

## STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

### 1. GENERAL

THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) REGULATES STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY DISTURBING LAND EQUAL TO OR GREATER THAN ONE ACRE THROUGH A GENERAL PERMIT (PERMIT NO. MN R100001) AUTHORIZING THE DISCHARGE OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO WATERS OF THE STATE IN COMPLIANCE WITH THE CLEAN WATER ACT AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) PROGRAM. THE GENERAL PERMIT (PERMIT) REQUIRES THE DEVELOPMENT AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP IS A COMBINATION OF NARRATIVE, PLANS SHEETS, AND STANDARD DETAIL SHEETS THAT ADDRESS THE FORESEEABLE CONDITIONS AT ANY STAGE IN THE CONSTRUCTION OR POST-CONSTRUCTION ACTIVITIES.

### 2. ADMINISTRATIVE REQUIREMENTS

- A. **RESPONSIBLE PARTIES:** THE OWNER AND GENERAL CONTRACTOR (CONTRACTOR) ARE CO-PERMITTEES OF THE PERMIT AND ARE JOINTLY RESPONSIBLE FOR COMPLIANCE WITH TERMS AND CONDITIONS OF THE PERMIT. OBTAIN A COPY OF THE PERMIT AND COMPLY WITH PARTS II.B, II.C, III.B-F, IV, V, AND APPLICABLE CONSTRUCTION ACTIVITY REQUIREMENTS FOUND IN APPENDIX A, PART C OF THE PERMIT. VERIFY THAT PERMIT REQUIREMENTS ARE SATISFIED AND COMPLETE THE BLANKS ON THIS SWPPP SHEET.
- B. **PERMIT APPLICATION:** THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE PERMIT APPLICATION ON-LINE AND PAYING THE APPLICATION FEE. OWNER AND CONTRACTOR MUST BOTH SIGN THE APPLICATION. OBTAIN A COPY OF THE PERMIT AND APPLY ON-LINE AT THE MPCA CONSTRUCTION STORM WATER WEBSITE: <http://www.pca.state.mn.us/water/stormwater/stormwater-c.html>.
- C. **PERMIT COVERAGE:** PERMIT COVERAGE TYPICALLY BECOMES EFFECTIVE SEVEN (7) CALENDAR DAYS AFTER THE ELECTRONIC SUBMITTAL DATE. DO NOT BEGIN LAND DISTURBING CONSTRUCTION ACTIVITIES UNTIL PERMIT COVERAGE IS EFFECTIVE. THE START OF ANY LAND DISTURBING ACTIVITIES SIGNIFIES THAT THE CONTRACTOR IS ASSUMING RESPONSIBILITY FOR PERMIT COVERAGE AND HAS COMPLIED WITH PERMIT REQUIREMENTS.
- D. **NOTIFICATION OF COVERAGE:** THE CONTRACTOR WILL RECEIVE A NOTIFICATION OF COVERAGE FROM THE MPCA (E.G., VIA EMAIL, ONLINE NOTIFICATION, OR LETTER). KEEP OR POST A COPY OF THE NOTIFICATION OF COVERAGE WITH THE SWPPP AT THE PROJECT SITE. PROVIDE COPIES TO THE OWNER AND ENGINEER.
- E. **CHANGE OF COVERAGE FOR NEW OWNER OR NEW OPERATOR (CONTRACTOR):** FOR A NEW OWNER OR OPERATOR, THE CURRENT OWNER, AND NEW OWNER OR OPERATOR, MUST SUBMIT A PERMIT MODIFICATION FORM PRIOR TO THE NEW OWNER OR OPERATOR COMMENCING CONSTRUCTION ACTIVITY. CONTACT THE MPCA AT 800-657-3864 FOR THIS FORM. THE CURRENT OWNER MUST ALSO SUBMIT A NOTICE OF TERMINATION (NOT) FORM AS NOTED BELOW WHEN THE OWNERSHIP OF THE PROPERTY CHANGES, AS NOTED BELOW.
- F. **TERMINATION OF COVERAGE:** THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER AND TERMINATING PERMIT COVERAGE BY COMPLETING AND SUBMITTING A NOTICE OF TERMINATION (NOT) FORM TO THE MPCA. A NOTICE OF TERMINATION MUST BE SUBMITTED WITHIN 30 DAYS AFTER FINAL STABILIZATION HAS BEEN ESTABLISHED FOR THE SITE AND CONSTRUCTION ACTIVITY IS COMPLETE, OR WHEN THE OWNER OR OPERATOR CHANGES. COMPLIANCE WITH PERMIT REQUIREMENTS IS REQUIRED UNTIL SUBMISSION OF A NOTICE OF TERMINATION.
- G. **RECORD RETENTION:** THE CONTRACTOR SHALL KEEP A COPY OF THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS ON SITE DURING CONSTRUCTION. THIS DOCUMENTATION MUST BE KEPT ON FILE FOR 3 YEARS AFTER SUBMITTAL OF THE NOTICE OF TERMINATION. COORDINATE TRANSFER OF THIS DOCUMENTATION TO THE OWNER AT PROJECT COMPLETION.
- H. **CHANGES (AMENDMENTS) TO SWPPP:** UPDATE AND DOCUMENT CHANGES TO THE SWPPP AS NECESSARY DURING CONSTRUCTION, AND AS REQUIRED BY THE PERMIT ACCORDING TO PART III.B OF THE PERMIT.

