

**ISG**

**ANOKA RAMSEY ATHLETIC ASSOCIATION**

NOTE: THE CLARITY OF THESE PLANS DEPEND UPON COLOR COPIES. IF THIS TEXT DOES NOT APPEAR IN COLOR, THIS IS NOT AN ORIGINAL PLAN SET AND MAY RESULT IN MISINTERPRETATION.

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.  
REESE A. SUDELGTGE

DATE: 12/15/2022 LIC. NO. 54243

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MITCHELL R. WORKMON

DATE: 12/15/2022 LIC. NO. 53748

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PROJECT  
**ANOKA RAMSEY ATHLETIC ASSOCIATION NEW DOME**

RAMSEY MINNESOTA

| REVISION SCHEDULE |             |    |
|-------------------|-------------|----|
| DATE              | DESCRIPTION | BY |
|                   |             |    |
|                   |             |    |
|                   |             |    |
|                   |             |    |

PROJECT NO. 22-26051  
FILE NAME 26051 C1-SWPPP  
DRAWN BY AJR  
DESIGNED BY AJR  
REVIEWED BY RAS  
ORIGINAL ISSUE DATE 12/16/2022  
CLIENT PROJECT NO. -

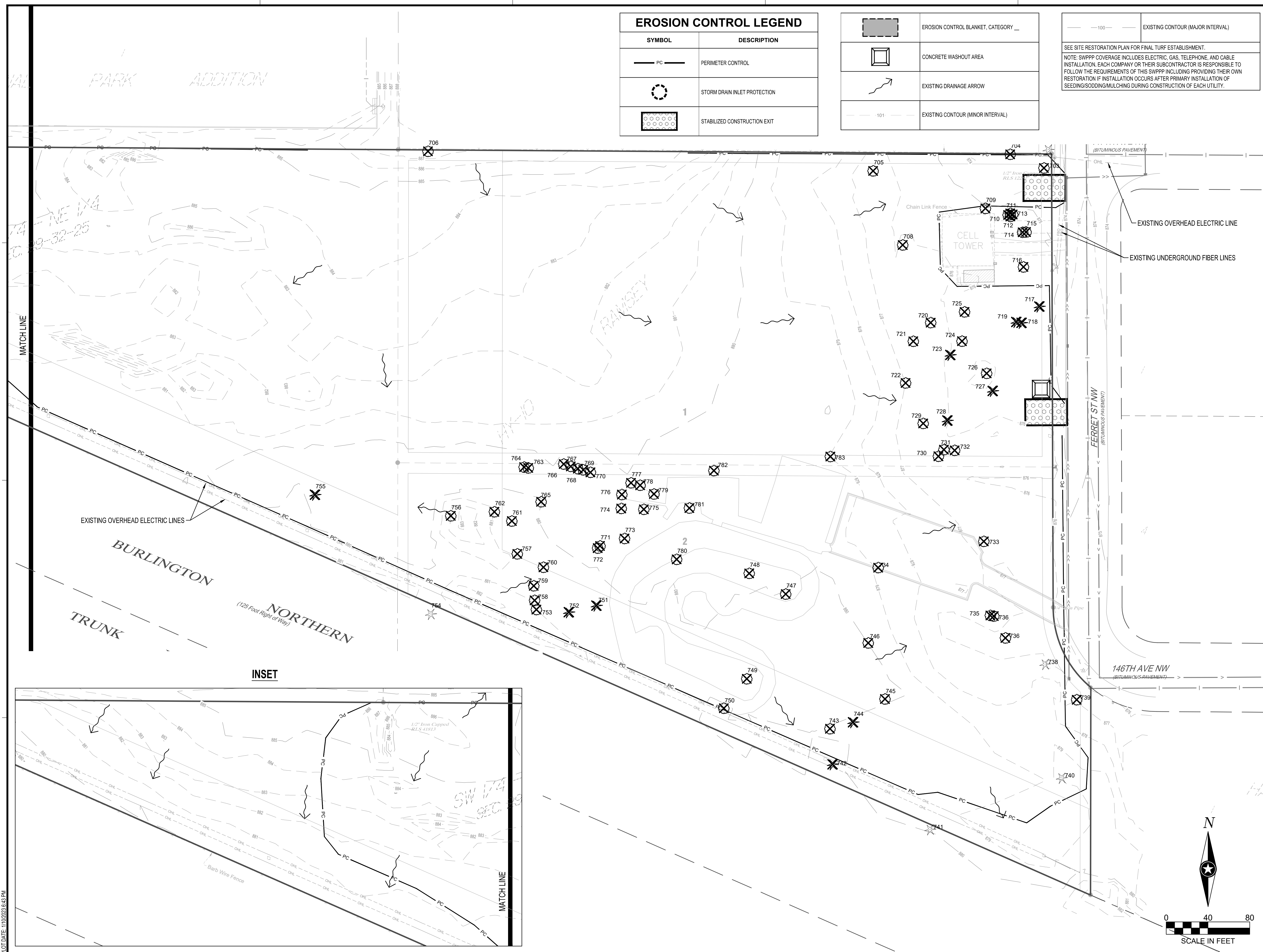
TITLE  
**SWPPP DETAILS**

SHEET  
**C1-20**

PRELIMINARY NOT FOR CONSTRUCTION

PLOT DATE: 11/10/2022 8:42 PM





**EROSION CONTROL LEGEND**

| SYMBOL | DESCRIPTION                  |
|--------|------------------------------|
| — PC — | PERIMETER CONTROL            |
| ⊗      | STORM DRAIN INLET PROTECTION |
| ⊠      | STABILIZED CONSTRUCTION EXIT |

|         |                                     |
|---------|-------------------------------------|
|         | EROSION CONTROL BLANKET, CATEGORY _ |
|         | CONCRETE WASHOUT AREA               |
|         | EXISTING DRAINAGE ARROW             |
| — 101 — | EXISTING CONTOUR (MINOR INTERVAL)   |

— 100 — EXISTING CONTOUR (MAJOR INTERVAL)

SEE SITE RESTORATION PLAN FOR FINAL TURF ESTABLISHMENT.

NOTE: SWPPP COVERAGE INCLUDES ELECTRIC, GAS, TELEPHONE, AND CABLE INSTALLATION. EACH COMPANY OR THEIR SUBCONTRACTOR IS RESPONSIBLE TO FOLLOW THE REQUIREMENTS OF THIS SWPPP INCLUDING PROVIDING THEIR OWN RESTORATION IF INSTALLATION OCCURS AFTER PRIMARY INSTALLATION OF SEEDING/SODDING/MULCHING DURING CONSTRUCTION OF EACH UTILITY.



