4/25/2024 1:09:29 PM

PRELIMINARY SITE PLANS

FOR

HIGH STAKES SHELL

BUILDING SHELL / PROPERTY ADDRESS: 2941 WINNERS CIRCLE DRIVE, SHAKOPEE, MINNESOTA 55379

APRIL 2024

Submit turning movement plan sheet for Shakopee Commander Fire Truck

THIS PLANSET CONTAINS 34 SHEETS

ENGINEER

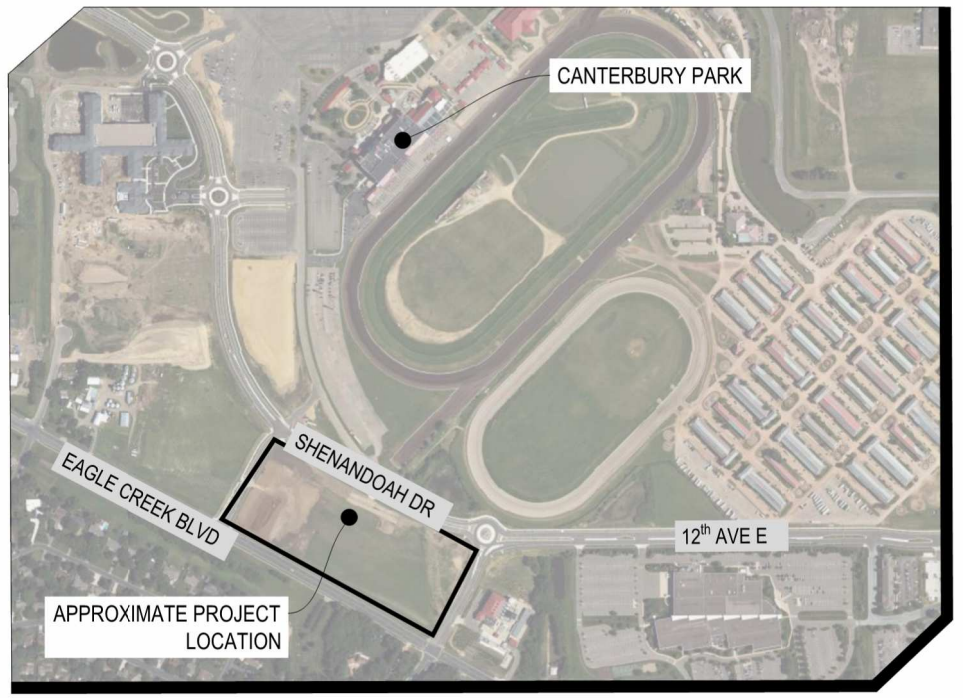
Stantec

STANTEC CONSULTING SERVICES, INC.
1 CARLSON PARKWAY NORTH, SUITE 100
PLYMOUTH, MN 55447
(E) - CLARK.LOHR@STANTEC.COM
CONTACT: CLARK LOHR

TUSHIE MONTGOMERY ARCHITECTS

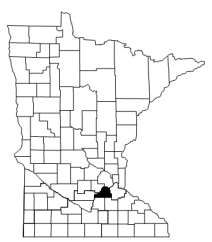
ARCHITECT

TUSHIE MONTGOMERY ARCHITECTS
(P) - 612.389.9489
(E) - EVANJ@TMIARCHITECTS.COM
CONTACT: EVAN JACOBSEN, AIA | PRINCIPAL



VICINITY MAP
NOT TO SCALE





PROJECT LOCATION
CITY: SHAKOPEE
COUNTY: SCOTT
PARCEL TAX ID: 275230020

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
G-001	COVER SHEET
G-002	GENERAL NOTES
G-003	GENERAL NOTES
C-001	EXISTING CONDITIONS
C-002	REMOVAL PLAN
C-003	PRECONSTRUCTION EROSION CONTROL PLAN
C-100	OVERALL SITE PLAN
C-101	SITE PLAN
C-201	POST-CONSTRUCTION STABILIZATION PLAN
C-202	SWPPP
C-301	GRADING
C-401	UTILITY
C-501	STORM SEWER
C-801	DETAILS
C-802	DETAILS
C-803	DETAILS
C-804	DETAILS
C-805	DETAILS
C-806	DETAILS
C-807	DETAILS
C-808	DETAILS
C-809	DETAILS
C-810	DETAILS
C-811	DETAILS
C-812	DETAILS
C-813	DETAILS
C-814	DETAILS
C-815	DETAILS
C-816	DETAILS
C-817	DETAILS
C-818	DETAILS
C-819	DETAILS
L-101	LANDSCAPE PLAN
L-102	LANDSCAPE DETAILS

SUPPLEMENTAL DRAWINGS AND EXHIBITS

1	CERTIFICATE OF SURVEY

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

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:
2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
888-742-6837
GreystoneConstruction.com
GREYSTONE CONSTRUCTION

PROJECT TITLE: HIGH STAKES SHELL
2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NOT FOR CONSTRUCTION

Michael J. Jaff
LICENSE NO.: 55470
DATE: 04/25/2024

PROJECT NO.: 193806452

DWN BY:	CHK'D BY:	APP'D BY:
MJJ	CDL	CDL

ISSUE DATE: 04/25/2024
ISSUE NO.: 1
SHEET TITLE: COVER SHEET
SHEET NO.: G-001

\\at0242-vpfs01\shared_proj\ec\193806452\LDev\5_DESIGN\1_CAD\3 PLANSHEETS\G-001 COVER SHEET 06452.dwg

GOVERNING SPECIFICATIONS

1. CITY OF SHAKOPEE 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. UNTIL 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 WENCK, NOW A PART OF STANTEC, DATED MAY 2021. 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 CI/ASCE 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).
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 MCPA 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 ONSITE. 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.

TREE PRESERVATION NOTES

1. CONTRACTOR SHALL PROTECT EXISTING TREES THAT ARE NOT TO BE REMOVED. INSTALL ORANGE MESH FENCING, 4 FEET HIGH, WITH STAKES EVERY 10 FEET, 5 FEET OUTSIDE OF THE DRIP LINE OF PRESERVED TREES, OR AT THE CONSTRUCTION LIMITS. DO NOT PERFORM ACTIONS WITHIN THE PROTECTED 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. TREE PROTECTION MEASURES/FENCING MUST BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION AND MUST BE REVIEWED BY OWNER AND ENGINEER BEFORE STARTING CONSTRUCTION.
3. 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.

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. CLEARING AND GRUBBING OPERATIONS MUST COMPLY WITH THE FOLLOWING:
11.1.PROTECT ALL TREES AND PLANTS NOT DESIGNATED FOR REMOVAL.
11.2.CONDUCT OPERATIONS IN SUCH A MANNER THAT DOES NOT DAMAGE PROTECTED TREES AND VEGETATION.
11.3.CUT, REMOVE, AND DISPOSE OF TREES, BRUSH, SHRUBS, WINDFALLS, LOGS, STUMPS, ROOTS, FALLEN TIMBER, AND OTHER VEGETATION.
11.4.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.
11.5.DISPOSE OF DEBRIS IN ACCORDANCE WITH APPLICABLE REGULATIONS.
11.6.CONSIDER BENEFICIAL USE DESIGNATIONS FOR UNADULTERATED WOOD, WOOD CHIPS, BARK AND SAWDUST.
11.7.NO BURYING OF CLEARED AND GRUBBED WASTE WITHIN THE CONSTRUCTION LIMITS.
12. 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.

TRAFFIC CONTROL NOTES

1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
2. CONTRACTOR SHALL COORDINATE CONSTRUCTION STAGING, ON OR OFFSITE, AS NECESSARY TO COMPLETE THE WORK. IF OFFSITE STAGING AREA IS REQUIRED, CONTRACTOR IS RESPONSIBLE TO FIND, OBTAIN, AND PAY FOR NECESSARY STAGING AREA AT NO ADDITIONAL COST TO THE OWNER. SUBMIT A STAGING PLAN TO THE ENGINEER FOR REVIEW BEFORE STARTING WORK.
3. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL AND DETOURS. TRAFFIC CONTROL AND DETOURS MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MN MUTCD, INCLUDING LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS. SUBMIT TRAFFIC CONTROL PLAN AND DETOUR PLAN TO CITY, COUNTY, MNDOT AND ENGINEER FOR REVIEW BEFORE CONSTRUCTION RELATED ACTIVITIES. PLANS MUST COMPLY WITH APPLICABLE PERMIT REQUIREMENTS. TRAFFIC CONTROL INCLUDES NECESSARY SIGNAGE AND MARKINGS FOR SIDEWALKS, TRAILS, BOARDWALKS, ETC. CLOSURE. THIS MUST INCLUDE ADVANCED WARNING SIGNS AND NECESSARY FENCING AND SIGNAGE TO PREVENT PEDESTRIANS FROM ACCESSING THE PROPOSED AREA.
4. CONTRACTOR MUST SCHEDULE WORK IMPACTING SUZANNE'S WAY WITH THE OWNER AND ENGINEER. CLOSURES OR DETOURS MUST BE APPROVED BY OWNER PRIOR TO STARTING WORK.
5. CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC ON SUZANNE'S WAY AT ALL TIMES, OR AS APPROVED BY OWNER.

SITE NOTES

1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
2. REFER TO THE ARCHITECTURAL, STRUCTURAL, AND MEP PLANS FOR EXACT LOCATIONS OF AND DIMENSIONS OF BUILDINGS, VESTIBULES, STOOPS, OVERHANGS, COLUMNS, RAMPS, SIDEWALKS, TRASH ENCLOSURES, TRAFFIC GATES, MONUMENT SIGNS, SITE LIGHTING, EXTERIOR ELECTRICAL, BACKFLOW PREVENTORS AND BUILDING UTILITY ENTRANCE LOCATIONS.
3. BUILDING LINES SHOWN ARE APPROXIMATE OUTSIDE LINES OF BUILDINGS AT GRADE, MAY NOT ACCOUNT FOR EXTRUSIONS (I.E. BALCONIES, OVERHANGS, LIGHTING, ETC.) ABOVE GRADE, AND ARE BASED ON SURVEYED INFORMATION.
4. CONTRACTOR AND SURVEYOR SHALL FIELD VERIFY THE BUILDING FOOTPRINT/OUTLINE AND OUTER MOST EXTRUSIONS PRIOR TO CONSTRUCTION TO REVIEW POTENTIAL CONFLICTS WITH ADJACENT WORK, EXISTING SITE FEATURES, PROPERTY LINES, SETBACKS, ETC.
5. DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

HORIZONTAL AND VERTICAL CONTROL NOTES

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

TYPICAL OWNER / ENGINEER OBSERVATIONS

1. CONTRACTOR MUST NOTIFY OWNER, ENGINEER, AND CITY IN WRITING A MINIMUM OF 72 HOURS IN ADVANCE OF THE FOLLOWING ACTIVITIES FOR ATTENDANCE AND OBSERVATION:
1.1.PRE-CONSTRUCTION MEETING
1.2.UNDERGROUND PIPING AND UTILITIES INSTALLATION
1.3.UTILITY TESTING
1.4.STRUCTURES AND APPURTENANCES INSTALLATION
1.5.SUBGRADE PREPARATION
1.6.BASE INSTALLATION
1.7.CURB INSTALLATION
1.8.PAVEMENT INSTALLATION

TEST REPORTS REQUIRED

1. COPIES OF COMPACTION, CONCRETE, AND OTHER TEST RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE INDEPENDENT TESTING LABORATORY.
2. GEOTECHNICAL/CONCRETE TESTING MUST BE COMPLETED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER/INDEPENDENT TESTING LABORATORY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED GEOTECHNICAL TESTS AND INSPECTIONS WITH THE GEOTECHNICAL ENGINEER/INDEPENDENT TESTING LABORATORY.
3. TEST REPORTS REQUIRED MAY INCLUDE, BUT NECESSARILY LIMITED TO:
3.1. DENSITY TESTS OF SOIL AND PAVEMENT COMPACTION
3.2. CONCRETE COMPRESSION, AIR, AND SLUMP TESTS
3.3. BACTERIOLOGICAL TESTS OF WATER SYSTEM
3.4. MANDREL TESTS OF SANITARY AND STORM SYSTEM
3.5. PRESSURE/LEAK TESTS OF WATER/SANITARY/STORM SYSTEM
3.6. OTHER TESTING REQUIRED BY AGENCY/MUNICIPALITY HAVING JURISDICTION
4. RE-WORK/RE-TESTING DUE TO FIELD TEST FAILURE ARE AT NO ADDITIONAL COST TO THE OWNER.

