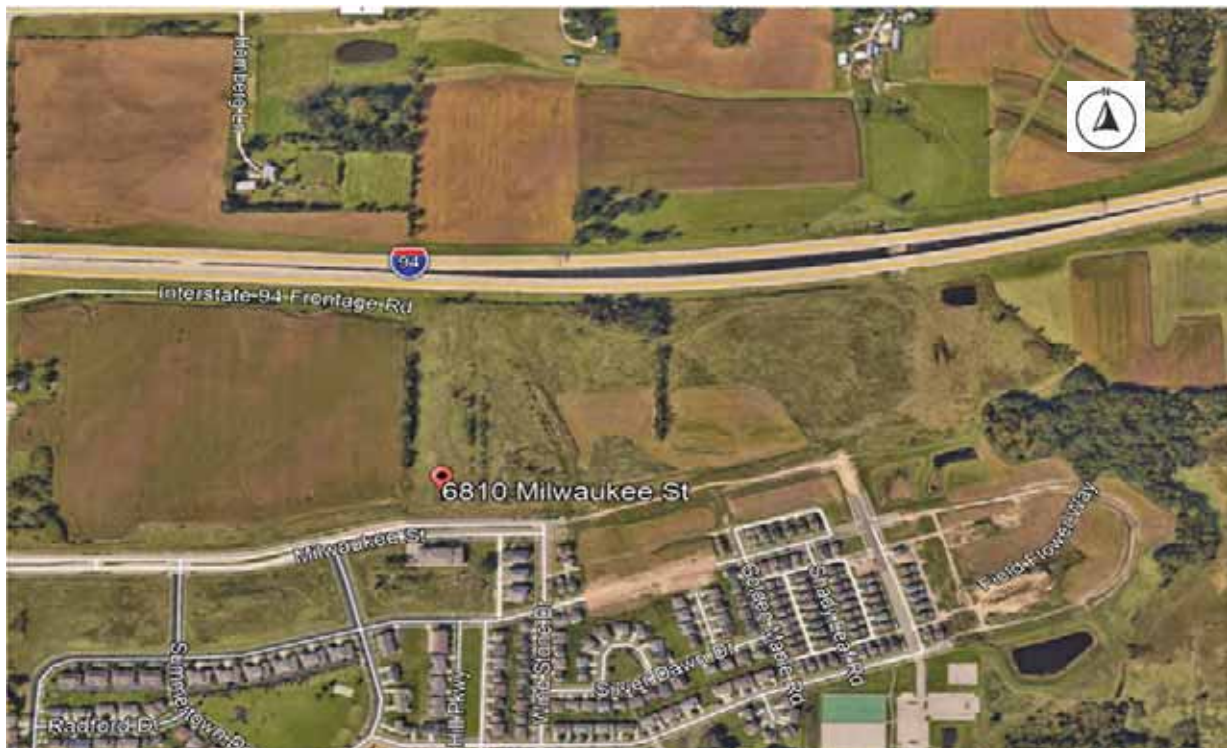
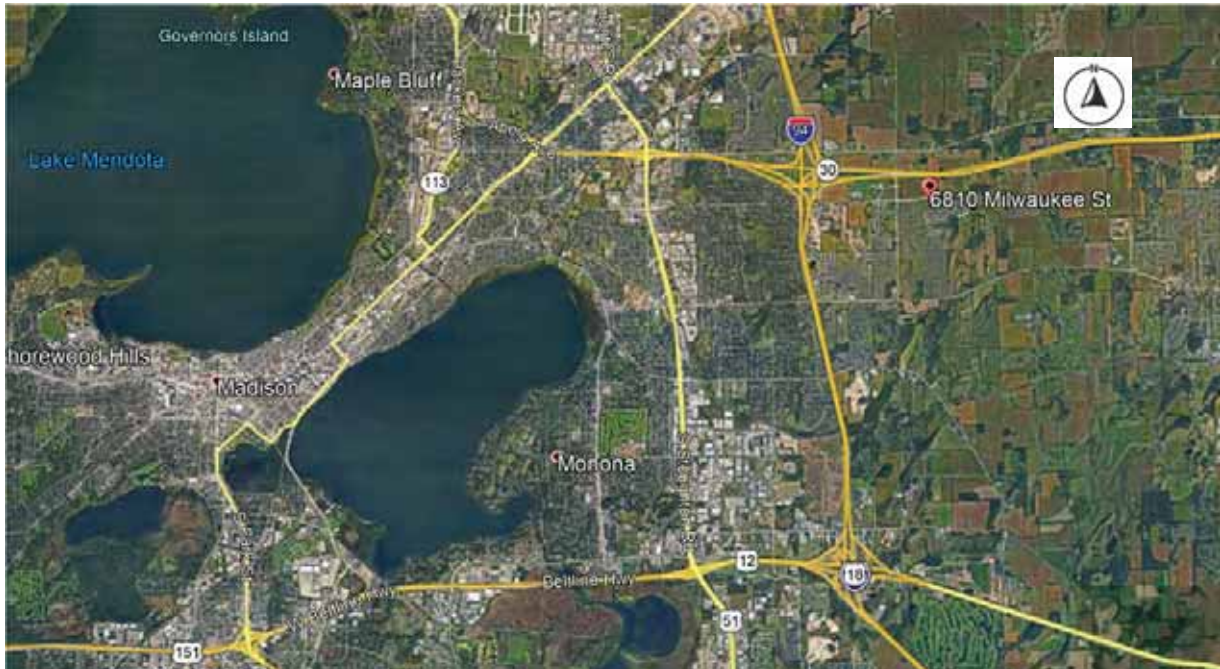




## Locator Maps



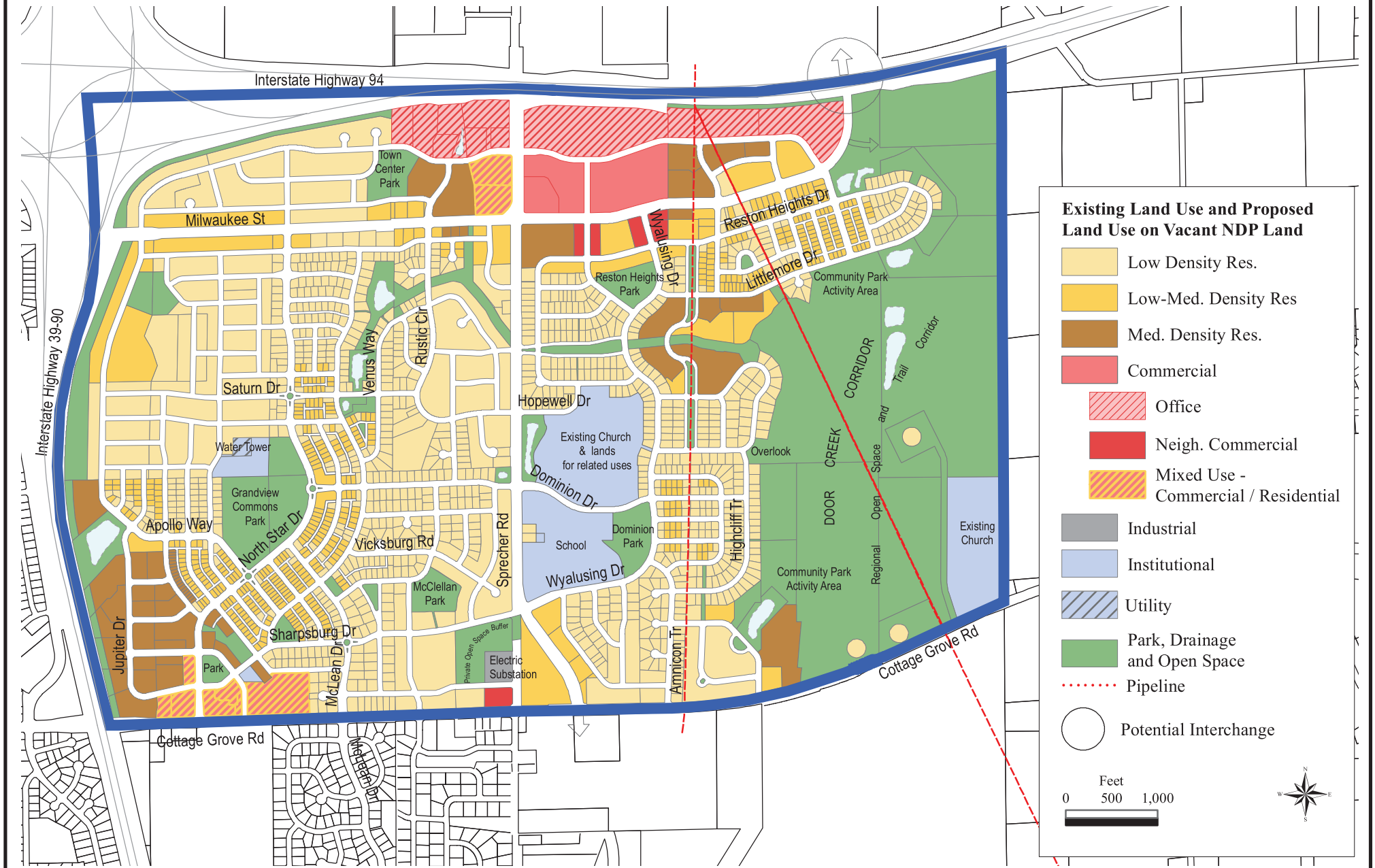
KCG Development

9333 North Meridian Street Suite 230 | Indianapolis, IN | 46260 | (317) 708-0943

[www.kcgcompanies.com](http://www.kcgcompanies.com)

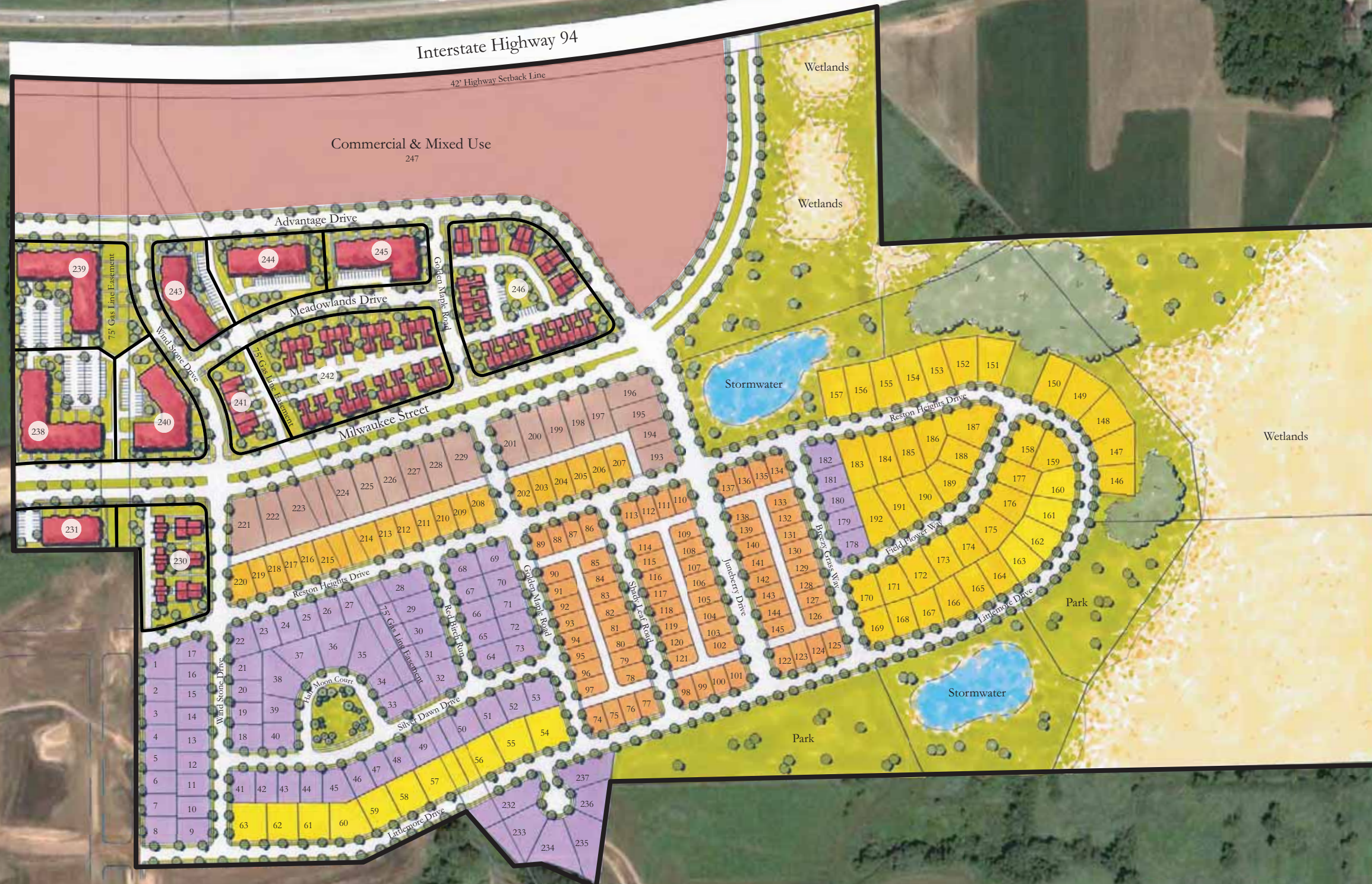
# Sprecher Neighborhood Development Plan

As Adopted January 1998, Amended May 1999, May 2001, November 2001, March 2005 & March 2012  
and implemented through subdivision and zoning approvals



## THE MEADOWLANDS

*Madison, Wisconsin*



|                                                                                     |                              |                  |
|-------------------------------------------------------------------------------------|------------------------------|------------------|
| <b>Single Family (Alley Loaded)</b>                                                 |                              | <b>91 Units</b>  |
|  | 45' x 80'                    | 72 Units         |
|  | 45' x 95'                    | 19 Units         |
| <b>Single Family (Street Accessed)</b>                                              |                              | <b>126 Units</b> |
|  | 59' x 85'                    | 74 Units         |
|  | 69' x 100'                   | 38 Units         |
|  | 80' x 100'                   | 14 Units         |
| <b>Multi-Family</b>                                                                 |                              | <b>341 Units</b> |
|  | Twin Homes                   | 36 Units         |
|  | Multi-Family Units           | 305 Units        |
| <b>Total Units</b>                                                                  |                              | <b>558 Units</b> |
|  | Parks/Open Space/Storm Water | ~ 46 Acres       |

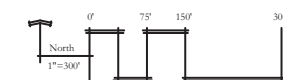
## Multi-Family Lot Breakdowns

| LOT #          | Type of Units | #of Units  | Lot Area          |
|----------------|---------------|------------|-------------------|
| 230            | 4-Unit Homes  | 12         | 62,563 sq. ft.    |
| 231            | Condos        | 22         | 30,369 sq. ft.    |
| 238            | Apartment     | 42         | 79,884 sq. ft.    |
| 239            | Apartment     | 52         | 92,543 sq. ft.    |
| 240            | Apartment     | 26         | 59,853 sq. ft.    |
| 241            | Townhomes     | 5          | 33,550 sq. ft.    |
| 242            | Townhomes     | 32         | 124,863 sq. ft.   |
| 243            | Apartment     | 24         | 40,614 sq. ft.    |
| 244            | Condo         | 24         | 55,830 sq. ft.    |
| 245            | Apartment     | 26         | 42,576 sq. ft.    |
| 246            | Townhomes     | 20         | 121,798 sq. ft.   |
|                | 4-Unit Homes  | 20         |                   |
| <b>Totals:</b> |               | <b>305</b> | <b>17.1 acres</b> |

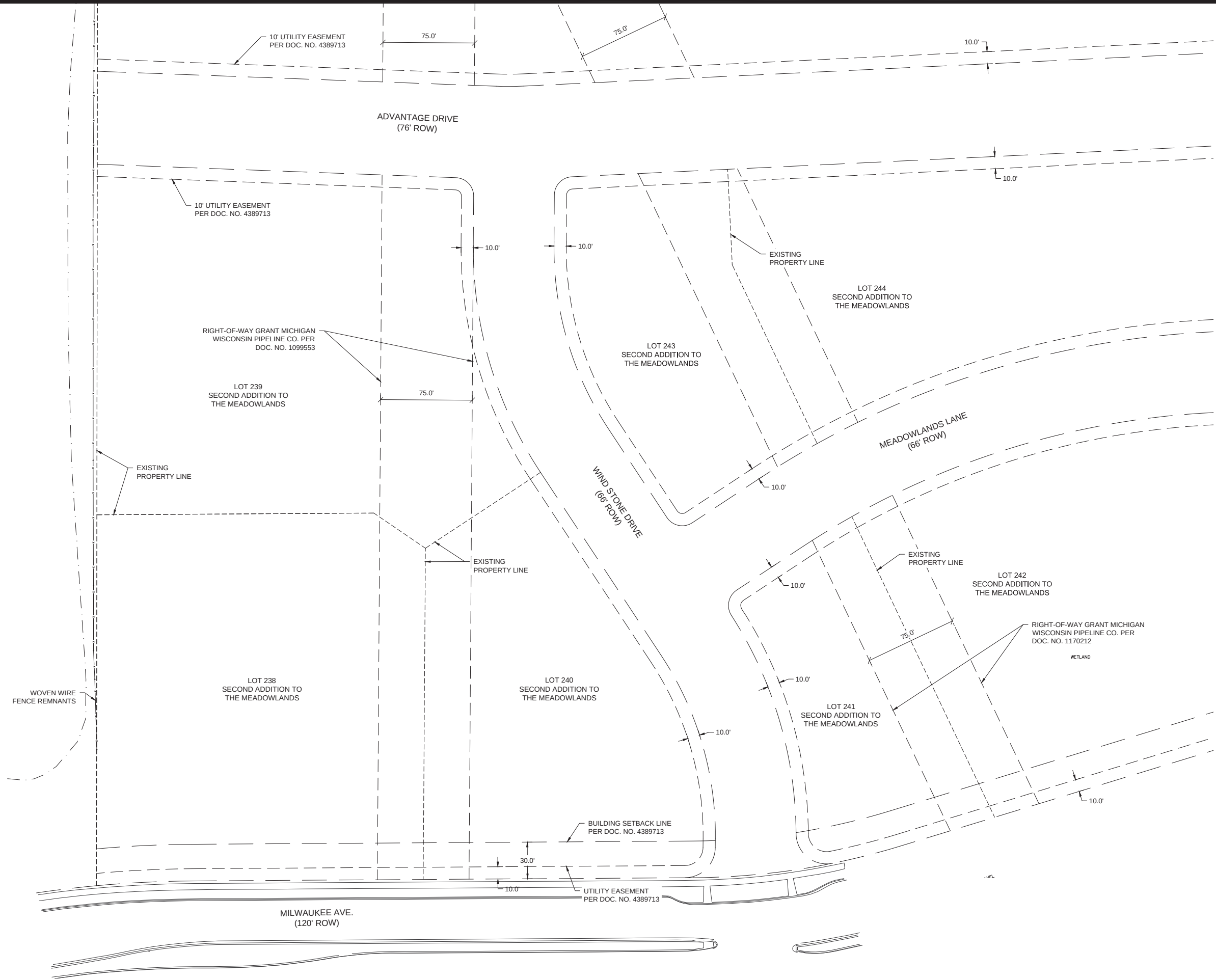


Revised: December 20, 2006

 Vandewalle & Associates  
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# THE MEADOWS - PHASE 11

## EXISTING SITE PLAN

MADISON, WI

**SNYDER & ASSOCIATES, INC.**

5010 VOGES ROAD  
MADISON, WISCONSIN 53718  
608-838-0444 | www.snyder-associates.com

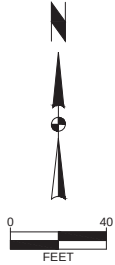
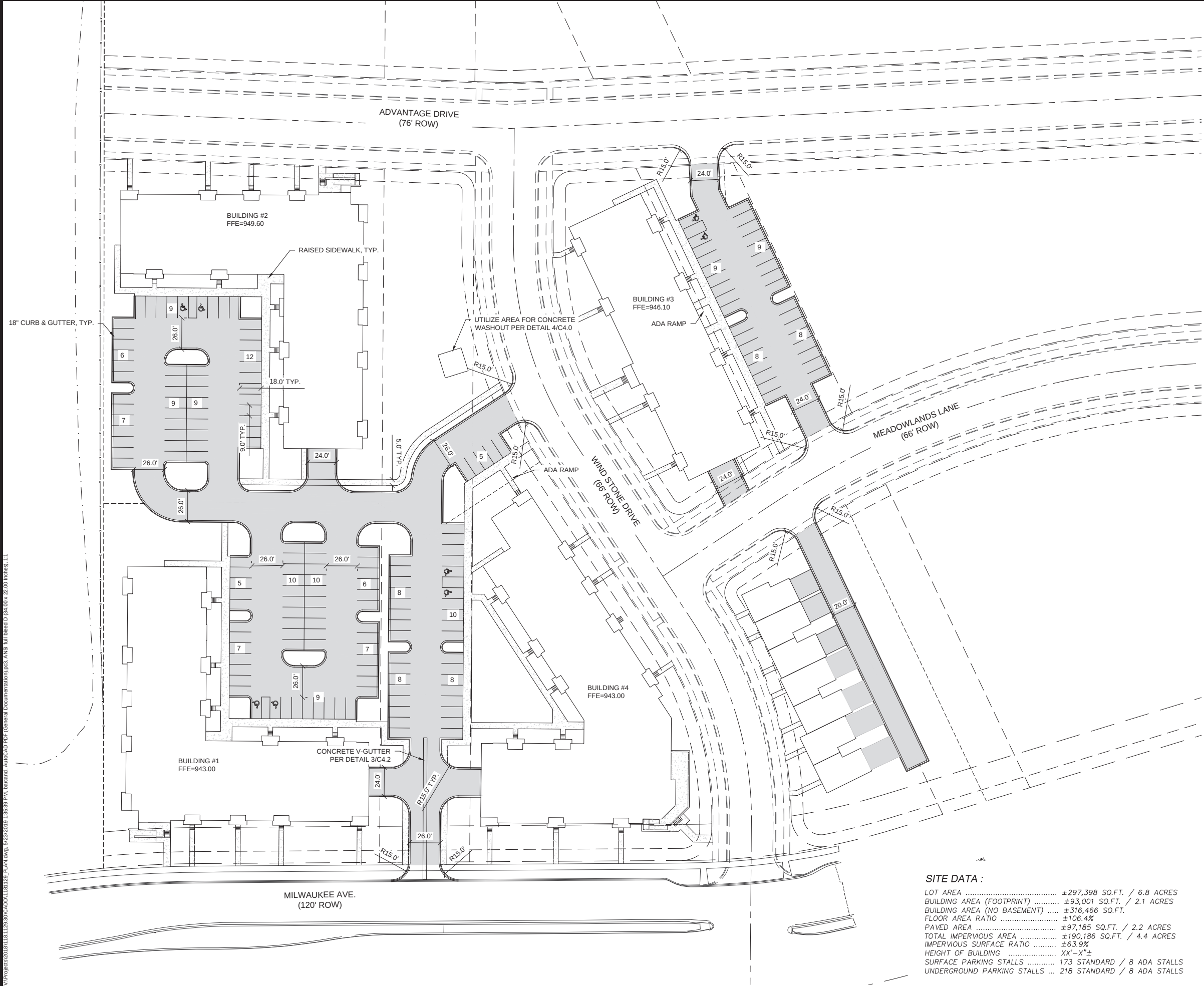


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LEGEND

|  |          |
|--|----------|
|  | ASPHALT  |
|  | CONCRETE |

NOTES

1. STORMWATER MANAGEMENT REQUIREMENTS WILL BE MET UNDERGROUND.
2. CONTRACTOR SHALL REPLACE ALL SIDEWALK AND CURB AND GUTTER WHICH ABUTS THE PROPERTY WHICH IS DAMAGED BY THE CONSTRUCTION OF ANY SIDEWALK AND CURB AND GUTTER WHICH THE CITY ENGINEER DETERMINES NEEDS TO BE REPLACED BECAUSE IT IS NOT AT A DESIRABLE GRADE REGARDLESS OF WHETHER THE CONDITION EXISTED PRIOR TO BEGINNING CONSTRUCTION.
3. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A CITY LICENSED CONTRACTOR.
4. ALL DAMAGE TO THE PAVEMENT ON UNIVERSITY AVENUE AND CAPITOL DRIVE, ADJACENT TO THIS DEVELOPMENT SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF MADISON'S PAVEMENT PATCHING CRITERIA.
5. THE CONTRACTOR SHALL CLOSE ALL ABANDONED DRIVEWAYS BY REPLACING THE CURB IN FRONT OF THE DRIVEWAYS AND RESTORING THE TERRACE WITH GRASS.

GENERAL CONDITIONS

1. THE CONTRACTOR SHALL NOTIFY THE OWNER TWO WORKING DAYS (48 HOURS) PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC, FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
3. SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS.
6. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL CONDUCT HIS WORK ACCORDING TO THE REQUIREMENTS OF THE PERMITS.
7. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGER'S HOTLINE AT 1-800-242-8511 TO NOTIFY THE UTILITIES OF HIS INTENTIONS, AND TO REQUEST FIELD LOCATING OF EXISTING UTILITIES.
8. CONTRACTOR IS ADVISED THAT ALL MUD AND DEBRIS MUST NOT BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE MUNICIPALITY OR OTHER APPROPRIATE GOVERNMENT AGENCIES.
9. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR. THE COST OF THE RESTORATION IS CONSIDERED INCIDENTAL, AND SHOULD BE INCLUDED IN THE BID PRICES.
10. REMOVE SIDEWALKS TO THE NEAREST JOINT.
11. SAW CUTS SHALL BE FULL DEPTH PRIOR TO REMOVAL.
12. CITY FORESTRY WILL ISSUE A REMOVAL PERMIT FOR A 2" DIAMETER HORSECHESTNUT TREE DUE TO CONFLICT WITH PROPOSED DRIVEWAY LOCATED AT 3RD TREE ON UNIVERSITY AVE. FROM CAPITAL AVE. PLEASE CONTACT BRAD HOFMANN - BHOFMANN@CITYOFMADISON.COM OR 266-4816 TO OBTAIN STREET TREE REMOVAL PERMIT.

SITE DATA :

|                                   |                             |
|-----------------------------------|-----------------------------|
| LOT AREA .....                    | ±297,398 SQ.FT. / 6.8 ACRES |
| BUILDING AREA (FOOTPRINT) .....   | ±93,001 SQ.FT. / 2.1 ACRES  |
| BUILDING AREA (NO BASEMENT) ..... | ±316,466 SQ.FT.             |
| FLOOR AREA RATIO .....            | ±106.4%                     |
| PAVED AREA .....                  | ±97,185 SQ.FT. / 2.2 ACRES  |
| TOTAL IMPERVIOUS AREA .....       | ±190,186 SQ.FT. / 4.4 ACRES |
| IMPERVIOUS SURFACE RATIO .....    | ±63.9%                      |
| HEIGHT OF BUILDING .....          | XX'-X"±                     |
| SURFACE PARKING STALLS .....      | 173 STANDARD / 8 ADA STALLS |
| UNDERGROUND PARKING STALLS ...    | 218 STANDARD / 8 ADA STALLS |

THE MEADOWLANDS - PHASE 11

SITE PLAN

MADISON, WI

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SNYDER & ASSOCIATES, INC.

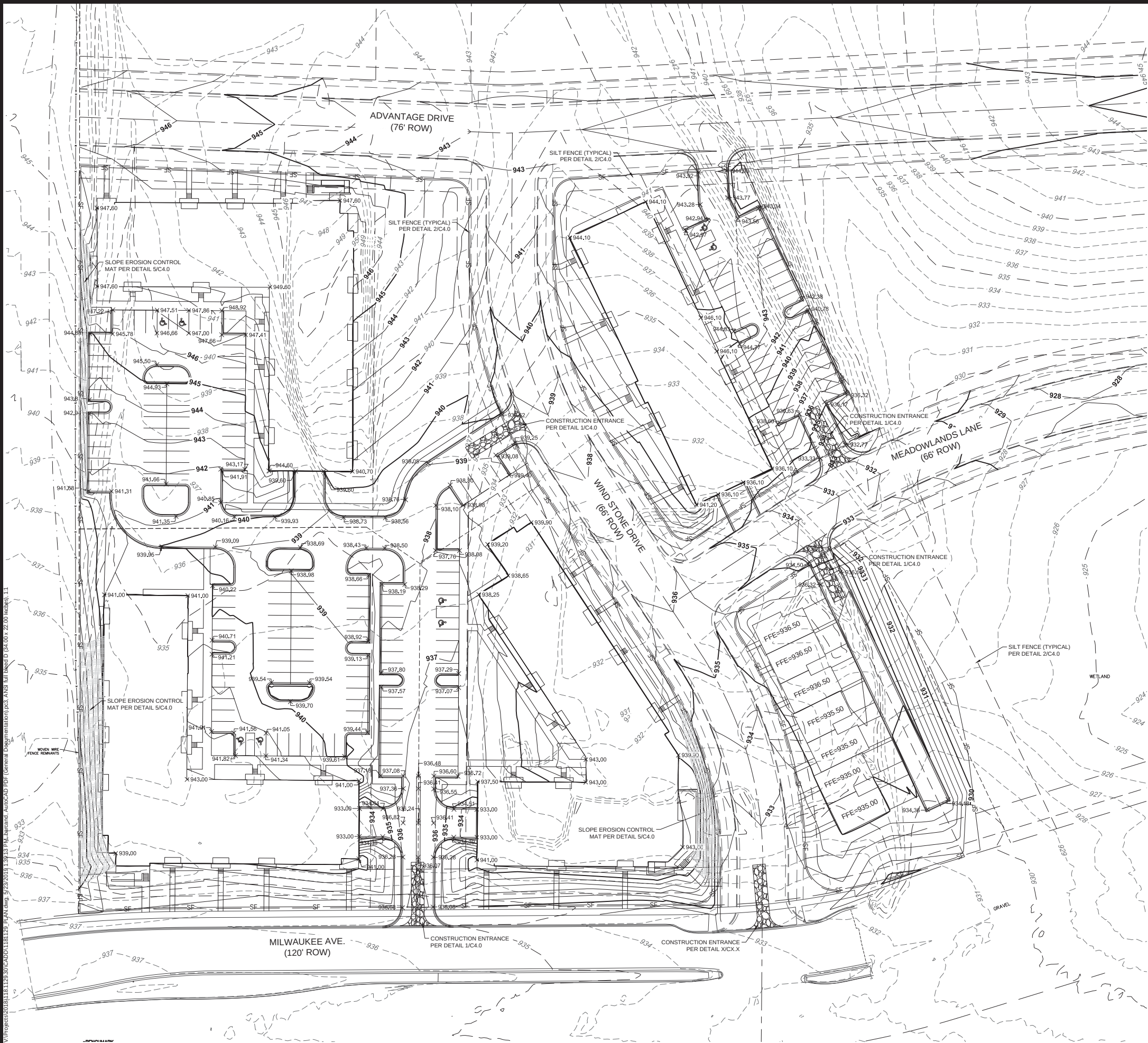


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**EROSION CONTROL**

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS, INCLUDING WPDES DISCHARGE PERMITS (IF APPLICABLE). CONTRACTOR IS RESPONSIBLE FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
2. ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARD.
3. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD.
4. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
5. ALL DISTURBED GROUND LEFT INACTIVE FOR THIRTY DAYS OR MORE SHALL BE STABILIZED WITH TOPSOIL, SEED, AND MULCH IN ACCORDANCE WITH THE WDNR TECHNICAL STANDARDS 1059 AND 1058.
6. DISTURBED AREAS THAT CANNOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION BY SEEDING AND MULCHING DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION, SHALL BE STABILIZED BY APPLYING EROSION MAT IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1050.
7. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE AND DITCH CHECKS WHEN IT REACHES HALF THE HEIGHT OF THE FENCE/BALE THE SILT FENCE AND DITCH CHECKS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
8. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. DEPENDING ON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL TEMPORARY SEDIMENT TRAPS IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT. TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1063.
9. ANY SEDIMENT TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHOULD BE REMOVED BY STREET CLEANING, NOT FLUSHING, BEFORE THE END OF EACH WORKING DAY.
10. DUST CONTROL SHALL BE PROVIDED AS NECESSARY IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
11. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES.
12. REFER TO SPECIFICATION SECTIONS 31 20 00, 31 25 00, 32 91 19, AND 32 92 00.

**GRADING**

1. THE CONTRACTOR SHALL MAINTAIN SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE THE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVIATE WATER PONDING.
2. SILT FENCE AND OTHER EROSION CONTROL FACILITIES MUST BE INSTALLED PRIOR TO CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE SITE HAS BEEN STABILIZED WITH VEGETATION AND THE APPROVAL OF THE GOVERNING AGENCY.
3. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL GRADING, CUT AND FILL CALCULATIONS AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.
4. GRADING SHALL CONSIST OF CLEARING AND GRUBBING EXISTING VEGETATION, STRIPPING TOPSOIL, REMOVAL OF EXISTING PAVEMENT OR FOUNDATIONS, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE AND ON-SITE EARTHWORK BALANCE, GRADING THE BUILDING PADS AND PAVEMENT AREAS, SCARIFYING AND FINAL COMPACTION OF THE PAVEMENT SUBGRADE, AND PLACEMENT OF TOPSOIL.
5. NO FILL SHALL BE PLACED ON A WET OR SOFT SUBGRADE THE SUBGRADE SHALL BE PROOF-ROLLED AND INSPECTED BY THE ENGINEER BEFORE ANY MATERIAL IS PLACED.
6. REFER TO SPECIFICATION SECTIONS 31 20 00, 31 25 00, 32 91 19, AND 32 92 00.