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PROJECT

**ANOKA RAMSEY ATHLETIC ASSOCIATION NEW DOME**

RAMSEY MINNESOTA

| REVISION SCHEDULE |             |    |
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 CLIENT PROJECT NO. -

TITLE

**PRE-CONSTRUCTION SWPPP**

SHEET

**C1-30**

PLOT DATE: 11/02/2022 8:43 PM

PRELIMINARY NOT FOR CONSTRUCTION



| EROSION CONTROL LEGEND |                                     |
|------------------------|-------------------------------------|
| SYMBOL                 | DESCRIPTION                         |
|                        | EROSION CONTROL BLANKET, CATEGORY _ |
|                        | CONCRETE WASHOUT AREA               |
|                        | EXISTING DRAINAGE ARROW             |
|                        | PROPOSED DRAINAGE ARROW             |
|                        | STORM DRAIN INLET PROTECTION        |
|                        | STABILIZED CONSTRUCTION EXIT        |

|  |                                   |
|--|-----------------------------------|
|  | EXISTING CONTOUR (MINOR INTERVAL) |
|  | EXISTING CONTOUR (MAJOR INTERVAL) |
|  | PROPOSED CONTOUR (MINOR INTERVAL) |
|  | PROPOSED CONTOUR (MAJOR INTERVAL) |

|  |                                   |
|--|-----------------------------------|
|  | EXISTING CONTOUR (MINOR INTERVAL) |
|  | EXISTING CONTOUR (MAJOR INTERVAL) |
|  | PROPOSED CONTOUR (MINOR INTERVAL) |
|  | PROPOSED CONTOUR (MAJOR INTERVAL) |

SEE SITE RESTORATION PLAN FOR FINAL TURF ESTABLISHMENT.  
 CONTRACTOR IS RESPONSIBLE FOR PROVIDING PERIMETER CONTROL AROUND ANY TEMPORARY STOCKPILE LOCATIONS.  
 NOTE: SWPPP COVERAGE INCLUDES ELECTRIC, GAS, TELEPHONE, AND CABLE INSTALLATION. EACH COMPANY OR THEIR SUBCONTRACTOR IS RESPONSIBLE TO FOLLOW THE REQUIREMENTS OF THIS SWPPP INCLUDING PROVIDING THEIR OWN RESTORATION IF INSTALLATION OCCURS AFTER PRIMARY INSTALLATION OF SEEDING/SODDING/MULCHING DURING CONSTRUCTION OF EACH UTILITY.



