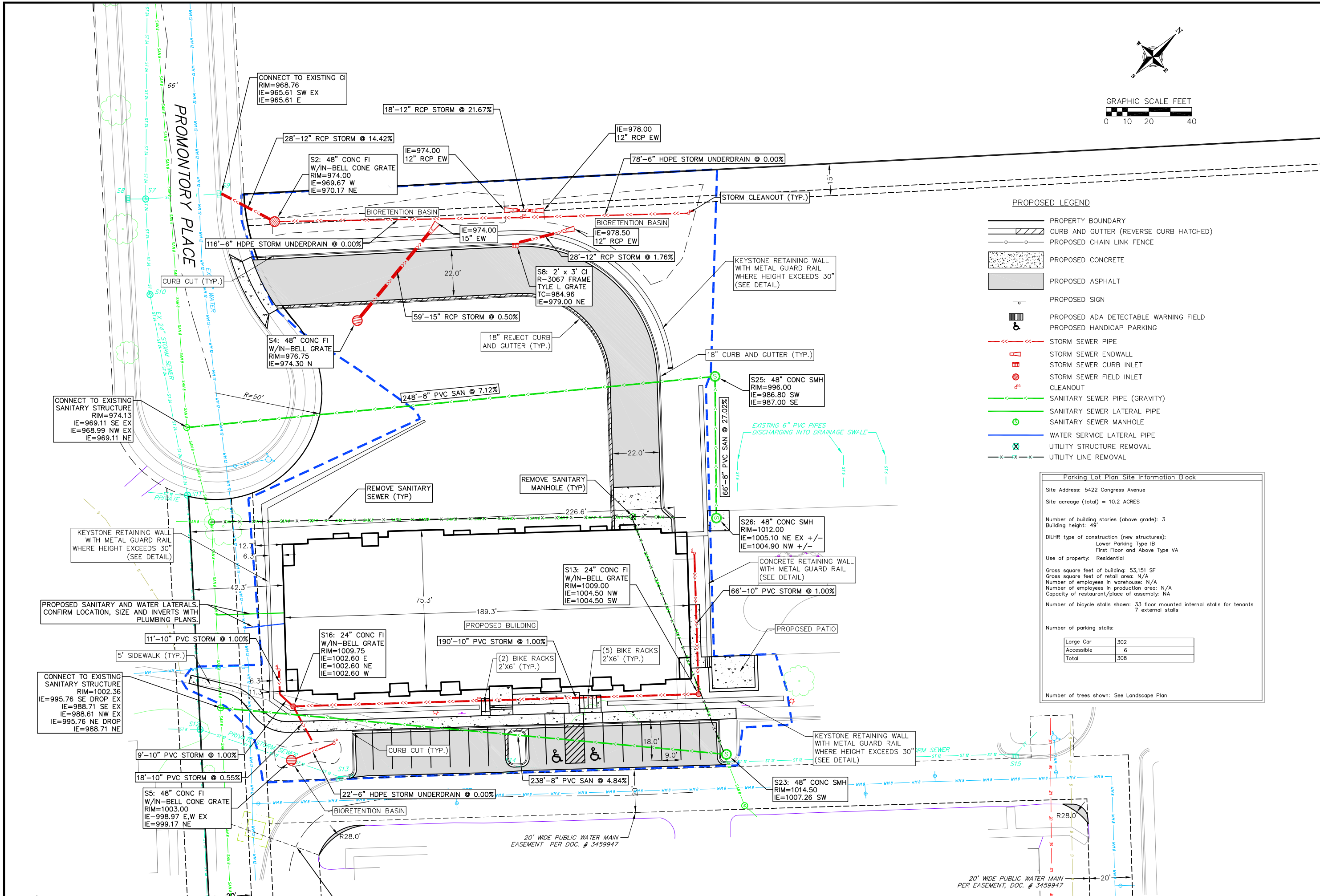
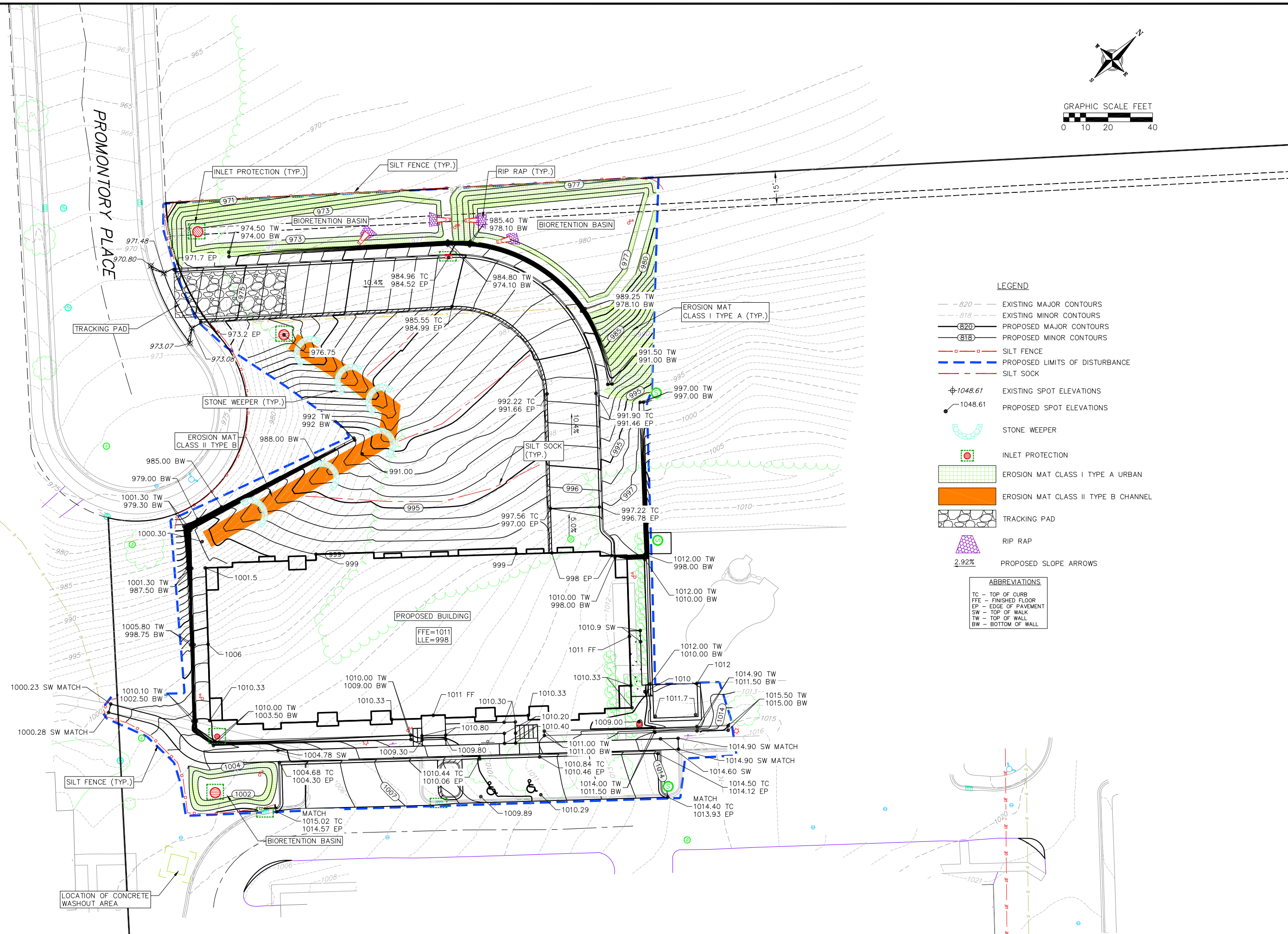
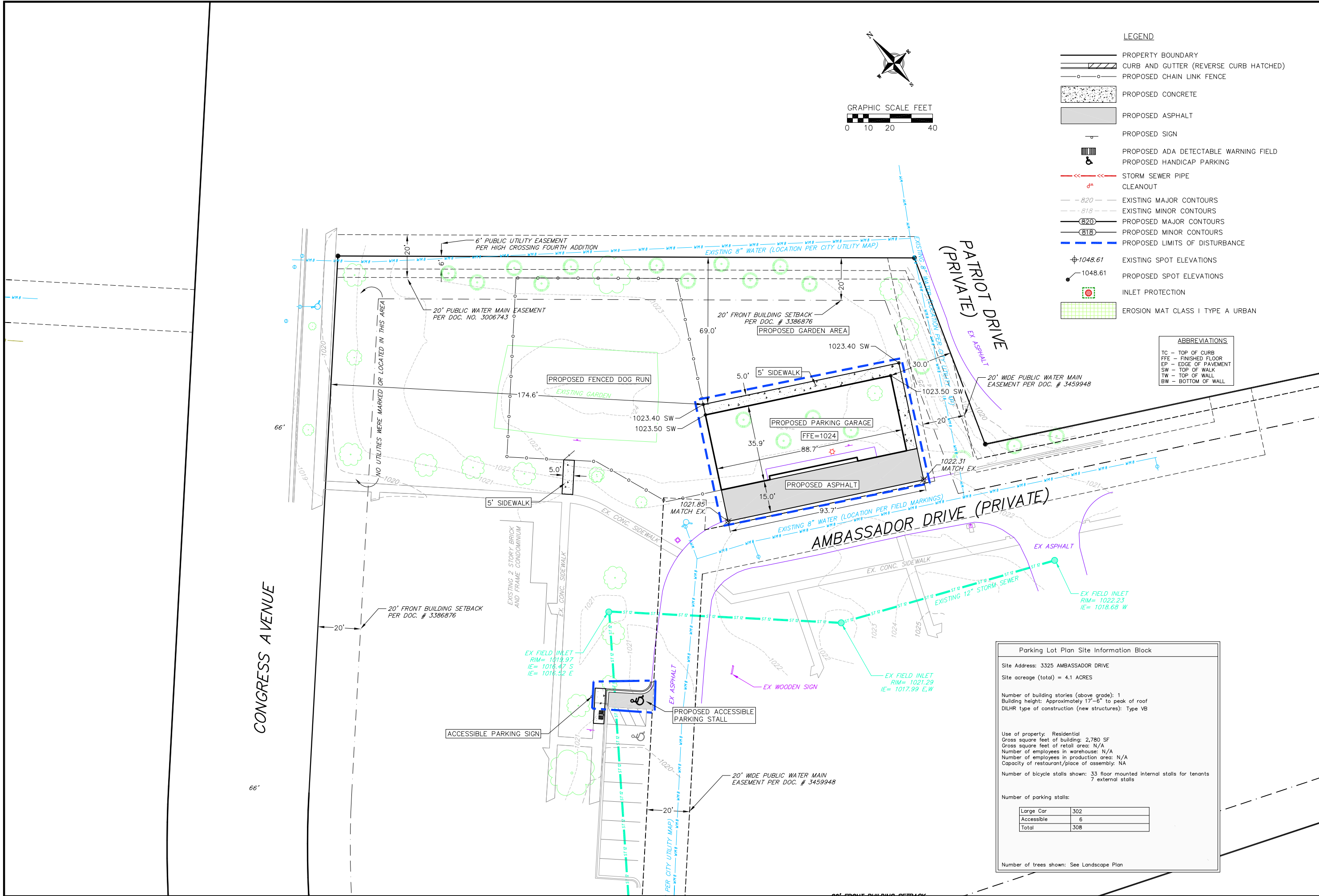






|             |  |           |      |           |         |
|-------------|--|-----------|------|-----------|---------|
| SCALE       |  | REVISIONS |      | REVISIONS |         |
| AS SHOWN    |  | NO.       | DATE | REMARKS   | REMARKS |
| DATE        |  |           |      |           |         |
| 10/18/17    |  |           |      |           |         |
| DRAFTER     |  |           |      |           |         |
| JIGOL       |  |           |      |           |         |
| CHECKED     |  |           |      |           |         |
| MSCH        |  |           |      |           |         |
| PROJECT NO. |  |           |      |           |         |
| 160314      |  |           |      |           |         |
| C           |  |           |      |           |         |
| 4           |  |           |      |           |         |



