



LAND USE APPLICATION

CITY OF MADISON

215 Martin Luther King Jr. Blvd; Room LL-100
PO Box 2985; Madison, Wisconsin 53701-2985
Phone: 608.266.4635 | Facsimile: 608.267.8739

- All Land Use Applications should be filed with the Zoning Administrator at the above address.
- The following information is required for all applications for Plan Commission review except subdivisions or land divisions, which should be filed using the Subdivision Application.
- This form may also be completed online at:
www.cityofmadison.com/developmentcenter/landdevelopment

| FOR OFFICE USE ONLY: | |
|--|--|
| Amt. Paid _____ | Receipt No. _____ |
| Date Received _____ | |
| Received By _____ | |
| Parcel No. _____ | |
| Aldermanic District _____ | |
| Zoning District _____ | |
| Special Requirements _____ | |
| Review Required By: | |
| <input type="checkbox"/> Urban Design Commission | <input type="checkbox"/> Plan Commission |
| <input type="checkbox"/> Common Council | <input type="checkbox"/> Other: _____ |

Form Effective: February 21, 2013

1. **Project Address:** 1215 Allen Boulevard, Madison WI 53705
Project Title (if any): Madison Metropolitan Sewerage District - Pump Station 15

2. This is an application for (Check all that apply to your Land Use Application):

- Zoning Map Amendment from _____ to _____
- Major Amendment to Approved PD-GDP Zoning Major Amendment to Approved PD-SIP Zoning
- Review of Alteration to Planned Development (By Plan Commission)
- Conditional Use, or Major Alteration to an Approved Conditional Use
- Demolition Permit
- Other Requests: Conditional use within CN - Conservancy Zoning - Public Building

3. Applicant, Agent & Property Owner Information:

Applicant Name: Erik Rehr Company: Madison Metropolitan Sewerage District
Street Address: 1610 Moorland Road City/State: Madison, WI Zip: 53713
Telephone: (608) 222-1201 Fax: () Email: erikr@madsewer.org

Project Contact Person: Doug Hursh Company: Potter Lawson Inc.
Street Address: 749 University Row, Suite 300 City/State: Madison, WI Zip: 53705
Telephone: (608) 274-2741 Fax: () Email: dough@potterlawson.com

Property Owner (if not applicant): _____
Street Address: _____ **City/State:** _____ **Zip:** _____

4. Project Information:

Provide a brief description of the project and all proposed uses of the site: _____
Above grade addition to house equipment for existing sewer pump station. Also, new public restrooms for the park.

Development Schedule: Commencement _____ Completion _____

5. Required Submittal Information

All Land Use applications are required to include the following:

Project Plans including:*

- Site Plans (fully dimensioned plans depicting project details including all lot lines and property setbacks to buildings; demolished/proposed/altered buildings; parking stalls, driveways, sidewalks, location of existing/proposed signage; HVAC/Utility location and screening details; useable open space; and other physical improvements on a property)
- Grading and Utility Plans (existing and proposed)
- Landscape Plan (including planting schedule depicting species name and planting size)
- Building Elevation Drawings (fully dimensioned drawings for all building sides, labeling primary exterior materials)
- Floor Plans (fully dimensioned plans including interior wall and room location)

Provide collated project plan sets as follows:

- **Seven (7) copies** of a full-sized plan set drawn to a scale of 1 inch = 20 feet (folded or rolled and stapled)
- **Twenty Five (25) copies** of the plan set reduced to fit onto 11 X 17-inch paper (folded and stapled)
- **One (1) copy** of the plan set reduced to fit onto 8 ½ X 11-inch paper

* For projects requiring review by the **Urban Design Commission**, provide **Fourteen (14) additional 11x17 copies** of the plan set. In addition to the above information, all plan sets should also include: 1) Colored elevation drawings with shadow lines and a list of exterior building materials/colors; 2) Existing/proposed lighting with photometric plan & fixture cutsheet; and 3) Contextual site plan information including photographs and layout of adjacent buildings and structures. The applicant shall bring samples of exterior building materials and color scheme to the Urban Design Commission meeting.

Letter of Intent: Provide one (1) Copy per Plan Set describing this application in detail including, but not limited to:

- | | | |
|---|---|--|
| • Project Team | • Building Square Footage | • Value of Land |
| • Existing Conditions | • Number of Dwelling Units | • Estimated Project Cost |
| • Project Schedule | • Auto and Bike Parking Stalls | • Number of Construction & Full-Time Equivalent Jobs Created |
| • Proposed Uses (and ft ² of each) | • Lot Coverage & Usable Open Space Calculations | • Public Subsidy Requested |
| • Hours of Operation | | |

Filing Fee: Refer to the Land Use Application Instructions & Fee Schedule. Make checks payable to: *City Treasurer*.

Electronic Submittal: All applicants are required to submit copies of all items submitted in hard copy with their application as Adobe Acrobat PDF files on a non-returnable CD to be included with their application materials, or by e-mail to pcapplications@cityofmadison.com.

Additional Information may be required, depending on application. Refer to the Supplemental Submittal Requirements.

6. Applicant Declarations

Pre-application Notification: The Zoning Code requires that the applicant notify the district alder and any nearby neighborhood and business associations in writing no later than **30 days prior to FILING this request**. List the alderperson, neighborhood association(s), and business association(s) AND the dates you sent the notices:
Alder Mark Clear: notified in June. Open neighborhood meeting July 14, 2015.

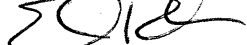
→ If a waiver has been granted to this requirement, please attach any correspondence to this effect to this form.

Pre-application Meeting with Staff: Prior to preparation of this application, the applicant is required to discuss the proposed development and review process with Zoning and Planning Division staff; note staff persons and date.

Planning Staff: Tim Parks / Al Martin Date: March 20, 2015 Zoning Staff: Matt Tucker Date: December 8, 2015

The applicant attests that this form is accurately completed and all required materials are submitted:

Name of Applicant Erik Rehr Relationship to Property: MMSD Engineer

Authorizing Signature of Property Owner  Date 12-16-15



Letter of Intent-City of Madison Planning Commission

**Pumping Station 15
2115 Allen Boulevard**

Madison Metropolitan Sewerage District
December 18, 2015

Project Team

The project design team includes Baxter & Woodman (Lead), Potter Lawson, Inc. (Architect), Ken Saiki Design (Landscape Architecture), Sustainable Engineer Group (Solar Panel Design), Karen Kabbes (ISI Envision Coordinator), CGC, Inc. (Geotechnical) and MMSD District staff. Key personnel for each team are shown in Table 1.

TABLE 1

Project Design Team

| Firm | Person | Role |
|--|------------------|--------------------------|
| Baxter & Woodman, Inc. (Lead) | Jim Kleinschmidt | Overall Project Manager |
| | Amanda Heller | Project Engineer |
| | Adam Stec | Structural Engineer |
| | Lee Rita Rigos | Controls |
| | Elizabeth Quimby | Electrical Engineer |
| Potter Lawson, Inc (Architect) | Doug Hursh | Project Manager |
| | Andy Laufenberg | Project Architect |
| Ken Saiki Design(Landscape Architect) | Nik Swartz | Landscape Architect |
| Karen Kabbes Engineering (ISI Envision Coordinator) | Karen Kabbes | ISI Envision |
| CGC, Inc (Geotechnical) | Bill Wuellner | Geotechnical Engineering |
| Sustainable Engineering Group | Jon Evans | Solar Panel Design |
| | Andy DeRocher | Solar Panel Design |

| Firm | Person | Role |
|---|-----------------|--|
| Madison Metropolitan Sewerage District | Erik Rehr | Project Manager |
| | Michael Mucha | Chief Engineer |
| | Bruce Borelli | Director of Engineering |
| | Claudia Haack | Director of Sustainable Asset Management |
| | Dave Lundey | Electrical Construction Supervisor |
| | John Bembinster | Electrical Engineer |

Existing Conditions and Project Description

The pumping station is located within an easement in the northwest corner of Marshall Park on the far west site boundary between Madison and Middleton. The current station is mostly underground and extends about 24" above the grade. There is also a large external transformer and switch gear on the site for the station.

The original pumping station was built in 1974 and serves Madison, Middleton, and the town of Westport. The station operates on a continuous basis every day of the year. The proposed project will create a pumping station superstructure to house electrical and HVAC equipment. A building addition will also be constructed to the north of the existing pumping station. The new structure will house new electrical and mechanical equipment needed to upgrade and renovate the existing pump station. Restrooms are also included in the project. The restrooms will be owned and maintained by the City of Madison Parks Department but funding for the project will be provided by the Madison Metropolitan Sewerage District. There will also be an aquatic invasive species control center to allow boaters to remove materials from their boats prior to leaving Marshall Park.

The design process has followed the Institute for Sustainable Infrastructure (ISI) Envision guidelines and has taken into consideration community needs. A bike repair station will be located near the Allen Boulevard bike as an amenity for bikers; also a new sidewalk connection from the bike path will provide an accessible route to the bike station, pump station building, and Marshall Park. The restrooms and Aquatic Invasive Species Control Center were added after public comments requesting both project elements.

A public meeting was held on July 14, 2015 in Marshall Park. Alders for both Madison and Middleton were present in addition to about 20 members of the public. Presentations were made by the Design Team and were followed by questions from the public in attendance. The most overwhelming request was to provide better access to restrooms in Marshall Park and to provide an aquatic invasive species control center. After negotiations between the City of Madison Parks and Madison Metropolitan Sewerage District, the District agreed to finance and facilitate the construction of the restrooms. Upon completion of the restrooms and the aquatic invasive species control center, the District will deed these over to the City of Madison who will be responsible for the ongoing maintenance of these facilities. The restrooms will be open from 7 AM to 10 PM from about April 15th to November 15th.

As part of the MMSD's mission to protect water (groundwater and surface water), a green roof, bio swale/dry stream bed, bioretention basin, and permeable pavers are used to manage storm water runoff on-site. Runoff from the restrooms and the Aquatic Invasive Species Control Center will drain to a bioretention basin where the runoff can be temporarily staged and allowed to infiltrate back into the soil. The built storm water management control features are designed to enhance the site while showcasing the District's commitment to water quality.

Some minor grading will occur on the west and north sides of the pump station building to enhance and integrate the bio swale/dry stream bed with existing site drainage patterns. Invasive species within the MMSD easement will be eradicated during the site clearing and re-grading process and restored with a low-maintenance turf. Proposed plantings consist of native and native cultivar trees, shrubs and perennials that will provide multi-seasonal interest. The proposed species have been carefully selected to ensure a low-maintenance landscape that will require minimal supplemental water or fertilizer which is consistent with ISI Envision Guidelines and MMSD's mission of protecting water resources.

Indigenous and locally sourced decorative stone in the form of accent boulders, cobbles, and mulch will be concentrated around roof scuppers while directing runoff to the storm water management feature to dissipate concentrated roof runoff volumes and provide filtration, cooling, and temporary staging of runoff while directing runoff to the storm water management features. Decorative stone material will also be integrated throughout the site to create a holistic landscape composition.

The sloped roof allows for translucent clerestory panels that allow daylight into the both the pumping station and the restrooms. Windows will be provided along the south side of the building to allow people to see the inner workings of the facility.

The building will include photovoltaic panels to generate about 8kW of power at full sun. This will provide about 30 percent of the required kW to operate one of the pumps in PS 15. The sloped roof on both the Pumping Station and restrooms allow for translucent clerestory panels that allow daylight into the facility. Windows will be provided along the south side of the building to allow people to see the inner workings of the facility. There will be a station status display for visitors to view. An informational kiosk will also be provided for educational purposes. If approved by the County, we will also likely have a bike trail map located near the bike station.

The site development was designed to minimize the elimination of critically needed boat trailer parking in Marshall Park. Design features were included to maintain the existing boat trailer parking stalls and minimize the exposure of the pumping station to boat trailer parking. Equipment for the station will be removed from the building using the double door entrance on the east side of the building along with the concrete pad extension.

The building materials will be durable and cleanable. The walls are constructed of burnished concrete blocks in a range of warm neutral colors to create a subtle range similar to natural stone. Cement board and composite wood siding will be used for the clerestory and roof fascia.

The project is expected to create 27,000 hours of work for both contractors and consulting engineers. There will be no additional full time equivalent jobs created by this project.

Figures 1 and 2 show the existing location of PS 15 in relation to Marshall Park.

FIGURE 1

MMSD PS 15-Allen Boulevard towards Marshall Park



FIGURE 2

Relationship of MMSD PS 15 to Marshall Park



-Project Schedule

Table 2 shows the proposed bidding and construction schedule for PS 15.

TABLE 2

Bidding and Construction Schedule-PS 15

| | |
|---|---------------------------|
| Urban Design Commission Information Meeting | August 12, 2015 |
| City of Madison Planning Commission Submittal | December 21, 2015 |
| Submittal to Madison Parks | December 21, 2015 |
| Madison Parks Commission Meeting | January 13, 2016 |
| Urban Design Commission Meeting | February 10, 2016 |
| Madison Plan Commission Meeting | February 22, 2016 |
| City Council Approval-Conditional Use Permit | March 1, 2016 |
| Advertise Project for Bids | March 1, 2016 |
| Open Bids | March 31, 2016 |
| Project Award-Contractor | April 14, 2016 |
| Construction Begins | May 2016 |
| Project Erosion Controls Completed | May 31, 2016 |
| Building Addition Foundation | August 31, 2016 |
| Meter Vault and Force Main Connection Manhole | August 31, 2016 |
| Site Work and Paving (Binder Course Only)-Start Date | September 6, 2016 |
| Bathroom Construction | October 31, 2016 |
| Site Work and Paving (Binder Course Only) | October 31, 2016 |
| Pumping Station Building Completion | December 2016 |
| Final Paving | May 31, 2017 |
| Project Completion | September 30, 2017 |

Building Sizes, Lot Coverage, Estimated Project Cost and Bike Stalls

The Pumping Station will be 1,650 square feet while the restrooms will be 380 square feet. The easement for PS 15 is 21,000 square feet. A portion of the construction will take place outside of the easement in both Marshall Park as well as in the City of Middleton storm sewer easement. The estimated project cost including the restrooms is \$3,800,000. The bike station will be provided with 4 stalls for bike parking.