### 3. CONSTRUCTION ACTIVITY REQUIREMENTS

- A. **GENERAL:** COMPLY WITH PART IV.A OF THE PERMIT TO IMPLEMENT THE SWPPP AND THE REQUIREMENTS OF THE PERMIT. THE BEST MANAGEMENT PRACTICES (BMPs) IDENTIFIED IN THE SWPPP AND PERMIT MUST BE SELECTED, INSTALLED, AND MAINTAINED IN AN APPROPRIATE AND FUNCTIONAL MANNER IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, MANUFACTURER RECOMMENDATIONS, AND ACCEPTED ENGINEERING PRACTICES.
- B. **EROSION PREVENTION PRACTICES:** PLAN FOR AND IMPLEMENT CONSTRUCTION PRACTICES TO SATISFY PART IV.B OF THE PERMIT. STABILIZE EXPOSED SOIL AREAS AS SOON AS POSSIBLE, BUT IN NO CASE LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. AMEND SWPPP BY INDICATING THE LOCATION OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOIL AREAS.
- C. **SEDIMENT CONTROL PRACTICES:** PLAN FOR AND IMPLEMENT CONSTRUCTION PRACTICES THAT MINIMIZE SEDIMENT FROM ENTERING SURFACE WATERS, INCLUDING BUT NOT LIMITED TO, CURB AND GUTTER SYSTEMS AND STORM SEWER INLETS TO SATISFY PART IV.C OF THE PERMIT. PROVIDE TEMPORARY SEDIMENTATION BASINS WHERE 10 OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION AS APPROVED BY LHB (SEE PART III.C OF THE PERMIT FOR BASIN REQUIREMENTS). IF TEMPORARY SEDIMENTATION BASINS ARE INFEASIBLE, DOCUMENT THIS DETERMINATION AND THE SUBSTITUTE BMPs IN THE SWPPP.
- D. **DEWATERING AND BASIN DRAINING:** COMPLY WITH PART IV.D OF THE PERMIT. ENSURE THAT ALL WATER FROM DEWATERING OR BASIN DRAINING ACTIVITIES IS DISCHARGED IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS, EROSION IN RECEIVING CHANNELS OR DOWNSLOPE PROPERTIES, OR INUNDATION IN WETLANDS CAUSING SIGNIFICANT ADVERSE IMPACTS TO THE WETLANDS. ANY TURBID OR SEDIMENT LADEN DISCHARGE WATER MUST BE ADEQUATELY TREATED BY DISCHARGING TO A SEDIMENTATION BASIN WHENEVER FEASIBLE, OR TREATED WITH APPROPRIATE BMPs IF THE WATER CANNOT BE DISCHARGED TO A SEDIMENT BASIN. THE CONTRACTOR MUST VISUALLY CHECK THE TREATED STORMWATER PRIOR TO DISCHARGING TO RECEIVING WATERS TO ENSURE ADEQUATE TREATMENT IS BEING MET AND THAT THE DISCHARGE POINTS ARE ADEQUATELY PROTECTED FROM EROSION AND SCOUR. BACKWASH WATER FROM FILTRATION MUST BE INCORPORATED INTO THE SITE IN A NON-EROSIVE MANNER, OR DISCHARGED TO THE SANITARY SEWER WITH PERMISSION FROM THE SANITARY SEWER AUTHORITY.
- E. **INSPECTIONS AND MAINTENANCE:** COMPLY WITH PART IV.E OF THE PERMIT.
- F. **POLLUTION PREVENTION MANAGEMENT MEASURES:** COMPLY WITH PART IV.F OF THE PERMIT. NOTE: PREPARE AND INCLUDE A FUELING OPERATION PLAN AND EMERGENCY SPILL PLAN WITH THE SWPPP AS REQUIRED BY THIS PART. AMEND SWPPP BY INDICATING THE LOCATION OF POTENTIAL POLLUTANT GENERATING ACTIVITIES ON SITE MAPS.
- G. **FINAL STABILIZATION:** ESTABLISH FINAL STABILIZATION FOR THE SITE AS DESCRIBED IN PART IV.G OF THE PERMIT. SPECIFIC CONDITIONS REQUIRED FOR FINAL STABILIZATION INCLUDE:
- SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND SOILS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OVER THE ENTIRE PERVIOUS SURFACE AREA, OR OTHER EQUIVALENT MEANS NECESSARY TO PREVENT SOIL FAILURE UNDER EROSION CONDITIONS.
  - PERMANENT STORMWATER MANAGEMENT SYSTEMS ARE OPERATIONAL AND SEDIMENT IS REMOVED FROM TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND CONVEYANCE SYSTEMS, AND DITCHES ARE STABILIZED WITH FINAL COVER.
  - ALL TEMPORARY SYNTHETIC AND STRUCTURAL EROSION PREVENTION AND SEDIMENT CONTROL BMPs ARE REMOVED. BMPs DESIGNED TO DECOMPOSE MAY BE LEFT IN PLACE.
  - FOR RESIDENTIAL CONSTRUCTION, THE STRUCTURE(S) ARE FINISHED, TEMPORARY EROSION PROTECTION AND PERIMETER CONTROL IS COMPLETED, AND THE RESIDENCE SOLD TO THE HOMEOWNER WHO HAS BEEN GIVEN THE MPCA'S "HOMEOWNER FACT SHEET" REGARDING THE NEED FOR PERMANENT COVER.
  - DISTURBED AGRICULTURAL LAND IS RETURNED TO ITS PRECONSTRUCTION AGRICULTURAL USE.