EROSION CONTROL MEASURES

1. EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE.
2. CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARDS (<http://dnr.wi.gov/runoff/stormwater/techstds.htm>) AND WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK.
3. INSTALL SEDIMENT CONTROL PRACTICES (TRACKING PAD, PERIMETER SILT FENCE, SEDIMENT BASINS, ETC.) PRIOR TO INITIATING OTHER LAND DISTURBING CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED BY THE DNR AND/OR CITY. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
5. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
6. A 3" CLEAR STONE TRACKING PAD SHALL BE INSTALLED AT THE END OF ROAD CONSTRUCTION LIMITS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE ADJACENT PAVED PUBLIC ROADWAY. SEDIMENT TRACKING PAD SHALL CONFORM TO WisDNR TECHNICAL STANDARD 1057. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.
7. CHANNELIZED RUNOFF: FROM ADJACENT AREAS PASSING THROUGH THE SITE SHALL BE DIVERTED AROUND DISTURBED AREAS.
8. STABILIZED DISTURBED GROUND: ANY SOIL OR DIRT PILES WHICH WILL REMAIN IN EXISTENCE FOR MORE THAN 7-CONSECUTIVE DAYS, WHETHER TO BE WORKED DURING THAT PERIOD OR NOT, SHALL NOT BE LOCATED WITHIN 25- FEET OF ANY ROADWAY, PARKING LOT, PAVED AREA, OR DRAINAGE STRUCTURE OR CHANNEL (UNLESS INTENDED TO BE USED AS PART OF THE EROSION CONTROL MEASURES). TEMPORARY STABILIZATION AND CONTROL MEASURES (SEEDING, MULCHING, TARPING, EROSION MATTING, BARRIER FENCING, ETC.) ARE REQUIRED FOR THE PROTECTION OF DISTURBED AREAS AND SOIL PILES, WHICH WILL REMAIN UN-WORKED FOR A PERIOD OF MORE THAN 14-CONSECUTIVE CALENDAR DAYS. THESE MEASURES SHALL REMAIN IN PLACE UNTIL SITE HAS STABILIZED.
9. SITE DE-WATERING: WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROL MEASURES. SEDIMENTATION BASINS SHALL HAVE A DEPTH OF AT LEAST 3 FEET, BE SURROUNDED BY SNOWFENCE OR EQUIVALENT BARRIER AND HAVE SUFFICIENT SURFACE AREA TO PROVIDE A SURFACE SETTLING RATE OF NO MORE THAN 750 GALLONS PER SQUARE FOOT PER DAY AT THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, A NEIGHBORING SITE, OR THE BED OR BANKS OF THE RECEIVING WATER. POLYMERS MAY BE USED AS DIRECTED BY DNR TECHNICAL STANDARD 1061 (DE-WATERING).
10. WASHED STONE WEEPERS SHALL BE BUILT PER PLAN BY CONTRACTOR TO TRAP SEDIMENT OR SLOW THE VELOCITY OF STORM WATER.
11. IN NO CASE WILL RIP-RAP BE SMALLER THAN 3" TO 6".
12. INLET FILTERS ARE TO BE PLACED IN STORMWATER INLET STRUCTURES AS SOON AS THEY ARE INSTALLED. ALL PROJECT AREA STORM INLETS NEED WISCONSIN D.O.T. TYPE D INLET PROTECTION. THE FILTERS SHALL BE MAINTAINED UNTIL THE CITY HAS ACCEPTED THE BINDER COURSE OF ASPHALT.
13. RESTORATION (SEED, FERTILIZE AND MULCH) SHALL BE PER SPECIFICATIONS ON THIS SHEET UNLESS SPECIAL RESTORATION IS CALLED FOR ON THE LANDSCAPE PLAN.
14. TERRACES SHALL BE RESTORED WITH 6" TOPSOIL, PERMANENT SEED, FERTILIZER AND MULCH. LOTS SHALL BE RESTORED WITH 6" TOPSOIL, TEMPORARY SEED, FERTILIZER AND MULCH.
15. SEED, FERTILIZER AND MULCH SHALL BE APPLIED WITHIN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED. IF DISTURBED AREAS WILL NOT BE RESTORED IMMEDIATELY AFTER ROUGH GRADING, TEMPORARY SEED SHALL BE PLACED.
16. FOR THE FIRST SIX WEEKS AFTER RESTORATION (E.G. SEED & MULCH, EROSION MAT, SOD) OF A DISTURBED AREA, INCLUDE SUMMER WATERING PROVISIONS OF ALL NEWLY SEEDED AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
17. EROSION MAT (CLASS I, TYPE A URBAN PER WISCONSIN D.O.T. P.A.L.) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER BUT LESS THAN 1:1.
18. EROSION MAT (CLASS I, TYPE B URBAN PER WISCONSIN D.O.T. P.A.L.) SHALL BE INSTALLED ON THE BOTTOM (INVERT) OF ROADSIDE DITCHES/SWALES AS SHOWN ON THIS PLAN, 1 ROLL WIDTH.
19. SILT FENCE OR EROSION MAT SHALL BE INSTALLED ALONG THE CONTOURS AT 100 FOOT INTERVALS DOWN THE SLOPE ON THE DISTURBED SLOPES STEEPER THAN 5% AND MORE THAN 100 FEET LONG THAT SHEET FLOW TO THE ROADWAY UNLESS SOIL STABILIZERS ARE USED.
20. SILT FENCE TO BE USED ACROSS AREAS OF THE LOT THAT SLOPE TOWARDS A PUBLIC STREET OR WATERWAY. SEE DETAILS.
21. SEDIMENT SHALL BE CLEANED FROM CURB AND GUTTER AFTER EACH RAINFALL AND PRIOR TO PROJECT ACCEPTANCE.
22. ACCUMULATED CONSTRUCTION SEDIMENT SHALL BE REMOVED FROM ALL PERMANENT BASINS TO THE ELEVATION SHOWN ON THE GRADING PLAN FOLLOWING THE STABILIZATION OF DRAINAGE AREAS.
23. ANY PROPOSED CHANGES TO THE EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY OF MADISON AND DNR.
24. THE CITY, OWNER AND/OR ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME DURING CONSTRUCTION.

SEEDING RATES:

TEMPORARY:

1. USE ANNUAL OATS AT 3.0 LB./1,000 S.F. FOR SPRING AND SUMMER PLANTINGS.
2. USE WINTER WHEAT OR RYE AT 3.0 LB./1,000 SF FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 15.

PERMANENT:

1. USE WISCONSIN D.O.T. SEED MIX #40 AT 2 LB./1,000 S.F.

FERTILIZING RATES:

TEMPORARY AND PERMANENT:

USE WISCONSIN D.O.T. TYPE A OR B AT 7 LB./1,000 S.F.

MULCHING RATES:

TEMPORARY AND PERMANENT:

USE ½" TO 1-½" STRAW OR HAY MULCH, CRIMPED PER SECTION 607.3.2.3, OR OTHER RATE AND METHOD PER SECTION 627, WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION

CONSTRUCTION SEQUENCE:

1. INSTALL EROSION CONTROL MEASURES
2. STRIP TOPSOIL
3. ROUGH GRADE SITE
4. CONSTRUCT UNDERGROUND UTILITIES
5. CONSTRUCT BUILDINGS
6. CONSTRUCT PARKING AREAS AND DRIVES (STONE BASE, CURB & GUTTER, AND SIDEWALK)
7. RESTORE DISTURBED AREAS
8. REMOVE EROSION CONTROL MEASURES AFTER DISTURBED AREAS ARE RESTORED
9. INSTALL STORM INLET FILTERS IN ALL INLETS TAKING PAVEMENT DRAINAGE

BIO-RETENTION AREA RESTORATION SPECIFICATIONS:

NOTE: BIO-RETENTION AREA MUST NOT BE CONSTRUCTED (INSTALLED) UNTIL THE SITE IS STABILIZED, I.E. THE GRASS COVER IS WELL ESTABLISHED.

BIO-RETENTION AREA MUST CONFORM TO WISCONSIN DNR TECHNICAL STANDARD 1004 (BIORETENTION FOR INFILTRATION)

USE RAINWATER GARDEN LIVE NATIVE PLANT PLUGS FROM AGRECOL (SUNNY, SHORT, OR MEDIUM STATURE) – OR ENGINEER APPROVED EQUAL.

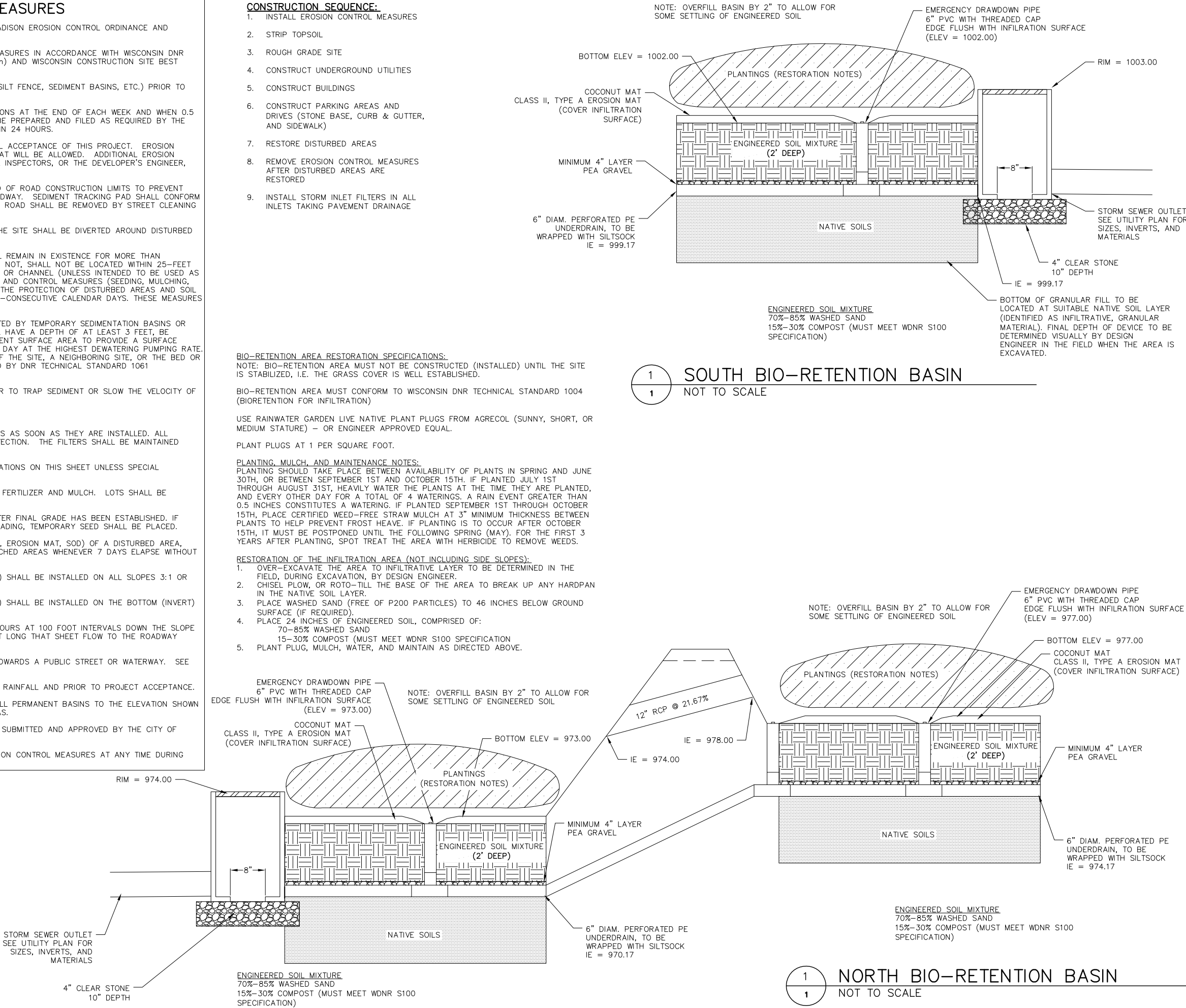
PLANT PLUGS AT 1 PER SQUARE FOOT.