**THE MEADOWLANDS - PHASE 11**

**GRADING PLAN**

**MADISON, WI**

5010 VOGES ROAD  
MADISON, WISCONSIN 53718  
608-838-0444 | www.snyder-associates.com

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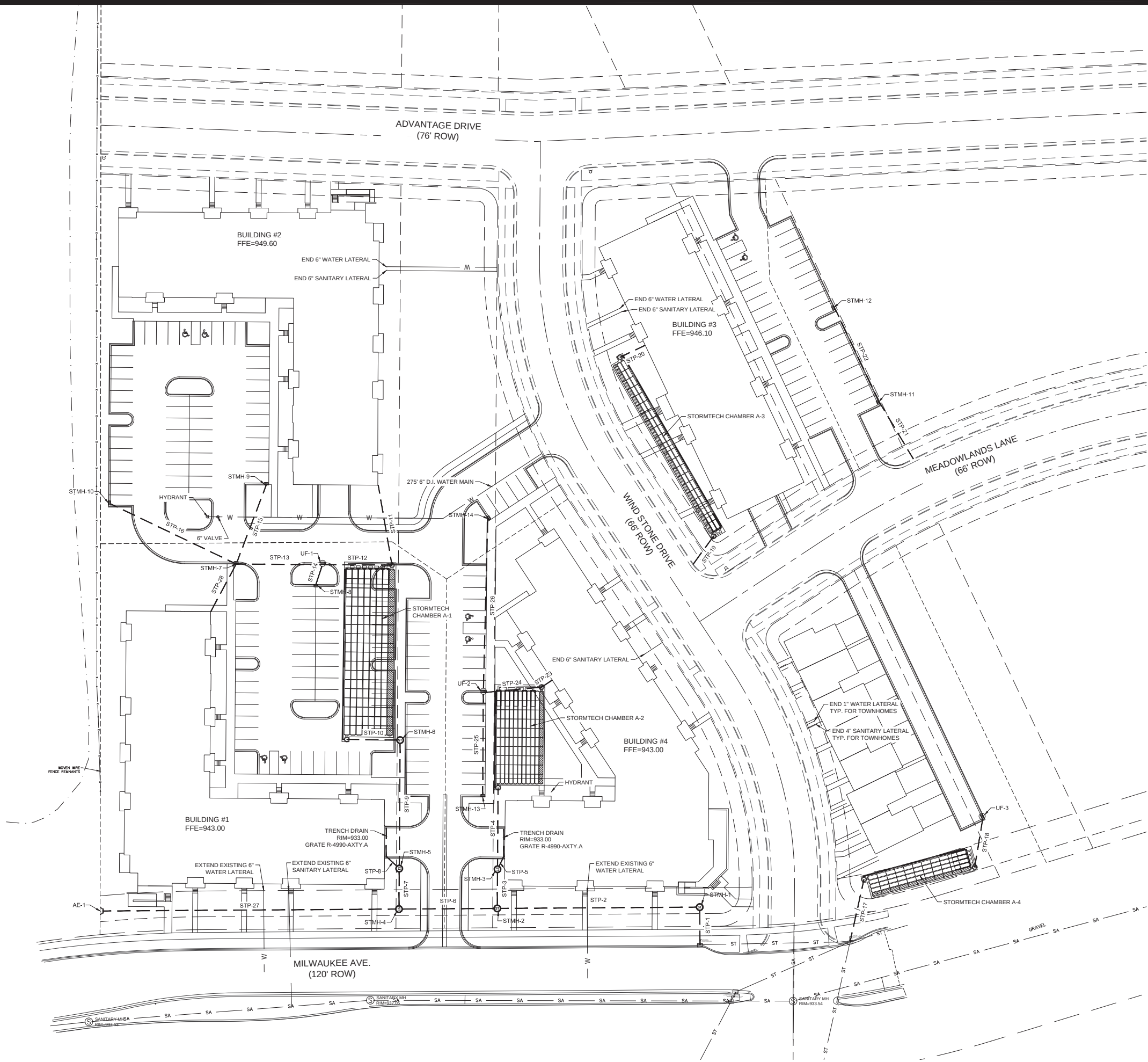


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| STRUCTURE TABLE |        |               |               |                                                      |                                  |
|-----------------|--------|---------------|---------------|------------------------------------------------------|----------------------------------|
| STRUCT #        | RIM EL | STRUCT TYPE   | FRAME/GRATE   | INVERTS IN                                           | INVERTS OUT                      |
| AE-1            | 934.47 | APRON ENDWALL | APRON ENDWALL | INV E = 932.39                                       |                                  |
| STMH-1          | 937.86 | 48" CONC STMH | R-1550        | INV W = 929.56                                       | INV E = 929.56                   |
| STMH-2          | 937.75 | 48" CONC STMH | R-1550        | INV W = 930.35<br>INV N = 930.35                     | INV E = 930.35                   |
| STMH-3          | 937.55 | 48" CONC STMH | R-1550        | INV N = 930.50<br>INV NE = 930.50                    | INV E = 930.50                   |
| STMH-4          | 938.23 | 48" CONC STMH | R-1550        | INV N = 931.23                                       | INV E = 930.73<br>INV W = 931.23 |
| STMH-5          | 937.62 | 48" CONC STMH | R-1550        | INV N = 931.39<br>INV NW = 931.39                    | INV S = 931.39                   |
| STMH-6          | 938.89 | 48" CONC STMH | R-1550        | INV W = 932.48                                       | INV S = 932.48                   |
| STMH-7          | 939.57 | 2' X 3' CI    | R-3067        | INV NW = 935.61<br>INV SW = 935.61<br>INV N = 935.61 | INV E = 935.36                   |
| STMH-8          | 939.42 | 2' X 3' CI    | R-3067        |                                                      | INV N = 936.16                   |
| STMH-9          | 943.03 | 2' X 3' CI    | R-3067        |                                                      | INV S = 939.11                   |
| STMH-10         | 942.19 | 2' X 3' CI    | R-3067        |                                                      | INV SE = 938.12                  |
| STMH-11         | 936.97 | 2' X 3' CI    | R-1550        | INV NW = 931.00                                      | INV SE = 931.00                  |
| STMH-12         | 942.86 | 2' X 3' CI    | R-1550        |                                                      | INV SE = 935.28                  |
| STMH-13         | 936.70 | 2' X 3' CI    | R-3067        |                                                      | INV N = 932.66                   |
| STMH-14         | 938.90 | 2' X 3' CI    | R-3067        |                                                      | INV S = 934.92                   |
| UF-1            | 939.14 | UPFLOW FILTER | R-3067        | INV W = 933.88<br>INV S = 935.64                     | INV E = 933.63                   |
| UF-2            | 937.22 | UPFLOW FILTER | R-3067        | INV N = 931.60<br>INV S = 931.60                     | INV E = 931.60                   |
| UF-3            | 934.65 | UPFLOW FILTER | R-3067        |                                                      | INV S = 930.44                   |

| STORM PIPE TABLE |                 |              |          |         |             |           |         |       |
|------------------|-----------------|--------------|----------|---------|-------------|-----------|---------|-------|
| PIPE NAME        | PIPE TYPE       | SIZE (IN.)   | FROM     | TO      | LENGTH (FT) | START INV | END INV | SLOPE |
| STP-1            | CORRUGATED HDPE | 30           | EX INLET |         | 29          | 929.56    | 929.41  | 0.50% |
| STP-2            | CORRUGATED HDPE | 30           | STMH-2   | STMH-1  | 157         | 930.35    | 929.56  | 0.50% |
| STP-3            | CORRUGATED HDPE | 15           | STMH-3   | STMH-2  | 30          | 930.50    | 930.35  | 0.50% |
| STP-4            | CORRUGATED HDPE | A-2          |          | STMH-3  | 63          | 931.00    | 930.50  | 0.79% |
| STP-5            | CORRUGATED HDPE | TRENCH DRAIN |          | STMH-3  | 11          | 931.00    | 930.50  | 4.72% |
| STP-6            | CORRUGATED HDPE | 30           | STMH-4   | STMH-2  | 76          | 930.73    | 930.35  | 0.50% |
| STP-7            | CORRUGATED HDPE | 15           | STMH-5   | STMH-4  | 31          | 931.39    | 931.23  | 0.50% |
| STP-8            | CORRUGATED HDPE | TRENCH DRAIN |          | STMH-5  | 14          | 931.46    | 931.39  | 0.50% |
| STP-9            | CORRUGATED HDPE | 15           | STMH-6   | STMH-5  | 100         | 932.48    | 931.39  | 1.09% |
| STP-10           | CORRUGATED HDPE | A-1          |          | STMH-6  | 41          | 933.13    | 932.48  | 1.57% |
| STP-11           | CORRUGATED HDPE | BUILDING #2  | A-1      |         | 63          | 933.76    | 933.13  | 1.00% |
| STP-12           | CORRUGATED HDPE | 18           | A-1      |         | 54          | 933.63    | 933.13  | 0.93% |
| STP-13           | CORRUGATED HDPE | 15           | STMH-7   | UF-1    | 67          | 935.36    | 933.88  | 2.21% |
| STP-14           | CORRUGATED HDPE | 12           | STMH-8   | UF-1    | 16          | 936.16    | 935.64  | 3.19% |
| STP-15           | CORRUGATED HDPE | 12           | STMH-9   | STMH-7  | 66          | 939.11    | 935.61  | 5.34% |
| STP-16           | CORRUGATED HDPE | 12           | STMH-10  | STMH-7  | 110         | 938.12    | 935.61  | 2.28% |
| STP-17           | CORRUGATED HDPE | A-4          | EX INLET |         | 50          | 928.25    | 927.75  | 1.01% |
| STP-18           | CORRUGATED HDPE | 12           | A-4      |         | 40          | 930.44    | 928.25  | 5.41% |
| STP-19           | CORRUGATED HDPE | A-3          | EX INLET |         | 27          | 933.00    | 932.79  | 0.79% |
| STP-20           | CORRUGATED HDPE | BUILDING #3  | A-3      |         | 22          | 933.22    | 933.00  | 1.00% |
| STP-21           | CORRUGATED HDPE | 12           | EX INLET |         | 52          | 931.00    | 927.82  | 6.16% |
| STP-22           | CORRUGATED HDPE | 12           | STMH-12  | STMH-11 | 81          | 935.28    | 931.00  | 5.28% |
| STP-23           | CORRUGATED HDPE | BUILDING #4  | A-2      |         | 10          | 931.10    | 931.00  | 1.00% |
| STP-24           | CORRUGATED HDPE | 12           | A-2      |         | 46          | 931.60    | 931.00  | 1.32% |
| STP-25           | CORRUGATED HDPE | 12           | STMH-13  | UF-2    | 81          | 932.66    | 931.60  | 1.31% |
| STP-26           | CORRUGATED HDPE | 12           | STMH-14  | UF-2    | 135         | 934.92    | 931.60  | 2.46% |
| STP-27           | CORRUGATED HDPE | 24           | STMH-4   | AE-1    | 232         | 931.23    | 932.39  | 0.50% |
| STP-28           | CORRUGATED HDPE | BUILDING #1  |          | STMH-7  | 42          | 935.95    | 935.61  | 0.81% |
| TRENCH DRAIN 1   | CORRUGATED HDPE | 6            |          |         | 22          | 931.11    | 931.00  | 0.50% |
| TRENCH DRAIN 2   | CORRUGATED HDPE | 6            |          |         | 22          | 931.57    | 931.46  | 0.50% |

THE MEADOWLANDS - PHASE 11

UTILITY PLAN



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MADISON, WI

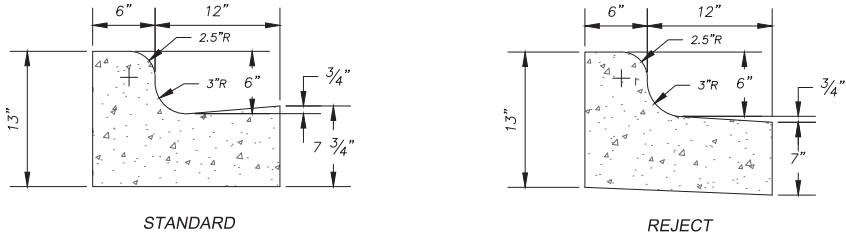
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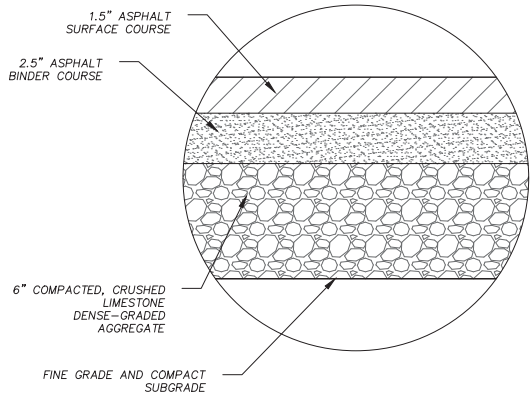
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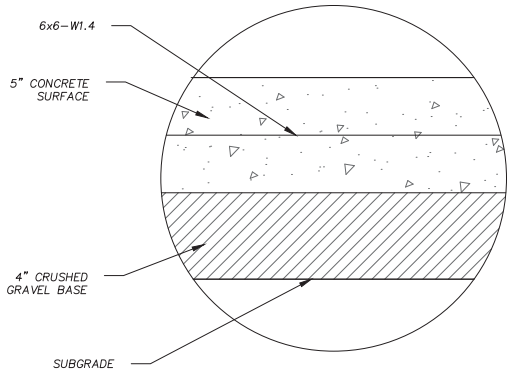
NOTES:

1. LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH. EXPANSION JOINTS SHALL BE PLACED TRANSVERSELY AT RADIUS POINTS ON CURVES OF RADIUS 200' OR LESS, AND AT ANGLE POINTS, OR AS DIRECTED BY THE ENGINEER.
2. THE EXPANSION JOINT SHALL BE A ONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE 1/2" THICK. IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED STONE.

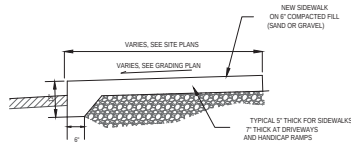
1 CONCRETE CURB & GUTTER  
C4.1 SCALE: NTS



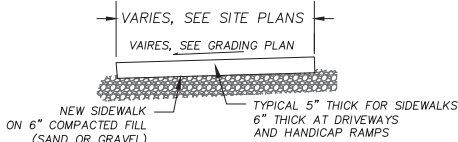
2 LIGHT DUTY ASPHALT PAVING DETAIL  
C4.1 SCALE: NTS



3 DUMPSTER PAD LOADING CONCRETE DETAIL  
C4.1 SCALE: NTS



THICKENED EDGE



TYPICAL

4 CONCRETE SIDEWALK DETAILS  
C4.1 SCALE: NTS

PAVEMENT AND CURB NOTES

1. THE IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O. T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LA TEST EDITION, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
2. PAVING SHALL CONSIST OF FINE GRADING PAVEMENT AREAS, INSTALLATION OF CRUSHED STONE BASE, CONCRETE AND/OR BITUMINOUS PAVEMENT, PAVEMENT MARKING, AND CLEANUP. ALL MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR.
3. AGGREGATES USED IN THE CRUSHED AGGREGATE BASE SHALL BE (\*-INCH) DENSE GRADED BASE IN ACCORDANCE WITH SUBSECTION 305.2.2 OF THE STANDARD SPECIFICATIONS.
4. HOT MIX ASPHALT PAVEMENT (HMA) SHALL BE SUPERPAVE (E-\*\*) IN ACCORDANCE WITH SECTION 460 OF THE STANDARD SPECIFICATIONS.
5. ASPHALTIC MATERIALS SHALL BE PERFORMANCE GRADED (PG) BINDERS IN ACCORDANCE WITH SECTION 455 OF THE STANDARD SPECIFICATIONS. UPPER LAYERS SHALL BE PG{\*\*\*}, AND LOWER LAYERS SHALL BE PG{\*\*\*}.
6. AGGREGATES USED IN THE HMA SHALL BE IN ACCORDANCE WITH SUBSECTION 460.2.2.3 OF THE STANDARD SPECIFICATIONS. THE NOMINAL AGGREGATE SIZE FOR THE UPPER LAYER PAVEMENT SHALL BE {\*\*\*\*}, AND THE LOWER LAYER PAVEMENT SHALL BE {\*\*\*\*}.
7. TACK COAT SHALL BE IN ACCORDANCE WITH SUBSECTION 455.2.5 OF THE STANDARD SPECIFICATIONS. THE RATE OF APPLICATION SHALL BE 0.025 GAL/SY.
8. CONCRETE FOR CURB, DRIVEWAY, WALKS AND NON-FLOOR SLABS SHALL BE GRADE A (OR GRADE A2 IF PLACING BY SLIP-FORMED PROCESS) AIR ENTRAINED IN ACCORDANCE WITH SECTION 501 FOR THE STANDARD SPECIFICATIONS, WITH A MINIMUM 28 DA Y COMPRESSIVE STRENGTH OF 3,500 PSI.
9. CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS:  
SECTION 415 FOR CONCRETE PAVEMENT  
SECTION 601 FOR CONCRETE CURB AND GUTTER  
SECTION 602 FOR CONCRETE SIDEWALKS.
10. ALL FINISHED CONCRETE SHALL BE COVERED WITH A LIQUID CURING COMPOUND CONFORMING TO AASHTO M 148, TYPE 2, IN ACCORDANCE WITH SECTION 415 OF THE STANDARD SPECIFICATIONS.
11. PAVEMENT MARKINGS SHALL BE PAINT IN ACCORDANCE WITH SECTION 646 OF THE STANDARD SPECIFICATIONS. (COLOR SHALL BE AS INDICATED ON THE PLANS.) THE FOLLOWING ITEMS SHALL BE PAINTED WITH COLORS NOTED BELOW:  
PARKING STALLS: WHITE  
PEDESTRIAN CROSSWALKS: WHITE  
LANE STRIPING WHERE SEPARATING TRAFFIC IS MOVING IN OPPOSITE DIRECTIONS: YELLOW  
LANE STRIPING WHERE SEPARATING TRAFFIC IS MOVING IN SAME DIRECTIONS: WHITE  
ADA SYMBOLS: BLUE OR PER LOCAL CODE  
FIRE LANES: PER LOCAL CODE  
EXTERIOR SIDEWALK CURBED, LIGHT POLE BASES, AND GUARD POSTS: YELLOW

NOTE: PAVEMENT SHALL BE DESIGNED BY GEOTECHNICAL ENGINEER. MISSING INFORMATION ABOVE, DESIGNATED WITH (\*), SHALL BE FILLED IN PER GEOTECHNICAL REPORT. CAUTION: INFORMATION BELOW SHALL BE USED ONLY AS A GUIDE.

\* DENSE GRADED BASE GRADATIONS: 3-INCH, 1 1/4-INCH, OR 3/4-INCH (TYPICALLY 1 1/4-INCH)

\*\* HMA SUPERPAVE TYPES: E-0.3, E-1, E-3, E-10, E-30 (TYPICALLY E-0.3 OR E-1 FOR MOST RESIDENTIAL AND COMMERCIAL PROJECTS)

\*\*\* PG BINDERS:  
64-22 BASIC ASPHALT, TYPICALLY USED FOR PARKING LOTS  
58-28 RECOMMENDED FOR OVERLAY PROJECTS  
64-28 POLYMER ADDED, HIGH COST ASPHALT, LARGEST RANGE OF TEMP.  
UPPER LAYER PG64-28, PG64-22, OR PG58-28  
LOWER LAYER PG64-22 (IF UPPER LAYER IS PG64-xx OR HIGHER), OR PG58-28

\*\*\*\* HMA AGGREGATE GRADATIONS: 37.5 MM, 25.0 MM, 19.0 MM, 12.5 MM, 9.5 MM (TYPICALLY 12.5 MM FOR UPPER LAYER, 19.0 MM FOR LOWER LAYER)

THE MEADOWLANDS - PHASE 11

SITE DETAILS

MADISON, WI

5010 VOGES ROAD  
MADISON, WISCONSIN 53718  
608-838-0444 | www.snyder-associates.com

SNYDER & ASSOCIATES, INC.



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MADISON, WI

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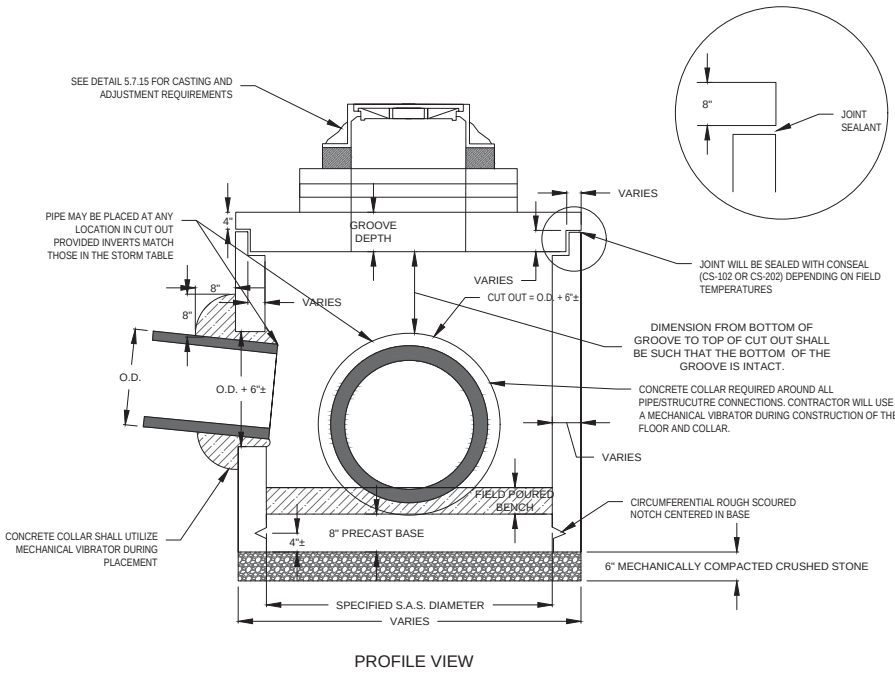
SNYDER & ASSOCIATES, INC.



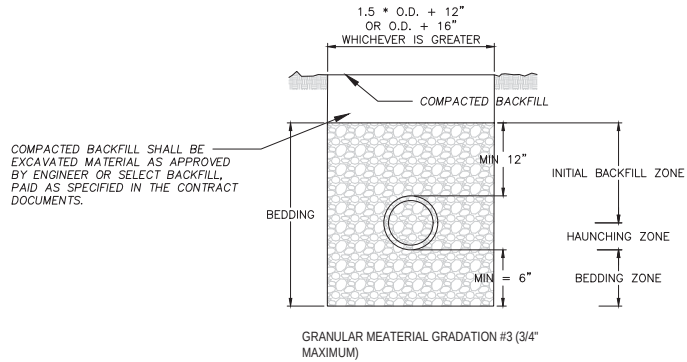
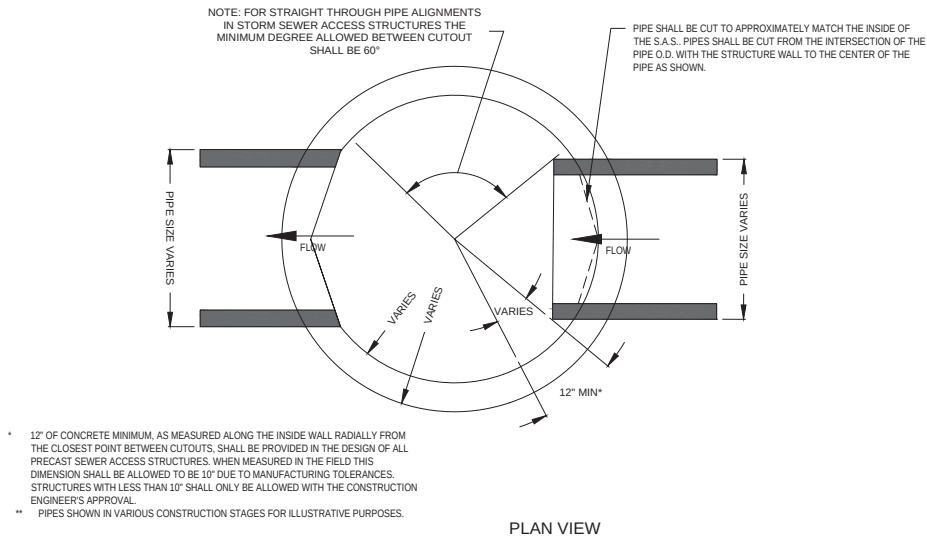
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NOTE: ALL STORM SEWER ACCESS STRUCTURES (S.A.S.) SHALL BE CONSTRUCTED IN COMPLIANCE WITH ASTM C478.



NOTES:

UNLESS OTHERWISE SPECIFIED, ALL SANITARY AND STORM SEWER PIPES, INCLUDING LATERALS AND LEADS, SHALL BE INSTALLED WITH THE TYPE OF BEDDING SHOWN FOR THE TYPE AND SIZE OF PIPE INSTALLED.

THE COST OF BEDDING SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PIPE. FOR RCP, BEDDING INCLUDES THE HAUNCHING & BEDDING ZONES. FOR PLASTIC PIPES, THE BEDDING INCLUDES THE HAUNCHING, BEDDING & INITIAL BACKFILL ZONES. THE BEDDING SHALL BE INSTALLED & COMPACTED IN 6" MAXIMUM LIFTS.

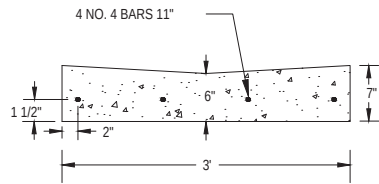
ALL TRENCHES SHALL BE HAND BACKFILLED TO A POINT 12" ABOVE THE TOP OF THE PIPE. ALL BEDDING SHALL BE MECHANICALLY COMPACTED.

PAYMENT SHALL NOT BE MADE FOR BACKFILL WITH EXCAVATED MATERIAL, IF APPROVED. SELECT FILL IF REQUIRED. SHALL BE PAID PER CONTRACT.

THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE O.D. +24" AND MINIMUM OF O.D. +16" AS SPECIFIED, AND SHALL APPLY FROM THE BOTTOM OF THE TRENCH TO A POINT 12" ABOVE THE TOP OF THE PIPE. WHERE THIS WIDTH IS EXCEEDED, THE CONTRACTOR SHALL FURNISH AND INSTALL A HIGHER TYPE OF BEDDING AT NO EXTRA COST. THE TYPE OF BEDDING SHALL BE DETERMINED BY THE ENGINEER.

O.D. EQUALS THE OUTSIDE DIAMETER OF THE PIPE.

2 STORM PIPE BEDDING AND BACKFILL  
C4.2 SCALE: NTS



3 V-GUTTER DETAIL  
C4.2 SCALE: NTS

THE MEADOWLANDS - PHASE 11

UTILITY DETAILS

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# The Meadowlands (A-1)

## Madison, WI

### STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUAL.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
  - a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
  - b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
  - c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

### IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.  
  
STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONESHOOTER LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

### NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
  - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER TIERED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

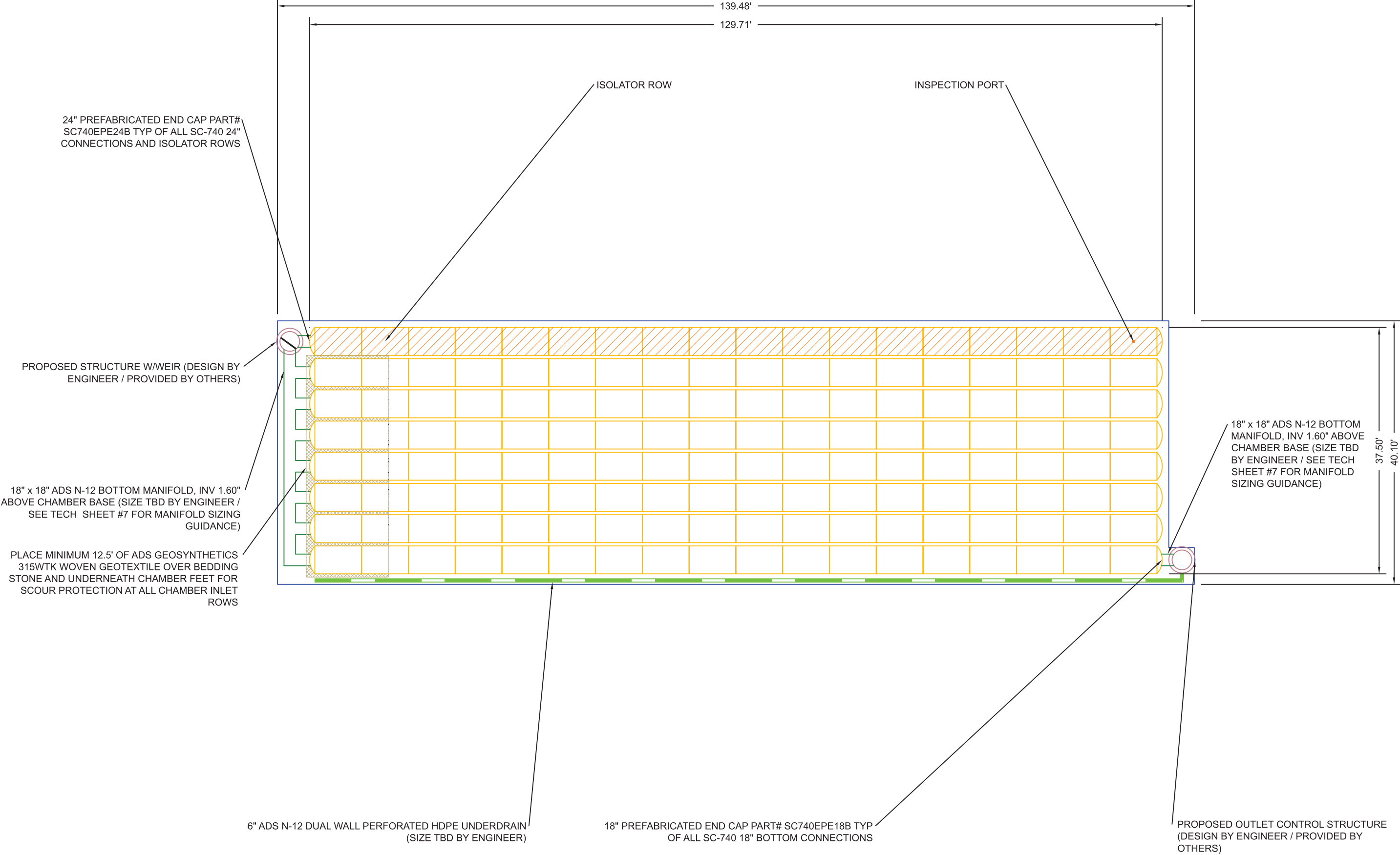
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

CONCEPTUAL LAYOUT

(144) STORMTECH SC-740 CHAMBERS  
(16) STORMTECH SC-740 END CAPS  
INSTALLED WITH 6 " COVER STONE, 30 " BASE STONE, 40% STONE VOID  
INSTALLED SYSTEM VOLUME: 15980 CF  
AREA OF SYSTEM: 5459 FT²  
PERIMETER OF SYSTEM: 359 FT

COMPUTER GENERATED CONCEPTUAL LAYOUT - NOT FOR CONSTRUCTION



REV

DRW

CHK

DESCRIPTION

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The Meadowlands (A-1)

Madison, WI

DATE: 01/29/2019

DRAWN: BA

PROJECT #: Tool

CHECKED: ---



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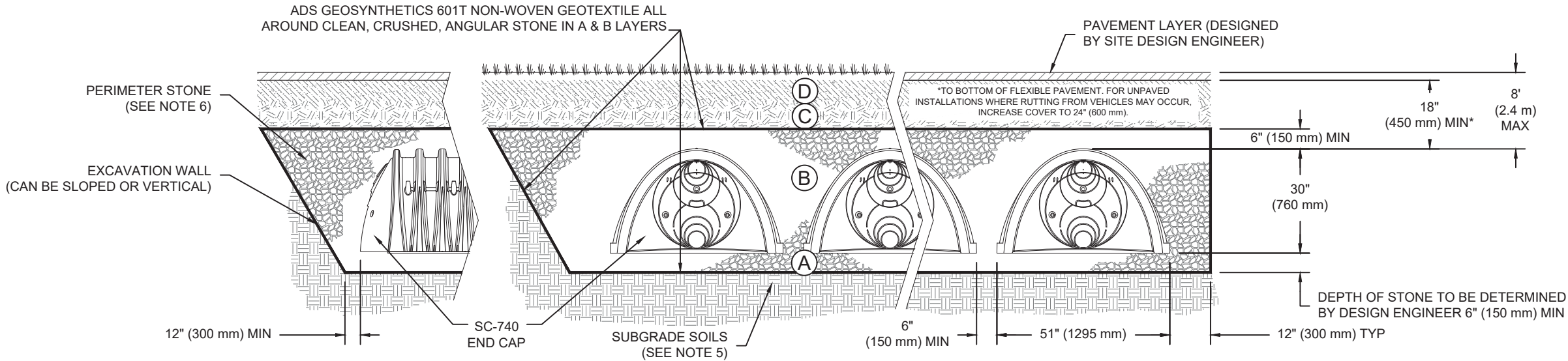
SHEET 2 OF 5

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

| MATERIAL LOCATION | DESCRIPTION                                                                                                                                                                                                      | AASHTO MATERIAL CLASSIFICATIONS                                                                                                                   | COMPACTION / DENSITY REQUIREMENT                                                                                                                                                                                                                                                                                                                                   |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D                 | <b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER  | N/A                                                                                                                                               | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.                                                                                                                                                                                                                                            |
| C                 | <b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | AASHTO M145 <sup>1</sup><br>A-1, A-2-4, A-3<br><br>OR<br><br>AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B                 | <b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.                                                                                              | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                              | NO COMPACTION REQUIRED.                                                                                                                                                                                                                                                                                                                                            |
| A                 | <b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.                                                                                                           | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                              | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2 3</sup>                                                                                                                                                                                                                                                                                                    |

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

The Meadowlands (A-1)  
Madison, WI

DATE: 01/29/2019  
DRAWN: BA  
PROJECT #: Tool  
CHECKED: ---

DESCRIPTION

CHK

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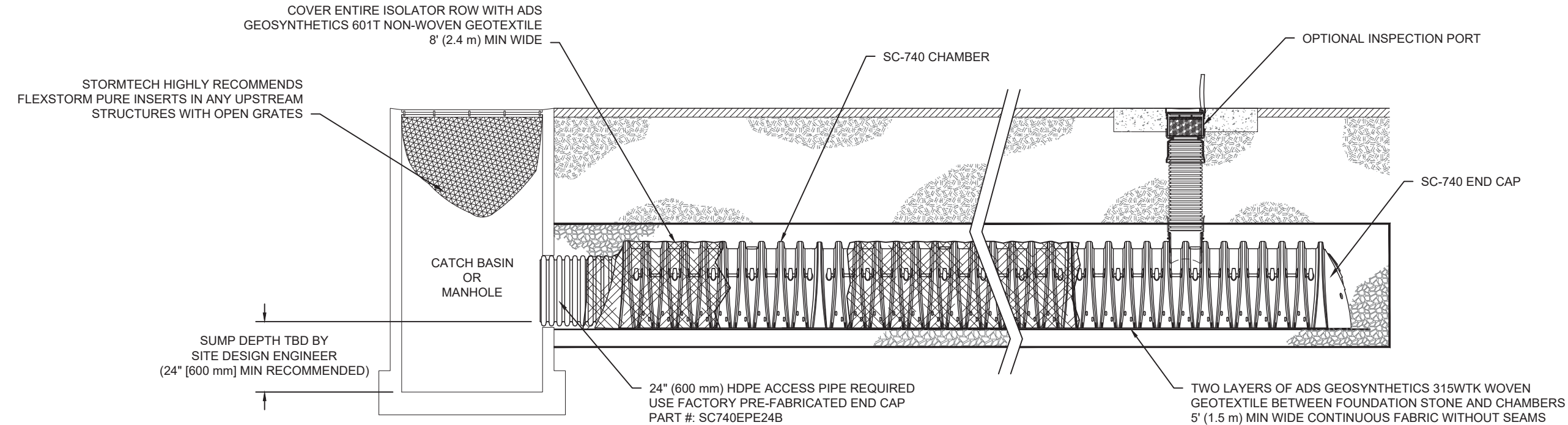
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SHEET  
3 OF 5

