

THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDATION/PLAN OF TRAFFIC ENGINEERING AND CITY ENGINEERING DEPARTMENT.

**EROSION NOTES:**  
 THE STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. THE TRACKING PAD IS TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACK OF MUD OR DRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS. SEDIMENT BEHIND THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORKDAY.  
 EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GRADING OPERATIONS AND SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS ESTABLISHED. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF A 0.5 INCH RAIN EVENT. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.  
 CUT AND FILL SLOPES SHALL BE NO GREATER THAN 3:1.  
 EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM REQUIREMENTS THAT WILL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECOGNIZING AND CORRECTING ALL EROSION CONTROL PROBLEMS THAT ARE A RESULT OF CONSTRUCTION ACTIVITIES. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.

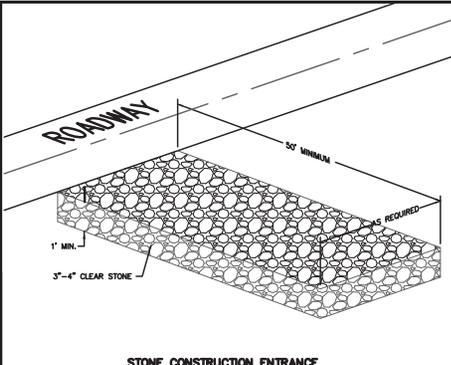
**TIME SCHEDULE:**  
 JULY 1, 2020 - JULY 9, 2020 INSTALL INITIAL EROSION CONTROL DEVICES AND GRADE BIO-RETENTION BASIN.  
 JULY 9, 2020 - NOVEMBER 15, 2020 CONSTRUCT BUILDING AND PARKING LOT AND RESTORE PERVIOUS DISTURBED AREAS.  
 NOVEMBER 15, 2020 - DECEMBER 15, 2020 REMOVE ACCUMULATED SEDIMENT FROM BIORETENTION BASIN, CONSTRUCT BIORETENTION BASIN PER DETAIL ON THE UTILITY PLAN AND RESTORE PERVIOUS DISTURBED AREAS.

**RESTORATION NOTES:**  
 ALL PVIOUSLY DISTURBED AREAS SHALL RECEIVE A MINIMUM OF FOUR (4) INCHES OF TOPSOIL, SEED AND MULCH. ALL PVIOUSLY RESTORED AREAS SHALL RECEIVE FERTILIZER EXCEPT NATIVE PLANTING AREAS. RESTORATION WILL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL. SEED MIXTURE #0 SHALL BE USED ON ALL OTHER DISTURBED AREAS. MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 630 OF D.O.S. SPECIFICATIONS. AN EQUAL AMOUNT OF ANNUAL PREGRASS SHALL BE ADDED TO THE MIX.  
 SEED MIXTURES SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. FERTILIZER SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. MULCH SHALL CONSIST OF HAY OR STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE.  
 FERTILIZER SHALL MEET THE MINIMUM REQUIREMENTS THAT FOLLOW: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 8%; POTASH, NOT LESS THAN 8%.

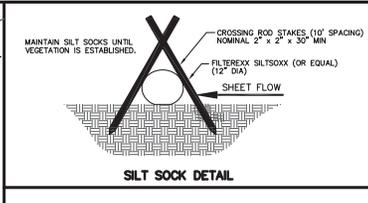
**OWNER:**  
 H&L LLC  
 ATTN: SHANE KIELER  
 5501 TONYAWATHA TRAIL  
 MONONA, WI 53168

**ENGINEER:**  
 QUAM ENGINEERING, LLC  
 ATTN: RYAN QUAM  
 4604 SIGELKOW ROAD, SUITE A  
 MCFARLAND, WI 53558

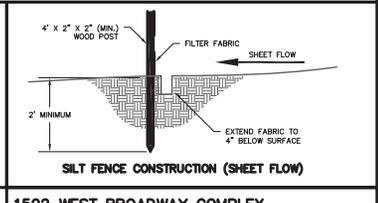
**DNR PRESCRIPTIVE COMPLIANCE:**  
 RESTORATION SHALL OCCUR WITHIN 30 DAYS OF INITIAL DISTURBANCE FOR SLOPES 20% OR GREATER.  
 INSTALL MSDOT CLASS 1 TYPE B EROSION MAT