PLANTING, MULCH, AND MAINTENANCE NOTES:

PLANTING SHOULD TAKE PLACE BETWEEN AVAILABILITY OF PLANTS IN SPRING AND JUNE 30TH, OR BETWEEN SEPTEMBER 1ST AND OCTOBER 15TH. IF PLANTED JULY 1ST THROUGH AUGUST 31ST, HEAVILY WATER THE PLANTS AT THE TIME THEY ARE PLANTED, AND EVERY OTHER DAY FOR A TOTAL OF 4 WATERINGS. A RAIN EVENT GREATER THAN 0.5 INCHES CONSTITUTES A WATERING. IF PLANTED SEPTEMBER 1ST THROUGH OCTOBER 15TH, PLACE CERTIFIED WEED-FREE STRAW MULCH AT 3" MINIMUM THICKNESS BETWEEN PLANTS TO HELP PREVENT FROST HEAVE. IF PLANTING IS TO OCCUR AFTER OCTOBER 15TH, IT MUST BE POSTPONED UNTIL THE FOLLOWING SPRING (MAY). FOR THE FIRST 3 YEARS AFTER PLANTING, SPOT TREAT THE AREA WITH HERBICIDE TO REMOVE WEEDS.

RESTORATION OF THE INFILTRATION AREA (NOT INCLUDING SIDE SLOPES):

1. OVER-EXCAVATE THE AREA TO INFILTRATIVE LAYER TO BE DETERMINED IN THE FIELD, DURING EXCAVATION, BY DESIGN ENGINEER.
2. CHISEL PLOW, OR ROTO-TILL THE BASE OF THE AREA TO BREAK UP ANY HARDPAN IN THE NATIVE SOIL LAYER.
3. PLACE WASHED SAND (FREE OF P200 PARTICLES) TO 46 INCHES BELOW GROUND SURFACE (IF REQUIRED).
4. PLACE 24 INCHES OF ENGINEERED SOIL, COMPRISED OF:  
70-85% WASHED SAND  
15-30% COMPOST (MUST MEET WDNR S100 SPECIFICATION)
5. PLANT PLUG, MULCH, WATER, AND MAINTAIN AS DIRECTED ABOVE.

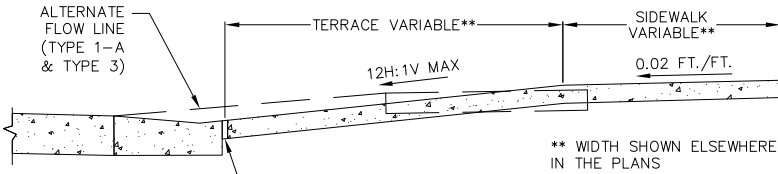


GENERAL NOTES

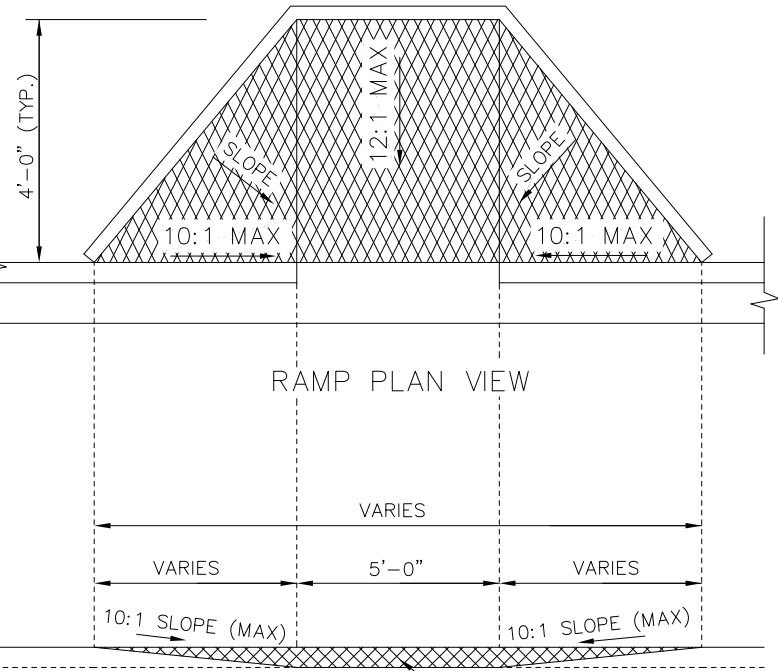
RAMPS SHALL BE BUILT AT 12:1 OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

4" WIDE, PAINTED WHITE STRIPE MAY BE REQUIRED AT DISCRETION OF OWNER. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO COMPLETING WORK.

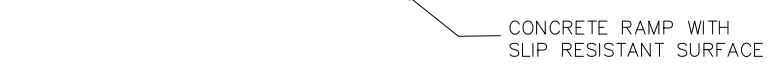
WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES SHALL BE 10:1 MAX, MEASURED PARALLEL TO CURB LINE.



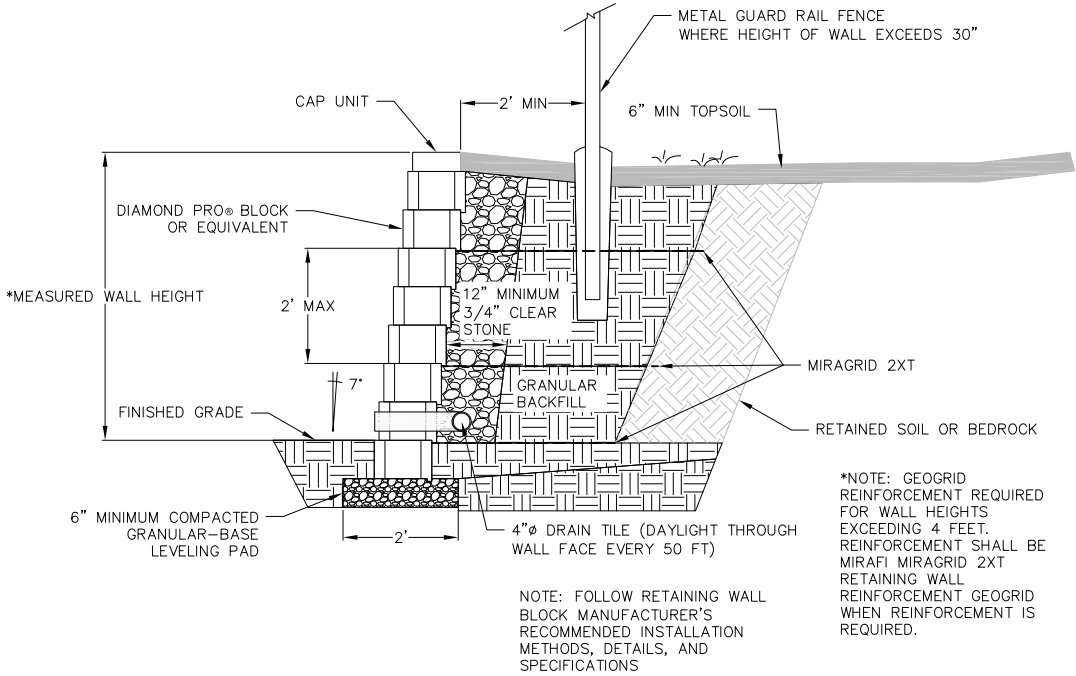
SECTION B-B



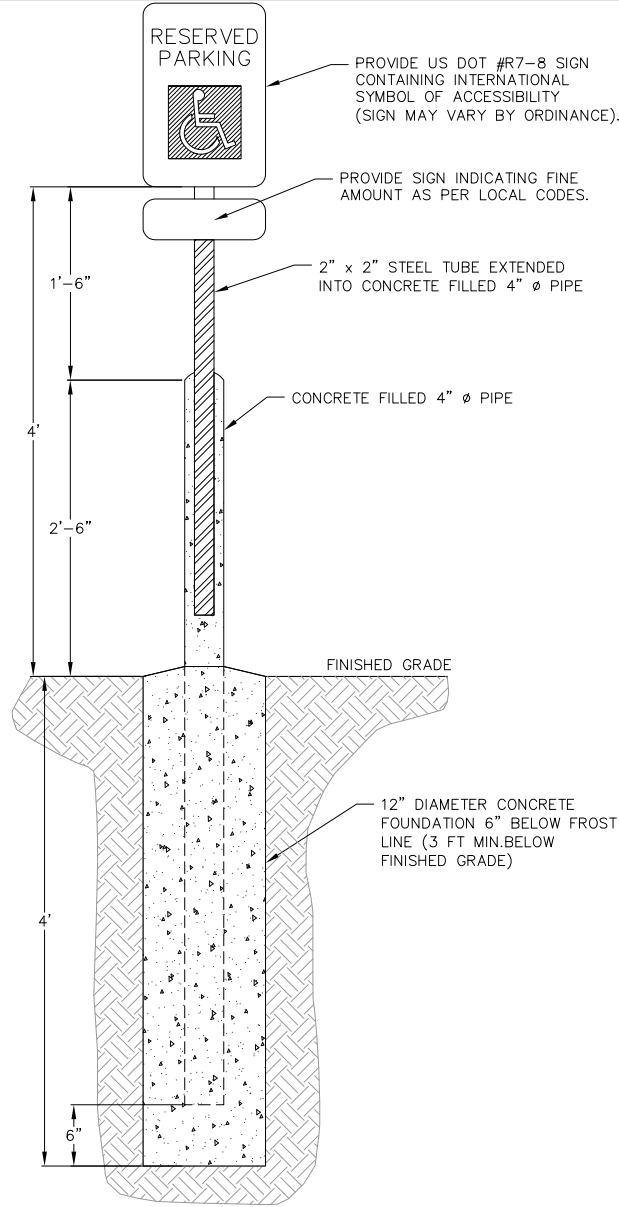
RAMP PROFILE VIEW



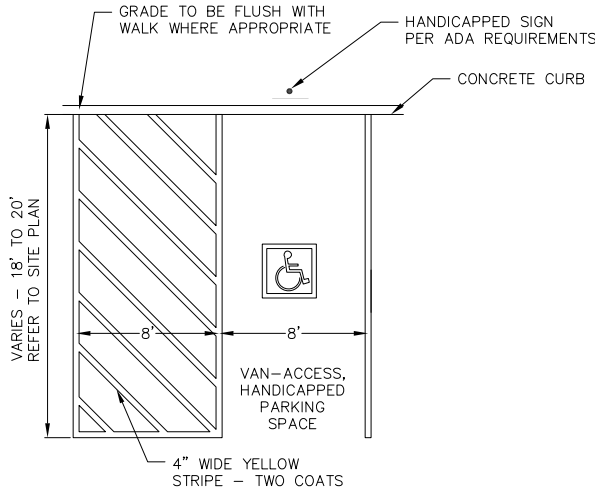
1 SITE HANDICAP ACCESSIBLE RAMP  
1 NOT TO SCALE



1 LANDSCAPE BLOCK RETAINING WALL SYSTEM  
1 NOT TO SCALE



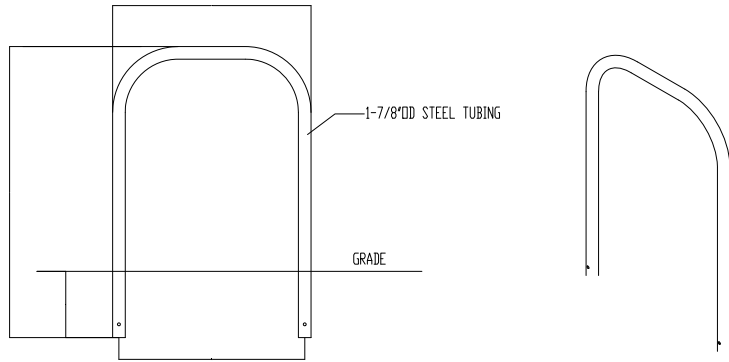
1 ACCESSIBLE PARKING SIGN  
1 NOT TO SCALE



1 HANDICAP STRIPING  
1 NOT TO SCALE

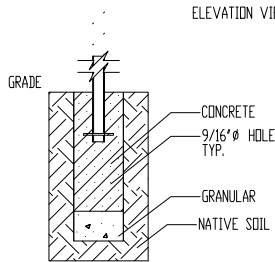


MADRAX DIVISION  
GRABER MANUFACTURING, INC.  
1080 UNIKET DRIVE  
WAUNAKEE, WI 53597  
P(800) 448-7931, P(608) 849-1080, F(608) 849-1081  
WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM

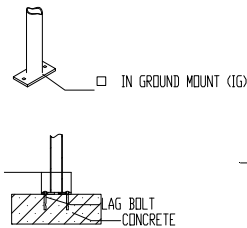


ELEVATION VIEW

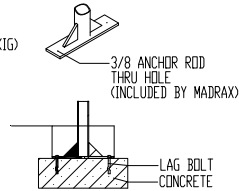
CHECK DESIRED MOUNT ☐



☐ IN GROUND MOUNT (IG)



☐ SURFACE FLANGE MOUNT (SF)  
SECTION VIEWS



☐ SURFACE GUSSET MOUNT (SG)  
UPCHARGE

PRODUCT: PAR-2-SF(IG)  
DESCRIPTION: POST AND RING BIKE RACK WITH FLAT CAP, TUBE STEEL ARMS  
2 BIKE, SURFACE OR IN GROUND MOUNT

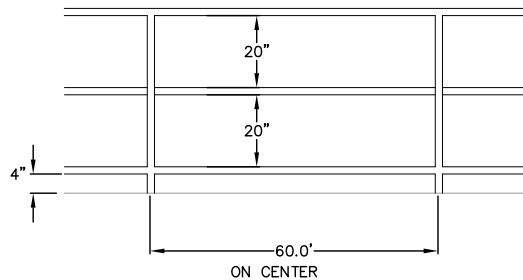
DATE: 1-20-15  
ENG: SMC  
CONFIDENTIAL DRAWING AND INFORMATION IS NOT TO BE COPIED OR DISCLOSED  
TO OTHERS WITHOUT THE CONSENT OF GRABER MANUFACTURING, INC.  
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

©2015 GRABER MANUFACTURING, INC. ALL PROPRIETARY RIGHTS RESERVED.

