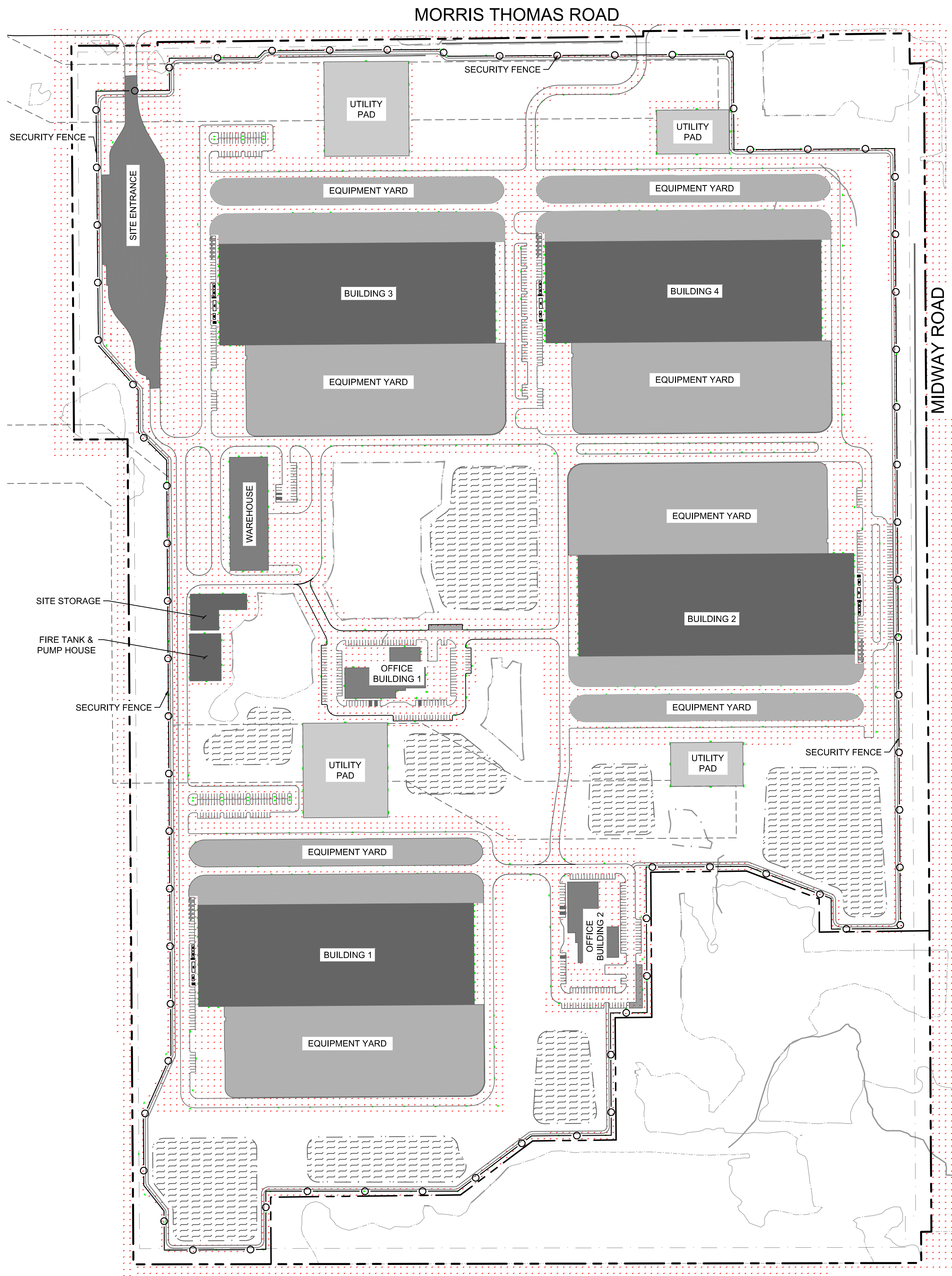


# **Appendix G:** *Landscaping and Lighting Plans*

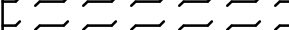
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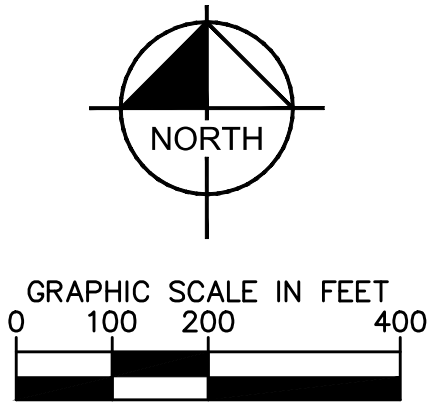