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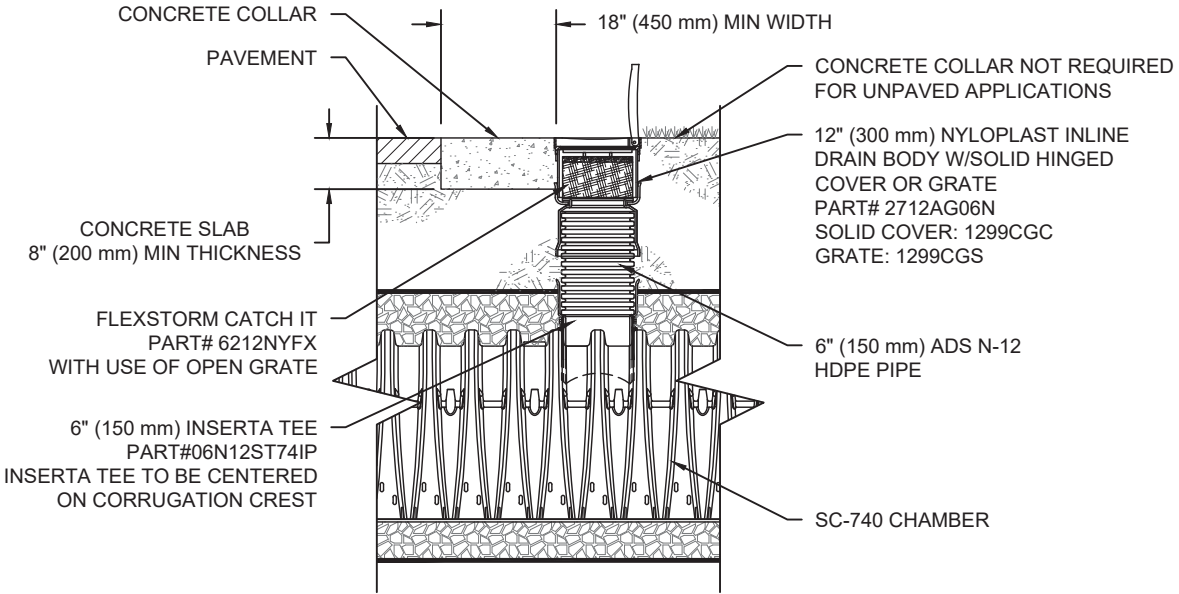
**SC-740 ISOLATOR ROW DETAIL**  
NTS

**INSPECTION & MAINTENANCE**

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
- A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
- A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
- B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
- i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
- ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
- B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

**NOTES**

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



**SC-740 6" INSPECTION PORT DETAIL**  
NTS



4640 TRUEMAN BLVD  
HILLIARD, OH 43026  
1-800-733-7473



The Meadowlands (A-1)  
Madison, WI

DRAWN: BA

DATE: 01/29/2019

PROJECT #: Tool

CHECKED: ---

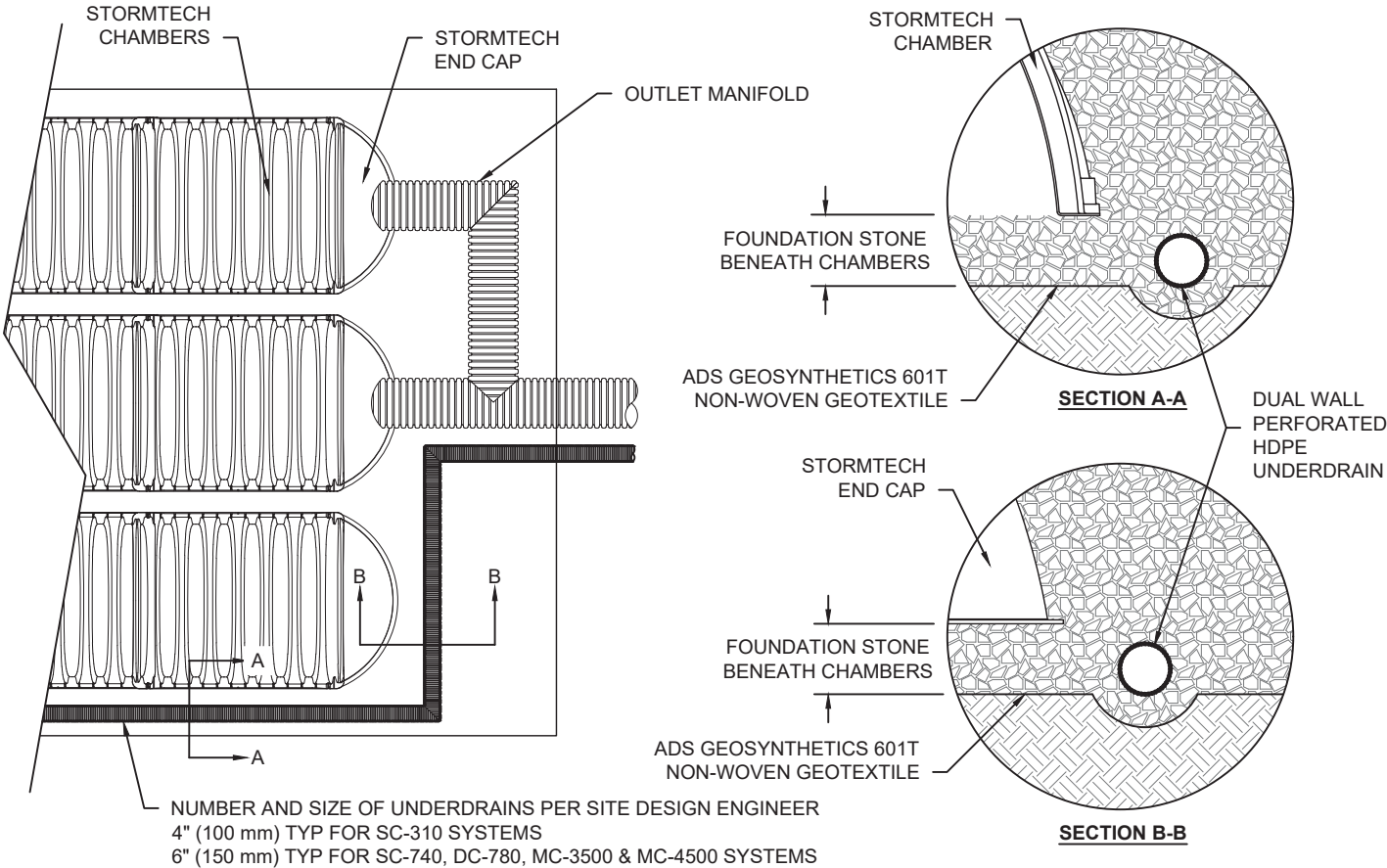
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4 OF 5

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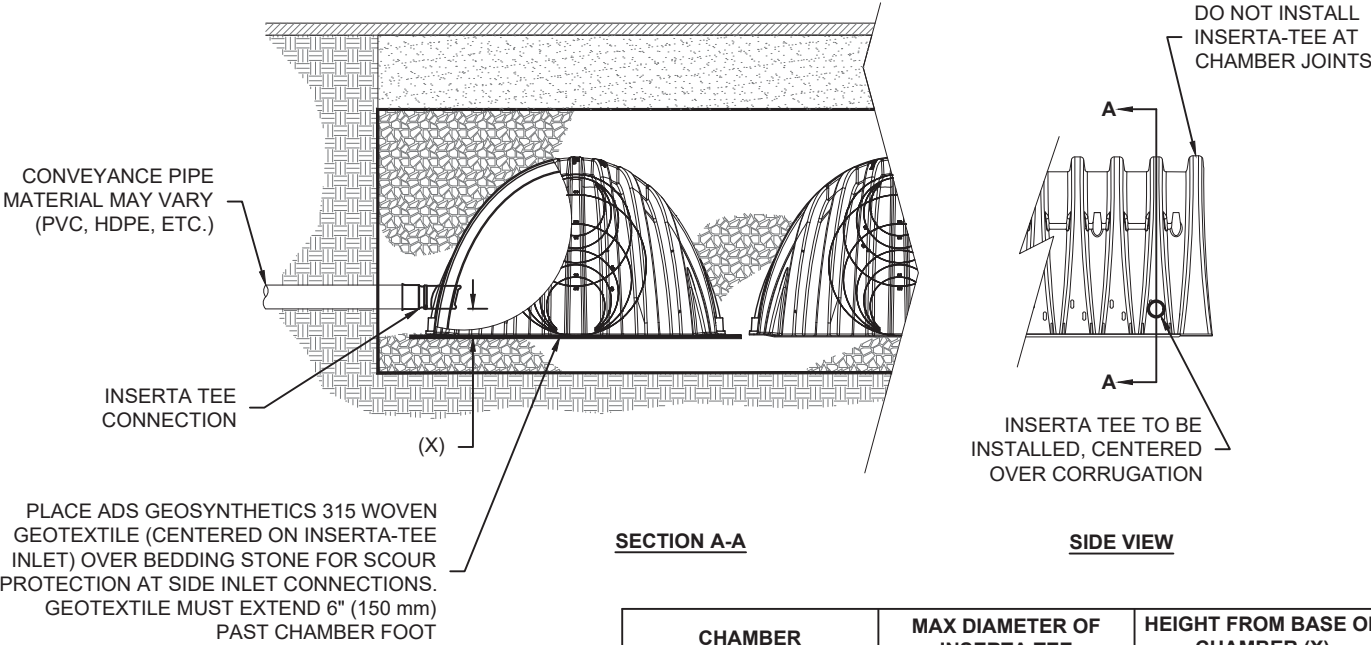
UNDERDRAIN DETAIL

NTS



INSERTA TEE DETAIL

NTS



SECTION A-A

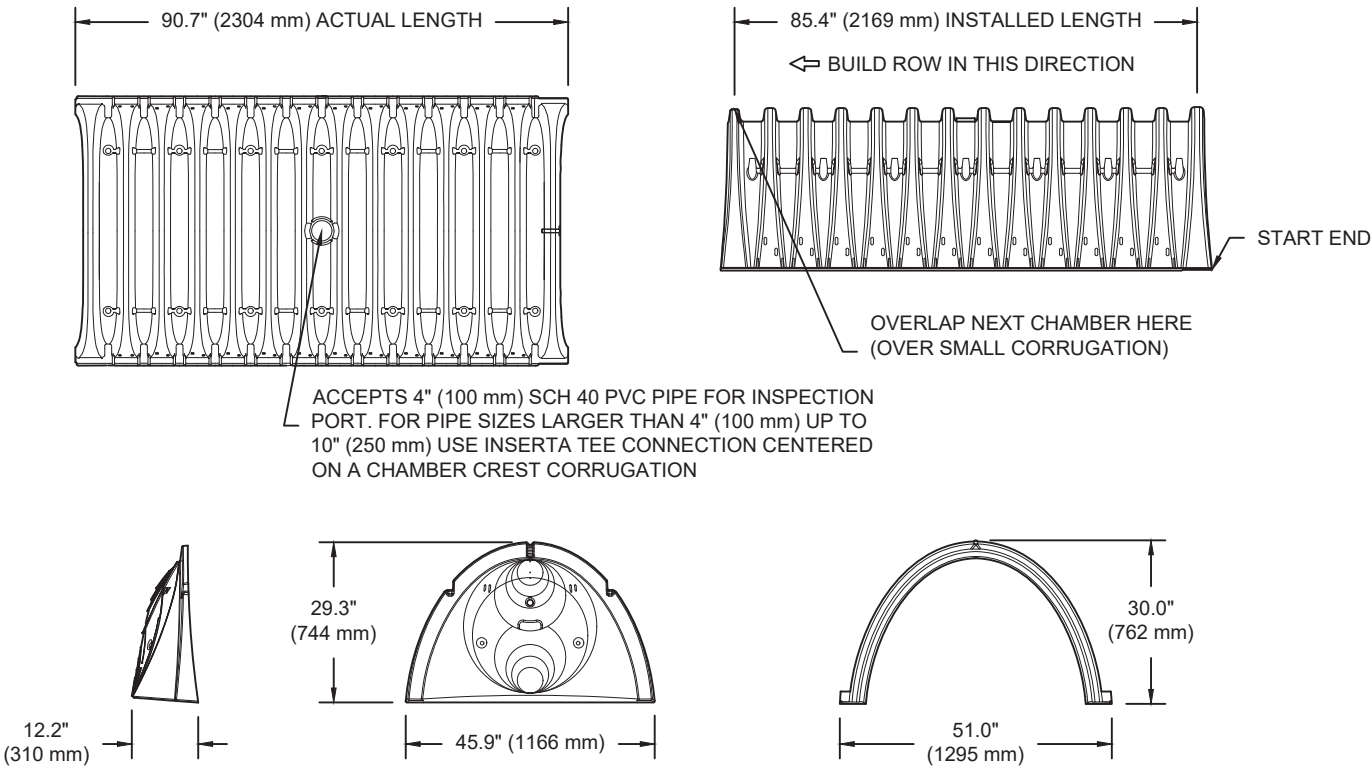
SIDE VIEW

| CHAMBER                                                                                                                      | MAX DIAMETER OF INSERTA TEE | HEIGHT FROM BASE OF CHAMBER (X) |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|
| SC-310                                                                                                                       | 6" (150 mm)                 | 4" (100 mm)                     |
| SC-740                                                                                                                       | 10" (250 mm)                | 4" (100 mm)                     |
| DC-780                                                                                                                       | 10" (250 mm)                | 4" (100 mm)                     |
| MC-3500                                                                                                                      | 12" (300 mm)                | 6" (150 mm)                     |
| MC-4500                                                                                                                      | 12" (300 mm)                | 8" (200 mm)                     |
| INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON |                             |                                 |

**NOTE:**  
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS.  
CONTACT STORMTECH FOR MORE INFORMATION.

SC-740 TECHNICAL SPECIFICATION

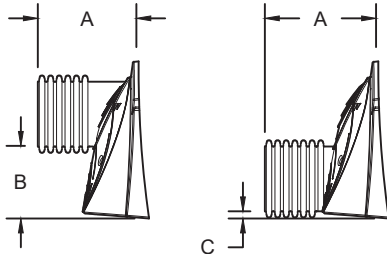
NTS



NOMINAL CHAMBER SPECIFICATIONS

|                                 |                       |                              |
|---------------------------------|-----------------------|------------------------------|
| SIZE (W X H X INSTALLED LENGTH) | 51.0" X 30.0" X 85.4" | (1295 mm X 762 mm X 2169 mm) |
| CHAMBER STORAGE                 | 45.9 CUBIC FEET       | (1.30 m³)                    |
| MINIMUM INSTALLED STORAGE*      | 74.9 CUBIC FEET       | (2.12 m³)                    |
| WEIGHT                          | 75.0 lbs.             | (33.6 kg)                    |

\*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS



STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"  
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

| PART #                      | STUB         | A              | B              | C            |
|-----------------------------|--------------|----------------|----------------|--------------|
| SC740EPE06T / SC740EPE06TPC | 6" (150 mm)  | 10.9" (277 mm) | 18.5" (470 mm) | ---          |
| SC740EPE06B / SC740EPE06BPC |              |                | ---            | 0.5" (13 mm) |
| SC740EPE08T / SC740EPE08TPC | 8" (200 mm)  | 12.2" (310 mm) | 16.5" (419 mm) | ---          |
| SC740EPE08B / SC740EPE08BPC |              |                | ---            | 0.6" (15 mm) |
| SC740EPE10T / SC740EPE10TPC | 10" (250 mm) | 13.4" (340 mm) | 14.5" (368 mm) | ---          |
| SC740EPE10B / SC740EPE10BPC |              |                | ---            | 0.7" (18 mm) |
| SC740EPE12T / SC740EPE12TPC | 12" (300 mm) | 14.7" (373 mm) | 12.5" (318 mm) | ---          |
| SC740EPE12B / SC740EPE12BPC |              |                | ---            | 1.2" (30 mm) |
| SC740EPE15T / SC740EPE15TPC | 15" (375 mm) | 18.4" (467 mm) | 9.0" (229 mm)  | ---          |
| SC740EPE15B / SC740EPE15BPC |              |                | ---            | 1.3" (33 mm) |
| SC740EPE18T / SC740EPE18TPC | 18" (450 mm) | 19.7" (500 mm) | 5.0" (127 mm)  | ---          |
| SC740EPE18B / SC740EPE18BPC |              |                | ---            | 1.6" (41 mm) |
| SC740EPE24B*                | 24" (600 mm) | 18.5" (470 mm) | ---            | 0.1" (3 mm)  |

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

\* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

The Meadowlands (A-1)  
Madison, WI

DESCRIPTION

CHK

DRW

REV

DATE:

DRAWN:

PROJECT #:

TOOL

CHECKED:

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**StormTech**  
Detention/Retention Water Quality  
70 INWOOD ROAD, SUITE 3 | ROCKY HILL, CT | 06067  
860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD  
HILLIARD, OH 43026  
1-800-733-7473

**ADS**  
ADVANCED DRAINAGE SYSTEMS, INC.



# The Meadowlands (A-2)

## Madison, WI

### STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUAL.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
  - a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
  - b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
  - c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

### IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.  
  
STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONESHOOTER LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

### NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
  - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER TIERED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

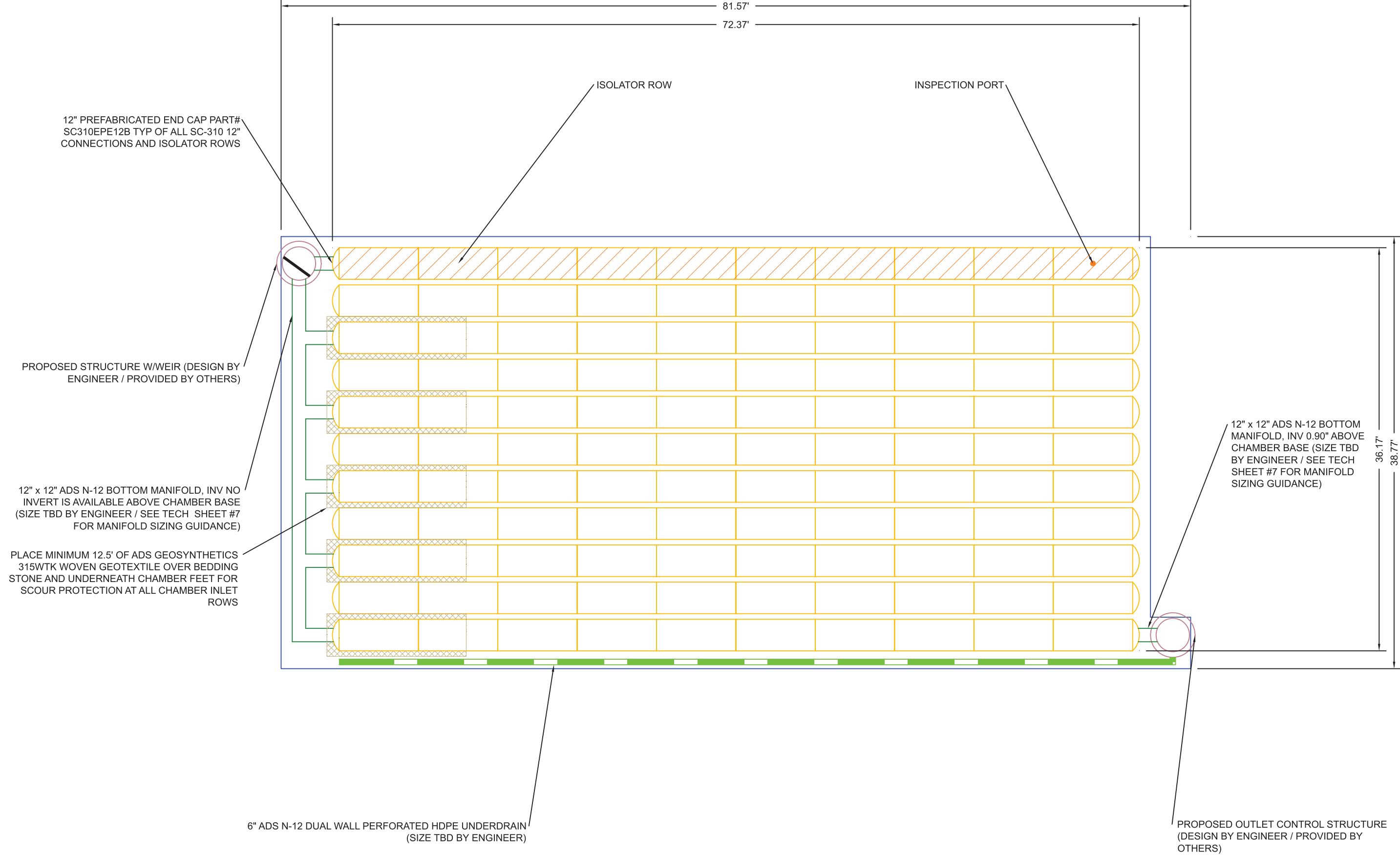
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

CONCEPTUAL LAYOUT

(110) STORMTECH SC-310 CHAMBERS  
(22) STORMTECH SC-310 END CAPS  
INSTALLED WITH 6 " COVER STONE, 30 " BASE STONE, 40% STONE VOID  
**INSTALLED SYSTEM VOLUME: 6242 CF**  
AREA OF SYSTEM: 3039 FT²  
PERIMETER OF SYSTEM: 241 FT

COMPUTER GENERATED CONCEPTUAL LAYOUT - NOT FOR CONSTRUCTION



The Meadowlands (A-2)

Madison, WI

DATE: 01/29/2019

DRAWN: BA

PROJECT #: Tool

CHECKED: ---

| REV | DRW | CHK | DESCRIPTION |
|-----|-----|-----|-------------|
|     |     |     |             |
|     |     |     |             |
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1-800-733-7473

NOT TO SCALE

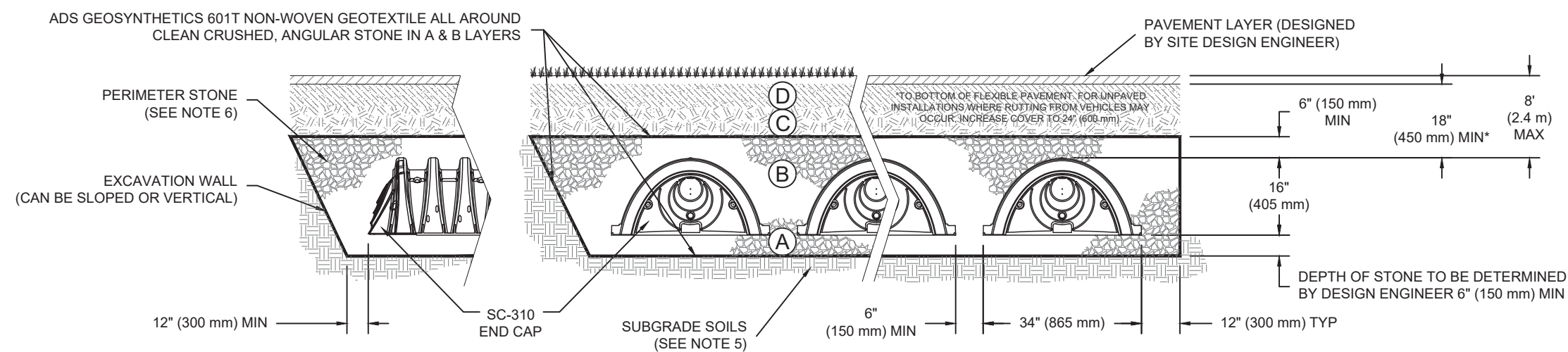
SHEET 2 OF 5

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ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

| MATERIAL LOCATION |                                                                                                                                                                                                                  | DESCRIPTION                                                                                                                                                | AASHTO MATERIAL CLASSIFICATIONS                                                                                                                   | COMPACTION / DENSITY REQUIREMENT                                                                                                                                                                                                                                                                                                                                   |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D                 | <b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER  | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.                                            | N/A                                                                                                                                               | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.                                                                                                                                                                                                                                            |
| C                 | <b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.<br><br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145 <sup>1</sup><br>A-1, A-2-4, A-3<br><br>OR<br><br>AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B                 | <b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.                                                                                              | CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)                                                                     | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                              | NO COMPACTION REQUIRED.                                                                                                                                                                                                                                                                                                                                            |
| A                 | <b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.                                                                                                           | CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)                                                                     | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                              | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2 3</sup>                                                                                                                                                                                                                                                                                                    |

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

The Meadowlands (A-2)  
Madison, WI

DATE: 01/29/2019  
DRAWN: BA  
PROJECT #: Tool  
CHECKED: ---

DESCRIPTION

CHK

DRW

REV

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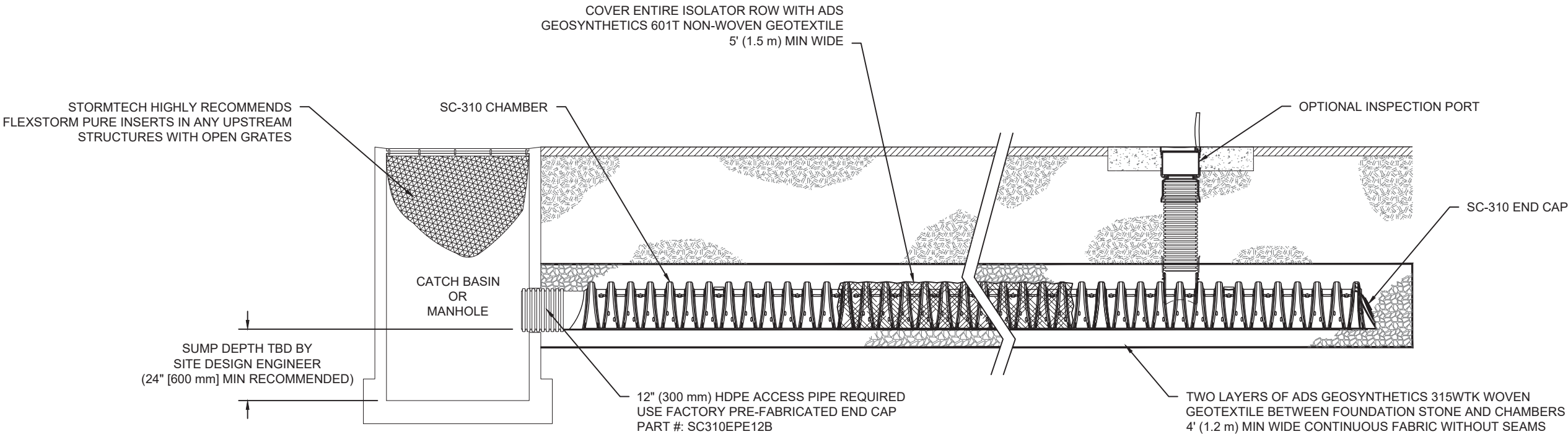
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4DS  
ADVANCED DRAINAGE SYSTEMS, INC.

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SHEET

3 OF 5



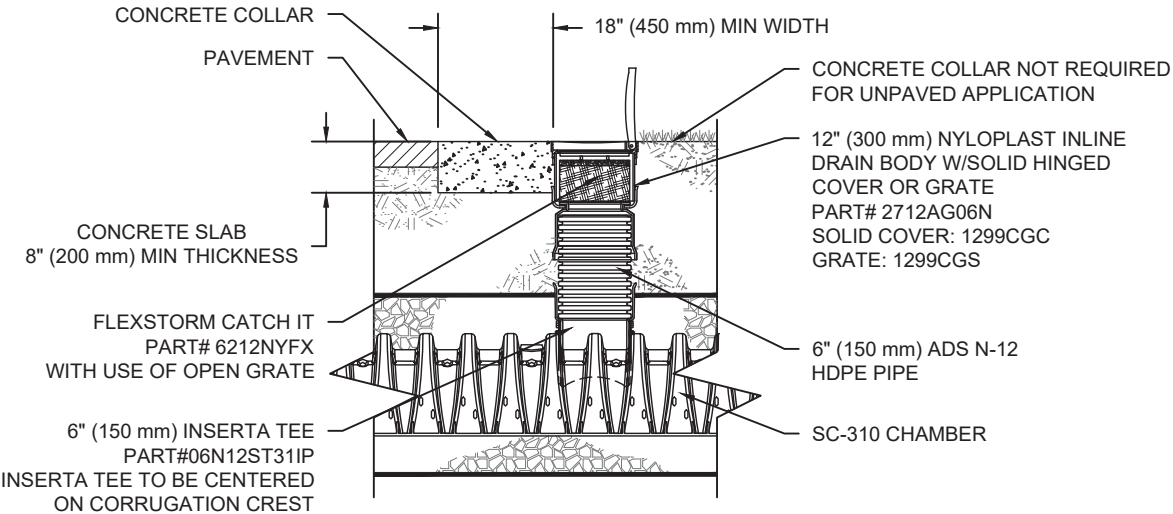
SC-310 ISOLATOR ROW DETAIL  
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
- A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
- A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
- B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
- i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
- ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
- B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

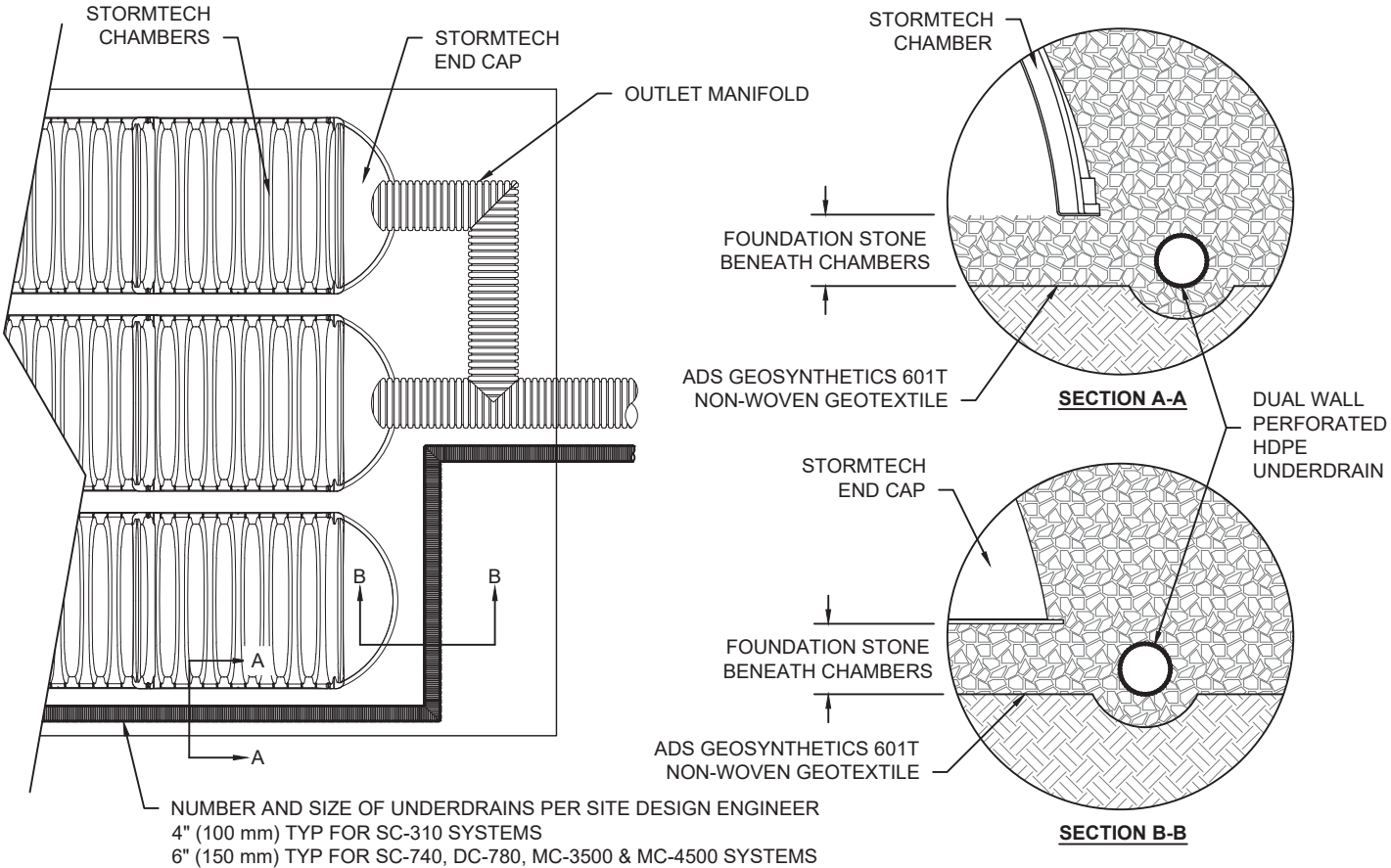


SC-310 6" INSPECTION PORT DETAIL  
NTS

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |           |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|-----------|-----------------|
| The Meadowlands (A-2)<br>Madison, WI                                                                                                                                                                                                                                                                                                                                                                                            |     | DATE: 01/29/2019 | DRAWN: BA | CHECKED: ---    |
| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                     | CHK | DRW              | REV       | PROJECT #: Tool |
| <br>70 INWOOD ROAD, SUITE 3   ROCKY HILL, CT   06067<br>860-529-8188   888-892-2694   WWW.STORMTECH.COM                                                                                                                                                                                                                                    |     |                  |           |                 |
| 4640 TRUEMAN BLVD<br>HILLIARD, OH 43026<br>1-800-733-7473                                                                                                                                                                                                                                                                                                                                                                       |     |                  |           |                 |
| ADVANCED DRAINAGE SYSTEMS, INC.                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |           |                 |
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| SHEET<br>4 OF 5                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |           |                 |