- NOTES:
1. INSTALL BIKE RACKS ACCORDING TO CITY OF MADISON BIKE RACK REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
  2. FINISH SHALL BE BLACK POWDER COATED STAINLESS STEEL, SEE MANUFACTURER'S SPECIFICATIONS.
  3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

## 1 BICYCLE RACK

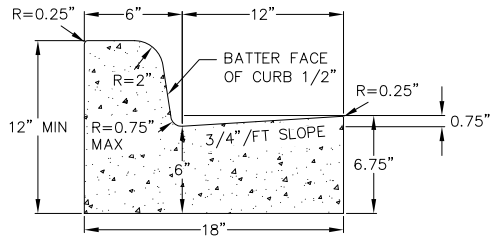
1 NOT TO SCALE



STEEL W/ 1 1/2\"/>

## 1 RETAINING WALL GUARD RAIL

1 NOT TO SCALE

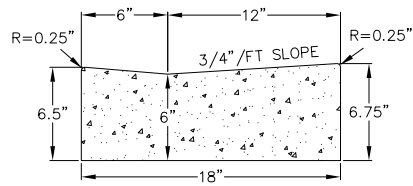


CURB AND GUTTER  
CROSS SECTION

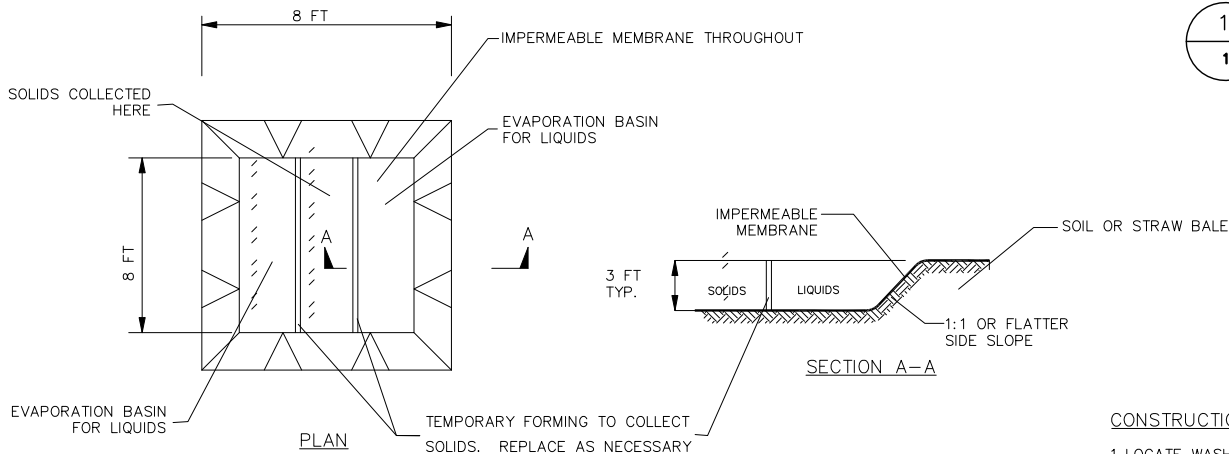
NOTE: ALL CURB AND GUTTER SHALL BE PLACED ON 6" OF COMPACTED, CRUSHED AGGREGATE BASE COURSE  
EXTENDING 1' MINIMUM BEYOND BACK OF CURB.

## 1 18" CONCRETE CURB AND GUTTER

1 NOT TO SCALE



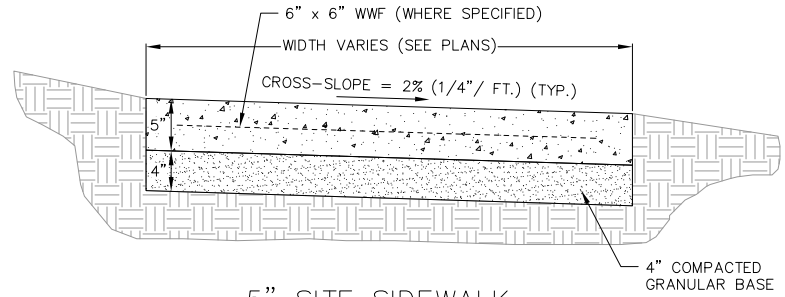
ACCESSIBLE RAMP  
GUTTER CROSS SECTION



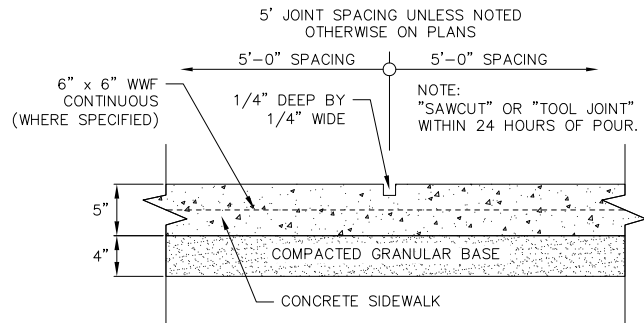
EXCAVATED WASHOUT STRUCTURE

## 1 CONCRETE WASHOUT AREA

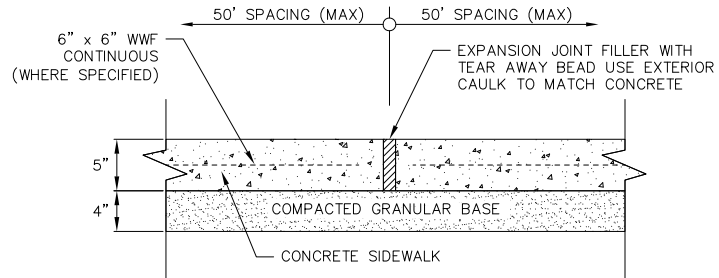
1 NOT TO SCALE



5" SITE SIDEWALK



SIDEWALK CONTROL JOINT



SIDEWALK EXPANSION JOINT

## 1 5" SIDEWALK

1 NOT TO SCALE

### CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
3. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

| REVISIONS | NO. | DATE | REMARKS |
|-----------|-----|------|---------|
|           |     |      |         |
|           |     |      |         |
|           |     |      |         |
|           |     |      |         |
|           |     |      |         |

|             |          |
|-------------|----------|
| SCALE       | AS SHOWN |
| DATE        | 10/18/17 |
| DRAFTER     | JGOL     |
| CHECKED     | MSCH     |
| PROJECT NO. | 160314   |



## PLANT SCHEDULE APARTMENT SITE

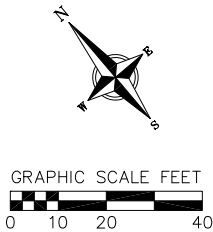
| <u>CONFISERS</u>       | <u>BOTANICAL NAME / COMMON NAME</u>                                            | <u>CONT</u> | <u>CAL</u>    | <u>SIZE</u>   | <u>FIELD4</u> | <u>QTY</u> |
|------------------------|--------------------------------------------------------------------------------|-------------|---------------|---------------|---------------|------------|
| LL                     | Larix laricina / Tamarack<br>30-50` h x 10-15` w                               | B & B       |               | 7` ht.        |               | 3          |
| PA                     | Picea abies / Norway Spruce<br>50-70` h x 25-30` w                             | B & B       |               | 6` ht.        | Tall Tree     | 5          |
| PS                     | Pinus strobus / White Pine<br>50-80` h x 20-40` w                              | B & B       |               | 6` ht.        | Tall Tree     | 4          |
| <u>DECIDUOUS TREES</u> | <u>BOTANICAL NAME / COMMON NAME</u>                                            | <u>CONT</u> | <u>CAL</u>    | <u>SIZE</u>   | <u>FIELD4</u> | <u>QTY</u> |
| CC                     | Carpinus caroliniana / American Hornbeam<br>25-30` h x 25-30` w                | B & B       | 2"Cal         |               | Low Tree      | 5          |
| CO                     | Celtis occidentalis `Chicagoland` / Common Hackberry<br>40` h x 50` w          | B & B       | 2"Cal         |               | Canopy Tree   | 2          |
| QB                     | Quercus bicolor / Swamp White Oak<br>75` h x 65` w                             | B & B       | 2.5"Cal       |               | Canopy Tree   | 3          |
| <u>FLOWERING TREES</u> | <u>BOTANICAL NAME / COMMON NAME</u>                                            | <u>CONT</u> | <u>CAL</u>    | <u>SIZE</u>   | <u>FIELD4</u> | <u>QTY</u> |
| MH                     | Malus x `Hargozam` TM / Harvest Gold Crab Apple<br>20-25` h x 20-25` w         | B & B       | 1.5"Cal       |               | Low Tree      | 2          |
| <u>SHRUBS</u>          | <u>BOTANICAL NAME / COMMON NAME</u>                                            | <u>SIZE</u> | <u>FIELD2</u> | <u>FIELD3</u> | <u>QTY</u>    |            |
| Cra                    | Cornus racemosa / Gray Dogwood<br>8-12` h x 8-12` w                            | 5 gal       |               | Tall Shrub    | 6             |            |
| Cor                    | Cornus sericea `Alleman`s Compact` / Dwarf Red Twig Dogwood<br>5-6` h x 5-6` w | 3 gal       | Med Shrub     |               | 9             |            |
| Die                    | Diervilla lonicera / Dwarf Bush Honeysuckle<br>3-4` h x 4-5` w                 | 3 gal       | Low Shrub     |               | 8             |            |
| Hyd                    | Hydrangea paniculata `Jane` / Little Lime Hydrangea<br>3-5` h x 3-5` w         | 5 gal       | Low Shrub     |               | 19            |            |
| JunY                   | Juniperus horizontalis plumosa `Youngstown` / Creeping Juniper<br>1` h x 6` w  | 3 gal       | Low Shrub     |               | 25            |            |
| Sam                    | Sambucus canadensis / Elderberry<br>5-12` h x 5-12` w                          | 5 gal       | Med Shrub     |               | 9             |            |
| Syr                    | Syringa patula `Miss Kim` / Miss Kim Lilac<br>6-7` h x 5-6` w                  | 5 gal       | Med Shrub     |               | 8             |            |
| <u>VINE/ESPALIER</u>   | <u>BOTANICAL NAME / COMMON NAME</u>                                            | <u>SIZE</u> | <u>FIELD2</u> | <u>FIELD3</u> | <u>QTY</u>    |            |
| Hap                    | Hydrangea anomala petiolaris / Climbing Hydrangea<br>30-40` ht.                | 5 gal       |               |               | 4             |            |

