



*City of Lake Geneva, 626 Geneva St, Lake Geneva, WI 53147- 262.248.3673- [www.cityoflakegeneva.gov](http://www.cityoflakegeneva.gov)*

**CITY OF LAKE GENEVA PUBLIC WORKS COMMITTEE**  
**MONDAY, NOVEMBER 28, 2022 - 4:00 PM**  
**LAKE GENEVA CITY HALL; COUNCIL CHAMBERS (MAIN LEVEL)**

**Members:**

Chairperson John Halverson, Mary Jo Fesenmaier, Rich Hedlund, Tim Dunn, and Joan Yunker

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**AGENDA**

1. Meeting called to order by Chairperson Halverson
2. Roll Call
3. Approval of the minutes
4. Comments from the public limited to 5 minutes, limited to items on this agenda
5. Director of Public Works Report
  - a. Update Kapur: Center Street Culverts & Intersection Safety
  - b. Update MSA: 2022 Streets Project & Road Paving Program Pine Tree Ln. and Mariane Terrace
6. ADA Compliance Report
7. Parking Manager Report
8. Discussion of Hauled Waste Receiving Facility Project per Ordinance 78-8(5).
9. Discussion / Recommendation Pedestrian accommodations between Curtis Street and Edwards Drive/STH 120

*The recommendation on item number D 2. the city agrees with WisDOT to construct a 5 FT. concrete sidewalk, required curb and gutter, storm sewer, and any needed real estate acquisition. WisDOT agrees to pay \$134,000 for this item with the remainder to be paid by the city. The estimate for this section is \$167,000. Ald. Fesenmaier motioned to move letter D to the October Public Works meeting, second*

*Ald. Halverson. The motion failed 2-3. Ald. Hedlund motioned to instruct WisDOT to construct a 5 FT. concrete sidewalk, second by Ald. Dunn. Motion 4-1. No Ald. Fesenmaier.*

**10. Discussion / Recommendation repair of multi-use path by the YMCA**

**11. Discussion / Recommendation to create safer beach access i.e. wheelchairs, strollers at the Riviera end**

**12. Future Agenda Items**

**13. Adjournment**

*This is a meeting of the Public Works Committee. No official Council action will be taken; however, a quorum of the Council may be present.*

**CITY OF LAKE GENEVA PUBLIC WORKS COMMITTEE MINUTES**  
**MONDAY, OCTOBER 24, 2022 - 4:00 PM**  
**LAKE GENEVA CITY HALL; COUNCIL CHAMBERS (MAIN LEVEL)**

**Members:** **Members:** Chairperson John Halverson, Mary Jo Fesenmaier, Rich Hedlund, Tim Dunn, and Joan Yunker

Meeting called to order by Chairperson Halverson

Meeting was called to order by Chairperson Halverson at 4:00 pm

Roll Call

**Present:** Ald. Fesenmaier, Ald. Hedlund, Ald. Dunn, Ald. Yunker, and Ald. Halverson

Comments from the public limited to 5 minutes, limited to items on this agenda

Joe Carter - 725 Pine Tree Ln. spoke in opposition to item number 10, the 2022 Road Paving Program and corresponding watermain replacement project on Pine Tree Ln. and Mariane Terrace. He would like there to be another public meeting for the residents' per the prior months minutes as he's not an engineer and didn't understand the letter and drawing that was mailed. He asked the committee to delay the decision one month and ask the engineer to address it as a public hearing.

Ann Esarco - 960 Lake Shore Drive & Pine Tree Ln. She appreciates all that DPW does for the city. She referenced item number 10 and noted that there was an ambulance that had to go down Pine Tree Lane and she believed it had been stuck. She suggested there be a cull de sac or turn around taken into consideration for emergency purposes.

Peggy Schneider - 245 Lookout Dr. She requested consideration for navigation connections being made connecting middle and high schools to downtown and she's trying to ensure that the intersection is addressed to include ADA sidewalks to grocery stores without obstacles, i.e. Piggly Wiggly & Walmart.