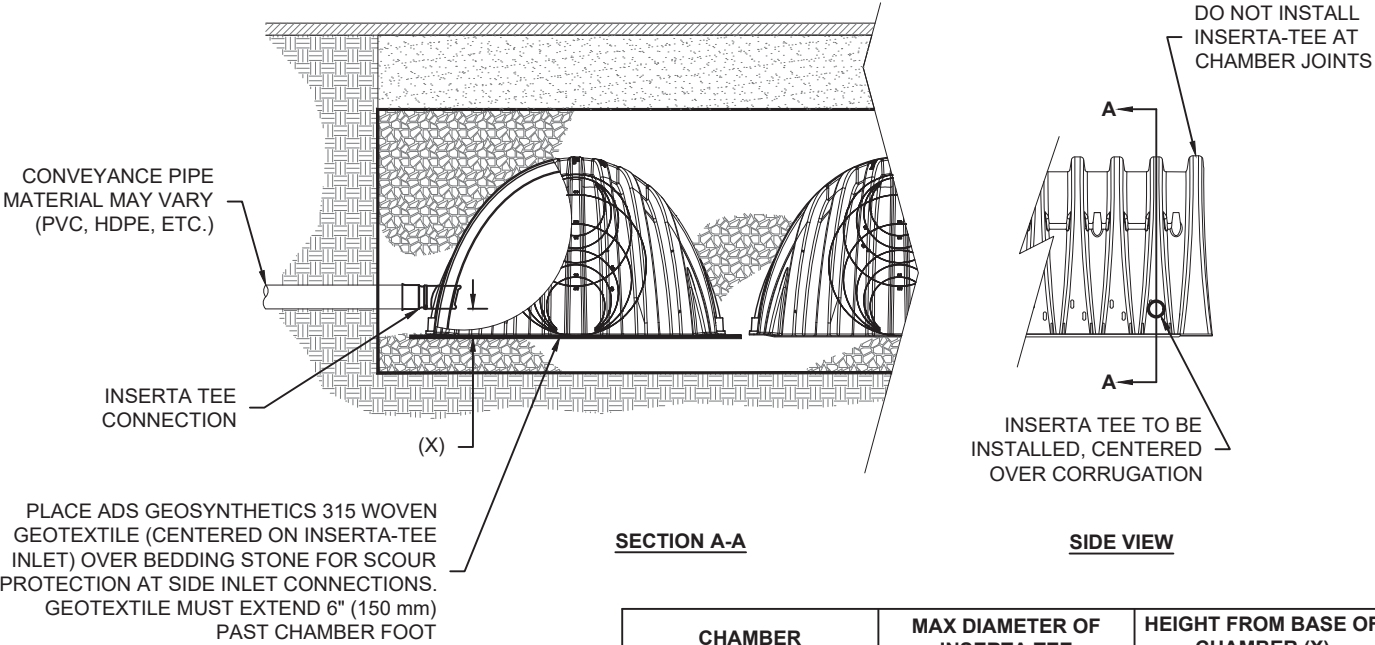
UNDERDRAIN DETAIL

NTS



INSERTA TEE DETAIL

NTS



SECTION A-A

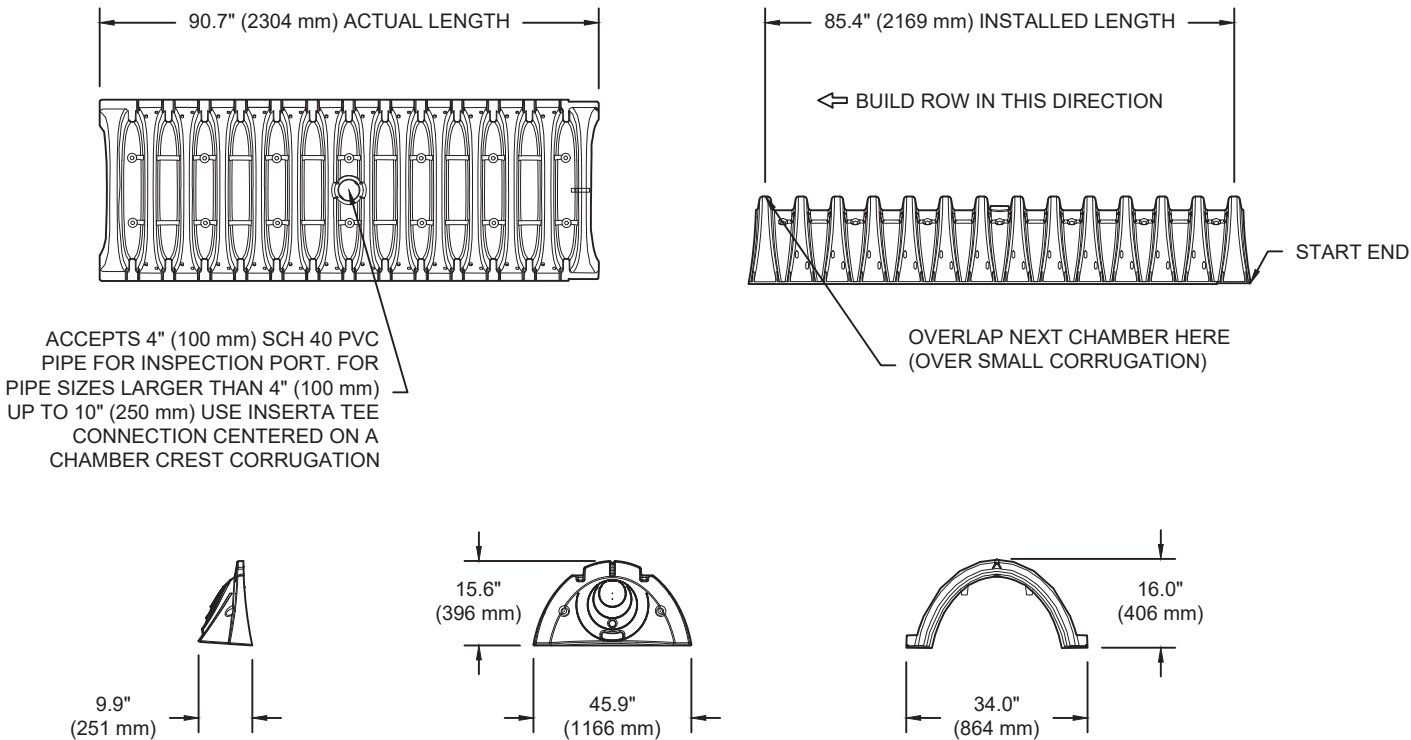
SIDE VIEW

| CHAMBER                                                                                                                      | MAX DIAMETER OF INSERTA TEE | HEIGHT FROM BASE OF CHAMBER (X) |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|
| SC-310                                                                                                                       | 6" (150 mm)                 | 4" (100 mm)                     |
| SC-740                                                                                                                       | 10" (250 mm)                | 4" (100 mm)                     |
| DC-780                                                                                                                       | 10" (250 mm)                | 4" (100 mm)                     |
| MC-3500                                                                                                                      | 12" (300 mm)                | 6" (150 mm)                     |
| MC-4500                                                                                                                      | 12" (300 mm)                | 8" (200 mm)                     |
| INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON |                             |                                 |

**NOTE:**  
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS.  
CONTACT STORMTECH FOR MORE INFORMATION.

SC-310 TECHNICAL SPECIFICATION

NTS



NOMINAL CHAMBER SPECIFICATIONS

| SIZE (W X H X INSTALLED LENGTH) | 34.0" X 16.0" X 85.4" | (864 mm X 406 mm X 2169 mm) |
|---------------------------------|-----------------------|-----------------------------|
| CHAMBER STORAGE                 | 14.7 CUBIC FEET       | (0.42 m³)                   |
| MINIMUM INSTALLED STORAGE*      | 31.0 CUBIC FEET       | (0.88 m³)                   |
| WEIGHT                          | 35.0 lbs.             | (16.8 kg)                   |

\*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"  
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

| PART #                      | STUB         | A              | B             | C            |
|-----------------------------|--------------|----------------|---------------|--------------|
| SC310EPE06T / SC310EPE06TPC | 6" (150 mm)  | 9.6" (244 mm)  | 5.8" (147 mm) | ---          |
| SC310EPE06B / SC310EPE06BPC |              |                | ---           | 0.5" (13 mm) |
| SC310EPE08T / SC310EPE08TPC | 8" (200 mm)  | 11.9" (302 mm) | 3.5" (89 mm)  | ---          |
| SC310EPE08B / SC310EPE08BPC |              |                | ---           | 0.6" (15 mm) |
| SC310EPE10T / SC310EPE10TPC | 10" (250 mm) | 12.7" (323 mm) | 1.4" (36 mm)  | ---          |
| SC310EPE10B / SC310EPE10BPC |              |                | ---           | 0.7" (18 mm) |
| SC310EPE12B                 | 12" (300 mm) | 13.5" (343 mm) | ---           | 0.9" (23 mm) |

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

\* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm).  
BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

The Meadowlands (A-2)  
Madison, WI

DESCRIPTION

CHK

DRW

REV

DATE:

DRAWN:

PROJECT #:

TOOL

CHECKED:

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**StormTech**  
Detention/Retention Water Quality  
70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067  
860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD  
HILLIARD, OH 43026  
1-800-733-7473

**ADS**  
ADVANCED DRAINAGE SYSTEMS, INC.

SHEET

5 OF 5

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.



# The Meadowlands (A-3)

## Madison, WI

### STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUAL.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
  - a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
  - b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
  - c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

### IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.  
  
STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONESHOOTER LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

### NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
  - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER TIERED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

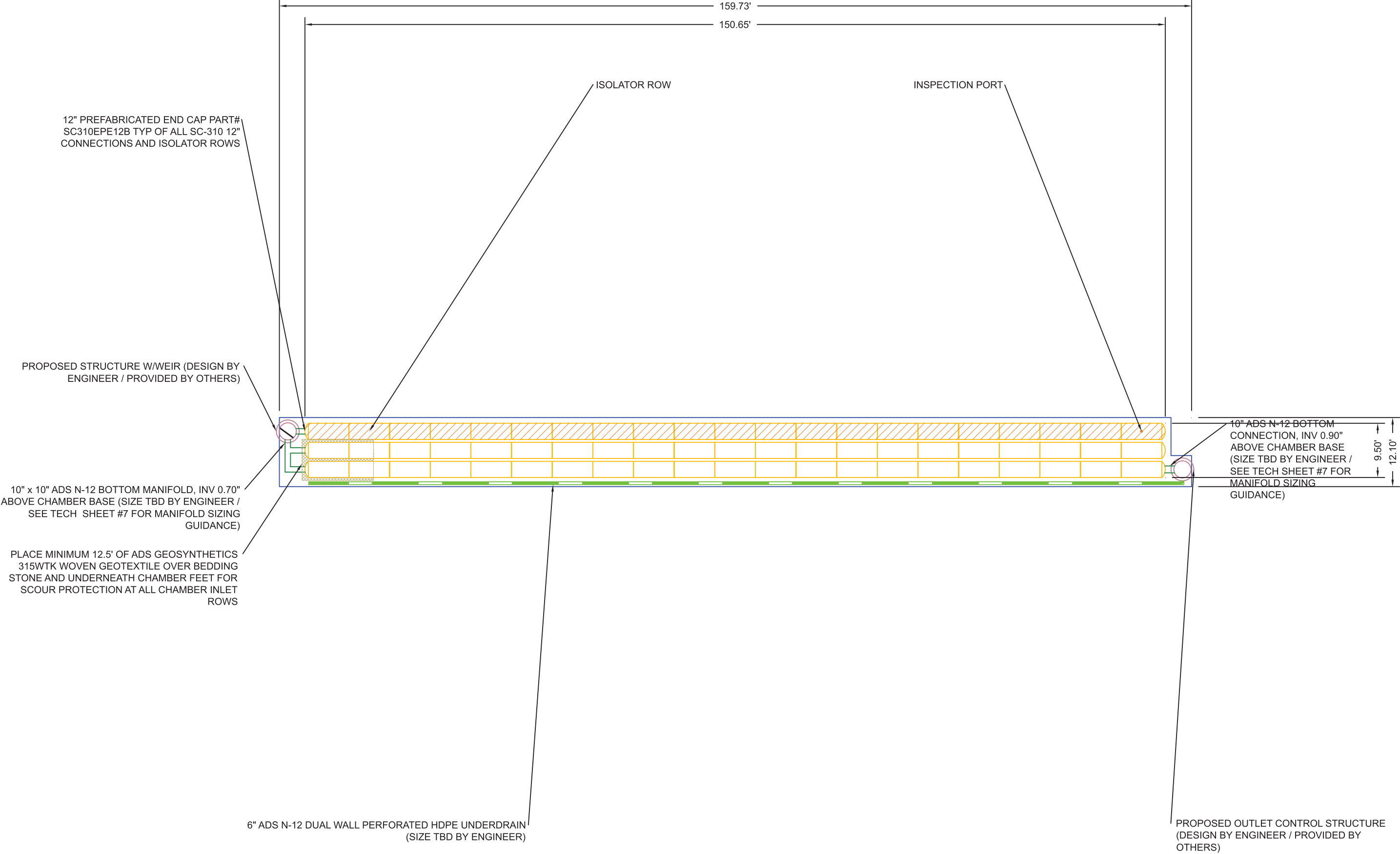
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

CONCEPTUAL LAYOUT

(63) STORMTECH SC-310 CHAMBERS  
(6) STORMTECH SC-310 END CAPS  
INSTALLED WITH 6 " COVER STONE, 24 " BASE STONE, 40% STONE VOID  
**INSTALLED SYSTEM VOLUME: 3485 CF**  
AREA OF SYSTEM: 1909 FT²  
PERIMETER OF SYSTEM: 344 FT

COMPUTER GENERATED CONCEPTUAL LAYOUT - NOT FOR CONSTRUCTION



|                                                                                                                                                                                       |                                      |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------|
| <br>ADVANCED DRAINAGE SYSTEMS, INC.<br>4640 TRUEMAN BLVD<br>HILLIARD, OH 43026<br>1-800-733-7473 | The Meadowlands (A-3)<br>Madison, WI |              |
|                                                                                                                                                                                       | DATE: 01/29/2019                     | DRAWN: BA    |
|                                                                                                                                                                                       | PROJECT #: Tool                      | CHECKED: --- |
|                                                                                                                                                                                       | SHEET<br>2 OF 5                      |              |

| REV | DRW | CHK | DESCRIPTION |
|-----|-----|-----|-------------|
|     |     |     |             |
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|     |     |     |             |
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Detention- Retention- Water Quality  
70 NWWOOD ROAD, SUITE 3 | ROCKY HILL, CT | 06067  
860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

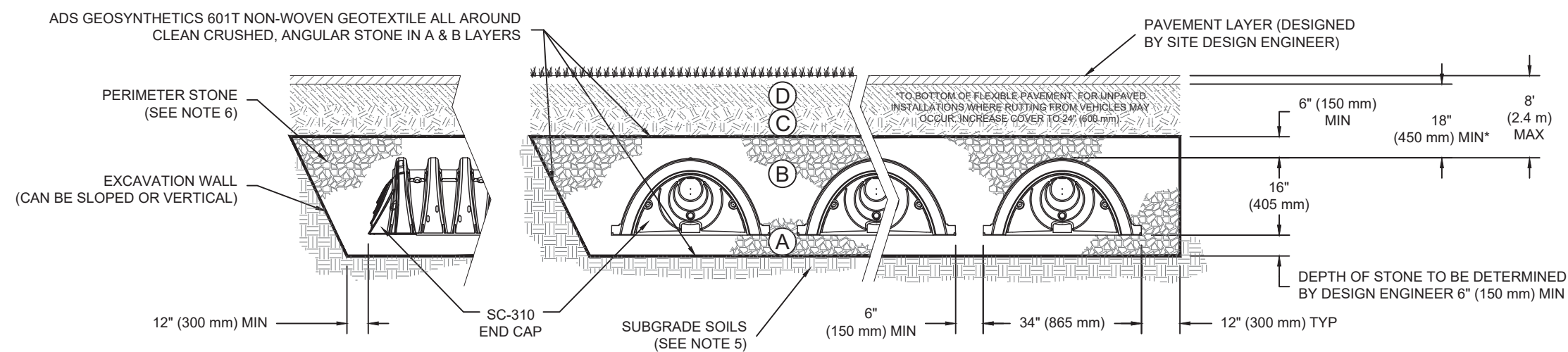
NOT TO SCALE

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ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

| MATERIAL LOCATION |                                                                                                                                                                                                                  | DESCRIPTION                                                                                                                                                | AASHTO MATERIAL CLASSIFICATIONS                                                                                                                   | COMPACTION / DENSITY REQUIREMENT                                                                                                                                                                                                                                                                                                                                   |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D                 | <b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER  | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.                                            | N/A                                                                                                                                               | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.                                                                                                                                                                                                                                            |
| C                 | <b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.<br><br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145 <sup>1</sup><br>A-1, A-2-4, A-3<br><br>OR<br><br>AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B                 | <b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.                                                                                              | CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)                                                                     | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                              | NO COMPACTION REQUIRED.                                                                                                                                                                                                                                                                                                                                            |
| A                 | <b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.                                                                                                           | CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)                                                                     | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                              | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2 3</sup>                                                                                                                                                                                                                                                                                                    |

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

The Meadowlands (A-3)

Madison, WI

DATE: 01/29/2019

DRAWN: BA

PROJECT #: Tool

CHECKED: ---

DESCRIPTION

CHK

DRW

REV

StormTech

Detention/Retention Water Quality

70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067  
860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

ADS

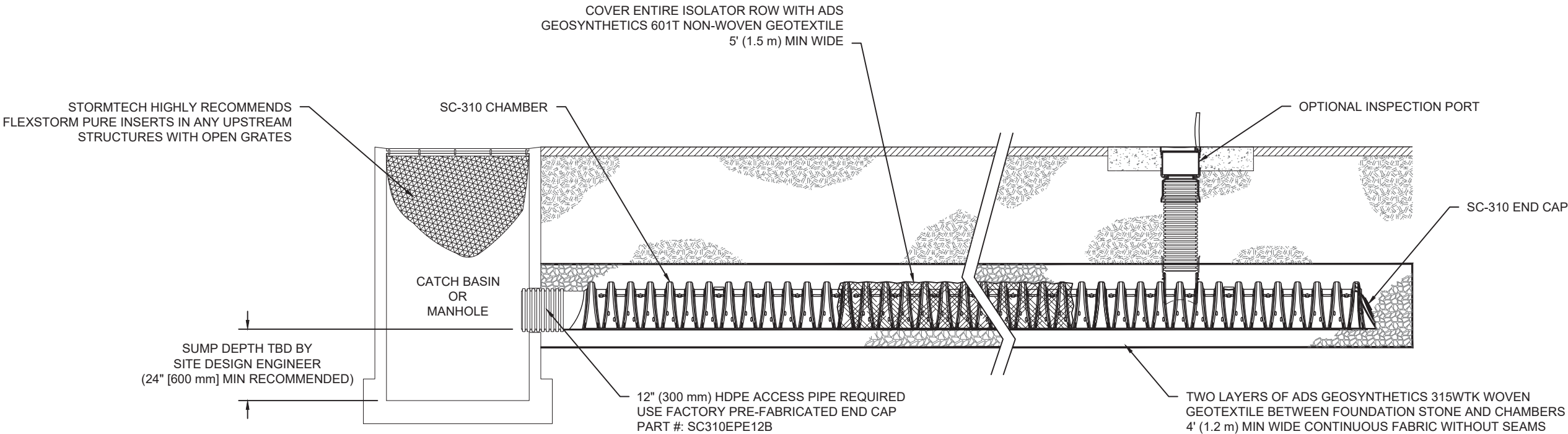
ADVANCED DRAINAGE SYSTEMS, INC.

4640 TRUEEMAN BLVD  
HILLIARD, OH 43026  
1-800-733-7473

SHEET

3 OF 5

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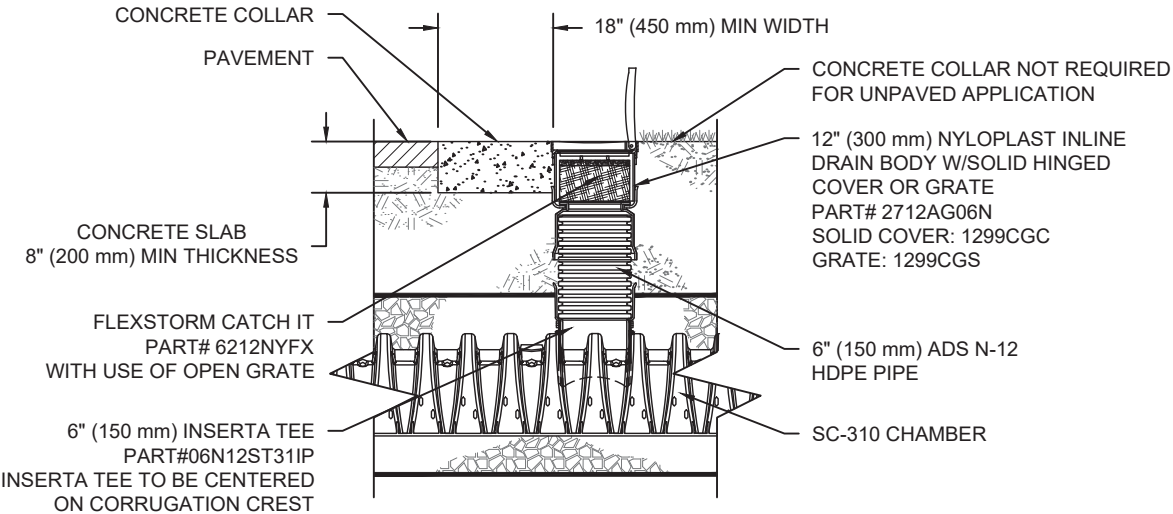
SC-310 ISOLATOR ROW DETAIL  
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
- A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
- A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
- B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
- i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
- ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
- B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

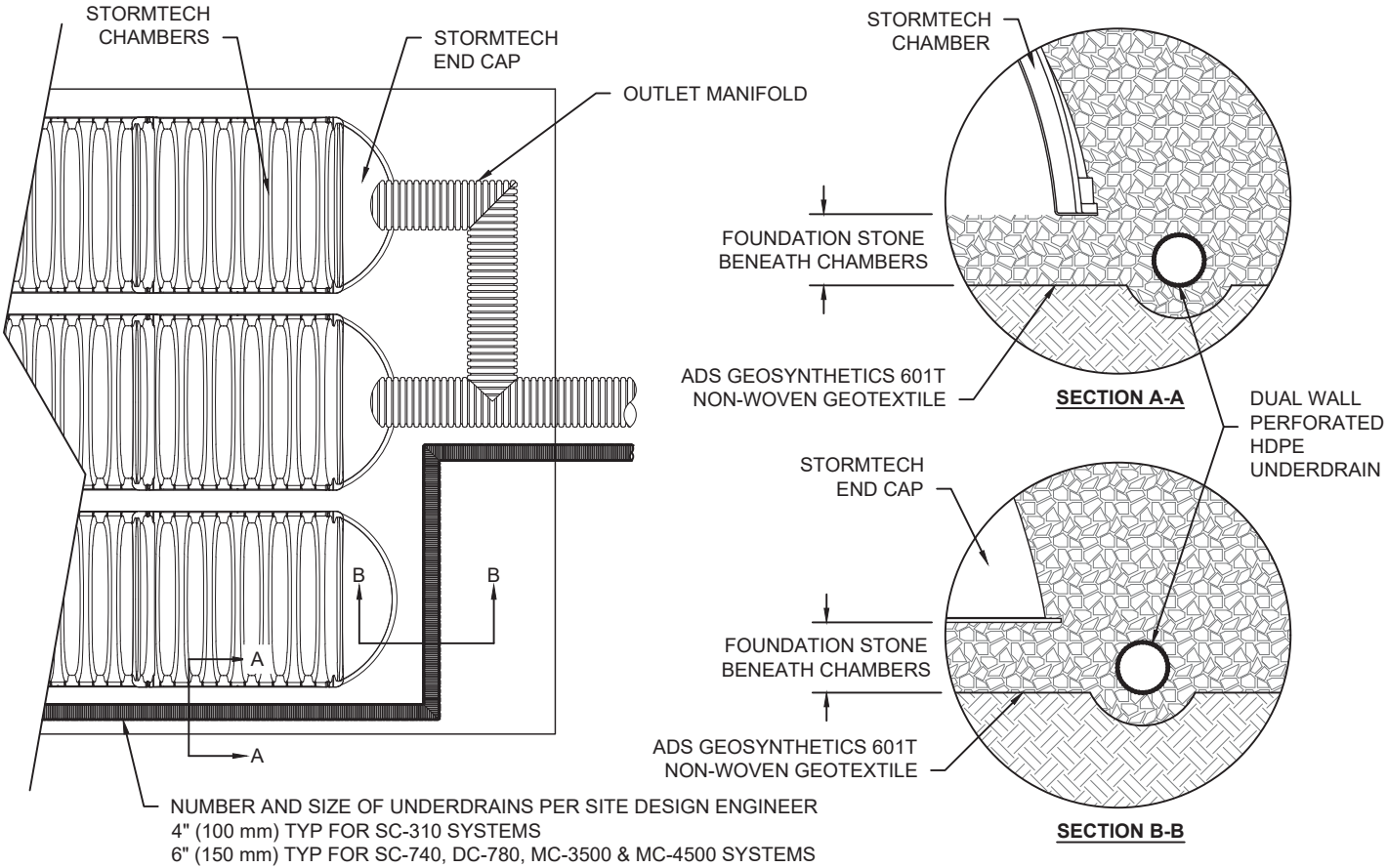


SC-310 6" INSPECTION PORT DETAIL  
NTS

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |           |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|-----------|-----------------|
| The Meadowlands (A-3)<br>Madison, WI                                                                                                                                                                                                                                                                                                                                                                                            |     | DATE: 01/29/2019 | DRAWN: BA | CHECKED: ---    |
| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                     | CHK | DRW              | REV       | PROJECT #: Tool |
| <br>70 INWOOD ROAD, SUITE 3   ROCKY HILL   CT   06067<br>860-529-8188   888-892-2694   WWW.STORMTECH.COM                                                                                                                                                                                                                                   |     |                  |           |                 |
| 4640 TRUEMAN BLVD<br>HILLIARD, OH 43026<br>1-800-733-7473                                                                                                                                                                                                                                                                                                                                                                       |     |                  |           |                 |
| ADVANCED DRAINAGE SYSTEMS, INC.                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |           |                 |
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| SHEET<br>4 OF 5                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |           |                 |

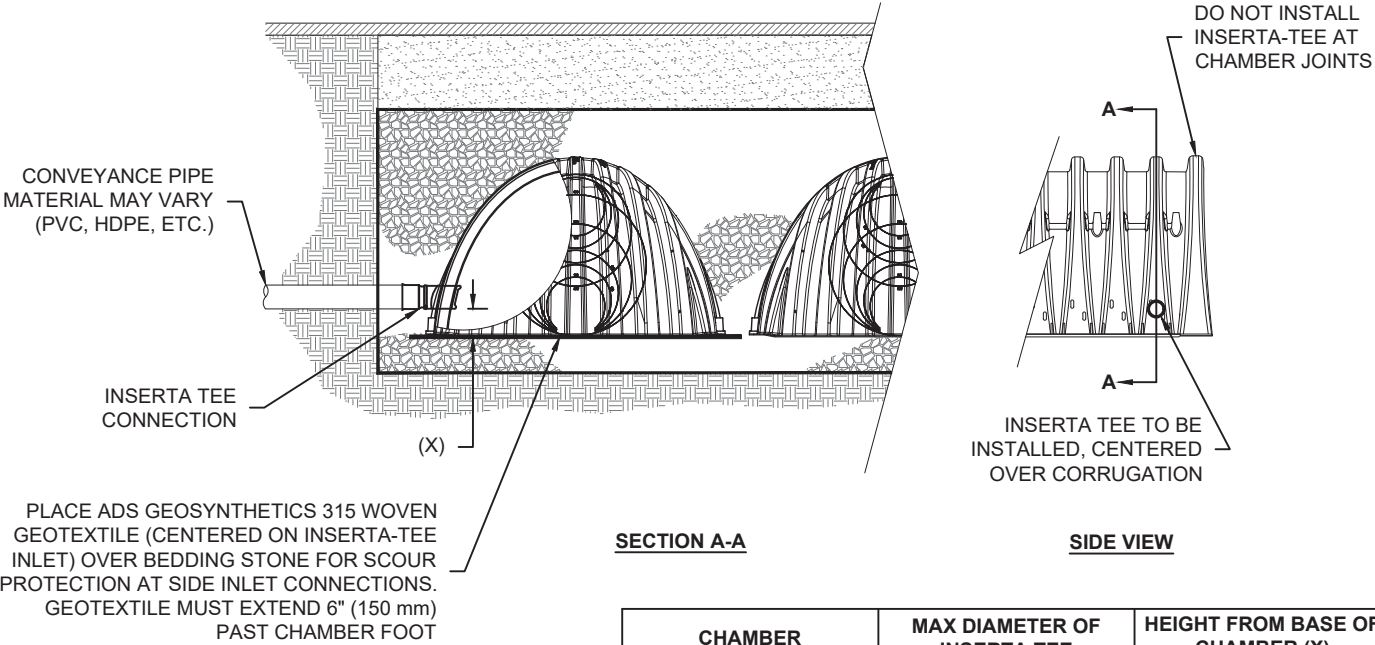
UNDERDRAIN DETAIL

NTS



INSERTA TEE DETAIL

NTS



SECTION A-A

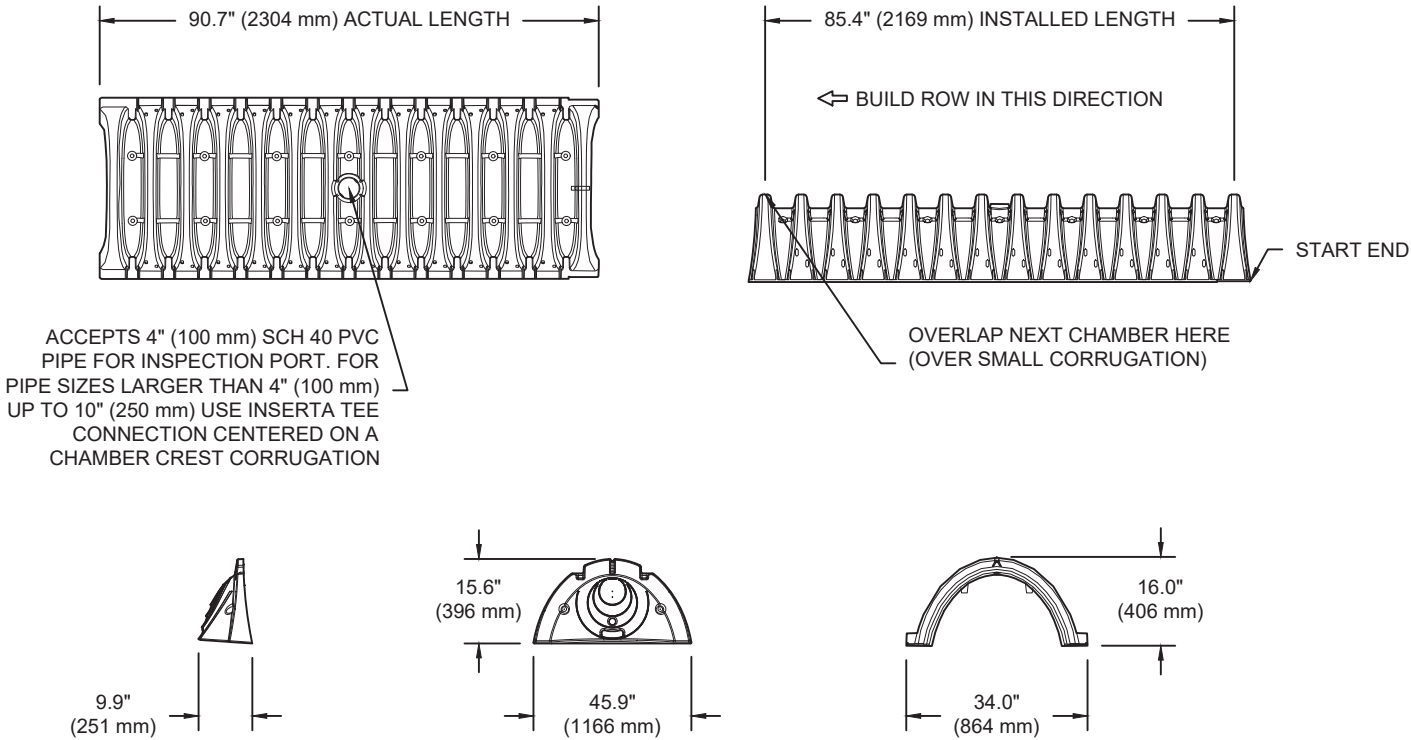
SIDE VIEW

| CHAMBER                                                                                                                      | MAX DIAMETER OF INSERTA TEE | HEIGHT FROM BASE OF CHAMBER (X) |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|
| SC-310                                                                                                                       | 6" (150 mm)                 | 4" (100 mm)                     |
| SC-740                                                                                                                       | 10" (250 mm)                | 4" (100 mm)                     |
| DC-780                                                                                                                       | 10" (250 mm)                | 4" (100 mm)                     |
| MC-3500                                                                                                                      | 12" (300 mm)                | 6" (150 mm)                     |
| MC-4500                                                                                                                      | 12" (300 mm)                | 8" (200 mm)                     |
| INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON |                             |                                 |

**NOTE:**  
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS.  
CONTACT STORMTECH FOR MORE INFORMATION.

SC-310 TECHNICAL SPECIFICATION

NTS



NOMINAL CHAMBER SPECIFICATIONS

| SIZE (W X H X INSTALLED LENGTH) | 34.0" X 16.0" X 85.4" | (864 mm X 406 mm X 2169 mm) |
|---------------------------------|-----------------------|-----------------------------|
| CHAMBER STORAGE                 | 14.7 CUBIC FEET       | (0.42 m³)                   |
| MINIMUM INSTALLED STORAGE*      | 31.0 CUBIC FEET       | (0.88 m³)                   |
| WEIGHT                          | 35.0 lbs.             | (16.8 kg)                   |

\*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"  
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

| PART #                      | STUB         | A              | B             | C            |
|-----------------------------|--------------|----------------|---------------|--------------|
| SC310EPE06T / SC310EPE06TPC | 6" (150 mm)  | 9.6" (244 mm)  | 5.8" (147 mm) | ---          |
| SC310EPE06B / SC310EPE06BPC |              |                | ---           | 0.5" (13 mm) |
| SC310EPE08T / SC310EPE08TPC | 8" (200 mm)  | 11.9" (302 mm) | 3.5" (89 mm)  | ---          |
| SC310EPE08B / SC310EPE08BPC |              |                | ---           | 0.6" (15 mm) |
| SC310EPE10T / SC310EPE10TPC | 10" (250 mm) | 12.7" (323 mm) | 1.4" (36 mm)  | ---          |
| SC310EPE10B / SC310EPE10BPC |              |                | ---           | 0.7" (18 mm) |
| SC310EPE12B                 | 12" (300 mm) | 13.5" (343 mm) | ---           | 0.9" (23 mm) |

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

\* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm).  
BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

The Meadowlands (A-3)  
Madison, WI

DESCRIPTION

CHK

DRW

REV

DATE:

DRAWN:

PROJECT #:

TOOL

CHECKED:

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**StormTech**  
Detention/Retention Water Quality  
70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067  
860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD  
HILLIARD, OH 43026  
1-800-733-7473

**ADS**  
ADVANCED DRAINAGE SYSTEMS, INC.



# The Meadowlands (A-4)

## Madison, WI

### STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUAL.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
  - a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
  - b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
  - c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

### IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.  
  
STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONESHOOTER LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

### NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
  - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER TIERED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

(55) STORMTECH SC-310 CHAMBERS  
(10) STORMTECH SC-310 END CAPS  
INSTALLED WITH 6 " COVER STONE, 24 " BASE STONE, 40% STONE VOID  
**INSTALLED SYSTEM VOLUME: 2962 CF**  
AREA OF SYSTEM: 1614 **FT**<sup>2</sup>  
PERIMETER OF SYSTEM: 215 **FT**

Technical drawing of a rectangular chamber, likely a storage tank or container, showing dimensions and internal structure.

**Dimensions:**

- Overall Length: 88.56'
- Internal Length: 79.48'
- Overall Width: 18.77'
- Internal Width: 16.17'

**Labels and Features:**

- ISOLATOR ROW:** Points to the top horizontal section of the chamber.
- INSPECTION PORT:** Points to a circular feature on the right side of the chamber.
- 10" ADS N-12 BOTTOM CONNECTION, INV 0.90" ABOVE CHAMBER BASE (SIZE TBD BY ENGINEER / SEE TECH SHEET #7 FOR MANIFOLD SIZING GUIDANCE):** Points to a circular feature on the bottom right of the chamber.