RUBIX - model: WS-W2504, WS-W2505

LED Wall Mount

WAC LIGHTING

Responsible Lighting®



Fixture Type:

Catalog Number:

Project: _____

Location: _____

PRODUCT DESCRIPTION

Available in single- and twin-light configurations, this die cast aluminum LED wall luminaire is wet location listed for a broad range of exterior lighting applications. Designed with a square profile, this version of Rubix mounts upwards or downwards.

FEATURES

- Energy Star® rated
- CEC Title 24 Compliant
- Mounts up or down
- IP65 Rated, ETL & cETL Wet Location Listed
- Die-Cast Aluminum Construction
- Universal Voltage Input (120V - 277V)
- Dimming: ELV (120V) or 0-10V

SPECIFICATIONS

Construction: Aluminum with etched glass.

Power: Integral driver in luminaire. 120V - 277V input.

Light Source: High output LED

Mounting: Mounts directly to junction box

Dimming: 0-10V Dimming: 100%-10%

ELV Dimming: 100%-15% (120V only)

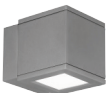
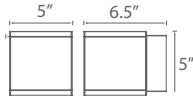
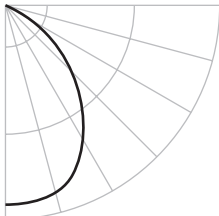

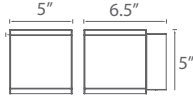
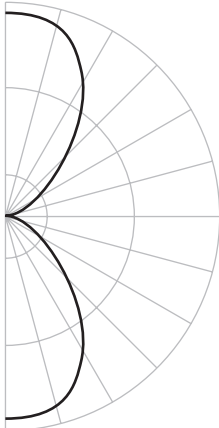

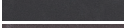


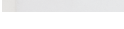
Finish: Brushed Aluminum (AL), Black (BK), Bronze (BZ), Graphite (GH), White (WT)

Color Temp: 3000K

CRI: 90

Rated Life: 70,000 hours

Standards: Energy Star® rated, IP65 Rated, ETL & cETL Wet Location Listed, CEC Title 24 Compliant, Dark Sky Friendly.

| | Beam | Photometry | Voltage | Watt | Lumens | Finish |
|---|------|---|-------------|------|--------|---|
|  <p>Single Light</p>  <p>WS-W2504 Dark Sky Friendly 86° Energy Star®</p> | |  | 120V - 277V | 16W | 750 | |
|  <p>Double Light</p>  <p>WS-W2505 86°</p> | |  | 120V - 277V | 30W | 1400 | <p>AL Brushed Aluminum </p> <p>BK Black </p> <p>BZ Bronze </p> <p>GH Graphite </p> <p>WT White </p> |

-

Example: **WS-W2504-GH**

waclighting.com

Phone (800) 526.2588

Fax (800) 526.2585

Headquarters/Eastern Distribution Center

44 Harbor Park Drive

Port Washington, NY 11050

Central Distribution Center

1600 Distribution Ct

Lithia Springs, GA 30122

Western Distribution Center

1750 Archibald Avenue

Ontario, CA 91760

MADISON METROPOLITAN SEWERAGE DISTRICT

MADISON, WISCONSIN

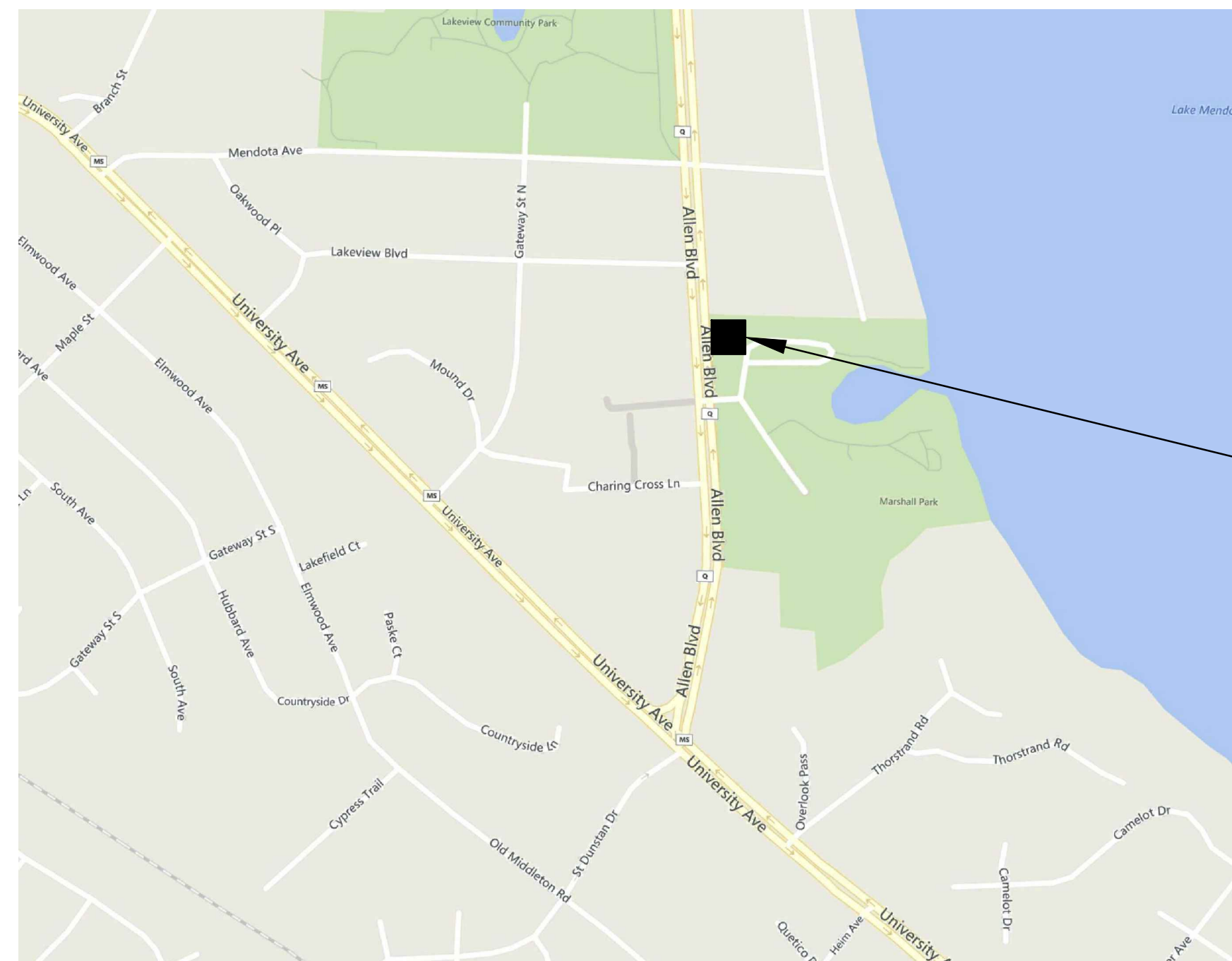
PUMPING STATION 15 REHABILITATION

CITY OF MADISON PLANNING COMMISSION SUBMITTAL

Madison Metropolitan Sewerage District



NO SCALE



PROJECT LOCATION

VICINITY MAP

City of Madison Planning Commission Submittal
List of Drawings

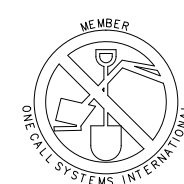
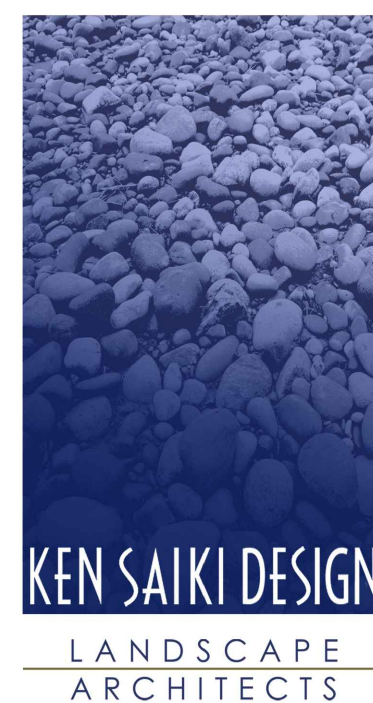
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|----------------|--|
| A-01 | Floor Plan |
| A-02 | Elevations |
| A-03 | Elevations |
| A-04 | Perspectives |
| A-05 | Perspectives |
| L-01 | Landscape Plan |
| L-02 | Site Rendering |
| C-1 | Demolition Site Plan (Existing Conditions) |
| C-2 | Site Plan & Erosion Control |
| C-3 | Mechanical Site Plan (Utilities) |
| C-6 | Electrical Site Plan (Photometrics) |
| M-3 | Upper Plan-Mechanical |

EXISTING UTILITIES:

WHERE THE DRAWINGS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES. THE INFORMATION IS INCLUDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. THE UTILITY LOCATIONS WERE DETERMINED FROM THE BEST AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE DRAWINGS REGARDING THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION REGARDING THE LOCATION OF THE UTILITY FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THE FACILITIES.



WWW.BAXTERWOODMAN.COM



TO OBTAIN LOCATION OF PARTICIPANT'S 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.

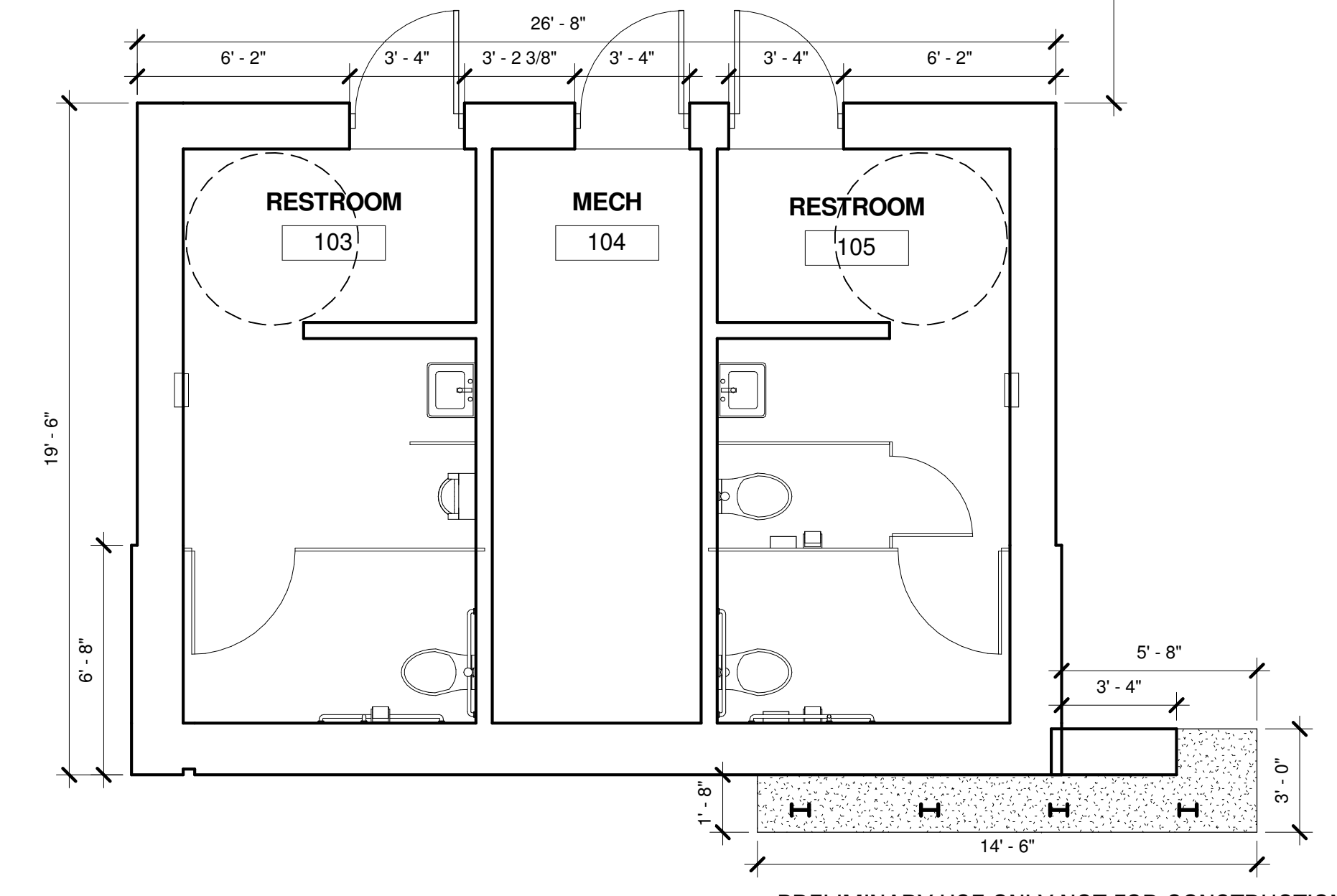
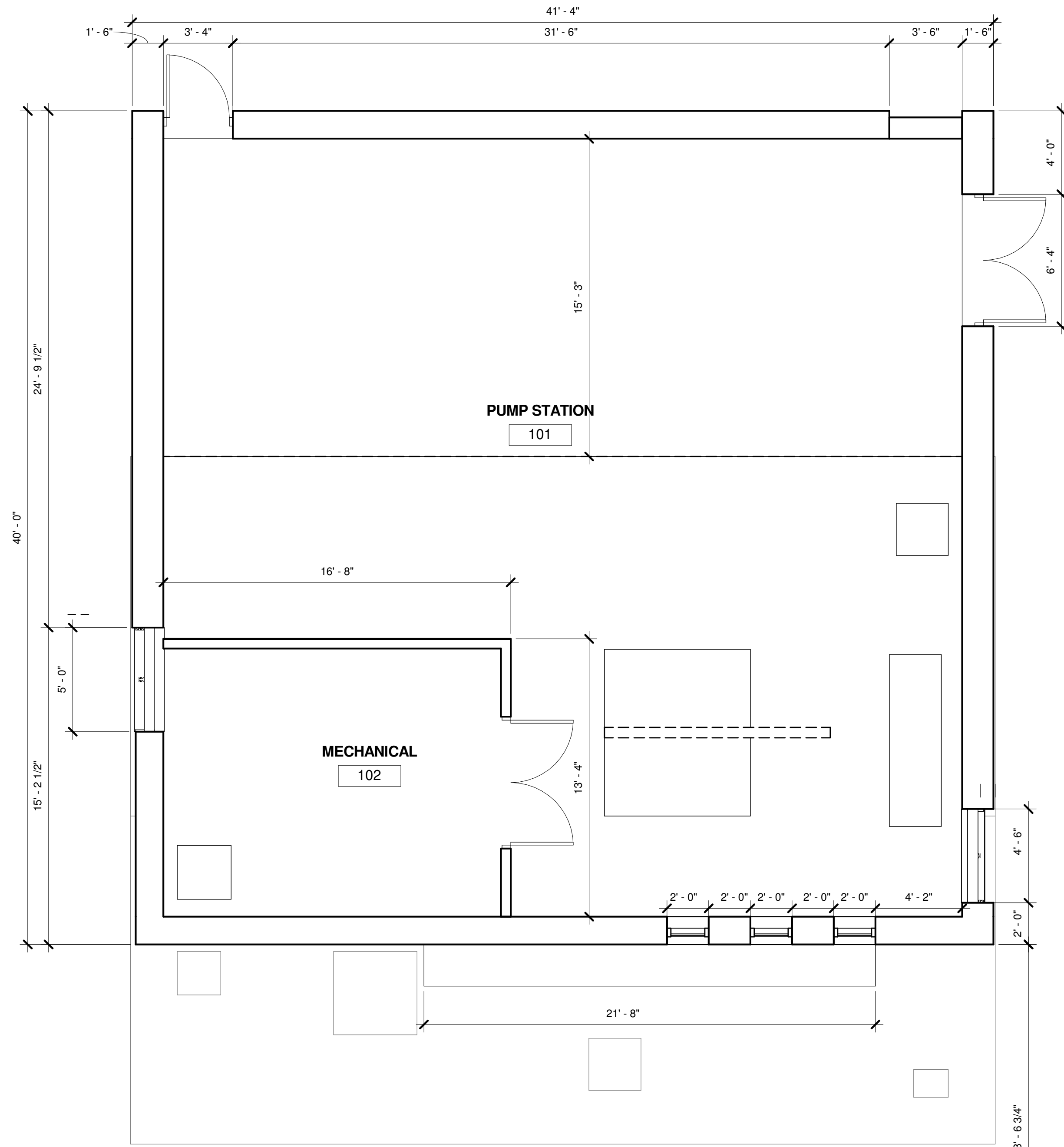
BAXTER & WOODMAN, INC.
STATE OF WISCONSIN – PROFESSIONAL DESIGN FIRM
LICENSE NO. – 484-011 – EXPIRES 1/31/2016