Stacey Smithm -14876 Rockridge Ln. – Expressed her opposition to the traffic signal at Center St., the date/timing that the traffic study was conducted, and the 2003 impact analysis report recommended despite the Stonebridge development. She also stated that there was no information provided on the second access point, and expressed concern that people cannot safely cross that road.

Brian Pollard of Fairwyn Development – He spoke regarding the traffic study in 2003 and noted to take into account that it used to be bypass 120 with all of the trucks and other traffic. The reason they didn't put in the traffic light is because they knew the bypass was coming in.

Approval of the minutes

Ald. Hedlund motioned to approve the September 26, 2022 Public Works Committee minutes, seconded by Ald. Halverson. Motion carried 5-0.

Public Works Report

a. Update Center Street Culverts (Kapur)

b. Update on Traffic Signal on Edwards Blvd. & Bloomfield Rd. (Kapur)

c. Update 2022 Streets Project (MSA)

d. Update on WisDOT SH 120 (DPW)

5a&b. Kapur representative, Rausch hopes to have something more for the November meeting. She's had conversations with the Town of Bloomfield & the contractor regarding the construction.

5c. MSA representative, DeYoung is still working on the 2022 program punchlist i.e. there are still some broken curb and gutter issues that have a one-year warranty if anything fails. The main goal is removing the black silk

before the snow.

Ald. Fesenmaier asked DeYoung specifically to the East if they'd be filled in on Center St. grass or gravel. DeYoung stated it would match in with soil, but cannot be done with asphalt. If there's a lip and purpose, you could put in soil.

5d. Per Dir. Earle stated the WisDOT project is five to six years out regarding the crosswalk and mentioned Park Dr. issues when turning into Taco Bell.

#### ADA Compliance Report

Update: Super Intendent replaced ADA ramp at SW corner of George & Williams.

The current ADA updates were placed in the packet from both Kapur & MSA. Dir. Earle stated that there may not be a report every month, but as the engineers address ADA work, it will be placed in the packet.

#### Parking Manager Report

Parking Manager Elder stated sales by day were on page 25 of the packet. Kiosk revenue was \$158,000 which is a little lower than the last two. Coin was at 1.4%, kiosks were at 73.7%, and mobile app was at 24%. Overall, approx. \$22K to the positive. Elder will be coordinating a discussion group (two members from the City Hall Staff, two members from the BID, a resident of the city, and Ald. Yager) to meet every other week with the goal of looking for alternatives or to find longer sustainability for parking. The first meeting will be held on November 1st in either 2A or 2C.

#### Discussion / Recommendation month to month waived parking fees (**Parking**)

Continued from 8-22-22 & 9-26-22 PWC with request for the Parking Manager to bring back policy options at future PWC meeting.

Ald. Fesenmaier motioned to move this item to the October PWC meeting, seconded by Ald. Halverson. Motion carried 5-0.

Parking Manager, Elder shared a spreadsheet outlining parking fee options for the city's event permits. Ald. Fesenmaier stated she would like the application to be reviewed. Discussion ensued after Ald. Hedlund stated he believes the city needs to incorporate a Premiere Resort Tax so we aren't put in these financial situations. This would require the State representatives to be involved. Ald. Hedlund stated that the city struggles to pay for infrastructure due to the influx of tourism and this would be a solution. Ald. Hedlund stated 42% of the sales tax for the county comes from the City of Lake Geneva and it's not too late to put on for the April election. Ald. Fesenmaier pointed out that the former Administrator Oborn was successful in coordinating a non-binding Premiere Resort Tax referendum that was sent to the legislature and sent back as binding in Rineland. No action was taken.