The chamber is divided into a grid of 10 rows and 10 columns. The top row is shaded orange and labeled "ISOLATOR ROW". The bottom row is shaded green. The right side of the chamber features a vertical stack of four circular features, with the bottom one labeled "10" ADS N-12 BOTTOM CONNECTION...". The left side of the chamber features a vertical stack of four circular features, with the top one labeled "INSPECTION PORT".

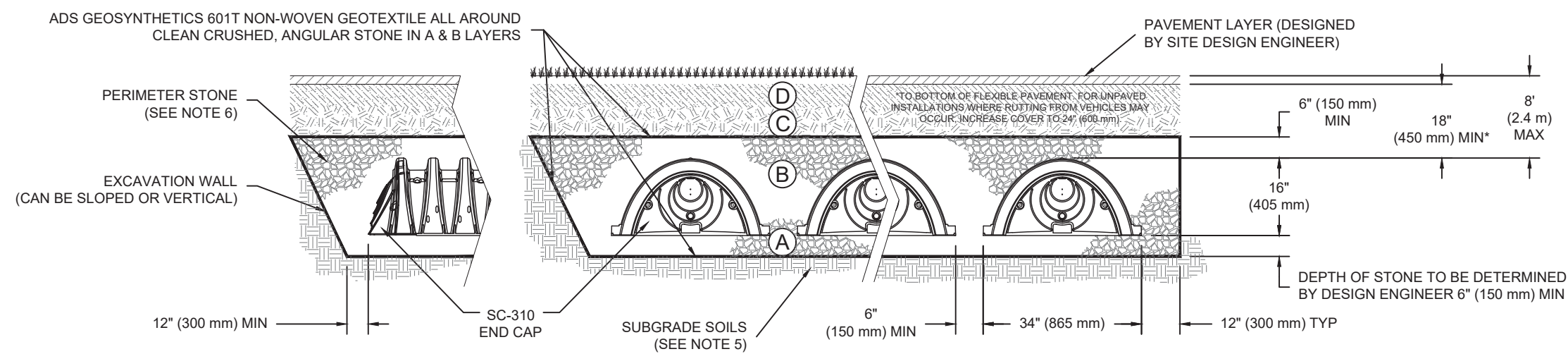
PROPOSED OUTLET CONTROL STRUCTURE  
(DESIGN BY ENGINEER / PROVIDED BY  
OTHERS)

|                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                 |  |                         |     |                               |             |                                                 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|-----|-------------------------------|-------------|-------------------------------------------------|--|
|  <p>4640 TRUEMAN BLVD<br/>HILLIARD, OH 43026<br/>1-800-733-7473</p> <p>ADVANCED DRAINAGE SYSTEMS, INC.</p>                                                                                                                                                                                                                                        |  |  <p><b>StormTech</b><sup>®</sup></p> <p>Detention- Retention- Water Quality</p> <p>70 INWOOD ROAD, SUITE 3   ROCKY HILL, CT   06067<br/>860-529-8188  888-892-2684   WWW.STORMTECH.COM</p> |  | REV                     | DRW | CHK                           | DESCRIPTION | <p>The Meadowlands (A-4)</p> <p>Madison, WI</p> |  |
| <p>NOT TO SCALE</p>                                                                                                                                                                                                                                                                                                                                                                                                                    |  | <p>DATE:</p> <p>01/29/2019</p>                                                                                                                                                                                                                                                  |  | <p>DRAWN:</p> <p>BA</p> |     | <p>PROJECT #:</p> <p>Tool</p> |             | <p>CHECKED:</p> <p>---</p>                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                 |  |                         |     |                               |             |                                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                 |  |                         |     |                               |             |                                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                 |  |                         |     |                               |             |                                                 |  |
| <p>THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.</p> |  |                                                                                                                                                                                                                                                                                 |  |                         |     |                               |             |                                                 |  |
| <p>SHEET</p> <p>2 OF 5</p>                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                 |  |                         |     |                               |             |                                                 |  |

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

| MATERIAL LOCATION |                                                                                                                                                                                                                  | DESCRIPTION                                                                                                                                                | AASHTO MATERIAL CLASSIFICATIONS                                                                                                                   | COMPACTION / DENSITY REQUIREMENT                                                                                                                                                                                                                                                                                                                                   |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D                 | <b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER  | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.                                            | N/A                                                                                                                                               | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.                                                                                                                                                                                                                                            |
| C                 | <b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.<br><br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145 <sup>1</sup><br>A-1, A-2-4, A-3<br><br>OR<br><br>AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B                 | <b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.                                                                                              | CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)                                                                     | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                              | NO COMPACTION REQUIRED.                                                                                                                                                                                                                                                                                                                                            |
| A                 | <b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.                                                                                                           | CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)                                                                     | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                              | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2 3</sup>                                                                                                                                                                                                                                                                                                    |

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

The Meadowlands (A-4)  
Madison, WI

DATE: 01/29/2019  
DRAWN: BA  
PROJECT #: Tool  
CHECKED: ---

| REV | DRW | CHK | DESCRIPTION |
|-----|-----|-----|-------------|
|     |     |     |             |
|     |     |     |             |
|     |     |     |             |
|     |     |     |             |



StormTech  
Detention/Retention Water Quality

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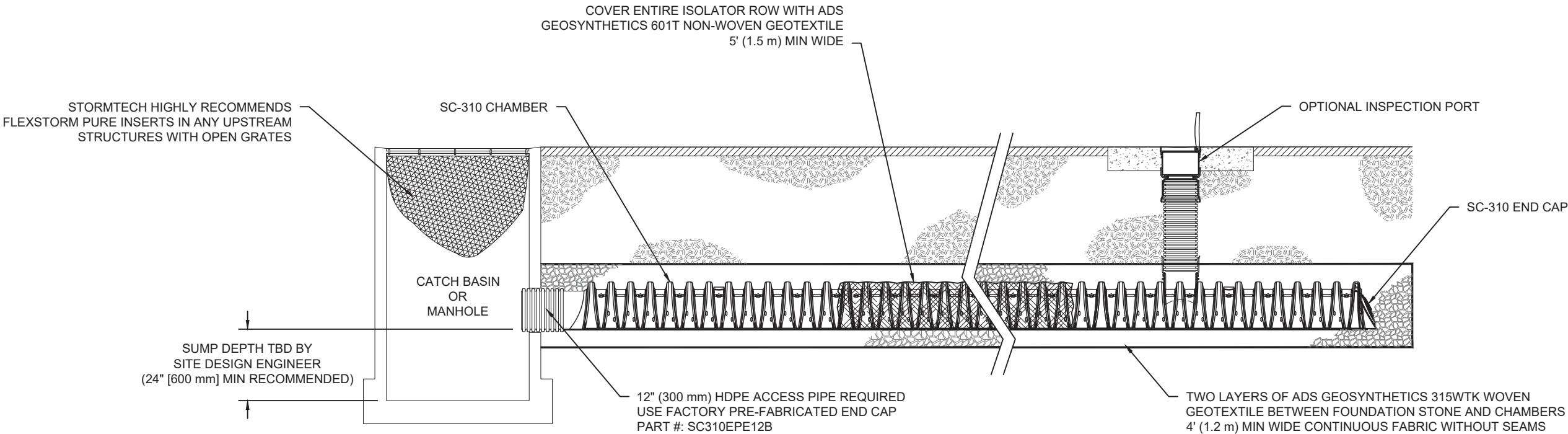


ADS  
ADVANCED DRAINAGE SYSTEMS, INC.

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HILLIARD, OH 43026  
1-800-733-7473

SHEET  
3 OF 5

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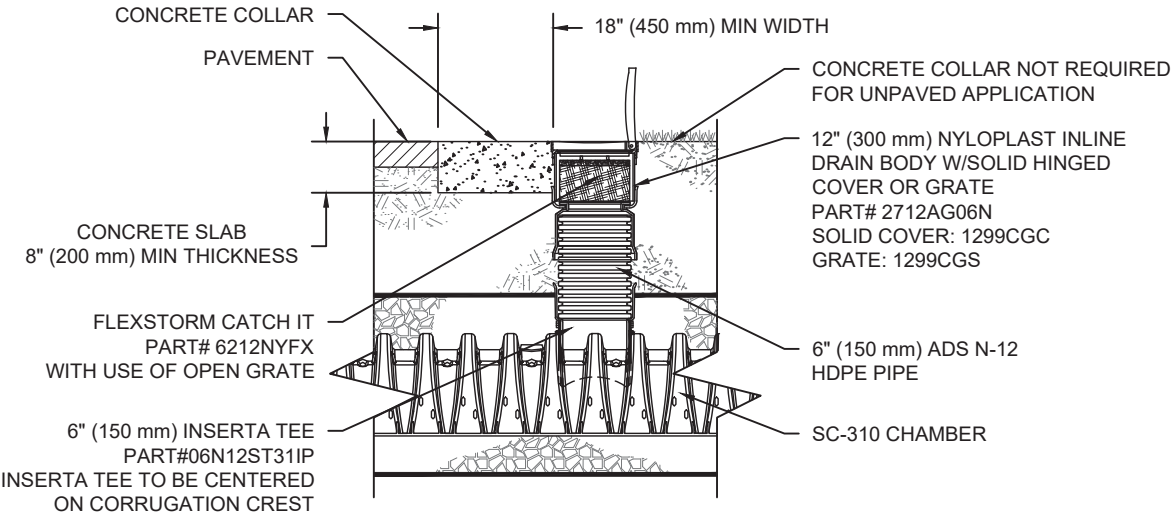
SC-310 ISOLATOR ROW DETAIL  
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
- A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
- A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
- B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
- i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
- ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
- B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

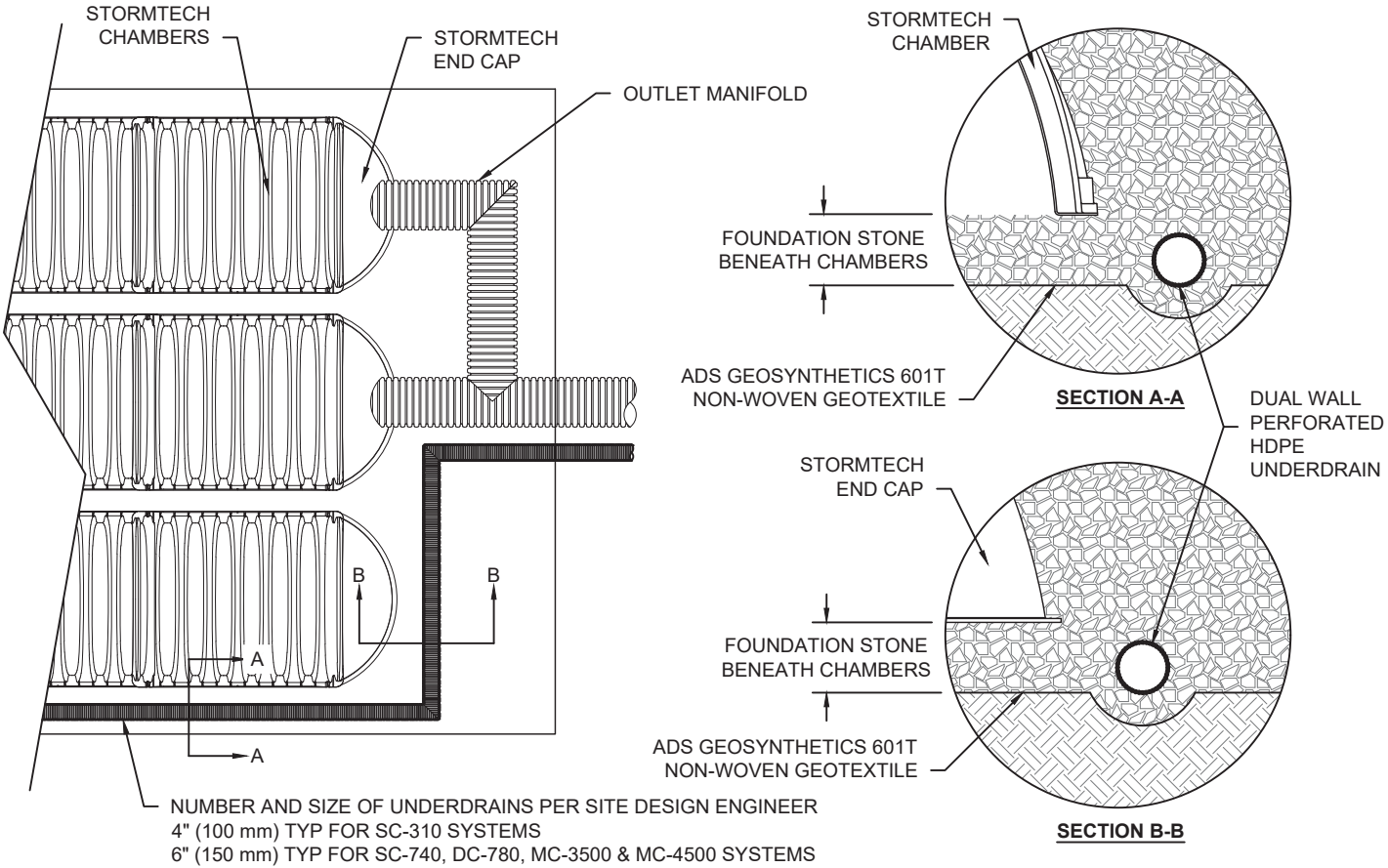


SC-310 6" INSPECTION PORT DETAIL  
NTS

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |           |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|-----------|-----------------|
| The Meadowslands (A-4)<br>Madison, WI                                                                                                                                                                                                                                                                                                                                                                                           |     | DATE: 01/29/2019 | DRAWN: BA | CHECKED: ---    |
| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                     | CHK | DRW              | REV       | PROJECT #: Tool |
| <br>70 INWOOD ROAD, SUITE 3   ROCKY HILL   CT   06067<br>860-529-8188   888-892-2694   WWW.STORMTECH.COM                                                                                                                                                                                                                                   |     |                  |           |                 |
| 4640 TRUEMAN BLVD<br>HILLIARD, OH 43026<br>1-800-733-7473                                                                                                                                                                                                                                                                                                                                                                       |     |                  |           |                 |
| ADVANCED DRAINAGE SYSTEMS, INC.                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |           |                 |
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| SHEET<br>4 OF 5                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |           |                 |

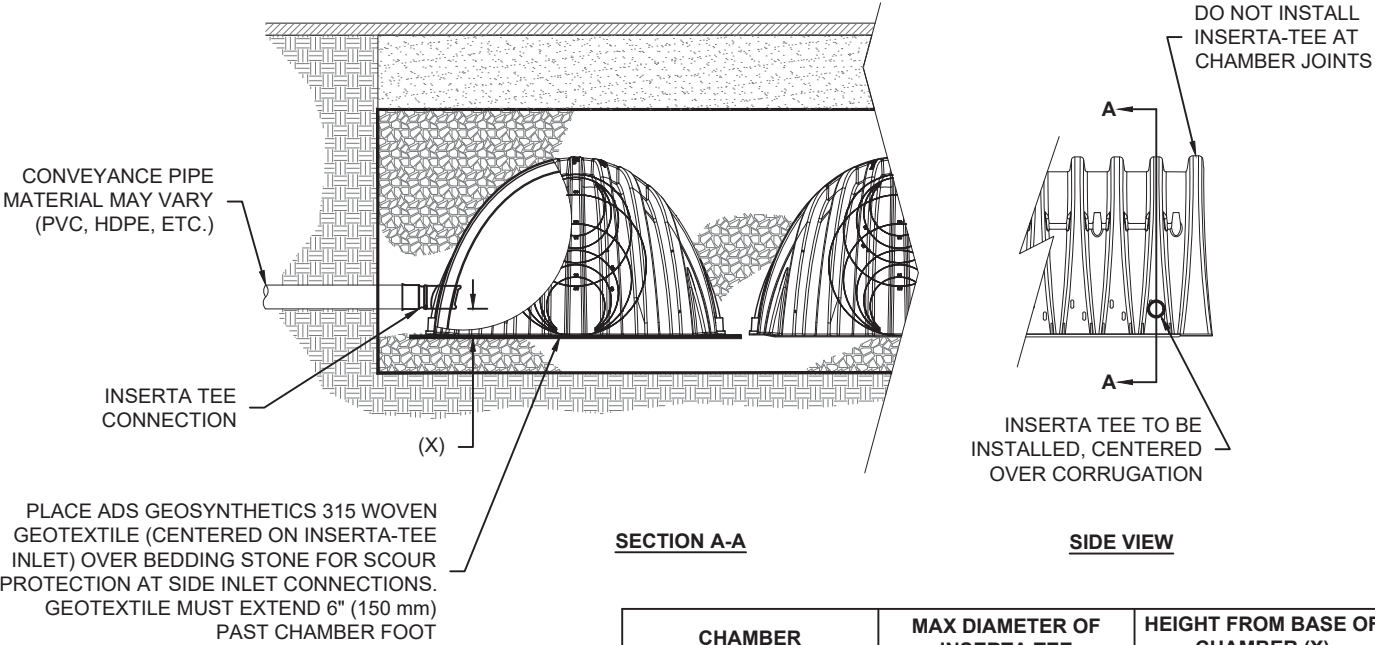
UNDERDRAIN DETAIL

NTS



INSERTA TEE DETAIL

NTS



SECTION A-A

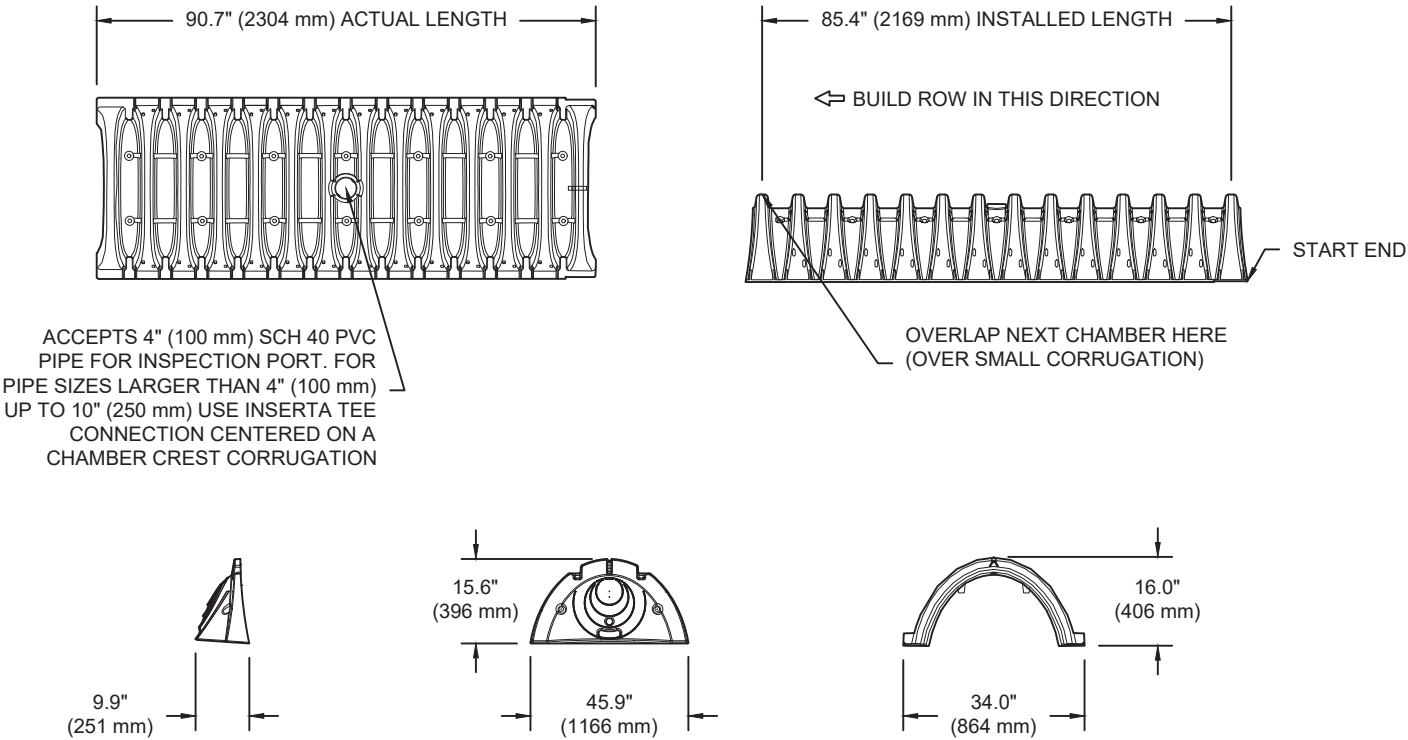
SIDE VIEW

| CHAMBER                                                                                                                      | MAX DIAMETER OF INSERTA TEE | HEIGHT FROM BASE OF CHAMBER (X) |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|
| SC-310                                                                                                                       | 6" (150 mm)                 | 4" (100 mm)                     |
| SC-740                                                                                                                       | 10" (250 mm)                | 4" (100 mm)                     |
| DC-780                                                                                                                       | 10" (250 mm)                | 4" (100 mm)                     |
| MC-3500                                                                                                                      | 12" (300 mm)                | 6" (150 mm)                     |
| MC-4500                                                                                                                      | 12" (300 mm)                | 8" (200 mm)                     |
| INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON |                             |                                 |

**NOTE:**  
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS.  
CONTACT STORMTECH FOR MORE INFORMATION.

SC-310 TECHNICAL SPECIFICATION

NTS



NOMINAL CHAMBER SPECIFICATIONS

| SIZE (W X H X INSTALLED LENGTH) | 34.0" X 16.0" X 85.4" | (864 mm X 406 mm X 2169 mm) |
|---------------------------------|-----------------------|-----------------------------|
| CHAMBER STORAGE                 | 14.7 CUBIC FEET       | (0.42 m³)                   |
| MINIMUM INSTALLED STORAGE*      | 31.0 CUBIC FEET       | (0.88 m³)                   |
| WEIGHT                          | 35.0 lbs.             | (16.8 kg)                   |

\*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"  
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

| PART #                      | STUB         | A              | B             | C            |
|-----------------------------|--------------|----------------|---------------|--------------|
| SC310EPE06T / SC310EPE06TPC | 6" (150 mm)  | 9.6" (244 mm)  | 5.8" (147 mm) | ---          |
| SC310EPE06B / SC310EPE06BPC |              |                | ---           | 0.5" (13 mm) |
| SC310EPE08T / SC310EPE08TPC | 8" (200 mm)  | 11.9" (302 mm) | 3.5" (89 mm)  | ---          |
| SC310EPE08B / SC310EPE08BPC |              |                | ---           | 0.6" (15 mm) |
| SC310EPE10T / SC310EPE10TPC | 10" (250 mm) | 12.7" (323 mm) | 1.4" (36 mm)  | ---          |
| SC310EPE10B / SC310EPE10BPC |              |                | ---           | 0.7" (18 mm) |
| SC310EPE12B                 | 12" (300 mm) | 13.5" (343 mm) | ---           | 0.9" (23 mm) |

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

\* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm).  
BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

The Meadowlands (A-4)  
Madison, WI

DESCRIPTION

CHK

REV

**StormTech**  
Detention/Retention Water Quality  
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860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

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**ADS**  
ADVANCED DRAINAGE SYSTEMS, INC.

DRAWN: BA

DATE: 01/29/2019

PROJECT #: Tool

CHECKED: ---

SHEET

5 OF 5

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

GENERAL NOTES

1. DRAWINGS ARE INTENDED TO BE PRINTED ON 22" X 34" PAPER. PRINTING THESE DRAWINGS AT A DIFFERENT SIZE WILL IMPACT THE SCALE. VERIFY THE GRAPHIC SCALE BEFORE REFERENCING ANY MEASUREMENTS ON THESE SHEETS. THE RECIPIENT OF THESE DRAWINGS SHALL BE RESPONSIBLE FOR ANY ERRORS RESULTING FROM INCORRECT PRINTING, COPYING, OR ANY OTHER CHANGES THAT ALTER THE SCALE OF THE DRAWINGS.
2. VERIFY ALL PLAN DIMENSIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE OWNERS REPRESENTATIVE TO ADDRESS ANY QUESTIONS OR CLARIFY ANY DISCREPANCIES.
3. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
4. GEOTECHNICAL SOILS REPORT RECOMMENDATIONS SHALL BE FOLLOWED DURING CONSTRUCTION. THE CONTRACTOR SHALL USE THESE CONTRACT DOCUMENTS AS A BASIS FOR THE BID.
5. CONTRACTOR SHALL CONFIRM THAT SITE CONDITIONS ARE SIMILAR TO THE PLANS, WITHIN TOLERANCES STATED IN THE CONTRACT DOCUMENTS, AND SATISFACTORY TO THE CONTRACTOR PRIOR TO START OF WORK. SHOULD SITE CONDITIONS BE DIFFERENT THAN REPRESENTED ON THE PLANS OR UNSATISFACTORY TO THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND FURTHER DIRECTION.
6. THE CONTRACTOR IS RESPONSIBLE TO PAY FOR, AND OBTAIN, ANY REQUIRED APPLICATIONS, PERMITTING, LICENSES, INSPECTIONS AND METERS ASSOCIATED WITH WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO ANY VIOLATIONS OR NON-CONFORMANCE WITH THE PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS, JURISDICTIONAL CODES, AND REGULATORY AGENCIES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UTILITY LOCATES PRIOR TO ANY EXCAVATION. REFER TO ENGINEERING UTILITY PLANS FOR ALL PROPOSED UTILITY LOCATIONS AND DETAILS. NOTIFY OWNERS REPRESENTATIVE IF EXISTING OR PROPOSED UTILITIES INTERFERE WITH THE ABILITY TO PERFORM WORK.
9. UNLESS IDENTIFIED ON THE PLANS FOR DEMOLITION OR REMOVAL, THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT OR EXISTING LANDSCAPE, ADJACENT OR EXISTING PAVING, OR ANY PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION, ESTABLISHMENT OR DURING THE SPECIFIED MAINTENANCE PERIOD. ALL DAMAGES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS AS DETERMINED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOGGING ANY DAMAGES PRIOR TO START OF CONSTRUCTION AND DURING THE CONTRACT PERIOD.
10. ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER'S REPRESENTATIVE PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE APPROPRIATE JURISDICTIONAL AGENCIES AND THE OWNERS REPRESENTATIVE IF THEIR WORK AND OPERATIONS AFFECT OR IMPACT THE PUBLIC RIGHTS-OF-WAY. OBTAIN APPROVAL PRIOR TO ANY WORK WHICH AFFECTS OR IMPACTS THE PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THIS REQUIREMENT DURING THE CONTRACT PERIOD.
13. SIGHT TRIANGLES AND SIGHT LINES SHALL REMAIN UNOBTSTRUCTED BY EQUIPMENT, CONSTRUCTION MATERIALS, PLANT MATERIAL OR ANY OTHER VISUAL OBSTACLE DURING THE CONTRACT PERIOD AND AT MATURITY OF PLANTS PER LOCAL JURISDICTIONAL REQUIREMENTS.
14. NO PLANT MATERIAL OTHER THAN GROUND COVER IS ALLOWED TO BE PLANTED ADJACENT TO FIRE HYDRANTS AS STIPULATED BY JURISDICTIONAL REQUIREMENTS.
15. COORDINATE SITE ACCESS, STAGING, STORAGE AND CLEANOUT AREAS WITH OWNER'S REPRESENTATIVE.
16. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SAFETY FENCING AND BARRIERS AROUND ALL IMPROVEMENTS SUCH AS WALLS, PLAY STRUCTURES, EXCAVATIONS, ETC. ASSOCIATED WITH THEIR WORK UNTIL SUCH FACILITIES ARE COMPLETELY INSTALLED PER THE PLANS, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THEIR MATERIAL STOCK PILES AND WORK FROM VANDALISM, EROSION OR UNINTENDED DISTURBANCE DURING THE CONSTRUCTION PERIOD AND UNTIL FINAL ACCEPTANCE IS ISSUED.
18. THE CONTRACTOR SHALL KNOW, UNDERSTAND AND ABIDE BY ANY STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ASSOCIATED WITH THE SITE. IF A STORM WATER POLLUTION PREVENTION PLAN IS NOT PROVIDED BY THE OWNER'S REPRESENTATIVE, REQUEST A COPY BEFORE PERFORMANCE OF ANY SITE WORK.
19. MAINTAIN ANY STORM WATER MANAGEMENT FACILITIES THAT EXIST ON SITE FOR FULL FUNCTIONALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ANY NEW STORM WATER MANAGEMENT FACILITIES THAT ARE IDENTIFIED IN THE SCOPE OF WORK TO FULL FUNCTIONALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER FOR FAILURE TO MAINTAIN STORM WATER MANAGEMENT FACILITIES DURING THE CONTRACT PERIOD.
20. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM EXITING THE SITE OR ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION OR CONSTRUCTION OPERATIONS THAT ARE PART OF THE LANDSCAPE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS DURING THEIR CONTRACTED COURSE OF WORK.
21. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT ANY IMPACTS TO ADJACENT WATERWAYS, WETLANDS, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS RESULTING FROM WORK DONE AS PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE STANDARDS DURING THEIR CONTRACTED COURSE OF WORK.

GENERAL NOTES CONTINUED

22. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL LOADS OF CONSTRUCTION MATERIAL IMPORTED TO OR EXPORTED FROM THE PROJECT SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF MATERIAL DURING TRANSPORT. TRANSPORTATION METHODS ON PUBLIC RIGHT-OF WAYS SHALL CONFORM TO JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS.
23. THE CLEANING OF EQUIPMENT IS PROHIBITED AT THE JOB SITE UNLESS AUTHORIZED BY THE OWNER'S REPRESENTATIVE IN A DESIGNATED AREA. THE DISCHARGE OF WATER, WASTE CONCRETE, POLLUTANTS, OR OTHER MATERIALS SHALL ONLY OCCUR IN AREAS DESIGNED FOR SUCH USE AND APPROVED BY THE OWNER'S REPRESENTATIVE.
24. THE CLEANING OF CONCRETE EQUIPMENT IS PROHIBITED AT THE JOB SITE EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE IN THE STORM SEWER IS PROHIBITED.
25. LOCAL, STATE AND FEDERAL JURISDICTIONAL REQUIREMENTS, RESTRICTIONS OR PROCEDURES SHALL SUPERSEDE THESE PLANS, NOTES AND SPECIFICATIONS WHEN MORE STRINGENT. NOTIFY THE OWNERS REPRESENTATIVE IF CONFLICTS OCCUR.

GENERAL LANDSCAPE NOTES

1. UTILITY WARNING: THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.
2. NOTIFY UTILITY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION AND DEPTH OF ALL UTILITIES. AVOID DAMAGE TO UTILITIES AND SERVICES DURING CONSTRUCTION. ANY DAMAGE DUE TO THE CONTRACTOR'S CARELESSNESS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. COORDINATE AND COOPERATE WITH UTILITY COMPANIES DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS AND SPECIFICATIONS AS CLOSELY AS POSSIBLE. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.
4. ALL PLANT MATERIAL SHALL AT LEAST MEET MINIMUM REQUIREMENTS SHOWN IN THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1-LATEST EDITION).
5. MULCH SHALL NOT BE PLACED AROUND THE COLLAR OF SHRUB OR TREE. PROVIDE A MINIMUM OF 2" BETWEEN MULCH AND COLLAR OF SHRUB OR TREE.
6. ALL PLANT MATERIAL SHALL BE GROWN IN ZONE CAPABLE OF WITHSTANDING LOCAL CLIMATE AND GROWING CONDITIONS.
7. TREE OR SHRUB SHALL STAND PLUMB. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACK FILLING.
8. LIVE PLANTS CAN BE PLANTED IN THE FIELD DURING THE GROWING SEASON FROM MAY 1 THROUGH OCTOBER 1. ANY SUGGESTED PLANTING TIMES NOT IN THIS WINDOW SHALL BE APPROVED BY LANDSCAPE ARCHITECT. IF PLANTING OCCURS OUTSIDE OF THIS WINDOW, ADDITIONAL MEASURES MAY NEED TO BE TAKEN (I.E. MULCH) TO ENSURE PLANT SURVIVAL. IN THESE INSTANCES, THE CONTRACT PRICE MAY NEED TO BE ADJUSTED ACCORDINGLY.
9. PLANTS SHOULD BE WATERED IN AFTER INSTALLATION TO ENSURE THEIR SURVIVAL. THIS TYPICALLY INVOLVES WATERING AT TIME OF INSTALLATION AND 2 TIMES WEEKLY FOR A ONE MONTH PERIOD OR UNTIL GROUND FREEZE UP IF NATURAL RAINFALLS ARE INSUFFICIENT. A SINGLE WATERING EVENT INVOLVES WATERING THE SOIL IN THE PLANTED AREAS TO THE POINT OF SATURATION BUT STOPPING SHORT OF SOIL DISPLACEMENT. SHOULD VERY DRY CONDITIONS DEVELOP WITHIN ONE YEAR OF PLANTING, ADDITIONAL WATERINGS MAY BE NECESSARY. CONSULTANT OR LANDSCAPE ARCHITECT WILL DETERMINE THIS AND CONTRACT PRICES MAY BE ADJUSTED TO ACCOMMODATE THIS ACTION.
10. ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY, HEALTHY, FREE OF DISEASE AND INSECTS AND SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS. PLANTS SHALL ALSO BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT VIGOROUS GROWTH.
11. ALL PROPOSED PLANTS SHALL BE LOCATED AS SHOWN ON PLANS. ALL TREES TO BE PLANTED A MINIMUM DISTANCE OF 5 FEET FROM PAVEMENTS AND 6 FEET FROM ALL HYDRANTS.
12. CONTRACTOR IS RESPONSIBLE FOR PLANTS AWAITING INSTALLATION AND SHALL PROTECT THEM FROM INJURY AND THEFT.
13. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. GRAPHIC QUANTITIES TAKES PRECEDENCE OVER WRITTEN QUANTITIES.
14. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE OWNERS REPRESENTATIVE MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.
15. THE OWNER'S REPRESENTATIVE MAY ELECT TO UPSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE-STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.
16. THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS.
17. LANDSCAPE MATERIAL LOCATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION MAINLINE AND LATERAL LOCATIONS. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.