| LIGHTING FIXTURE SCHEDULE |                                                                                                                                                                                                                                                   |          |              |                                                                                |      |         |               |         |             |          |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|--------------------------------------------------------------------------------|------|---------|---------------|---------|-------------|----------|
| TYPE                      | DESCRIPTION                                                                                                                                                                                                                                       | MOUNTING | MANUFACTURER | MODEL                                                                          | LAMP | WATTAGE | LUMENS OUTPUT | VOLTAGE | COLOR TEMP. | COMMENTS |
| SL1                       | LED SITE/AREA LIGHT, DIE CAST ALUMINUM HOUSING, ROUND TAPERED STEEL POLE WITH INTEGRAL VIBRATION DAMPERS. TYPE: 2 DISTRIBUTION, BI LEVEL MOTION RESPONSE WITH INTEGRAL PASSIVE INFRARED SENSOR. LUMINAIRE, ARM, AND POLE TO HAVE MATCHING FINISH. | POLE     | GARDCO       | (1)<br>ECF-S-32L-530-WW-G2-AR-2-480-BL-IMR17-MGY<br>POLE: TRS-30H-5-DX-MGY-VDA | LED  | 56 W    | 7159 LM       | 480V    | 3000 K      |          |
| SL2                       | SAME AS SL1, TWO LUMINAIR HEADS MOUNTED 180 DEGREES APART.                                                                                                                                                                                        | POLE     | GARDCO       | (2)<br>ECF-S-32L-1A-WW-G2-AR-3-480-BL-IMR17-MGY<br>POLE: TRS-30H-5-DX-MGY-VDA  | LED  | 212 W   | 25438 LM      | 480V    | 3000 K      |          |
| SL3                       | SAME AS SL1, TYPE 5 WIDE DISTRIBUTION                                                                                                                                                                                                             | POLE     | GARDCO       | (1)<br>ECF-S-32L-530-WW-G2-AR-5W-480-BL-IMR17-MGY                              | LED  | 56 W    | 7284 LM       | 480V    | 3000 K      |          |
| SW2                       | WALL SCONCE, DIE CAST ALUMINUM HOUSING, COMFORT TYPE 2 DISTRIBUTION                                                                                                                                                                               | WALL     | GARDCO       | PWS-196L-450-WW-G2-2-480-BL-MGY                                                | LED  | 21 W    | 2040 LM       | 480V    | 3000 K      |          |
| T2                        | LED SITE/AREA LIGHT, DIE CAST ALUMINUM HOUSING, LUMINAIRE AND ARM TO HAVE MATCHING FINISH. NOTE: HEADS TO BE MOUNTED ATOP CONCRETE SECURITY POLE.                                                                                                 | POLE     | GARDCO       | (3 AT 289W)<br>PFF-13BL-700-WW-G2-SF-SP-HV U-SP2-MGY                           | LED  | 867 W   | 130857 LM     | 480V    | 3000 K      |          |

| PHOTOMETRIC CALCULATIONS |              |              |              |
|--------------------------|--------------|--------------|--------------|
| CALCULATION ZONE NAME    | AVERAGE (FC) | MINIMUM (FC) | MAXIMUM (FC) |
| NORTHERN PROPERTY LINE   | 0.0          | 0.0          | 0.4          |
| EASTERN PROPERTY LINE    | 0.0          | 0.0          | 0.0          |
| SOUTHERN PROPERTY LINE   | 0.0          | 0.0          | 0.1          |
| WESTERN PROPERTY LINE    | 0.0          | 0.0          | 0.3          |