NOT FOR BIDDING

PROJECT NO.: 140963 DATE: 12/18/15
LAND USE SUBMITTAL

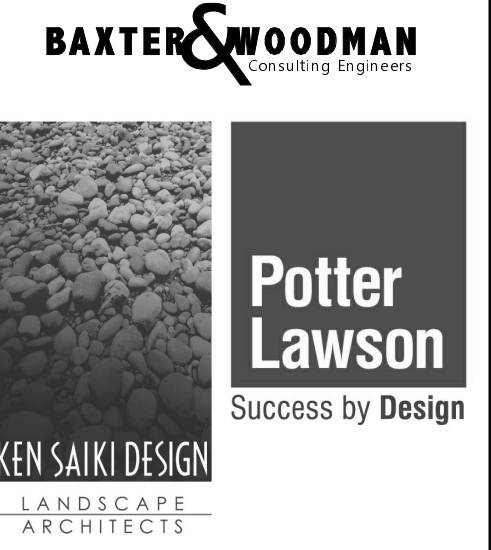
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 Copyright © 2015, By Baxter & Woodman, Inc.
 a Wisconsin Professional Design Firm
 License No. 684-01 Expires 1-31-16

1 FLOOR PLAN
 A-01 1/4" = 1'-0"

PRELIMINARY USE ONLY NOT FOR CONSTRUCTION

CONSULTANTS



| REVISIONS | |
|-----------|--------------------|
| NO. | DATE |
| 1 | 12/16/2015 |
| | Land Use Submittal |

PLAN SHEET DESIGNATION
 COVER
 G - GENERAL
 C - CIVIL
 L - LANDSCAPING
 D - DEMOLITION
 A - ARCHITECTURAL
 S - STRUCTURAL
 M - MECHANICAL
 P - PLUMBING
 H - HVAC
 E - ELECTRICAL
 I - INSTRUMENTATION

PROJECT NO: 2015.04.00
 SCALE: AS NOTED
 DRAWING DATE:
 DESIGNED BY: DOUG H
 DRAWN BY: ANDREW L
 CHECKED BY: DOUG H

CLIENT
**MADISON METROPOLITAN
 SEWERAGE DISTRICT
 MADISON, WISCONSIN**

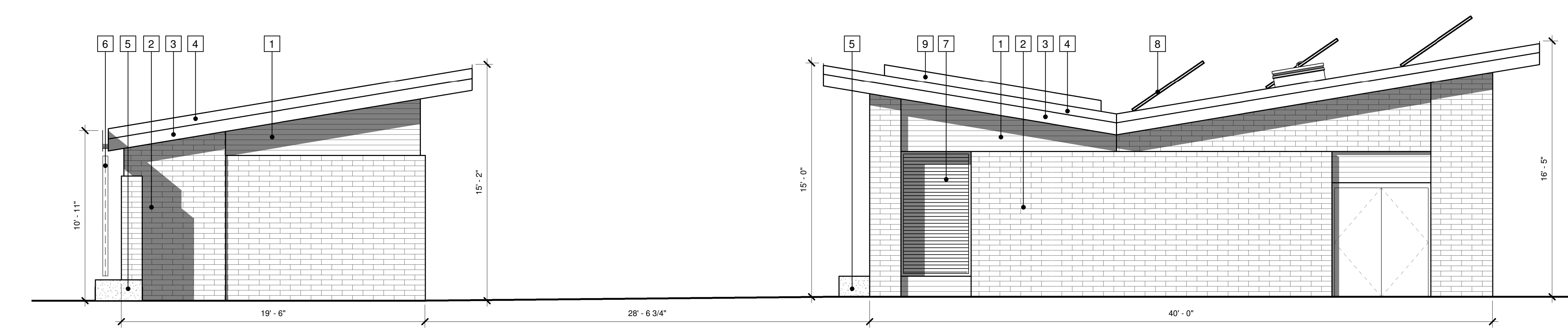
Madison Metropolitan Sewerage District
**PUMPING STATION 15
 REHABILITATION**

SHEET TITLE
Floor Plan

A-01

ELEVATION KEY NOTES:

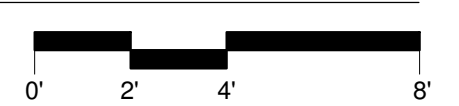
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| 2 BURNISHED BLOCK VENEER | 9 GREEN ROOF |
| 3 CEMENT BOARD FASCIA | 10 TRANSLUCENT WALL PANEL |
| 4 METAL ROOF COPING | 11 T&G WOOD SOFFIT |
| 5 CONCRETE BENCH | 12 ALUMINUM STOREFRONT SYSTEM |
| 6 METAL SCUPPER / GUTTER | 13 STANDING SEAM METAL ROOF |
| 7 MECHANICAL LOUVER | |



2 Pump Station / Restroom - East Elevation
A-02 1/4" = 1'-0"



1 Pump Station / Restroom - West Elevation
A-02 1/4" = 1'-0"



| NO. | DATE | DESCRIPTION |
|-----|------------|--------------------|
| 1 | 12/18/2015 | Land Use Submittal |

PLAN SHEET DESIGNATION

COVER

G - GENERAL
C - CIVIL
L - LANDSCAPING
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S - STRUCTURAL
M - MECHANICAL
P - PLUMBING
H - HVAC
E - ELECTRICAL
I - INSTRUMENTATION

PROJECT NO.: 2015.04.00

SCALE: AS NOTED

DRAWING DATE:

DESIGNED BY: DOUG H

DRAWN BY: ANDREW L

CHECKED BY: DOUG H

CLIENT

MADISON METROPOLITAN SEWERAGE DISTRICT
MADISON, WISCONSIN

Madison Metropolitan Sewerage District

PUMPING STATION 15 REHABILITATION

SHEET TITLE

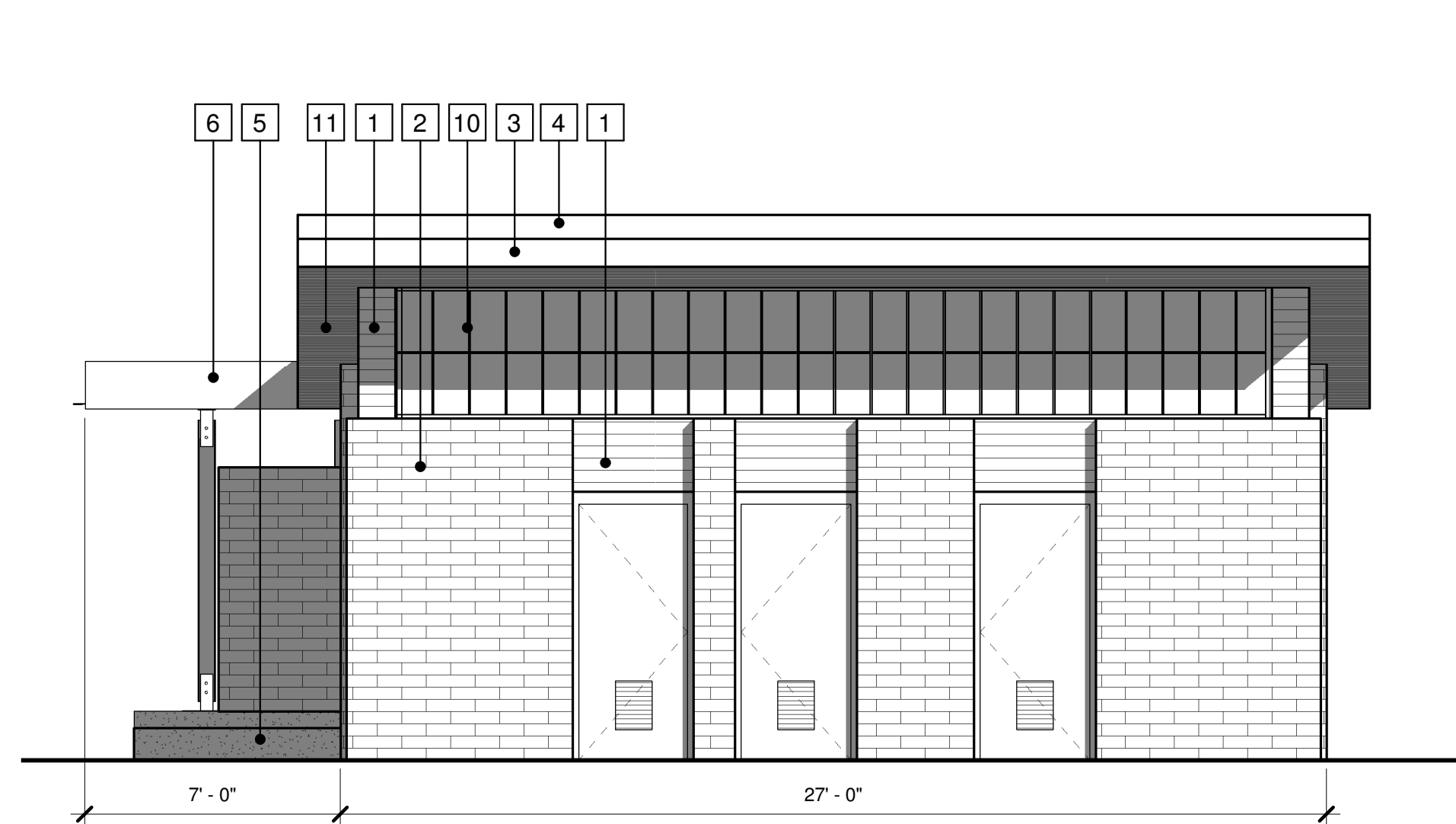
Elevations

A-02

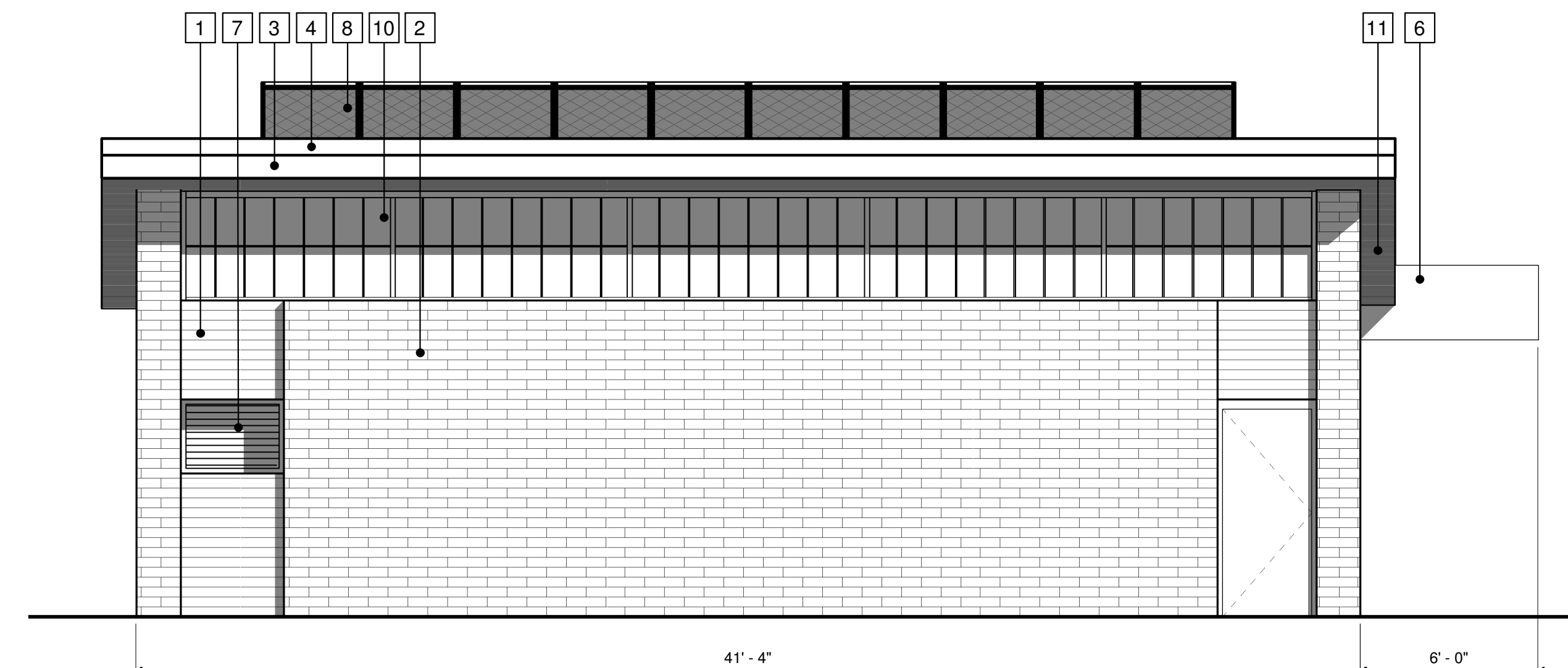
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Copyright © 2015, by Baxter & Woodman, Inc.
State of Wisconsin Professional Design Firm
License No. 684-011 Expires 12-31-16

ELEVATION KEY NOTES:

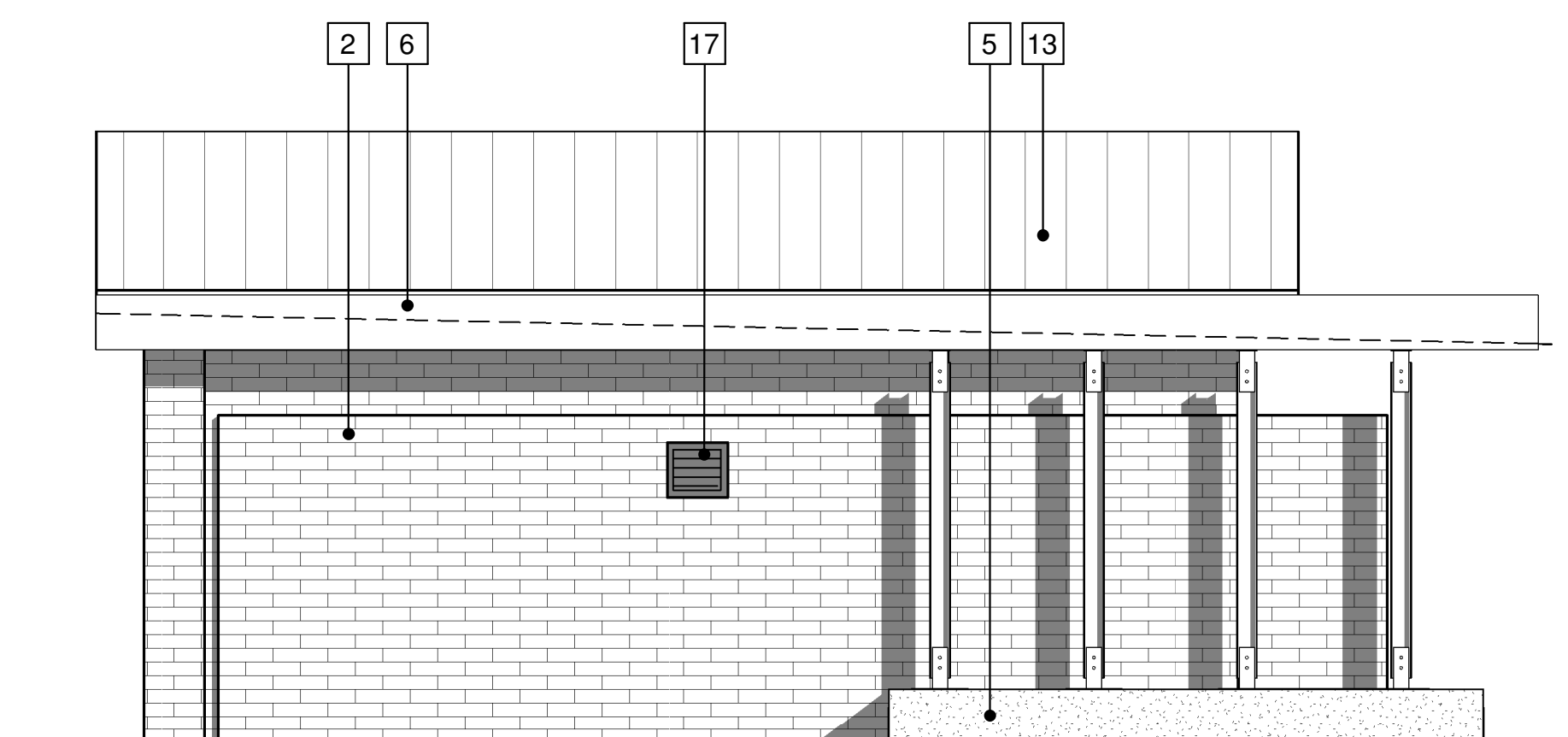
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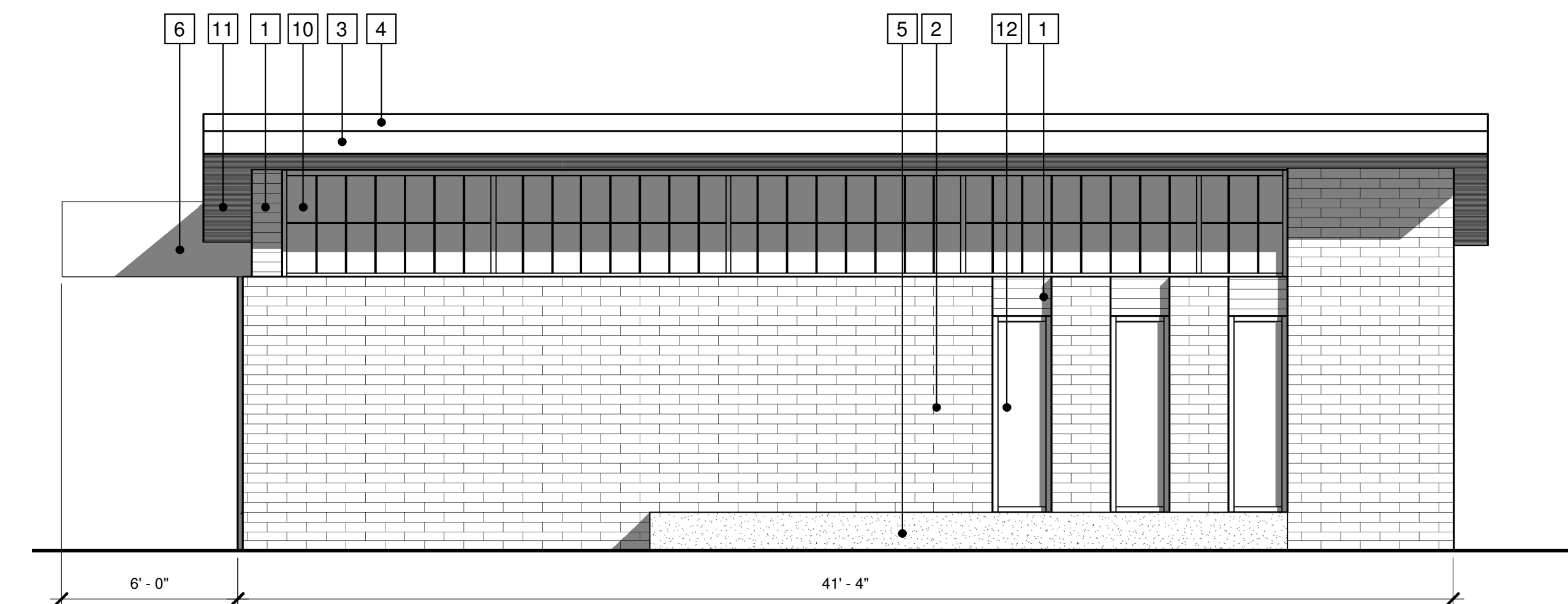
4 Restroom - North Elevation
A-03 1/4" = 1'-0"
0' 2' 4' 8'



2 Pump Station - North Elevation
A-03 1/4" = 1'-0"
0' 2' 4' 8'



3 Restroom - South Elevation
A-03 1/4" = 1'-0"
0' 2' 4' 8'



1 Pump Station - South Elevation
A-03 1/4" = 1'-0"
0' 2' 4' 8'

| NO. | DATE | DESCRIPTION |
|-----|------------|--------------------|
| 1 | 12/18/2015 | Land Use Submittal |

PLAN SHEET DESIGNATION

COVER

G - GENERAL
C - CIVIL
L - LANDSCAPING
D - DEMOLITION
A - ARCHITECTURAL
S - STRUCTURAL
M - MECHANICAL
P - PLUMBING
H - HVAC
E - ELECTRICAL
I - INSTRUMENTATION

PROJECT NO: 2015.04.00

SCALE: AS NOTED

DRAWING DATE:

DESIGNED BY: DOUG H

DRAWN BY: ANDREW L

CHECKED BY: DOUG H

CLIENT

MADISON METROPOLITAN SEWERAGE DISTRICT
MADISON, WISCONSIN

Madison Metropolitan Sewerage District

PUMPING STATION 15 REHABILITATION

SHEET TITLE

Elevations

A-03



South-East Perspective



South-West Perspective



North-East Perspective



North-West Perspective

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LANDSCAPE
ARCHITECTS

| NO. | DATE | DESCRIPTION |
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| SCALE: | AS NOTED |
| DRAWING DATE: | |
| DESIGNED BY: | DOUG H |
| DRAWN BY: | ANDREW L |
| CHECKED BY: | DOUG H |

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**MADISON METROPOLITAN
SEWERAGE DISTRICT
MADISON, WISCONSIN**

Madison Metropolitan Sewerage District



**PUMPING STATION 15
REHABILITATION**

SHEET TITLE

Perspectives

A-04



South-East Aerial



South-West Aerial



North-East Aerial



North-West Aerial

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SEWERAGE DISTRICT
MADISON, WISCONSIN**