GENERAL LANDSCAPE NOTES CONTINUED

18. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE.
19. PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENED TO A DEPTH OF 8" -12" AND AMENDED PER SPECIFICATIONS.
20. ALL LANDSCAPED AREAS ARE TO RECEIVE ORGANIC SOIL PREPARATION PER RATE IDENTIFIED BY A SOIL TEST OR AS NOTED IN THE TECHNICAL SPECIFICATIONS.
21. TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.
22. THE CENTER OF EVERGREEN TREES SHALL NOT BE PLACED CLOSER THAN 8' AND THE CENTER OF ORNAMENTAL TREES CLOSER THAN 6' FROM A SIDEWALK, STREET OR DRIVE LANE. EVERGREEN TREES SHALL NOT BE LOCATED ANY CLOSER THAN 15' FROM IRRIGATION ROTOR HEADS. NOTIFY OWNER'S REPRESENTATIVE IF TREE LOCATIONS CONFLICT WITH THESE STANDARDS FOR FURTHER DIRECTION.
23. ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
24. ALL TREES ARE TO BE STAKED AND GUYED PER DETAILS FOR A PERIOD OF 1 YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STAKES AT THE END OF 1 YEAR FROM ACCEPTANCE OF LANDSCAPE INSTALLATION BY THE OWNERS REPRESENTATIVE. OBTAIN APPROVAL BY OWNERS REPRESENTATIVE PRIOR TO REMOVAL.
25. ALL TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE PRIOR TO DOING WORK.
26. ALL TREES IN SEED OR TURF AREAS SHALL RECEIVE MULCH RINGS. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.
27. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH NEW SOD TO MATCH EXISTING TURF SPECIES. DISTURBED NATIVE AREAS WHICH ARE TO REMAIN SHALL BE OVER SEEDDED AND RESTORED WITH SPECIFIED SEED MIX.
28. WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE PLANS.
29. WHEN PLANTER POTS ARE SHOWN ON PLANS, CONTRACTOR SHALL INCLUDE THE FOLLOWING: PLANTER MIX, ANNUAL FLOWER PLANTING PROGRAM (INCLUDES 2 PLANTINGS FOR THE 1ST YEAR (SPRING AND FALL) AND WINTER HAND-WATERING AS NEEDED. UNLESS OTHERWISE SPECIFIED, CONTRACTOR TO PROVIDE ANNUAL PLANTING SELECTION FOR REVIEW BY OWNER. IRRIGATION FOR PLANTERS TO BE ON SEPARATE ZONE(S). CONTRACTOR TO COORDINATE PLACEMENT OF NECESSARY SLEEVEING PRIOR TO PLACEMENT OF PAVEMENT.
30. PRIOR TO THE PLACEMENT OF MULCH AND WEED FABRIC, A GRANULAR, PRE-EMERGENT, WEED CONTROL AGENT SHALL BE ADDED TO ALL PLANTING BEDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION, EXCEPT AROUND ORNAMENTAL GRASSES.
31. THE CONTRACTOR IS EXPECTED TO KNOW AND UNDERSTAND THE CITY AND COUNTY SPECIFICATIONS FOR LANDSCAPE AND IRRIGATION. IN CASES OF DISCREPANCIES THE HIGHER OF THE TWO STANDARDS SHALL HAVE PRECEDENCE.
32. ALL TREES PLANTED WITHIN RIGHT-OF-WAY WILL INCLUDE CITY APPROVED ROOT BARRIERS.
33. REFER TO SHEET IR101-IR104 FOR THE IRRIGATION PLAN AND POINT OF CONNECTION INFORMATION.



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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WIS. STATUTE 182.0175 (1974)  
REQUIRES MIN. OF 3 WORK DAYS  
NOTICE BEFORE YOU EXCAVATE

| PLANT SCHEDULE     |     |                                             |                                  |              |             |                     |
|--------------------|-----|---------------------------------------------|----------------------------------|--------------|-------------|---------------------|
| QTY                | KEY | BOTANICAL NAME                              | COMMON NAME                      | INSTALL SIZE | MATURE SIZE | COMMENTS            |
| CANOPY TREES       |     |                                             |                                  |              |             |                     |
| 3                  | AG  | Ginkgo biloba 'Autumn Gold'                 | AUTUMN GOLD GINKGO               | 2 1/2" Cal.  | 50'h x 40'w | B&B (MALE ONLY)     |
| 10                 | RO  | Quercus rubra                               | NORTHERN RED OAK                 | 2 1/2" Cal.  | 60'h x 60'w | B&B                 |
| 13                 | SH  | Gleditsia tricanthos var. inermis 'Skycole' | SKYLINE HONEYLOCUST              | 2 1/2" Cal.  | 50'h x 20'w | B&B                 |
| 23                 | SM  | Acer x freemanii 'Sienna'                   | SIENNA GLEN MAPLE                | 2 1/2" Cal.  | 60'h x 40'w | B&B                 |
| 10                 | TE  | Ulmus 'Morton Glossy'                       | TRIUMPH ELM                      | 2 1/2" Cal.  | 55'h x 45'w | B&B                 |
| 5                  | EQ  | Acer platanoides 'Emerald Queen'            | EMERALD QUEEN MAPLE              | 2 1/2" Cal.  | 50'h x 40'w | B&B                 |
| 4                  | LG  | Tilia cordata                               | GREENSPIRE LINDEN                | 2 1/2" Cal.  | 40'h x 30'w | B&B                 |
| EVERGREEN TREES    |     |                                             |                                  |              |             |                     |
| 13                 | SJ  | Juniperus scopulorum 'Baligh'               | SKYHIGH JUNIPER                  | 4"           | 12'h x 5'w  | B&B                 |
| 8                  | AP  | Pinus nigra                                 | AUSTRIAN PINE                    | 8"           | 50'h x 20'w | B&B                 |
| 7                  | SP  | Pinus Sylvestris                            | SCOTCH PINE                      | 8"           | 50'h x 20'w | B&B                 |
| ORNAMENTAL TREES   |     |                                             |                                  |              |             |                     |
| 18                 | PC  | Malus x 'Prairifire'                        | PRAIRIFIRE CRABAPPLE             | 1 1/2" Cal.  | 20'h x 20'w | B&B                 |
| 12                 | JP  | Pyrus calleryana 'Jazzam'                   | JACK FLOWERING PEAR              | 1 1/2" Cal.  | 20'h x 10'w | B&B                 |
| 7                  | AC  | Prunus maackii                              | AMUR CHOCKCHERRY                 | 1 1/2" Cal.  | 25'h x 20'w | B&B                 |
| 7                  | BW  | Betula populifolia 'Whitespire'             | WHITESPIRE BIRCH TWIN            | 1 1/2" Cal.  | 40'h x 20'w | B&B                 |
| DECIDUOUS SHRUBS   |     |                                             |                                  |              |             |                     |
| 2'-4' SPREAD       |     |                                             |                                  |              |             |                     |
| 9                  | GP  | Potentilla fruticosa 'Goldfinger'           | GOLDFINGER POTENTILLA            | 18" Ht.      | 3'h x 4'w   | #5 CONT. (4' O.C.)  |
| 0                  | GS  | Spiraea betulifolia 'TorGold'               | GLOW GIRL SPIREA                 | 18" Ht.      | 2'h x 4'w   | #5 CONT. (4' O.C.)  |
| 10                 | AF  | Cornus stolonifera 'Farrow'                 | ARCTIC FIRE DOGWOOD              | 18" Ht.      | 3'h x 3'w   | #5 CONT. (3' O.C.)  |
| 5'-7' SPREAD       |     |                                             |                                  |              |             |                     |
| 18                 | RC  | Cotoneaster horizontalis var. perpusilus    | ROCK COTONEASTER                 | 6" Ht.       | 1.5'h x 5'w | #5 CONT. (6' O.C.)  |
| 27                 | SF  | Forsythia x intermedia 'Mindor'             | SHOW OFF FORSYTHIA               | 24" Ht.      | 6'h x 6'w   | #5 CONT. (6' O.C.)  |
| 61                 | UC  | Aronia 'Erecta'                             | UPRIGHT RED CHOKEBERRY           | 18" Ht.      | 5'h x 5'w   | #5 CONT. (6' O.C.)  |
| 51                 | SN  | Nipponica 'Snowmound'                       | SNOWMOUND SPIREA                 | 24" Ht.      | 3'h x 5'w   | #5 CONT. (6' O.C.)  |
| 7" + SPREAD        |     |                                             |                                  |              |             |                     |
| 16                 | AS  | Amelanchier x grandiflora                   | AUTUMN BRILLIANCE SERVICEBERRY   | 36" Ht.      | 15'h x 10'  | CLUMP #15 CONT.     |
| 91                 | DB  | Euonymus alatus 'Compactus'                 | DWARF-WINGED BURNING BUSH        | 36" Ht.      | 9'h x 10w"  | #5 CONT. (6' O.C.)  |
| 71                 | FS  | Rhus aromatica                              | FRAGRANT SUMAC                   | 24" Ht.      | 5'h x 8'w   | #5 CONT. (7' O.C.)  |
| 51                 | BV  | Viburnum prunifolium                        | BLACKHAW VIBURNUM                | 24" Ht.      | 12'h x 12'w | #5 CONT. (10' O.C.) |
| EVERGREEN SHRUBS   |     |                                             |                                  |              |             |                     |
| 2'-4' SPREAD       |     |                                             |                                  |              |             |                     |
| 8                  | JJ  | Juniperus procumbens 'Nana'                 | DWARF JAPANESE GARDEN JUNIPER    | 12" Ht.      | 1.5'h x 4'w | #5 CONT. (4' O.C.)  |
| 5'-7' SPREAD       |     |                                             |                                  |              |             |                     |
| 125                | JA  | Juniperus horizontalis 'Plumosa'            | ANDORRA JUNIPER                  | 6" Ht.       | 18'h x 5'w  | #5 CONT. (6' O.C.)  |
| 43                 | DY  | T. Cuspidata 'Nana'                         | DWARF YEW (BREVIFOLIA)           | 18" Ht.      | 3'h x 6'w   | #5 CONT. (6' O.C.)  |
| 7" + SPREAD        |     |                                             |                                  |              |             |                     |
| 17                 | MP  | Pinus mugo var. pumilio                     | DWARF MUGO PINE                  | 24" Ht.      | 4'h x 10w   | #5 CONT. (6' O.C.)  |
| 21                 | RW  | Rhododendron catawbiense 'Album'            | WHITE CATAWBA RHODODENDRON       | 24" Ht.      | 6'h x 7'w   | #5 CONT. (6' O.C.)  |
| 15                 | TY  | T. x media 'tauntoni'                       | TAUNTON YEW                      | 24" Ht.      | 4'h x 7'w   | #5 CONT. (6' O.C.)  |
| ORNAMENTAL GRASSES |     |                                             |                                  |              |             |                     |
| 37                 | BA  | Boutelous gracilis 'blonde ambition'        | BLONDE AMBITION BLUE GRAMA GRASS | 8" Ht.       | 36" Ht.     | #1 CONT. (3' O.C.)  |
| 129                | SS  | Panicum virgatum 'shenandoah'               | SHENANDOAH SWITCH GRASS          | 8" Ht.       | 48" Ht.     | #1 CONT. (6' O.C.)  |
| 63                 | PD  | Sporobolus heterolepis                      | PRAIRIE DROPSEED                 | 8" Ht.       | 36" Ht.     | #1 CONT. (3' O.C.)  |
| 0                  | BB  | Andropogon gerardii                         | BIG BLUESTEM                     | 8" Ht.       | 62" Ht.     | #1 CONT. (4' O.C.)  |
| 86                 | LB  | Schizachyrium scoparium                     | LITTLE BLUESTEM                  | 8" Ht.       | 36" Ht.     | #1 CONT. (3' O.C.)  |

LANDSCAPE CALCULATIONS AND DISTRIBUTION

STREET FRONTAGE REQUIREMENTS:  
REQUIREMENT: 1 OVERSTORY TREE AND 5 SHRUBS PER 30 LF OF FRONTAGE

ADVANTAGE DRIVE: 269 LF/30 LF  
REQUIRED: 8.96 OVERSTORY TREES AND 44.8 SHRUBS  
PROPOSED: 10 TREES (7 OVRESTORY TREES AND 7 ORNAMENTAL/EVERGREEN TREES COUNTED AS 4) AND 127 SHRUBS

WIND STONE DRIVE (WEST SIDE OF STREET): 525 LF/30LF  
REQUIRED: 17.5 OVERSTORY TREES AND 87.5 SHRUBS  
PROPOSED: 18 TREES (14 OVERSTORY AND 8 ORNAMENTAL COUNTED AS 4) AND 90 SHRUBS

WIND STONE DRIVE (EAST SIDE OF STREET): 487 LF/30LF  
REQUIRED: 16.2 OVERSTORY TREES AND 81.6 SHRUBS  
PROPOSED: 15 (12 OVERSTORY TREES AND 6 ORNAMENTAL/EVERGREEN TREES COUNTED AS 3) AND 82 SHRUBS

MILWAUKEE STREET: 390 LF/30LF  
REQUIRED: 13 OVERSTORY TREES AND 65 SHRUBS  
PROPOSED: 15 TREES (9 OVERSTORY TREES AND 11 ORNAMENTAL TREES COUNTED AS 6) AND 144 SHRUBS

MEADOWS LAND DRIVE (NORTH SIDE OF STREET): 70 LF/30LF  
REQUIRED: 2.3 OVERSTORY TREES AND 11.6 SHRUBS  
PROPOSED: 5 TREES (2 OVER STORY AND 2 EVERGREEN COUNTED AS 1) AND 7 SHRUBS

MEADOWS LAND DRIVE (SOUTH SIDE OF STREET) 70 LF/30LF  
REQUIRED: 2.3 OVERSTORY TREES AND 11.6 SHRUBS  
PROPOSED: 3 TREES (2 OVER STORY AND 2 EVERGREEN COUNTED AS 1) AND 8 SHRUBS

INTERIOR PARKING LOT REQUIREMENTS:  
REQUIREMENT: 8% OF PAVEMENT AREA TO BE USED AS LANDSCAPED AREAS  
1 DECIDUOUS TREE FOR EVERY 160 SF OF LANDSCAPE AREA  
42,820 SF X 8% = 3,427 REQUIRED (5,970 SF PROVIDED)

REQUIREMENT: 1 SHADE TREE PER 160 SF OF REQUIRED LANDSCAPED AREA  
3,426 SF /160 SF = 21 TREES REQUIRED (17 PROVIDED - EXISTING GAS EASEMENTS RESTRICT THE AVAILABLE SPACE FOR REQUIRED TREES)

DEVELOPED LOT REQUIREMENTS:  
REQUIREMENT: 5 POINTS PER 300 SF OF DEVELOPED AREA FOR 5 ACRES AND 1 POINT PER 100 SF FOR ADDITIONAL ACRES  
TOTAL DEVELOPED AREA: 87,102 SF  
FIRST 5 ACRES = 3,630 POINTS  
REMAINING 2 ACRES = 871.20 POINTS  
TOTAL POINTS = 4,202  
TOTAL PROPOSED = 6,456

THE MEADOWLANDS - PHASE 11

LANDSCAPE NOTES

MADISON, WI

SNYDER & ASSOCIATES, INC.

6010 VOEGES ROAD  
MADISON, WISCONSIN 53718  
608-838-0444 | www.snyder-associates.com



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| # | # | # | # | # | BY               |
| # | # | # | # | # | DATE             |
| # | # | # | # | # | 1" =             |
| # | # | # | # | # | NOTED            |
| # | # | # | # | # | REVISION         |
| # | # | # | # | # | Checked By: MLC  |
| # | # | # | # | # | Date: 01-07-2019 |
| # | # | # | # | # | Field Bk:        |
| # | # | # | # | # | Engineer: BCA    |
| # | # | # | # | # | Technician: BCA  |
| # | # | # | # | # | MARK             |



1. TURF SEED MIX SHALL BE VELVET GREEN TURF MIX BY HERITAGE SEED COMPANY OR APPROVED EQUAL. MIX SHALL INCLUDE 40% KENTUCKY BLUEGRASS, 40% PERENNIAL RYEGRASS, 20% FINE FESCUE.
2. BLACK BEAUTY TALL FESCUE KENTUCKY BLUEGRASS (TFKB SOD) PROVIDED BY PAUL'S TURF & TREE NURSERY (608.655.3600) OR APPROVED EQUAL.
3. 2-6" COBBLE MULCH PROVIDED BY MILESTONE MATERIALS OR APPROVED EQUAL. SUBMIT SAMPLE FOR APPROVAL.
4. DECOMPOSED BROWN GRANITE WITH TACKIFIER PROVIDED BY MIDWEST DECORATIVE STONE & LANDSCAPE SUPPLY (608.273.9787) OR APPROVED EQUAL.
5. AQUA BLUE BOULDERS APPROXIMATELY 3' X 3' X 3' PROVIDED BY MIDWEST DECORATIVE STONE & LANDSCAPE SUPPLY (608.273.9787) OR APPROVE EQUAL. SUBMIT PHOTO SAMPLES PRIOR TO PURCHASE.
6. PROVIDE 3" DEPTH SHREDDED HARDWOOD MULCH AROUND ALL STAND-ALONE TREES TO A MIN. 3-FOOT PERIMETER, AND IN ALL AREAS NOTED ON PLANS OVER GEOTEXTILE WEED CONTROL FABRIC. NO WEED CONTROL FABRIC IS REQUIRED IN GROUND COVER OR PERENNIAL AREAS. MULCHED LANDSCAPE BEDS SHALL HAVE A SPADED VERTICAL EDGE WHEN PERIMETER IS NOT CONCRETE CURB.
7. MULCHED LANDSCAPE BEDS SHALL HAVE A SPADED VERTICAL EDGE AT 4" DEPTH WHEN PERIMETER IS NOT CONCRETE SIDEWALK OR CURB.
8. REFER TO CONSTRUCTION SEQUENCE FOR NOTES REGARDING SITE RESTORATION.

LANDSCAPE LEGEND

|                                                                                       |                                                                     |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|    | SOD, REFER TO CONSTRUCTION NOTES FOR TYPE                           |
|    | SHRUB BED WITH HARDWOOD MULCH, REFER TO CONSTRUCTION NOTES FOR TYPE |
|    | TURF SEED, REFER TO CONSTRUCTION NOTES FOR TYPE                     |
|    | DECOMPOSED GRANITE, REFER TO CONSTRUCTION NOTES FOR TYPE            |
|    | COBBLE, REFER TO CONSTRUCTION NOTES FOR TYPE                        |
|    | SPADE CUT EDGER AT 4" DEPTH                                         |
|    | DECIDUOUS CANOPY TREE                                               |
|    | LARGE DECIDUOUS ORNAMENTAL TREE                                     |
|    | EVERGREEN                                                           |
|  | DECIDUOUS SHRUBS                                                    |
|  | EVERGREEN SHRUBS                                                    |
|  | UPRIGHT EVERGREEN                                                   |
|  | ORNAMENTAL GRASSES                                                  |
|  | LANDSCAPE BOULDERS                                                  |



 TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

**CALL DIGGERS HOTLINE**  
**1-800-242-8511**  
**TOLL FREE**

WIS. STATUTE 182.0175 (1974)  
REQUIRES MIN. OF 3 WORK DAYS  
NOTICE BEFORE YOU EXCAVATE

| MARK | REVISION | DATE | BY |
|------|----------|------|----|
| #    | #        | #    | #  |
| #    | #        | #    | #  |
| #    | #        | #    | #  |
| #    | #        | #    | #  |
| #    | #        | #    | #  |

Engineer: BCA

Technician: BCA

Checked By: MLC

Date: 01-07-2019

Scale: 1" = NOTED

Field Bk: Pg:

118.1129.30

THE MEADOWLANDS - PHASE 11

LANDSCAPE PLAN

SNYDER & ASSOCIATES, INC.

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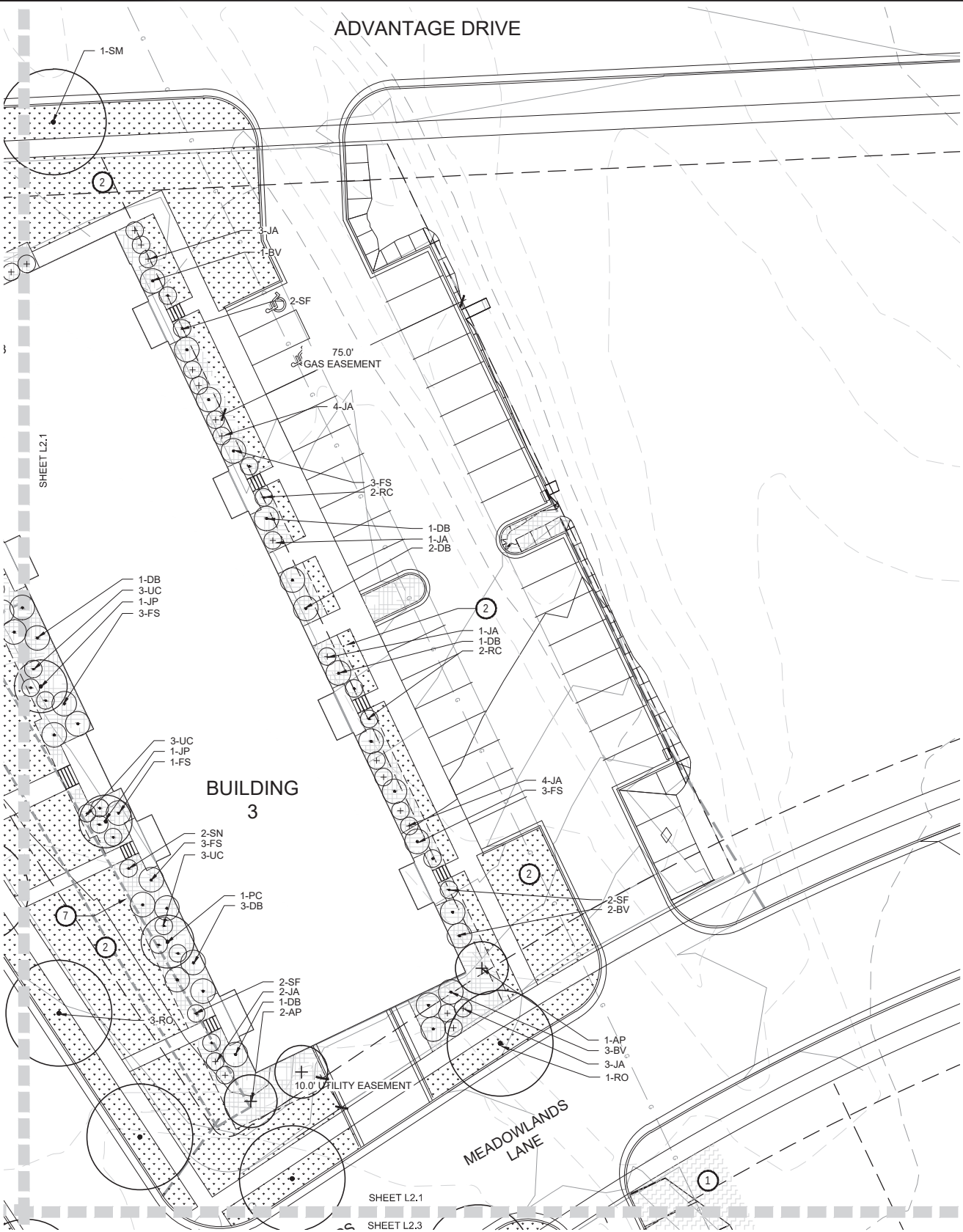
MADISON, WI



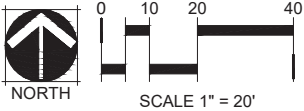
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PLANTING PLAN



PLANTING PLAN CONSTRUCTION NOTES

- 1. TURF SEED MIX SHALL BE VELVET GREEN TURF MIX BY HERITAGE SEED COMPANY OR APPROVED EQUAL. MIX SHALL INCLUDE 40% KENTUCKY BLUEGRASS, 40% PERENNIAL RYEGRASS, 20% FINE FESCUE.
- 2. BLACK BEAUTY TALL FESCUE KENTUCKY BLUEGRASS (TFKB SOD) PROVIDED BY PAUL'S TURF & TREE NURSERY (608.655.3600) OR APPROVED EQUAL.
- 3. 2-6" COBBLE MULCH PROVIDED BY MILESTONE MATERIALS OR APPROVED EQUAL. SUBMIT SAMPLE FOR APPROVAL.
- 4. DECOMPOSED BROWN GRANITE WITH TACKIFIER PROVIDED BY MIDWEST DECORATIVE STONE & LANDSCAPE SUPPLY (608.273.9787) OR APPROVED EQUAL.
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- 7. MULCHED LANDSCAPE BEDS SHALL HAVE A SPADED VERTICAL EDGE AT 4" DEPTH WHEN PERIMETER IS NOT CONCRETE SIDEWALK OR CURB.
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PLANT SCHEDULE

| KEY                | COMMON NAME                      |
|--------------------|----------------------------------|
| CANOPY TREES       |                                  |
| AG                 | AUTUMN GOLD GINKGO               |
| RO                 | NORTHERN RED OAK                 |
| SH                 | SKYLINE HONEYLOCUST              |
| SM                 | SIENNA GLEN MAPLE                |
| TE                 | TRIUMPH ELM                      |
| EQ                 | EMERALD QUEEN MAPLE              |
| LG                 | GREENSPIRE LINDEN                |
| EVERGREEN TREES    |                                  |
| SJ                 | SKYHIGH JUNIPER                  |
| AP                 | AUSTRIAN PINE                    |
| SP                 | SCOTCH PINE                      |
| ORNAMENTAL TREES   |                                  |
| PC                 | PRAIRIFIRE CRABAPPLE             |
| JP                 | JACK FLOWERING PEAR              |
| AC                 | AMUR CHOCKCHERRY                 |
| BW                 | WHITESPIRE BIRCH TWIN            |
| DECIDUOUS SHRUBS   |                                  |
| 2'-4' SPREAD       |                                  |
| GP                 | GOLDFINGER POTENTILLA            |
| GS                 | GLOW GIRL SPIREA                 |
| AF                 | ARCTIC FIRE DOGWOOD              |
| 5'-7' SPREAD       |                                  |
| RC                 | ROCK COTONEASTER                 |
| SF                 | SHOW OFF FORSYTHIA               |
| UC                 | UPRIGHT RED CHOKEBERRY           |
| SN                 | SNOWMOUND SPIREA                 |
| 7' + SPREAD        |                                  |
| AS                 | AUTUMN BRILLIANCE SERVICEBERRY   |
| DB                 | DWARF-WINGED BURNING BUSH        |
| FS                 | FRAGRANT SUMAC                   |
| BV                 | BLACKHAW VIBURNUM                |
| EVERGREEN SHRUBS   |                                  |
| 2'-4' SPREAD       |                                  |
| JJ                 | DWARF JAPANESE GARDEN JUNIPER    |
| 5'-7' SPREAD       |                                  |
| JA                 | ANDORRA JUNIPER                  |
| DY                 | DWARF YEW (BREVIFOLIA)           |
| 7' + SPREAD        |                                  |
| MP                 | DWARF MUGO PINE                  |
| RW                 | WHITE CATAWBA RHODODENDRON       |
| TY                 | TAUNTON YEW                      |
| ORNAMENTAL GRASSES |                                  |
| BA                 | BLONDE AMBITION BLUE GRAMA GRASS |
| SS                 | SHENANDOAH SWITCH GRASS          |
| PD                 | PRAIRIE DROPSEED                 |
| BB                 | BIG BLUESTEM                     |
| LB                 | LITTLE BLUESTEM                  |

LANDSCAPE LEGEND

SOD, REFER TO CONSTRUCTION NOTES FOR TYPE

SHRUB BED WITH HARDWOOD MULCH, REFER TO CONSTRUCTION NOTES FOR TYPE

TURF SEED, REFER TO CONSTRUCTION NOTES FOR TYPE

DECOMPOSED GRANITE, REFER TO CONSTRUCTION NOTES FOR TYPE

COBBLE, REFER TO CONSTRUCTION NOTES FOR TYPE

SPADE CUT EDGER AT 4" DEPTH

DECIDUOUS CANOPY TREE

LARGE DECIDUOUS ORNAMENTAL TREE

EVERGREEN

DECIDUOUS SHRUBS

EVERGREEN SHRUBS

UPRIGHT EVERGREEN

ORNAMENTAL GRASSES

LANDSCAPE BOULDERS

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1-800-242-8511  
TOLL FREE

WS. STATUTE 182.0175 (1974)  
REQUIRES MIN. OF 3 WORK DAYS  
NOTICE BEFORE YOU EXCAVATE

THE MEADOWLANDS - PHASE 11

LANDSCAPE PLAN

MADISON, WI

**SNYDER & ASSOCIATES**

118.1129.30  
L2.1

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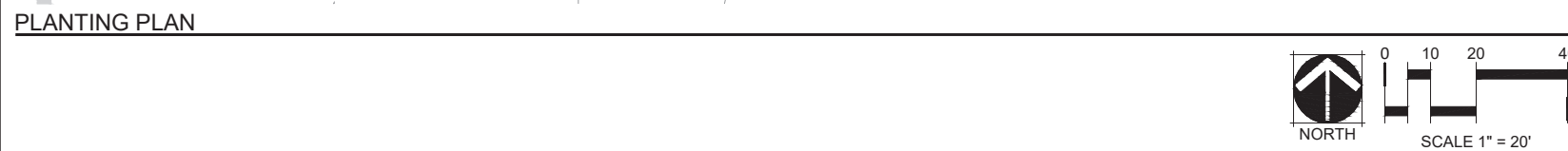
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**SNYDER & ASSOCIATES, INC.**



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# LANDSCAPE LEGEND

|                                                                                       |                                                                     |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|    | SOD, REFER TO CONSTRUCTION NOTES FOR TYPE                           |
|    | SHRUB BED WITH HARDWOOD MULCH, REFER TO CONSTRUCTION NOTES FOR TYPE |
|    | TURF SEED, REFER TO CONSTRUCTION NOTES FOR TYPE                     |
|    | DECOMPOSED GRANITE, REFER TO CONSTRUCTION NOTES FOR TYPE            |
|    | COBBLE, REFER TO CONSTRUCTION NOTES FOR TYPE                        |
|    | SPADE CUT EDGER AT 4" DEPTH                                         |
|    | DECIDUOUS CANOPY TREE                                               |
|    | LARGE DECIDUOUS ORNAMENTAL TREE                                     |
|    | EVERGREEN                                                           |
|  | DECIDUOUS SHRUBS                                                    |
|  | EVERGREEN SHRUBS                                                    |
|  | UPRIGHT EVERGREEN                                                   |
|  | ORNAMENTAL GRASSES                                                  |
|  | LANDSCAPE BOULDERS                                                  |



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PARTICIPANTS' UNDERGROUND  
FACILITIES BEFORE YOU  
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THE MEADOWLANDS - PHASE 11

LANDSCAPE PLAN

**SNYDER & ASSOCIATES, INC.**

MADISON, WI

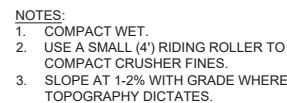
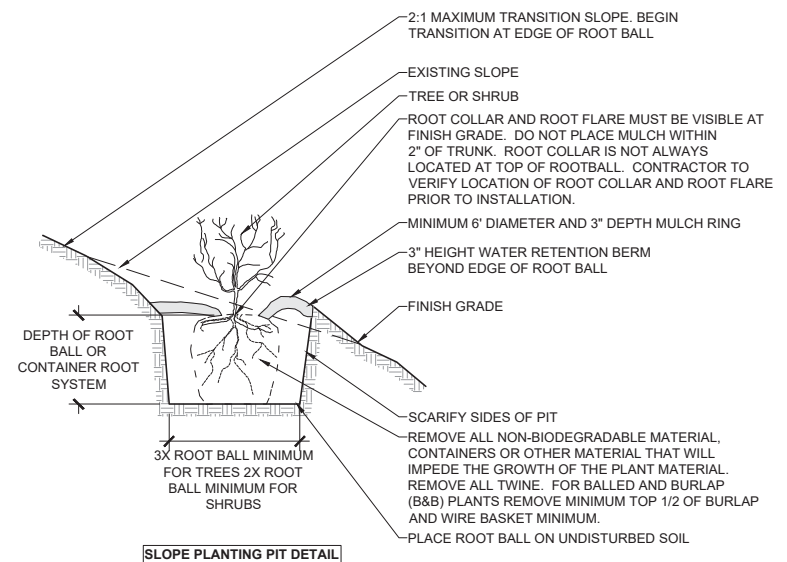
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MADISON, WISCONSIN 53718  
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**SNYDER  
& ASSOCIATES**

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L2.3



SCALE: 1" = 1'-0"

NO SCALE

[illegible]

## THE MEADOWLANDS - PHASE 11

LANDSCAPE DETAILS

**SNYDER & ASSOCIATES, INC.**

MADISON, WI

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MADISON, WISCONSIN 53718  
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**& ASSOCIATES**

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L3.0





# 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: 6810 Milwaukee Street                 |
| Contact Name & Phone #: Brian Arcand 608-838-0444 x224 |

## FIRE APPARATUS ACCESS AND FIRE HYDRANT WORKSHEET

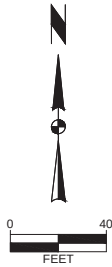
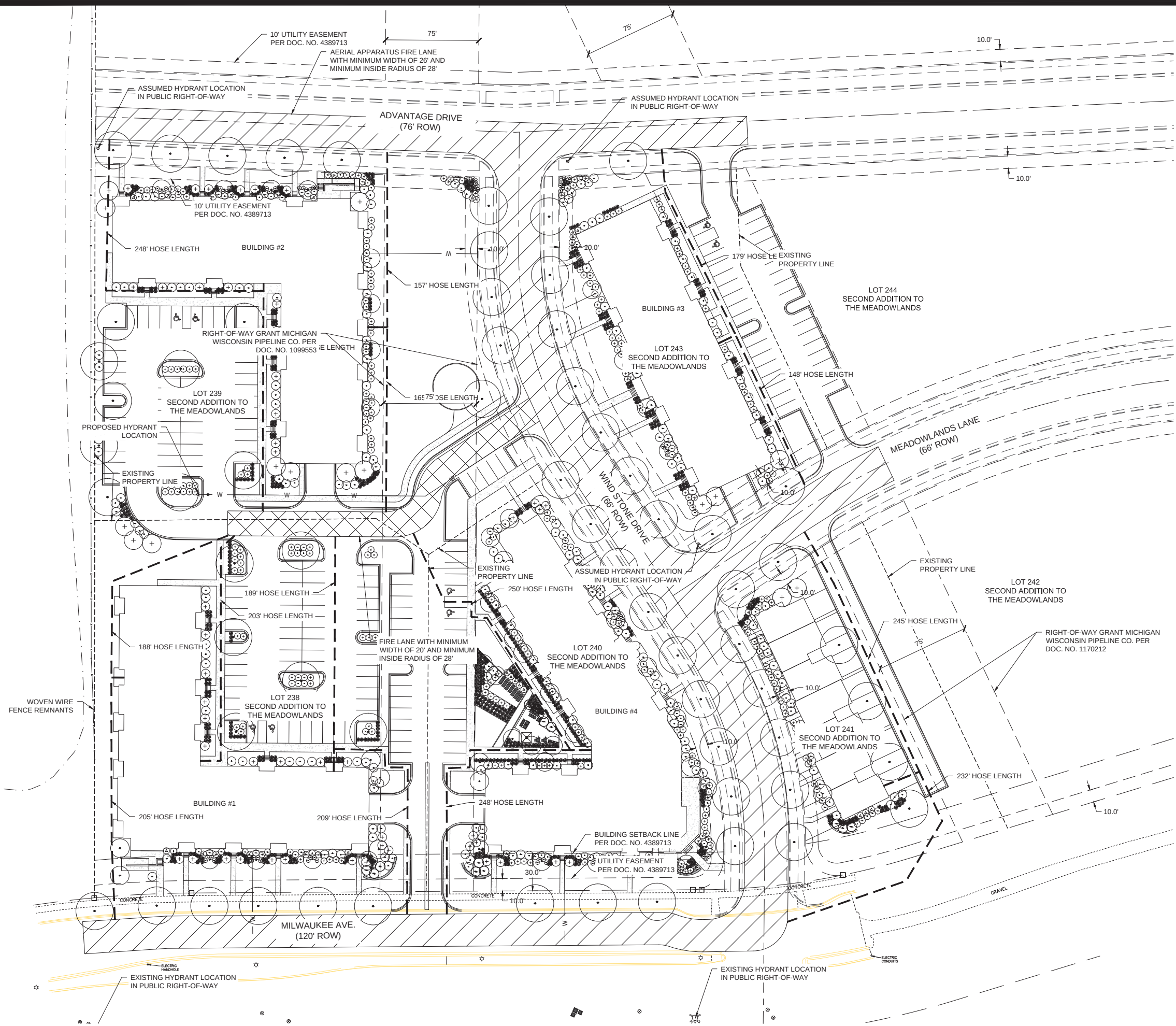
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Is the building completely protected by an NFPA 13 or 13R automatic fire sprinkler system?<br>If <b>non-sprinklered</b> , fire lanes extend to within 150-feet of all portions of the exterior wall?<br>If <b>sprinklered</b> , fire lanes are within 250-feet of all portions of the exterior wall?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> Yes                                                                                                                                                                                                  | <input 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 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%?<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 type="checkbox"/> Yes<br><input 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 type="checkbox"/> No<br><input checked="" type="checkbox"/> No<br><input checked="" 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<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-foot 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 type="checkbox"/> Yes<br><input type="checkbox"/> Yes                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> No<br><input type="checkbox"/> No                                                                                                                                                                                                                 | <input type="checkbox"/> N/A<br><input checked="" 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?<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><br><input checked="" type="checkbox"/> Yes<br><input checked="" 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><br><input type="checkbox"/> No<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> No<br><input type="checkbox"/> No<br><input type="checkbox"/> No<br><input type="checkbox"/> No                                                  | <input type="checkbox"/> N/A<br><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? | <input checked="" type="checkbox"/> Yes<br><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><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><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                                                             |

*Note: Hydrants shall be installed and in-service prior to combustible construction on the project site.*

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.