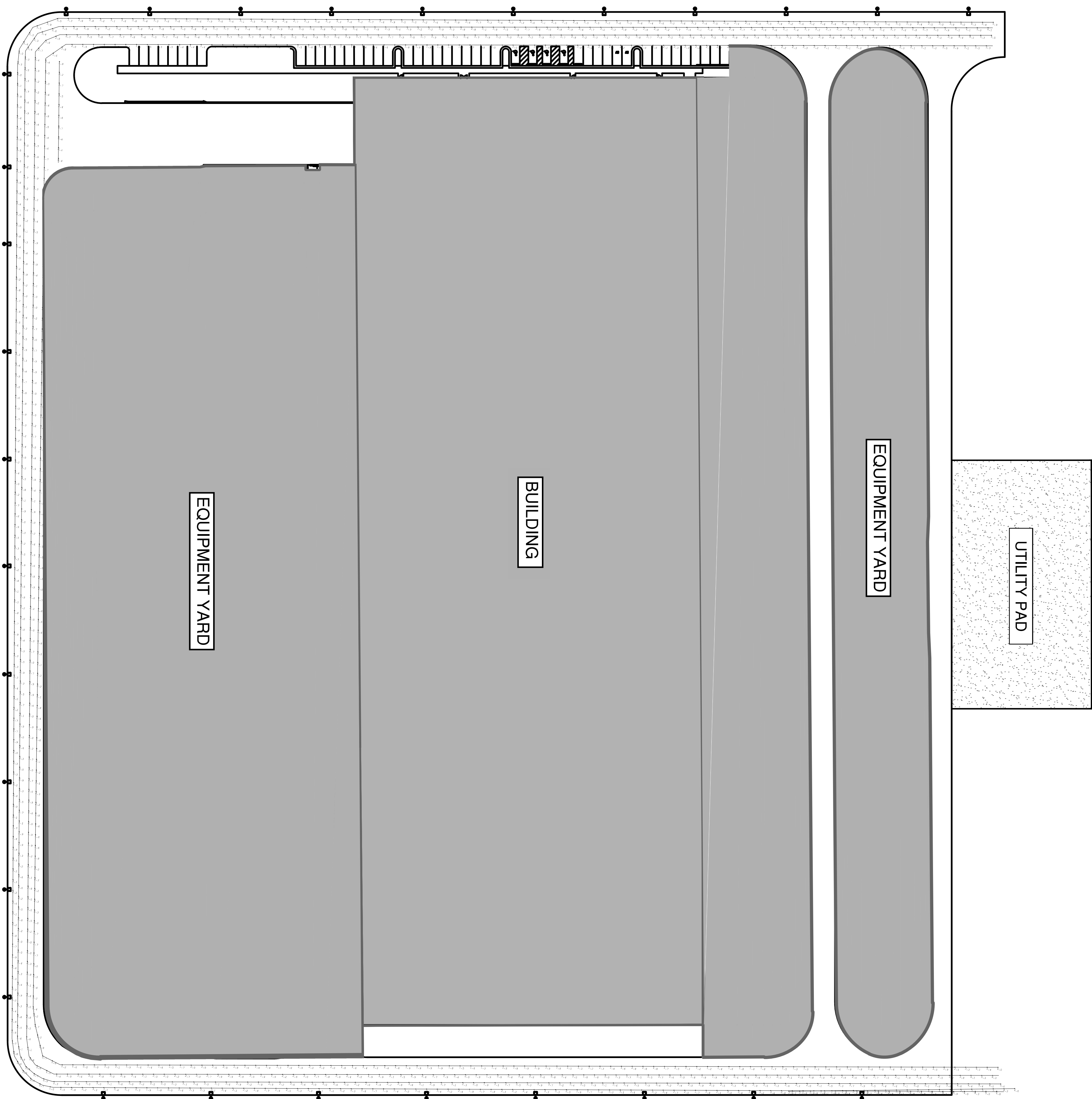
# LEGEND

|                                                                                     |                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------|
|    | PROPERTY LINE                                                 |
|  | SETBACK LINE                                                  |
|  | DRAINAGE AND UTILITY EASEMENT                                 |
|  | PROPOSED SECURITY FENCE                                       |
|  | PROPOSED RETAINING WALL                                       |
|  | PROPOSED CURB AND GUTTER                                      |
|  | WETLAND PRESERVATION                                          |
|  | <u>STORM WATER MANAGEMENT</u><br>SEE GRADING PLAN FOR DETAILS |
|  | PHOTOMETRIC MEASUREMENT (FC)                                  |
|  | LIGHTING FIXTURE                                              |



Know what's **below**.  
**Call** before you dig.

