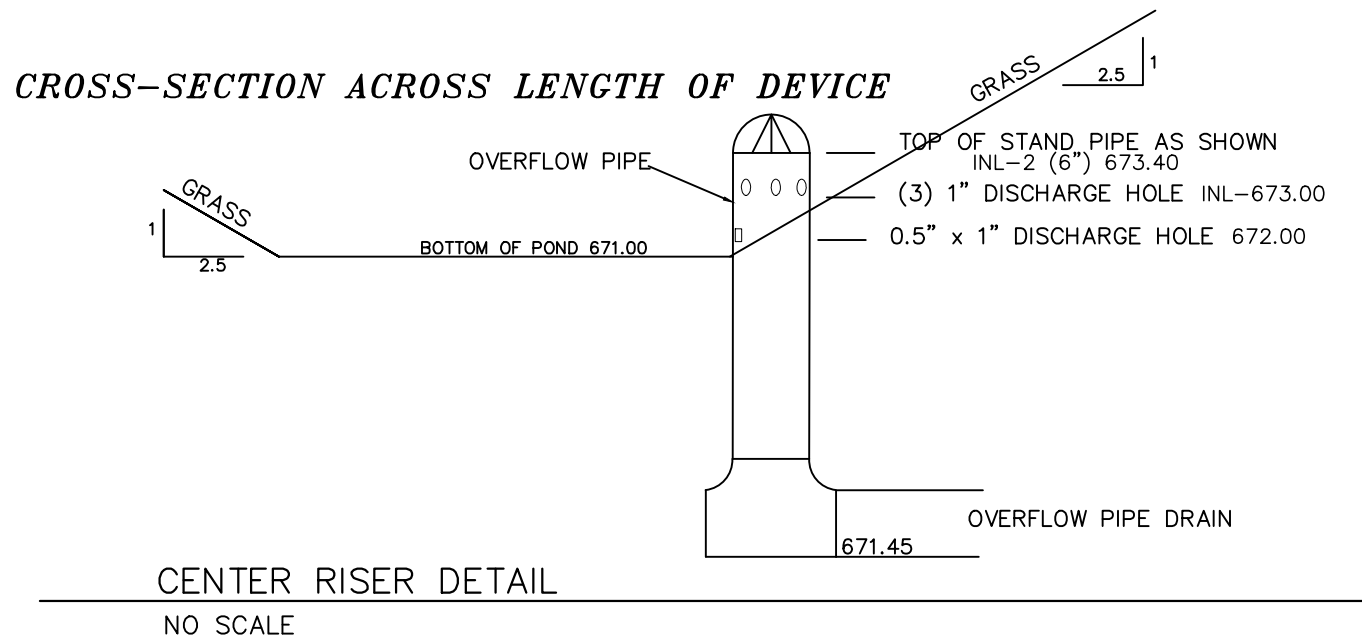


CROSS-SECTION ACROSS LENGTH OF DEVICE



UTILITY NOTES

- There may be underground utility installations within the project area that are not shown.
 - It shall be the contractors responsibility to arrange for any necessary inspections by local government that may be required.
 - Contours shown are for finished surfaces, any adjustment to subgrade is the contractor's responsibility.
 - All disturbed areas shall have a minimum of 4" topsoil.
 - All finished grading shall provide for a smooth transition to ungraded areas.
 - A temporary berm shall be constructed to divert storm runoff from entering disturbed areas from off-site.
- EXCAVATION**
- The excavated area shall be stripped of topsoil (4"-6") and stored separately and used to establish finished grades.
- TOPSOIL REPLACEMENT, SEEDING, FERTILIZING & MULCHING**
- Topsoil shall be placed on the disturbed areas of the site. Immediately after shaping the topsoil, add lime to proper pH or 3 tons per acre, fertilizer at 400 lbs per acre of 20-10-10 and work 3" deep using ordinary tillage methods. Seed with Annual Ryegrass (30 lbs./acre), Kentucky Bluegrass (30 lbs./acre), and Perennial Ryegrass (30 lbs./acre). The Grading Contractor is responsible for a guaranteed catch and shall re-seed as necessary, or as approved by owner.
- 1" of topsoil shall be placed in bottom of pond or in infiltration areas.
 - Parking lot shall consist of 4" Bituminous Pavement and 8" compacted aggregate base over geotextile fabric. See Geotechnical Evaluation Report for more details.
 - 6" Perforated pipe shall have a filter sock meeting Wisconsin Standards and Specifications for Highway and Structure Construction, Section 612.2.8(1-3), 2003 edition, or equivalent.
 - BUILDING AND WASTE MATERIAL SHALL BE DISPOSED OF IN A LAWFUL MANNER.