## SEED/PLUG SCHEDULE

|                                                                                       |                                             |           |                |
|---------------------------------------------------------------------------------------|---------------------------------------------|-----------|----------------|
|    | <u>PRAIRIE SEED MIX</u>                     | 23,327 sf | 100% -         |
|    | <u>BASIN PLUGS</u>                          | 3,454 sf  |                |
|                                                                                       | Asclepias incarnata / Swamp Milkweed        | 216       | 6% flat 12" oc |
|                                                                                       | Carex comosa / Bottlebrush Sedge            | 216       | 6% flat 12" oc |
|                                                                                       | Carex lurida / Lurid Sedge                  | 216       | 6% flat 12" oc |
|                                                                                       | Carex vulpinoidea / Brown Fox Sedge         | 216       | 6% flat 12" oc |
|                                                                                       | Coreopsis tripteris / Tall Coreopsis        | 216       | 6% flat 12" oc |
|                                                                                       | Elymus virginicus / Virginia Wild Ry        | 216       | 6% flat 12" oc |
|                                                                                       | Eutrochium maculatum / Spotted Joe Pye Weed | 216       | 6% flat 12" oc |
|                                                                                       | Iris virginica / Blue Flag Iris             | 216       | 6% flat 12" oc |
|                                                                                       | Ulatris spicata / Spike Gayfeather          | 216       | 6% flat 12" oc |
|                                                                                       | Lobelia cardinalis / Cardinal Flower        | 216       | 6% flat 12" oc |
|                                                                                       | Lobelia spicata / Great Lobelia             | 216       | 6% flat 12" oc |
|                                                                                       | Panicum virgatum / Switch Grass             | 216       | 6% flat 12" oc |
|                                                                                       | Rudbeckia triloba / Brown-eyed Susan        | 216       | 6% flat 12" oc |
|                                                                                       | Scirpus atrovirens / Dark Green Bulrush     | 216       | 6% flat 12" oc |
|                                                                                       | Silphium terebinthinaceum / Prairie Dock    | 216       | 6% flat 12" oc |
|                                                                                       | Spartina pectinata / Prairie Cordgrass      | 216       | 6% flat 12" oc |
|  | <u>TURF GRASS SEED MIX</u>                  | 3,141 sf  | 100% -         |

**GENERAL NOTES:**

1. All plantings shall conform to quality requirements as per ANSI Z60.1.
2. All plant material shall be true to the species, variety and size specified, nursery grown in accordance with good horticultural practices, and under climatic conditions similar to those of the project site.
3. Contact Landscape Architect, in writing, to request and plant material substitutions due to availability issues.
4. All disturbed areas, unless otherwise noted, to be seeded with Madison Parks Mix by Olds Seed Company or equivalent, per manufacturer's specified application rates. All seeded areas are to be watered daily to maintain adequate soil moisture for proper germination. After vigorous growth is established, apply  $\frac{1}{2}$ " water twice weekly until final acceptance.
5. All plants shall be guaranteed to be in healthy and flourishing condition during the growing season following installation. All plant material shall be guaranteed for one year from the time of installation.
6. Contractor shall provide a suitable amended topsoil blend for all planting areas where soil conditions are unsuitable for plant growth. Topsoil shall conform to quality requirements as per Section 625.2(1) of the Standard Specifications for Highway Construction. Provide a minimum of 12" of topsoil in all planting areas and 6" of topsoil in areas to be seeded/sodded.
7. Landscape beds to be mulched with shredded hardwood bark to 3" depth min. Edge beds with commercial grade steel landscape edging.
8. Areas labeled "PRAIRIE SEED MIX" to be seeded with Economy Prairie Mix by Cardno Native Plant Nursery, or equal. See specifications.

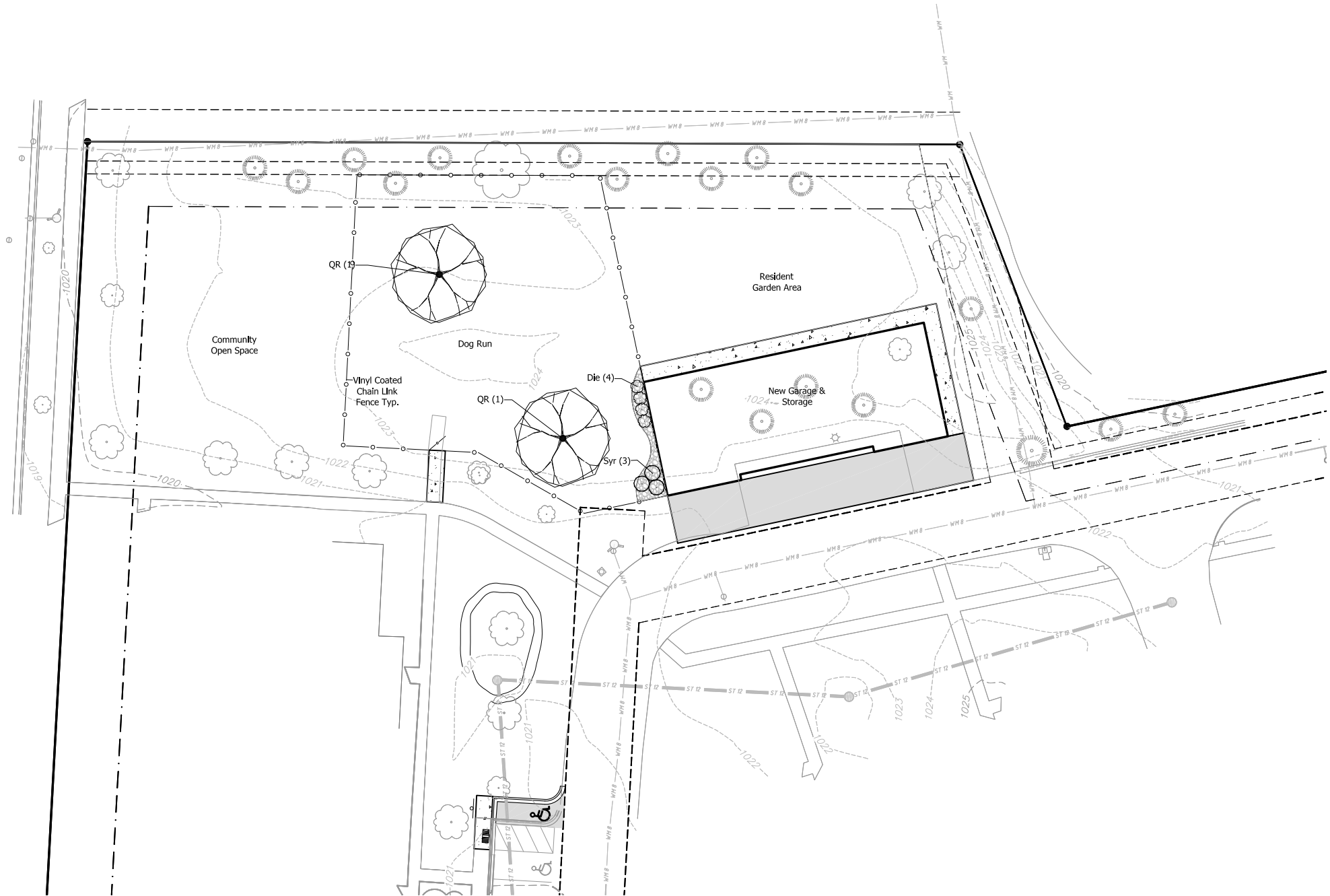


| DECIDUOUS TREES | BOTANICAL NAME / COMMON NAME                                   | CONT  | CAL                | FIELD <sup>4</sup> | QTY |
|-----------------|----------------------------------------------------------------|-------|--------------------|--------------------|-----|
| QR              | Quercus rubra / Red Oak<br>60-75" h x 60-75" w                 | B & B | 2.5" Cal           | Canopy Tree        | 2   |
| SHRUBS          | BOTANICAL NAME / COMMON NAME                                   | SIZE  | FIELD <sup>2</sup> |                    | QTY |
| Die             | Diervilla lonicera / Dwarf Bush Honeysuckle<br>3-4" h x 4-5" w | 3 gal | Low Shrub          |                    | 4   |
| Syr             | Syringa patula 'Miss Kim' / Miss Kim Lilac<br>6-7" h x 5-6" w  | 5 gal | Med Shrub          |                    | 3   |

1. All plantings shall conform to quality requirements as per ANSI Z60.1.
2. All plant material shall be true to the species, variety and size specified, nursery grown in accordance with good horticultural practices, and under climatic conditions similar to those of the project site.
3. Contact Landscape Architect, in writing, to request and plant material substitutions due to availability issues.
4. All disturbed areas, unless otherwise noted, to be seeded with Madison Parks Mix by Olds Seed Company or equivalent, per manufacturer's specified application rates. All seeded areas are to be watered daily to maintain adequate soil moisture for proper germination. After vigorous growth is established, apply  $\frac{1}{2}$ " water twice weekly until final acceptance.
5. All plants shall be guaranteed to be in healthy and flourishing condition during the growing season following installation. All plant material shall be guaranteed for one year from the time of installation.
6. Contractor shall provide a suitable amended topsoil blend for all planting areas where soil conditions are unsuitable for plant growth. Topsoil shall conform to quality requirements as per Section 625.2(1) of the Standard Specifications for Highway Construction. Provide a minimum of 12" of topsoil in all planting areas and 6" of topsoil in areas to be seeded/sodded.
7. Landscape beds to be mulched with shredded hardwood bark to 3" depth min. Edge beds with commercial grade steel landscape edging.

|                   |          |           |      |           |      |
|-------------------|----------|-----------|------|-----------|------|
| SCALE<br>AS SHOWN |          | REVISIONS |      | REVISIONS |      |
| DATE              | 10/17/17 | NO.       | DATE | NO.       | DATE |
| DRAFTER           | SVN      |           |      |           |      |
| CHECKED           | MSCH     |           |      |           |      |
| PROJECT NO.       | 160314   |           |      |           |      |
|                   | L        |           |      |           |      |
|                   | 2        |           |      |           |      |

1. All plantings shall conform to quality requirements as per ANSI Z60.1.
2. All plant material shall be true to the species, variety and size specified, nursery grown in accordance with good horticultural practices, and under climatic conditions similar to those of the project site.
3. Contact Landscape Architect, in writing, to request and plant material substitutions due to availability issues.
4. All disturbed areas, unless otherwise noted, to be seeded with Madison Parks Mix by Olds Seed Company or equivalent, per manufacturer's specified application rates. All seeded areas are to be watered daily to maintain adequate soil moisture for proper germination. After vigorous growth is established, apply  $\frac{1}{2}$ " water twice weekly until final acceptance.
5. All plants shall be guaranteed to be in healthy and flourishing condition during the growing season following installation. All plant material shall be guaranteed for one year from the time of installation.
6. Contractor shall provide a suitable amended topsoil blend for all planting areas where soil conditions are unsuitable for plant growth. Topsoil shall conform to quality requirements as per Section 625.2(1) of the Standard Specifications for Highway Construction. Provide a minimum of 12" of topsoil in all planting areas and 6" of topsoil in areas to be seeded/sodded.
7. Landscape beds to be mulched with shredded hardwood bark to 3" depth min. Edge beds with commercial grade steel landscape edging.
8. Areas labeled "PRAIRIE SEED MIX" to be seeded with Economy Prairie Mix by Cardno Native Plant Nursery, or equal. See specifications.

