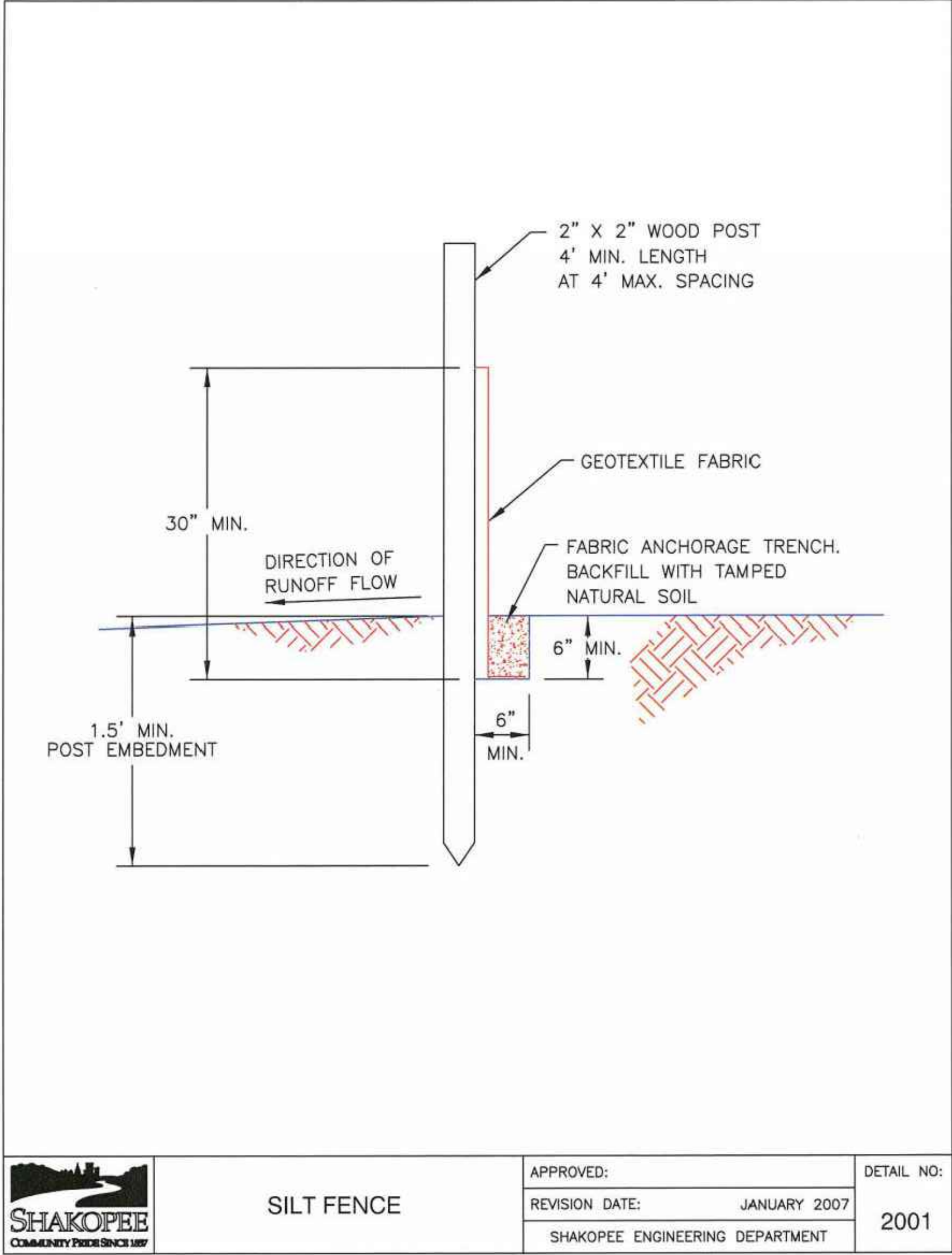
7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.STANTEC.COM

CLIENT:



QUALITY FORKLIFT IMPROVEMENTS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE:		ISSUE NO.:				
DESCRIPTION:	DATE:	10/13/2022	10/20/2022	11/02/2022	05/16/2023	06/01/2023
		CLIENT SUBMITTAL	CLIENT SUBMITTAL	CLIENT SUBMITTAL	CITY SUBMITTAL	CITY RESUBMITTAL
		1	2	3	4	5
CERTIFICATION:						
NOT FOR CONSTRUCTION						
PROJECT NO.:		227705401				
DWN BY:	YMK	CHK'D BY:	BMB	APP'D BY:	JRA	
ISSUE DATE:		06/01/2023				
ISSUE NO.:		5				
SHEET TITLE:		SWPPP				
SHEET NO.:		C-202				



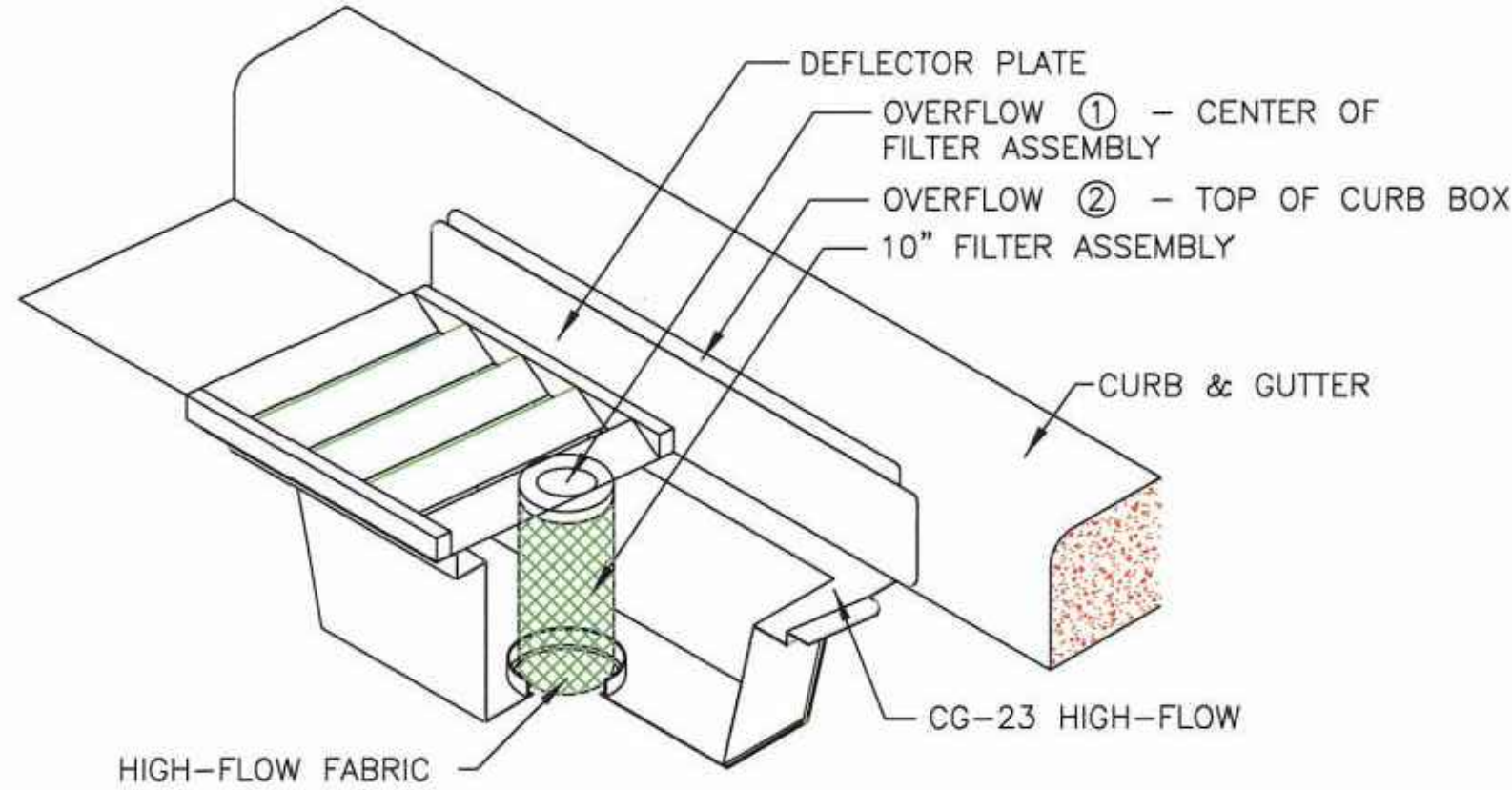
ROAD DRAIN — CURB & GUTTER MODEL #CG 3067V
AS MANUFACTURED BY:
WIMCO LLC., SHAKOPEE, MN.,
ESS BROS., LORETTO, MN., OR APPROVED EQUAL