[illegible]

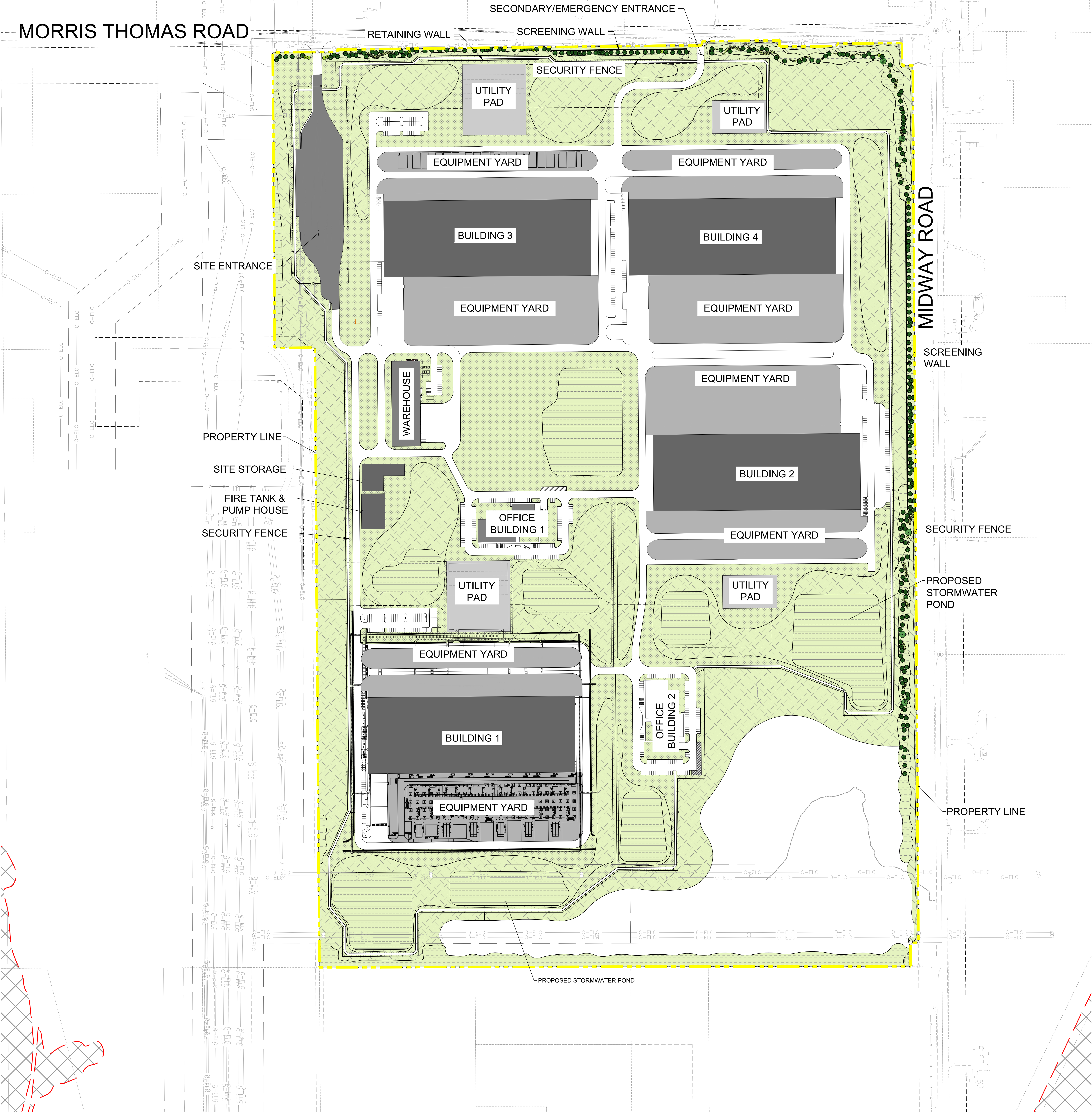


| Illuminance Targets per IESNA 10th Edition<br>Footcandles (Lux)              |                         |                         |                         |                         |
|------------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Area                                                                         | Average<br>(Horizontal) | Minimum<br>(Horizontal) | Uniformity<br>(Ave/Min) | Uniformity<br>(Max/Min) |
| Building<br>Perimeter                                                        | n/a                     | 1.0 @ Grade<br>(11)     | n/a                     | n/a                     |
| Utility Pad                                                                  | 2.0 @ Grade<br>(21)     | n/a                     | n/a                     | 10:1                    |
| Security Fence*,<br>Site Entrance,<br>Roadways,<br>Parking Lots,<br>Walkways | 1.0 @ Grade<br>(11)     | 0.3 @ Grade<br>(3)      | 3:1                     | n/a                     |