GRADING NOTES

- There may be underground utility installations within the project area that are not shown.
- It shall be the contractors responsibility to arrange for any necessary inspections by local government that may be required.
- Contours shown are for finished surfaces, any adjustment to subgrade is the contractor's responsibility.
- All disturbed areas shall have a minimum of 4" topsoil.
- All finished grading shall provide for a smooth transition to ungraded areas.
- A temporary berm shall be constructed to divert storm runoff from entering disturbed areas from off-site.

EXCAVATION

The excavated area shall be stripped of topsoil (4"-6") and stored separately and used to establish finished grades.

TOPSOIL REPLACEMENT, SEEDING, FERTILIZING & MULCHING

Topsoil shall be placed on the disturbed areas of the site. Immediately after shaping the topsoil, add lime to proper pH or 3 tons per acre, fertilizer at 400 lbs per acre of 20-10-10 and work 3" deep using ordinary tillage methods. Seed with Annual Ryegrass (30 lbs./acre), Kentucky Bluegrass (30 lbs./acre), and Perennial Ryegrass (30 lbs./acre). The Grading Contractor is responsible for a guaranteed catch and shall re-seed as necessary, or as approved by owner.

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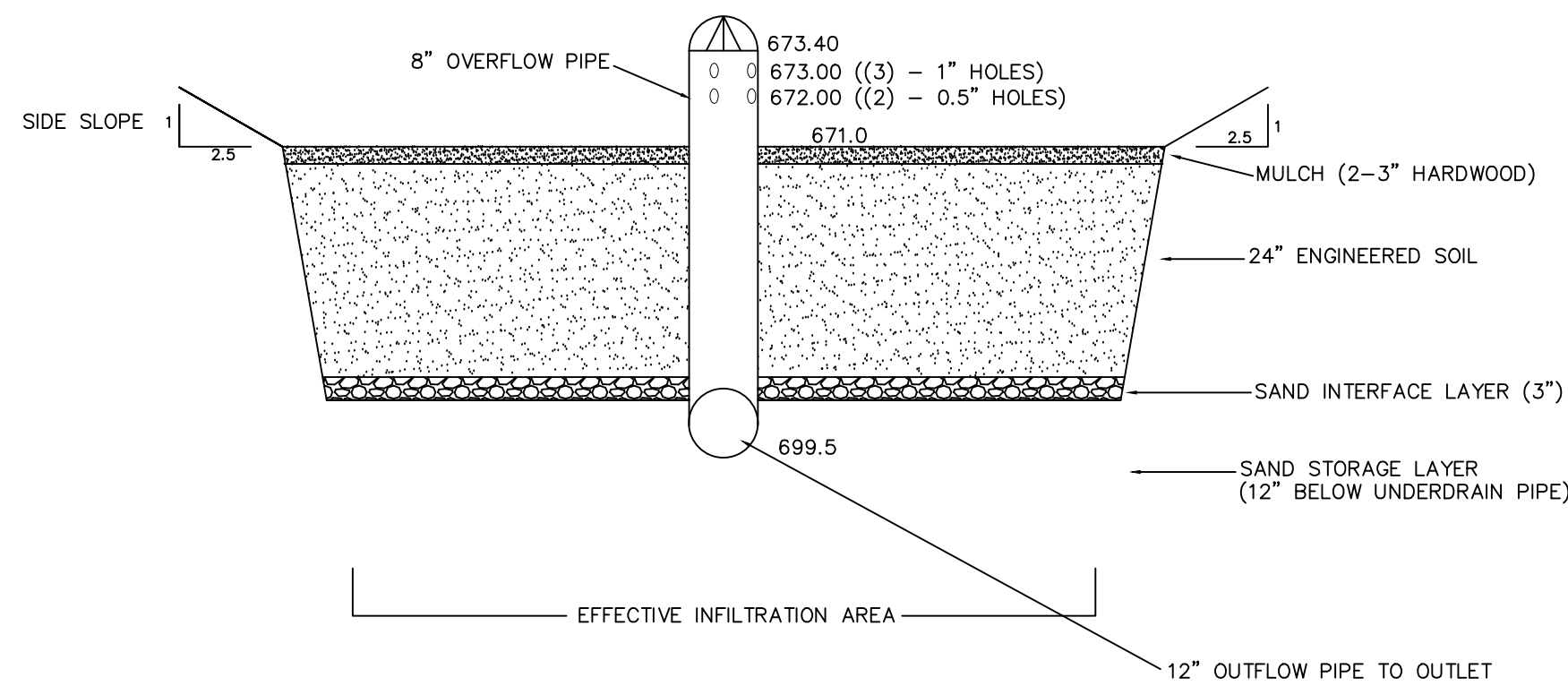
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6" Perforated pipe shall have a filter sock meeting Wisconsin Standards and Specifications for Highway and Structure Construction, Section 612.2.8(1-3), 2003 edition, or equivalent.