SPECIFICATIONS AND STANDARDS

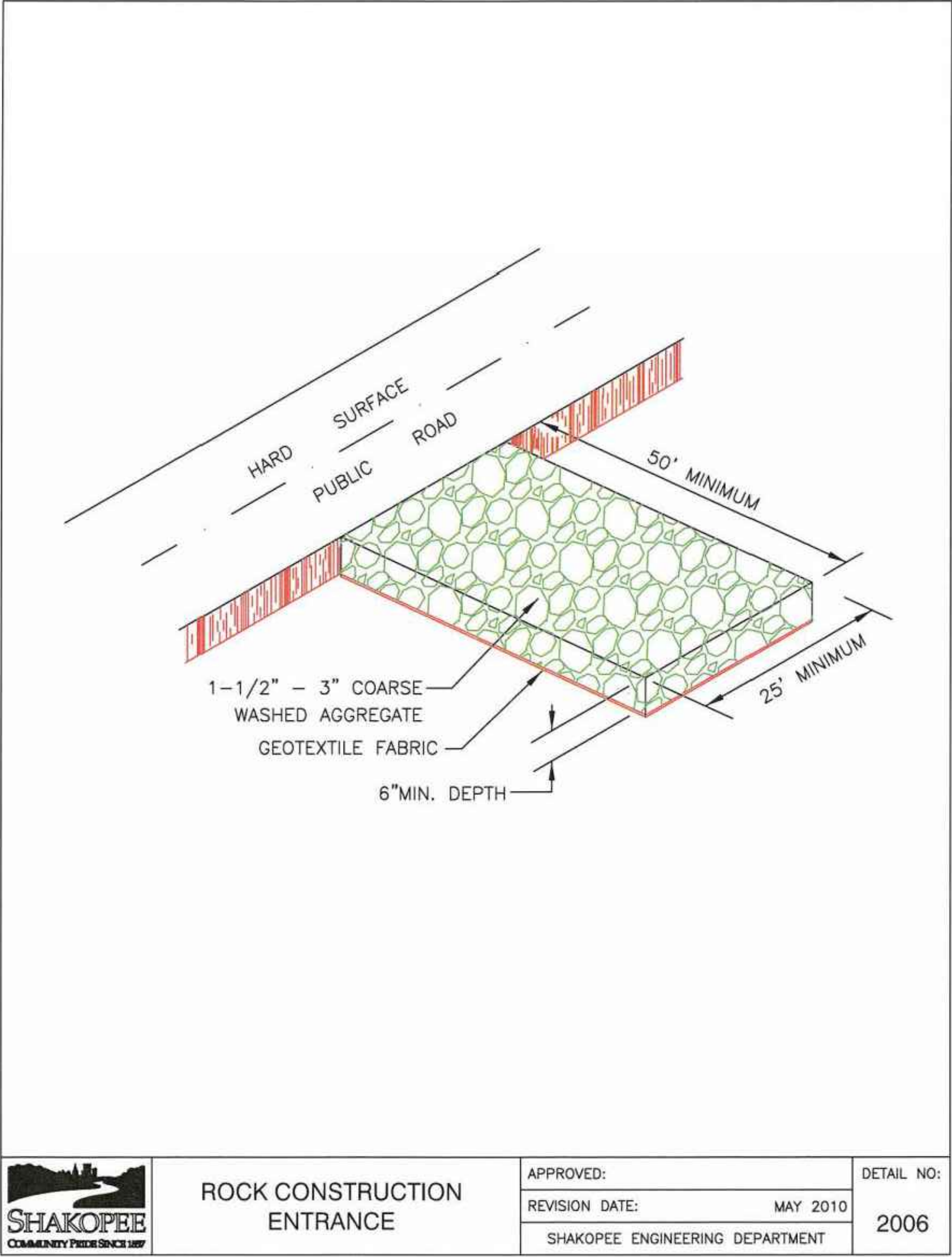
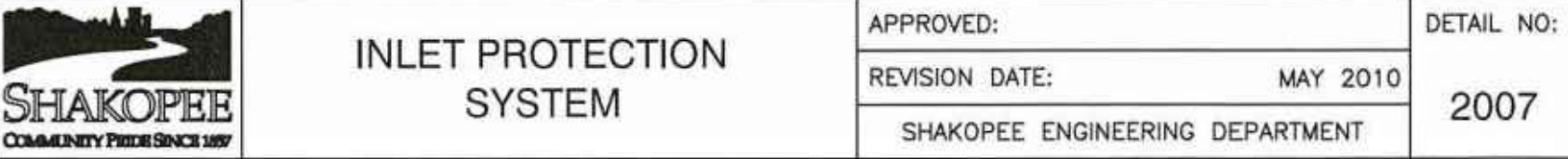
- AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION.
- AWS STRUCTURAL WELDING CODE — STEEL, D1.1-94.
- 29 CFR 1926 — OSHA SAFETY AND HEALTH STANDARDS

DESIGN LOADS

WATER FLOW RATE (THROUGH TYPE FF FILTER) 0.707 cfs @ 3" head
MAXIMUM OVERFLOW RATE 5.94 cfs @ 15" head



NOTE:
Clean filter media after each rain event and replace if filter is clogged with sediment.
Remove debris/sediment from receptacle after each rain event.



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CALL BEFORE YOU DIG
GOPHER STATE ONE CALL
TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166

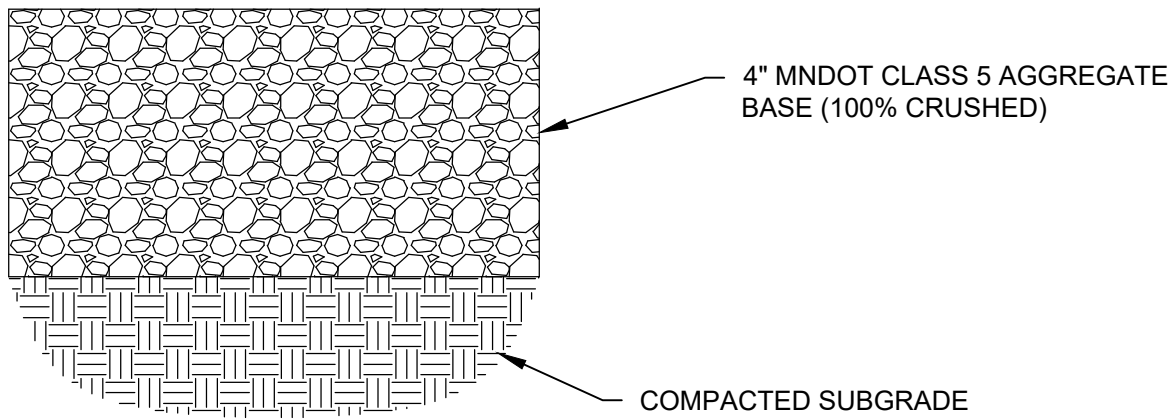

7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.STANTEC.COM

CLIENT:

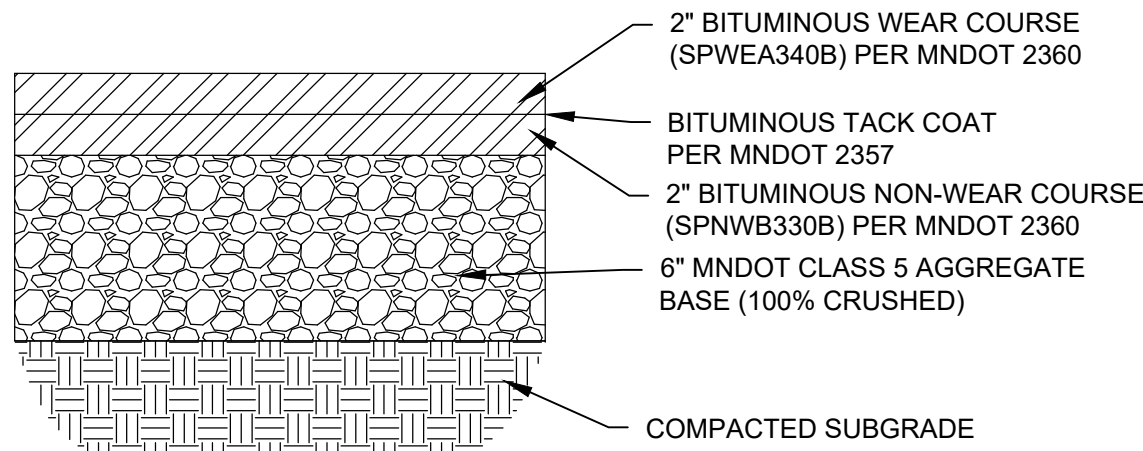
Development Corporation

QUALITY FORKLIFT
IMPROVEMENTS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

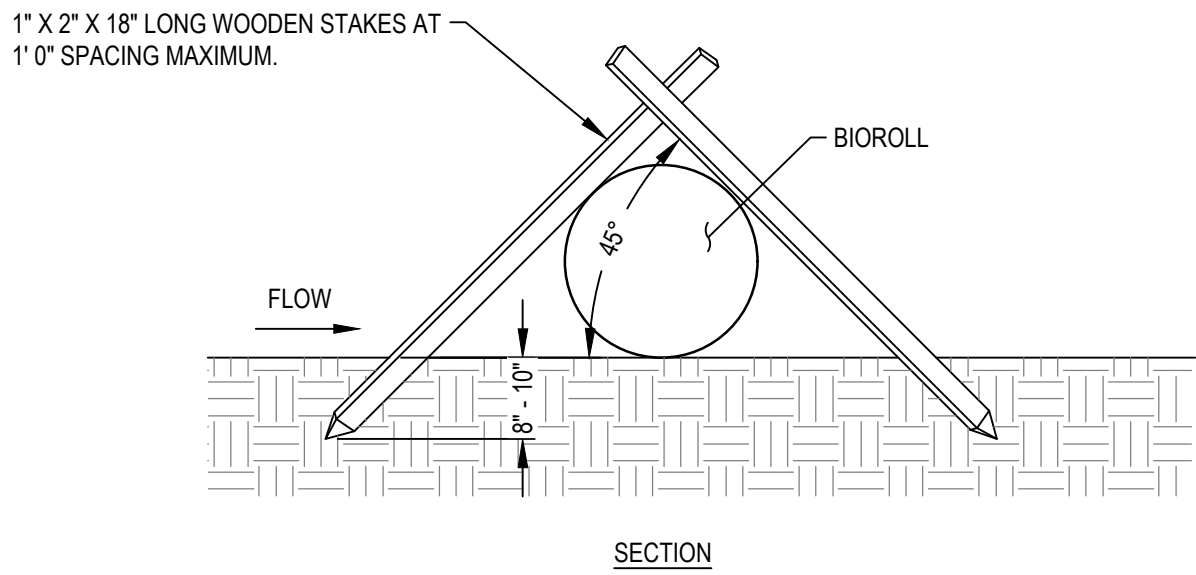
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DESCRIPTION:	DATE:	10/13/2022	1						
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	CLIENT SUBMITTAL	11/09/2022	3						
	CITY SUBMITTAL	05/16/2023	4						
	CITY RESUBMITTAL	06/01/2023	5						
CERTIFICATION:									
NOT FOR CONSTRUCTION									
						PROJECT NO.:		227705401	
						DWN BY:	CHK'D BY:	APP'D BY:	
						YMK	BMB	JRA	
						ISSUE DATE:		06/01/2023	
ISSUE NO.:		5							
SHEET TITLE:									
DETAILS									
SHEET NO.:									
C-801									



1 GRAVEL SECTION
C-802 NOT TO SCALE

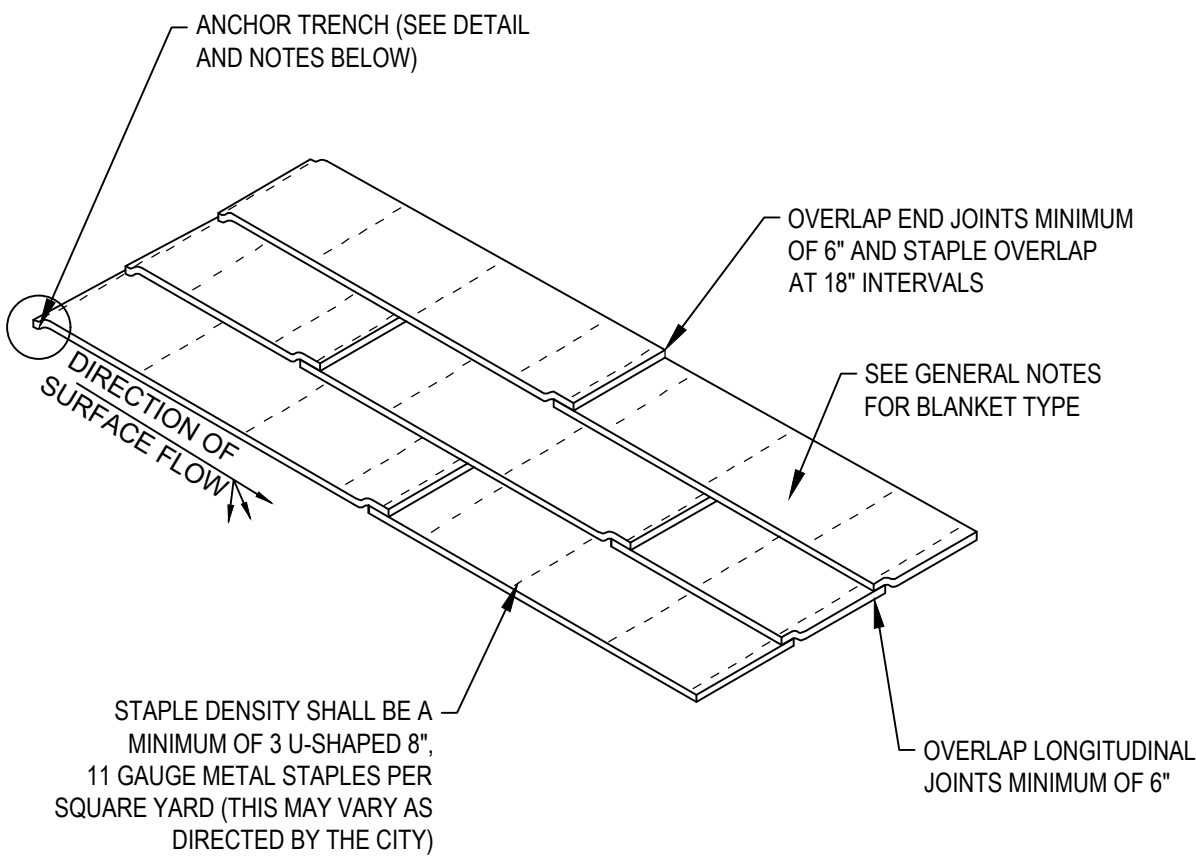


2 MEDIUM DUTY BITUMINOUS PAVEMENT
C-802 NOT TO SCALE



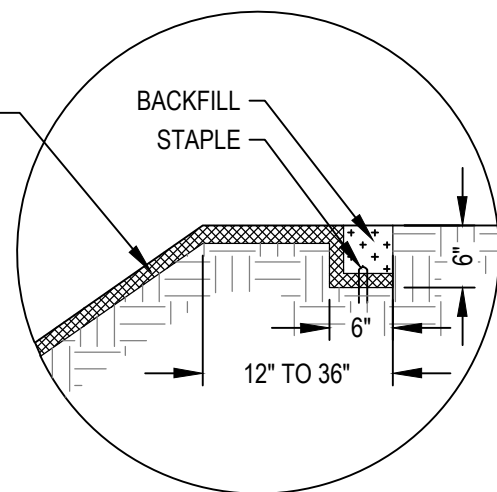
NOTE: IF PLACED ON PAVED SURFACE, DO NOT STAKE INTO SURFACE. CONTRACTOR SHALL ENSURE BIOROLL IS PROPERLY FUNCTIONING AT LEAST DAILY AND AS REQUIRED BY THE SWPPP/NPDES PERMIT, IF APPLICABLE.