\*Fence lighting intends to ensure that there is an illumination level at the fence and not beyond

|                      |                                                                                           |                                         |                          |  |                                                                                                                                                                                        |     |           |      |    |
|----------------------|-------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|------|----|
| SHEET NUMBER<br>---- | HERMANTOWN INDUSTRIAL<br><br>PREPARED FOR<br>HARMONY GROUP LLC<br><br>HERMANTOWNMINNESOTA | TYPICAL BUILDING<br>PHOTOMETRIC<br>PLAN | KHA PROJECT<br>161333002 |  | <div>Kimley»Horn</div> <div>© 2025 KIMLEY-HORN AND ASSOCIATES, INC.<br/>11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344<br/>PHONE: 612-315-1272<br/>WWW.KIMLEY-HORN.COM</div> |     |           |      |    |
|                      |                                                                                           |                                         | DATE<br>10/17/2025       |  |                                                                                                                                                                                        |     |           |      |    |
|                      |                                                                                           |                                         | SCALE NOT TO SCALE       |  |                                                                                                                                                                                        |     |           |      |    |
|                      |                                                                                           |                                         | DESIGNED BY              |  |                                                                                                                                                                                        |     |           |      |    |
|                      |                                                                                           |                                         | DRAWN BY                 |  |                                                                                                                                                                                        |     |           |      |    |
|                      |                                                                                           |                                         | CHECKED BY               |  |                                                                                                                                                                                        |     |           |      |    |
|                      |                                                                                           |                                         |                          |  |                                                                                                                                                                                        | No. | REVISIONS | DATE | BY |

MORRIS THOMAS ROAD



CONCEPT PLANT SCHEDULE

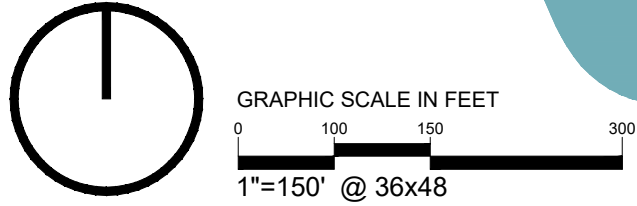
| COMMON NAME                                   | BOTANICAL NAME                 | CONT     | CAL       |
|-----------------------------------------------|--------------------------------|----------|-----------|
| <strong>CONIFEROUS TREE</strong>              |                                |          |           |
| BALSAM FIR                                    | ABIES BALSAMEA                 | B & B    | 8' HT.    |
| JACK PINE                                     | PINUS BANKSIANA                | B & B    | 8' HT.    |
| TAMARACK                                      | LARIX LARICINA                 | B & B    | 8' HT.    |
| BLACK SPRUCE                                  | PICEA MARIANA                  | B & B    | 8' HT.    |
| RED PINE                                      | PINUS RESINOSA                 | B & B    | 8' HT.    |
| WHITE SPRUCE                                  | PICEA GLAUCA                   | B & B    | 8' HT.    |
| WHITE CEDAR                                   | THUJA OCCIDENTALIS             | B & B    | 8' HT.    |
| WHITE PINE                                    | PINUS STROBUS                  | B & B    | 8' HT.    |
| <strong>OVERSTORY TREE</strong>               |                                |          |           |
| NORTHERN PIN OAK                              | QUERCUS ELLIPSOIDALIS          | B & B    | 2.5' CAL. |
| NORTHWOOD MAPLE                               | ACER RUBRUM 'NORTHWOOD'        | B & B    | 2.5' CAL. |
| WHITE OAK                                     | QUERCUS ALBA                   | B & B    | 2.5' CAL. |
| RED OAK                                       | QUERCUS RUBRA                  | B & B    | 2.5' CAL. |
| SUGAR MAPLE                                   | ACER SACCHARUM                 | B & B    | 2.5' CAL. |
| SWAMP WHITE OAK                               | QUERCUS BICOLOR                | B & B    | 2.5' CAL. |
| <strong>UNDERSTORY / ORNAMENTAL TREE</strong> |                                |          |           |
| YELLOW BIRCH                                  | BETULA ALLEGHANIENSIS          | B & B    | 2" CAL.   |
| PAPER BIRCH                                   | BETULA Papyrifera              | B & B    | 2" CAL.   |
| PRAIRIE DREAMS PAPER BIRCH                    | BETULA Papyrifera 'VAREN'      | B & B    | 2" CAL.   |
| PRAIRIE ROSE CRABAPPLE                        | MALUS IOENSIS 'PRAIRIE ROSE'   | B & B    | 2" CAL.   |
| QUAKING ASPEN                                 | POPULUS TREMULOIDES            | B & B    | 2" CAL.   |
| QUAKING ASPEN CLUMP                           | POPULUS TREMULOIDES            | B & B    | 6' HT.    |
| RIVER BIRCH MULTI-TRUNK                       | BETULA NIGRA                   | B & B    | 6' HT.    |
| SHOWY MOUNTAIN ASH                            | SORBUS DECORA                  | B & B    | 2" CAL.   |
| <strong>COMMON NAME</strong>                  |                                |          |           |
| <strong>DECIDUOUS SHRUBS</strong>             |                                |          |           |
| BOG BIRCH                                     | BETULA PUMILA                  | #7 CONT. | 5' O.C.   |
| BLACK CHOKEBERRY                              | ARONIA MELANOCARPA ELATA       | #5 CONT. | 5' O.C.   |
| DWARF BUSH HONEYSUCKLE                        | DIERVILLA LONICERA             | #5 CONT. | 3' O.C.   |
| JUNE BERRY / SERVICE BERRY                    | AMELANCHIER ALNIFOLIA          | #5 CONT. | 10' O.C.  |
| PUSSY WILLOW                                  | SALIX DISCOLOR                 | #5 CONT. | 5' O.C.   |
| REGENT SERVICE BERRY                          | AMELANCHIER ALNIFOLIA 'REGENT' | #5 CONT. | 5' O.C.   |
| LABRADOR TEA                                  | RHODODENDRON GROENLANDICUM     | #5 CONT. | 5' O.C.   |
| FLAME WILLOW                                  | SALIX X 'FLAME'                | #5 CONT. | 5' O.C.   |