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PROJECT  
**ANOKA RAMSEY ATHLETIC ASSOCIATION NEW DOME**

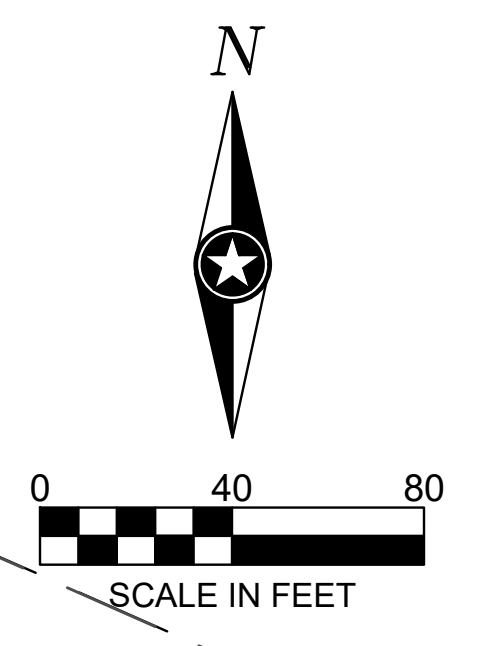
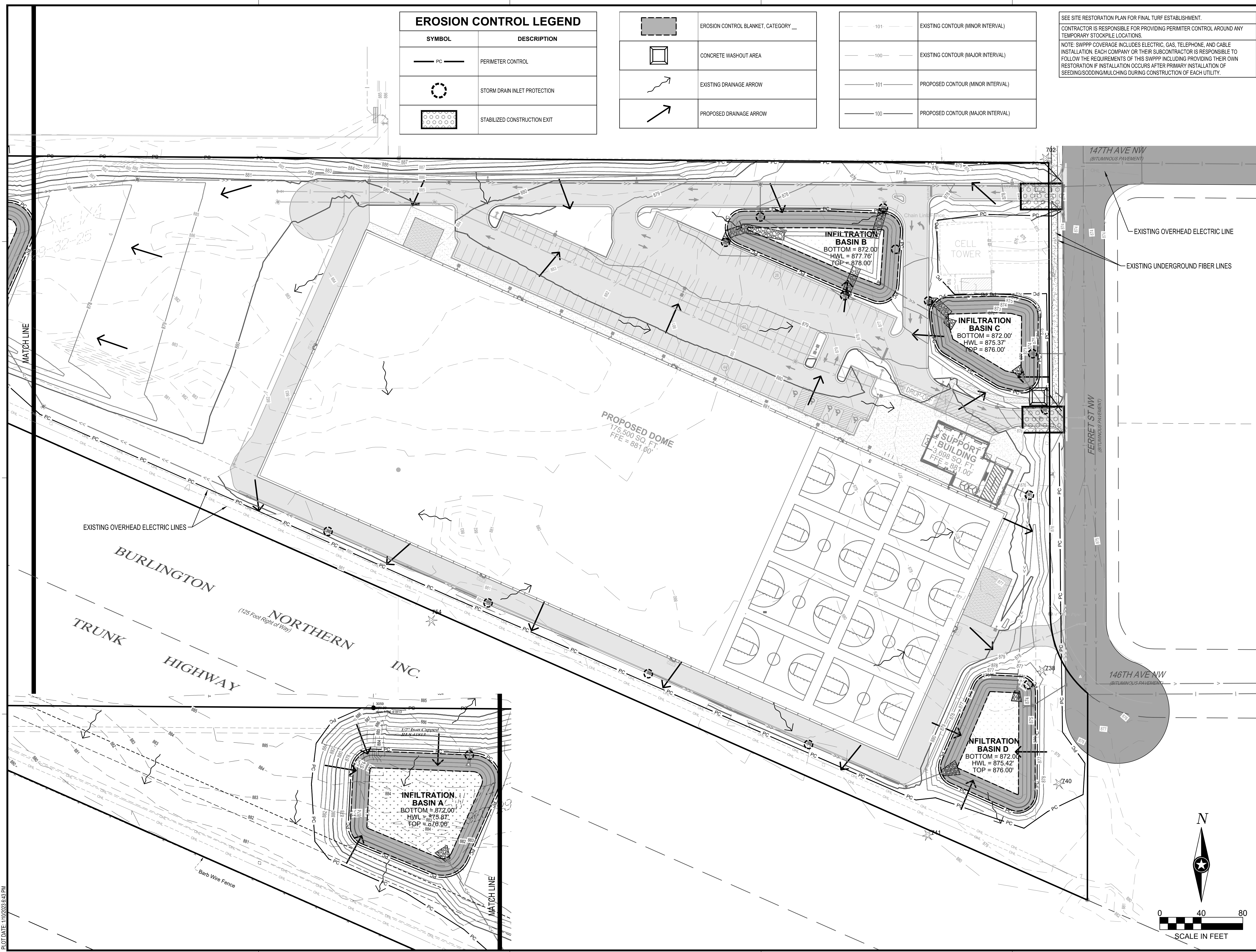
RAMSEY MINNESOTA