#### Discussion / Recommendation City Engineering (**City Administrator**)

\*Written approval of Kapur & Assoc. was provided from all three City departments at the 8/22/22 PWC

Meeting: Waiting on a motion to approve retaining Kapur & Associates as the City of Lake Geneva's primary engineering firm for the Department of Public Works, Building & Zoning, and the Utility Commission with latitude to contract with other firms as may be necessary, without conducting additional request for proposals. Continued from 9/26/22 PWC.

Ald. Hedlund motioned to approve retaining Kapur & Associates as the City of Lake Geneva's primary engineering firm for the Department of Public Works, Building & Zoning, and the Utility Commission, with latitude for all to contract with other firms as may be necessary, without conducting additional request for proposals, seconded by Ald. Fesenmaier. Motion carried 5-0.

#### Discussion / Recommendation 2022 Road Paving Program and corresponding watermain replacement project on Pine Tree Ln. and Mariane Terrace, per Ordinance 78-8(5.) (MSA)

Wrigley Drive & Cook Street and Pine Tree Lane & Marianne Terrace Improvements. Continued from 9/26/22 PWC.

Ald. Hedlund motioned to include MSA Engineer representative, Joe DeYoung in the discussion, seconded by Ald. Fesenmaier. Motion carried 5-0.

DeYoung outlined that the first public information meeting was to gain input, and this second public information meeting proposed was for once the contractor is hired, i.e. to reference details for impact on parking, mailboxes, water, garbage pick-up etc. This will maybe take place end of January or the beginning of February of 2023 in order to be ready for spring construction. Director Earle invited the Director of Utilities, Gajewski to join the group for discussion.

Ald. Hedlund motioned to open the agenda item to the public for discussion, seconded by Ald. Hedlund. Motion carried 5-0.

Chip & Wendy Pike, 924 Mariane Terrace expressed concern regarding three homes that have asphalt to the easement and in the proposed plans it's no longer there and it's been there for the last 30 years. He would like it to remain as he believes it would keep the value and property taxes where they currently are and hopes there is a way to work together. Ald. Fesenmaier stated her concern that this may pre-date any kind of change we made, and secondly, the Building Inspector has been out (at least in District 2) looking at these areas and suggested that the owner pursue a variance (not to stop the process of being bid out), but she thinks it's worth researching to see if this property pre-dated any kind of change we made in off street parking. Ald. Hedlund stated the agenda item is regarding approving the paving program and the topic being referenced is ancillary. Ald. Hedlund motioned to approve the 2022 road paving program and corresponding watermain replacement project on Pine Tree Ln. and Mariane Terrace, per Ordinance 78-8(5.) (MSA), seconded by Ald. Halverson.

Ald. Fesenmaier heard there's concern regarding curbs and gutters for residences on Pine Tree Ln. and she believes there's still room to address other concerns with driveway approaches and such. DeYoung said he's really working to get the bids out so the project will be awarded between Thanksgiving & Christmas so the work doesn't linger beyond Memorial Day. Ald. Fesenmaier stated that it could move forward because residents would have the ability to apply for a variance. DeYoung stated that they needed to address the capacity for storm water. Director Earle stated we could ask MSA to put the parking areas as an alternate so you could get the bid moving.

Ald. Fesenmaier amended the original motion to include adding parking as an alternate to the bid, seconded by Ald. Hedlund. Motion carried 5-0.

DeYoung stated there was discussion about proving cull de sacs as the conversation from Pine Tree to Marianne has a large area and it's being reduced for the ability to create some control of the storm water and personal storage as well. Director Earle pointed out that there's a huge grade issue down at the end of Marianne Terrace. DeYoung also addressed the concern regarding the grade drop on South Shore to Pine Tree and ADA compliance can be accomplished as well and the committee did work with him to try to acquire easements in order to raise the road. Residents spoke to address concerns about driving from downtown and that a car would need to make a u turn in order to get down Pinetree Ln.- The same thing would occur if you were driving up north you'd-go to have to make a u turn. Another concern is the width of the streets and we cannot determine from the letter sent what minimally means it includes or not includes the curb. If widened, the streets will remove trees. Director Earle suggested the committee look at the map as the contractor would have to go into the intersection per WisDOT standards requirements. DeYoung had the map in the packet brought up to address concerns and stated that he provided his phone number in the letter sent to residents and asked that they contact him directly so he could address their concerns. Ald. Fesenmaier stated that the lift project is not included. Director Gajewski stated that it's not a determining fact, and will be addressed at the commission meeting.