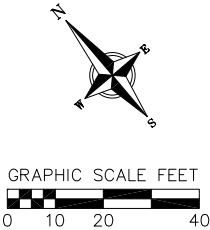


PLANT SCHEDULE GARAGE AREA

| DECIDUOUS TREES | BOTANICAL NAME / COMMON NAME                                   | CONT  | CAL       | FIELD4      | QTY |
|-----------------|----------------------------------------------------------------|-------|-----------|-------------|-----|
| QR              | Quercus rubra / Red Oak<br>60-75' h x 60-75' w                 | B & B | 2.5" Cal  | Canopy Tree | 2   |
| SHRUBS          | BOTANICAL NAME / COMMON NAME                                   | SIZE  | FIELD2    |             | QTY |
| Die             | Diervilla lonicera / Dwarf Bush Honeysuckle<br>3-4' h x 4-5' w | 3 gal | Low Shrub |             | 4   |
| Syr             | Syringa patula "Miss Kim" / Miss Kim Lilac<br>6-7' h x 5-6' w  | 5 gal | Med Shrub |             | 3   |

GENERAL NOTES:

1. All plantings shall conform to quality requirements as per ANSI Z60.1.
2. All plant material shall be true to the species, variety and size specified, nursery grown in accordance with good horticultural practices, and under climactic conditions similar to those of the project site.
3. Contact Landscape Architect, in writing, to request and plant material substitutions due to availability issues.
4. All disturbed areas, unless otherwise noted, to be seeded with Madison Parks Mix by Olds Seed Company or equivalent, per manufacturer's specified application rates. All seeded areas are to be watered daily to maintain adequate soil moisture for proper germination. After vigorous growth is established, apply 1/2" water twice weekly until final acceptance.
5. All plants shall be guaranteed to be in healthy and flourishing condition during the growing season following installation. All plant material shall be guaranteed for one year from the time of installation.
6. Contractor shall provide a suitable amended topsoil blend for all planting areas where soil conditions are unsuitable for plant growth. Topsoil shall conform to quality requirements as per Section 625.2(1) of the Standard Specifications for Highway Construction. Provide a minimum of 12" of topsoil in all planting areas and 6" of topsoil in areas to be seeded/sodded.
7. Landscape beds to be mulched with shredded hardwood bark to 3" depth min. Edge beds with commercial grade steel landscape edging.



| REVISIONS             | REVISIONS |      | REMARKS |
|-----------------------|-----------|------|---------|
|                       | NO.       | DATE |         |
|                       |           |      |         |
|                       |           |      |         |
|                       |           |      |         |
|                       |           |      |         |
| SCALE<br>AS SHOWN     |           |      |         |
| DATE<br>10/17/17      |           |      |         |
| DRAFTER<br>SVN        |           |      |         |
| CHECKED<br>MSCH       |           |      |         |
| PROJECT NO.<br>160314 |           |      |         |
| L                     |           |      |         |
| 2                     |           |      |         |



# CITY OF MADISON LANDSCAPE WORKSHEET

Section 28.142 Madison General Ordinance

Project Location / Address 5422 Congress Avenue  
Name of Project The Madison Apartments- New Apartment Building  
Owner / Contact Matt Schreiner, PE  
Contact Phone 608.821.3961 Contact Email msch@vierbicher.com

**\*\* Landscape plans for zoning lots greater than ten thousand (10,000) square feet in size  
MUST be prepared by a registered landscape architect. \*\***

## Applicability

The following standards apply to all exterior construction and development activity, including the expansion of existing buildings, structures and parking lots, except the construction of detached single-family and two-family dwellings and their accessory structures. The entire development site must be brought up to compliance with this section unless **all** of the following conditions apply, in which case only the affected areas need to be brought up to compliance:

- (a) The area of site disturbance is less than ten percent (10%) of the entire development site during any ten-(10) year period.
- (b) Gross floor area is only increased by ten percent (10%) during any ten-(10) year period.
- (c) No demolition of a principal building is involved.
- (d) Any displaced landscaping elements must be replaced on the site and shown on a revised landscaping plan.

## Landscape Calculations and Distribution

Required landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as that area within a single contiguous boundary which is made up of structures, parking, driveways and docking/loading facilities, but excluding the area of any building footprint at grade, land designated for open space uses such as athletic fields, and undeveloped land area on the same zoning lot. There are three methods for calculating landscape points depending on the size of the lot and Zoning District.

- (a) For all lots except those described in (b) and (c) below, five (5) landscape points shall be provided for each three hundred (300) square feet of developed area.

Total square footage of developed area 43,610

Total landscape points required 727

- (b) **For lots larger than five (5) acres**, points shall be provided at five (5) points per three hundred (300) square feet for the first five (5) developed acres, and one (1) point per one hundred (100) square feet for all additional acres.

Total square footage of developed area \_\_\_\_\_

Five (5) acres = 217,800 square feet

First five (5) developed acres = 3,630 points

Remainder of developed area \_\_\_\_\_

Total landscape points required \_\_\_\_\_

- (c) **For the Industrial – Limited (IL) and Industrial – General (IG) districts**, one (1) point shall be provided per one hundred (100) square feet of developed area.

Total square footage of developed area \_\_\_\_\_

Total landscape points required \_\_\_\_\_

**Tabulation of Points and Credits**

Use the table to indicate the quantity and points for all existing and proposed landscape elements.

| Plant Type/ Element                                               | Minimum Size at Installation                                                                                                         | Points                                                | Credits/ Existing Landscaping |                 | New/ Proposed Landscaping |                 |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------|-----------------|---------------------------|-----------------|
|                                                                   |                                                                                                                                      |                                                       | Quantity                      | Points Achieved | Quantity                  | Points Achieved |
| Overstory deciduous tree                                          | 2½ inch caliper measured diameter at breast height (dbh)                                                                             | 35                                                    |                               |                 | 10                        | 350             |
| Tall evergreen tree (i.e. pine, spruce)                           | 5-6 feet tall                                                                                                                        | 35                                                    |                               |                 | 12                        | 420             |
| Ornamental tree                                                   | 1 1/2 inch caliper                                                                                                                   | 15                                                    |                               |                 | 2                         | 30              |
| Upright evergreen shrub (i.e. arborvitae)                         | 3-4 feet tall                                                                                                                        | 10                                                    |                               |                 |                           |                 |
| Shrub, deciduous                                                  | #3 gallon container size, Min. 12”-24”                                                                                               | 3                                                     |                               |                 | 59                        | 177             |
| Shrub, evergreen                                                  | #3 gallon container size, Min. 12”-24”                                                                                               | 4                                                     |                               |                 | 25                        | 100             |
| Ornamental grasses/ perennials                                    | #1 gallon container size, Min. 8”-18”                                                                                                | 2                                                     |                               |                 | 4                         | 8               |
| Ornamental/ decorative fencing or wall                            | n/a                                                                                                                                  | 4 per 10 lineal ft.                                   |                               |                 |                           |                 |
| Existing significant specimen tree                                | Minimum size: 2 ½ inch caliper dbh. *Trees must be within developed area and cannot comprise more than 30% of total required points. | 14 per caliper inch dbh. Maximum points per tree: 200 |                               |                 |                           |                 |
| Landscape furniture for public seating and/or transit connections | * Furniture must be within developed area, publically accessible, and cannot comprise more than 5% of total required points.         | 5 points per “seat”                                   |                               |                 |                           |                 |
| Sub Totals                                                        |                                                                                                                                      |                                                       |                               |                 |                           | 1085            |

**Total Number of Points Provided** 1085

\* As determined by ANSI, ANLA- American standards for nursery stock. For each size, minimum plant sizes shall conform to the specifications as stated in the current American Standard for Nursery Stock.



CITY OF MADISON  
LANDSCAPE WORKSHEET

Section 28.142 Madison General Ordinance

Project Location / Address    3325 Ambassador Drive

Name of Project    The Madison Apartments- New Garage/Storage Building

Owner / Contact    Matt Schreiner, PE

Contact Phone    608.821.3961    Contact Email    msch@vierbicher.com

**\*\* Landscape plans for zoning lots greater than ten thousand (10,000) square feet in size  
MUST be prepared by a registered landscape architect. \*\***

Applicability

The following standards apply to all exterior construction and development activity, including the expansion of existing buildings, structures and parking lots, except the construction of detached single-family and two-family dwellings and their accessory structures. The entire development site must be brought up to compliance with this section unless **all** of the following conditions apply, in which case only the affected areas need to be brought up to compliance:

- (a) The area of site disturbance is less than ten percent (10%) of the entire development site during any ten-(10) year period.
- (b) Gross floor area is only increased by ten percent (10%) during any ten-(10) year period.
- (c) No demolition of a principal building is involved.
- (d) Any displaced landscaping elements must be replaced on the site and shown on a revised landscaping plan.

Landscape Calculations and Distribution

Required landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as that area within a single contiguous boundary which is made up of structures, parking, driveways and docking/loading facilities, but excluding the area of any building footprint at grade, land designated for open space uses such as athletic fields, and undeveloped land area on the same zoning lot. There are three methods for calculating landscape points depending on the size of the lot and Zoning District.

- (a) For all lots except those described in (b) and (c) below, five (5) landscape points shall be provided for each three hundred (300) square feet of developed area.

Total square footage of developed area    2,849

Total landscape points required    48

- (b) **For lots larger than five (5) acres**, points shall be provided at five (5) points per three hundred (300) square feet for the first five (5) developed acres, and one (1) point per one hundred (100) square feet for all additional acres.

Total square footage of developed area

Five (5) acres = 217,800 square feet

First five (5) developed acres = 3,630 points

Remainder of developed area

Total landscape points required

- (c) **For the Industrial – Limited (IL) and Industrial – General (IG) districts**, one (1) point shall be provided per one hundred (100) square feet of developed area.

Total square footage of developed area

Total landscape points required

**Tabulation of Points and Credits**

Use the table to indicate the quantity and points for all existing and proposed landscape elements.

| Plant Type/ Element                                               | Minimum Size at Installation                                                                                                            | Points                                                   | Credits/ Existing Landscaping |                 | New/ Proposed Landscaping |                 |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------|-----------------|---------------------------|-----------------|
|                                                                   |                                                                                                                                         |                                                          | Quantity                      | Points Achieved | Quantity                  | Points Achieved |
| Overstory deciduous tree                                          | 2½ inch caliper measured diameter at breast height (dbh)                                                                                | 35                                                       |                               |                 | 2                         | 70              |
| Tall evergreen tree (i.e. pine, spruce)                           | 5-6 feet tall                                                                                                                           | 35                                                       |                               |                 |                           |                 |
| Ornamental tree                                                   | 1 1/2 inch caliper                                                                                                                      | 15                                                       |                               |                 |                           |                 |
| Upright evergreen shrub (i.e. arborvitae)                         | 3-4 feet tall                                                                                                                           | 10                                                       |                               |                 |                           |                 |
| Shrub, deciduous                                                  | #3 gallon container size, Min. 12”-24”                                                                                                  | 3                                                        |                               |                 | 7                         | 21              |
| Shrub, evergreen                                                  | #3 gallon container size, Min. 12”-24”                                                                                                  | 4                                                        |                               |                 |                           |                 |
| Ornamental grasses/ perennials                                    | #1 gallon container size, Min. 8”-18”                                                                                                   | 2                                                        |                               |                 |                           |                 |
| Ornamental/ decorative fencing or wall                            | n/a                                                                                                                                     | 4 per 10 lineal ft.                                      |                               |                 |                           |                 |
| Existing significant specimen tree                                | Minimum size: 2 ½ inch caliper dbh.<br>*Trees must be within developed area and cannot comprise more than 30% of total required points. | 14 per caliper inch dbh.<br>Maximum points per tree: 200 |                               |                 |                           |                 |
| Landscape furniture for public seating and/or transit connections | * Furniture must be within developed area, publically accessible, and cannot comprise more than 5% of total required points.            | 5 points per “seat”                                      |                               |                 |                           |                 |
| Sub Totals                                                        |                                                                                                                                         |                                                          |                               |                 |                           | 91              |

**Total Number of Points Provided**   91  

\* As determined by ANSI, ANLA- American standards for nursery stock. For each size, minimum plant sizes shall conform to the specifications as stated in the current American Standard for Nursery Stock.