BUILDING AND WASTE MATERIAL SHALL BE DISPOSED OF IN A LAWFUL MANNER.

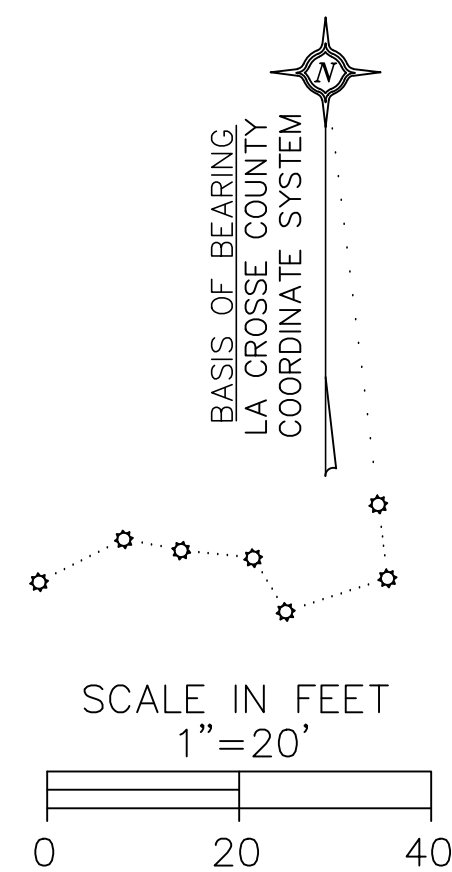
- Engineered soil:
- Engineered soil shall be a homogeneous composition that is 75% sand and 25% compost meeting the following material requirements.
- Sand: Fine aggregate concrete sand meeting ASTM C33.
- Compost: Aerobically decayed organic waste meeting the following criteria:
- Particle Size-90% of the compost shall pass through a 0.75-inch screen.
- Physical Contaminants- Less than 1% combined glass, metal and plastic.
- Organic Matter/Ash Content - At least 40% organic matter, less than 60% ash content.
- Carbon to Nitrogen Ratio - 10:20:1 C:N ratio
- pH - Between 6 and 8.
- Soluble Salts - Electrical conductivity below 10 dS/m (mmhos cm⁻¹)
- Moisture content - Between 35% and 50% by weight
- Maturity - The compost shall be resistant to further decomposition and free of compounds, such as ammonia and organic acids, in concentrations toxic to plant growth.
- Seeds & Pathogens and noxious seeds shall be minimized.