Discussion / Recommendation WisDOT review the functional classification of roadways within the Urban Area  
Item continued from 9-26-22 PWC.

Director Earle indicated there were two items relevant to the Public Works Committee to address - Baker St. & S. Lake Shore Dr. recommending approving the changes from WisDOT. Ald. Hedlund asked what difference it would make. Director Earle stated it was a house cleaning and it wouldn't make much of a difference. Ald. Hedlund asked if it wouldn't have any effect on funding. Director Earle stated he would do research before it's sent to FLR.

Ald. Hedlund motioned to approve, seconded by Ald. Halverson. Motion carried 5-0.

Discussion / Recommendation Expansion of STH 50 between Curtis Street and Edwards Blvd/STH 120  
Item moved from 9-26-22 PWC Meeting.

Director Earle stated last month the state said they would not pay for this item due to traffic counts, so it would be up to the city if we want to do this.

Ald. Fesenmaier clarified that this item was the expansion of the roadway from 3 to 4 lanes. Dir. Earle stated that was correct. Ald. Fesenmaier pointed out that at last month's PWC meeting the committee selected a pathway based on it being privately owned which now it may not be and asked for the approved item to be brought back to the next meeting. Ald. Halverson granted the item be added back to next month's agenda. No action taken.

Discussion / Recommendation on Traffic signals: Townline, Center Street, Grant Street (Ald. Fesenmaier)  
Continued from Aug. 22 & Sept. 26, 2022 PWC Meeting.

Ald. Fesenmaier asked for a spreadsheet of intersections with suggested solutions be created for a broader look at

engineers options for the city.  
No further action taken.

Discussion/Action regarding fence on City property along Lake Geneva Boulevard parallel to the Kwik Trip #1520 sidewalk (Agenda Item requested by Ald. Fesenmaier) 9-12-22 Council Mtg. - Motion by Fesenmaier to approve the installation of this fence at no cost to the City, second by Halverson. Mayor Klein offered that an alternative could be the placement of a bike rack versus a split rail fence. Hedlund stated that this should be before the Public Works Committee. Halverson noted that this would be on the next Public Works Committee agenda. Kwik Trip will also install bollards on their property, inside of the fence. Continued from 9-26-22 PWC.

Ald. Fesenmaier noted there are two short sidewalks that end nowhere, and previous to the change at Kwik Trip there was a split rail fence that prevented bicycles from cutting through, so there was no barrier to discourage bikes from going straight out onto the street.

Ald. Fesenmaier motioned to have two end of road signs installed, seconded by Ald. Halverson. Motion carried 5-0.

#### Discussion / Recommendation repair of multi-use path by YMCA

Kapur stated the only change for repair would be the cost, since the numbers were from 2020 and she thinks it would increase approximately 20%. Dir. Earle recommended limestone vs. repair, so the city isn't in the same situation again. Ald. Fesenmaier would like to see options. Dir. Earle was instructed by committee in a prior meeting not to repair and stay off the road. The fence was a large portion of the cost as a retaining wall per Kapur.

Ald. Fesenmaier would like to see this on the agenda and what options exist. Ald. Fesenmaier moved to continue this item with additional options, seconded by Ald. Halverson. Motion carried 5-0.

#### Future Agenda Items

Sidewalk Assessment

Special Sidewalk Assessments

#### Adjournment

Ald. Halverson motioned to adjourn at 5:45 pm, seconded by Ald. Hedlund. Motion carried 5-0.