Madison Metropolitan Sewerage District



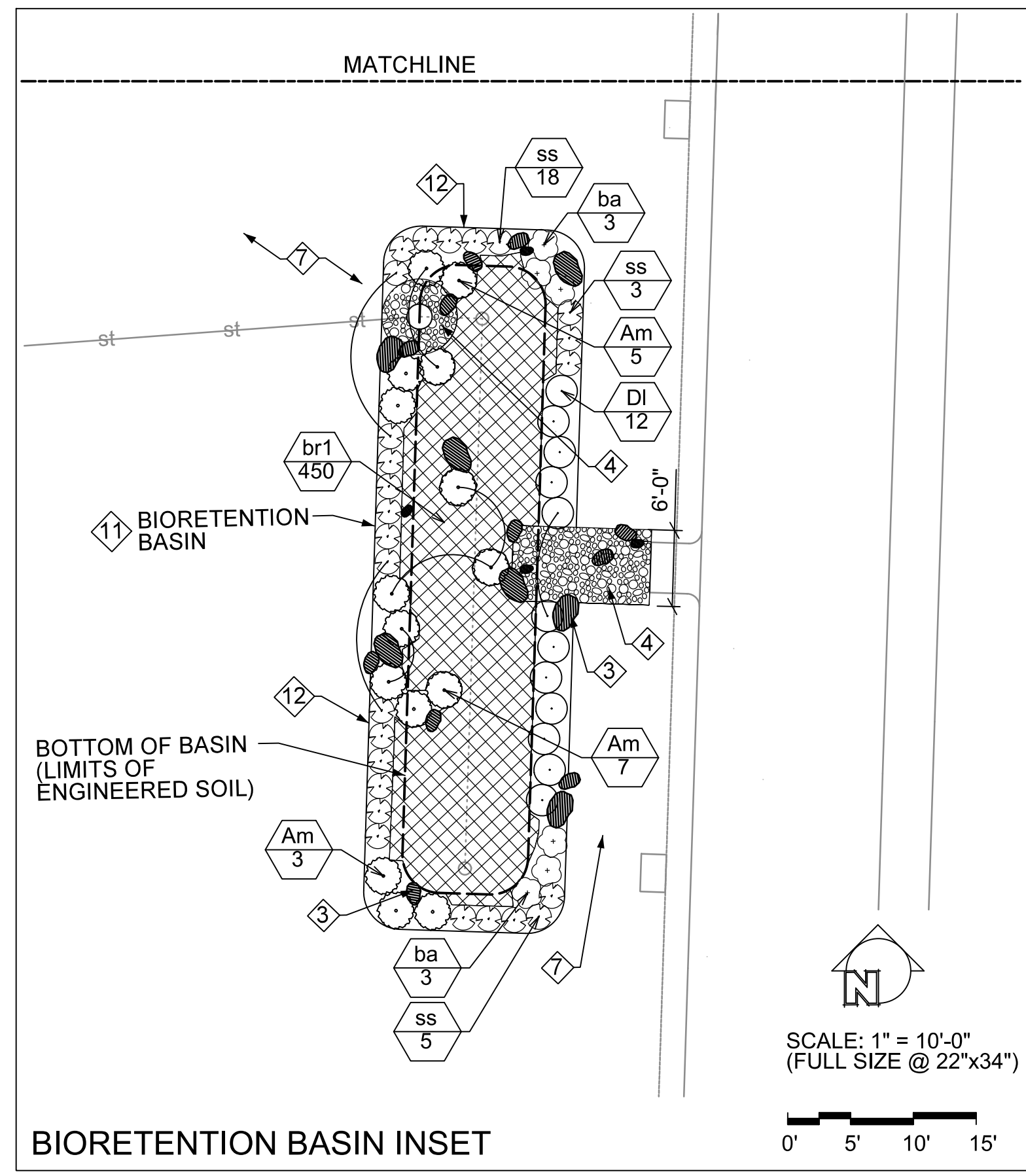
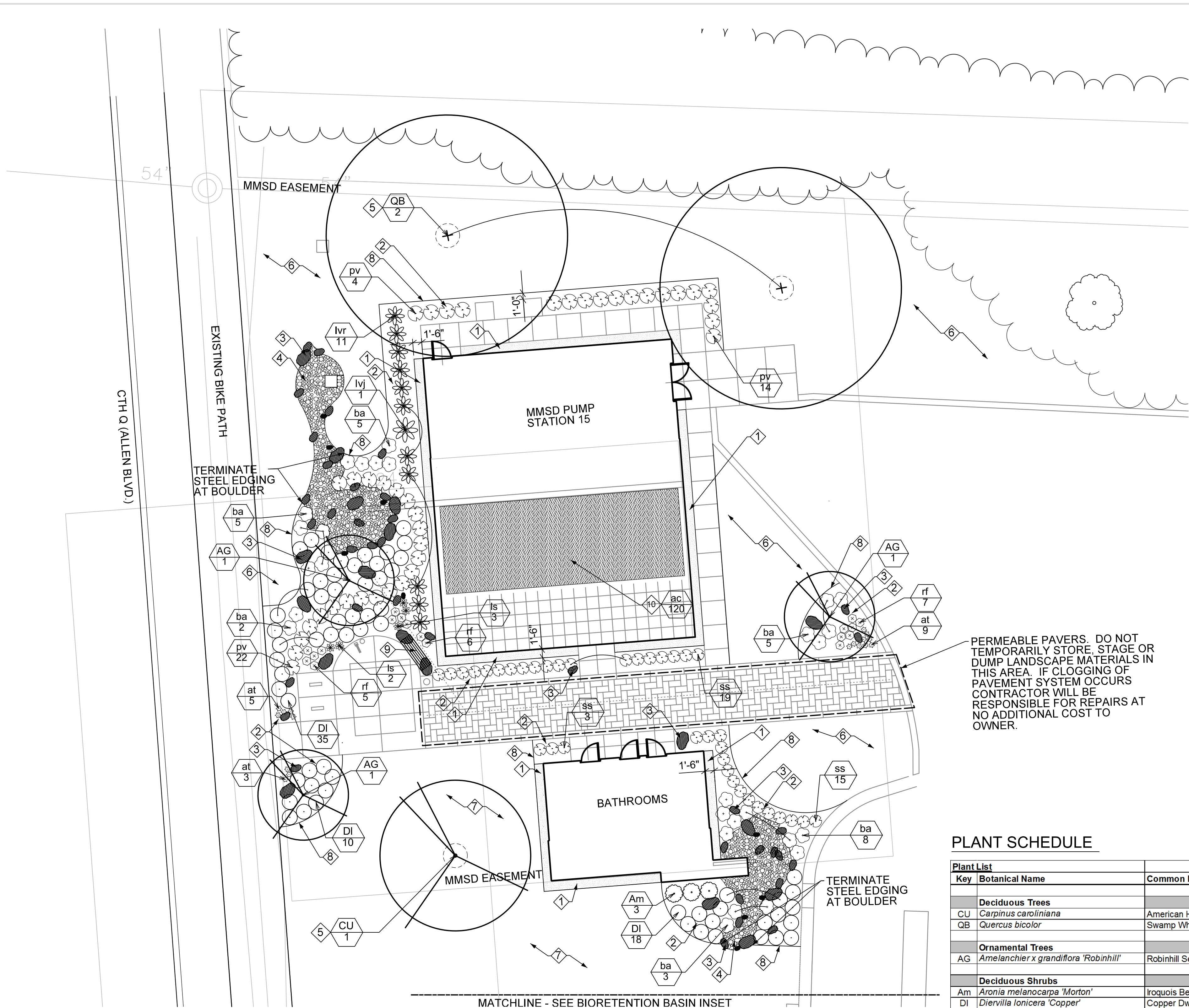
**PUMPING STATION 15
REHABILITATION**

SHEET TITLE

Perspectives

A-05

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PERMEABLE PAVERS. DO NOT TEMPORARILY STORE, STAGE OR DUMP LANDSCAPE MATERIALS IN THIS AREA. IF CLOGGING OF PAVEMENT SYSTEM OCCURS CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS AT NO ADDITIONAL COST TO OWNER.

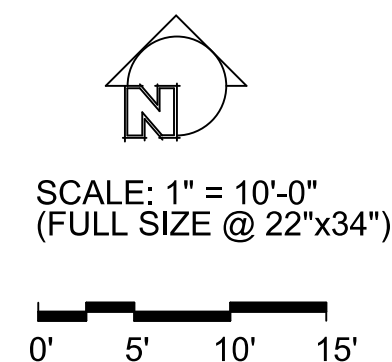
- LEGEND**
- ① MAINTENANCE EDGE, SEE DETAIL 2/L-2
 - ② SHREDDED HARDWOOD BARK MULCH
 - ③ ACCENT BOULDER, SEE DETAIL 4/L-2
 - ④ DECORATIVE COBBLES, SEE DETAIL 5/L-2
 - ⑤ SHREDDED HARDWOOD BARK MULCH RING AT BASE OF TREE, SEE DETAIL 1/L-2
 - ⑥ SEEDED NO-MOW FESCUE LAWN WITH EROSION CONTROL MAT
 - ⑦ SEEDED BLUEGRASS LAWN
 - ⑧ STEEL EDGING
 - ⑨ BENCH, SEE DETAIL 3/L-2
 - ⑩ EXTENSIVE GREEN ROOF - SEDUM TILE & PERENNIALS PER PLANT SCHEDULE
 - ⑪ JUTE MESH OVER SHREDDED HARDWOOD BARK MULCH (ENTIRE BIORETENTION BASIN)
 - ⑫ SHOVEL-CUT EDGING

PLANT SCHEDULE

| Plant List | Key | Botanical Name | Common Name | Quantity | Size | Root Condition | Comments |
|--|--|-------------------------------|-------------|-------------------------|-------|---|----------|
| Deciduous Trees | | | | | | | |
| CU | <i>Carpinus caroliniana</i> | American Hornbeam | 1 | 2" Cal. | B&B | Space Per Plans | |
| QB | <i>Quercus bicolor</i> | Swamp White Oak | 2 | 2" Cal. | B&B | Space Per Plans | |
| Ornamental Trees | | | | | | | |
| AG | <i>Amelanchier x grandiflora 'Robinhill'</i> | Robinhill Serviceberry | 3 | 6' Ht. | B&B | Multi-Stem Tree; Space Per Plans | |
| Deciduous Shrubs | | | | | | | |
| Am | <i>Aronia melanocarpa 'Morton'</i> | Iroquois Beauty Chokeberry | 18 | 24" Ht. | Cont. | Space 3'-0" o.c. | |
| DI | <i>Diervilla lonicera 'Copper'</i> | Copper Dwarf Bush Honeysuckle | 75 | 24" Sprd. | Cont. | Space 2'-6" o.c. | |
| lvr | <i>Ilex verticillata 'Red Sprite'</i> | Red Sprite Winterberry | 11 | 24" Ht. | Cont. | Space 2'-6" o.c. | |
| lj | <i>Ilex verticillata 'Jim Dandy'</i> | Jim Dandy Winterberry | 1 | 24" Ht. | Cont. | Space Per Plans | |
| Perennials/Grasses/Groundcovers | | | | | | | |
| at | <i>Allium tanguticum 'Summer Beauty'</i> | Summer Beauty Allium | 17 | #1 | Cont. | Space 12" o.c. | |
| ac | <i>Allium cernuum</i> | Nodding Onion | 120 | 2" sq. x 3.5" deep min. | Plug | Space 12" o.c. mix randomly into green roof | |
| ba | <i>Baptisia 'solar flare' Prairieblues</i> | Solar Flare False Indigo | 34 | #1 | Cont. | Space 30" o.c. | |
| ss | <i>Schizachyrium scoparium 'MinnblueA'</i> | Blue Heaven Little Bluestem | 63 | #1 | Cont. | Space 24" o.c. | |
| rf | <i>Rudbeckia fulgida 'Early Bird Gold'</i> | Early Bird Gold Coneflower | 18 | #1 | Cont. | Space 18" o.c. | |
| ls | <i>Liatris spicata 'Kobold'</i> | Kobold Spiked Gayfeather | 5 | #1 | Cont. | Space 18" o.c. | |
| pv | <i>Panicum virgatum 'Shenandoah'</i> | Shenandoah Switchgrass | 40 | #1 | Cont. | Space 30" o.c. | |
| Bioretention Area Mix | | | | | | | |
| br1 | <i>Asclepias tuberosa</i> | Butterfly Weed | 50 | 2" sq. x 5" deep min. | Plug | Mix evenly & Space 12" o.c. | |
| | <i>Aquilegia canadensis</i> | Columbine | 30 | 2" sq. x 5" deep min. | Plug | | |
| | <i>Carex bicknellii</i> | Copper Shouldered Oval Sedge | 170 | 2" sq. x 5" deep min. | Plug | | |
| | <i>Carex bebbii</i> | Bebb's Oval Sedge | 60 | 2" sq. x 5" deep min. | Plug | | |
| | <i>Carex sprengei</i> | Long Beaked Sedge | 55 | 2" sq. x 5" deep min. | Plug | | |
| | <i>Carex vulpinoidea</i> | Brown Fox Sedge | 55 | 2" sq. x 5" deep min. | Plug | | |
| | <i>Rudbeckia speciosa sullivanti</i> | Showy Black-Eyed Susan | 30 | 2" sq. x 5" deep min. | Plug | | |

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING AND PROPOSED SITE UTILITIES. CONTACT DIGGERS HOTLINE, CITY OF MADISON AND CITY OF MIDDLETON FOR UNDERGROUND UTILITY LOCATIONS. NOTIFY PROJECT REPRESENTATIVE OF ANY PROBLEMS.
2. PROTECT ALL PAVEMENTS, CURBS, UTILITIES, AND OTHER SITE ELEMENTS DURING PLANTING OPERATIONS.
3. SUBMIT TOPSOIL TESTING REQUIREMENTS PER SECTION 329113, SOIL PREPARATION.
4. VERIFY THAT SPECIFIED PLANTING SOIL DEPTH IS PRESENT PRIOR TO PLANTING PER SECTION 329113, SOIL PREPARATION. NOTIFY PROJECT REPRESENTATIVE OF ANY PROBLEMS.
5. LAYOUT, STAKE OR PAINT THE PROPOSED LOCATION OF ALL PLANTINGS FOR APPROVAL BY PROJECT REPRESENTATIVE PRIOR TO PLANTING.
6. SPACE SHRUBS AND PERENNIALS PER PLANT SCHEDULE.
7. ALL WRAPPINGS, WIRE BASKETS, BURLAP, TWINE AND OTHER MISCELLANEOUS MATERIAL SHALL BE REMOVED FROM ENTIRE ROOT BALL PRIOR TO INSTALLATION.
8. ALL LAWN AREAS ADJACENT TO THE PROJECT SITE THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO, UTILITY TRENCHING, ACCESS, OR MATERIALS STORAGE SHALL BE REPAIRED WITH SEED MIXES AS NOTED ON THE PLANS AND PER SECTION 32 92 00, TURF AND GRASSES.
9. REPAIR TO ORIGINAL CONDITION ALL EXISTING VEGETATION NOTED TO REMAIN INCLUDING PLANTS, MULCH AND EDGING THAT HAVE BEEN DISTURBED BY CONSTRUCTION ACTIVITIES.
10. ALL PLANTING BEDS TO RECEIVE SHREDDED HARDWOOD BARK MULCH UNLESS OTHERWISE NOTED.
11. HOLD CENTER OF PERENNIAL PLANTINGS A MINIMUM OF 18" AND CENTER OF SHRUB PLANTINGS A MINIMUM OF 24" FROM BACK OF CURB/EDGE OF PAVEMENT.