NORTHEAST BIORETENTION DEVICE
CROSS-SECTION ACROSS WIDTH OF DEVICE



GENERAL NOTES - EROSION CONTROL

- 1.0 STANDARDS:
- ALL WORK SHALL MEET THE STANDARDS OUTLINED IN WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) CONSTRUCTION SITE EROSION AND SEDIMENT TECHNICAL STANDARDS AND THE CITY OF ONALASKA SOIL EROSION CONTROL ORDINANCE FOR BOTH PERFORMANCES AND IMPLEMENTATION.
 - ADDITIONAL EROSION CONTROL FACILITIES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS.
 - SEDIMENT CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING IS IN PLACE. SEDIMENT CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. SEDIMENT CONTROL STRUCTURES IN PAVED AREAS SHALL REMAIN IN PLACE UNTIL PAVING IS COMPLETE.
 - SEDIMENT DEPOSITED IN ROAD DITCHES ADJACENT TO THIS SITE AS A RESULT OF THIS WORK SHALL BE REMOVED AS NECESSARY TO MAINTAIN EXISTING GRADES AND ELEVATIONS. VEGETATION SHALL BE ESTABLISHED WHEN SEDIMENT REMOVAL DESTROYS THE EXISTING VEGETATION. THE ESTABLISHMENT OF VEGETATION SHALL BE IN THE SAME MANNER AS SPECIFIED FOR SEEDING ELSEWHERE ON THIS PLAN.
 - SILT FENCE SHALL BE PLACED DOWN SLOPE OF ALL SOIL STOCK PILES DURING CONSTRUCTION IF LEFT MORE THAN SEVEN DAYS. STOCK PILES SHALL BE SEEDED AND MULCHED IF LEFT FOR MORE THAN 14 DAYS. SILT FENCE SHALL BE INSTALLED TO CONFORM WITH WDNR TECHNICAL STANDARD 1056.
 - STORM DRAIN INLET PROTECTION SHALL BE PROVIDED AROUND INLETS. STORM DRAIN INLET PROTECTION SHALL BE INSTALLED AND CONFORM WITH WDNR TECHNICAL STANDARD 1060. TYPE "A" PROTECTION SHALL BE PROVIDED UNTIL CRUSHED AGGREGATE IS PLACED. TYPE "B" OR "C" SHALL BE UTILIZED ONCE AGGREGATE IS PLACED UNTIL FINAL PAVEMENT AND ESTABLISHMENT OF VEGETATION.
- 2.0 EXECUTION:
- ALL DISTURBED AREAS SHALL TOPSOIL APPLIED, AND BE SODDED, MULCHED, AND FERTILIZED WITHIN 7 DAYS OF FINAL DISTURBANCE.
 - SEED SHALL BE PLANTED IN A MANNER THAT ALLOWS THE SEED TO BE WORKED INTO THE SOIL AND COME IN FIRM CONTACT WITH THE SOIL. SEEDING AND MULCHING SHALL BE ACCOMPLISHED USING THE FOLLOWING MATERIALS AND METHODS:
 - 4" OF TOPSOIL SHALL BE PLACED ON ALL AREAS WITHIN THE PROJECT LIMITS EXCEPT WHERE ANOTHER SURFACE TREATMENT IS SPECIFIED.
 - EROSION MAT SHALL BE USED IN PLACE OF MULCH WHERE SPECIFIED. EROSION MAT SHALL BE INSTALLED TO CONFORM WITH WDNR TECHNICAL STANDARD 1052.
 - SEED MIX SHALL BE "LC" "GRASSY" AND APPLIED AT A RATE OF 120 lbs/ACRE.
 - MULCHING WITH STRAW SHALL CONSIST OF EVENLY SPREADING (3) 40 lb. BALES OF CLEAN WHEAT OR OAT STRAW PER 1000 S.F. OF DISTURBED AREA COVERED.
 - A TEMPORARY BERM OR CHANNEL SHALL BE CONSTRUCTED ACROSS THE SLOPE TO COLLECT AND DIVERT RUNOFF FROM ENTERING OR EXITING DISTURBED AREAS. CONSTRUCTION SITE DIVERSION SHALL CONFORM WITH WDNR TECHNICAL STANDARD 1066.
 - A STONE TRACKING PAD SHALL BE PROVIDED AT EACH CONSTRUCTION ACCESS POINT. STONE TRACKING PAD SHALL CONFORM WITH WDNR TECHNICAL STANDARD 1057.
- 3.0 MAINTENANCE:
- MAINTENANCE OF ALL INSTALLED EROSION AND SEDIMENT CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE OWNER. HOWEVER, THE INSTALLER SHALL PERFORM REQUIRED MAINTENANCE AT THE DIRECTION OF THE OWNER.
 - INSPECTING ALL EROSION AND SEDIMENT CONTROL DEVICES WEEKLY AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR GREATER.
 - FINISHED AREAS THAT HAVE BEEN DAMAGED OR ERODED SHALL BE RESTORED WITHIN SEVEN DAYS OF THE DAMAGE.
 - UNFINISHED AREAS THAT HAVE BEEN DAMAGED OR ERODED SHALL BE RESTORED WITHIN SEVEN DAYS OF THE DAMAGE.
 - STONE TRACKING CONTROL APRON SHALL BE REMOVED AND REPLACED WHEN VOIDS BECOME FILLED WITH SEDIMENT OR IF SURFACE OPENINGS BECOME PLUGGED SO THAT THE APRON DOES NOT FUNCTION.
 - SILT FENCES SHALL BE MAINTAINED IN A FUNCTIONING MANNER. FENCES SHALL NOT BE ALLOWED TO SAG, FALL DOWN, OR BECOME FILLED WITH SILT ON THE BACK SIDE. IF SILT BUILDS UP BEING A SILT FENCE IT SHALL BE REMOVED IMMEDIATELY, UNDER NO CIRCUMSTANCE SHALL SILT DEPOSITS BE ALLOWED TO REACH MORE THAN HALF THE HEIGHT OF THE FENCE. SILT FENCE SHALL BE INSTALLED TO CONFORM WITH WDNR TECHNICAL STANDARD 1056.
- 4.0 REMOVING CONTROL MEASURES:
- SEDIMENT CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING IS IN PLACE. SEDIMENT CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. CONTRACTOR SHALL REMOVE CONTROL MEASURES WHEN THE SITE HAS ESTABLISHED A VEGETATION COVER OR WHEN DIRECTED TO DO SO BY THE OWNER.