3 BIOROLL
C-802 NOT TO SCALE



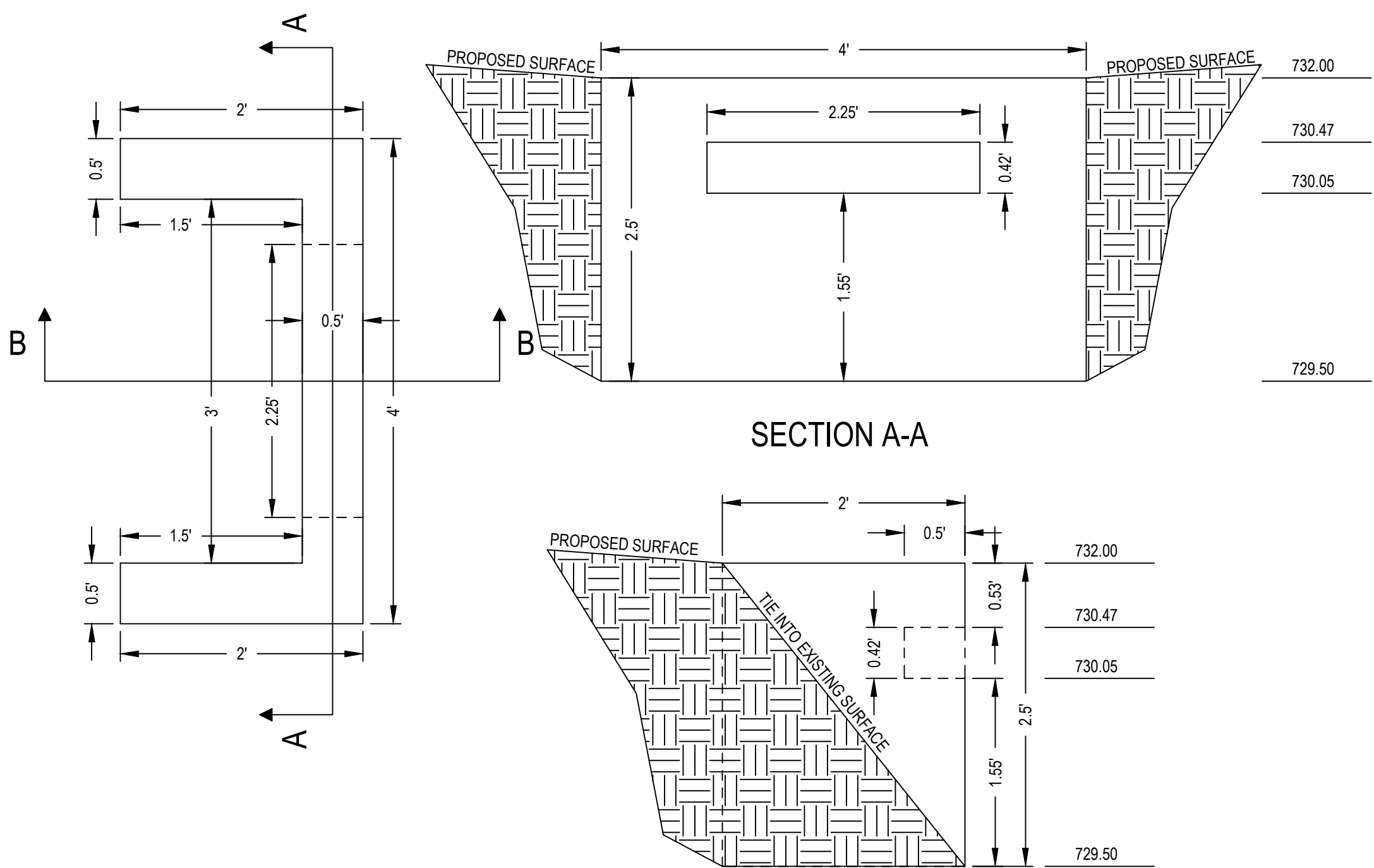
ISOMETRIC

ANCHOR TRENCH INSTALLATION:
1. DIG 6" X 6" TRENCH
2. LAY BLANKET IN TRENCH
3. STAPLE AT 1.5' INTERVALS
4. BACKFILL WITH NATURAL SOIL AND COMPACT



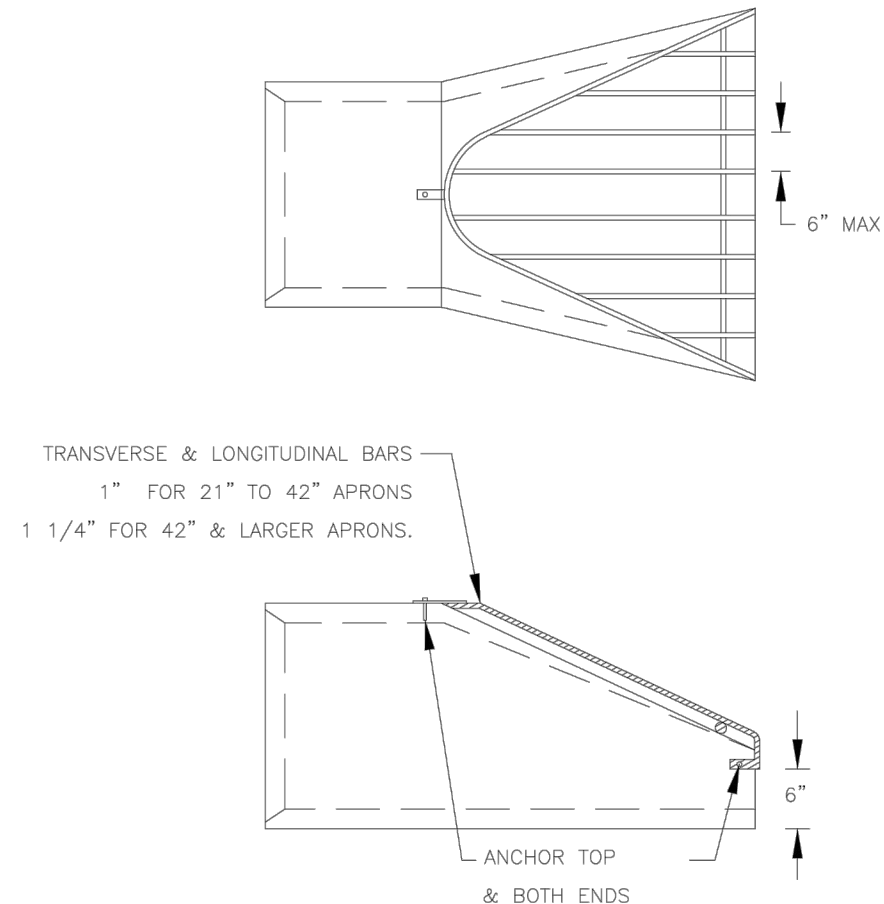
ANCHOR TRENCH DETAIL

4 EROSION CONTROL BLANKET INSTALLATION
C-802 NOT TO SCALE



NOTES:
1. WEIR TO ENCOMPASS EXISTING CULVERT
2. CONTRACTOR TO GRADE ADJACENT TO WEIR AS NEEDED TO TIE SURFACE INTO SIDES AND CREST OF WEIR

5 CONCRETE WEIR WITH 5" X 27" RECTANGULAR ORIFICE
C-802 NOT TO SCALE



NOTES:
1. REFERENCE MNDOT STANDARD PLATE 3133D FOR RIPRAP DETAILS. ALL RIPRAP SHALL BE FIELDSTONE.
2. TRASH GUARD SHALL BE USED FOR 24" OR GREATER FLARED END.
3. ALL TRASH GUARDS SHALL BE GALVANIZED AFTER FABRICATION PER MNDOT SPEC. 3392 & 3394.
4. TIE LAST 3 PIPE JOINTS. USE 2 GALVANIZED TIE BOLT FASTENERS PER JOINT. INSTALL AT 60" FROM TOP TO BOTTOM OF PIPE.