STONE CONSTRUCTION ENTRANCE



SILT SOCK DETAIL

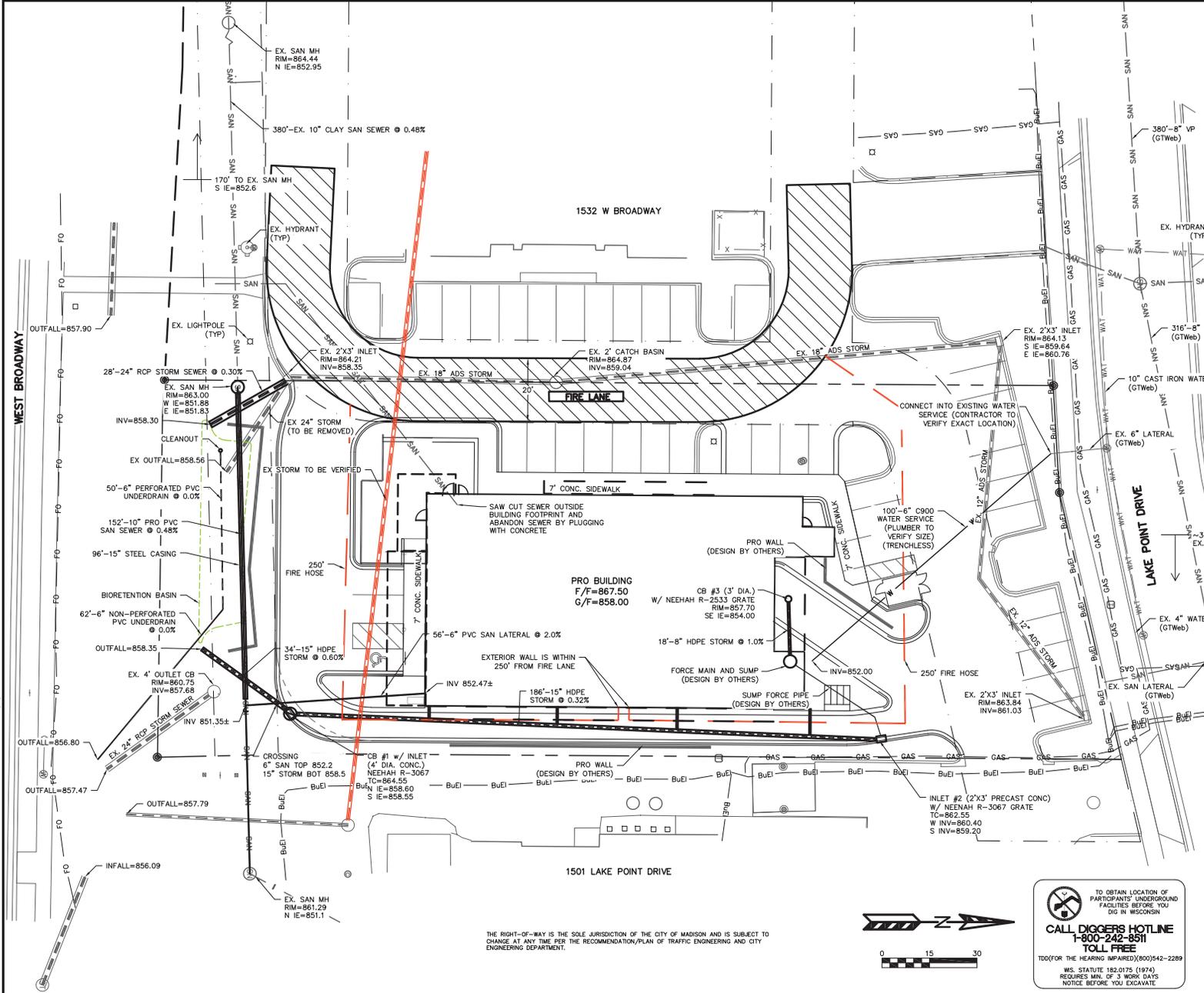


SILT FENCE CONSTRUCTION (SHEET FLOW)