| REVISION SCHEDULE |             |    |
|-------------------|-------------|----|
| DATE              | DESCRIPTION | BY |
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PROJECT NO. 22-26051  
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 DRAWN BY AJR  
 DESIGNED BY AJR  
 REVIEWED BY RAS  
 ORIGINAL ISSUE DATE 12/16/2022  
 CLIENT PROJECT NO. -

TITLE  
**PROPOSED SWPPP**

SHEET  
**C1-40**



PLOT DATE: 11/02/2022 8:43 PM

PRELIMINARY NOT FOR CONSTRUCTION



**CITY LANDSCAPE REQUIREMENTS**

**E-3 EMPLOYMENT DISTRICT LANDSCAPE REQUIREMENTS:**

MINIMUM TREE CROWN COVER REQUIREMENTS:  
 IMPERVIOUS AREA: 258,688 SF  
 PERVIOUS AREA: 302,667 SF  
 RATIO OF IMPERVIOUS AREA: 46.08% / 0.4608  
 TOTAL AREA: 561,355 SF

MULTIPLY THE IMPERVIOUS AREA/SITE AREA RATIO BY THE SQUARE FOOTAGE OF PERVIOUS AREA: 0.4608 X 302,667 = 139,468 REQUIRED / 139,468 PROPOSED  
 NOTE: SEE SHEET C5-20 FOR DETAILS

THE FOLLOWING FORMULA SHALL BE UTILIZED TO DETERMINE THE AVERAGE CANOPY COVER FOR ACCEPTABLE SPECIES:  
 $[(\text{MINIMUM} + \text{MAXIMUM SPREAD}) \times 4] \times \pi \times (0.65 \text{ FOR PREFERRED SPECIES}) = 114,806$

**ROAD FRONTAGE REQUIREMENTS:**  
 FOR EVERY 35 FEET OF PUBLIC ROAD FRONTAGE, ONE OVERSTORY TREE SHALL BE PLANTED ADJACENT TO THE ROAD RIGHT-OF-WAY ON PRIVATE PROPERTY. THESE PLANTING ARE CREDITED TOWARD THE MINIMUM PLANTING REQUIREMENTS.  
 • 522 LF OF ROAD FRONTAGE / 35 LF = 15 TREES REQUIRED / 15 TREES PROPOSED

**PARKING LOT REQUIREMENTS:**  
 1 TREE PER EVERY TEN PARKING SPACES.  
 • 153 PARKING SPACES / 10 = 15 TREES REQUIRED / 15 TREES PROVIDED

EVERY OVERSTORY TREE PLANTED SHALL BE PROVIDED WITH A PLANTING AREA PF AT LEAST 162 SF.