# City of Lake Geneva

Department of Public Works

1065 Carey St.

Lake Geneva, WI 53147

262.248.6644

**To:** Public Works Committee  
**From:** Tom Earle, Director, Public Works  
**RE:** November 2022 Director's Report

## OPERATIONS UPDATE

### **PUBLIC WORKS OPERATIONS**

Leaf & Brush pick-up has been busy and will run until November 23rd. Please see the city's [webpage](#) for all rules and details. The entire DPW staff attended the Salt-Wise Training, an ongoing learning series that focuses on the application rates and timing for salt.

We have begun the process of winterizing and closing restrooms in the following locations: Cobb & Seminary Park, Dunn Field, the Lion's Den at Vet's Park. The west-end restrooms will remain open until the lake is frozen. The Library restrooms will remain open until Dec. 1st, and the Chamber restrooms will remain open all year.

### **PUBLIC WORKS OFFICE & ADMINISTRATION**

DPW hosted the Walworth County Public Works Engagement Meeting on the 16th of November at the Riviera.



DPW has been in contact with WisDOT regarding the Carbon Reduction Program Grants, and we were informed not to expect answers until mid-year 2023. We continue to work with the City Engineer and the Utility Director regarding issues in the Vistas and Stoneridge developments.

## Memo to City of Lake Geneva

**To:** Tom Earle, Director of Public Works      **Date:** November 9, 2022

**From:** Naomi Rauch, P.E.  
262-758-6032

**CC:** Nan Elder, City of Lake Geneva

**Subject:** Kapur Updates – November PWC

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### ***Center Street Culvert***

Additional survey information has been gathered. The culvert cross-sections have been determined and hydraulic analysis has been completed. We are considering lining options and preparing design plans for staff review prior to permit submittals.

### ***Intersection Evaluations***

At the October PWC meeting, Kapur was asked to provide a high-level evaluation for 4 intersections within the City. A table has been prepared to summarize the existing conditions, preliminary evaluation data and possible improvements for each intersection. A formal intersection evaluation would include gathering of the required crash data, traffic movements, and other data to determine the feasibility of each alternative. See attached table.

### ***YMCA Bike Path***

October PWC meeting included a cost estimate from 2020 detailing drainage improvements and 3" HMA repaving of 1500-ft of existing bike path from Darwin Street to the YMCA. The commission was interested in the comparison for the same 1500-ft reconstructed with 4-inches of 3/8" limestone instead of asphalt. The limestone option would result in an initial savings of approximately \$27,500; however, limestone paths require more maintenance than asphalt paved paths.

1500-ft of 3" asphalt path = \$302,501 \*

1500-ft of 4" limestone path = \$275,020 \*

\*Both options include removal of existing asphalt, drainage, guard fence, retaining wall, and restoration.