TRASH GUARD FOR FLARED END SECTION

Steve L. Lehman
PUBLIC WORKS DIRECTOR/CITY ENGINEER

APPROVED: 02/2021

REVISED: 03/2020

DETAIL NO:
3006

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TOLL FREE 1-800-252-1166



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SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.STANTEC.COM

CLIENT:



QUALITY FORKLIFT
IMPROVEMENTS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE

ISSUE NO.:

DESCRIPTION:

DATE:

CERTIFICATION:

NOT FOR CONSTRUCTION

PROJECT NO.: 227705401

DWN BY: YMK CHK'D BY: BMB APP'D BY: JRA

ISSUE DATE: 06/01/2023

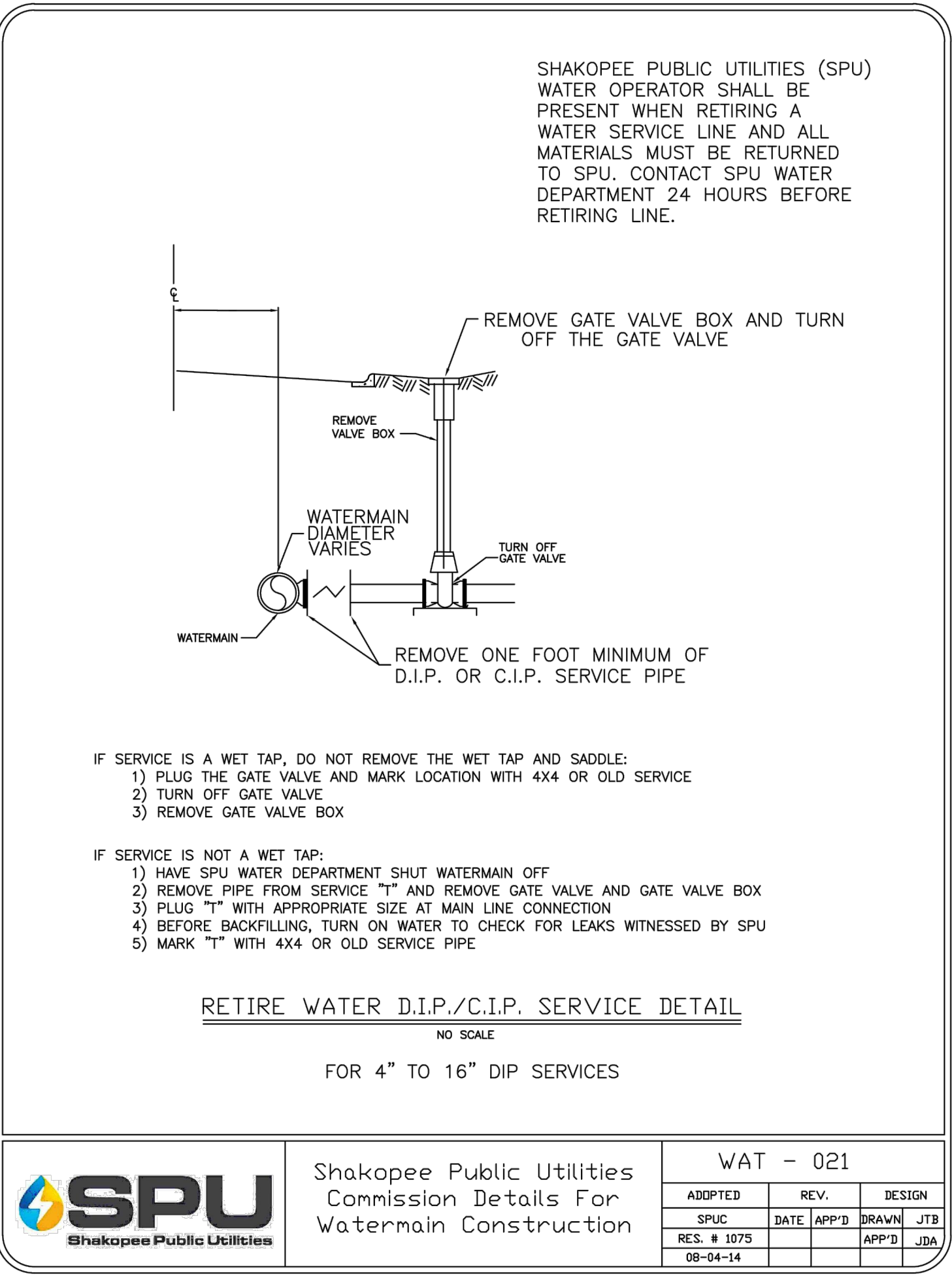
ISSUE NO.: 5

SHEET TITLE:

DETAILS

SHEET NO.:

C-802



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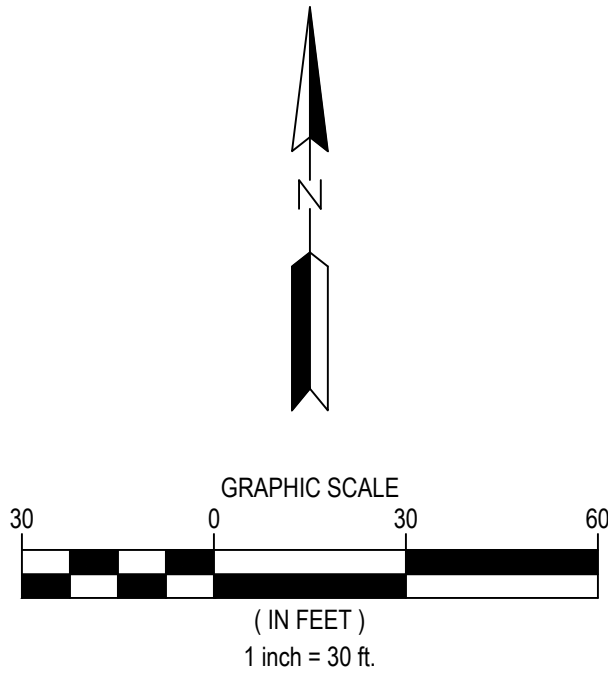
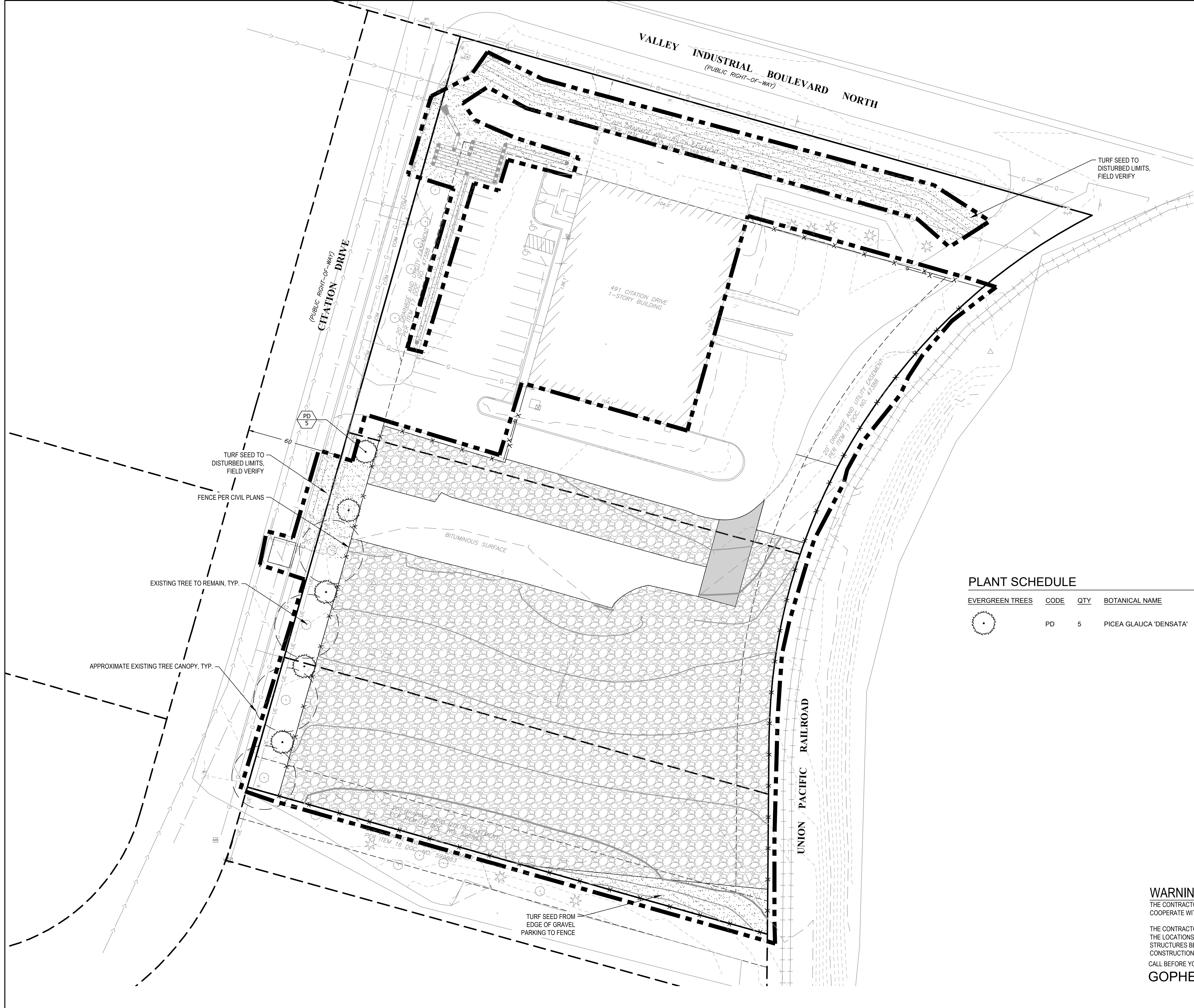
GOPHER STATE ONE CALL

TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166

 Stantec 7500 OLSON MEMORIAL HWY SUITE 300 GOLDEN VALLEY, MN 55427 PHONE: 763-252-6800 FAX: 952-831-1268 WWW.STANTEC.COM							
CLIENT:				 LSW ERVO Development Corporation			
PROJECT TITLE: QUALITY FORKLIFT IMPROVEMENTS CITY OF SHAKOPEE SCOTT COUNTY, MINNESOTA							
ISSUE NO.:							
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ISSUE DATE:				06/01/2023			
ISSUE NO.:				5			
SHEET TITLE:				DETAILS			
SHEET NO.:				C-803			

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U:\227705401\QUALITY FORKLIFT CRANE SITES DESIGN\PLANS\SHEETSL-101 LANDSCAPE PLAN.dwg



LEGEND

LOW MAINTENANCE TURF SEED
MNDOT SEED MIX 25-131 OR EQUAL

GENERAL NOTES

- SEE CIVIL ENGINEER'S PLANS FOR SITE PLAN LAYOUT AND DIMENSIONS
- SEE CIVIL ENGINEER'S PLANS FOR PROPOSED UTILITIES
- SEE SHEET L-801 FOR LANDSCAPE NOTES, DETAILS, AND SCHEDULES

TREE CALCULATIONS

- 24 EXISTING TREES LOCATED ON-SITE
- TOTAL TREES REMOVED: 11
- TOTAL TREES INSTALLED: 5
- TOTAL SITE NET TREE LOSS AFTER INSTALLATION: 25%

PLANT SCHEDULE

EVERGREEN TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	REMARKS
	PD	5	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE	B&B	6' HT.	

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CLIENT:

SWERVO
Development Corporation

QUALITY FORKLIFT
IMPROVEMENTS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE

ISSUE NO.:	DESCRIPTION:	DATE:
1	CLIENT SUBMITTAL	10/13/2023
2	CLIENT SUBMITTAL	11/02/2023
3	CLIENT SUBMITTAL	11/02/2023
4	CITY SUBMITTAL	05/16/2023
5	CITY RESUBMITTAL	06/01/2023

CERTIFICATION:
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

MARK:
DATE: _____

PROJECT NO.: 227705401

DWN BY: MSF CHK'D BY: JDR APP'D BY: JDR

ISSUE DATE: 06/01/2023

ISSUE NO.: 5

SHEET TITLE:
LANDSCAPE PLAN

SHEET NO.:
L-101

INSPECTION AND ACCEPTANCE

- LANDSCAPE WORK WILL BE INSPECTED FOR ACCEPTANCE IN PARTS AGREEABLE TO THE OWNER, PROVIDED WORK OFFERED FOR INSPECTION IS COMPLETE, INCLUDING MAINTENANCE, FOR THE PORTION IN QUESTION.
- AT THE CONCLUSION OF THE ESTABLISHMENT PERIOD, WHICH WILL BE ONE YEAR FOLLOWING INITIAL INSTALLATION A FINAL INSPECTION OF PLANTING WILL BE MADE TO DETERMINE THE CONDITIONS OF AREAS SPECIFIED FOR LANDSCAPING.
- WHEN INSPECTED LANDSCAPE WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL RE-INSPECTED BY OWNER AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS FROM SITE.

PLANTING NOTES

- UPON APPROVAL OF STAKING LOCATIONS CONTRACTOR SHALL EXCAVATE PLANTING HOLES CENTERED AT STAKED LOCATIONS.
- DIG HOLES AS DETAILED AND TO A DIAMETER A MINIMUM OF TWO TIMES THE DIAMETER OF THE ROOT BALL OR CONTAINER.
- REMOVE STICKS, RUBBISH, FOREIGN MATERIALS AND UNDESIRABLE PLANTS AND THEIR ROOTS. REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSIONS.
- SET BALLED AND BURLAPPED (B&B) STOCK ON LAYER OF COMPACTED PLANTING SOIL MIXTURE, PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF ALL AT SAME ELEVATION AS ADJACENT FINISHED LANDSCAPE GRADES.
- ROOT FLARE OF THE TREE MUST BE ABOVE FINISHED GRADE.
- CUT ALL CORDS AND TWIN AND REMOVE WIRE BASKET AND BURLAP FROM TOP AND SIDES OF BALLS; RETAIN BURLAP ON BOTTOMS.
- WHEN SET, PLACE ADDITIONAL PLANTING SOIL BACKFILL AROUND BASE AND SIDES OF BALL, AND WORK EACH LAYER TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS.
- WHEN EXCAVATION IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL.
- REPEAT WATERING UNTIL NO MORE IS ABSORBED. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
- FOR CONTAINER GROWN STOCK, SAME AS FOR BALLED AND BURLAPPED STOCK, EXCEPT CUT CONTAINERS ON SIDES INTO QUARTERS WITH SHEAR. REMOVE CONTAINER BEFORE SETTING PLANT SO AS NOT TO DAMAGE ROOT BALLS.
- WATER EACH PLANT WITHIN 2 HOURS OF PLANTING.
- ALL PLANTINGS TO BE MULCHED UNLESS OTHERWISE NOTED ON THE PLAN.
- PLACE 3-INCH THICKNESS OF MULCH AROUND TREES WITHIN A PERIOD OF 48 HOURS AFTER THE SECOND WATERING. DO NOT PLACE MULCH IN DIRECT CONTACT WITH TRUNKS OR STEMS.
- PLACE 3-INCH THICKNESS LOCALLY AVAILABLE DOUBLE SHRED HARD WOOD MULCH AROUND ALL TREES.

MAINTENANCE NOTES

- WHEN INSPECTED LANDSCAPE WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL RE-INSPECTED BY OWNER AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS FROM SITE.
- BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING.
- MAINTAIN TREES AND BUSHES INCLUDING WATERING FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. IT IS CONTRACTORS RESPONSIBILITY FOR COORDINATE WATERING.
- TRIM, PRUNE, REMOVE CLIPPINGS AND DEAD OR BROKEN BRANCHES, AND TREAT PRUNED AREAS AND OTHER WOUNDS.
- IT IS THE CONTRACTOR'S OPTION WHETHER OR NOT TO STAKE TREES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TREES IN AN UPRIGHT POSITION THROUGHOUT THE ONE-YEAR GUARANTEE PERIOD.