EAST ELEVATION



WEST ELEVATION

**EXTERIOR FINISH PATTERNS**

- ASPHALT SHINGLES
- FIBER CEMENT SIDING
- BRICK



**EXTERIOR FINISH PATTERNS**

-  ASPHALT SHINGLES
-  FIBER CEMENT SIDING
-  BRICK



NORTH ELEVATION



SOUTH ELEVATION



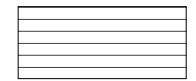
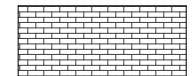


EAST ELEVATION



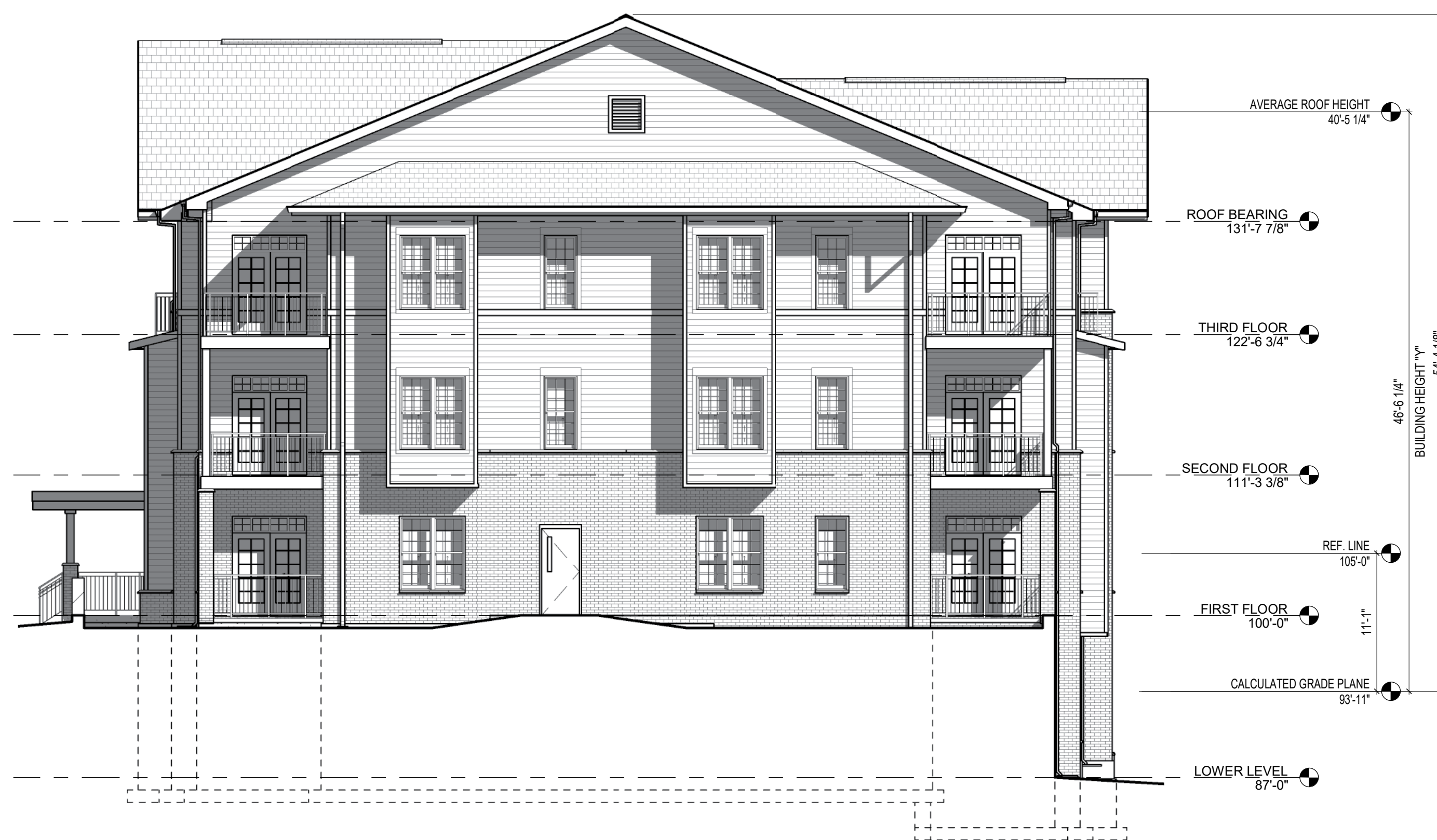
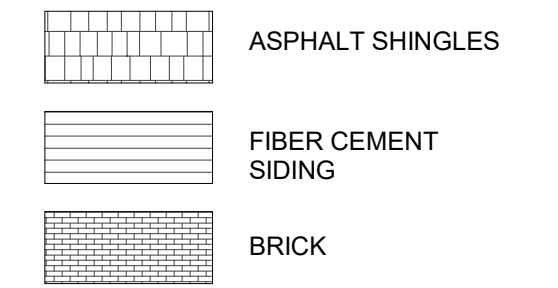
WEST ELEVATION

**EXTERIOR FINISH PATTERNS**

-  ASPHALT SHINGLES
-  FIBER CEMENT SIDING
-  BRICK



**EXTERIOR FINISH PATTERNS**

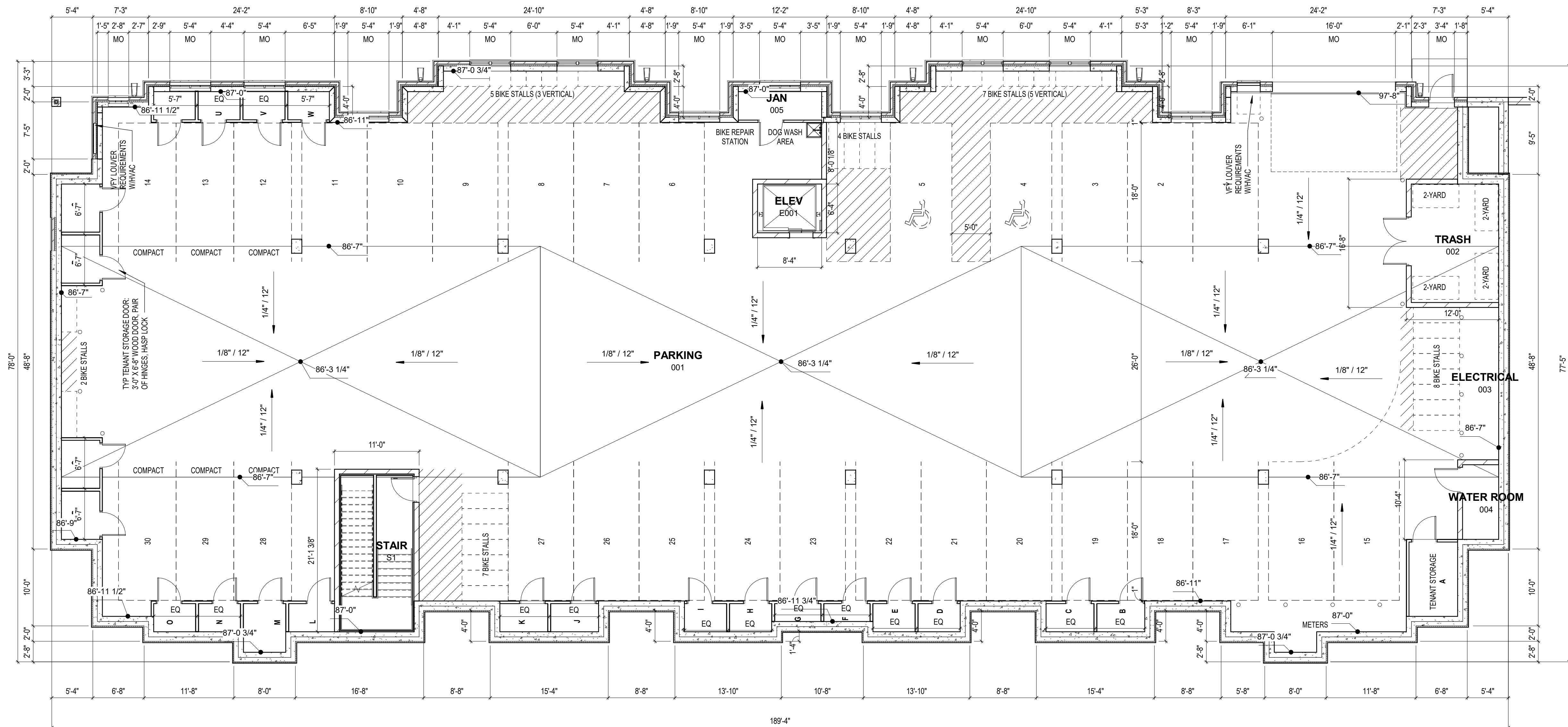


NORTH ELEVATION



SOUTH ELEVATION





PRINT SHEET AT FULL SCALE (22"x34")



0' 5' 10' 20' 40'

PRINT SHEET AT FULL SCALE (22"x34")

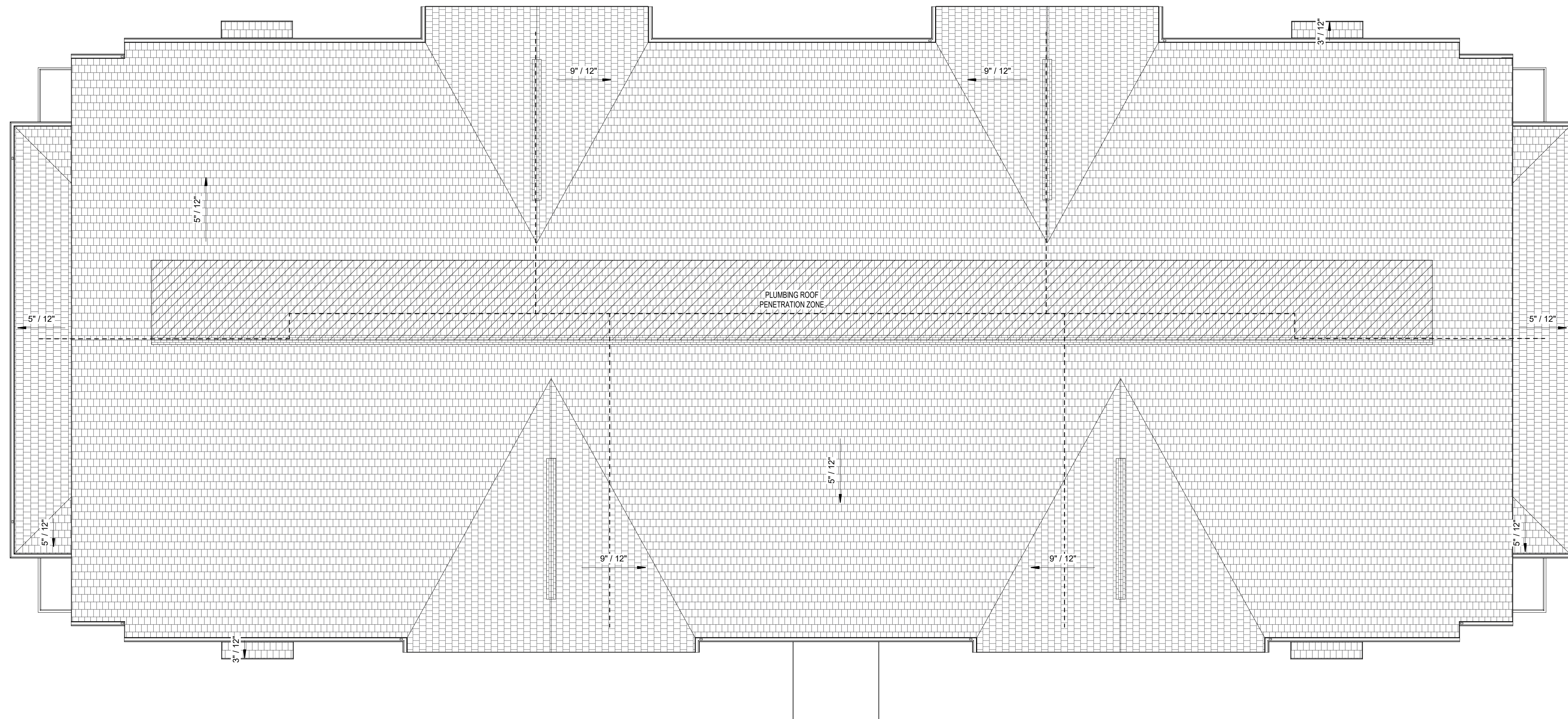


PRINT SHEET AT FULL SCALE (22"x34")