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REVISIONS

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PLAN SHEET DESIGNATION

COVER
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PROJECT NO: 140963
 SCALE: AS NOTED
 DRAWING DATE: 12/18/2015
 DESIGNED BY: NMS
 DRAWN BY: NMS
 CHECKED BY: NMS

MADISON METROPOLITAN SEWERAGE DISTRICT
MADISON, WISCONSIN

Madison Metropolitan Sewerage District

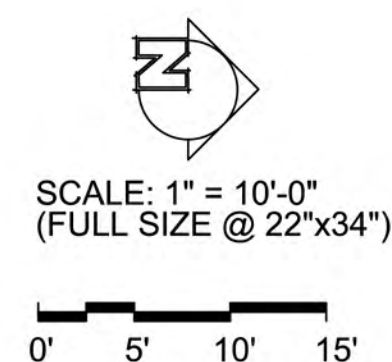
PUMPING STATION 15 REHABILITATION

LANDSCAPE PLAN

L-01

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**MADISON METROPOLITAN
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 MADISON, WISCONSIN**

Madison Metropolitan Sewerage District

**PUMPING STATION 15
 REHABILITATION**

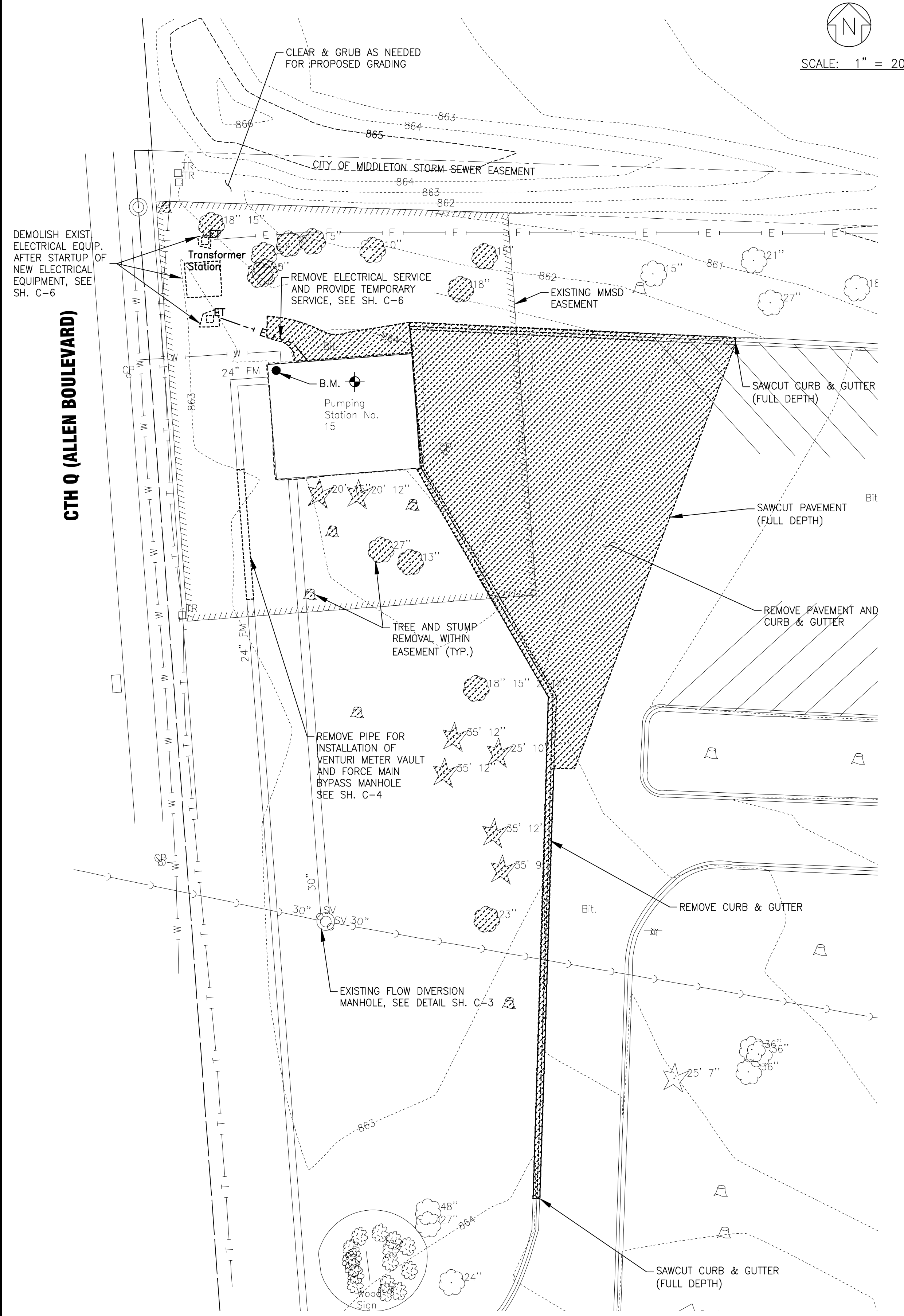
SHEET TITLE

SITE RENDERING

L-02

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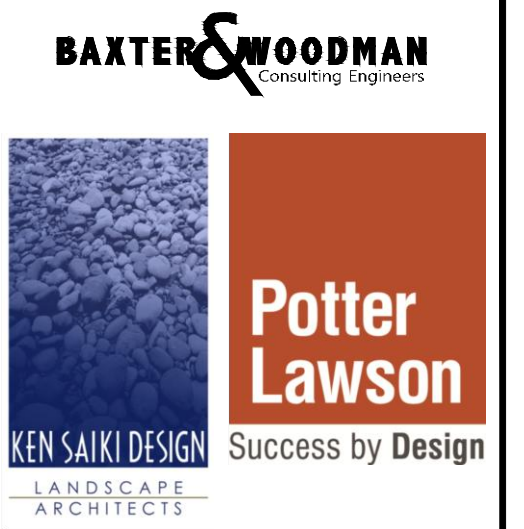
BENCHMARK

PUMPING STATION 15 BENCHMARK:
 ON NORTHWEST CORNER OF PUMPING STATION 15 FOR MMSD AT MARSHALL PARK
 ON ALLEN BOULEVARD - EL. 865.25'

NOTES:

1. REFER TO CONSTRUCTION SEQUENCE IN SECTION 01 31 14 FOR SPECIFIC DEMOLITION REQUIREMENTS.
2. STRIP TOPSOIL AND STOCKPILE IN ACCORDANCE WITH SECTION 31 16 00 FOR AREAS TO BE IMPROVED (NOT SHOWN). FOLLOW SCHEDULE INCLUDED IN SECTION 01 14 15 PUMPING STATION OPERATION DURING CONSTRUCTION.

CONSULTANTS



| REVISIONS | |
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| NO. | DESCRIPTION |
| 1 | LAND USE SUBMITTAL |
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| DRAWING DATE: | |
| DESIGNED BY: | JWM |
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 MADISON, WISCONSIN**