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
**CALL DIGGERS HOTLINE 1-800-242-8511 TOLL FREE**  
 TDD(FOR THE HEARING IMPAIRED)(800)542-2289  
 WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

**1502 WEST BROADWAY COMPLEX**  
 GRADING AND EROSION CONTROL PLAN  
 PAGE: C3  
 DATE: JUNE 5, 2020

**QUAM ENGINEERING, LLC**  
 Residential and Commercial Site Design Consultants  
 www.quamengineering.com  
 4604 Sigelkow Road, Suite A - McFarland, Wisconsin 53558  
 Phone (608) 838-7750; Fax (608) 838-7752



**UTILITY NOTES:**

ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE CITY OF MADISON AND WISCONSIN DEPARTMENT OF COMMERCE STANDARDS.

PLUMBER SHALL VERIFY SANITARY LATERAL AND WATER SERVICE SIZE TO PROPOSED BUILDINGS

THE LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM THE PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.

ALL WATER MAIN SHALL BE BURIED TO A DEPTH OF 6.5 FEET. THE DEPTH IS DEFINED AS THE DISTANCE BETWEEN THE FINISHED GRADE ELEVATION AND THE TOP OF WATER MAIN OR SERVICE.

MAINTAIN AN 8 FOOT MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN PUBLIC SANITARY SEWER, WATER MAIN AND STORM SEWER. PROVIDE 18\"/>

ANY UTILITIES WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

ALL UNDERGROUND EXTERIOR NON-METALLIC SEWERS/MAINS AND WATER SERVICES/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORDANCE WITH 182.0715(2r) OF STATE STATUTES.

THE PROPOSED ELECTRIC, TELEPHONE AND GAS UTILITY LOCATIONS ARE NOT SHOWN. ACTUAL LOCATIONS AND DESIGN SHALL BE COMPLETED BY OTHERS.

ANY DAMAGE TO LAKE POINT DRIVE OR WEST BROADWAY PAVEMENT WILL REQUIRE PATCHING IN ACCORDANCE WITH THE CITY ENGINEERING STREET PATCHING CRITERIA.

THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS, SIZES, MATERIALS, AND ELEVATIONS PRIOR TO CONSTRUCTION.

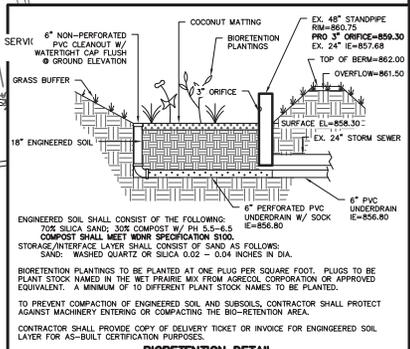
SANITARY SEWER SHALL BE PVC ASTM D3034, SDR 35 UNLESS INDICATED OTHERWISE.

WATER MAIN SHALL BE CLASS 52 DUCTILE IRON PIPE, PER CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

ALL STORM SEWER SHALL BE HDPE SMOOTH WALL INTERIOR CORRUGATED PIPE AS MANUFACTURED BY ADS OR APPROVED EQUAL. PIPE SHALL HAVE WATERTIGHT JOINTS AND SHALL MEET THE REQUIREMENTS OF AASHTO M-294, TYPE S.

THE CONTRACTOR SHALL OBTAIN A CONNECTION PERMIT AND EXCAVATION PERMIT PRIOR TO COMMENCING THE STORM SEWER CONSTRUCTION.

CATCH BASINS AND INLETS SHALL BE CONCRETE AND CONSTRUCTED IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS OR APPROVED EQUAL.