PAVING, PAVEMENT MARKING, AND SIGNAGE NOTES

1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
2. CONTRACTOR SHALL MAINTAIN STREET AND TRAFFIC SIGNS AT ALL TIMES DURING CONSTRUCTION.
3. SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES MUST BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CITY STANDARDS.
4. THE PAVEMENT SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE CITY OR ENGINEER, AND JUST PRIOR TO APPLICATION OF PAVEMENT MARKINGS. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE CITY. (INCIDENTAL)
5. THE PAVEMENT MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING.
6. PAVEMENT MARKING EDGE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS AND PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY A YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES.
7. THE CONTRACTOR SHALL HAVE A MINIMUM OF 2 PEOPLE WITH CURRENT ACI CONCRETE FLATWORK TECHNICIAN OR FLATWORK FINISHER CERTIFICATION, AND AT LEAST ONE OF THEM MUST BE ONSITE FOR ALL CONCRETE POURS.
8. PROTECT CONCRETE PAVING FROM DAMAGE. EXCLUDE TRAFFIC FROM PAVING FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT. WHEN CONSTRUCTION TRAFFIC IS PERMITTED, MAINTAIN PAVING AS CLEAN AS POSSIBLE BY REMOVING SURFACE STAINS AND SPILLAGE OF MATERIALS AS THEY OCCUR. MAINTAIN CONCRETE FREE OF STAINS, DISCOLORATION, DIRT, AND OTHER FOREIGN MATERIALS. SWEEP PAVING NOT MORE THAN TWO DATES BEFORE DATE SCHEDULED FOR SUBSTANTIAL COMPLETION INSPECTIONS. REPAIR OR REPLACE STAINED CONCRETE TO THE SATISFACTION OF THE OWNER AT NO COST TO THE OWNER.
9. CONSTRUCTION AND MATERIALS WITHIN PUBLIC RIGHT-OF-WAY MUST BE IN ACCORDANCE WITH CITY SPECIFICATIONS AND STANDARDS. MN/DOT SPECIFICATIONS AND STANDARDS APPLY IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS. PAVING, PAVEMENT MARKINGS, AND SIGNAGE WITHIN THE SITE SHALL MEET THE FOLLOWING REQUIREMENTS:
9.1. BITUMINOUS: CONFORM TO MN/DOT SPEC 2360
9.1.1. WEARING COURSE MIX DESIGN: MN/DOT MIX SPWEA340B (10% MAX RAP, NO RAS ALLOWED)
9.1.2. NON-WEARING COURSE MIX DESIGN: MN/DOT MIX SPNWB330B (20% MAX RAP)
9.1.3. TACK COAT: MN/DOT SPEC 2357, EMULSIFIED ASPHALT, CATIONIC, CSS-1 OR CSS-1H
9.2. MAXIMUM ALLOWABLE BITUMINOUS LIFT THICKNESS SHALL NOT EXCEED 3 INCHES FOR WEARING COURSE OR 3 INCHES FOR NON-WEARING COURSE.
9.3. PLACE TACK COAT BETWEEN EACH LIFT AT A RATE OF 0.05 GALLONS PER SQUARE YARD.
10. CONCRETE SIDEWALK/DRIVEWAYS/SLABS MATERIALS: CONFORM TO MN/DOT SPEC 2461
10.1.MANUAL PLACEMENT MIX DESIGN: MN/DOT MIX 3F52A
10.2.FLY ASH: CLASS F
10.3.CONCRETE CURB AND GUTTER MATERIALS: CONFORM TO MN/DOT SPEC 2461
10.3.1. MANUAL PLACEMENT: MN/DOT MIX 3F52
10.3.2. SLIP FORM PLACEMENT: MN/DOT MIX 3F32
10.4.CONCRETE ISOLATION/EXPANSION JOINT MATERIAL: MN/DOT SPEC 3702, TYPE D-1 OR D-2 FROM MN/DOT'S APPROVED PRODUCTS LIST. PROVIDE CAULKING/JOINT SEALANT AND BACKER ROD AS RECOMMENDED BY JOINT MANUFACTURER.
10.5.CONCRETE CURING MATERIALS: CONFORM TO MN/DOT SPECS 3754
10.5.1. SILANE/SILOXANE CONCRETE SEALER: SEALER SHALL BE SILOXA-TEK 8500, OKON S40, ARMOR SX5000, OR APPROVED EQUAL.
10.5.2. SHALL BE APPLIED PER MANUFACTUER INSTRUCTIONS.
10.5.2.1. SHALL BE APPLIED ON A CLEAN, DRY, AND ABSORBENT SURFACE THAT HAS BEEN CURED FOR AT LEAST 28 DAYS PRIOR TO APPLICATION.
10.5.2.2. SHALL BE APPLIED TO A SURFACE THAT IS ABOVE 40 DEGREES FAHRENHEIT AND WILL NOT FREEZE FOR AT LEAST 24 HOURS.
10.5.2.3. APPLICATION RATE SHALL BE MONITORED AND BE GREATER THAN MANUFACTURERS RECOMMENDATIONS.
10.6.CONCRETE PLACING, FINISHING, CURING, AND PROTECTION: CONFORM TO MN/DOT SPECS 2461, 2521, AND 2531, AND APPLICABLE ACI STANDARDS.
10.6.1. FOR HOT WEATHER PLACEMENT, COMPLY WITH ACI 305 HOT WEATHER CONCRETING.
10.6.2. FOR COLD WEATHER PLACEMENT, COMPLY WITH ACI 306 COLD WEATHER CONCRETING. DO NOT PLACE CONCRETE IN AIR TEMPERATURE LESS THAN 40 DEGREES F WITHOUT APPROVAL OF THE ENGINEER.
10.6.3. PRIOR TO POURING ANY EXTERIOR CONCRETE FLATWORK/SLAB, CONTRACTOR MUST VERIFY THE PREDICTED COMBINATION OF AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE AND WIND VELOCITY WILL NOT EXCEED AN EVAPORATION RATE OF 0.20 POUNDS PER SQUARE FOOT OF SURFACE AREA PER HOUR IN ACCORDANCE WITH MN/DOT SPEC 2401, FIGURE 2401-1. THE WEATHER MUST ALSO BE LESS THAN 30% CHANCE OF PRECIPITATION FOR THE ENTIRE PLACEMENT WINDOW, AND 2 HOURS FOLLOWING EXPECTED COMPLETION. IF EITHER OF THESE CONDITIONS ARE NOT MET, THE POUR MUST BE POSTPONED UNTIL IT CAN MEET THESE REQUIREMENTS.
10.6.4. INSTALLATION FORM: CONTRACTOR OR INDEPENDENT TESTING AGENCY IS REQUIRED TO FILL OUT AND SUBMIT THE ENGINEER'S EXTERIOR CONCRETE INSTALLATION FORM AT THE END OF THE DAY OF EACH POUR. CONTACT THE ENGINEER TO OBTAIN THE FORM.
10.6.5. APPLY CURING COMPOUND AT A MINIMUM RATE OF 1 GALLON PER 150 SQ FT SURFACE CURING AREA OR MANUFACTURER RECOMMENDED APPLICATION RATE, WHICHEVER IS GREATER.
10.6.6. CONSTRUCT TEMPORARY WIND BREAKS AS NECESSARY TO REDUCE WIND VELOCITY/DRYING/EXPOSURE.
10.6.7. CONSTRUCT TEMPORARY SUNSHADES AS NECESSARY TO REDUCE CONCRETE TEMPERATURES/EXPOSURE.
10.6.8. CONTRACTOR SHALL PROTECT ALL CONCRETE SLABS THROUGHOUT CONSTRUCTION FROM HEAVY EQUIPMENT, VIBRATIONS, ADJACENT WORK, ETC. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONCRETE DAMAGED DURING CONSTRUCTION AND SHALL REPLACE AT NO ADDITIONAL COST TO THE OWNER.
10.7. AGGREGATE BASE: MN/DOT SPEC 3138, CLASS 5 AGGREGATE BASE, 100% CRUSHED VIRGIN AGGREGATE
11. PAVEMENT MARKINGS: MN/DOT SPECS 2582
11.1.PAVEMENT STRIPES: MN/DOT SPEC 3591 (WATER-BASED TRAFFIC PAINT) WITH DROP ON GLASS BEADS IN ACCORDANCE WITH MN/DOT SPEC 3592.
11.2.PRIOR TO APPLYING PAVEMENT MARKINGS, ALLOW NEW PAVEMENT TO CURE A MINIMUM OF 14 DAYS (OR FOLLOW MANUFACTURER'S SPECIFICATION FOR PAVEMENT CURE TIME, WHICHEVER IS GREATER).
12. SIGNAGE: CONFORM TO MN/DOT SPECS 2564, 3352 (SIGNS, DELINEATORS, AND MARKERS), AND 3402 (SQUARE TUBULAR SIGN POSTS). ALL SIGNS/POSTS SHALL MEET CRASHWORTHY REQUIREMENTS OF MASH-16.
12.1.SIGNS SHALL INCLUDE NUMBER AND SIZE OF POSTS IN ACCORDANCE WITH MN/DOT WIND LOADING CHART FOR SIGNS ON SQUARE TUBE POSTS.
12.2.MOUNT SIGNS IN ACCORDANCE WITH SQUARE TUBE SIGN MOUNTING MN/DOT STANDARD PLANS AND DETAIL SHEETS.
12.3.SEE MN/DOT STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE "C" AND TYPE "D" SIGNS PANELS.
12.4.SEE MN/DOT MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PART II FOR DETAILS OF TRAFFIC SIGN INSTALLATION.
12.5.MINIMUM VERTICAL CLEARANCE IS 7 FOOT. SEE MMUTCD FOR DETAILS.
13. CONTRACTOR SHALL PROVIDE CONCRETE JOINTS AS FOLLOWS:
13.1.CONTROL JOINTS - MAINTAIN AN ASPECT RATIO (LENGTH TO WIDTH) BETWEEN CONTROL JOINTS AS CLOSE TO 1:1 AS FEASIBLE. DO NOT EXCEED ASPECT RATIO GREATER THAN 1.5:1. MATCH EXISTING PATTERN WHERE APPLICABLE. MAXIMUM CONTROL JOINT SPACING SHALL BE 24 TIMES THE SLAB THICKNESS UP TO A MAXIMUM OF 12 FEET (I.E. 4-INCH-THICK SLAB = 96 INCH (8 FOOT) MAXIMUM CONTROL JOINT SPACING IN ANY DIRECTION, 8-INCH-THICK SLAB IS 12 FEET)
13.1.1. JOINT INTERSECTION ANGLES LESS THAN 60 DEGREES WILL NOT BE ALLOWED
13.1.2. PANEL WIDTHS LESS THAN 6 INCHES AT ANY POINT WILL NOT BE ALLOWED
13.1.3. JOINTING MUST ACCOMMODATE IN-PAVEMENT STRUCTURES THROUGH JOINTING AND BOXOUTS
13.1.4. CONTRACTOR MUST SUBMIT A JOINTING PLAN FOR ENGINEER ACCEPTANCE.
13.2.EXPANSION/ISOLATION JOINTS - PROVIDE AT THE FOLLOWING:
13.2.1. LOCATIONS WHERE ABRUPT CHANGES IN DIRECTION OCCUR
13.2.2. LOCATIONS WHERE CHANGES IN WIDTH OCCUR
13.2.3. LOCATIONS WHERE ADJOINING EXISTING CONCRETE
13.2.4. LOCATIONS THAT ABUT THE BUILDING AND OTHER SITE FEATURES INCLUDING RAMPS, STAIRS, LANDINGS, CONCRETE APRONS, ARCHITECTURAL AND LANDSCAPE FEATURES, ETC.
13.2.5. LOCATIONS IN CHANGES IN DEPTH (INCLUDING PAVEMENT ADJACENT TO CURB).
13.3.WHEREVER POSSIBLE MATCH JOINTS OF ADJACENT CONCRETE WORK.

PAVING, PAVEMENT MARKING, AND SIGNAGE NOTES (CONT.)

14. FIELD QUALITY CONTROL:
14.1.TEST ROLL SUBGRADE AND AGGREGATE BASE IN ACCORDANCE WITH MN/DOT SPECS 2211 AGGREGATE BASE AND 2111 TESTING ROLLING. TEST ROLL MUST BE WITNESSED BY THE ENGINEER OR GEOTECHNICAL ENGINEER.
14.2.TEST CONCRETE AIR CONTENT (ASTM C231), CONCRETE SLUMP (ASTM C143), AIR AND CONCRETE TEMPERATURE, AND 7- AND 28-DAY COMPRESSIVE STRENGTH (ASTM C31, C39, AND C172). WHERE APPLICABLE TEST IN ACCORDANCE WITH MN/DOT SCHEDULE OF MATERIALS CONTROL.
14.3.ALL BITUMINOUS PAVEMENT DENSITY SHALL CONFORM TO MN/DOT SPEC 2360.3.D.2 - ORDINARY COMPACTION METHOD. CONTRACTOR SHALL ESTABLISH A ROLL PATTERN FOR EACH COURSE OF PAVING EACH DAY.
15. TOLERANACES:
15.1.BITUMINOUS PAVEMENT LINE, GRADE AND THICKNESS - CONFORM TO MN/DOT SPEC 2360.3.E, EXCEPT AS MODIFIED BELOW:
15.1.1. DEVIATIONS ALONG ADA ACCESSIBLE ROUTES THAT EXCEED THE MAXIMUM SLOPES WILL BE CONSIDERED UNACCEPTABLE.
15.1.2. HORIZONTAL/LINE DEVIATIONS IN LOCATION GREATER THAN ±1 INCH WILL BE CONSIDERED UNACCEPTABLE.
15.1.3. ANY SURFACE AREA ALLOWING ENTRAPMENT OF WATER AT A DEPTH OF 1/4 INCH OR GREATER WILL BE CONSIDERED UNACCEPTABLE.
15.1.4. REMOVE AND REPLACE UNACCEPTABLE WORK AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
15.2.CONCRETE PAVEMENT - CONFORM TO MN/DOT SPEC 2521.3.D.3, EXCEPT AS MODIFIED BELOW:
15.2.1. VERTICAL DEVIATIONS IN SURFACE GREATER THAN ±3/16 INCH WILL BE CONSIDERED UNACCEPTABLE. DEVIATIONS ALONG ADA ACCESSIBLE ROUTES THAT EXCEED THE MAXIMUM SLOPES WILL BE CONSIDERED UNACCEPTABLE.
15.2.2. HORIZONTAL/LINE DEVIATIONS IN LOCATION GREATER THAN ±1/2 INCH WILL BE CONSIDERED UNACCEPTABLE.
15.2.3. ANY SURFACE AREA ALLOWING ENTRAPMENT OF WATER AT A DEPTH OF 1/8 INCH OR GREATER WILL BE CONSIDERED UNACCEPTABLE.
15.2.4. RANDOM AND UNCONTROLLED CRACKING WILL BE CONSIDERED UNACCEPTABLE. REPLACE CONCRETE PAVEMENT AS DIRECTED BY ENGINEER AND OWNER. PERFORM PAVEMENT REPLACEMENT AT NO ADDITIONAL COST TO THE OWNER.
15.2.5. REMOVE AND REPLACE UNACCEPTABLE WORK AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
15.3.CONCRETE CURB AND GUTTER: CONFORM TO MN/DOT SPEC 2531.3
15.4.PAVEMENT MARKINGS: CONFORM TO MN/DOT SPEC 2582.3.C, EXCEPT AS MODIFIED BELOW:
15.4.1. LINE WIDTH DEVIATIONS LESS THAN OR EQUAL TO ±1/4 INCH FROM THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE.
15.4.2. BROKEN LINE SEGMENTS LESS THAN OR EQUAL TO ±1/4 FOOT FROM THE SPECIFIED LENGTHS WILL BE ALLOWED FOR STRIPING.
15.4.3. ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 2 INCHES.
15.4.4. MATERIAL SHALL NOT BE APPLIED OVER LONGITUDINAL JOINTS. ESTABLISHMENT OF APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.
15.5.CONTRACTOR SHALL INSTALL A MINIMUM OF 6 INCHES CLASS 5 AGGREGATE BASE UNDER CURB AND GUTTER, SEE DETAILS.

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 14 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. REFER TO LANDSCAPE PLANS FOR FINAL GROUND COVER MATERIALS.
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 COMPLETE CONCRETE WASH-OUT OFF-SITE. NO ON-SITE WASHOUT MAY BE PERFORMED, IN ACCORDANCE WITH CITY STANDARDS.
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 WATERS. IF REMAINING FOR MORE THAN 14 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 MN/DOT SPECS 2574, PART 3.A.4 SOIL BED PREPARATION AND PART 3.A.5 SUBSOILING.
15. EROSION CONTROL SHALL MEET THE FOLLOWING REQUIREMENTS:
15.1.SILT FENCE: MN/DOT SPECS 2573 AND 3886, TYPE MS MACHINE SLICED.
15.2.SEDIMENT CONTROL LOG (BIOROLL): MN/DOT 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.
15.3.EROSION CONTROL BLANKET: MN/DOT SPECS 2575 AND 3885, CATEGORY 25 (NATURAL NETTING ONLY)
15.4.MULCH: MN/DOT SPECS 2575 AND 3882, TYPE 1, TWO TONS PER ACRE, DISK ANCHORED IN AREAS THAT DO NOT RECEIVE EROSION CONTROL BLANKET.
15.4.1. CERTIFIED BY MINNESOTA CROP IMPROVEMENT ASSOCIATION (MCIA).
15.4.2. HYDRAULIC SOIL STABILIZER MAY BE USED IN LIEU OF MULCH WITH APPROVAL OF THE ENGINEER.
15.5.TEMPORARY SEED: MN/DOT SPECS 2575 AND 3876, STATE SEED MIX 22-111 TWO-YEAR STABILIZATION

SEE SHEET G-003 FOR ADDITIONAL NOTES

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:
GREYSTONE CONSTRUCTION
2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
OFFICES IN MINNESOTA, NORTH DAKOTA & IOWA
888-742-6837
GreystoneConstruction.com

PROJECT TITLE:
HIGH STAKES SHELL
2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
NOT FOR CONSTRUCTION
Michael ...ff
LICENSE NO.: 55470
DATE: 04/25/2024

PROJECT NO.:	193806452
DWN BY: MJJ	CHK'D BY: CDL / APP'D BY: CDL
ISSUE DATE:	04/25/2024
ISSUE NO.:	1
SHEET TITLE:	GENERAL NOTES
SHEET NO.:	G-002

PERMITS REQUIRED

1. OWNER WILL SECURE THE FOLLOWING PERMITS. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH THE TERMS AND PROVISIONS OF THESE PERMITS:
2. CONTRACTOR RESPONSIBLE TO SECURE ALL OTHER FEDERAL, STATE, COUNTY, AND CITY PERMITS NECESSARY FOR CONSTRUCTION. CONTRACTOR SECURED PERMITS MAY INCLUDE BUT ARE NOT LIMITED TO:
 2.1. NPDES (CO-SUBMITTAL WITH OWNER, FEE BY CONTRACTOR) PERMIT
 2.2. DLI PLUMBING PERMIT
 2.3. CITY PERMITS

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. CONTRACTOR SHALL BACKFILL SUBGRADE AND TRENCH EXCAVATIONS PROMPTLY AFTER EXCAVATION TO AVOID UNDERMINING OF EXISTING PAVEMENT.
6. CONTRACTOR SHALL PROVIDE TOPSOIL, SEED/SOD, MULCH, AND FERTILIZER IN ACCORDANCE WITH THE LANDSCAPE PLAN.
7. REFERENCE LANDSCAPE PLAN FOR MINIMUM TOPSOIL THICKNESS. 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. CONTRACTOR SHALL CONSTRUCT/GRADE SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS IN ACCORDANCE WITH CURRENT ADA STATE AND NATIONAL STANDARDS. NOTIFY ENGINEER IN WRITING IMMEDIATELY IF ADA CRITERIA CANNOT BE MET AT ANY LOCATION.
12. 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.
13. COMPACT EMBANKMENT/SUITABLE FILL AND BACKFILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND WITH MN/DOT SPEC 2106 SPECIFIED DENSITY METHOD.
14. SOILS TESTING WILL BE COMPLETED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER/INDEPENDENT TESTING AGENCY. CONTRACTOR SHALL COORDINATE REQUIRED SOIL TESTS AND INSPECTIONS WITH THE GEOTECHNICAL ENGINEER.
15. ONSITE EMBANKMENT MATERIAL FREE OF ORGANIC SOIL AND DEBRIS MAY BE CONSIDERED FOR REUSE AS SUITABLE FILL MATERIAL IN PERVIOUS AREAS BUT MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.
16. 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.
17. 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.
18. 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.
19. FIELD QUALITY CONTROL:
 19.1. COMPACTION TESTING WILL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER. TESTING SHALL FOLLOW THE FREQUENCY OUTLINED IN THE GEOTECHNICAL REPORT OR MN/DOT SCHEDULE OF MATERIALS CONTROL. WHERE NO FREQUENCY IS PROVIDED, CONSULT THE ENGINEER FOR MINIMUM REQUIREMENTS.
20. TOLERANCES:
 20.1. GRADING ELEVATIONS - CONFORM TO MN/DOT SPEC 2106.3.I EXCEPT AS MODIFIED BELOW:
  20.1.1. FINISHED GRADING 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.

UTILITY NOTES

1. WATERMAIN WILL BE INSTALLED IN STRICT ACCORDANCE WITH THE MOST CURRENT EDITION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) SPECIFICATIONS.
2. CONTRACTOR SHALL COMPLY WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE CITY/UTILITY PROVIDER, CEAM, AND MINNESOTA PLUMBING CODE (MINNESOTA RULES CHAPTER 4714) FOR MATERIALS, INSTALLATION, AND TESTING OF WATER AND SANITARY UTILITIES.
3. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 9'-0 COVER ON ALL SANITARY SEWER AND SERVICES, UNLESS OTHERWISE NOTED.
 3.1. PROVIDE INSULATION OVER SANITARY SEWER AND SERVICES WITH PROPOSED ELEVATIONS LESS THAN MINIMUM BURY DEPTH PER PROJECT DETAILS.
4. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 7'-6" COVER ON ALL WATERLINES, UNLESS OTHERWISE NOTED.
 4.1. PROVIDE INSULATION OVER WATERMAIN AND SERVICES WITH PROPOSED ELEVATIONS LESS THAN MINIMUM BURY DEPTH PER PROJECT DETAILS.
5. 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.
6. CONTRACTOR SHALL PROVIDE 36 INCH MINIMUM VERTICAL SEPARATION (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE) BETWEEN WATER LINES AND OTHER UTILITY LINE CROSSINGS. PROVIDE INSULATION WHERE WATER, SANITARY, OR STORM UTILITIES CROSS. OFFSET WATERMAIN AND SERVICES AS NECESSARY.
7. PIPE LENGTH INDICATED BETWEEN STRUCTURES IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS NOTED OTHERWISE.
8. CONTRACTOR SHALL INSTALL TRACER WIRE ON ALL SEWER AND WATER MAINS, LATERALS, SERVICE PIPE AND CONNECTIONS TO RISERS, CURB BOXES, MANHOLES, VALVES, HYDRANTS PER OWNER. REQUIREMENTS AND PROJECT DETAILS AND SPECIFICATIONS.
9. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE WATERMAIN MUST BE INSTALLED PER THE SHAKOPEE PUBLIC UTILITIES WATERMAIN OFFSET DETAIL WAT-012 ON SHEET C-816.
10. WATERMAINS AND SERVICES SHALL NOT HAVE ANY INTERMITTENT HIGH POINTS, EXCEPT AT HYDRANTS OR AS NOTED AT SPECIFIC LOCATIONS ON THE PLANS.
11. CONTRACTOR SHALL VERIFY PIPE SIZE, MATERIAL, AND ELEVATION FOR ALL CONNECTIONS. PROVIDE APPROPRIATE PIPES AND FITTINGS REQUIRED TO MAKE CONNECTIONS TO EXISTING INFRASTRUCTURE AS VERIFIED IN THE FIELD IN ACCORDANCE WITH CITY AND UTILITY PROVIDER REQUIREMENTS.
12. SANITARY SEWER AND WATER SERVICES ARE SHOWN TERMINATING AT THE BUILDING FOOTPRINT. VERIFY WITH MEP/PLUMBING PLANS/DESIGNER FOR EXACT LOCATIONS, ELEVATIONS, AND DIMENSIONS OF BACKFLOW DEVICES (DDCV AND PRZ ASSEMBLIES), METERS, AND BUILDING UTILITY ENTRANCE LOCATIONS. PROVIDE A RISER PIPE AS NEEDED TO MATCH PLUMBING PIPING.