### 4. SWPPP RESPONSIBILITIES (THE OWNER IS RESPONSIBLE FOR PREPARING AND AMENDING THE SWPPP).

#### A. ON BEHALF OF THE OWNER, THE FOLLOWING PERSON PREPARED THE SWPPP AND IS TRAINED IN SWPPP DESIGN:

NAME: MELISSA WHITE, PE, LEED AP BD+C / LHB, INC.  
 TRAINING DATE/INSTRUCTOR: CERTIFICATION 10/13/16 (EXPIRES 2020) / JOHN CHAPMAN, U OF M  
 TRAINING CONTENT/HOURS: DESIGN OF CONSTRUCTION SWPPP RECERTIFICATION / 8 HOUR

#### B. ON BEHALF OF THE OWNER, THE CONTRACTOR WILL OVERSEE SWPPP IMPLEMENTATION, REVISE AND AMEND THE SWPPP, PERFORM INSPECTIONS, AND SUPERVISE THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPs BEFORE AND DURING CONSTRUCTION. THE FOLLOWING CONTRACTOR REPRESENTATIVE IS TRAINED TO PERFORM THESE DUTIES AND WILL ASSUME THESE RESPONSIBILITIES:

NAME: \_\_\_\_\_  
 TRAINING DATE/INSTRUCTOR: \_\_\_\_\_  
 TRAINING CONTENT/HOURS: \_\_\_\_\_

#### C. THE OWNER IS RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM. THE FOLLOWING PERSON IS DESIGNATED TO PERFORM THESE DUTIES:

NAME/TITLE: \_\_\_\_\_  
 MAINTENANCE PLAN: NA

#### D. CHAIN OF RESPONSIBILITY: THE GENERAL CONTRACTOR IS IN CHARGE OF ALL SWPPP IMPLEMENTATION ON THE CONSTRUCTION SITE AND IS ACCOUNTABLE FOR SUBCONTRACTORS AND OTHER CONTRACTORS WORKING ON SITE AND THEIR COMPLIANCE WITH GENERAL STORMWATER PERMIT AND SWPPP REQUIREMENTS. NOTIFY THE OWNER OF ANY AMENDMENT NEEDED TO THE SWPPP.