GUARANTEE AND REPLACEMENTS

- PLANT MATERIAL SHALL BE GUARANTEED FOR ONE FULL YEAR AFTER OWNER ACCEPTANCE AND SHALL BE ALIVE AND IN SATISFACTORY CONDITION AT THE END OF THE GUARANTEE PERIOD. SUCH GUARANTEE EXCLUDES VANDALISM.
- AT THE END OF THE ONE-YEAR GUARANTEE PERIOD, INSPECTION WILL BE MADE BY THE OWNER UPON WRITTEN NOTICE BY THE CONTRACTOR AT LEAST FIVE DAYS BEFORE THE ANTICIPATED DATE. ANY PLANT MATERIAL REQUIRED UNDER THE CONTRACT THAT IS DEAD OR NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE OWNER, SHALL BE REMOVED FROM THE SITE, AND SHALL BE REPLACED AS SOON AS CONDITIONS PERMIT DURING THE NORMAL PLANTING SEASONS.
- THE OPINION OF THE OWNER SHALL GOVERN IN ANY AND ALL DISPUTES BY THE CONTRACTOR REGARDING THE CONDITION AND DISPOSITION OF UNSATISFACTORY MAINTENANCE PROCEDURES OR REJECTED PLANTS.
- ALL REPLACEMENTS SHALL BE PLANT MATERIAL OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. REPLACEMENT COSTS SHALL BE BORNE BY THE CONTRACTOR.
- REPLACEMENT PLANTINGS REQUIRED AT THE END OF THE GUARANTEE PERIOD ARE NOT TO BE GUARANTEED. THE PLANT MATERIAL IS SUBJECT TO INSPECTION AND REJECTION BY THE OWNER BEFORE AND AFTER PLANTING.

LANDSCAPE NOTES

- TREES SHALL BE PROVIDED IN THE QUANTITY, SIZE, GENUS, SPECIES, AND VARIETY AS CHOSEN BY THE OWNER/OWNER AS LISTED ON THE PLANT SCHEDULE ON L-801.
- TREES SHALL BE HEALTHY, VIGOROUS STOCK, GROWN IN RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE AND FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS.
- OWNER RETAINS THE RIGHT TO INSPECT TREES AND SHRUBS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEMS, INSECTS, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK.
- NURSERY STOCK SHALL BE DELIVERED DIRECTLY FROM NURSERY. HEEL IN IMMEDIATELY UPON DELIVERY IF NOT TO BE PLANTED WITHIN FOUR HOURS, COVERING WITH MOIST SOIL OR MULCH TO PROTECT FROM DRYING. STORE PLANTS IN SHADE AND PROTECT FROM WEATHER.
- PROTECTION FROM EXTREMES IN EXPOSURE AND ROUGH HANDLING SHALL BE PROVIDED FOR ALL PLANT MATERIALS DURING TRANSPORT AND STORAGE.
- THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO PLANTING SO THAT A MUTUALLY AGREEABLE TIME MAY BE ARRANGED FOR INSPECTION.
- LAY OUT INDIVIDUAL TREE LOCATIONS WITH STAKES CENTERED AT PROPOSED PLANTING LOCATIONS FOR APPROVAL BY OWNER.
- DO NOT START PLANTING WORK UNTIL LAYOUT IS APPROVED BY THE OWNER.
- TO ENSURE PROPER INFILTRATION THE LANDSCAPE CONTRACTOR MUST PROVE THE OPEN SUB-GRADE OF ALL PLANTING AREAS AFTER THEIR EXCAVATION IS COMPACTED LESS THAN 200 PSI. THE OWNER OR OWNER'S REPRESENTATIVE MUST BE ONSITE DURING COMPACTION TESTING.
- ALL GRADED AREAS OF THE SITE THAT ARE DESIGNATED FOR TREES SHALL HAVE NO LESS THAN 12" OF IMPORTED TOPSOIL CONFORMING TO MNDOT SPEC 3877.2B LOAM TOPSOIL BORROW.

TURF RESTORATION NOTES

- THE ESTABLISHMENT PERIOD FOR SEED SHALL BEGIN IMMEDIATELY AFTER INSTALLATION, WITH THE APPROVAL OF THE OWNER, AND CONTINUE UNTIL THE DATE THAT THE OWNER PERFORMS A FINAL INSPECTION.
- FERTILIZER SHALL CONFORM TO MNDOT SPEC. 3881, TYPE 2 PHOSPHOROUS-FREE.
- FERTILIZER SHALL HAVE A FORMULA (N-P-K) AS DETERMINED BY THE RESULTS OF A SOIL TEST.
- CONTRACTOR TO CONDUCT SOIL TEST AND PROVIDE RESULTS ALONG WITH RECOMMENDED FERTILIZER FORMULA TO OWNER FOR REVIEW AND APPROVAL PRIOR TO APPLICATION.
- TOPSOIL SHALL BE IMPORTED AND CONFORM TO MNDOT SPEC. 3877.2B LOAM TOPSOIL BORROW.
- 6" OF TOP SOIL SHALL BE PLACED IN ALL SEED AREAS. SEE LANDSCAPE NOTES FOR PLANTING AREAS.
- INSTALLATION OF SEED SHALL OCCUR WITHIN ONE (1) WEEK OF COMPLETING THE GRADING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR WATER DURING THE PLANTING ESTABLISHMENT PERIOD.

IRRIGATION

- THE IRRIGATION SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
- IRRIGATION CONTRACTOR TO FIELD VERIFY EXISTING IRRIGATION SYSTEM AND ITS FUNCTIONALITY.
 - IRRIGATION CONTRACTOR TO BE PRESENT ON-SITE AT TIME OF SITE DEMOLITION TO CONFIRM AND FLAG LOCATIONS OF ACTIVE CONTROL WIRES AND WATER SUPPLY LINES.
 - IRRIGATION CONTRACTOR SHALL FACILITATE IDENTIFICATION AND MARKING OF WIRES TO BE REMOVED AND THOSE TO REMAIN DURING DEMOLITION.
 - IRRIGATION CONTRACTOR RESPONSIBLE FOR WATERING ANY EXISTING ZONES DURING PERIODS OF INTERRUPTION.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO EXISTING IRRIGATION ZONES.
 - COORDINATION WITH ALL OTHER TRADES.
 - DETAILED DESIGN OF AN IRRIGATION SYSTEM FOR THE SITE. DESIGN SHALL INCLUDE PIPE SIZING, HEAD SELECTION, LOCATIONS OF HEADS, ZONING, AND CONTROL SYSTEMS. DESIGN SHALL PROVIDE NO OVERSPRAY ONTO WALKS. IRRIGATION PLAN, DESIGN DETAILS AND PRODUCT SHEETS SHALL BE SUBMITTED TO THE ENGINEER AND OWNER FOR REVIEW AND APPROVAL PRIOR TO PURCHASING ANY MATERIALS.
 - LABOR AND MATERIALS NECESSARY TO INSTALL A NEW IRRIGATION SYSTEM. THE IRRIGATION CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE IRRIGATION CONTROL SYSTEM ALONG WITH ANY CONNECTIONS MADE TO THE WATER SERVICE.
 - TESTING OF THE COMPLETE IRRIGATION SYSTEM.
 - STARTUP AND ADJUSTMENT OF THE SYSTEM.
 - PROVIDE OWNER'S EMPLOYEES WITH OPERATIONAL TRAINING ONSITE AND SUBMIT OPERATION AND MAINTENANCE MANUALS FOR ALL COMPONENTS.
 - AS-BUILT DRAWINGS SHOWING THE LOCATION AND FEATURES OF ALL IRRIGATION COMPONENTS.
 - IF NO FUNCTIONING IRRIGATION SYSTEM IS PRESENT, IRRIGATION CONTRACTOR IS TO PROVIDE: DETAILED DESIGN OF AN IRRIGATION SYSTEM TO INCLUDE ALL TURF SOO AREAS. DESIGN SHALL INCLUDE PIPE SIZING, HEAD SELECTION, LOCATIONS OF HEADS, ZONING, AND CONTROL SYSTEMS. DESIGN SHALL PROVIDE NO OVERSPRAY ONTO WALKS. IRRIGATION PLAN, DESIGN DETAILS AND PRODUCT SHEETS SHALL BE SUBMITTED TO THE ENGINEER AND OWNER FOR REVIEW AND APPROVAL PRIOR TO PURCHASING ANY MATERIALS.
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 - AS-BUILT DRAWINGS SHOWING THE LOCATION AND FEATURES OF ALL IRRIGATION COMPONENTS.