UTILITY NOTES (CONT.)

13. SANITARY AND WATER SERVICE SIZES AND ALIGNMENT ARE PRELIMINARY. CONTRACTOR TO DETERMINE FINAL SIZING AND ALIGNMENT W/ MEP DESIGN. IN THE EVENT THE FINAL SIZE OR ALIGNMENT IS DIFFERENT THAN PRELIMINARY, CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IN WRITING IMMEDIATELY.
14. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED PRIOR TO BACKFILLING IN ACCORDANCE WITH AGENCY HAVING JURISDICTION REQUIREMENTS.
15. CONTRACTOR SHALL PLACE AND COMPACT SUITABLE FILL MATERIAL BEFORE INSTALLATION OF PROPOSED UTILITIES.
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. SANITARY SEWER MAIN, SERVICE PIPES, FITTINGS, AND STRUCTURES SHALL MEET THE FOLLOWING REQUIREMENTS:
 17.1. SEWER SERVICE PIPING (PER MN PLUMBING CODE):
  17.1.1. PVC SCHEDULE 40 PER ASTM D 1785
 17.2. FITTINGS: ASTM D 2665 FOR SDR AND SCH 40 PVC PIPE, INJECTION MOLDED
 17.3. JOINTS: ASTM F 656 AND D 2564 FOR SCHEDULE 40 PIPE. JOINTS MUST BE CERTIFIED BY THE MANUFACTURER TO BE ABLE TO PASS THE AIR TEST OR AN INTERNAL HYDROSTATIC PRESSURE REQUIRED BY AGENCY HAVING JURISDICTION.
 17.4. TRACER WIRE: PROJECT DETAILS AND SPECIFICATIONS. TRACER WIRE MUST BE A MINIMUM 12 AWG COPPER CLAD STEEL RATED TO 30 VOLTS, HMWPE MEETING ASTM D 1248, UL LISTED FOR USE IN DIRECT BURIAL APPLICATION, WITH DESIGNATION ON THE OUTSIDE OF THE WIRE CASING AND FOLLOW APWA COLOR CODE. MINIMUM BREAK LOAD SHALL BE 450 LBS (OPEN TRENCH) OR 1150 LBS (DIRECTIONAL DRILLING/BORING) OR 4,700 LBS (PIPE BURSTING/SLIP LINING). PROVIDE GROUNDING NODES, ACCESS BOXES, AND TEST STATIONS AS REQUIRED.
 17.5. BEDDING: ASTM D 2321, PROJECT DETAILS AND SPECIFICATIONS.
 17.6. PRECAST STRUCTURES:
  17.6.1. CONFORM TO THE DETAILS/STANDARD PLATES AS SHOWN ON THE DRAWINGS, INCLUDING INTEGRAL BASE SECTIONS AND RUBBER GASKETED TONGUE AND GROOVE JOINTS, UNLESS SHOWN OTHERWISE. ALL PIPE OPENINGS SHALL HAVE INTEGRAL CAST WATERTIGHT SEAL.
  17.6.2. DESIGN: THE STRUCTURE BASE SLAB, PERIMETER WALLS, AND TOP SLAB SHALL BE DESIGNED FOR SHEAR STRENGTH, FLEXURAL STRENGTH, AND OTHER APPLICABLE STRENGTHS DUE TO HYDROSTATIC LOADING. THE DESIGN OF THE STRUCTURE SHALL CONFORM TO A MINIMUM FACTOR OF SAFETY OF 1.3 FOR BUOYANCY AND FLOTATION. THE HYDROSTATIC LOADING (WATER TABLE ELEVATIONS) SHALL BE ASSUMED FROM THE TOP OF THE STRUCTURE. THE STRUCTURE SHALL BE DESIGNED AND DETAILED PREPARED BY A PROFESSIONAL ENGINEER, EXPERIENCED IN PRECAST CONCRETE MANHOLE DESIGN, WHO IS REGISTERED IN THE STATE OF MINNESOTA.
  17.6.3. ADJUSTMENT RINGS: MOLDED HDPE CONFORMING TO ASTM D1248.
  17.6.4. ADHESION MATERIAL: BETWEEN TOP SLAB AND BARREL SECTION - RAM-NEK OR APPROVED EQUAL. FOR HDPE RINGS, USE DOW 999-A BUILDING CAULKING AND GLAZING SEALANT OR APPROVED EQUAL.
  17.6.5. EXTERNAL/INTERNAL SEALS: IN ACCORDANCE WITH CITY REQUIREMENTS.
18. WATERMAIN, SERVICE PIPES AND FITTINGS TO MEET THE FOLLOWING REQUIREMENTS:
 18.1. MAINS: DUCTILE IRON PIPE CLASS 52 PER AWWA C151 AND C104
 18.2. SERVICES: DUCTILE IRON PIPE CLASS 52 PER AWWA C150, C151 AND C104
 18.3. FITTINGS: AWWA C153, 250 PSI WORKING PRESSURE WITH COATING PER AWWA C116
 18.4. JOINTS: AWWA C111 WITH MECHANICAL JOINTS AND THRUST BLOCKING PER PROJECT DETAILS.
 18.5. STUBS: MECHANICALLY RESTRAINED JOINTS WITH THRUST BLOCKING PER PROJECT DETAILS.
 18.6. TRACER WIRE: CITY REQUIREMENTS AND PROJECT DETAILS AND SPECIFICATIONS. TRACER WIRE MUST BE A MINIMUM 12 AWG COPPER CLAD STEEL RATED TO 30 VOLTS, HMWPE MEETING ASTM D 1248, UL LISTED FOR USE IN DIRECT BURIAL APPLICATION, WITH DESIGNATION ON THE OUTSIDE OF THE WIRE CASING AND FOLLOW APWA COLOR CODE. MINIMUM BREAK LOAD SHALL BE 450 LBS (OPEN TRENCH) OR 1150 LBS (DIRECTIONAL DRILLING/BORING) OR 4,700 LBS (PIPE BURSTING/SLIP LINING). PROVIDE GROUNDING NODES, ACCESS BOXES, AND TEST STATIONS AS REQUIRED.
 18.7. ENCASEMENT: V-BIO POLYETHYLENE PER SPU WATER POLICY MANUAL. ENCASE DUCTILE IRON PIPE, FITTINGS, VALVES, AND OTHER APPURTENANCES.
 18.8. JOINT RESTRAINT: PROVIDE AT ALL BENDS, TEES, AND DEAD-ENDS/STUBS IN ACCORDANCE WITH THE REQUIREMENTS OF CEAM AND EBAA IRON RESTRAINT LENGTH CALCULATOR.
 18.9. BEDDING: ASTM D 2321 AND AWWA C605 (PVC), AWWA C600 (DIP), PROJECT DETAILS AND SPECIFICATIONS.
 18.10. THRUST BLOCKING: WATERMAIN AND SERVICES REQUIRE THRUST BLOCKING PER PROJECT DETAILS. CONCRETE MUST HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 PSI.
 18.11. HYDRANTS: PER SHAKOPEE PUBLIC UTILITIES REQUIREMENTS.
 18.12. VALVES: PER SHAKOPEE PUBLIC UTILITIES REQUIREMENTS.
19. CONTRACTOR SHALL INSTALL PVC PIPING IN ACCORDANCE WITH CEAM, ASTM D 2321 AND ASTM F 1668 (FOR GRAVITY SEWER), AND PROJECT DETAILS AND SPECIFICATIONS, AND CONTRACTOR SHALL INSTALL DUCTILE PIPE IN ACCORDANCE WITH CEAM, AWWA C600, AND PROJECT DETAILS AND SPECIFICATIONS.
20. CONTRACTOR SHALL COMPACT EMBEDMENT/BEDDING/BACKFILL MATERIAL TO THE SPECIFIED DENSITY METHOD IN ACCORDANCE WITH MN/DOT 2106 AND THE GEOTECHNICAL REPORT.
21. FIELD QUALITY CONTORL, TESTING, INSPECTIONS, AND CERTIFICATIONS MUST COMPLY WITH THE FOLLOWING:
 21.1. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, AGENCY HAVING JURISDICTION AND UTILITY PROVIDER COMPANIES.
 21.2. SANITARY LINES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO:
  21.2.1. SERVICE PIPE AND STRUCTURES TESTING TO MEET MN PLUMBING CODE CHAPTER 7 SECTIONS 712 AND 723 REQUIREMENTS
  21.2.2. LEAKAGE TESTING TO MEET SHAKOPEE PUBLIC UTILITIES REQUIREMENTS
  21.2.3. DEFLECTION TESTING TO MEET SHAKOPEE PUBLIC UTILITIES REQUIREMENTS
  21.2.4. TELEVISING INSPECTION TO MEET SHAKOPEE PUBLIC UTILITIES REQUIREMENTS
  21.2.5. CONDUCTIVITY TESTING TO MEET SHAKOPEE PUBLIC UTILITIES REQUIREMENTS
 21.3. WATER LINES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO:
  21.3.1. HYDROSTATIC PRESSURE TESTING TO MEET SHAKOPEE PUBLIC UTILITIES REQUIREMENTS
  21.3.2. DISINFECTION OF THE WATER SYSTEM TO MEET SHAKOPEE PUBLIC UTILITIES, MN PLUMBING CODE CHAPTER 6 SECTION 609.9, AND MINNESOTA DEPARTMENT OF HEALTH REQUIREMENTS
  21.3.3. CONDUCTIVITY TESTING TO MEET SHAKOPEE PUBLIC UTILITIES REQUIREMENTS
 21.4. A COPY OF THE TEST RESULTS MUST BE PROVIDED TO THE OWNER, ENGINEER, CITY, SHAKOPEE PUBLIC UTILITIES, AND ANY OTHER AGENCY HAVING JURISDICTION.
22. CONTRACTOR SHALL PROVIDE AND INSTALL A FLEXIBLE COMPRESSION JOINT TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES IN ACCORDANCE WITH MINNESOTA PLUMBING CODE CHAPTER 7, SECTION 719.6. RESILIENT RUBBER JOINTS MAY BE USED IF APPROVED BY AGENCY HAVING JURISDICTION.
23. TOLERANCES:
 23.1. SANITARY PIPE
  23.1.1. HORIZONTAL - WITHIN 0.50 FEET OF ALIGNMENT
  23.1.2. VERTICAL - ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN WITH NO INTERMEDIATE HIGH POINTS, LEVEL SECTION, OR REVERSE INVERT SLOPE.
  23.1.3. JOINT DEFLECTION - NO MORE THAN 75% OF MAXIMUM ALLOWABLE, AS RECOMMENDED BY MANUFACTURERS OF PIPE AND JOINT MATERIAL
 23.2. WATER PIPE
  23.2.1. HORIZONTAL - WITHIN 0.50 FEET OF ALIGNMENT
  23.2.2. VERTICAL - 0 FEET PLUS AND 1 FEET MINUS ELEVATION SHOWN, WHILE MEETING THE MINIMUM SEPARATION REQUIREMENTS AT CROSSINGS.
  23.2.3. JOINT DEFLECTION - NO MORE THAN 75% OF MAXIMUM ALLOWABLE, AS RECOMMENDED BY MANUFACTURERS OF PIPE AND JOINT MATERIAL
 23.3. HYDRANTS/VALVES/CURB STOPS/TRACER WIRE ACCESS BOXES/CASTINGS:
  23.3.1. WITHIN 0.05 FEET OF FINAL ELEVATION. VALVE/TRACER WIRE BOXES, CURB STOPS, AND CASTINGS SHALL NOT EXTEND ABOVE FINAL PAVED SURFACE ELEVATION.

STORM SEWER NOTES

1. 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 36 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 IS RESPONSIBLE FOR PROPERLY LOCATING AND INSTALLING CATCH BASINS SO THAT THE INLET FRAME AND GRATE PROPERLY ALIGN WITH CURB AND GUTTER.
8. DRAINTILE/SUBSOIL DRAIN AROUND BUILDING PERIMETER NOT SHOWN ON CIVIL DRAWINGS. CONTRACTOR SHALL VERIFY IF DRAINTILE REQUIRED WITH ARCHITECT/STRUCTURAL/MEP AND COORDINATE CONNECTION TO STORM SYSTEM WITH ENGINEER.
9. INSTALL SUBSOIL DRAINS/DRAINTILE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT (LOCATIONS NOT SHOWN ON PLANS).
10. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED PRIOR TO BACKFILLING IN ACCORDANCE WITH CITY/AGENCY HAVING JURISDICTION REQUIREMENTS.
11. 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.
12. PROVIDE METAL FENCE POSTS AT END OF STORM SEWER PIPE STUBS, 4' ABOVE GRADE. STORM SEWER FENCE POST SHALL BE PAINTED RED.
13. STORM SEWER MAINS, SERVICE PIPES, FITTINGS, AND STRUCTURES TO MEET THE FOLLOWING REQUIREMENTS:
 13.1. SITE PIPING:
  13.1.1. 12 INCH DIA. AND LARGER, HDPE WATER TIGHT PIPE PER AASHTO M 294 ASTM F 2306, ASTM D 3212, AND ASTM F 477 OR PVC SCH 40 PER ASTM D1785 AND ASTM D2665, AS NOTED ON THE DRAWINGS.
  13.1.2. 6 INCH DIA. AND SMALLER, AS NOTED ON THE DRAWING, PVC SCH 40 PER ASTM D1785 AND ASTM D2665.
 13.2. ROOF DRAIN LEADER PIPING AND FITTINGS: PVC SCH 40 PER ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS.
 13.3. 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.
 13.4. SUBSOIL DRAINS: PERFORATED PVC SCH 40 OR SDR 26 IN ACCORDANCE WITH ASTM D 2729 - ¼ INCH PERFORATIONS AT 3 INCHES ON CENTER, 4 HOLES PER ROW CONFORMING TO ASTM F758
  13.4.1. COARSE FILTER AGGREGATE: MN/DOT SPEC 3149.2.H.
  13.4.2. GEOTEXTILE FABRIC WRAP: MN/DOT SPEC 3733, TYPE 1
 13.5. AREA DRAIN INLETS: NYLOPLAST LIGHT DUTY DRAIN BASIN OR INLINE BASIN W/ DUCTILE IRON LOCKABLE COVER OR APPROVED EQUAL, SEE PLAN FOR GRATE TYPE AND SIZING.
 13.6. PRECAST STRUCTURES:
  13.6.1. GENERAL: ASTM C478 AND DRAWING DETAILS.
  13.6.2. STRUCTURE JOINTS: RUBBER O-RING GASKET MEETING ASTM C443
  13.6.3. STEPS: PER DETAILS
  13.6.4. 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, FLEXURAL STRENGTH, AND OTHER APPLICABLE STRENGTHS DUE TO HYDROSTATIC LOADING. THE DESIGN SHALL BE IN ACCORDANCE WITH THE MOST CURRENT ACI 318, AASHTO, AND MN/DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, EXCEPT AS NOTED.
  13.6.5. MORTAR MATERIALS: MN/DOT SPEC 2506.2B, ASTM C270, AND ASTM C387.
  13.6.6. ADJUSTMENT RINGS: SIZE TO MATCH CONE OR OPENING IN TOP SLAB. MOLDED HDPE CONFORMING TO ASTM D1248.
  13.6.7. ADHESION MATERIAL: BETWEEN TOP SLAB AND BARREL SECTION - RAM-NEK OR APPROVED EQUAL. FOR HDPE RINGS, USE DOW 999-A BUILDING CAULKING AND GLAZING SEALANT OR APPROVED EQUAL.
 13.7. BEDDING: CONTRACTOR SHALL INSTALL PVC AND HDPE PIPING IN ACCORDANCE WITH CEAM, ASTM D 2321 AND ASTM F 1668 (FOR GRAVITY SEWER), ASTM D 2774 (FOR PRESSURE PIPE), ASTM A 798 (FOR CMP), AND PROJECT DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL INSTALL RC PIPE IN ACCORDANCE WITH CEAM, ASTM C 1479, AND PROJECT DETAILS AND SPECIFICATIONS. GRANULAR BEDDING SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARDS AND MN/DOT SPEC 3149.
 13.8. TRACER WIRE: CITY REQUIREMENTS AND PROJECT DETAILS AND SPECIFICATIONS. TRACER WIRE MUST BE A MINIMUM 12 AWG COPPER CLAD STEEL RATED TO 30 VOLTS, HMWPE MEETING ASTM D 1248, UL LISTED FOR USE IN DIRECT BURIAL APPLICATION, WITH DESIGNATION ON THE OUTSIDE OF THE WIRE CASING AND FOLLOW APWA COLOR CODE. MINIMUM BREAK LOAD SHALL BE 450 LBS (OPEN TRENCH) OR 1150 LBS (DIRECTIONAL DRILLING/BORING) OR 4,700 LBS (PIPE BURSTING/SLIP LINING). PROVIDE GROUNDING NODES, ACCESS BOXES, AND TEST STATIONS AS REQUIRED.
  13.8.1. CONTRACTOR SHALL INSTALL TRACER WIRE ON ALL SEWER MAINS, LATERALS, SERVICE PIPE AND CONNECTED TO RISERS, MANHOLES PER CITY REQUIREMENTS AND PROJECT DETAILS AND SPECIFICATIONS. TRACER WIRE MUST BE UL LISTED FOR USE IN DIRECT BURIAL APPLICATION.
14. FIELD QUALITY CONTROL, TESTING, INSPECTIONS, AND CERTIFICATIONS MUST COMPLY WITH THE FOLLOWING:
 14.1. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, AGENCY HAVING JURISDICTION AND UTILITY SERVICE COMPANIES.
 14.2. STORM LINES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
  14.2.1. SERVICE PIPE AND ROOF DRAIN LEADERS TESTING TO COMPLY WITH MN PLUMBING CODE CHAPTER 7 SECTION 712 AND CHAPTER 11 SECTION 1109
  14.2.2. 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 1109.
  14.2.3. DEFLECTION TESTING TO MEET CITY REQUIREMENTS
  14.2.4. TELEVISING INSPECTION TO MEET CITY REQUIREMENTS
  14.2.5. CONDUCTIVITY TESTING TO MEET CITY REQUIREMENTS
 14.3. A COPY OF THE TEST RESULTS MUST BE PROVIDED TO THE OWNER, ENGINEER, UTILITY PROVIDER, AND AGENCY HAVING JURISDICTION.
15. REFER TO THE MEP PLANS FOR EXACT LOCATIONS, ELEVATIONS, AND DIMENSIONS OF BUILDING UTILITY ENTRANCE LOCATIONS.
16. CONTRACTOR SHALL CLEAN STRUCTURES AND PIPING OF DEBRIS AND SEDIMENT DURING AND AT THE END OF CONSTRUCTION UNTIL ACCEPTED BY THE OWNER AND ENGINEER.
17. TOLERANCES:
 17.1. STORM SEWER PIPE
  17.1.1. HORIZONTAL - WITHIN 0.50 FEET OF ALIGNMENT
  17.1.2. VERTICAL - ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN WITH NO INTERMEDIATE HIGH POINTS, LEVEL SECTION, OR REVERSE INVERT SLOPE.
  17.1.3. JOINT DEFLECTION - NO MORE THAN 75% OF MAXIMUM ALLOWABLE, AS RECOMMENDED BY MANUFACTURERS OF PIPE AND JOINT MATERIAL
 17.2. STORM STRUCTURE
  17.2.1. RIM ELEVATIONS - ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN.