V:\Projects\20181129-30\CAD\118129-FIRE.dwg, 5/22/2019 3:40:23 PM, hcard, AUGCAD PDF (General Documentation) (PLOT), ANSI (Full Sheet) (34.00 x 22.00 inches), 1:1



THE MEADOWLANDS - PHASE 11

FIRE ACCESS PLAN

MADISON, WI

**SNYDER & ASSOCIATES, INC.**

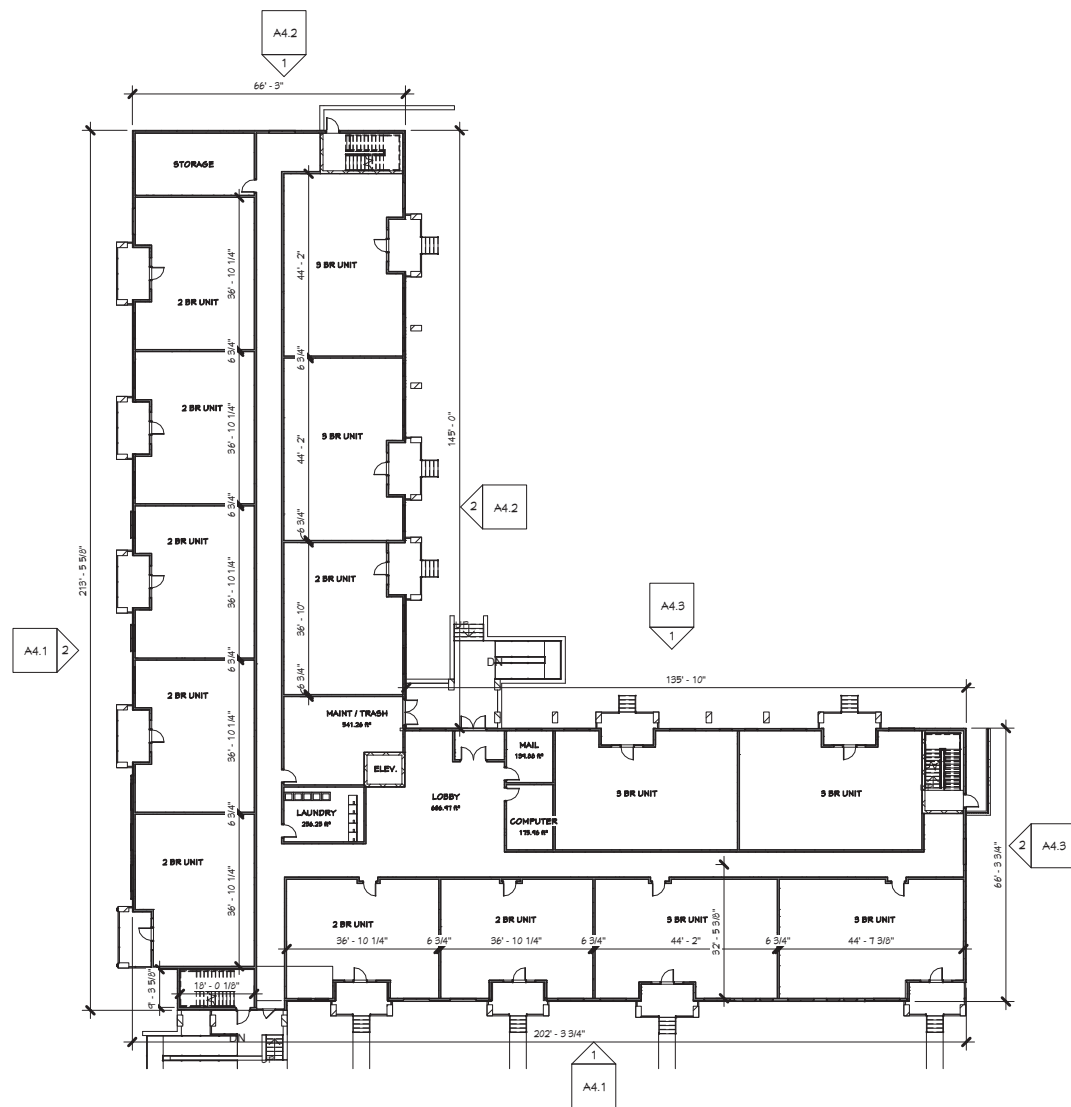


118.1129.30

EXHIBIT

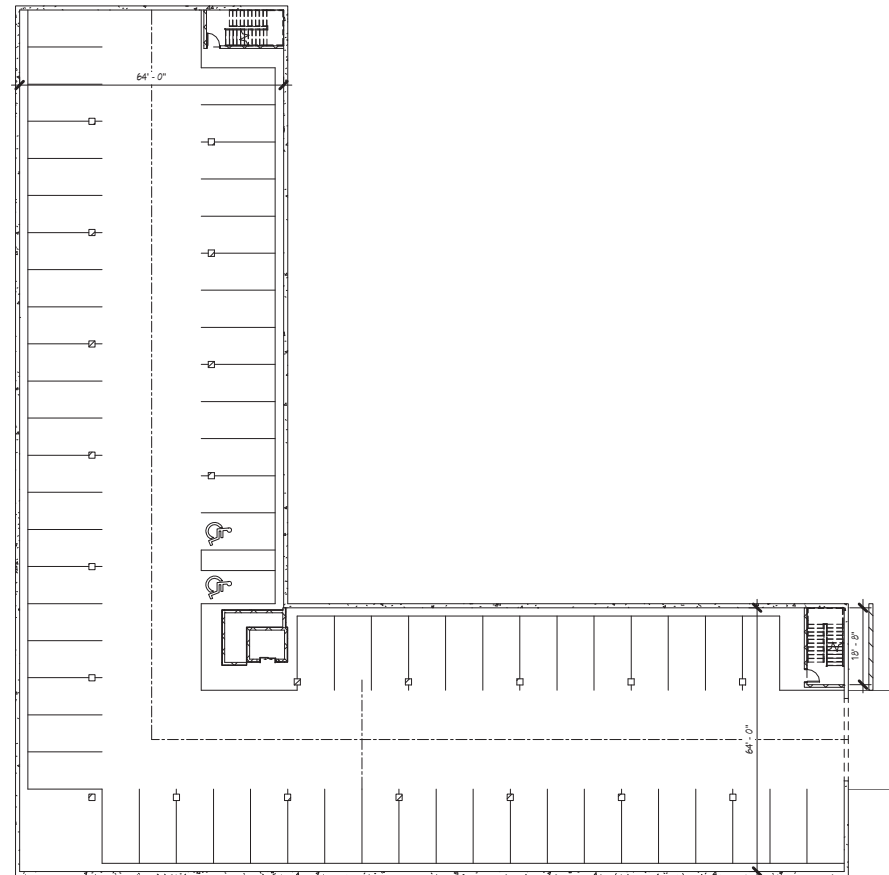
| MARK                    | REVISION         | DATE               | BY |
|-------------------------|------------------|--------------------|----|
| Engineer: BCA           | Checked By: MLC  | Scale: 1"=AS SHOWN |    |
| Technician: BCA         | Date: 05-22-2019 | T-P-S:             |    |
| Surveyed By:            | Date:            |                    |    |
| Project No: 118.1129.30 |                  |                    |    |

EXHIBIT



BLDG 1 - MAIN LEVEL PLAN

3/164" = 1'-0"



BLDG 1 - PARKING LEVEL PLAN

3/164" = 1'-0"

H

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F 231.1722.12589

MULTI-FAMILY HOUSING  
**THE MEADOWLANDS**  
MADISON, WI

KGC HOUSING DEVELOPMENT

Project Number **4-1125**

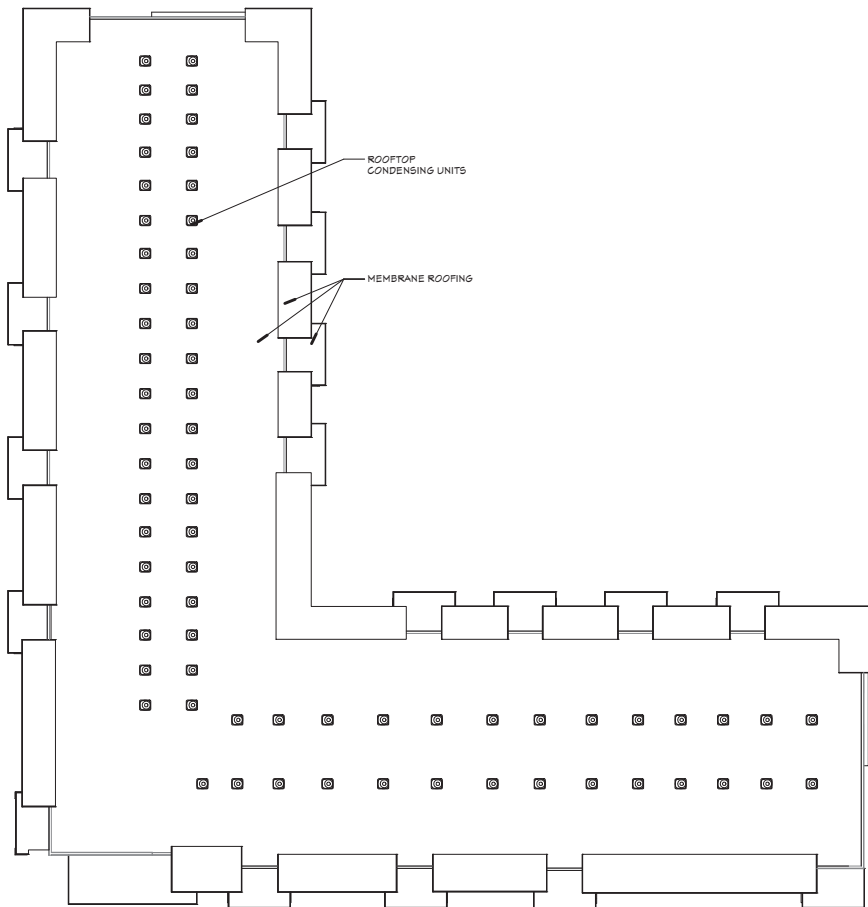
| ISSUANCE |            |                  |
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| 1        | 2019.05.28 | SITE PLAN REVIEW |

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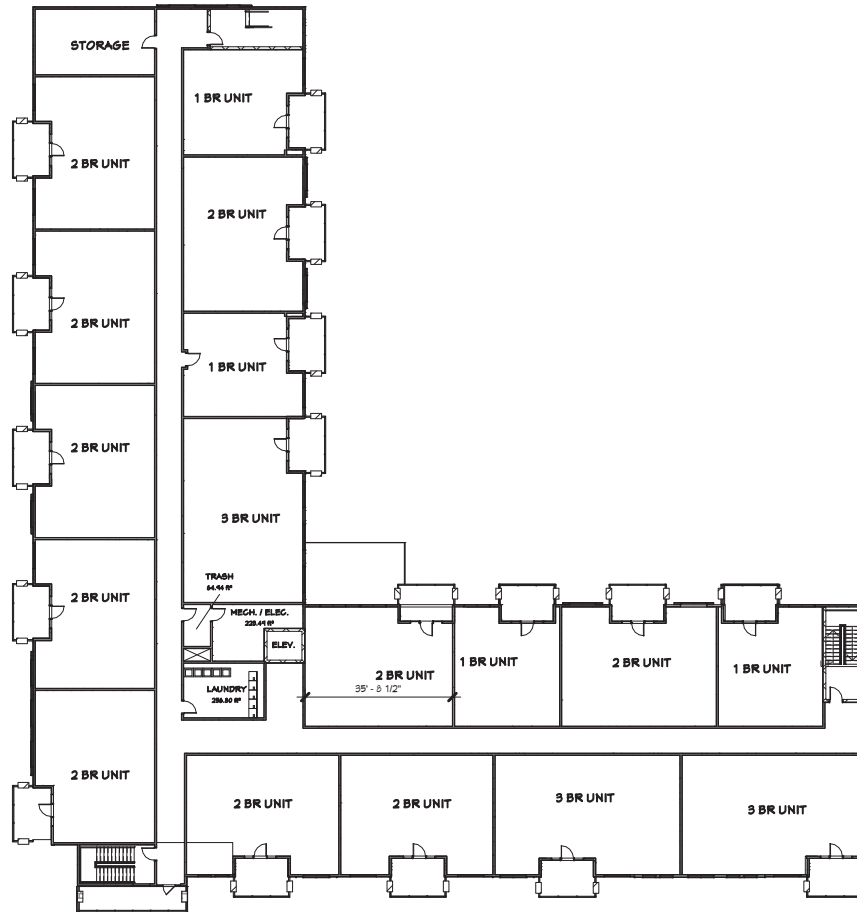
OVERALL FLOOR  
PLANS - BLDG 1  
(BLDG 2 SIM.)

A0.1



ROOF PLAN

3/64" = 1'-0"



BLDG 1 - SECOND FLOOR PLAN

3/64" = 1'-0"

(THIRD AND FOURTH SIM.)

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Description  
SITE PLAN  
REVIEW

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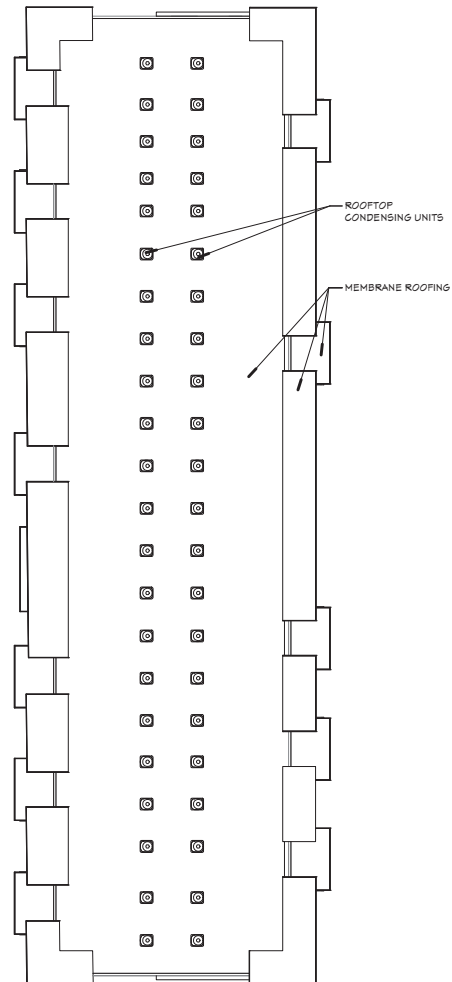
OVERALL FLOOR  
PLANS - BLDG 1  
(BLDG 2 SIM.)

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### BLDG 3 - ROOF PLAN

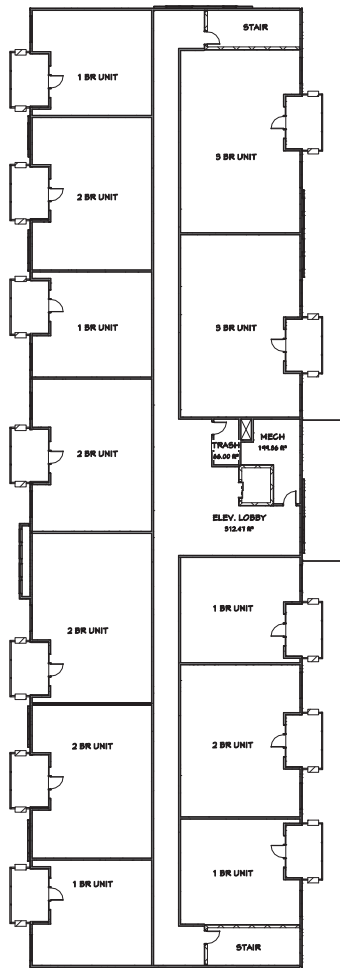
3/64" = 1'-0"



### BLDG 3 - SECOND FLOOR

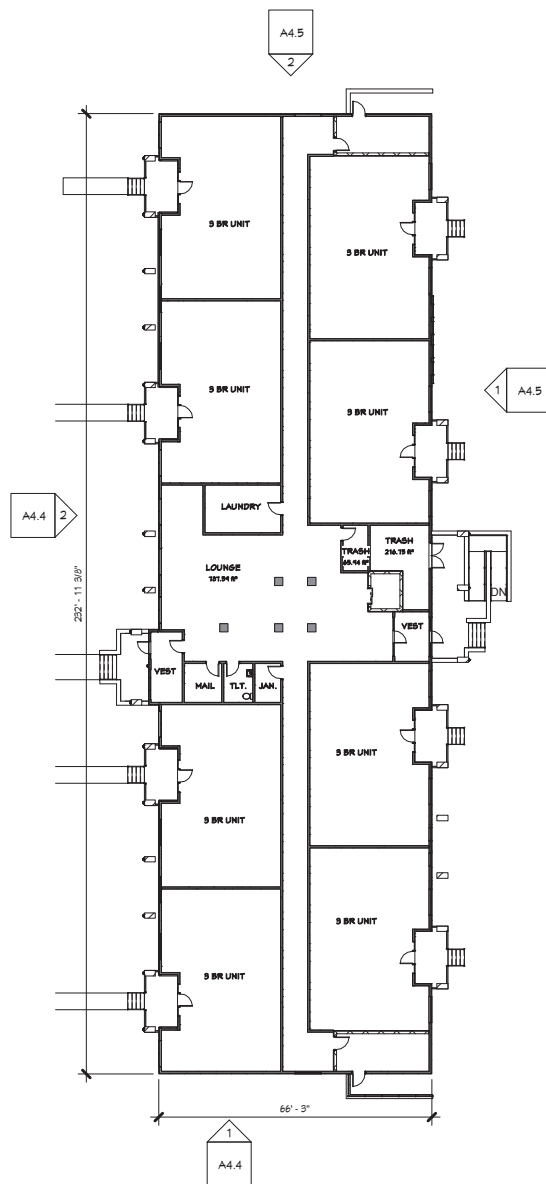
3/64" = 1'-0"

(THIRD AND FOURTH FLOOR SIM.)



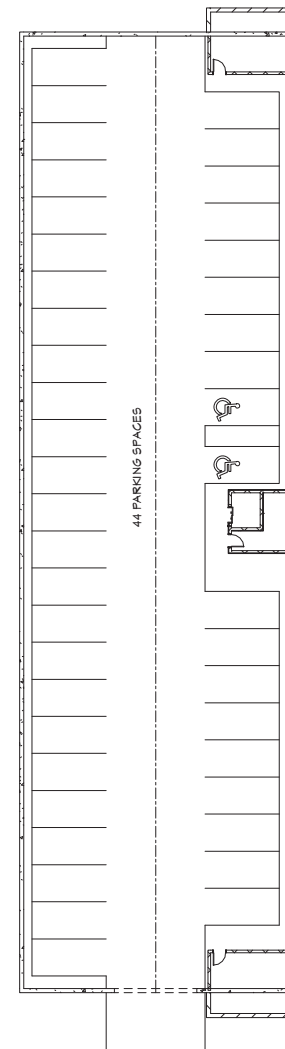
### BLDG 3 - FIRST FLOOR

3/64" = 1'-0"



### BLDG 3 - PARKING LEVEL

3/64" = 1'-0"



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MULTI-FAMILY HOUSING  
**THE MEADOWLANDS**  
MADISON, WI  
KGC HOUSING DEVELOPMENT

Project Number **4-1125**

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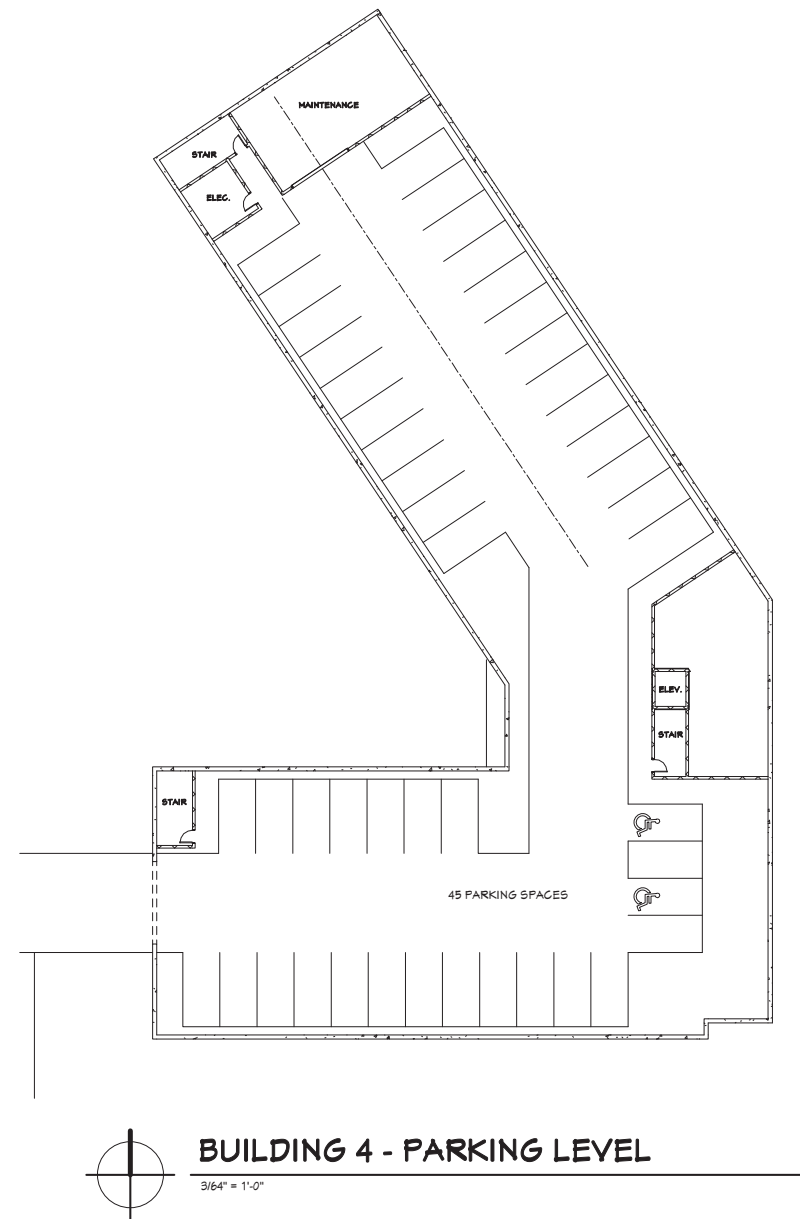
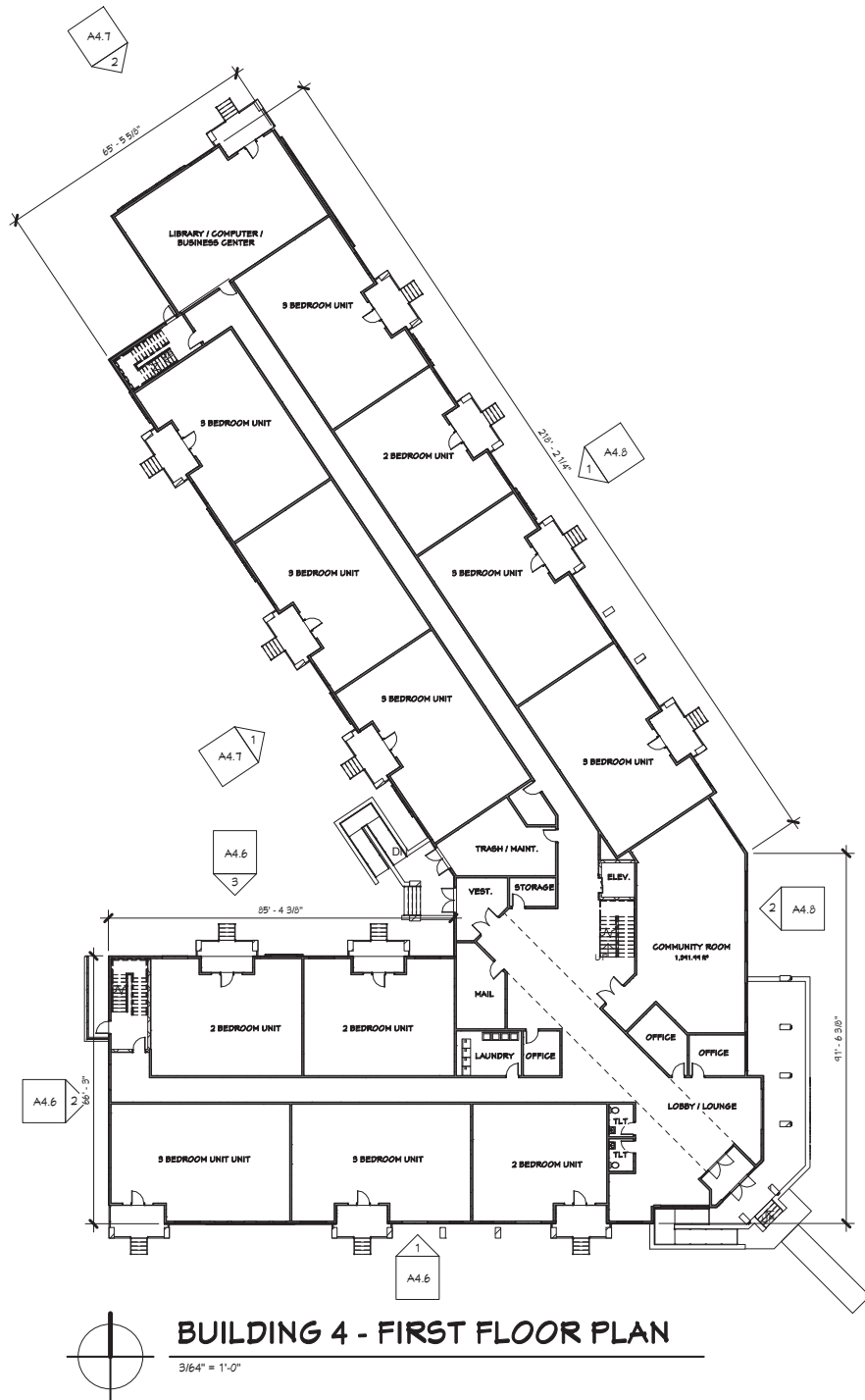
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| SITE PLAN REVIEW |  |

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OVERALL FLOOR  
PLANS - BLDG 3

A0.3



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MULTI-FAMILY HOUSING  
**THE MEADOWLANDS**  
MADISON, WI  
KGC HOUSING DEVELOPMENT

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|-----------------------|------------|------------------|
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OVERALL FLOOR  
PLANS - BLDG 4

A0.4

MULTI-FAMILY HOUSING  
***THE MEADOWLANDS***  
MADISON, WI

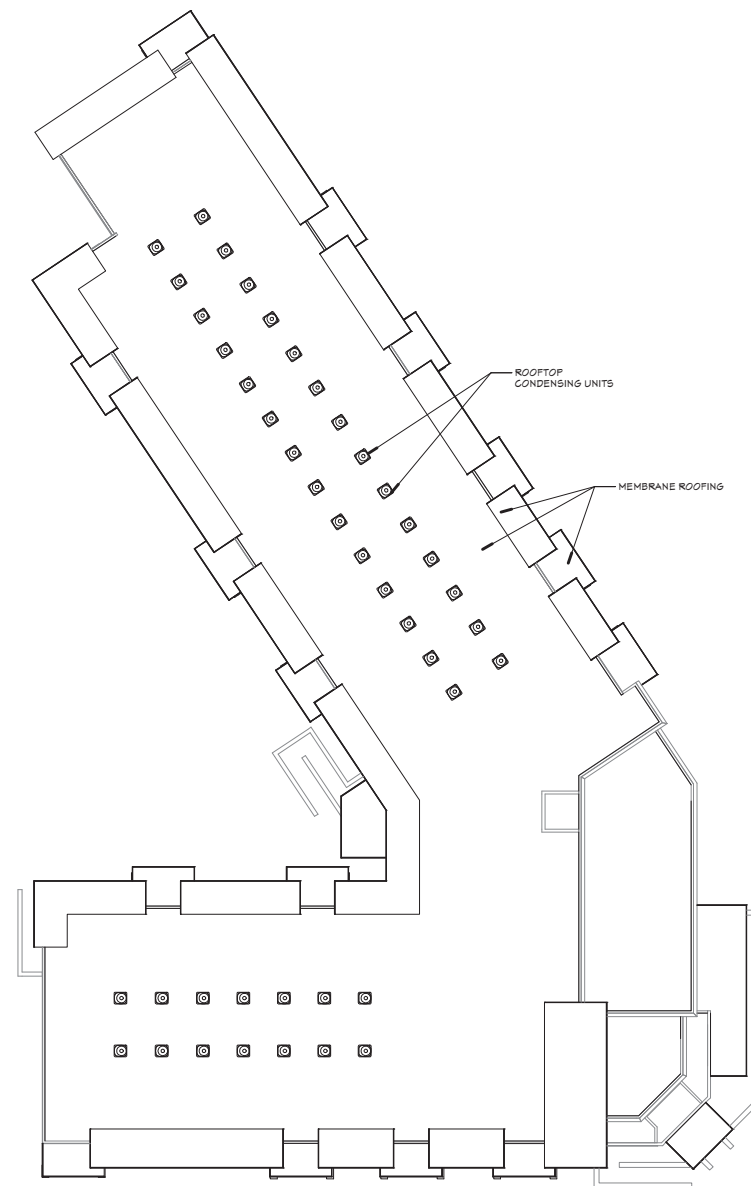
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| Project Number |            | 4-1125           |
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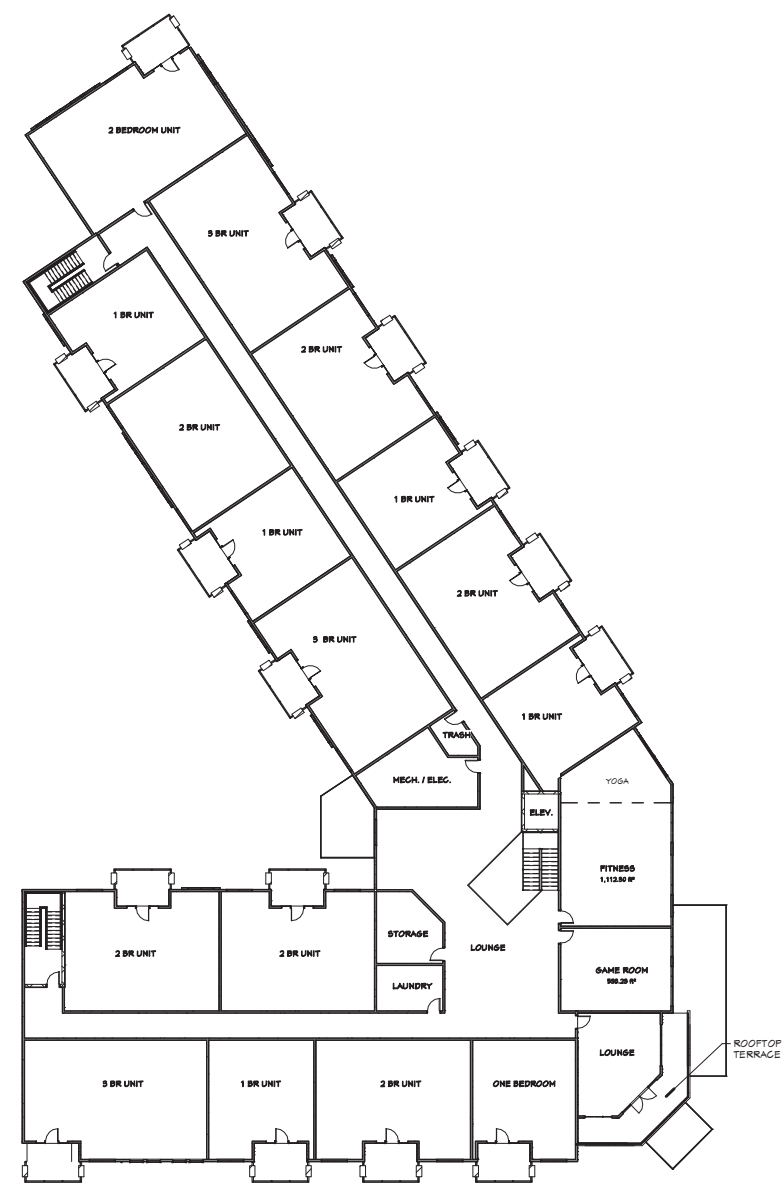
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OVERALL FLOOR  
PLANS - BLDG 4