CODES AND INSPECTION

- THE ENTIRE INSTALLATION SHALL FULLY COMPLY WITH ALL LOCAL AND STATE LAWS AND ORDINANCES AND WITH THE ESTABLISHED CODES ALLOCABLE THERETO.
- THE CONTRACTOR SHALL TAKE OUT ALL REQUIRED PERMITS, ARRANGE FOR ALL NECESSARY INSPECTION, AND PAY ANY FEES AND EXPENSES IN CONJUNCTION WITH THE SAME AS PART OF THE WORK UNDER THIS CONTRACT.

QUALITY ASSURANCE

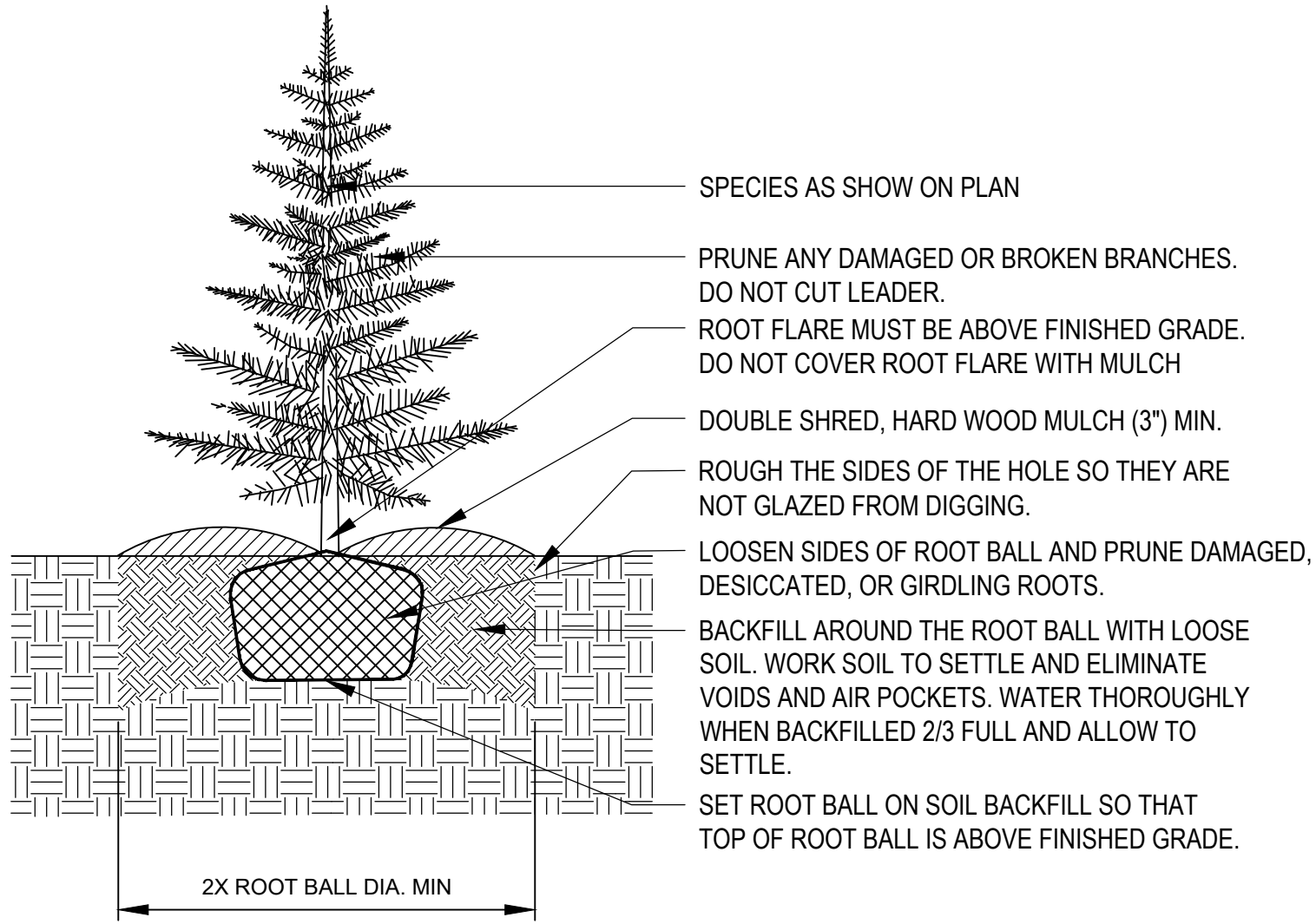
- ALL WORK AND MATERIALS TO BE IN FULL ACCORDANCE WITH LATEST RULES AND REGULATIONS OF THE DIVISION OF INDUSTRIAL SAFETY, THE UNIFORM PLUMBING CODE, NATIONAL ELECTRIC CODE, AMERICANS WITH DISABILITIES, AND OTHER APPLICABLE LAWS OR REGULATION.
- NOTHING IN THESE DRAWINGS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
- FURNISH, WITHOUT EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR AS REQUIRED TO COMPLY WITH THESE RULES AND REGULATIONS, THOUGH THE WORK IS NOT MENTIONED IN THESE PARTICULAR CONSTRUCTION DOCUMENTS.

PROTECTION OF EXISTING CONDITIONS

- BECOME ACQUAINTED WITH ALL SITE CONDITIONS. LOCATE EXISTING UTILITIES AND EQUIPMENT TO REMAIN. SHOULD UTILITIES OR OTHER WORK NOT SHOWN ON THE DRAWINGS BE FOUND DURING EXCAVATIONS, PROMPTLY NOTIFY ENGINEER. FAILURE TO DO SO WILL MAKE CONTRACTOR LIABLE FOR ANY AND ALL DAMAGE ARISING FROM OPERATIONS SUBSEQUENT TO DISCOVERY OF SUCH UTILITIES NOT SHOWN ON DRAWINGS.
- TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING SITE CONDITIONS. REPAIR ANY DAMAGED ITEM TO ITS ORIGINAL CONDITION OR FURNISH AND INSTALL EQUIVALENT REPLACEMENT AT NO ADDITIONAL COST TO OWNER.

COORDINATION

- SCHEDULE AND COORDINATE WORK WITH OTHER TRADES TO FACILITATE WORK AND AVOID CONFLICTS IN CONSTRUCTION SEQUENCE AND EQUIPMENT INSTALLATION.
- REVIEW ENTIRE PLAN SET AND COORDINATE WITH OTHER TRADES AS REQUIRED BY SEQUENCE OF CONSTRUCTION TO ENSURE PROVISION OF MAINLINE AND ELECTRICAL CONDUIT STUB-OUTS AT ALL REQUIRED LOCATIONS.



1 CONIFEROUS TREE PLANTING
L-801 NOT TO SCALE

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GOPHER STATE ONE CALL

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TOLL FREE 1-800-252-1166



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FAX: 952-831-1268
WWW.STANTEC.COM

CLIENT:



QUALITY FORKLIFT
IMPROVEMENTS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE

ISSUE NO.:

1	2	3	4	5					
DESCRIPTION:	CLIENT SUBMITTAL	CLIENT SUBMITTAL	CLIENT SUBMITTAL	CITY SUBMITTAL	CITY RESUBMITTAL				
DATE:	10/13/2023	10/20/2023	11/02/2023	05/16/2023	06/01/2023				

CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

MARK: _____

ISSUE NO.: _____

DATE: _____

PROJECT NO.: 227705401

DWN BY: MSF CHK'D BY: JDR APP'D BY: JDR

ISSUE DATE: 06/01/2023

ISSUE NO.: 5

SHEET TITLE:

LANDSCAPE DETAILS

SHEET NO.:

L-801