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:
GREYSTONE CONSTRUCTION
2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
OFFICES IN MINNESOTA, NORTH DAKOTA & IOWA
888-742-6837
GreystoneConstruction.com

PROJECT TITLE:
HIGH STAKES SHELL
2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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

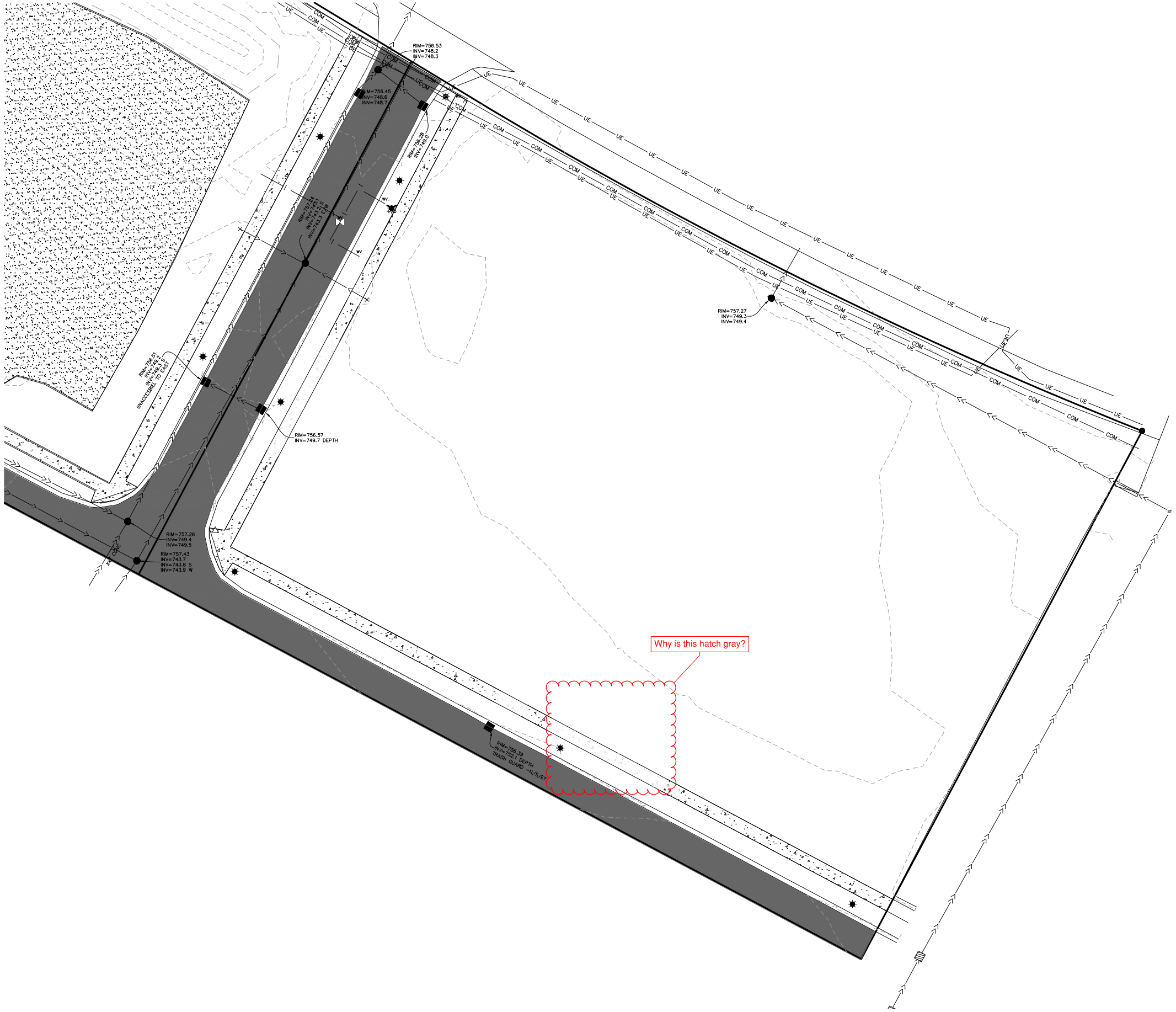
NOT FOR CONSTRUCTION

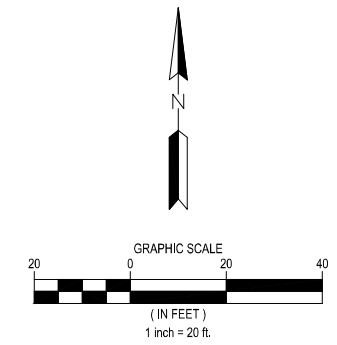
Michael ...iff
LICENSE NO.: 55470
DATE: 04/25/2024

PROJECT NO.:	193806452
DWN BY:	MJJ
CHK'D BY:	CDL
APP'D BY:	CDL
ISSUE DATE:	04/25/2024
ISSUE NO.:	1
SHEET TITLE:	GENERAL NOTES
SHEET NO.:	G-003

4/25/2024 1:09:52 PM
\\us0242-ppfss01\shared_projects\193806452\LDev\5_DESIGN\1_CAD\3 PLANSHEETS\C-002 GENERAL NOTES 06452.dwg

4/25/2024 1:15:28 PM





NOTES

1. SEE SHEET G-002 FOR ADDITIONAL PROJECT NOTES.
2. VERIFY CONDITIONS OF THE SITE PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- RIGHT OF WAY LINE
- EXISTING PROPERTY LINE
- COM — EXISTING UNDERGROUND COMMUNICATION LINE
- UE — UE — EXISITNG UNDERGROUND ELECTRIC LINE
- EXISITNG STORM SEWER
- EXISITNG SANITARY SEWER
- EXISTING CONCRETE SURFACE
- EXISTING ASPHALT SURFACE
- EXISTING GRAVEL SURFACE
- EXISTING STORM SEWER INLET
- EXISTING TRANSFORMER
- EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING WATER VALVE
- EXISTING LIGHT POLE

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

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:

2995 Wiseera Circle Drive, Suite 200
Shakopee, MN 55379
(PRIMARY CONTACT) 612-812-4 EMAIL
888-742-6837
GreystoneConstruction.com
GREYSTONE CONSTRUCTION

PROJECT TITLE:
HIGH STAKES SHELL
2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

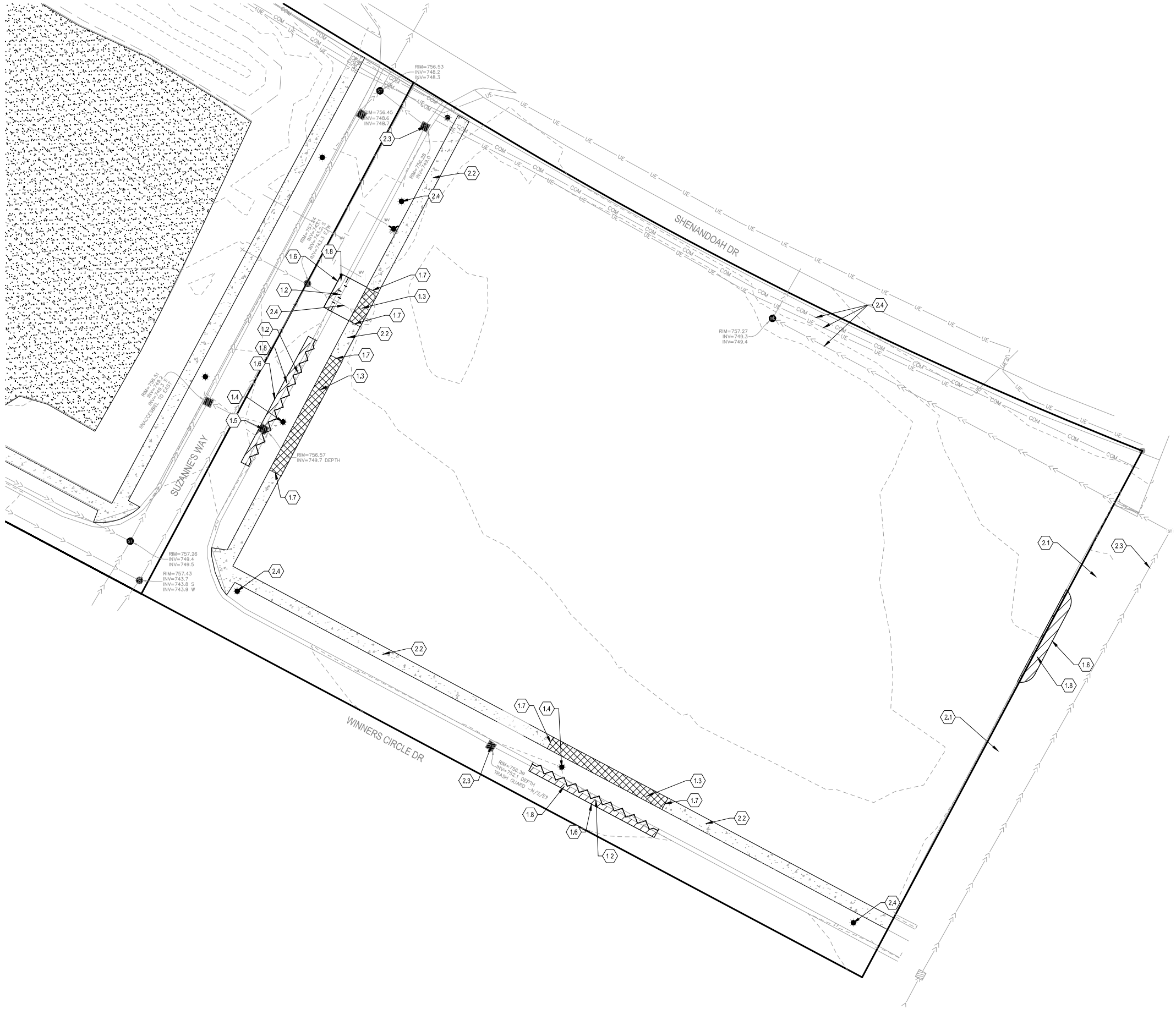
NOT FOR CONSTRUCTION

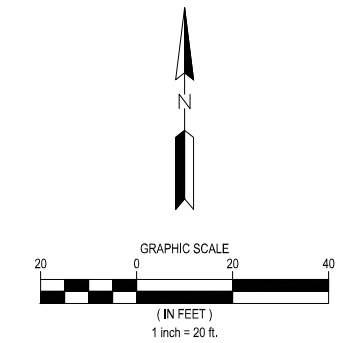
Michael J. Jaff
LICENSE NO.: 55470
DATE: 04/25/2024

PROJECT NO.:	193806452
DWN BY: MJJ / CHK'D BY: CDL / APP'D BY: CDL	
ISSUE DATE:	04/25/2024
ISSUE NO.:	1
SHEET TITLE:	EXISTING CONDITIONS
SHEET NO.:	C-001

\\us2042-vpfs01\shared_projects\193806452\Dwf\5_DESIGN\1_CAD\3 PLANSHEETS\C-001 EXISTING CONDITIONS 06452.dwg

4/25/2024 1:11:00 PM





NOTES

1. CLEAR AND GRUB AS NEEDED WITHIN LIMITS OF DISTURBANCE.
2. CONTRACTOR SHALL EVALUATE LIMITS OF REMOVAL FOR PROPOSED UTILITY INSTALLATION. IN THE EVENT THAT CURB AND PAVEMENT ARE IMPACTED IN ADDTION TO THE SIDEWALK CONTRACTOR SHALL REPLACE EXISTING CURB AND PAVEMENT TO MATCH EXISTING CONDITIONS PER CITY STANDARDS AND REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.

LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- RIGHT OF WAY LINE
- EXISTING PROPERTY LINE
- REMOVE CURB AND GUTTER
- REMOVE CONCRETE PAVEMENT
- REMOVE GRAVEL SURFACING
- REMOVE BITUMINOUS PAVEMENT

KEYNOTES (#)

1. REMOVAL ITEMS
   - 1.2. REMOVE CURB AND GUTTER
   - 1.3. REMOVE SIDEWALK
   - 1.4 SALVAGE LIGHT POLE, REMOVE FOUNDATION
   - 1.5 REMOVE CASTING
   - 1.6 SAWCUT BITUMINOUS (FULL DEPTH)
   - 1.7 SAWCUT CONCRETE (FULL DEPTH, AT THE NEAREST JOINT)
   - 1.8 REMOVE BITUMINOUS PAVEMENT
2. PROTECT ITEMS
   - 2.1. PROTECT EXISTING PAVEMENT
   - 2.2. PROTECT EXISTING SIDEWALK
   - 2.3. PROTECT EXISTING STORM SEWER AND STRUCTURES
   - 2.4. PROTECT EXISTING UTILITIES AND STRUCTURES

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

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:

2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
888-742-6837
GreystoneConstruction.com
GREYSTONE CONSTRUCTION

PROJECT TITLE:

HIGH STAKES SHELL

2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NOT FOR CONSTRUCTION

Michael J. Jaff
LICENSE NO.: 55470
DATE: 04/25/2024

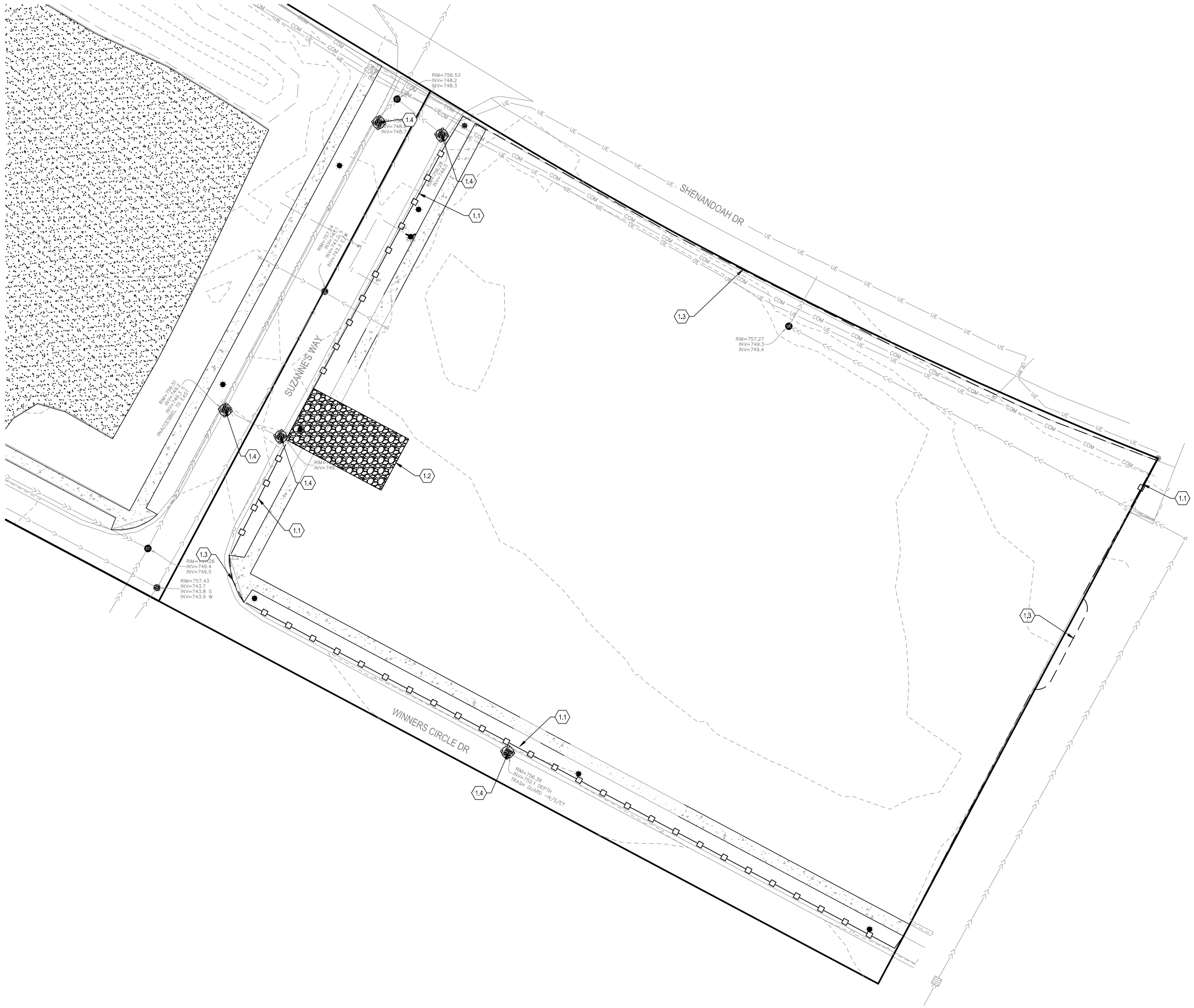
PROJECT NO.:	193806452

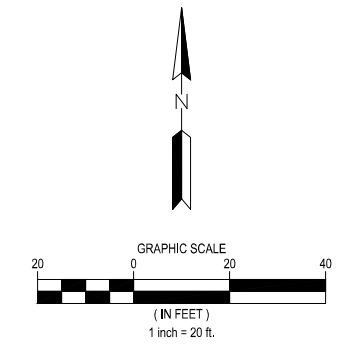
DWN BY:	CHK'D BY:	APP'D BY:
MJJ	CDL	CDL

ISSUE DATE:	04/25/2024
ISSUE NO.:	1
SHEET TITLE:	C-002 REMOVAL PLAN
SHEET NO.:	----

\\us2042-pwfs01\shared_projects\193806452\Dwl\5_DESIGN\1_CAD\3 PLANSHEETS\C-004 REMOVALS PLAN (06452.dwg

4/25/2024 1:11:30 PM





NOTES

1. CONSTRUCTION SITE SHALL HAVE STABILIZED EXIT AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROTECT THE DOWNSTREAM WATER FROM CONSTRUCTION RUNOFF.
2. CONSTRUCTION LIMITS AND SILT FENCE ARE SHOWN OFFSET FROM PROPERTY LINE FOR CLARITY, WHERE APPLICABLE.

LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- RIGHT OF WAY LINE
- EXISTING PROPERTY LINE
- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE
- BIOLOG

KEYNOTES (#)

1. EROSION CONTROL ITEMS
   - 1.1. SILT FENCE - SEE DETAIL SHEET C-812
   - 1.2. STABILIZED CONSTRUCTION ENTRANCE - SEE DETAIL SHEET C-814
   - 1.3. BIOLOG - SEE DETAIL 5/C-802
   - 1.4 INLET PROTECTION - SEE DETAIL SHEET C-813

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

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:

2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
888-742-6837
GreystoneConstruction.com
GREYSTONE CONSTRUCTION

PROJECT TITLE:

HIGH STAKES SHELL

2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NOT FOR CONSTRUCTION

Michael J. Jaff

LICENSE NO.: 55470

DATE: 04/25/2024

PROJECT NO.:	193806452	
DWN BY: MJJ	CHK'D BY: CDL	APP'D BY: CDL
ISSUE DATE:	04/25/2024	
ISSUE NO.:	1	

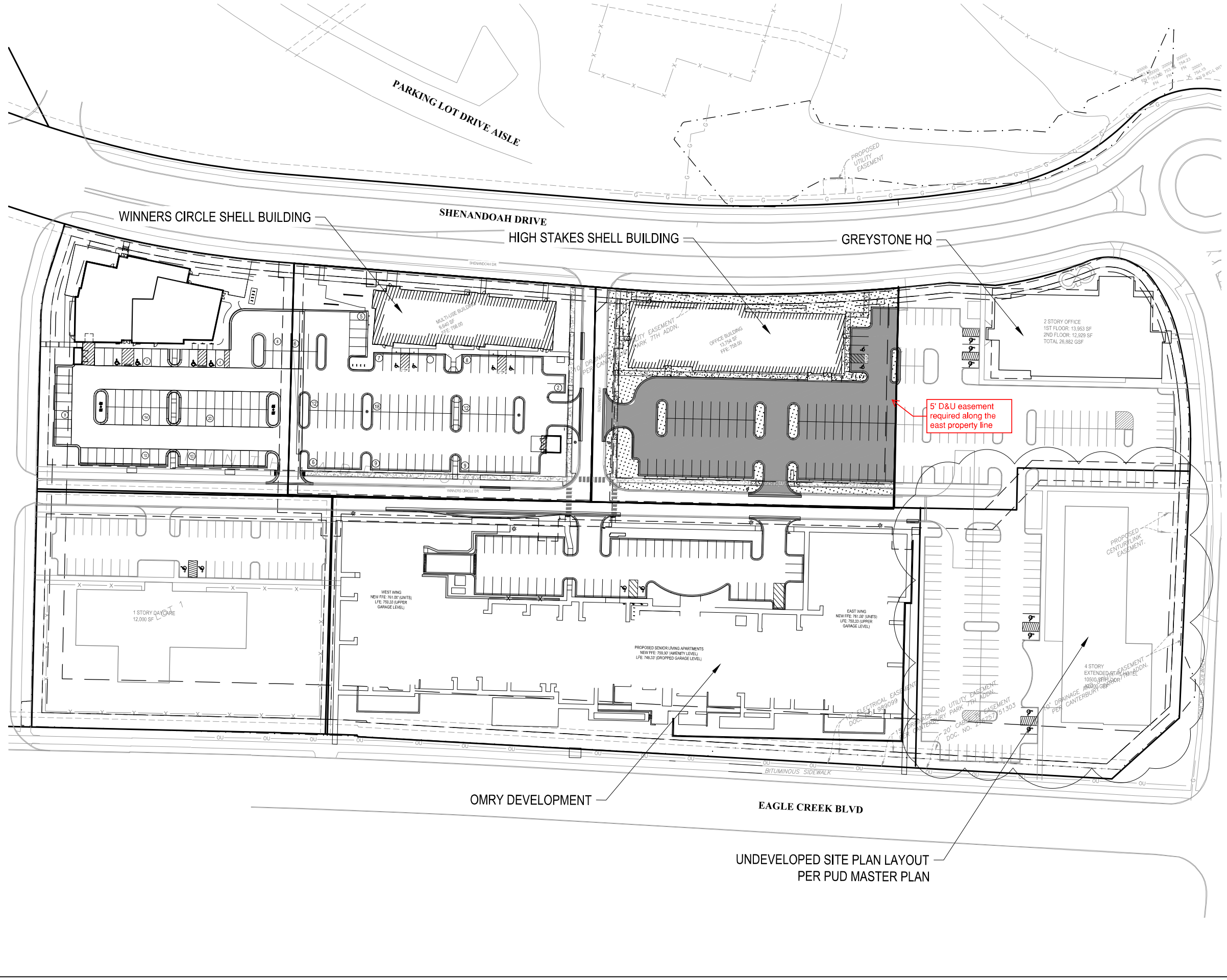
SHEET TITLE:

C-003 PRECONSTRUCTION EROSION CONTROL PLAN

SHEET NO.:

\\us2042-vpfs01\shared_projects\193806452\Dwv\5_DESIGN\1_CAD\3 PLANSHEETS\C-005 PRECONSTRUCTION EROSION CONTROL PLAN (06452).dwg

4/25/2024 1:12:57 PM



GRAPHIC SCALE

50 0 50 100

(IN FEET)

1 inch = 50 ft.

NOTES

1. SEE SHEET G-002 FOR ADDITIONAL PROJECT NOTES..
2. THIS DRAWING DEPICTS A COMBINATION OF THE PROPOSED IMPROVEMENTS FOR THE HIGH STAKES SHELL PROJECT AND DESIGN FILES FOR PROJECTS RECENTLY CONSTRUCTED AND/OR FUTURE DEVELOPMENTS AS DEPICTED IN THE PUD MASTER PLAN.

LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- CURB AND GUTTER
- BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- GRASS / LANDSCAPING
- (#) PROPOSED PARKING COUNT

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:

2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
888-742-6837
GreystoneConstruction.com
GREYSTONE CONSTRUCTION

PROJECT TITLE:

HIGH STAKES SHELL

2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NOT FOR CONSTRUCTION

Michael J. Joff

LICENSE NO.: 55470

DATE: 04/25/2024

PROJECT NO.:	193806452

DWN BY:	CHK'D BY:	APP'D BY:
MJJ	CDL	CDL

ISSUE DATE:	04/25/2024
ISSUE NO.:	1

SHEET TITLE:

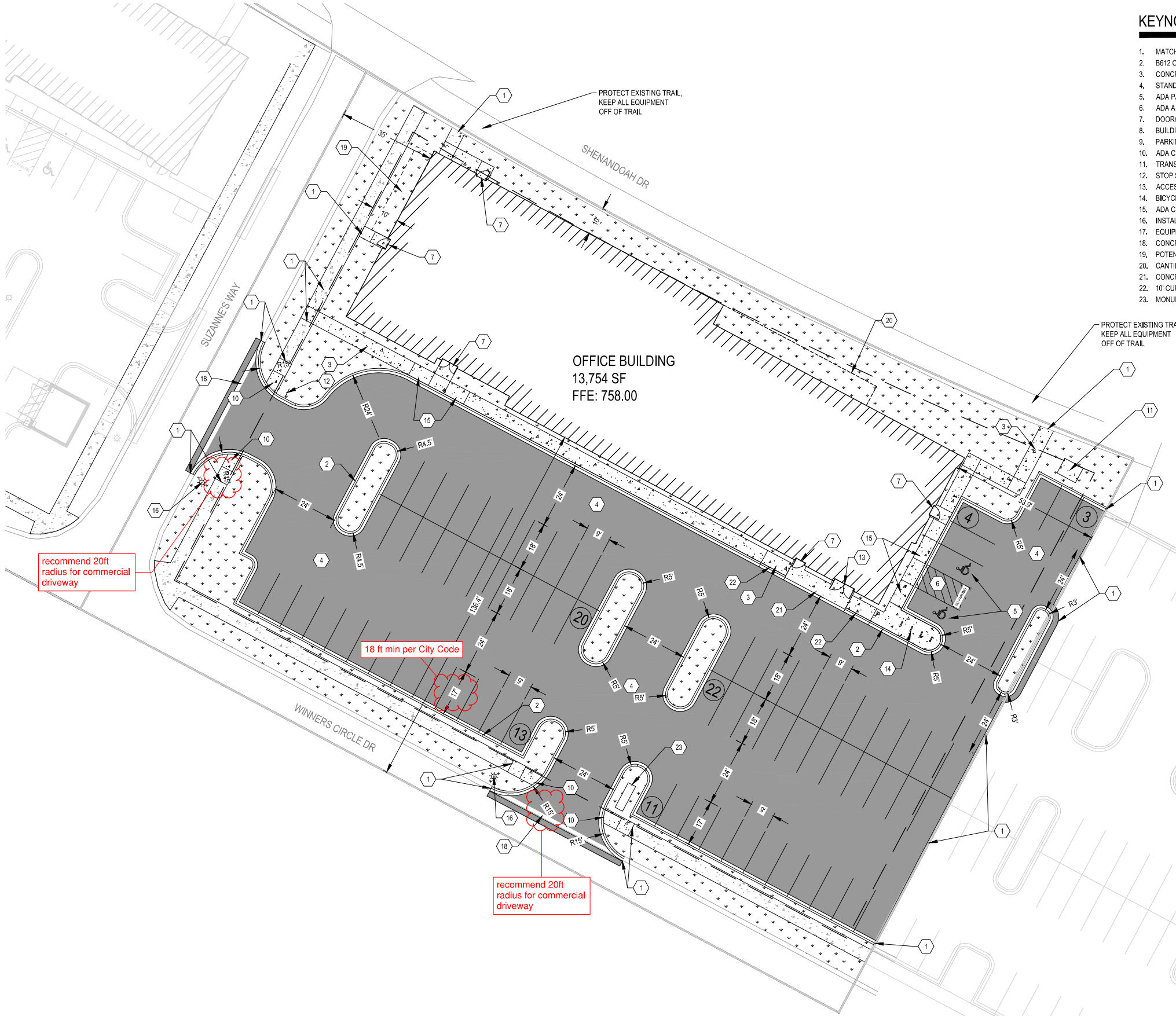
OVERALL SITE PLAN

SHEET NO.:

C-100

\\us2242-pvfsn01\shared_projects\193806452\Dwv5_DES\CIV\1_CAD\3 PLANSHEETS\C-100 OVERALL SITE PLAN 06452.dwg

4/25/2024 1:14:18 PM



KEYNOTES

1. MATCH EXISTING (TYP.)
2. B612 CURB AND GUTTER - SEE DETAIL 1003/C-805
3. CONCRETE SIDEWALK - SEE DETAIL 1/C801 & 4001/C-805
4. STANDARD BITUMINOUS PAVEMENT - SEE DETAIL 3/C801
5. ADA PARKING STALL WITH SIGN SET IN BOLLARD - SEE DETAIL 3/C802
6. ADA AISLE - SEE DETAIL 3/C-818
7. DOOR/STRUCTURAL STOOP - SEE ARCHITECTURAL PLANS
8. BUILDING SETBACK LINE
9. PARKING SETBACK LINE
10. ADA CURB RAMP WITH DETECTABLE WARNING - SEE DETAIL C-806
11. TRANSFORMER PAD / CT SWITCH
12. STOP SIGN - SEE DETAIL 2/C802 & 4009/C803
13. ACCESS TO TRASH - SEE ARCHITECTURAL PLANS
14. BICYCLE PARKING LOOPS - SEE DETAIL 4/C817
15. ADA CURB RAMP - SEE DETAIL C806
16. INSTALL LIGHTING UNIT & BASE, POUR NEW FOUNDATION
17. EQUIPMENT PAD, ELECTRICAL EQUIPMENT BY OTHERS
18. CONCRETE VALLEY GUTTER - SEE DETAIL 1/C-818
19. POTENTIAL FUTURE PATIO AREA
20. CANTILEVER BUILDING ENVELOPE
21. CONCRETE RIBBON CURB
22. 10' CURB TRANSITION
23. MONUMENT SIGN - SEE ARCHITECTURAL PLANS

N

GRAPHIC SCALE
20 0 20 40
(IN FEET)
1 inch = 20 ft.

NOTES

1. SEE SHEET G-002 FOR ADDITIONAL PROJECT NOTES.
2. PROPERTY ADDRESSES FOR INDIVIDUAL TENANTS IN THE BUILDING ARE AS FOLLOWS:
   TENANT #01 - XXXX WINNERS CIRCLE DRIVE,
   TENANT #02 - XXXX WINNERS CIRCLE DRIVE,
   TENANT #03 - XXXX WINNERS CIRCLE DRIVE.

LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- CURB AND GUTTER
- BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- GRASS / LANDSCAPING
- (#) PROPOSED PARKING COUNT

SITE ANALYSIS TABLE

ADDRESS	2941 WINNERS CIRCLE DRIVE, SHAKOPEE, MN 55379		
EXISTING ZONING	MAJOR RECREATION		
PROPOSED ZONING	MAJOR RECREATION		
PROPOSED USE	COMMERCIAL		
LOT AREA SUMMARY			
LOT NUMBER	TOTAL AREA (AC.)	IMPERVIOUS AREA (AC.)	PERVIOUS AREA (AC.)
EXISTING PARCEL SUMMARY	1.55	0.23	1.32
PROPOSED	1.55	1.28	0.27
BUILDING SUMMARY			
LOT NUMBER	BUILDING FOOTPRINT (SF)	GROSS FLOOR AREA (SF)	# OF STORIES
PROPOSED	13,754	28,065	2
PARKING SUMMARY			
TOTAL PARKING	REQUIRED	PROPOSED	
PROPOSED	BASED ON USE	94	
ACCESSIBLE PARKING	REQUIRED	PROPOSED	
PROPOSED USE	4	4	
BICYCLE PARKING	7	8	
GREENSPACE SUMMARY - HIGH STAKES SITE, 83% IMPERVIOUS MAX			
	CODE REQUIREMENT (AC)	PROPOSED (AC)	
IMPERVIOUS AREA (INCL. BLDG.)	1.28	1.28	
PERVIOUS AREA	0.27	0.27	
BUILDING AREA	N/A	0.32	
ADDITIONAL IMPERVIOUS AVAIL.	N/A	0.00	
GREENSPACE SUMMARY - TOTAL SW GATEWAY DEVELOPMENT, 80% IMPERVIOUS MAX			
PROJECT	IMPERVIOUS USED AC, (%)	IMPERVIOUS AVAIL (AC, %)	
OMRY SITE - 3.50 AC	2.06 (59%)	0.74 (21%)	
GREYSTONE HQ - 1.45 AC	1.14 (79%)	0.01 (1%)	
STARTING GATE - 1.62 AC	1.34 (83%)	-0.04 (-3%)	
HIGH STAKES - 1.22 AC	1.28 (83%)	-0.05 (-3%)	
TOTAL 7.79 AC	5.82 (75%)	0.66 (9%)	
SETBACKS			
	REQUIRED (FT)	PROPOSED (FT)	
FRONT	50'	10'	
SIDE	25'	54'	
SIDE CORNER	50'	35'	
REAR	30'	136'	
PARKING	5'	17'	

NOTES:

1. AS PART OF THIS PUD APPLICATION, WE ARE REQUESTING AN INCREASE IN THE ALLOWABLE IMPERVIOUS AREA BY 2,000 SF OR 83% IMPERVIOUS COVERAGE FOR THE PROPOSED STARTING GATE DEVELOPMENT. THE AGGREGATE IMPERVIOUS AREA FOR THE SOUTHWEST GATEWAY DEVELOPMENT WILL REMAIN BELOW THE 80% MAXIMUM IMPERVIOUS AND WITHIN THE DESIGN PARAMETERS OF THE REGIONAL STORMWATER MANAGEMENT FACILITIES.