**BUFFERYARD REQUIREMENTS:**  
 E-3 BUFFERYARD WIDTH: 35 FEET  
 % INCREASE IN PLANTINGS: 20%

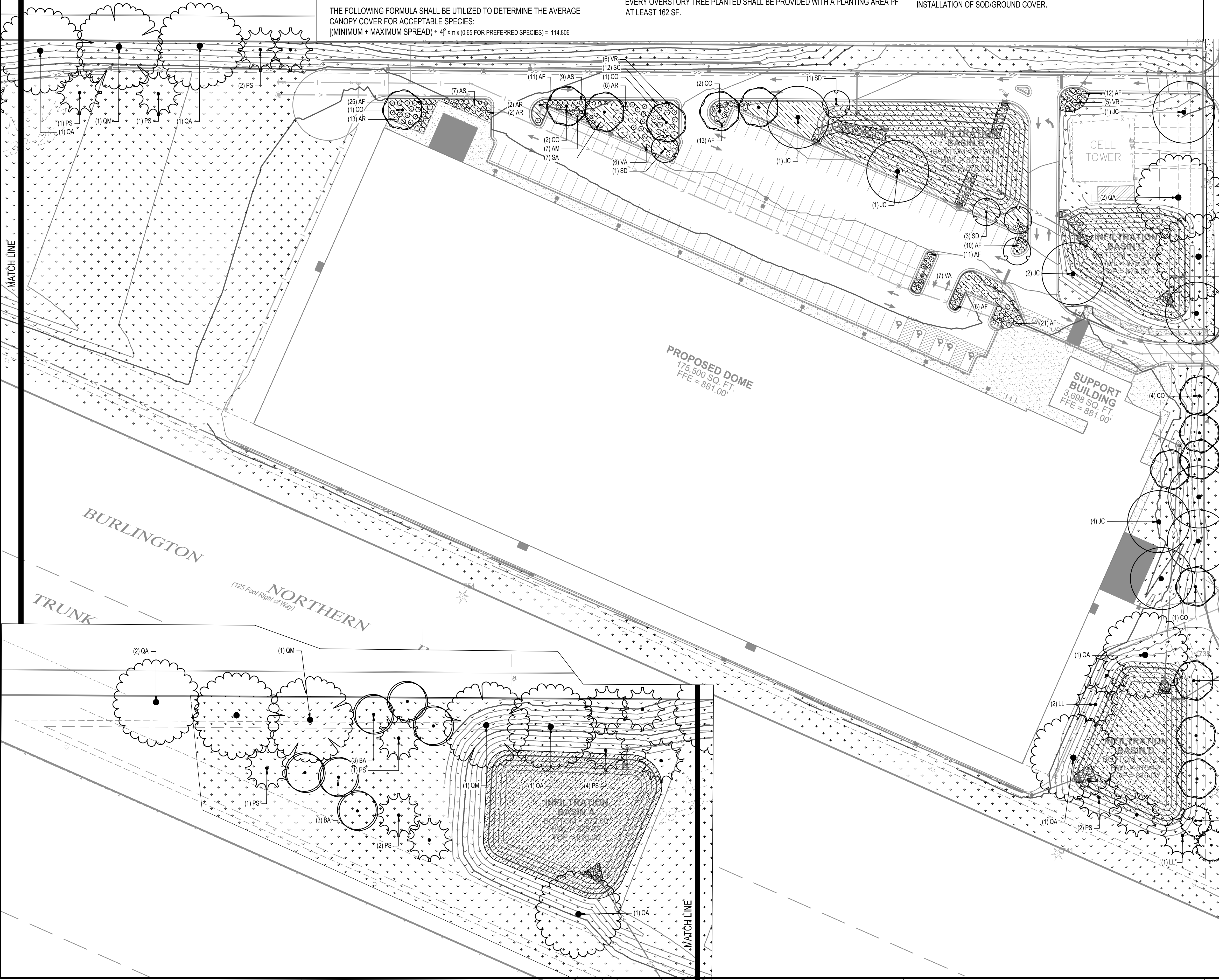
ACCEPTABLE GROUND COVER MATERIAL INCLUDES SOD, MULCH AND OTHER NATURAL GROUND COVER. USE OF LANDSCAPE ROCK AND PLASTIC UNDERLAYMENT IS PROHIBITED.

ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT OTHERWISE IMPROVED WITH IMPERVIOUS SURFACING SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL WITH NO MORE THAN 35% SAND CONTENT. TOPSOIL INSPECTION IS REQUIRED PRIOR TO INSTALLATION OF SOD/GROUND COVER.