| <b>Intersection</b>                | <b>Townline Rd /<br/>Edwards Blvd.<br/>1</b>                                                     | <b>Center St. /<br/>Interchange N.<br/>2</b>                                                    | <b>Grant St. /<br/>Williams St.<br/>3</b>                                                                    | <b>George St./<br/>Gardner St. /<br/>Williams St.<br/>4</b>                           |
|------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Existing Conditions</b>         |                                                                                                  |                                                                                                 |                                                                                                              |                                                                                       |
| <b>Signal</b>                      | No                                                                                               | No                                                                                              | No                                                                                                           | No                                                                                    |
| <b>Stop Sign</b>                   | E/W Approach                                                                                     | N/S Approach                                                                                    | West Approach                                                                                                | East Approach                                                                         |
| <b>Flashing Beacon</b>             | No                                                                                               | No                                                                                              | No                                                                                                           | No                                                                                    |
| <b>Crosswalks</b>                  | Marked cross walk on North and West Leg, Advanced Pedestrian Crossing Signs                      | South leg                                                                                       | North and West legs                                                                                          | Between George/Gardner and East/West legs                                             |
| <b>Sidewalks</b>                   | Partial                                                                                          | Partial                                                                                         | Full                                                                                                         | Full                                                                                  |
| <b>Preliminary Evaluation Data</b> |                                                                                                  |                                                                                                 |                                                                                                              |                                                                                       |
| <b>Crash Data Map</b>              | Obtain Crash Data from TOPS Lab and Lake Geneva PD                                               | Obtain Crash Data from TOPS Lab and Lake Geneva PD                                              | Obtain Crash Data from TOPS Lab and Lake Geneva PD                                                           | Obtain Crash Data from TOPS Lab and Lake Geneva PD                                    |
| <b>Traffic Volumes Obtained</b>    | 10,200 AADT (2018) on STH 120 South of Townline; 2,600 AADT (2009) on Townline East of Curtis ST | 11,600 AADT (2018) on Interchange N of Sage; 2,200 AADT (2018) on Center Btwn Rogers and Walker | 5,900 AADT (2018) on Williams between Rogers and Gardner; 3,500 AADT (2015) on Grant East of Elkhorn Lake Rd | 5,900 AADT (2018) on Williams between Rogers and Gardner; No WisDOT counts on Gardner |
| <b>ROW/Environmental Impacts</b>   | WisDOT controlled                                                                                | ½ Town                                                                                          | Limited ROW available                                                                                        | Limited ROW available, narrow terrace                                                 |
| <b>Comments</b>                    | WisDOT controlled. Wis DOT will evaluate.                                                        | Signal Warrant by County: not warranted                                                         | Curve and wide lanes affect traffic flow, need to evaluate stopping sight distance                           | None                                                                                  |
| <b>Improvement Options</b>         |                                                                                                  |                                                                                                 |                                                                                                              |                                                                                       |
| <b>All Way Stop</b>                | N/A                                                                                              |                                                                                                 | Evaluate warrants after turning movement counts taken                                                        | Evaluate warrants after turning movement counts taken                                 |
| <b>Signal</b>                      | Perform Counts and Warrant Analysis                                                              | No                                                                                              | Likely not enough volume to warrant                                                                          | Likely not enough volume to warrant                                                   |

| <b>Intersection</b>                   | <b>Townline Rd /<br/>Edwards Blvd.<br/>1</b>                                             | <b>Center St. /<br/>Interchange N.<br/>2</b>                                                                                                               | <b>Grant St. /<br/>Williams St.<br/>3</b>                                                                                                                                                                                                        | <b>George St. /<br/>Gardner St. /<br/>Williams St.<br/>4</b>                                                                                                                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flashing Beacons /<br/>Signage</b> | N/A<br> | N/A – no cross<br>walk on<br>uncontrolled legs                                                                                                             | Possibly on<br>uncontrolled leg,<br>evaluate<br>stopping sight<br>distance for<br>southbound<br>traffic                                                                                                                                          | Possibly on<br>uncontrolled leg                                                                                                                                                                                                                                                                 |
| <b>Crosswalks</b>                     | Add detectable<br>warning fields                                                         | Straighten<br>crosswalk and<br>updated<br>detectable<br>warning fields,<br>widen sidewalk<br>that has no<br>terrace on the<br>west side of<br>intersection | Replace curb<br>ramps and<br>detectable<br>warning fields,<br>Crosswalk<br>crossing North of<br>Grant should be<br>moved to south<br>leg of<br>intersection to<br>be out of the<br>curve and both<br>sides of<br>crosswalk should<br>have a ramp | Replace curb<br>ramps and<br>detectable<br>warning fields,<br>eliminate Type 1<br>Ramps                                                                                                                                                                                                         |
| <b>Geometric<br/>Improvements</b>     | Shift crosswalk<br>farther north and<br>reconstruct<br>median to provide<br>refuge       | Install sidewalk<br>on north side or<br>on Center St.                                                                                                      | Check sight<br>distance,<br>consider<br>realigned north<br>leg of Williams<br>to enter closer<br>to 90 degrees<br>possibly could be<br>done just<br>through<br>pavement<br>marking                                                               | Add curb bump-<br>outs at crossing<br>across Williams,<br>shorten radius in<br>the SW quadrant<br>– shortens<br>crosswalk<br>distance and<br>ensures vehicles<br>stop completely<br>before making a<br>right turn onto<br>Williams;<br>connect sidewalk<br>on George<br>directly to the<br>ramp |
| <b>Roundabout</b>                     | WisDOT could<br>evaluate                                                                 |                                                                                                                                                            | N/A limited<br>space                                                                                                                                                                                                                             | N/A limited<br>space                                                                                                                                                                                                                                                                            |