2. BUILDING AREAS NOTED HEREIN WERE PROVIDED BY THE PROJECT ARCHITECT AND ARE SUBJECT TO CHANGE BASED ON FUTURE TENANT REQUIREMENTS.

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

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:

2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
888-742-6837
GreystoneConstruction.com
GREYSTONE CONSTRUCTION

PROJECT TITLE:

HIGH STAKES SHELL

2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NOT FOR CONSTRUCTION

Michael J. Jeff
LICENSE NO.: 55470
DATE: 04/25/2024

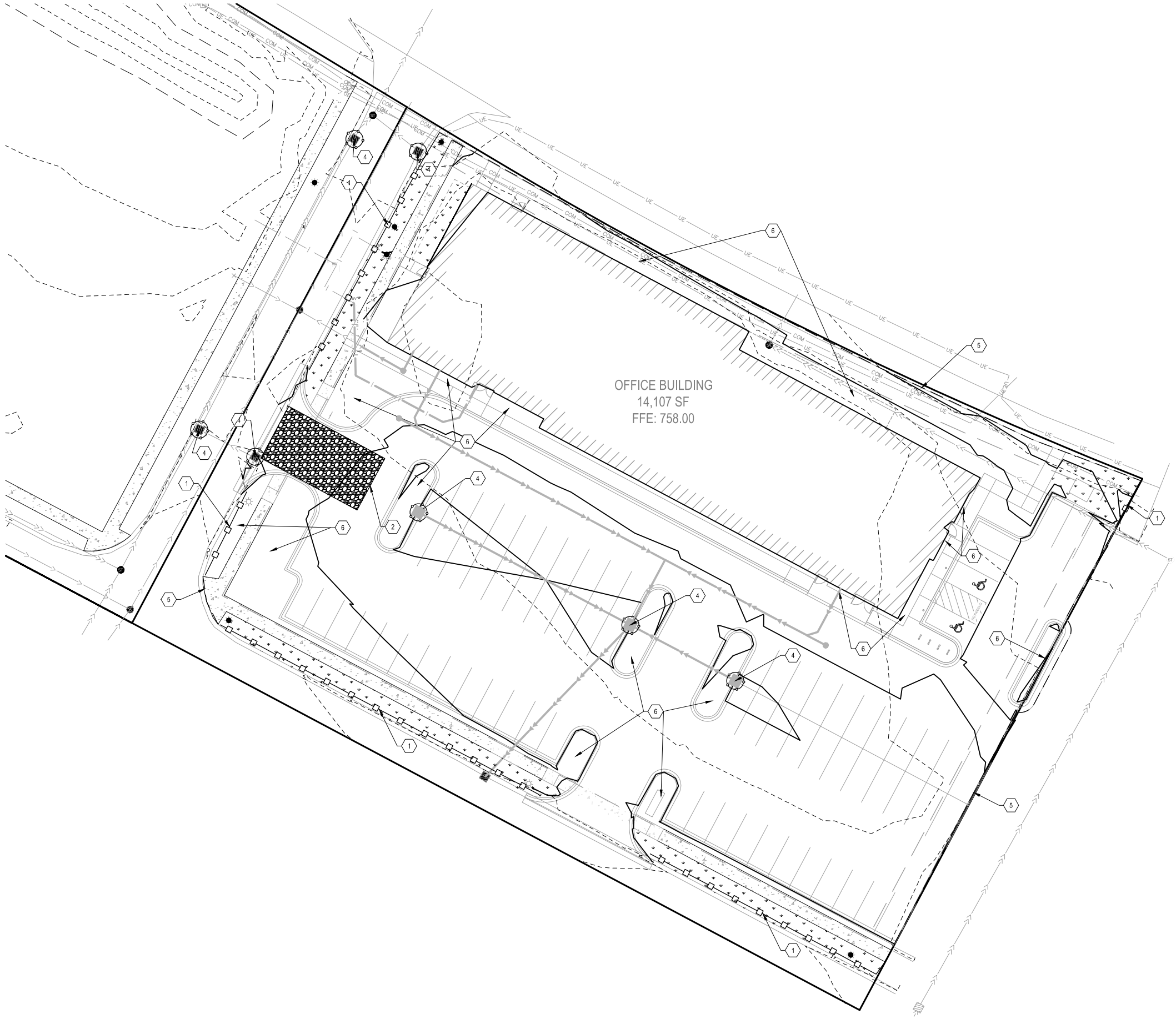
PROJECT NO.: 193806452

DWN BY:	CHK'D BY:	APP'D BY:
MJJ	CDL	CDL

ISSUE DATE: 04/25/2024
ISSUE NO.: 1
SHEET TITLE: SITE PLAN
SHEET NO.: C-101

\\us0242-vpfs01\shared_projects\193806452\Dwv5_DESIGN\1_CAD\3 PLANSHEETS\C-101 SITE PLAN 06452.dwg

4/25/2024 1:15:39 PM



N

GRAPHIC SCALE
20 0 20 40
(IN FEET)
1 inch = 20 ft.

NOTES

1. CONSTRUCTION SITE SHALL HAVE STABILIZED EXIT AT ALL TIME THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROTECT DOWNSTREAM WATERS FROM CONSTRUCTION RUNOFF.
2. CONSTRUCTION LIMITS AND SILT FENCE SHOWN OFF SET FROM PROPERTY LINE FOR CLARITY WHEN APPLICABLE.

LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- RIGHT OF WAY LINE
- EXISTING PROPERTY LINE
- 901 EXISTING MINOR CONTOUR
- 900 EXISTING MAJOR CONTOUR
- 901 PROPOSED MINOR CONTOUR
- 900 PROPOSED MAJOR CONTOUR
- STABILIZED CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- SEED [OR SOD]
- SILT FENCE
- BIOLOG

KEYNOTES

1. SILT FENCE - SEE DETAIL SHEET C-812
2. STABILIZED CONSTRUCTION ENTRANCE - SEE DETAIL SHEET C-814
3. (UNUSED NOTE)
4. INLET PROTECTION - SEE DETAIL SHEET C-813
5. BIOLOG - SEE DETAIL 5/C-802
6. SEE LANDSCAPING PLANS FOR LANDSCAPE ROCK DETAILS

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

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:
2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
888-742-6837
GreystoneConstruction.com
GREYSTONE CONSTRUCTION

PROJECT TITLE:
HIGH STAKES SHELL
2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NOT FOR CONSTRUCTION

Michael J. Jaff
LICENSE NO.: 55470
DATE: 04/25/2024

PROJECT NO.:	193806452
DWN BY: MJJ	CHK'D BY: CDL
APP'D BY: CDL	
ISSUE DATE:	04/25/2024
ISSUE NO.:	1

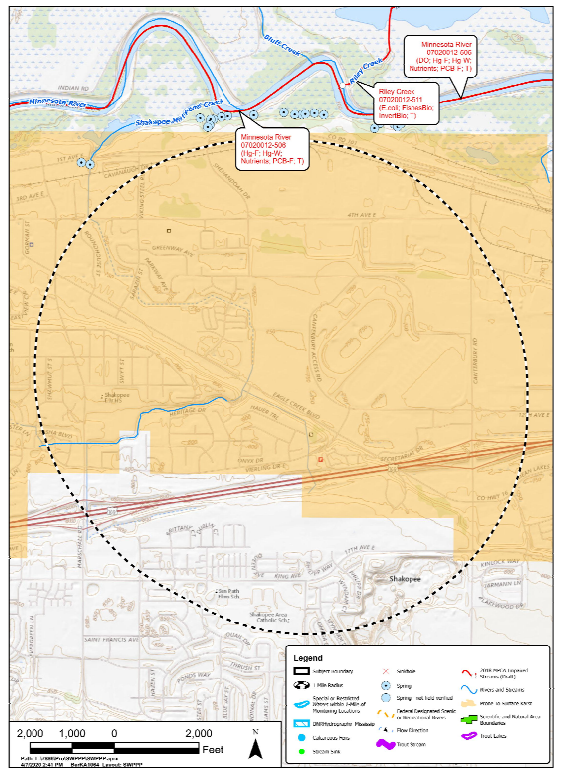
SHEET TITLE:
POST-CONSTRUCTION STABILIZATION PLAN

SHEET NO.:
C-201

\\us2042-pwfs01\shared_projects\193806452\Dwr\5_DESIGN\1_CAD\3 PLANSHEETS\C-201 POST CONSTRUCTION STABILIZATION PLAN 06452.dwg

4/25/2024 1:16:04 PM

IMPAIRED WATERS MAP



SOIL MAP



PROJECT INFORMATION

PROJECT NAME: HIGH STAKES SHELL
PROJECT LOCATION: 2941 WINNER'S CIRCLE DRIVE, SHAKOPEE MN 55379
PROJECT TYPE: MULTI-USE - NEW BUILDING, PARKING LOT, STORM SEWER, AND UTILITIES
TOTAL AREA DISTURBED BY CONSTRUCTION: APPROXIMATELY 1.38 ACRES. THE TOTAL SITE AREA IS APPROXIMATELY 1.55 ACRES.

ESTIMATED CONSTRUCTION DATES: FALL 2024 - SPRING 2026
CUMULATIVE IMPERVIOUS SURFACE/PERMANENT STORMWATER MANAGEMENT REQUIREMENTS:
THE PROPOSED PROJECT RESULTS IN A ±1.04 ACRE NET INCREASE IN IMPERVIOUS SURFACE WITHIN THE LIMITS OF DISTURBANCE.

THE SITE ULTIMATELY DRAINS TO, BUT IS NOT WITHIN 1 MILE OF, THE MINNESOTA RIVER, WHICH IS LISTED AS AN IMPAIRED WATER FOR AQUATIC CONSUMPTION, AQUATIC LIFE AND AQUATIC RECREATION DRINKING WATER, AND LIMITED RESOURCE VALUE. THERE ARE CURRENT APPROVED TMDLS FOR THE WATERBODY FOR FECAL COLIFORM, MERCURY IN FISH TISSU, PCBs, NITRATE, DISSOLVED OXYGEN AND TURBIDITY

THE PERMANENT STORMWATER SYSTEM WILL CONSIST OF A PRIVATE CONVEYANCE SYSTEM THAT CONNECTS TO THE CITY OF SHAKOPEE'S PUBLIC STORMWATER COLLECTION SYSTEM. STORMWATER THAT IS COLLECTED BY THE PRIVATE SYSTEM IS DISCHARGED INTO A REGIONAL STORMWATER POND TO THE NORTH OF THE SITE.

PARTY RESPONSIBLE FOR LONG TERM OPERATION AND MAINTENANCE OF THE SITE (OWNER): CANTERBURY DBSV DEVELOPMENT, LLC
CONTACT: TBD
CONTACT PHONE: TBD
CONTACT EMAIL: TBD
PARTY RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP (CONTRACTOR): GREYSTONE CONSTRUCTION
CONTRACTOR: DAVID HARTMAN
CONTRACTOR PHONE: 612-282-5607
CONTRACTOR EMAIL: DHARTMAN@GREYSTONECONSTRUCTION.COM

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.

OMRY INDEPENDENT LIVING SITE CONSTRUCTION DRAWINGS BY STANTEC DATED SEPTEMBER, 2023
OMRY INDEPENDENT LIVING STORMWATER COMPLIANCE MEMO BY STANTEC DATED SEPTEMBER, 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 PART IV.E 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, EROSION CONTROL BLANKET) 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 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. 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 AND ADDITIONAL BMPS SHALL BE INSTALLED TO FURTHER PREVENT TRACKING OFFISTE. 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 SWEPT TO ENSURE THEY ARE FULLY CLEANED. IF NECESSARY, ADDITIONAL BMPS SHALL BE INSTALLED TO PREVENT TRACKING BEYOND THE SITE'S PERIMETER.

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 MCPA 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 NOT BE PERMITTED ON SITE PER CITY OF SHAKOPEE STANDARDS.

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. BASINS, IF DESIGNED BY THE CONTRACTOR, SHALL ACCOMMODATE NO LESS THAN 3,600 CUBIC FEET OF LIVE STORAGE PER ACRE OF CONTRIBUTING DRAINAGE AREA. 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 NOT LOCATED WITHIN ONE MILE OF AN IMAPIRED WATER BODY, AND ULTIMATELY DISCHARGES TO A REGIONAL STORMWATER SYSTEM. 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 REGIONAL STORMWATER MANAGEMENT SYSTEM FOR STORMWATER MANAGEMENT PRIOR TO THE ULTIMATE DISCHARGE POINT THAT IS THE MINNESOTA RIVER. THE PROJECT WILL NOT IMPACT WETLANDS.

SITE SOILS - SITE SOILS ARE SHOWN ON THIS SHEET. THIS PROJECT IS LOCATED IN AN AREA PRONE TO KARST, SO INFILTRATION WAS NOT USED IN THIS DESIGN.

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	QUANITITY	UNIT
INLET PROTECTION	8	EA
EROSION CONTROL BLANKET	0	SY
SILT FENCE	400	LF
BIOROLL	500	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. MICHAEL J JULIFF'S CERTIFICATION IN DESIGN OF SWPPP IS VALID THROUGH MAY 31, 2026.

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

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:
GREYSTONE CONSTRUCTION
2995 Wiseera Circle Drive, Suite 200
Shakopee, MN 55379
(PRELIMINARY ADDRESS)
888-742-6837
GreystoneConstruction.com

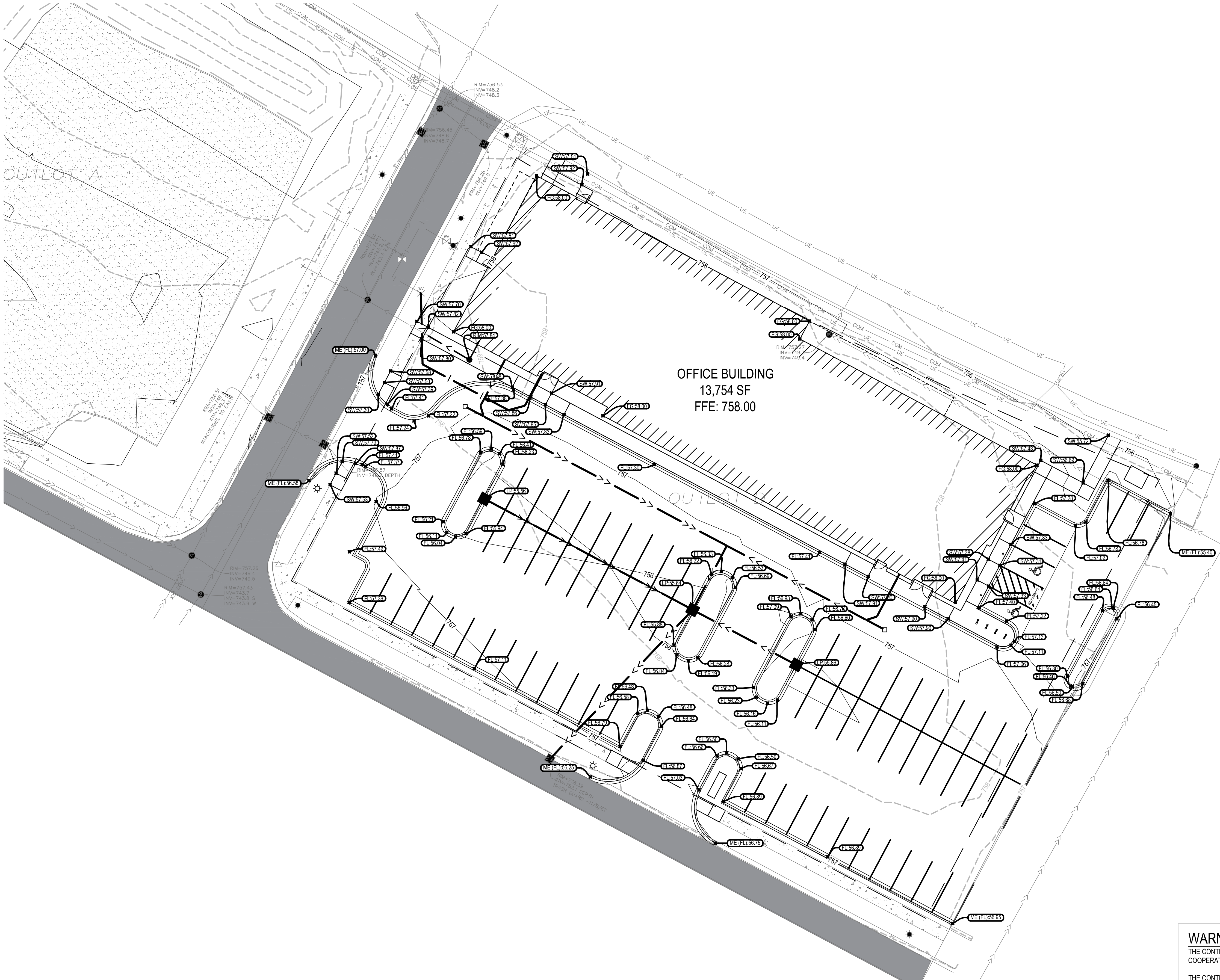
PROJECT TITLE: HIGH STAKES SHELL
2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Michael J Juliff
LICENSE NO.: 55470
DATE: 04/25/2024
NOT FOR CONSTRUCTION

PROJECT NO.: 193806452
DWN BY: MJJ | CHK'D BY: CDL | APP'D BY: CDL
ISSUE DATE: 04/25/2024
ISSUE NO.: 1
SHEET TITLE: SWPPP
SHEET NO.: C-202

\\us0242-vpfs01\shared_projects\193806452\Civil\5_DESIGN\1_CAD\3 PLANSHEETS\C-202 SWPPP 06452.dwg



NOTES

1. SEE SHEET <C/G>-002 FOR ADDITIONAL PROJECT NOTES.
2. 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 CONSTRUCTIBILITY, 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.
3. CONTRACTOR MUST IMMEDIATELY NOTIFY THE OWNER AND ENGINEER IN WRITING OF DISCREPANCIES OR CONFLICT IN T HE CONTRACT DOCUMENTS BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS ARE TO BE MADE WITHOUT PRIOR OR 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 RELATED CHANGE ORDER.