**PUMPING STATION 15
 REHABILITATION**

SHEET TITLE

DEMOLITION SITE PLAN

C-1
 3 OF 59

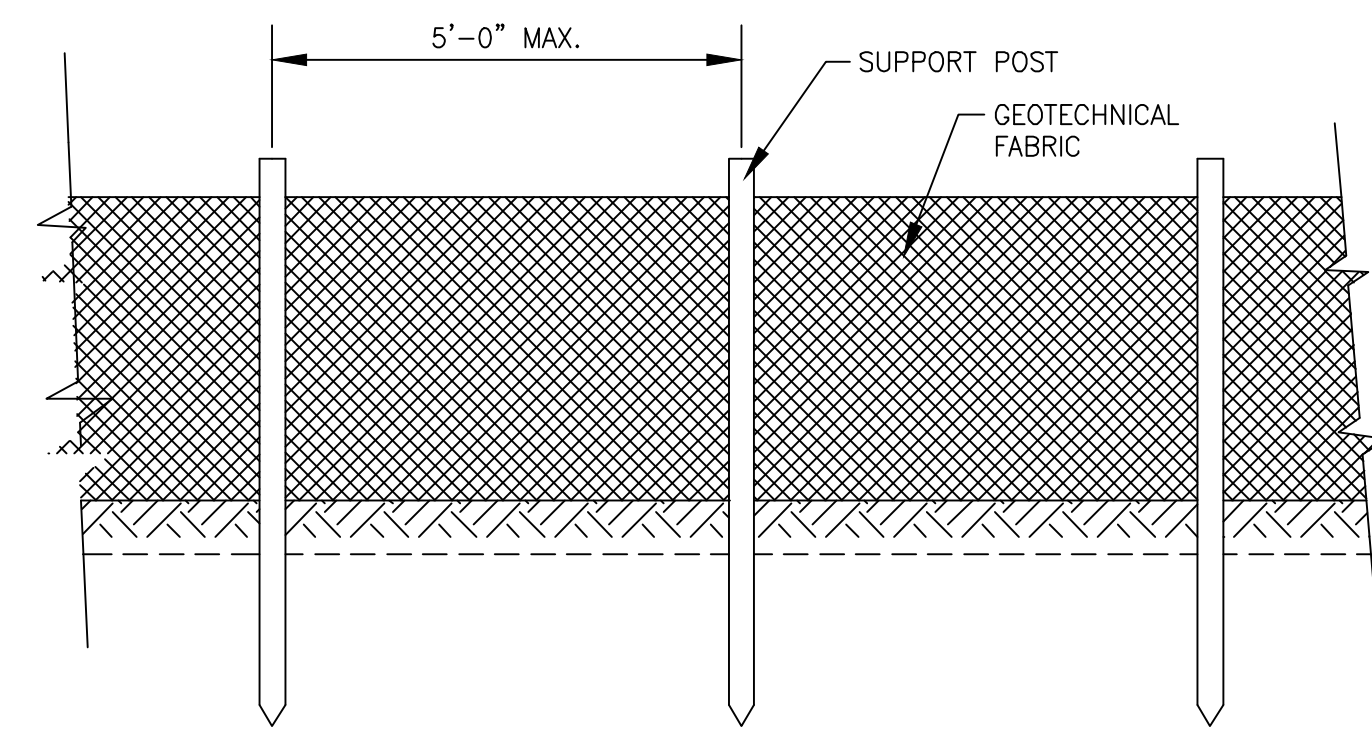
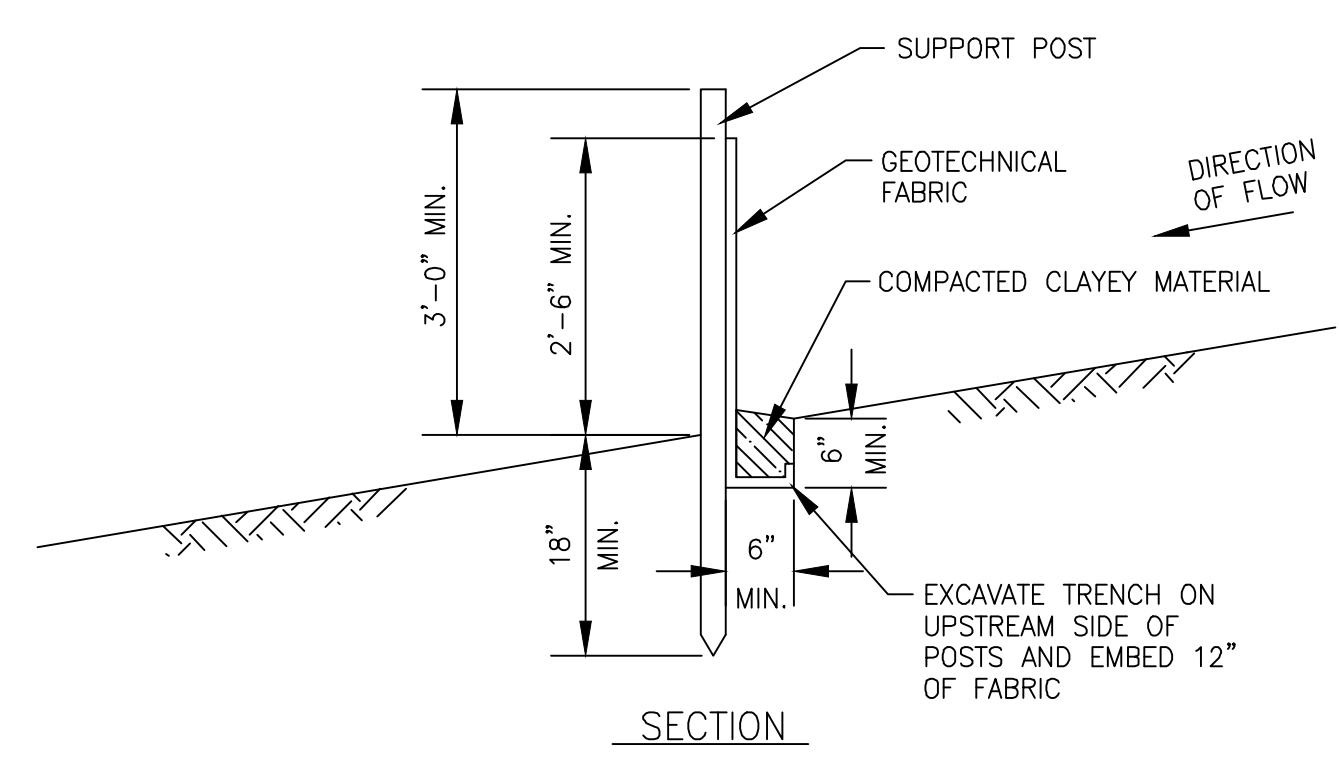
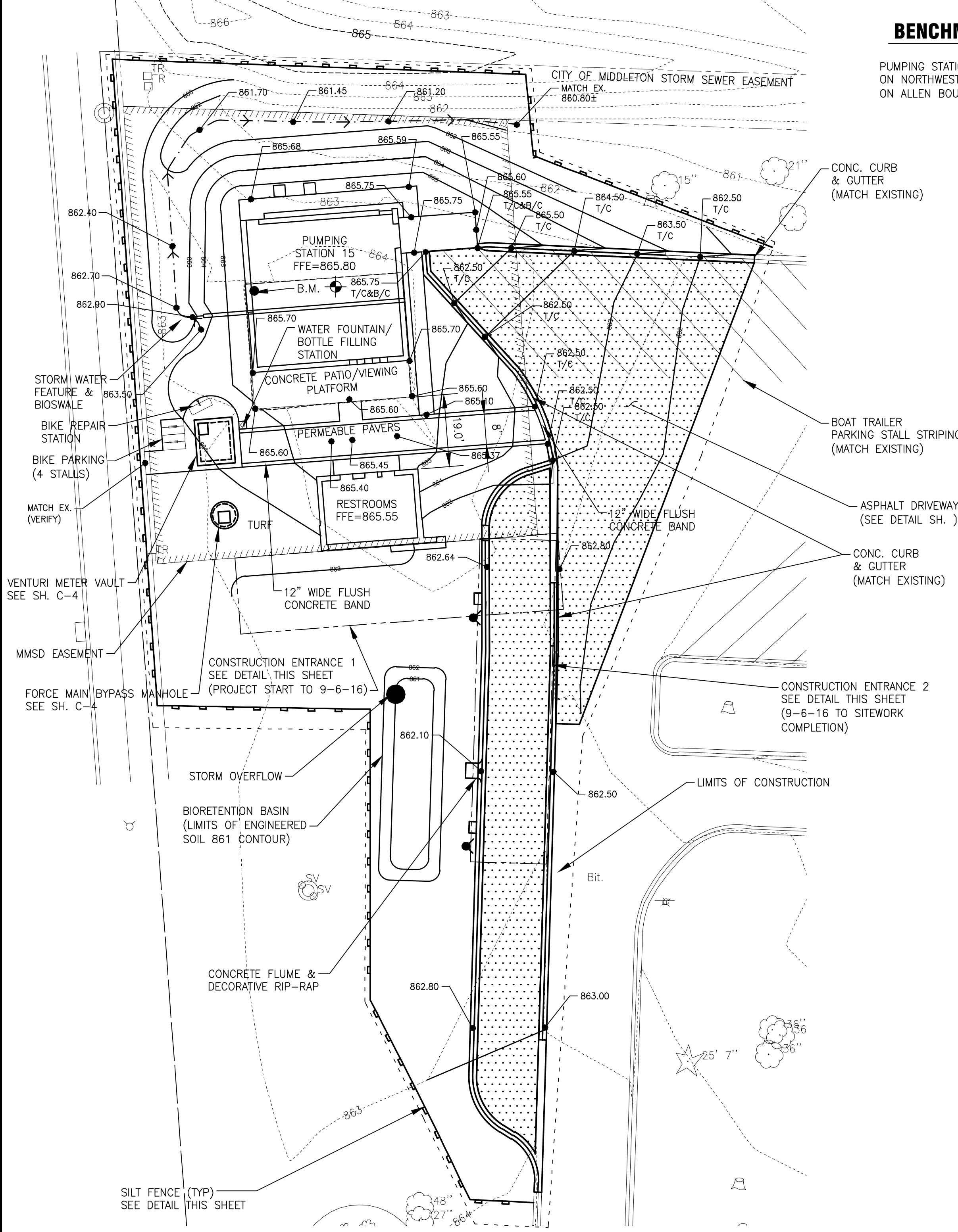
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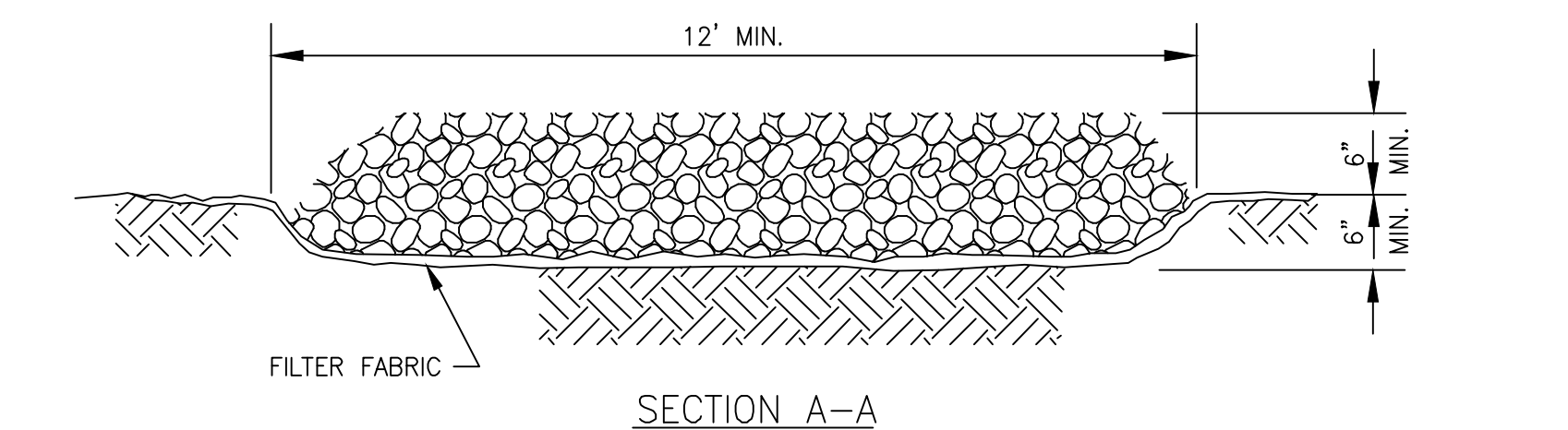
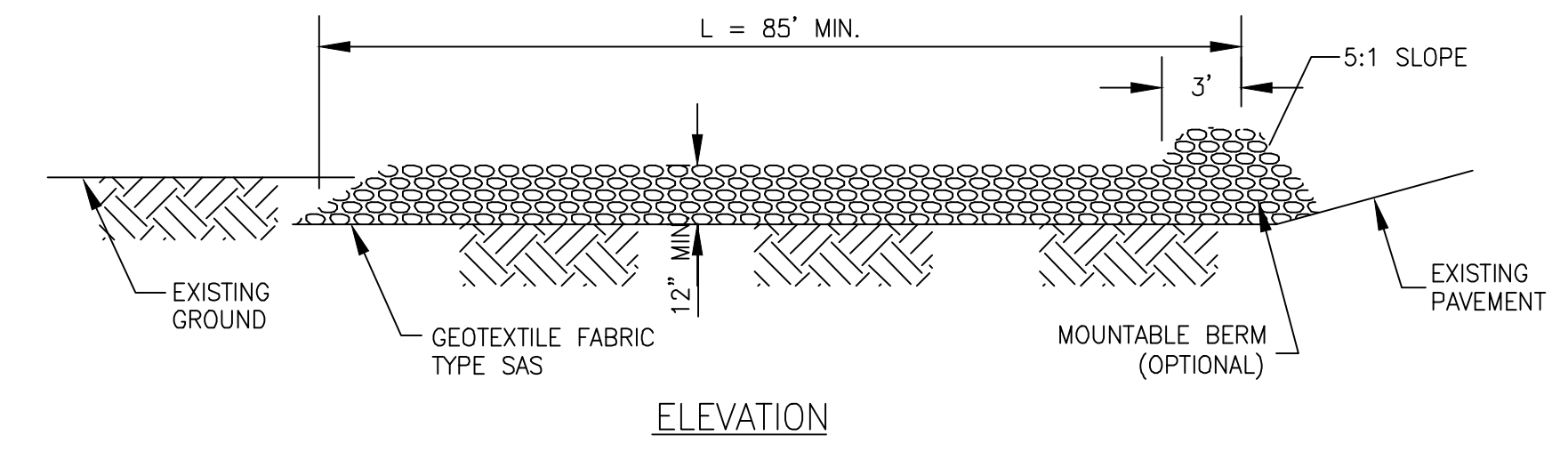
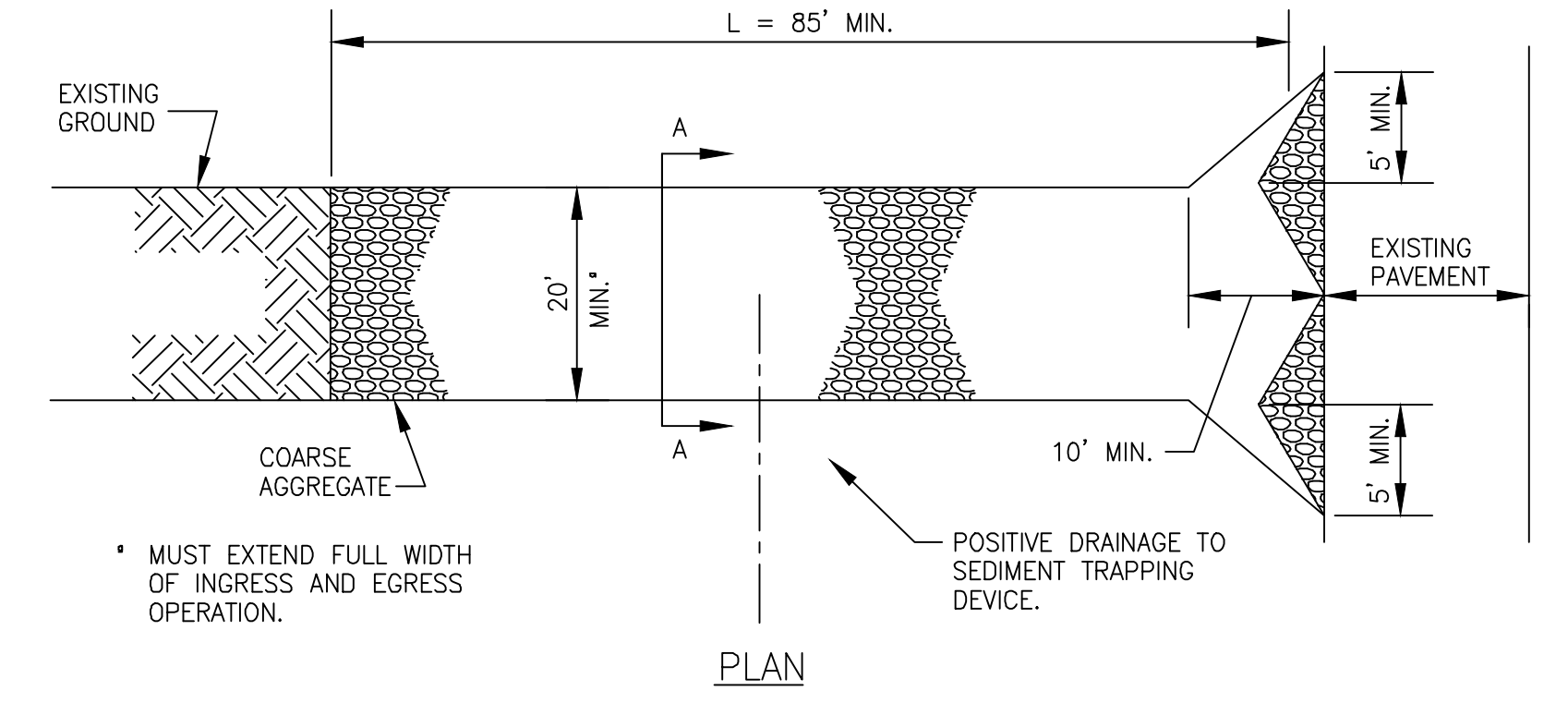
BENCHMARK

PUMPING STATION 15 BENCHMARK:
ON NORTHWEST CORNER OF PUMPING STATION 15 FOR MMSD AT MARSHALL PARK
ON ALLEN BOULEVARD - EL. 865.25'



SECTION
ELEVATION
SILT FENCE DETAIL
NO SCALE

NOTE:
SILT FENCE INSTALLATION SHALL
COMPLY WITH AASHTO STANDARD
SPECIFICATION 288-00.



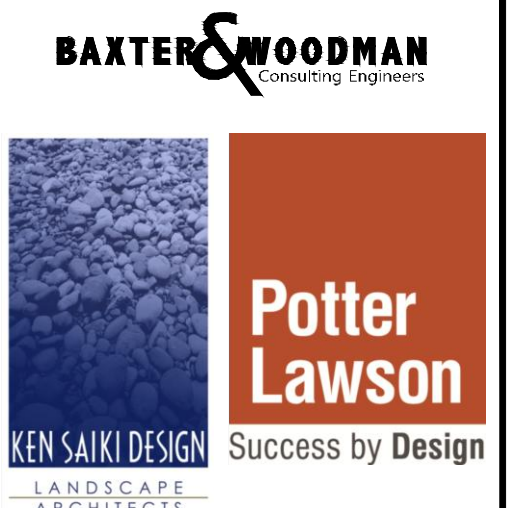
PLAN
ELEVATION
SECTION A-A
STABILIZED CONSTRUCTION ENTRANCE
SCALE: NONE

GENERAL NOTES:
1. AGGREGATE SHALL BE 3 TO 6 INCH CLEAR OR WASHED STONE WITH ALL MATERIAL RETAINED ON 3-INCH SIEVE.

SEDIMENTATION AND EROSION CONTROL NOTES

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE.
- TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN 15 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE. PERMANENT STABILIZATION SHALL BE DONE WITHIN 15 DAYS AFTER COMPLETION OF FINAL GRADING OF THE SOIL.
- ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED, OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION.