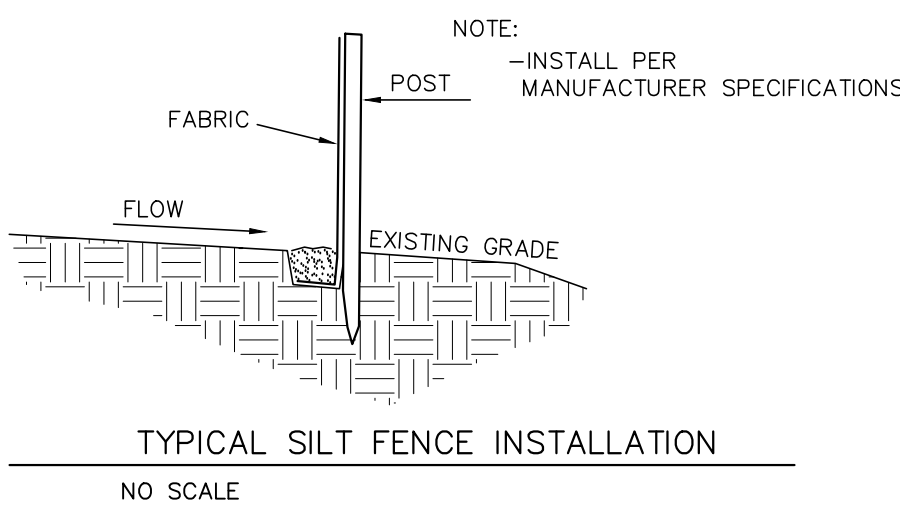


LEGEND:

- 2' DEPTH, ENGINEERED SOIL
- PROPOSED GRADE
- SILT FENCE
- EXISTING BURIED TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- VEHICLE TRACKING PAD
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- SAW CUT, REMOVE AND REPLACE EXISTING ASPHALT, CURB AND GUTTER AS NECESSARY
- SILT SOCK, OR EQUIVALENT BIO-LOG OR INLET PROTECTION
- PROPOSED SANITARY CLEAN OUT
- LIGHT POLE
- PROPOSED 6" WATER VALVE
- 6"-9" RIP RAP OVER GEOTEXTILE FABRIC OR SCOUR STOP

LA CROSSE STREET

11th STREET NORTH



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Brett Sawyer
CITY OF LA CROSSE
GRADING/EROSION CONTROL PLAN

rev. 2/27/17
DATE: 11/17/16

FILE: Sawyer

DRAWN BY: FJH

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