SEED MIX / SOD SCHEDULE WITHIN L.O.D.

| SYMBOL                | DESCRIPTION                                            | QTY         |
|-----------------------|--------------------------------------------------------|-------------|
| <strong>SEED</strong> |                                                        |             |
| [Symbol]              | TYPE 1: MNDOT MIX 36-312 WOODLAND EDGE NE              | 0.83 ACRES  |
| [Symbol]              | TYPE 2: MNDOT MIX 38-341 POLLINATOR PLOT NE            | 0 ACRES     |
| [Symbol]              | TYPE 3: MNDOT MIX 32-351 MID DIVERSITY MOIST BUFFER NE | 5.56 ACRES  |
| [Symbol]              | TYPE 4: CUSTOM SEED MIX - NATIVE GRASSES NE            | 31.10 ACRES |
| [Symbol]              | TYPE 6: MNDOT NB - NORTHERN BOULEVARD                  | 36.51 ACRES |
|                       | TOTAL                                                  | 74.0 ACRES  |
| [Symbol]              | TYPE 5: MNDOT MIX 33-361 STORMWATER NE                 | 14.78 ACRES |

NOTE:  
QUANTITIES ON PLAN SUPERSEDE LIST QUANTITIES IN THE EVENT OF A DISCREPANCY.

ABBREVIATIONS:  
B&B = BALLED AND BURLAPPED CAL = CALIPER HT. = HEIGHT  
MIN. = MINIMUM O.C. = ON CENTER SP. = SPECIES QTY. = QUANTITY



LANDSCAPE SUMMARY

| SCREENING REQUIREMENTS |                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------|
| REQUIRED:              | ALL TRASH, LOADING, AND STORAGE AREAS TO BE FULLY SCREENED FROM THE PUBLIC RIGHT-OF-WAY |
| PROVIDED:              | ALL TRASH, LOADING, AND STORAGE AREAS FULLY SCREENED FROM THE PUBLIC RIGHT-OF-WAY       |
| BUFFER REQUIREMENTS    |                                                                                         |
| REQUIRED:              | ALL ABUTTING RESIDENTIAL PROPERTIES TO BE BUFFERED                                      |
| PROVIDED:              | ALL ABUTTING RESIDENTIAL PROPERTIES BUFFERED                                            |