CONSULTANTS



LANDSCAPE ARCHITECTS

| NO. | DATE | DESCRIPTION |
|-----|----------|--------------------|
| | 12/18/15 | LAND USE SUBMITTAL |

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWING

| PLAN SHEET DESIGNATION | |
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| SCALE: | AS NOTED |
| DRAWING DATE: | |
| DESIGNED BY: | JWM |
| DRAWN BY: | TLB |
| CHECKED BY: | JEK |

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MADISON, WISCONSIN

Madison Metropolitan Sewerage District

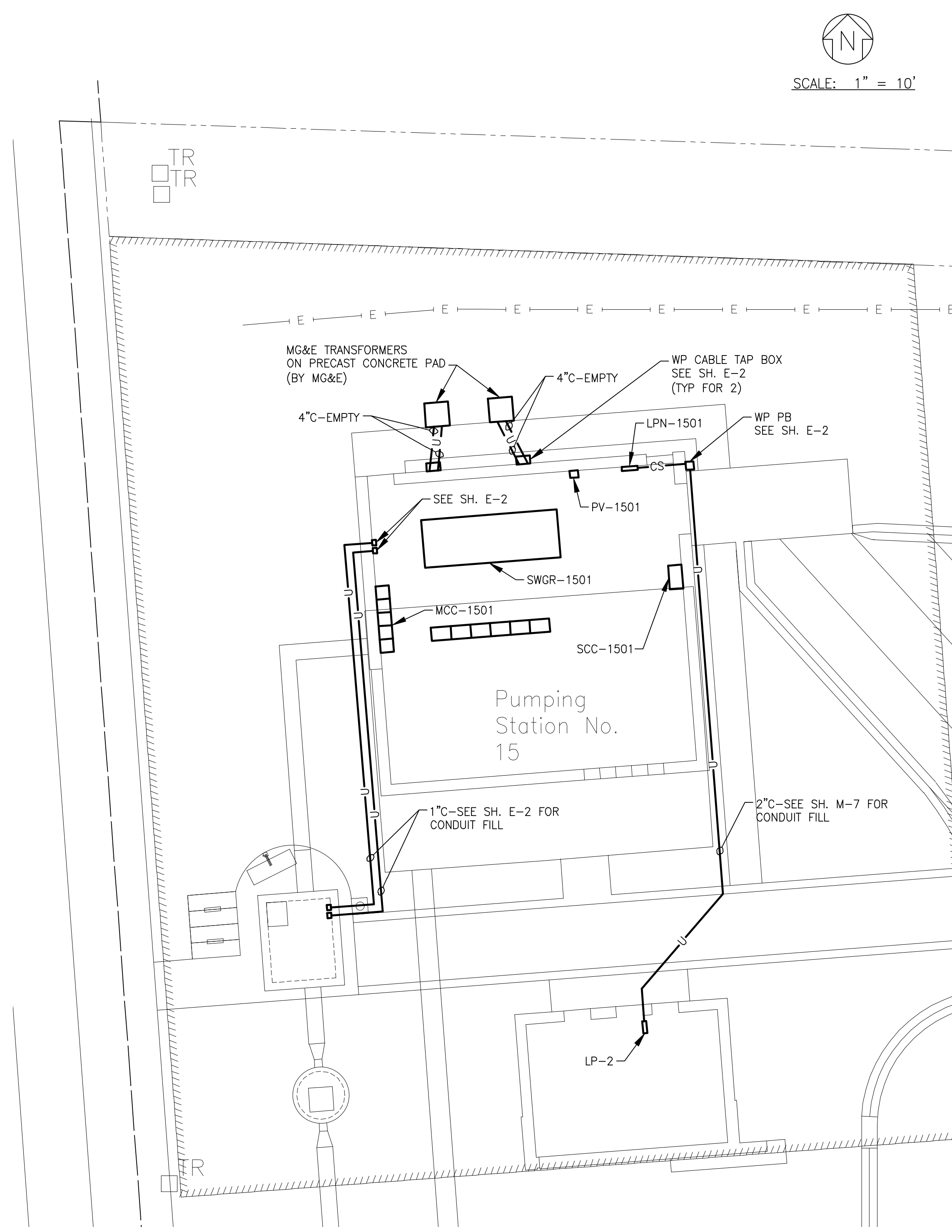
PUMPING STATION 15 REHABILITATION

SHEET TITLE
SITE PLAN & EROSION CONTROL PLAN

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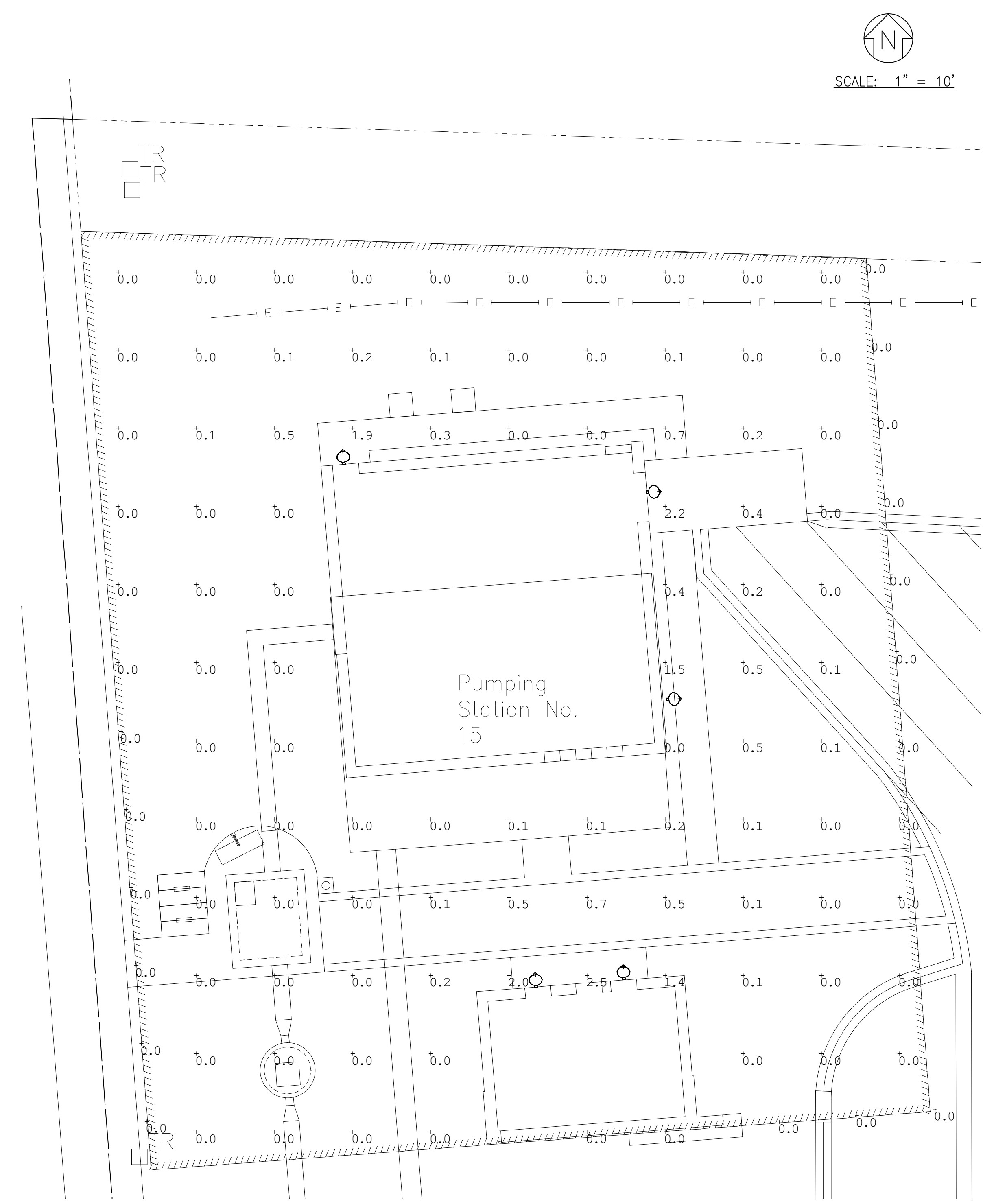
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ELECTRICAL SITE PLAN

SCALE: 1" = 10'

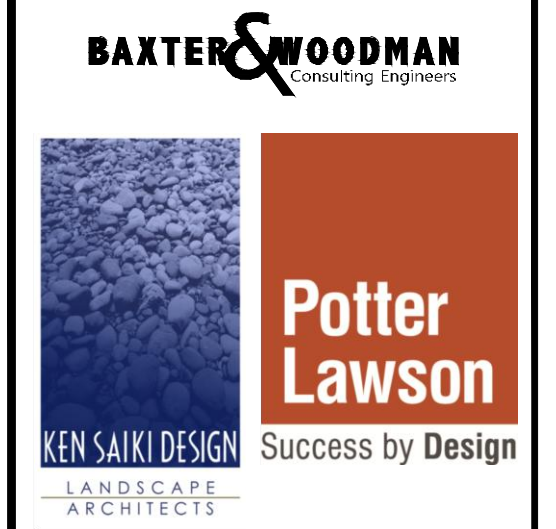


SITE LIGHTING CALCULATIONS

NOTE:
 1. COORDINATE INSTALLATION OF NEW ELECTRICAL SERVICE WITH MG&E.

NOT FOR BIDDING

CONSULTANTS



| NO. | DATE | DESCRIPTION |
|-----|----------|--------------------|
| | 12/18/15 | LAND USE SUBMITTAL |

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWING

PLAN SHEET DESIGNATION

| | |
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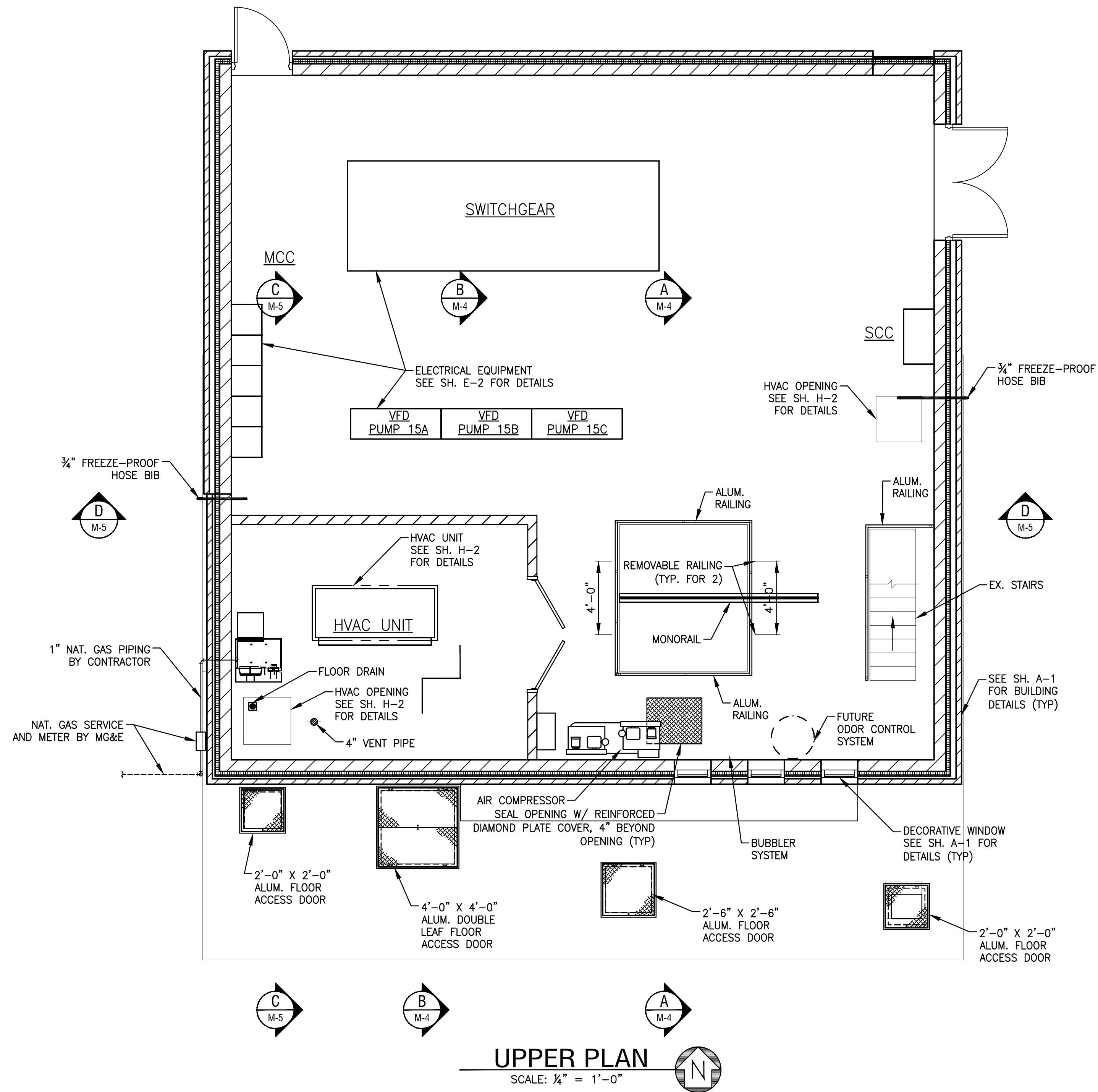


**PUMPING STATION 15
 REHABILITATION**

SHEET TITLE
**ELECTRICAL SITE PLAN
 AND SITE LIGHTING CALCULATIONS**

C-6
 8 OF 59

I:\BURLINGTON\MAVSD\140963-PS 15\CADD\DRAWINGS\DWG\PUMPING STATION 15\SHEETS\UPPER PLAN - MECHANICAL.DWG 30 UPPER PLAN - MECHANICAL
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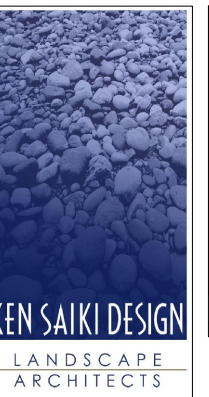


UPPER PLAN
 SCALE: 1/4" = 1'-0"

NOTE:
 ALL FLOOR ACCESS DOORS TO BE FLUSH WITH NEW CONCRETE FLOOR TOPPING.

CONSULTANTS

BAXTER & WOODMAN
 Consulting Engineers



Potter Lawson
 Success by Design

| NO. | DATE | DESCRIPTION |
|---|----------|--------------------|
| | 12/18/15 | LAND USE SUBMITTAL |
| ** REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWING | | |

PLAN SHEET DESIGNATION

| | |
|-------|-----------------|
| COVER | GENERAL |
| G | CIVIL |
| L | LANDSCAPING |
| D | DEMOLITION |
| A | ARCHITECTURAL |
| S | STRUCTURAL |
| M | MECHANICAL |
| P | PLUMBING |
| H | HVAC |
| E | ELECTRICAL |
| I | INSTRUMENTATION |

| | |
|---------------|----------|
| PROJECT NO: | 140963 |
| SCALE: | AS NOTED |
| DRAWING DATE: | |
| DESIGNED BY: | JWM |
| DRAWN BY: | TLB |
| CHECKED BY: | JEK |

CLIENT
MADISON METROPOLITAN SEWERAGE DISTRICT
MADISON, WISCONSIN

PUMPING STATION 15
 Madison Metropolitan Sewerage District

PUMPING STATION 15 REHABILITATION

SHEET TITLE
UPPER PLAN - MECHANICAL

M-3

38 OF 59

NOT FOR BIDDING