LEGEND

Symbol	Description
	PROPERTY BOUNDARY
901	EXISTING MINOR CONTOUR
900	EXISTING MAJOR CONTOUR
>>	EXISTING STORM SEWER
>	EXISTING SANITARY SEWER
I	EXISTING WATERMAIN
	EXISTING SANITARY MANHOLE
	EXISTING STORM SEWER MANHOLE
	EXISTING STORM SEWER INLET
WV	EXISTING WATER VALVE
901	PROPOSED MINOR CONTOUR
900	PROPOSED MAJOR CONTOUR
	GRADING LIMITS
FL=9XX.XX	FLOW LINE ELEVATION
FG=9XX.XX	FINISHED GRADE ELEVATION
ME=9XX.XX	MATCH EXISTING ELEVATION
SW=9XX.XX	SIDEWALK ELEVATION
HP=9XX.XX	HIGH POINT SPOT ELEVATION
LP=9XX.XX	LOW POINT SPOT ELEVATION
RIM=9XX.XX	STRUCTURE RIM SPOT ELEVATION
1.00%	SURFACE GRADE & FLOW DIRECTION
>>	STORM SEWER
>	SANITARY SEWER
S	SANITARY SERVICE
I	WATERMAIN
	STORM MANHOLE
	STORM CATCH BASIN
	SANITARY MANHOLE
	HYDRANT
	GATE VALVE

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

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:

GREYSTONE CONSTRUCTION
2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
OFFICES IN MINNESOTA, NORTH DAKOTA & IOWA
888-742-6837
GreystoneConstruction.com

PROJECT TITLE:

HIGH STAKES SHELL

2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

CERTIFICATION:

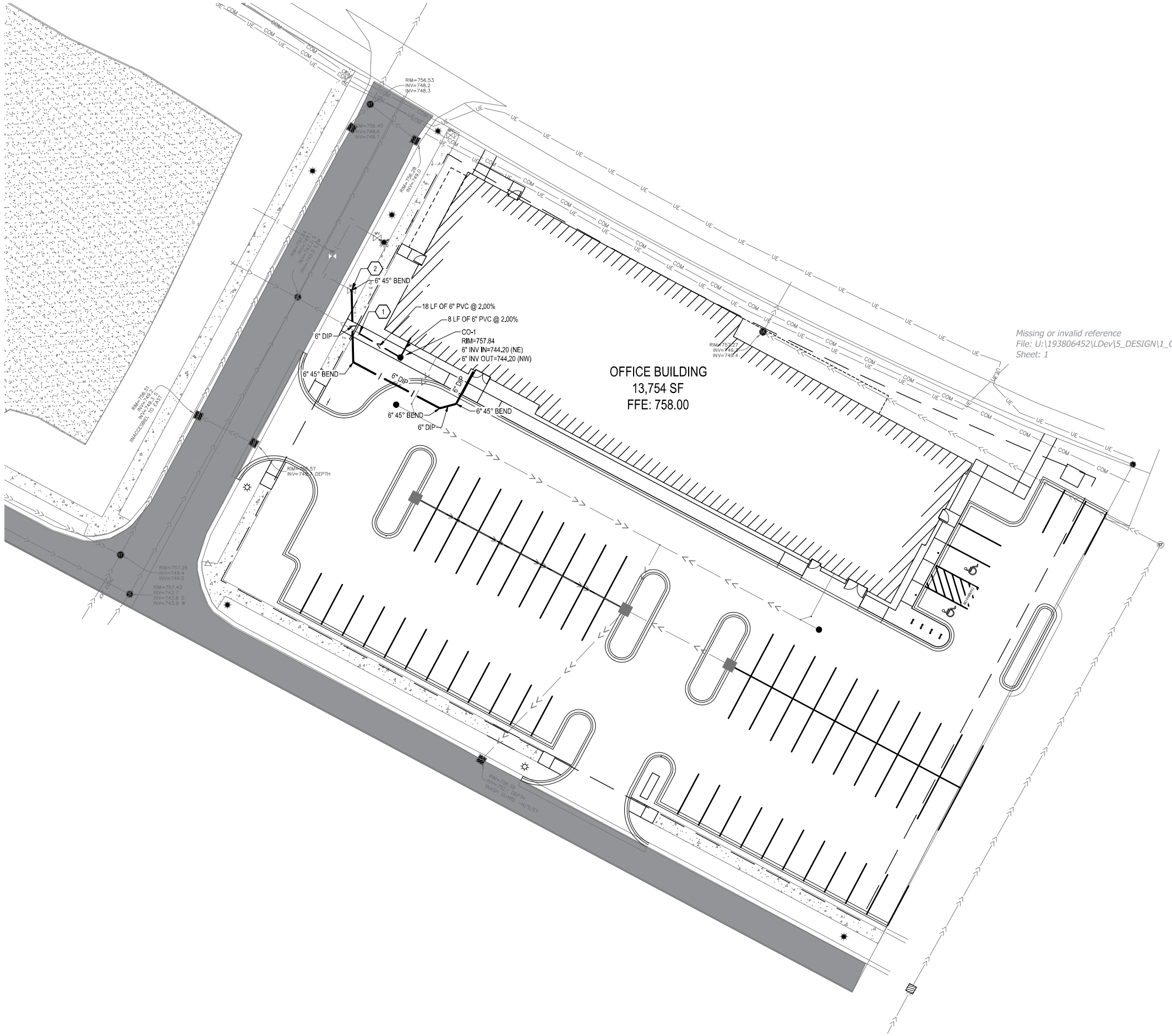
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NOT FOR CONSTRUCTION

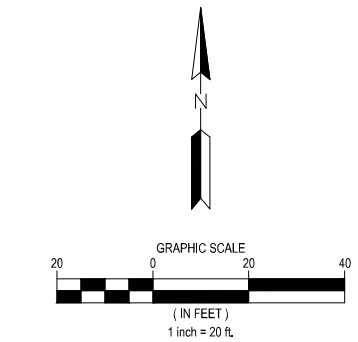
Michael ... Iff
LICENSE NO.: 55470
DATE: 04/25/2024

PROJECT NO.:	193806452	
DWN BY: MJJ	CHK'D BY: CDL	APP'D BY: CDL
ISSUE DATE:	04/25/2024	
ISSUE NO.:	1	
SHEET TITLE:	GRADING	
SHEET NO.:	C-301	

4/25/2024 1:18:31 PM



Missing or invalid reference
File: U:\193806452\LDev\5_DESIGN\1_CAD\5 LIBRARY\PDF\Pages from SPU_WaterPolicyManual.pdf
Sheet: 1



NOTES

1. SEE SHEET G-002 & G-003 FOR ADDITIONAL PROJECT NOTES AND SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY LOCATION, SIZE, INVERT, AND MATERIAL OF ALL UTILITY CONNECTIONS TO UTILITY MAINS.

KEYNOTES

1. CONNECT TO EXISTING 6" PVC SANITARY SEWER. VERIFY LOCATION AND ELEVATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. CONNECT TO EXISTING 6" DIP WATERMAIN. VERIFY LOCATION AND ELEVATION IN THE FIELD PRIOR TO CONSTRUCTION.

LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- SETBACK LINE
- RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- EXISTING PROPERTY LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING SANITARY MANHOLE
- EXISTING CLEANOUT
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- EXISTING STORM SEWER INLET
- EXISTING HYDRANT
- 901 PROPOSED MINOR CONTOUR
- 900 PROPOSED MAJOR CONTOUR
- GRADING LIMITS
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- STORM MANHOLE
- STORM CATCH BASIN
- SANITARY MANHOLE
- CLEANOUT
- HYDRANT
- GATE VALVE

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

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:

2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
888-742-6837
GreystoneConstruction.com
GREYSTONE CONSTRUCTION

PROJECT TITLE:
HIGH STAKES SHELL
2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NOT FOR CONSTRUCTION

Michael J. Janiff
LICENSE NO.: 55470
DATE: 04/25/2024

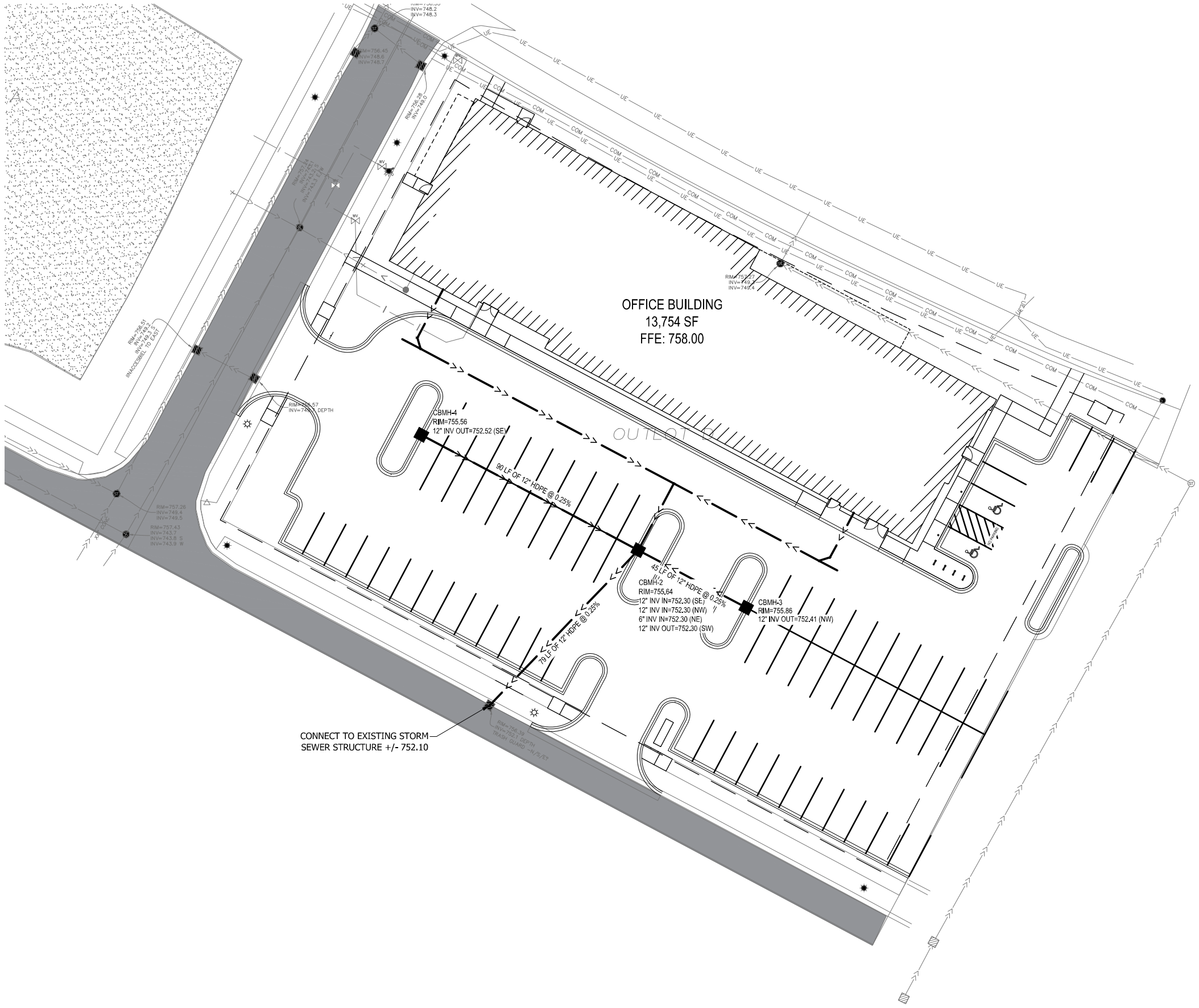
PROJECT NO.: 193806452

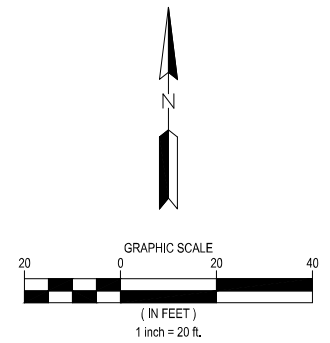
DWN BY:	CHK'D BY:	APP'D BY:
MJJ	CDL	CDL

ISSUE DATE: 04/25/2024
ISSUE NO.: 1
SHEET TITLE: UTILITY
SHEET NO.: C-401

\\us0242-sppfss01\shared_projects\193806452\LDev\5_DESIGN\1_CAD\3 PLANSHEETS\C-401 UTILITY.dwg

4/25/2024 1:19:35 PM





NOTES

1. SEE SHEET G-002 & G-003 FOR ADDITIONAL PROJECT NOTES AND SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY LOCATION, SIZE, INVERT, AND MATERIAL OF ALL UTILITY CONNECTIONS TO UTILITY MAINS.

LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- SETBACK LINE
- RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- EXISTING PROPERTY LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING SANITARY MANHOLE
- EXISTING CLEANOUT
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- EXISTING STORM SEWER INLET
- EXISTING HYDRANT
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- GRADING LIMITS
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- STORM MANHOLE
- STORM CATCH BASIN
- SANITARY MANHOLE
- CLEANOUT
- HYDRANT
- GATE VALVE

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

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:

2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
888.742.6837
GreystoneConstruction.com
GREYSTONE CONSTRUCTION

HIGH STAKES SHELL

2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Michael J. Jaff

LICENSE NO.: 55470

DATE: 04/25/2024

NOT FOR CONSTRUCTION

PROJECT NO.:	193806452

DWN BY:	CHK'D BY:	APP'D BY:
MJJ	CDL	CDL

ISSUE DATE:	04/25/2024
ISSUE NO.:	1

SHEET TITLE:

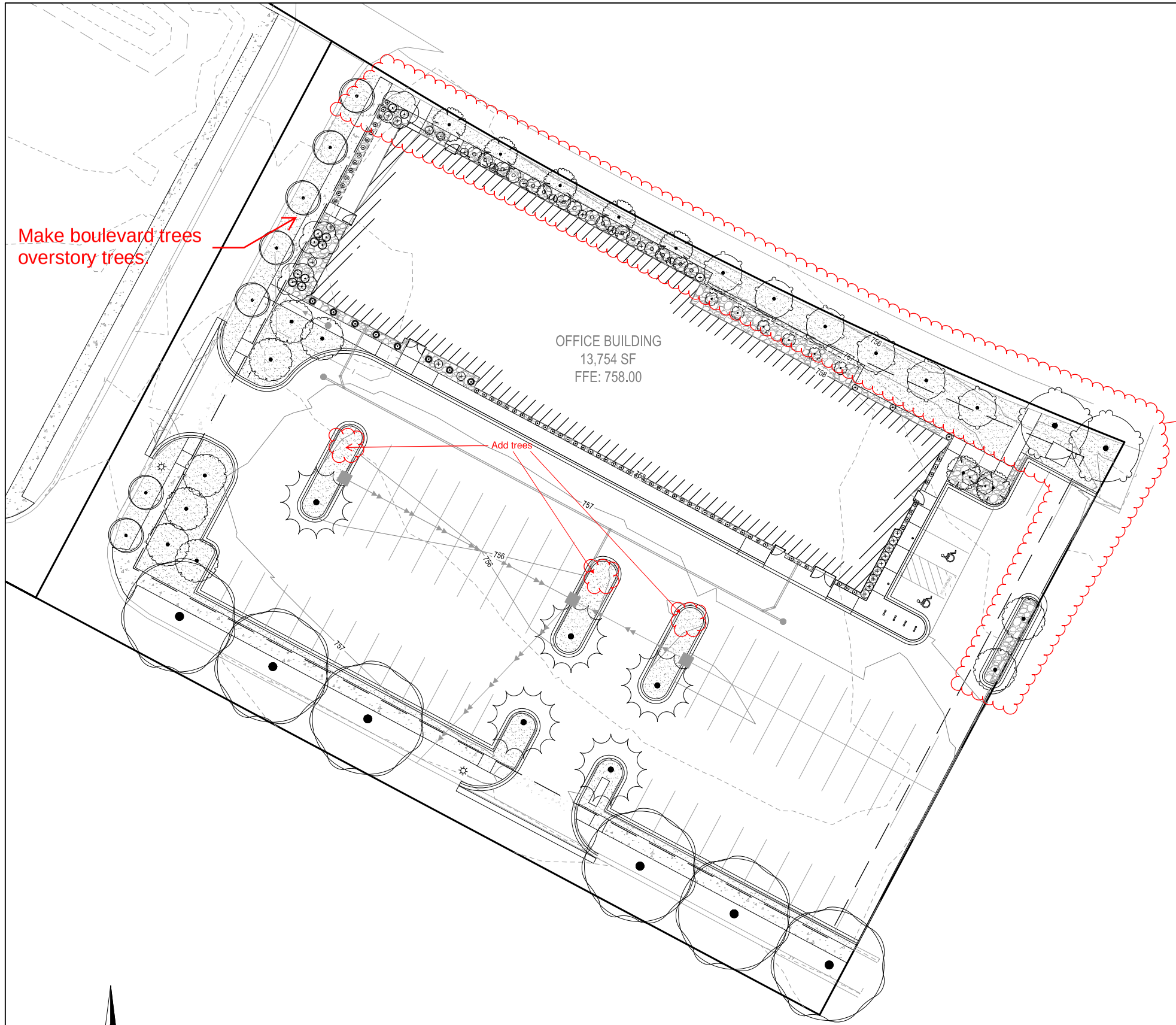
STORM SEWER

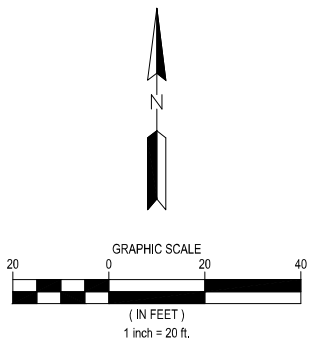
SHEET NO.:

C-501

\\us0242-sppfss01\shared_projects\193806452\Civil\6_DESIGN\1_CAD\3-PLAN\SHEETS\C-501 STORM SEWER.dwg

4/25/2024 1:25:45 PM





GRAPHIC SCALE
20 0 20 40
(IN FEET)
1 inch = 20 ft.