**PLANT SCHEDULE**

| EVERGREEN TREES  | QTY | BOTANICAL / COMMON NAME                               | SIZE      | ROOT  |
|------------------|-----|---|-----------|-------|
| LL               | 3   | LARIX LARICINA<br>TAMARACK                            | 6' HT MIN | B & B |
| PB               | 2   | PICEA GLAUCA DENSATA<br>BLACK HILLS SPRUCE            | 6' HT MIN | B & B |
| PS               | 14  | PINUS STROBUS<br>WHITE PINE                           | 6' HT MIN | B & B |
| OVERSTORY TREES  | QTY | BOTANICAL / COMMON NAME                               | SIZE      | ROOT  |
| BA               | 6   | BETULA ALLEGHANIENSIS<br>YELLOW BIRCH                 | 2.5' CAL  | B & B |
| CO               | 14  | CELTIS OCCIDENTALIS<br>COMMON HACKBERRY               | 2.5' CAL  | B & B |
| JC               | 9   | JUGLANS CINEREA<br>BUTTERNUT                          | 2.5' CAL  | B & B |
| QA               | 10  | QUERCUS ALBA<br>WHITE OAK                             | 2.5' CAL  | CONT  |
| QM               | 3   | QUERCUS MACROCARPA<br>BURR OAK                        | 2.5' CAL  | B & B |
| SD               | 5   | SORBUS DECORA<br>SHOWY MOUNTAIN ASH                   | 2.5' CAL  | B & B |
| DECIDUOUS SHRUBS | QTY | BOTANICAL / COMMON NAME                               | SIZE      | ROOT  |
| AR               | 25  | AMELANCHIER ALNIFOLIA 'REGENT'<br>REGENT SERVICEBERRY | 2' HT MIN | CONT  |
| AS               | 16  | AMELANCHIER SANGUINEA<br>ROUNDLEAF SERVICEBERRY       | 2' HT MIN | CONT  |
| AF               | 109 | AMORPHA FRUTICOSA<br>FALSE INDIGO                     | 2' HT MIN | CONT  |
| AM               | 7   | ARONIA MELANOCARPA<br>BLACK CHOCOBERRY                | 2' HT MIN | CONT  |
| SA               | 7   | SHEPHERDIA ARGENTEA<br>SILVER BUFFALO BERRY           | 2' HT MIN | CONT  |
| SC               | 12  | SHEPHERDIA CANADENSIS<br>RUSSETT BUFFALO BERRY        | 2' HT MIN | CONT  |
| VR               | 11  | VIBURNUM RAPINESOLIANUM<br>DOWNY ARROWWOOD            | 2' HT MIN | CONT  |
| VA               | 13  | VIBURNUM TRILOBUM<br>AMERICAN CRANBERRYBUSH           | 2' HT MIN | CONT  |

| MULCH    | QTY        | BOTANICAL / COMMON NAME                    |
|----------|------------|--|
|          | 9,595 SF   | DOUBLE SHREDDED WOOD MULCH (NATURAL COLOR) |
| SEED MIX | QTY        | DESCRIPTION                                |
|          | 25,498 SF  | EAST INFILTRATION BASIN SEED MIX           |
|          | 21,393 SF  | WEST INFILTRATION BASIN SEED MIX           |
| SOD      | QTY        | DESCRIPTION                                |
|          | 185,113 SF | MNDOT SOD 25-131 (TURF)                    |
| EDGER    | QTY        | DESCRIPTION                                |
|          | 40 LF      | POLYVINYL EDGER (BLACK COLOR)              |



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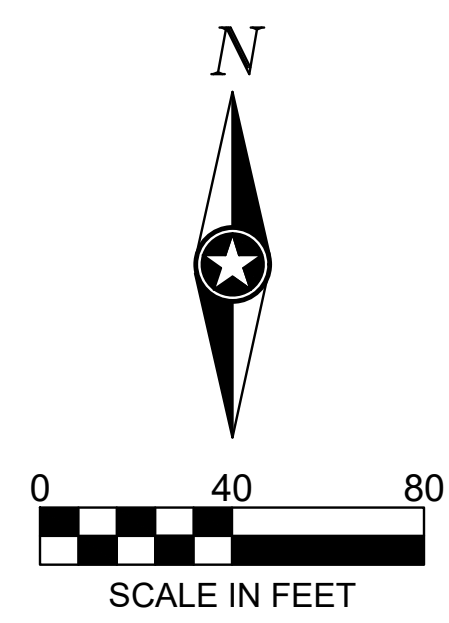
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|---------------------|---------------|
| PROJECT NO.         | 22-26051      |
| FILE NAME           | 26051 CS-LAND |
| DRAWN BY            | AJR           |
| DESIGNED BY         | AJR           |
| REVIEWED BY         | RAS           |
| ORIGINAL ISSUE DATE | 12/16/2022    |
| CLIENT PROJECT NO.  | -             |

TITLE  
**PLANTING AND RESTORATION PLAN**

SHEET  
**C5-10**



PLOT DATE: 11/02/2023 7:04 PM

**PRELIMINARY NOT FOR CONSTRUCTION**