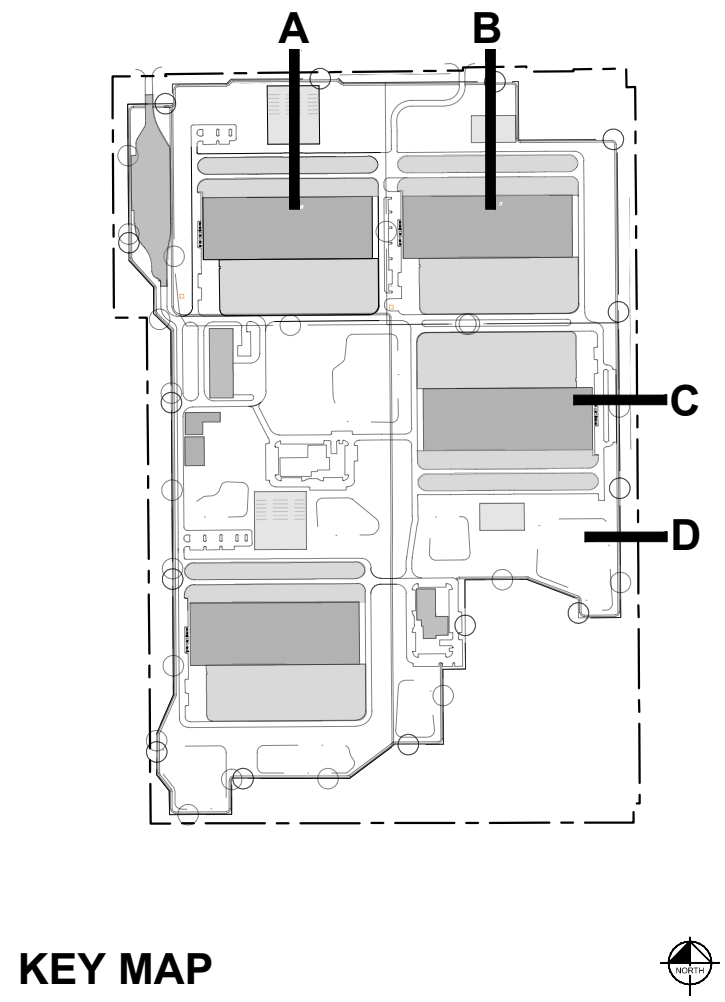
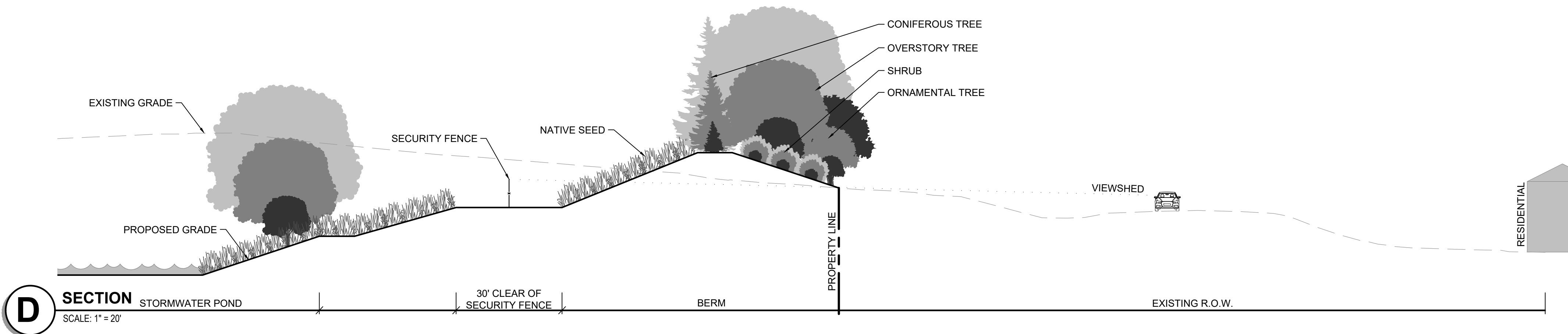
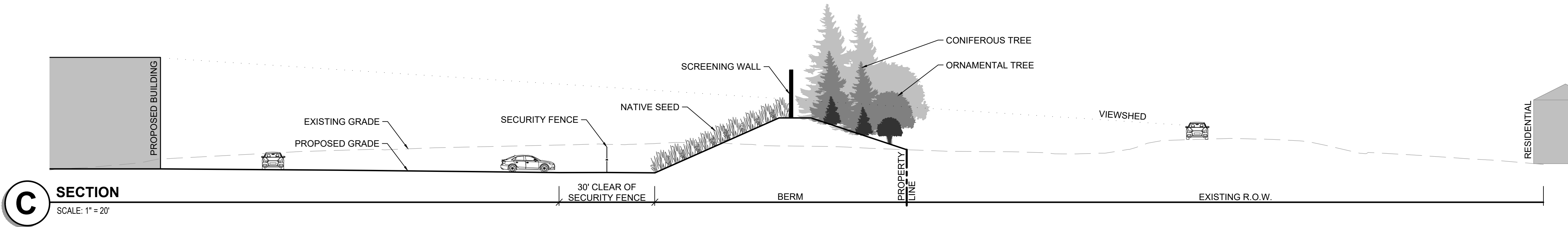
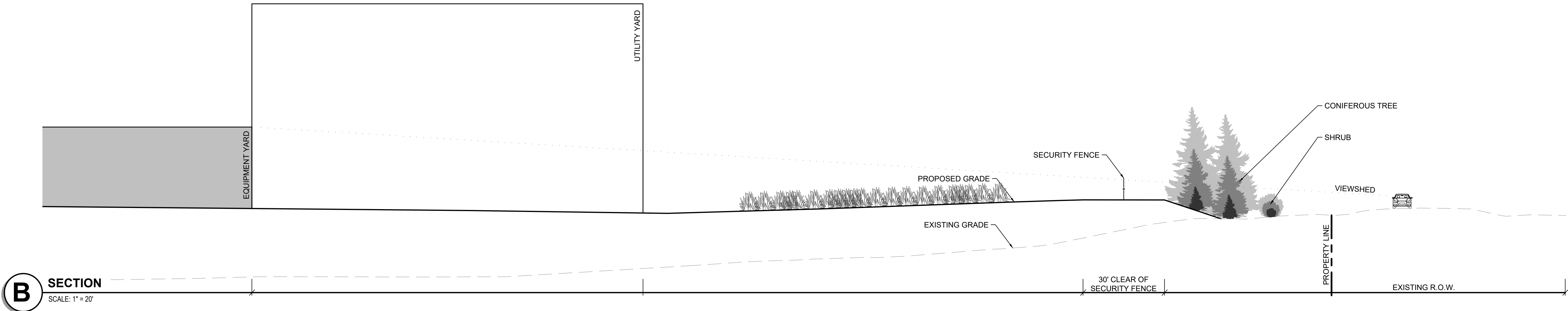
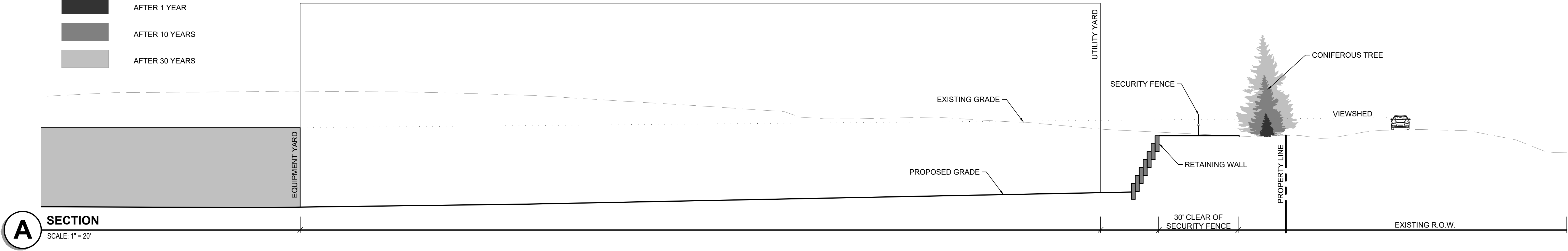
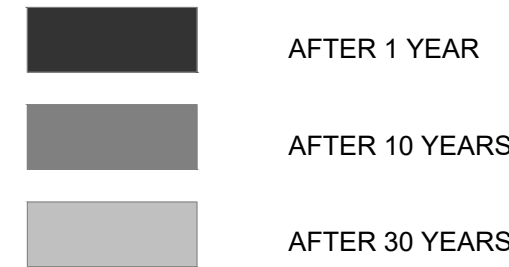
HERMANTOWN INDUSTRIAL

Hermantown, MN | St. Louis County  
July 2025

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### VEGETATION GROWTH LEGEND

[illegible]