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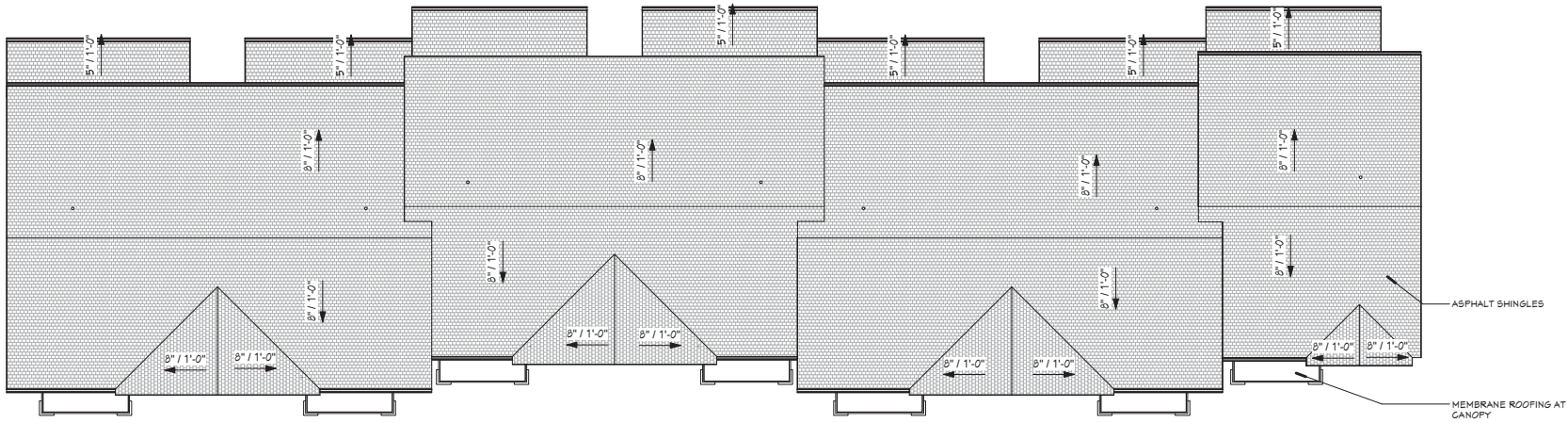


## ROOF PLAN

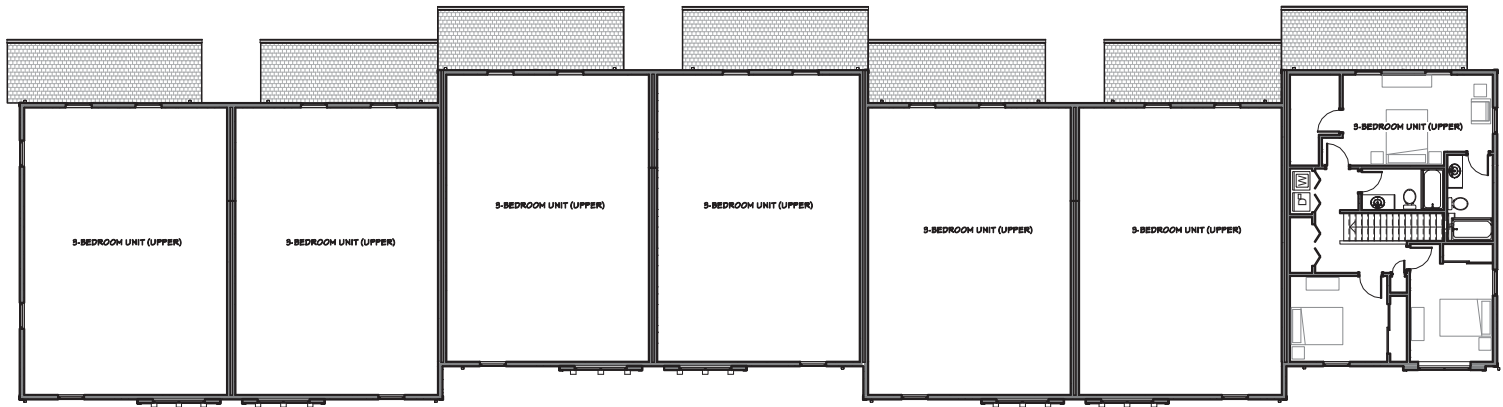
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**BUILDING 4 - SECOND FLOOR PLAN**

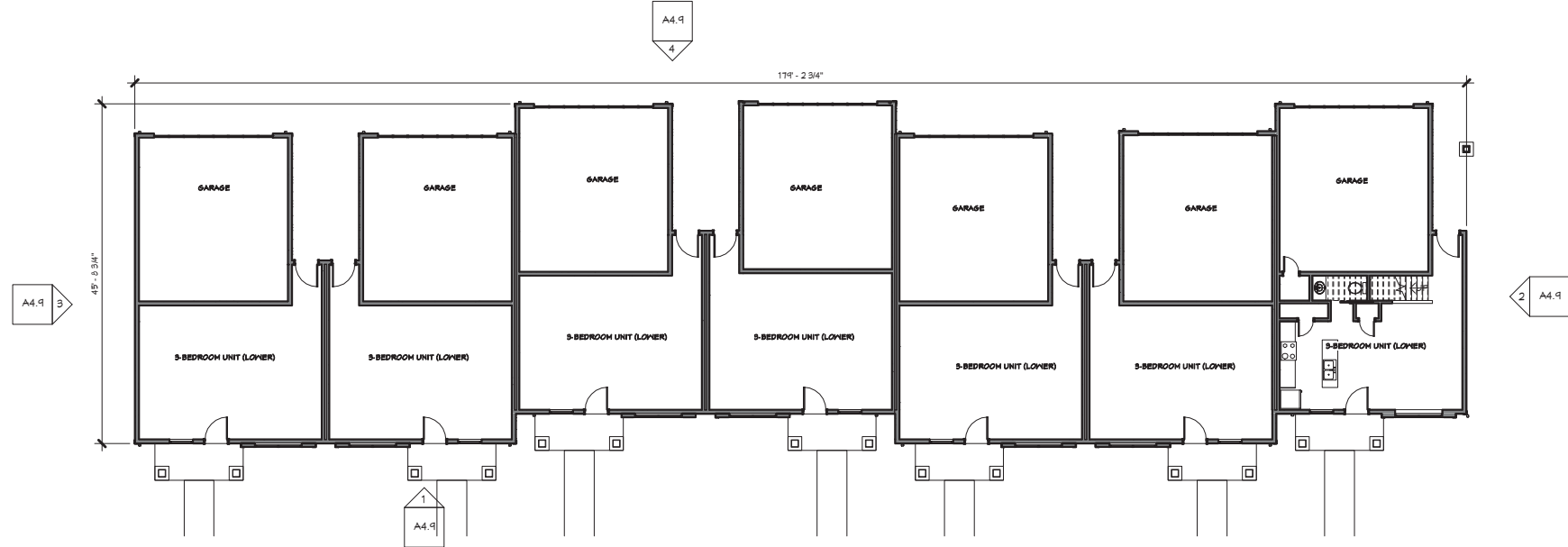
(THIRD FLOOR SIM.)



3 OVERALL ROOF PLAN - BLDG 5  
3/32" = 1'-0"



2 OVERALL SECOND FLOOR PLAN - BLDG 5  
3/32" = 1'-0"



1 OVERALL FIRST FLOOR PLAN - BLDG 5  
3/32" = 1'-0"

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MULTI-FAMILY HOUSING  
**THE MEADOWLANDS**  
MADISON, WI  
KGC HOUSING DEVELOPMENT

|                |            |                  |
|----------------|------------|------------------|
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| No.            | Date       | Description      |
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OVERALL FLOOR  
PLANS - BLDG 5

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#### ELEVATION KEYNOTES

1. HORIZONTAL FIBER CEMENT SIDING - COLOR 1
2. HORIZONTAL FIBER CEMENT SIDING - COLOR 2
3. FIBER CEMENT PANEL
4. FIBER CEMENT TRIM
5. STONE VENEER
6. CAST STONE SILL
7. VINYL WINDOW WITH FIBER CEMENT TRIM
8. FIBERGLASS DOOR
9. BALCONY CANOPY COLUMN WITH STONE VENEER
10. BALCONY CANOPY COLUMN WITH FIBER CEMENT WRAP
11. FIBER CEMENT FASCIA
12. MECHANICAL UNIT
13. DECORATIVE LIGHT FIXTURE
14. COMPOSITE CORSEL
15. BALCONY STRUCTURE WITH FIBER CEMENT TRIM
16. PAINTED METAL GUARDRAIL
17. ALUMINUM STOREFRONT SYSTEM
18. BUILDING SIGNAGE
19. ALUMINUM GUTTER AND DOWNSPOUTS
20. MECHANICAL PENETRATION
21. ASPHALT SHINGLES
22. INSULATED GARAGE DOOR

#### GENERAL ELEVATION NOTES

1. MECHANICAL PENETRATIONS AT 3 AND 4 STORY BUILDINGS TO EXTEND THROUGH ROOF, BELOW PARAPET LEVEL

2 BUILDING 1 - WEST ELEVATION  
A4.1 1/8" = 1'-0"



1 BUILDING 1 - SOUTH ELEVATION  
A4.1 1/8" = 1'-0"

H

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MULTI-FAMILY HOUSING  
**THE MEADOWLANDS**  
MADISON, WI

KGC HOUSING DEVELOPMENT

Project Number 4-1125

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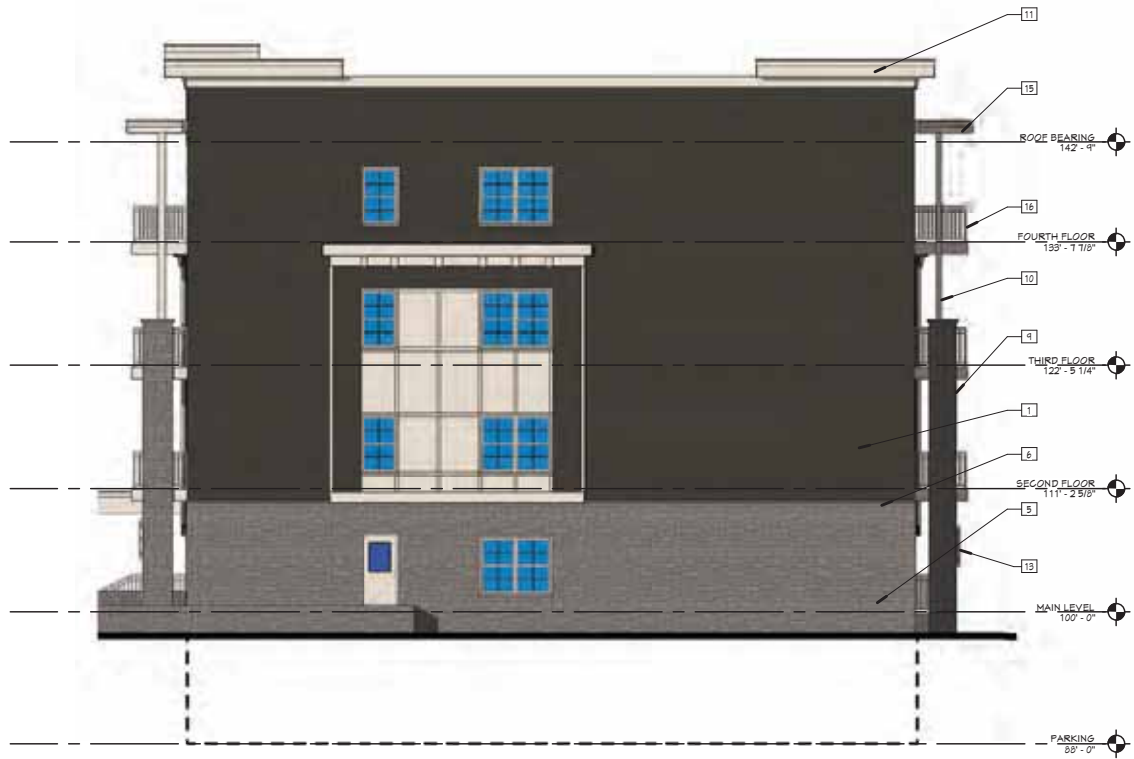
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EXTERIOR  
ELEVATIONS

A4.1



2  
A4.2  
BUILDING 1 - EAST ELEVATION  
1/8" = 1'-0"



1  
A4.2  
BUILDING 1 - NORTH ELEVATION  
1/8" = 1'-0"

#### ELEVATION KEYNOTES

1. HORIZONTAL FIBER CEMENT SIDING - COLOR 1
2. HORIZONTAL FIBER CEMENT SIDING - COLOR 2
3. FIBER CEMENT PANEL
4. FIBER CEMENT TRIM
5. STONE VENEER
6. CAST STONE SILL
7. VINYL WINDOW WITH FIBER CEMENT TRIM
8. FIBERGLASS DOOR
9. BALCONY CANOPY COLUMN WITH STONE VENEER
10. BALCONY CANOPY COLUMN WITH FIBER CEMENT WRAP
11. FIBER CEMENT FASCIA
12. MECHANICAL UNIT
13. DECORATIVE LIGHT FIXTURE
14. COMPOSITE CORBEL
15. BALCONY STRUCTURE WITH FIBER CEMENT TRIM
16. PAINTED METAL GUARDRAIL
17. ALUMINUM STOREFRONT SYSTEM
18. BUILDING SIGNAGE
19. ALUMINUM GUTTER AND DOWNSPOUTS
20. MECHANICAL PENETRATION
21. ASPHALT SHINGLES
22. INSULATED GARAGE DOOR

#### GENERAL ELEVATION NOTES

1. MECHANICAL PENETRATIONS AT 3 AND 4 STORY BUILDINGS TO EXTEND THROUGH ROOF, BELOW PARAPET LEVEL

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KGC HOUSING DEVELOPMENT

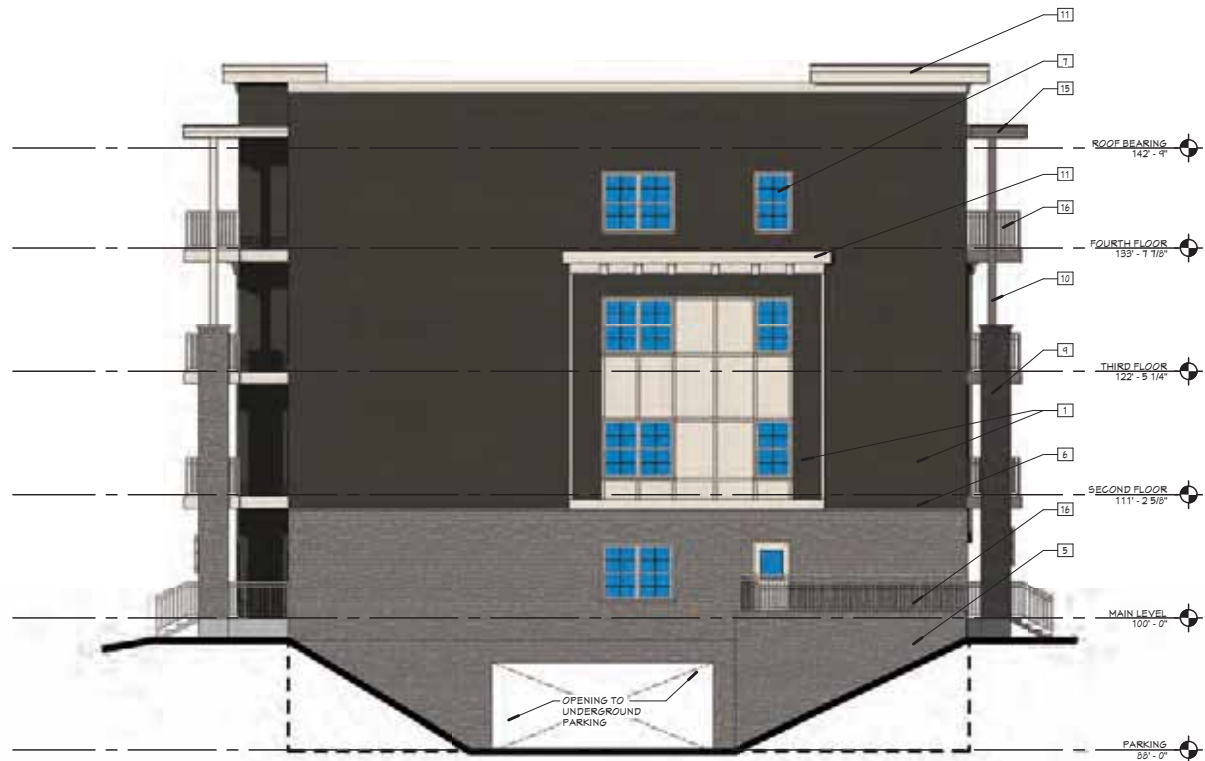
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EXTERIOR  
ELEVATIONS

A4.2



2 BUILDING 1 - EAST ELEVATION  
A4.3 1/8" = 1'-0"



1 BUILDING 1 - NORTH ELEVATION  
A4.3 1/8" = 1'-0"

#### ELEVATION KEYNOTES

1. HORIZONTAL FIBER CEMENT SIDING - COLOR 1
2. HORIZONTAL FIBER CEMENT SIDING - COLOR 2
3. FIBER CEMENT PANEL
4. FIBER CEMENT TRIM
5. STONE VENEER
6. CAST STONE SILL
7. VINYL WINDOW WITH FIBER CEMENT TRIM
8. FIBERGLASS DOOR
9. BALCONY CANOPY COLUMN WITH STONE VENEER
10. BALCONY CANOPY COLUMN WITH FIBER CEMENT WRAP
11. FIBER CEMENT FASCIA
12. MECHANICAL UNIT
13. DECORATIVE LIGHT FIXTURE
14. COMPOSITE CORBEL
15. BALCONY STRUCTURE WITH FIBER CEMENT TRIM
16. PAINTED METAL GUARDRAIL
17. ALUMINUM STOREFRONT SYSTEM
18. BUILDING SIGNAGE
19. ALUMINUM GUTTER AND DOWNSPOUTS
20. MECHANICAL PENETRATION
21. ASPHALT SHINGLES
22. INSULATED GARAGE DOOR

#### GENERAL ELEVATION NOTES

1. MECHANICAL PENETRATIONS AT 3 AND 4 STORY BUILDINGS TO EXTEND THROUGH ROOF, BELOW PARAPET LEVEL

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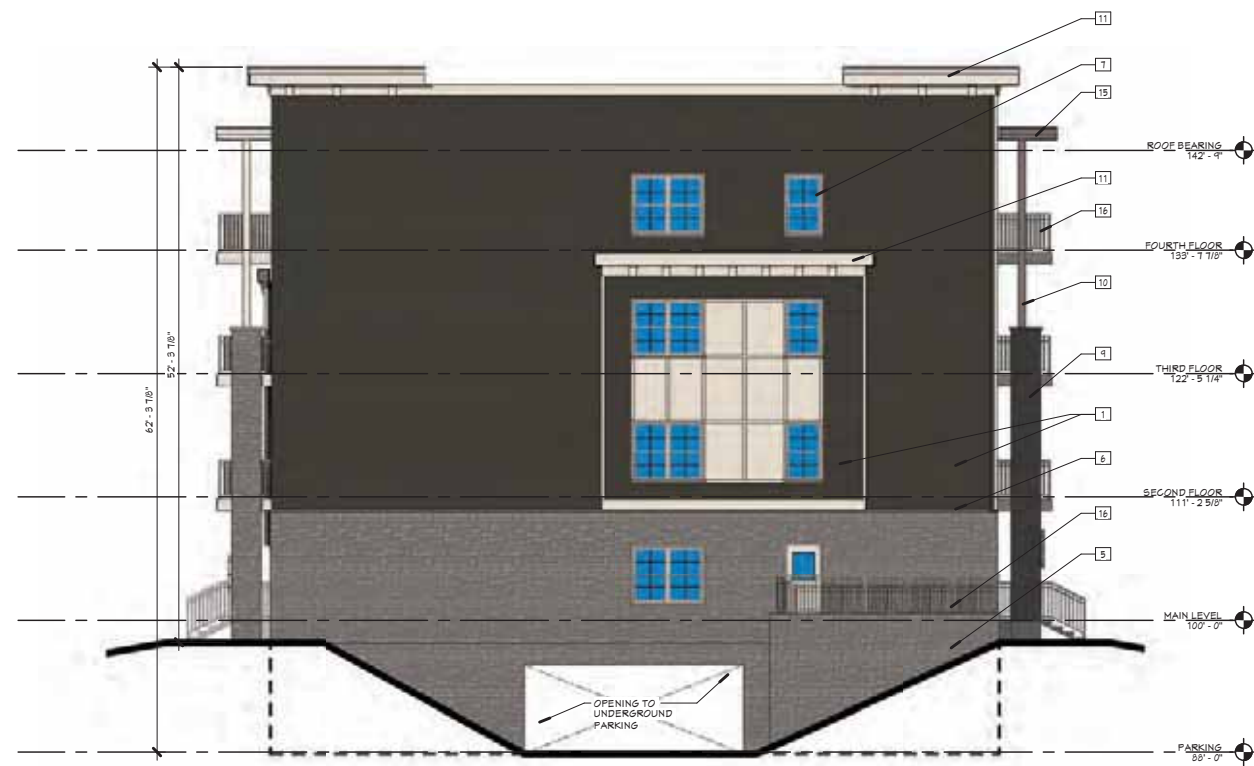
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EXTERIOR  
ELEVATIONS

A4.3

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1 BUILDING 3 - SOUTH ELEVATION  
1/8" = 1'-0"



2 BUILDING 3 - WEST ELEVATION  
1/8" = 1'-0"

## ELEVATION KEYNOTES

1. HORIZONTAL FIBER CEMENT SIDING - COLOR 1
2. HORIZONTAL FIBER CEMENT SIDING - COLOR 2
3. FIBER CEMENT TRIM
4. STONE VENEER
5. CAST STONE SILL
6. VINYL WINDOW WITH FIBER CEMENT TRIM
7. FIBERGLASS DOOR
8. BALCONY CANOPY COLUMN WITH STONE VENEER
9. BALCONY CANOPY COLUMN WITH FIBER CEMENT WRAP
10. FIBER CEMENT FASCIA
11. MECHANICAL UNIT
12. DECORATIVE LIGHT FIXTURE
13. COMPOSITE CORBEL
14. BALCONY STRUCTURE WITH FIBER CEMENT TRIM
15. PAINTED METAL GUARDRAIL
16. ALUMINUM STOREFRONT SYSTEM
17. BUILDING SIGNAGE
18. ALUMINUM GUTTER AND DOWNSPOUTS
19. MECHANICAL PENETRATION
20. ASPHALT SHINGLES
21. INSULATED GARAGE DOOR

## GENERAL ELEVATION NOTES

1. MECHANICAL PENETRATIONS AT 3 AND 4 STORY BUILDINGS TO EXTEND THROUGH ROOF, BELOW PARAPET LEVEL

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**THE MEADOWLANDS**  
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KGC HOUSING DEVELOPMENT

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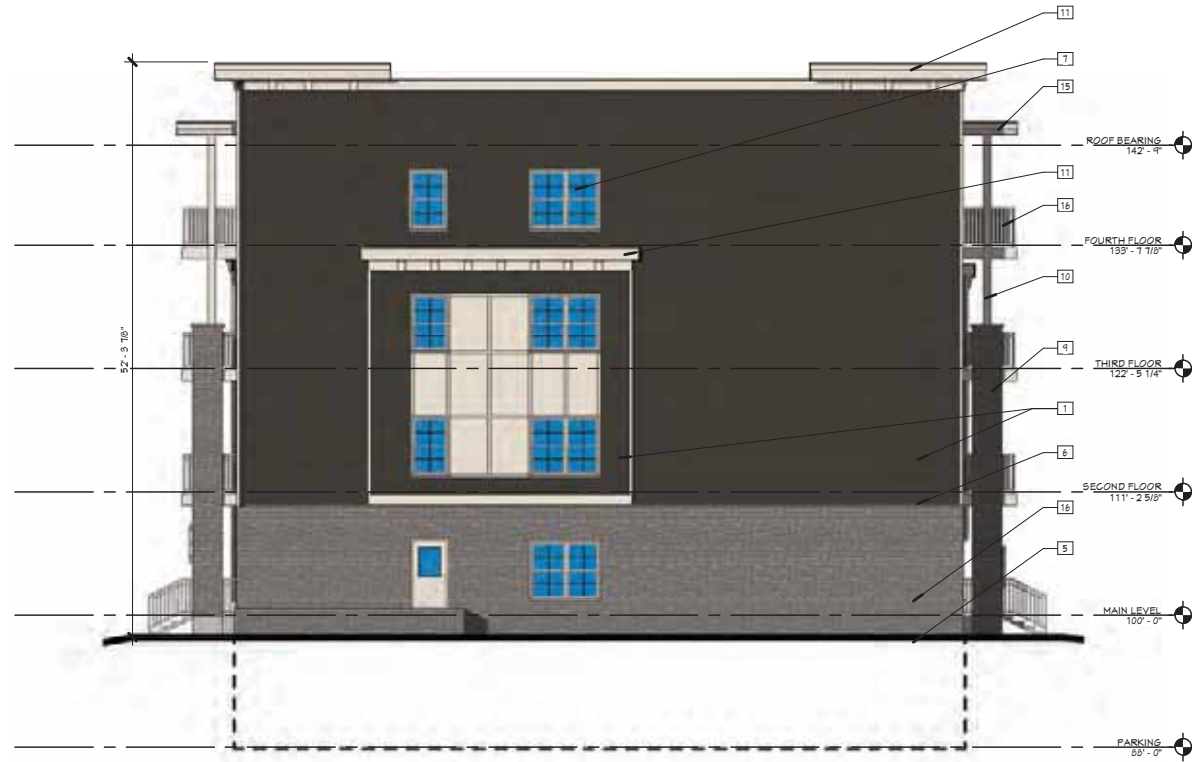
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EXTERIOR  
ELEVATIONS

A4.4



2 BUILDING 3 - NORTH ELEVATION  
A4.5 1/8" = 1'-0"



1 BUILDING 3 - EAST ELEVATION  
A4.5 1/8" = 1'-0"

#### ELEVATION KEYNOTES

1. HORIZONTAL FIBER CEMENT SIDING - COLOR 1
2. HORIZONTAL FIBER CEMENT SIDING - COLOR 2
3. FIBER CEMENT PANEL
4. FIBER CEMENT TRIM
5. STONE VENEER
6. CAST STONE SILL
7. VINYL WINDOW WITH FIBER CEMENT TRIM
8. FIBERGLASS DOOR
9. BALCONY CANOPY COLUMN WITH STONE VENEER
10. BALCONY CANOPY COLUMN WITH FIBER CEMENT WRAP
11. FIBER CEMENT FASCIA
12. MECHANICAL UNIT
13. DECORATIVE LIGHT FIXTURE
14. COMPOSITE CORSEL
15. BALCONY STRUCTURE WITH FIBER CEMENT TRIM
16. PAINTED METAL GUARDRAIL
17. ALUMINUM STOREFRONT SYSTEM
18. BUILDING SIGNAGE
19. ALUMINUM GUTTER AND DOWNSPOUTS
20. MECHANICAL PENETRATION
21. ASPHALT SHINGLES
22. INSULATED GARAGE DOOR

#### GENERAL ELEVATION NOTES

1. MECHANICAL PENETRATIONS AT 3 AND 4 STORY BUILDINGS TO EXTEND THROUGH ROOF, BELOW PARAPET LEVEL

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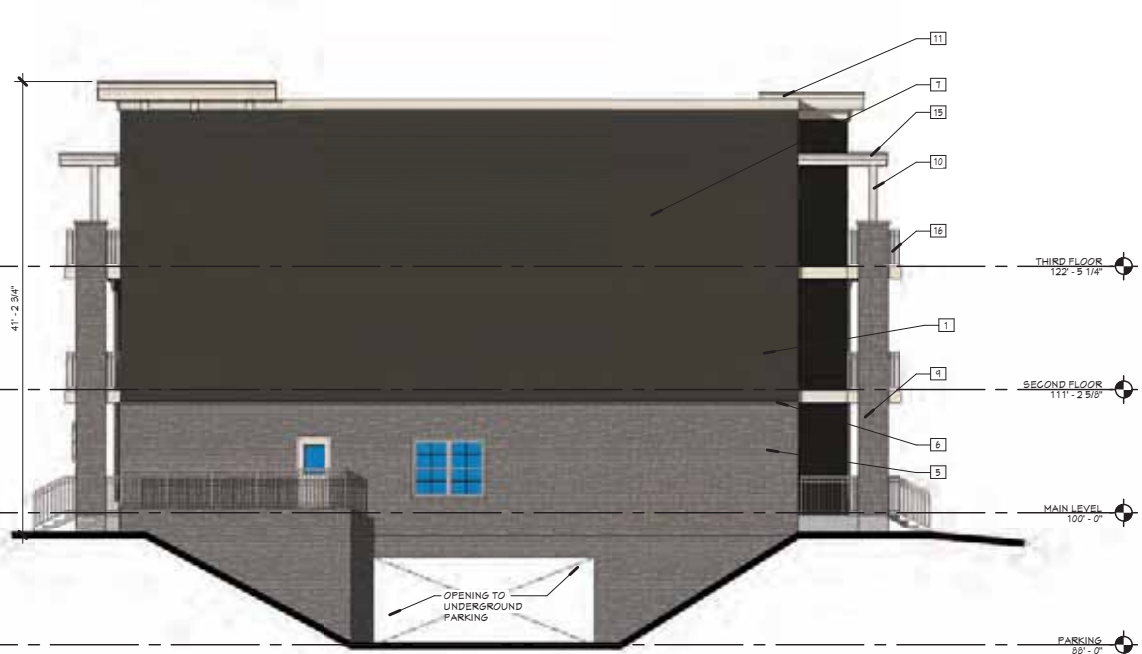
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EXTERIOR  
ELEVATIONS

A4.5



3 BUILDING 4 - NORTH ELEVATION  
A4.6 1/8" = 1'-0"



2 BUILDING 4 - WEST ELEVATION  
A4.6 1/8" = 1'-0"



1 BUILDING 4 - SOUTH ELEVATION  
A4.6 1/8" = 1'-0"

- ELEVATION KEYNOTES**
1. HORIZONTAL FIBER CEMENT SIDING - COLOR 1
  2. HORIZONTAL FIBER CEMENT SIDING - COLOR 2
  3. FIBER CEMENT PANEL
  4. FIBER CEMENT TRIM
  5. STONE VENEER
  6. CAST STONE SILL
  7. VINYL WINDOW WITH FIBER CEMENT TRIM
  8. FIBERGLASS DOOR
  9. BALCONY CANOPY COLUMN WITH STONE VENEER
  10. BALCONY CANOPY COLUMN WITH FIBER CEMENT WRAP
  11. FIBER CEMENT FASCIA
  12. MECHANICAL UNIT
  13. DECORATIVE LIGHT FIXTURE
  14. COMPOSITE CORBEL
  15. BALCONY STRUCTURE WITH FIBER CEMENT TRIM
  16. PAINTED METAL GUARDRAIL
  17. ALUMINUM STOREFRONT SYSTEM
  18. BUILDING SIGNAGE
  19. ALUMINUM GUTTER AND DOWNSPOUTS
  20. MECHANICAL PENETRATION
  21. ASPHALT SHINGLES
  22. INSULATED GARAGE DOOR
- GENERAL ELEVATION NOTES**
1. MECHANICAL PENETRATIONS AT 3 AND 4 STORY BUILDINGS TO EXTEND THROUGH ROOF, BELOW PARAPET LEVEL

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EXTERIOR  
ELEVATIONS

A4.6



2  
A4.7  
BUILDING 4 - NORTHWEST ELEVATION  
1/8" = 1'-0"



1  
A4.7  
BUILDING 4 - SOUTHWEST ELEVATION  
1/8" = 1'-0"

#### ELEVATION KEYNOTES

1. HORIZONTAL FIBER CEMENT SIDING - COLOR 1
2. HORIZONTAL FIBER CEMENT SIDING - COLOR 2
3. FIBER CEMENT TRIM
4. FIBER CEMENT TRIM
5. STONE VENEER
6. CAST STONE SILL
7. VINYL WINDOW WITH FIBER CEMENT TRIM
8. FIBERGLASS DOOR
9. BALCONY CANOPY COLUMN WITH STONE VENEER
10. BALCONY CANOPY COLUMN WITH FIBER CEMENT WRAP
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20. MECHANICAL PENETRATION
21. ASPHALT SHINGLES
22. INSULATED GARAGE DOOR

#### GENERAL ELEVATION NOTES

1. MECHANICAL PENETRATIONS AT 3 AND 4 STORY BUILDINGS TO EXTEND THROUGH ROOF, BELOW PARAPET LEVEL

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EXTERIOR  
ELEVATIONS

A4.7



2  
A4.8  
BUILDING 4 - EAST ELEVATION  
1/8" = 1'-0"



1  
A4.8  
BUILDING 4 - NORTHEAST ELEVATION  
1/8" = 1'-0"

#### ELEVATION KEYNOTES

1. HORIZONTAL FIBER CEMENT SIDING - COLOR 1
2. HORIZONTAL FIBER CEMENT SIDING - COLOR 2
3. FIBER CEMENT PANEL
4. FIBER CEMENT TRIM
5. STONE VENEER
6. CAST STONE SILL
7. VINYL WINDOW WITH FIBER CEMENT TRIM
8. FIBERGLASS DOOR
9. BALCONY CANOPY COLUMN WITH STONE VENEER
10. BALCONY CANOPY COLUMN WITH FIBER CEMENT WRAP
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#### GENERAL ELEVATION NOTES

1. MECHANICAL PENETRATIONS AT 3 AND 4 STORY BUILDINGS TO EXTEND THROUGH ROOF, BELOW PARAPET LEVEL

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EXTERIOR ELEVATIONS

A4.9

ELEVATION KEYNOTES

- HORIZONTAL FIBER CEMENT SIDING - COLOR 1
- HORIZONTAL FIBER CEMENT SIDING - COLOR 2
- FIBER CEMENT PANEL
- FIBER CEMENT TRIM
- STONE VENEER
- CAST STONE SILL
- VINYL WINDOW WITH FIBER CEMENT TRIM
- FIBERGLASS DOOR
- BALCONY CANOPY COLUMN WITH STONE VENEER
- BALCONY CANOPY COLUMN WITH FIBER CEMENT PARAP
- FIBER CEMENT FASCIA
- MECHANICAL UNIT
- DECORATIVE LIGHT FIXTURE
- COMPOSITE CORBEL
- BALCONY STRUCTURE WITH FIBER CEMENT TRIM
- PAINTED METAL GUARDRAIL
- ALUMINUM STOREFRONT SYSTEM
- BUILDING SIGNAGE
- ALUMINUM GUTTER AND DOWNSPOUTS
- MECHANICAL PENETRATION
- ASPHALT SHINGLES
- INSULATED GARAGE DOOR

GENERAL ELEVATION NOTES

- MECHANICAL PENETRATIONS AT 3 AND 4 STORY BUILDINGS TO EXTEND THROUGH ROOF, BELOW PARAPET LEVEL



4 BUILDING 5 - EAST ELEVATION  
A4.9 1/8" = 1'-0"



3 BUILDING 5 - NORTH ELEVATION  
A4.9 1/8" = 1'-0"



2 BUILDING 5 - SOUTH ELEVATION  
A4.9 1/8" = 1'-0"



1 BUILDING 5 - WEST ELEVATION  
A4.9 1/8" = 1'-0"



VIEW DOWN WIND STONE DRIVE



VIEW ALONG MILWAUKEE AVE



VIEW FROM PARKING LOT



VIEW FROM MILWAUKEE AVE



VIEW ALONG WIND STONE



VIEW FROM MILWAUKEE AVE



VIEW FROM CORNER OF MILWAUKEE AND WIND STONE



VIEW ALONG WIND STONE