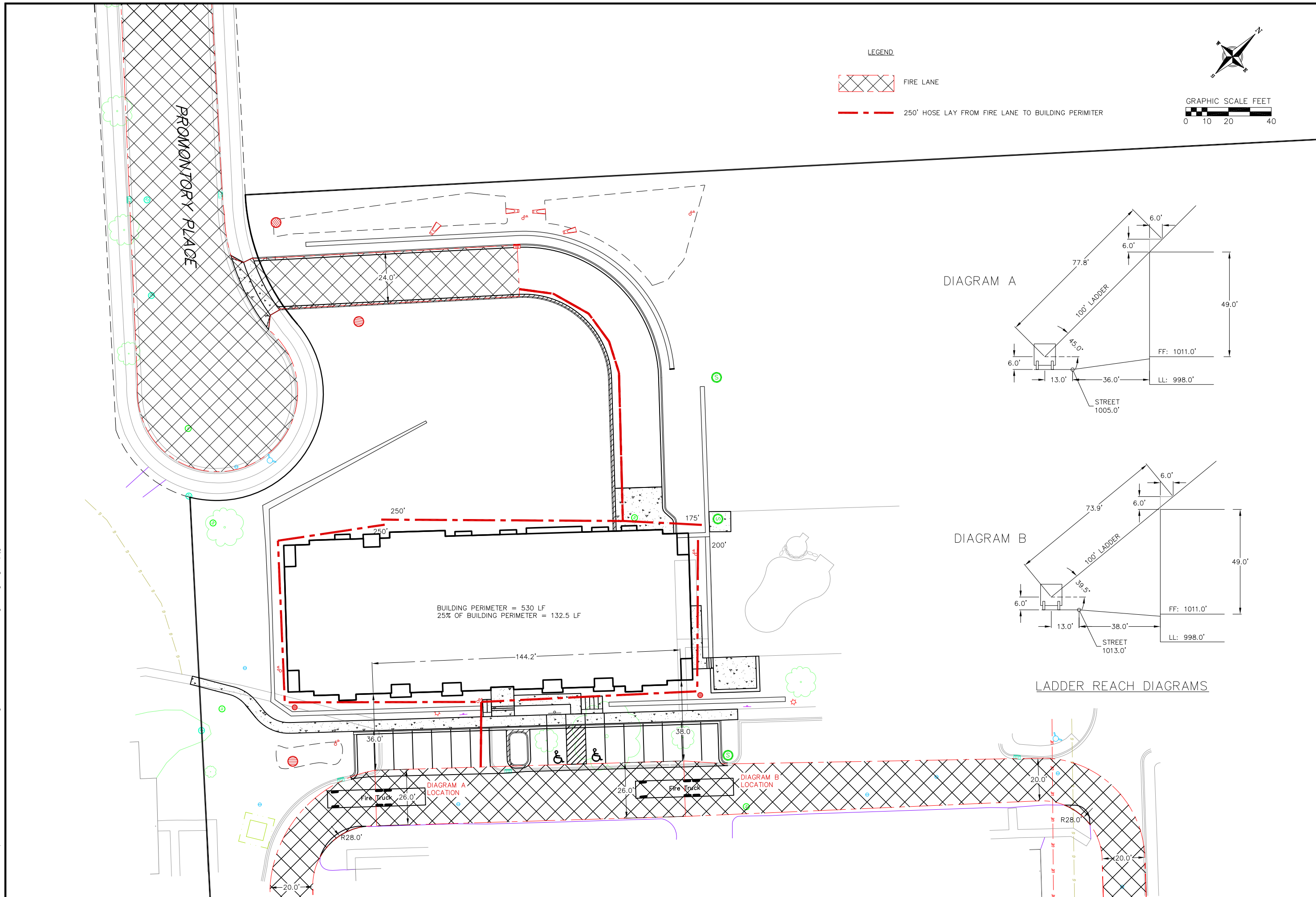


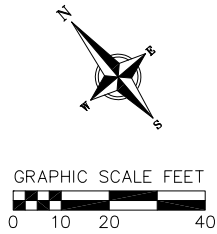
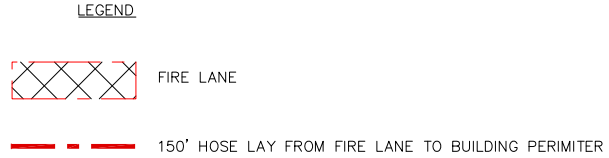
0' 5' 10' 20' 40'

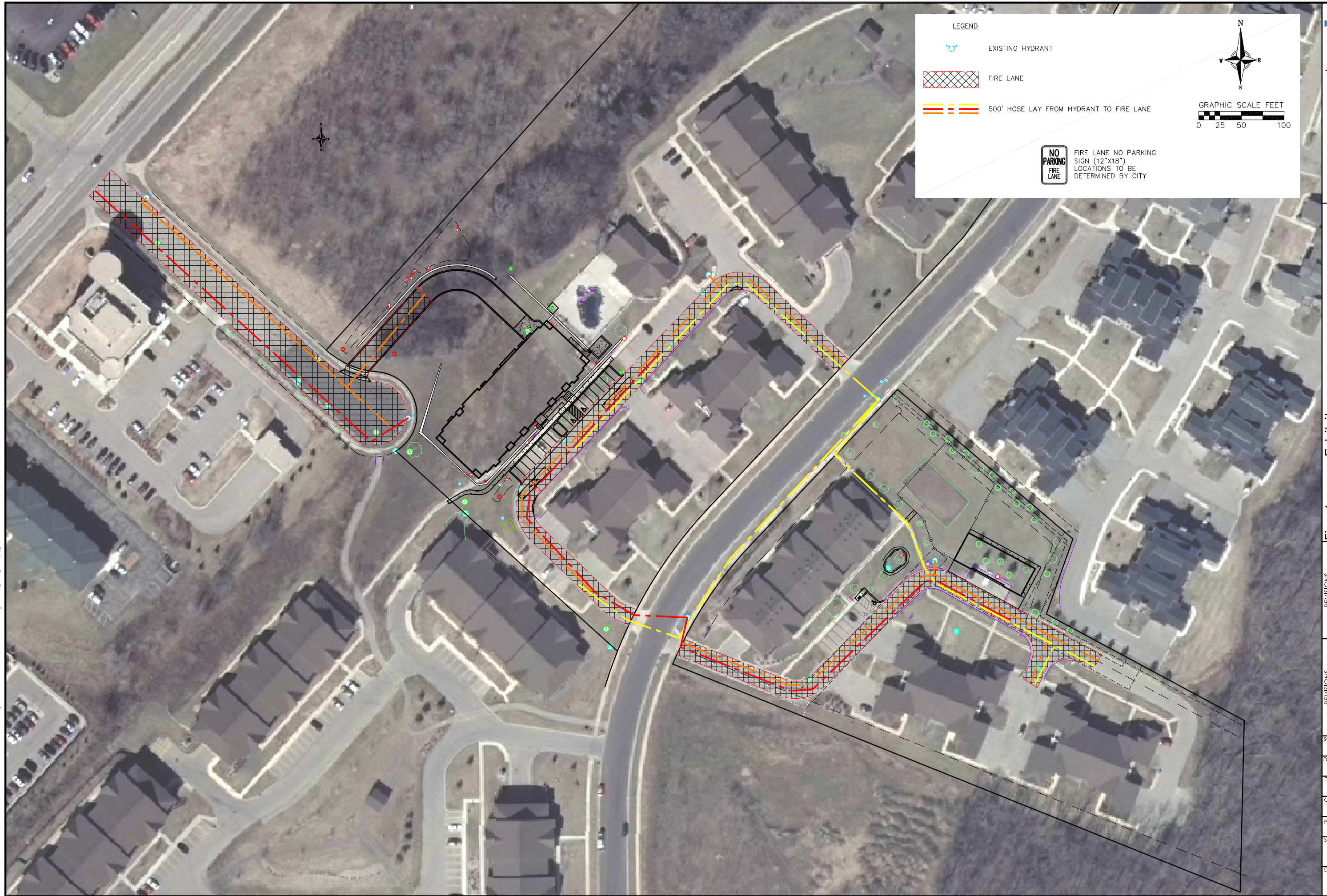
PRINT SHEET AT FULL SCALE (22"x34")



PRINT SHEET AT FULL SCALE (22"x34")







|             |  |          |  |
|-------------|--|----------|--|
| DATE        |  | 10/18/17 |  |
| DRAFTER     |  | JGOL     |  |
| CHECKED     |  | MSCH     |  |
| PROJECT NO. |  | 160314   |  |
| SHEET       |  | 3 OF 3   |  |
| DWG. NO.    |  |          |  |



# City of Madison Fire Department

314 W Dayton Street, Madison, WI 53703-2506

Phone: 608-266-4420 • Fax: 608-267-1100 • E-mail: [fire@cityofmadison.com](mailto:fire@cityofmadison.com)

Project Address: 5422 Congress Ave / 3325 Ambassador Drive

Contact Name & Phone #: Joe Gildsworthy 608-221-3977

## FIRE APPARATUS ACCESS AND FIRE HYDRANT WORKSHEET

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Is the building completely protected by an NFPA 13 or 13R automatic fire sprinkler system?<br><b>If non-sprinklered</b> , fire lanes extend to within 150-feet of all portions of the exterior wall?<br><b>If sprinklered</b> , fire lanes are within 250-feet of all portions of the exterior wall?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes                                                                                                                                                                  | <input checked="" type="checkbox"/> No<br><input type="checkbox"/> No<br><input type="checkbox"/> No                                                                                                                                        | <input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A                                                                                                                                 |
| 2. Is the fire lane constructed of concrete or asphalt, designed to support a minimum load of 85,000 lbs?<br>a) Is the fire lane a minimum unobstructed width of at least 20-feet?<br>b) Is the fire lane unobstructed with a vertical clearance of at least 13½-feet?<br>c) Is the minimum inside turning radius of the fire lane at least 28-feet?<br>d) Is the grade of the fire lane not more than a slope of 8%? <i>OK given by Bill Sullivan</i><br>e) Is the fire lane posted as fire lane? (Provide detail of signage.)<br>f) Is a roll-able curb used as part of the fire lane? (Provide detail of curb.)<br>g) Is part of a sidewalk used as part of the required fire lane? (Must support +85,000 lbs.)                                                                                                                                                                                             | <input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> Yes | <input type="checkbox"/> No<br><input type="checkbox"/> No<br><input type="checkbox"/> No<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> No<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A |
| 3. Is the fire lane obstructed by security gates or barricades? If yes:<br>a) Is the gate a minimum of 20-feet clear opening?<br>b) Is an approved means of emergency operations installed, key vault, padlock or key switch?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> Yes<br><input type="checkbox"/> Yes<br><input type="checkbox"/> Yes                                                                                                                                                                                                   | <input checked="" type="checkbox"/> No<br><input type="checkbox"/> No<br><input type="checkbox"/> No                                                                                                                                        | <input type="checkbox"/> N/A<br><input checked="" type="checkbox"/> N/A<br><input checked="" type="checkbox"/> N/A                                                                                                           |
| 4. Is the Fire lane dead-ended with a length greater than 150-feet?<br>If yes, does the area for turning around fire apparatus comply with IFC D103?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes                                                                                                                                                                                                             | <input type="checkbox"/> No<br><input type="checkbox"/> No                                                                                                                                                                                  | <input type="checkbox"/> N/A<br><input type="checkbox"/> N/A                                                                                                                                                                 |
| 5. Is any portion of the building to be used for high-piled storage in accordance with IFC Chapter 3206.6<br>If yes, see IFC 3206.6 for further requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> Yes                                                                                                                                                                                                                                                                   | <input checked="" type="checkbox"/> No                                                                                                                                                                                                      | <input type="checkbox"/> N/A                                                                                                                                                                                                 |
| 6. Is any part of the building <u>greater than 30-feet</u> above the grade plane?<br>If yes, answer the following questions:<br>a) Is the aerial apparatus fire lane parallel to one entire side of the building and covering at least 25% of the perimeter?<br>b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building? <i>SEE Exhibit</i><br>c) Are there any overhead power or utility lines located across the aerial apparatus fire lane?<br>d) Are there any tree canopies expected to grow across the aerial fire lane? (Based on mature canopy width of tree species)<br>e) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet?<br>f) Is the space between the aerial lane and the building free of trees exceeding 20' in heights?                                                                                                  | <input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> Yes<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes                                                       | <input type="checkbox"/> No<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> No<br><input checked="" type="checkbox"/> No<br><input type="checkbox"/> No<br><input type="checkbox"/> No                                | <input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A                                 |
| 7. Are all portions of the required fire lanes within 500-feet of at least (2) hydrants?<br><i>Note: Distances shall be measured along the path of the hose lay as it comes off the fire apparatus.</i><br>a) Is the fire lane at least 26' wide for at least 20-feet on each side of the hydrants?<br>b) Is there at least 40' between a hydrant and the building?<br>c) Are the hydrant(s) setback no less than 5-feet nor more than 10-feet from the curb or edge of the street or fire lane?<br>d) Are hydrants located in parking lot islands a minimum of 3½-feet from the hydrant to the curb?<br>e) Are there no obstructions, including but not limited to: power poles, trees, bushes, fences, posts located, or grade changes exceeding 1½-feet, within 5-feet of a fire hydrant?<br><i>Note: Hydrants shall be installed and in-service prior to combustible construction on the project site.</i> | <input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes                                 | <input type="checkbox"/> No<br><input type="checkbox"/> No<br><input type="checkbox"/> No<br><input type="checkbox"/> No<br><input type="checkbox"/> No<br><input type="checkbox"/> No                                                      | <input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A<br><input type="checkbox"/> N/A                                 |

Attach an additional sheet if further explanation is required for any answers.

This worksheet is based on **MGO 34.503** and **IFC 2015 Edition Chapter 5 and Appendix D**; please see the codes for further information.

*Plans have been reviewed and approved by Bill Sullivan 3/20/17*