**BIORETENTION DETAIL**

ENGINEERED SOIL SHALL CONSIST OF THE FOLLOWING:  
 70% SILICA SAND; 20% COMPOST W/ PH 5.5-6.5  
 COMPOST SHALL MEET MINOR SPECIFICATIONS FOR BIORETENTION AREA.  
 STORAGE/INTERFACE LAYER SHALL CONSIST OF SAND AS FOLLOWS:  
 SAND: WASHED QUARTZ OR SILICA 0.02 - 0.04 INCHES IN DIA.  
 BIORETENTION PLANTINGS TO BE PLANTED AT ONE PLANT PER SQUARE FOOT. PLUGS TO BE PLANT STOCK NAMED IN THE WET PRAIRIE MIX FROM AGRICOL CORPORATION OR APPROVED EQUIVALENT. A MINIMUM OF 10 DIFFERENT PLANT STOCK NAMES TO BE PLANTED.  
 TO PREVENT COMPACTION OF ENGINEERED SOIL AND SUBSOILS, CONTRACTOR SHALL PROTECT AGAINST MACHINERY ENTERING OR COMPACTING THE BIORETENTION AREA.  
 CONTRACTOR SHALL PROVIDE COPY OF DELIVERY TICKET OR INVOICE FOR ENGINEERED SOIL LAYER FOR AS-BUILT CERTIFICATION PURPOSES.

**1502 WEST BROADWAY COMPLEX UTILITY & FIRE LANE PLAN**

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 DATED: JUNE 5, 2020

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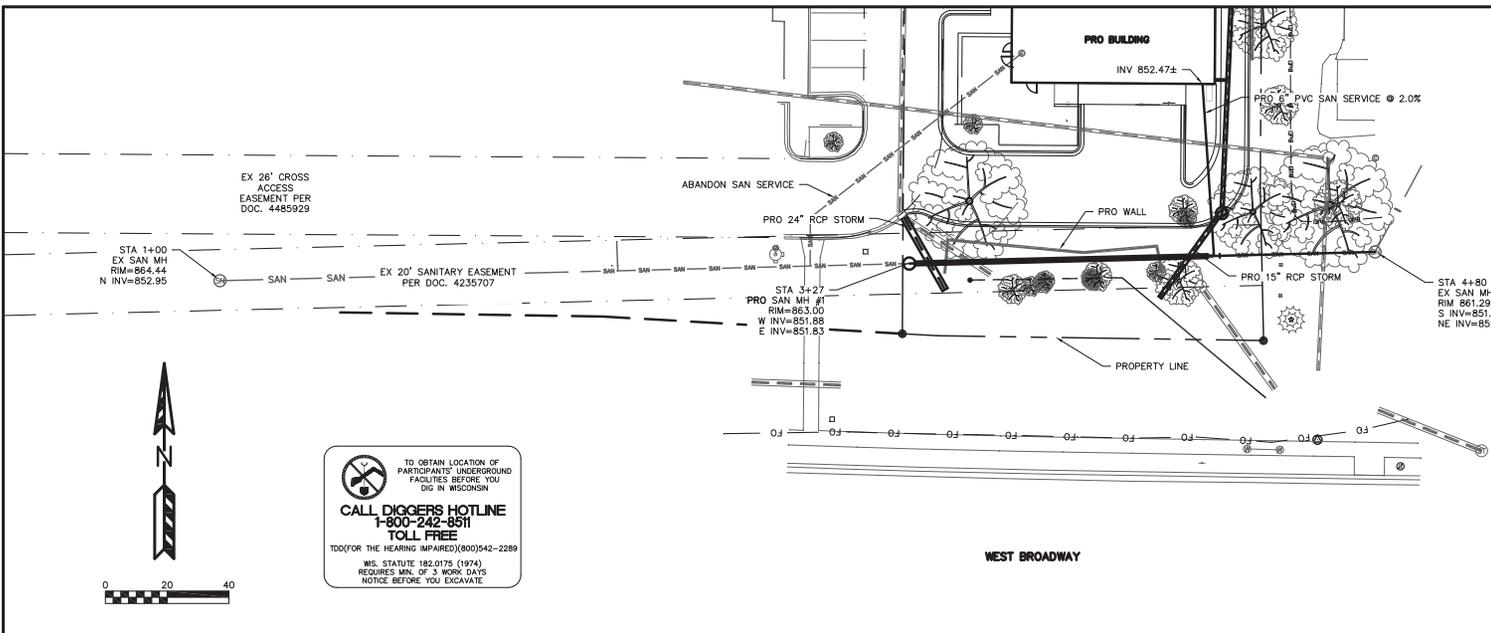
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