### 5. REGULATORY AGENCIES AND PERMITS

#### A. COMPLY WITH REQUIREMENTS OF ALL REGULATORY AGENCIES AND PERMITS HAVING JURISDICTION DURING CONSTRUCTION ACTIVITIES. THE FOLLOWING ADDITIONAL REGULATORS AND PERMITS ARE KNOWN TO HAVE SITE JURISDICTION:

- CITY OF BLAINE
- COON CREEK WATERSHED DISTRICT

### 6. DESCRIPTION OF THE CONSTRUCTION ACTIVITY / SWPPP COMPONENTS

#### A. NARRATIVE:

- PROJECT SUMMARY: THE PROJECT INVOLVES SOIL CORRECTION IN PREPARATION OF THE FUTURE REDEVELOPMENT OF THE EXISTING 11-14 SOCCER FIELDS ON THE NATIONAL SPORTS CENTER PROPERTY WITH A PROJECT AREA OF 3.5 ACRES. SPECIFIC WORK INCLUDES:
  - REMOVAL OF EXISTING GRASS.
  - SOIL CORRECTION - 2 TO 5 FEET PEAT MATERIAL REMOVED AND REPLACED WITH SAND.
  - TEMPORARY SEEDING
- TIMING FOR INSTALLATION OF EROSION & SEDIMENTATION BMPs AND PERMANENT STORMWATER MANAGEMENT SYSTEMS, IN GENERAL SEQUENTIAL ORDER FROM FIRST TO LAST:
  - INLET PROTECTION FOR EXISTING INLETS / SILT FENCE / DELINEATION AREAS NOT TO BE DISTURBED / ROCK CONSTRUCTION ENTRANCE / TEMPORARY SEDIMENTATION BASIN: PROVIDE PRIOR TO CONSTRUCTION; MAINTAIN DURING CONSTRUCTION.
  - SILT FENCE AROUND STOCKPILES: DURING CONSTRUCTION.
  - PORTABLE SEDIMENT CONTAINMENT SYSTEMS FOR TREATING WATER FROM DEWATERING OPERATIONS: PROVIDE DURING CONSTRUCTION.
  - SOIL CORRECTION.
  - VEGETATIVE COVER: AFTER SOIL CORRECTION ACTIVITIES ARE COMPLETE.
  - REMOVAL OF TEMPORARY BMPs: TO REMAIN IN PLACE FOR FUTURE SPORTS DOME CONSTRUCTION. REMOVE TEMPORARY BMPs IF SPORTS DOME PROJECT WILL NOT START CONSTRUCTION WITHIN 6 MONTHS OF SOIL CORRECTION ACTIVITIES.

#### 3) IMPERVIOUS SURFACE AREAS / WATER QUALITY VOLUME:

- PRE-CONSTRUCTION IMPERVIOUS: 0 ACRES
- POST CONSTRUCTION IMPERVIOUS: 0 ACRES
- NET NEW IMPERVIOUS: 0 ACRES
- WATER QUALITY VOLUME: NA
- REASON WATER QUALITY VOLUME CANNOT BE INFILTRATED (PER PART III.D.1.): NA
- ACTUAL WATER QUALITY VOLUME RETAINED ON-SITE / METHOD OF RETENTION: NA
- REMAINDER OF WATER QUALITY VOLUME AND ALTERNATIVE TREATMENT METHOD: NA

#### 4) CHEMICAL TREATMENT SYSTEMS FOR ENHANCING THE ON-SITE SEDIMENTATION PROCESS AND HOW COMPLIANCE WILL BE ACHIEVED PER PART IV.C.10 OF THE PERMIT:

NA

#### 5) DOCUMENTATION OF INFEASIBILITY FOR OBTAINING RIGHT-OF-WAY FOR PERMANENT STORMWATER MANAGEMENT SYSTEMS: NA

#### 6) STORMWATER POLLUTION MITIGATION MEASURES IDENTIFIED IN ENVIRONMENTAL REVIEW OR OTHER REQUIRED REVIEW: NA

#### 7) MEASURES TO ASSURE COMPLIANCE WITH SURFACE AND GROUNDWATER STANDARDS IN KARST AREAS: NA

### B. PLAN SHEETS:

- SWPPP: THIS SHEET, INCLUDING DOCUMENTATION DESCRIBED AND REFERENCED HEREIN.
- TEMPORARY BMPs / QUANTITIES / LOCATIONS OF AREAS NOT TO BE DISTURBED / SOIL TYPES: SEE SHEET C1.02
- PERMANENT BMPs: SEE SHEET C1.03
- EXISTING GRADES, DRAINAGE PATTERNS, AREAS OF STEEP SLOPES: SEE SHEET C1.02
- FINAL GRADES, DRAINAGE PATTERNS, AREAS OF STEEP SLOPES: SEE SHEET C1.03
- IMPERVIOUS SURFACING / METHODS OF FINAL STABILIZATION: SEE SHEET C1.03
- IDENTIFICATION OF SURFACE WATERS AND WETLANDS WITHIN 1 MILE OF SITE THAT RECEIVE RUNOFF FROM SITE: DITCH 41, SAND CREEK
- FOR THE ABOVE SURFACE WATERS, IDENTIFICATION OF SPECIAL OR IMPAIRED WATERS, INCLUDING ENVIRONMENTAL PROTECTION AGENCY (EPA) APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL) AND WASTE LOAD ALLOCATION (WLA) FOR POLLUTANTS OR STRESSORS IDENTIFIED IN APPENDIX A, PART B.10 OF THE PERMIT: NA
- FOR THE ABOVE SPECIAL OR IMPAIRED WATERS, DOCUMENTATION OF BMPs USED TO ADDRESS TMDL OR WLA REQUIREMENTS TO COMPLY WITH APPENDIX A OF THE PERMIT: NA
- CONSTRUCTION AREAS THAT ARE ADJACENT TO AND DRAIN TO MINNESOTA DEPARTMENT OF NATURAL RESOURCES (MDNR) PUBLIC WATERS PROMULGATED AS "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIMES: NA
- TOPSOIL PRESERVATION AREAS: SEE SHEET C1.02
- INFILTRATION AREAS TO BE PROTECTED FROM EXCESSIVE SOIL COMPACTION AND SEDIMENTATION / METHODS OF PROTECTION: NA

### C. STANDARD DETAIL SHEETS: C5.01

### D. MAINTENANCE PLAN: NA

### 7. STANDARDS SPECIFICATIONS FOR CONSTRUCTION:

UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS, ALL MATERIAL AND CONSTRUCTION REQUIREMENTS FOR TEMPORARY SEDIMENT CONTROL AND EROSION PREVENTION SHALL BE IN ACCORDANCE WITH THE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.



PERFORMANCE  
DRIVEN DESIGN.  
LHBcorp.com

701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

CLIENT:  
**NATIONAL SPORTS  
CENTER**

1700 105TH AVE NE  
BLAINE, MN 55449

THIS SQUARE APPEARS 12" x 12" ON  
FULL SIZE SHEETS.

NO	DATE	ISSUED FOR
01	07/13/2018	PERMIT

NO	DATE	REVISION
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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.

SIGNATURE: *Melissa M. White*

TYPED OR PRINTED NAME: MELISSA M. WHITE

DATE: 07/13/2018 REG. NO.: 46192

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PROJECT NAME:

**NSC SPORTS DOME  
SOIL CORRECTION**

DRAWING TITLE:

**STORMWATER  
POLLUTION PREVENTION  
PLAN (SWPPP)  
NARRATIVE**

FILE: ..180534600 Drawings\CI\Soil Correction Drawings\180534 C1.01 SWPPP.d

DRAWN BY: PAB

CHECKED BY: MMW

PROJ. NO: 180534

DRAWING NO:

**C1.01**





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DRIVEN DESIGN.**  
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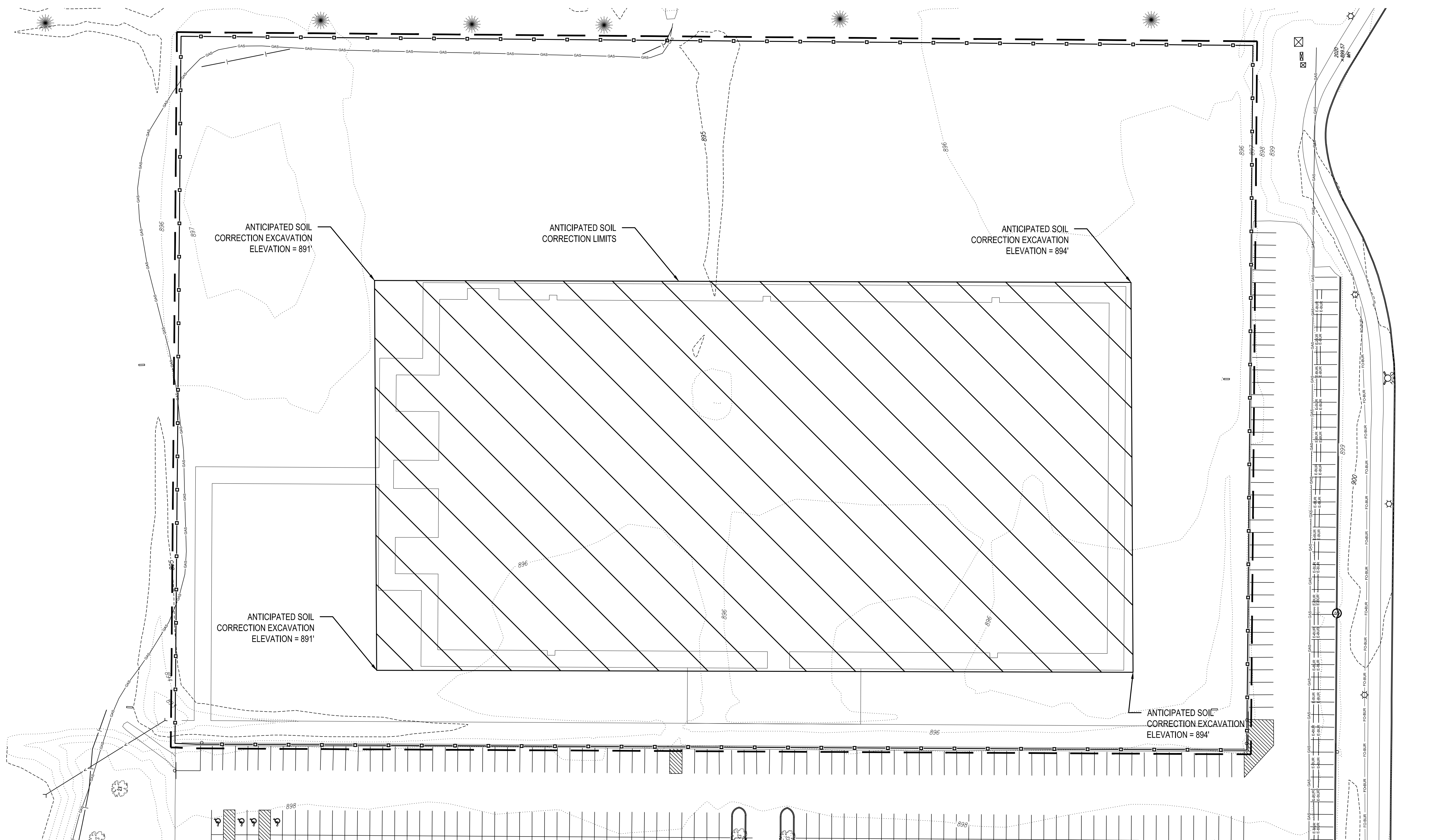
701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

**NOTES:**

1. ANTICIPATED SOIL CORRECTION VOLUME = 30,000 CY.
2. RESTORE GRADES TO EXISTING CONDITIONS WHEN SOIL CORRECTIONS HAVE BEEN COMPLETED.
3. ALL DISTURBED AREA SHALL BE SEEDED WITH A TEMPORARY COVER CROP OF WINTER WHEAT.



0 40' 80'



CLIENT:  
**NATIONAL SPORTS  
CENTER**

**1700 105TH AVE NE  
BLAINE, MN 55449**

THIS SQUARE APPEARS 1/2" x 1/2" ON  
FULL SIZE SHEETS.

NO	DATE	ISSUED FOR
01	07/13/2018	PERMIT

NO	DATE	REVISION
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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.

SIGNATURE: *Melissa M. White*

TYPED OR PRINTED NAME: MELISSA M. WHITE

DATE: 07/13/2018 REG. NO.: 46192

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PROJECT NAME:  
**NSC SPORTS DOME  
SOIL CORRECTION**

DRAWING TITLE:  
**SITE PLAN**

FILE: ..180534\600 Drawings\CS\Soil Correction Drawings\180534 C1.03 Site Plan.dwg  
DRAWN BY: JTC  
CHECKED BY: MMW  
PROJ. NO: 180534  
DRAWING NO:

**C1.03**