**Joe DeYoung**

MSA Professional Services, Inc.

### **Update on 2022 Streets Project**

Both Marianne Terrace and Wrigley Drive will be bid out to be awarded for the January PWC meeting.

**CITY OF LAKE GENEVA**  
**PARKING SALES BY DAY - OCT**

|        | CASH            | CREDIT<br>CARD    | TOTAL             |
|--------|-----------------|-------------------|-------------------|
| 1-Oct  | 132.9           | 9874.39           | 10,007.29         |
| 2-Oct  | 73.1            | 6155.85           | 6,228.95          |
| 3-Oct  | 71.4            | 2865.44           | 2,936.84          |
| 4-Oct  | 73.05           | 3126.48           | 3,199.53          |
| 5-Oct  | 120.7           | 3611.64           | 3,732.34          |
| 6-Oct  | 95.75           | 2538.27           | 2,634.02          |
| 7-Oct  | 102.8           | 4525.54           | 4,628.34          |
| 8-Oct  | 114.4           | 9841.75           | 9,956.15          |
| 9-Oct  | 81.55           | 9491.38           | 9,572.93          |
| 10-Oct | 111.3           | 5506.07           | 5,617.37          |
| 11-Oct | 94.95           | 3035.96           | 3,130.91          |
| 12-Oct | 81.4            | 1662.81           | 1,744.21          |
| 13-Oct | 58.05           | 2685.72           | 2,743.77          |
| 14-Oct | 129.4           | 4556.88           | 4,686.28          |
| 15-Oct | 87.9            | 9376.82           | 9,464.72          |
| 16-Oct | 55.7            | 6012.41           | 6,068.11          |
| 17-Oct | 49.55           | 1912.39           | 1,961.94          |
| 18-Oct | 42.2            | 1809.37           | 1,851.57          |
| 19-Oct | 47.55           | 2139.47           | 2,187.02          |
| 20-Oct | 123.05          | 2663.34           | 2,786.39          |
| 21-Oct | 112.4           | 6464.47           | 6,576.87          |
| 22-Oct | 113.5           | 11792.01          | 11,905.51         |
| 23-Oct | 95.35           | 9941.01           | 10,036.36         |
| 24-Oct | 102.3           | 3028.84           | 3,131.14          |
| 25-Oct | 50.1            | 1256.78           | 1,306.88          |
| 26-Oct | 99.65           | 1909.03           | 2,008.68          |
| 27-Oct | 84.95           | 2258.54           | 2,343.49          |
| 28-Oct | 108.1           | 4058.32           | 4,166.42          |
| 29-Oct | 93.65           | 8007.31           | 8,100.96          |
| 30-Oct | 81.1            | 5062.67           | 5,143.77          |
| 31-Oct | 64.85           | 1355.51           | 1,420.36          |
|        | <u>2,752.65</u> | <u>148,526.47</u> | <u>151,279.12</u> |