NOTES

1. SEE SHEET G-002 AND G-003 FOR ADDITIONAL PROJECT NOTES AND DETAILS.
2. MAXIMUM SOIL COMPACTION IN PLANTING AREAS IS NOT TO EXCEED 80% STANDARD PROCTOR OR 200 PSI.
3. FINANCIAL SECURITY IS REQUIRED IN THE AMOUNT OF 150% OF AN APPROVED BID. SECURITY TO BE HELD FOR 2 YEARS FROM PLANTING DATE. UP TO 75% OF SECURITY MAY BE REDUCED / RETURNED AT TIME OF PLANTING WITH AN APPROVED INSPECTION AND A 2-YEAR WARRANTY.

LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- 1.5" BLACK GRANITE ROCK MULCH, 3" DEPTH
- TURF SOD

LANDSCAPE CODE REQUIREMENTS

1. BUILDING FOOTPRINT: 13,851 SF (2 TREES PER 1,000 SF)
   - 1.1. TREES REQUIRED: 28
   - 1.2. TREES PROPOSED: 24
2. IMPERVIOUS AREA TREES: 55,761 SF (1 TREE PER 4,000 SF)
   - 2.1. REQUIRED TREES: 14
   - 2.2. PROPOSED TREES: 14
3. PARKING LOT TREES: 69 SPACES (1 TREE PER 10 SPACES)
   - 3.1. REQUIRED TREES: 7
   - 3.2. PROPOSED TREES: 7
4. SUMMARY
   - 4.1. TOTAL TREES REQUIRED: 49
   - 4.2. TOTAL TREES PROPOSED: 46
   - 4.3. TOTAL TREE DEFICIT: 4
5. LANDSCAPE AREA: 15% OF LOT AREA (SF)
   - 5.1. REQUIRED: 10,108 SF
   - 5.2. PROPOSED: 11,629 SF

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL
OVERSTORY TREES						
	AR	7	ACER RUBRUM 'RED ROCKET'	RED ROCKET MAPLE	B&B	2.5"
	GC	5	GYMNOCLADUS DIOICUS 'UMNSYNERGY'	TRUE NORTH™ KENTUCKY COFFEETREE	B&B	2.5"
	PP	9	POPULUS TREMULOIDES 'NE ARB'	PRAIRIE GOLD® QUAKING ASPEN	B&B	2.5"
	QE	6	QUERCUS X 'CRIMSCHMIDT'	CRIMSON SPIRE™ OAK	B&B	2.5"
	TB	2	TILIA AMERICANA 'BOULEVARD'	BOULEVARD AMERICAN LINDEN	B&B	2.5"
	UO	7	ULMUS AMERICANA 'LEWIS & CLARK'	PRAIRIE EXPEDITION® AMERICAN ELM	B&B	2.5"
UNDERSTORY TREES						
	MP	7	MALUS X 'PRAIRIE ROSE'	PRAIRIE ROSE CRABAPPLE	B&B	1.5"
	PN2	3	PRUNUS NIGRA 'PRINCESS KAY'	PRINCESS KAY PLUM	B&B	1.5"
SYMBOL	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	
SHRUBS						
	BS	67	BERBERIS THUNBERGII 'MARIA'	SUNJOY GOLD PILLAR® JAPANESE BARBERRY	2 GAL	
	DL	12	DIERVILLA LONICERA	DWARF BUSH HONEYSUCKLE	3 GAL	
	RG	2	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	3 GAL	
	TN	24	TAXUS CUSPIDATA 'NOVA'	NOVA JAPANESE YEW	3 GAL	
	TT	6	TAXUS X MEDIA 'TAUNTONII'	TAUNTON'S YEW	3 GAL	
ORNAMENTAL GRASSES						
	CO	8	CALAMAGROSTIS X ACUTIFLORA 'OVERDAM'	OVERDAM FEATHER REED GRASS	1 GAL	
PERENNIALS						
	AA	3	ADIANTUM AETHIOPICUM	MAIDENHAIR FERN	1 GAL	
	HE	16	HOSTA X 'EMPRESS WU'	EMPRESS WU HOSTA	1 GAL	

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:

2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
888-742-6837
GreystoneConstruction.com
GREYSTONE CONSTRUCTION

PROJECT TITLE:
HIGH STAKES SHELL
2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.:	DESCRIPTION:	DATE:
1	PUD APPLICATION	04/25/2024

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.

NOT FOR CONSTRUCTION

MARK FISCHER
LICENSE NO.: 56541
DATE: 04/24/2024

PROJECT NO.: 193806452

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

ISSUE DATE: 04/25/2024
ISSUE NO.: 1
SHEET TITLE: LANDSCAPE PLAN
SHEET NO.: L-101

\\us2042-pwfs01\shared_projects\193806452\Dwl\5_DESIGN\1_CAD\3 PLANSHEETS\L-101 LANDSCAPE PLAN 06452.dwg

4/25/2024 1:25:53 PM

INSPECTION AND ACCEPTANCE

1. 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.
2. 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.
3. 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

1. UPON APPROVAL OF STAKING LOCATIONS CONTRACTOR SHALL EXCAVATE PLANTING HOLES CENTERED AT STAKED LOCATIONS.
2. DIG HOLES AS DETAILED AND TO A DIAMETER A MINIMUM OF TWO TIMES THE DIAMETER OF THE ROOT BALL OR CONTAINER.
3. ALL PLANTING AND SEEDING AREAS SHALL BE PREPARED PRIOR TO INSTALLATION ACTIVITIES WITH A HARLEY POWER BOX RAKE OR EQUAL TO PROVIDE A FIRM PLANTING BED FREE OF STICKS, RUBBISH, FOREIGN MATERIALS AND UNDESIRABLE PLANTS AND THEIR ROOTS. REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSIONS.
4. 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.
5. ROOT FLARE OF THE TREE MUST BE ABOVE FINISHED GRADE.
6. CUT ALL CORDS AND TWIN AND REMOVE WIRE BASKET AND BURLAP FROM TOP AND SIDES OF BALLS; RETAIN BURLAP ON BOTTOMS.
7. 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.
8. WHEN EXCAVATION IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL.
9. REPEAT WATERING UNTIL NO MORE IS ABSORBED. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
10. 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.
11. WATER EACH PLANT WITHIN 2 HOURS OF PLANTING.
12. ALL PLANTINGS TO BE MULCHED UNLESS OTHERWISE NOTED ON THE PLAN.
13. PLACE 3-INCH THICKNESS OF MULCH AROUND TREES AND SHRUBS WITHIN A PERIOD OF 48 HOURS AFTER THE SECOND WATERING.
14. DO NOT PLACE MULCH IN DIRECT CONTACT WITH TRUNKS OR STEMS.
15. UNLESS OTHERWISE NOTED/INDICATED, ALL PLANT BEDS SHALL RECEIVE 3" DEPTH LOCALLY AVAILABLE 1.5" BLACK GRANITE ROCK MULCH, OVER WEED MAT. SUBMIT MULCH SAMPLE FOR OWNER APPROVAL.
16. TREE SAUCER MULCH TO BE THREE INCHES (3") DEPTH NATURAL DOUBLE-SHRED HARDWOOD MULCH FOR TREES OUTSIDE OF PLANT BED, INSTALL PER TREE PLANTING DETAIL.

MAINTENANCE NOTES

1. 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.
2. BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING.
3. MAINTAIN PLANT MATERIAL INCLUDING WATERING FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. IT IS CONTRACTORS RESPONSIBILITY FOR COORDINATE WATERING.
4. TRIM, PRUNE, REMOVE CLIPPINGS AND DEAD OR BROKEN BRANCHES, AND TREAT PRUNED AREAS AND OTHER WOUNDS.
5. 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

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.

TURF RESTORATION NOTES

1. UNLESS OTHERWISE NOTED/INDICATED EDGE RESTRAINT BETWEEN PLANTING BEDS AND TURF SHALL BE BLACK COMMERCIAL GRADE STEEL LANDSCAPE EDGER, 1/8" THICKNESS. ANCHOR EVERY 18" ON-CENTER (MINIMUM). SUBMIT SAMPLE TO OWNER FOR APPROVAL.
2. THE ESTABLISHMENT PERIOD FOR TURF SHALL BEGIN IMMEDIATELY AFTER INSTALLATION, WITH THE APPROVAL OF THE OWNER, AND CONTINUE UNTIL THE DATE THAT THE OWNER PERFORMS A FINAL INSPECTION.
3. THE ESTABLISHMENT PERIOD FOR SODDED AREAS IS 1 YEAR.
4. FERTILIZER SHALL CONFORM TO MNDOT SPEC. 3881, TYPE 2 PHOSPHOROUS-FREE.
5. 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.
6. TOPSOIL SHALL BE IMPORTED AND SHALL CONFORM TO MNDOT SPEC 3877,2A COMMON TOPSOIL BORROW. 6" OF TOPSOIL SHALL BE PLACED IN ALL SODDED AREAS. INSTALLATION OF SOD SHALL OCCUR WITHIN ONE (1) WEEK OF COMPLETING THE GRADING.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR WATER DURING THE PLANTING ESTABLISHMENT PERIOD.
8. PLACE ALL SOD STRIPS WITH LONG EDGES PARALLEL TO THE CONTOURS, STAGGERING ALL JOINTS ALTERNATIVELY WITHOUT SPACE BETWEEN. SECURE THE SOD TO SLOPES 4:1 OR GREATER WITH BIODEGRADABLE ANCHOR SYSTEMS.
9. TURF SOD SHALL CONFORM TO MnDOT SPEC. 3878; SOD SPECIES COMPOSITION SHALL BE LOW MAINTENANCE TURF.

CODES AND INSPECTION

1. THE ENTIRE INSTALLATION SHALL FULLY COMPLY WITH ALL LOCAL AND STATE LAWS AND ORDINANCES AND WITH THE ESTABLISHED CODES ALLOCABLE THERETO.
2. 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

1. 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.
2. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
3. 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

1. 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.
2. 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

1. SCHEDULE AND COORDINATE WORK WITH OTHER TRADES TO FACILITATE WORK AND AVOID CONFLICTS IN CONSTRUCTION SEQUENCE AND EQUIPMENT INSTALLATION.
2. 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.

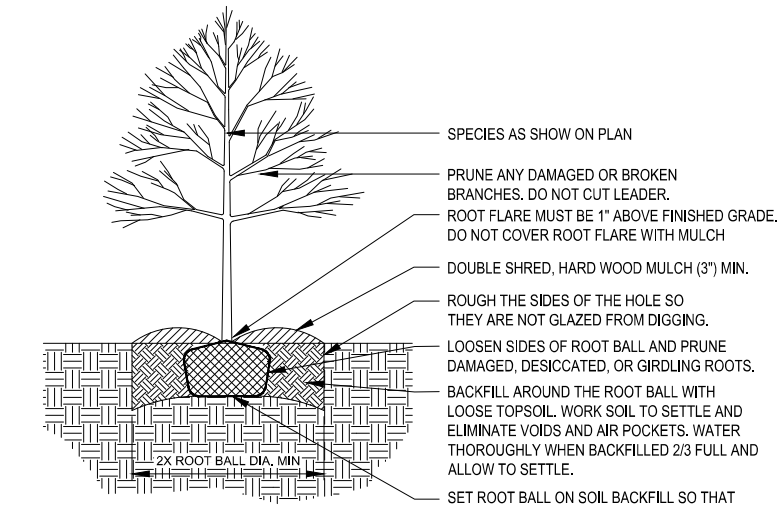
LANDSCAPE NOTES

1. PLANT MATERIAL SHALL BE PROVIDED IN THE QUANTITY, SIZE, GENUS, SPECIES, AND VARIETY AS CHOSEN BY THE OWNER/OWNER AS LISTED IN THE PLANT SCHEDULE.
2. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS STOCK, GROWN IN RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE AND FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS.
3. 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.
4. 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.
5. PROTECTION FROM EXTREMES IN EXPOSURE AND ROUGH HANDLING SHALL BE PROVIDED FOR ALL PLANT MATERIALS DURING TRANSPORT AND STORAGE.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO PLANTING SO THAT A MUTUALLY AGREEABLE TIME MAY BE ARRANGED FOR INSPECTION.
7. LAY OUT INDIVIDUAL TREE AND SHRUB LOCATIONS WITH STAKES CENTERED AT PROPOSED PLANTING LOCATIONS FOR APPROVAL BY OWNER.
8. DO NOT START PLANTING WORK UNTIL LAYOUT IS APPROVED BY THE OWNER.
9. 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.
10. ALL GRADED AREAS OF THE SITE THAT ARE DESIGNATED FOR SHRUBS, TREES AND PERENNIALS SHALL HAVE NO LESS THAN 18" OF IMPORTED TOP SOIL, MEETING MnDOT SPEC 3877.2B FOR LOAM TOPSOIL BORROW.

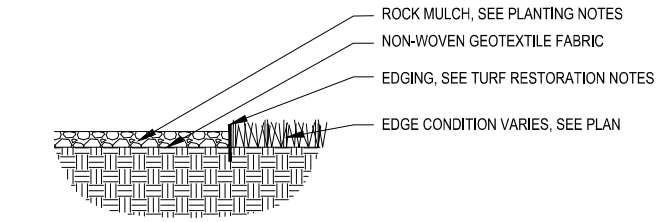
IRRIGATION CONTRACTORS RESPONSIBILITY

THE IRRIGATION SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

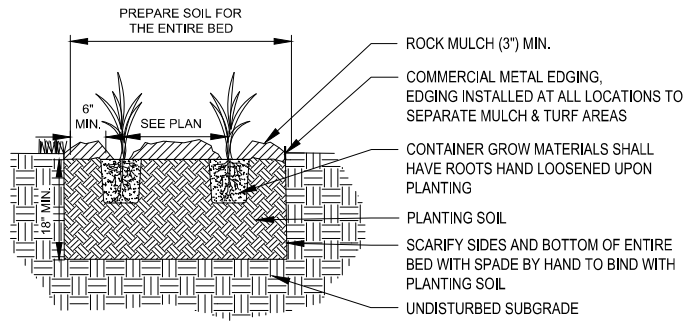
1. COORDINATION WITH ALL OTHER TRADES.
2. FIELD VERIFY EXISTING IRRIGATION SYSTEM AND CONTROLS IF AVAILABLE.
3. PROVIDE DETAILED DESIGN OF AN IRRIGATION SYSTEM TO INCLUDE ALL TURF SEED AND PLANT BED AREAS. DESIGN SHALL INCLUDE PIPE SIZING, HEAD SELECTION, LOCATIONS OF HEADS, ZONING, AND CONTROL SYSTEMS. APPROPRIATE EQUIPMENT SHALL BE SELECTED PER MANUFACTURERS RECOMMENDATIONS BASED ON AVAILABLE PRESSURE. 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.
4. 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.
5. TESTING OF THE COMPLETE IRRIGATION SYSTEM.
6. STARTUP AND ADJUSTMENT OF THE SYSTEM.
7. PROVIDE OWNER'S EMPLOYEES WITH OPERATIONAL TRAINING ONSITE AND SUBMIT OPERATION AND MAINTENANCE MANUALS FOR ALL COMPONENTS.
8. AS-BUILT DRAWINGS SHOWING THE LOCATION AND FEATURES OF ALL IRRIGATION COMPONENTS.



1 L-801 DECIDUOUS TREE PLANTING
NOT TO SCALE

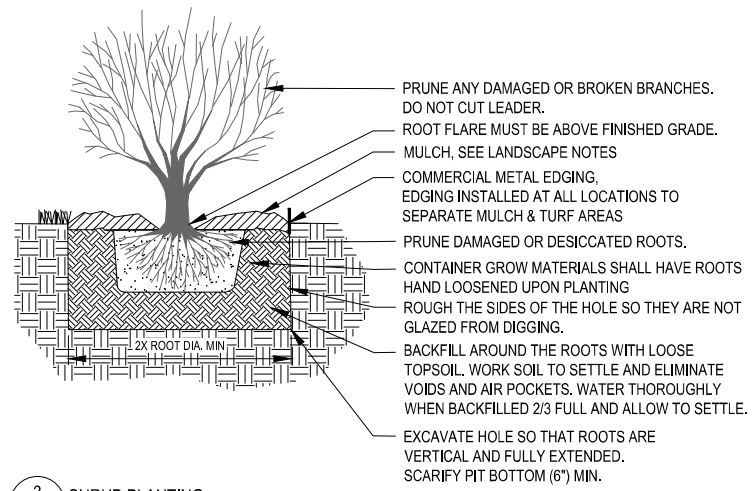


4 L-801 ROCK MULCH WITH EDGER
NOT TO SCALE



2 L-801 SHRUB / PERENNIAL PLANTING
NOT TO SCALE

Add soil compaction maximum of 200 psi / 80% of standard proctor.



3 L-801 SHRUB PLANTING
NOT TO SCALE

Stantec
1 CARLSON PARKWAY NORTH
SUITE 100
PLYMOUTH, MN 55447
PHONE: 763-479-4200
WWW.STANTEC.COM

CLIENT:
2995 Winners Circle Drive, Suite 200
Shakopee, MN 55379
888-742-6837
GreystoneConstruction.com
GREYSTONE CONSTRUCTION

PROJECT TITLE:
HIGH STAKES SHELL
2941 WINNERS CIRCLE DRIVE
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.	DESCRIPTION	DATE
1	PUD APPLICATION	04/25/2024

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.
NOT FOR CONSTRUCTION
MARK ROMER
LICENSE NO.: 56541
DATE: 04/24/2024

PROJECT NO.: 193806452

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

ISSUE DATE: 04/25/2024
ISSUE NO.: 1
SHEET TITLE: LANDSCAPE DETAILS
SHEET NO.: L-102

\\us3240-pgfs01\stanext_projects\193806452\Div5_DESIGN\1_CADD\ PLANSHEETS\L-101 LANDSCAPE PLAN (6452.dwg