Net of Tax 143,392.53

|            |                   |             |
|------------|-------------------|-------------|
| Coin       | 2,752.65          | 1.3%        |
| CC         | 148,526.47        | 72.0%       |
| Parkmobile | 55,094.00         | 26.7%       |
|            | <u>206,373.12</u> | <u>100%</u> |

|      |            |
|------|------------|
| 2021 | 133,885.51 |
| 2020 | 111,639.42 |
| 2019 | 119,230.09 |
| 2018 | 122,543.84 |

|               |            |
|---------------|------------|
| AVG 2019-2021 | 121,585.01 |
| OVER (UNDER)  | 21,807.52  |

PARKMOBILE

|      |           |           |
|------|-----------|-----------|
| 2022 | 55,094.00 | 52,221.80 |
| 2021 | 47,026.50 | 44,574.88 |
| 2020 | 15,742.65 | 14,921.94 |
| 2019 | 8,351.42  | 7,916.04  |
| 2018 | 5,456.16  | 5,171.72  |
| 2017 | 2,666.82  | 2,527.79  |

|                 |            |
|-----------------|------------|
| 2021 PM + Kiosk | 178,460.39 |
| 2020 PM + Kiosk | 126,561.36 |
| 2019 PM + Kiosk | 127,146.13 |
| 2018 PM + Kiosk | 127,715.55 |

|               |            |
|---------------|------------|
| AVG 2019-2021 | 144,055.96 |
| OVER (UNDER)  | 51,558.37  |

**Sec. 78-8. Committee powers and duties. [Ord. No. 08-02, 3-10-2008; amended 3-13-2017 by Ord. No. 17-04]**

The Utility Commission shall have the duties and powers as set forth in W.S.A. § 66.0805, including those described below:

- (1) Meeting. The Utility Commission shall meet at least quarterly. The Commission may meet as necessary, or as called by the President or as called by a majority of the Commission. The City Clerk shall create and post all agendas for this committee.
- (2) Duties. The Utility Commission shall have the entire charge, management and direction of the water and sewer utilities of the City. The duties of the Utility Commission shall include, but shall not be limited to:
  - a. Recommending utility ordinance amendments;
  - b. Refining development plans;
  - c. Reviewing and making recommendations on proposed improvements, additions, extensions, or changes to the facilities;
  - d. Discussing issues of safety, function, maintenance needs, and policy;
  - e. Planning for the effectuation of plant and infrastructure improvements;
  - f. Other planning the Commission deems necessary and essential for the improvement of the plant; and
  - g. Establishing water and sewer rates as prescribed by state statutes and administrative rules.
- (3) Employees. The Commission may employ a manager or superintendent of utilities and may fix the compensation to be paid. The City Engineer may be engaged by the Commission. The Commission may employ other necessary employees and fix the compensation.
- (4) Rules. The Commission shall make necessary rules to govern its own proceedings and the government of the Utility Department.
- (5) Construction work. The Commission shall immediately supervise any utility construction work. Notwithstanding the foregoing, any construction exceeding the sum of \$250,000 shall be reviewed by the Public Works Committee and must be approved by the City Council. No sewer and water extensions beyond City limits are permitted unless specifically authorized by the City Council.
- (6) Utility receipts shall be paid to a bonded cashier appointed by the Utility Commission and turned over to the City Treasurer monthly. Departmental expenditures shall be audited by the Utility Commission and, if approved by the President and Secretary of the Utility Commission, shall be paid by the Comptroller for the City.



# Lake Geneva Utility Commission

Dennis Lyon, President  
Josh Gajewski, Utility Director

Jeff Ecklund, Water Superintendent  
Ken Bauman, Wastewater Superintendent

361 W. Main Street P.O. Box 187 Lake Geneva, WI 53147 Phone (262) 248-2311  
[www.lgutilitycommission.com](http://www.lgutilitycommission.com)

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TO: Public Works Committee  
FROM: Josh Gajewski, Utility Director  
SUBJECT: Hauled Waste Receiving Facility Improvements  
DATE: November 9, 2022

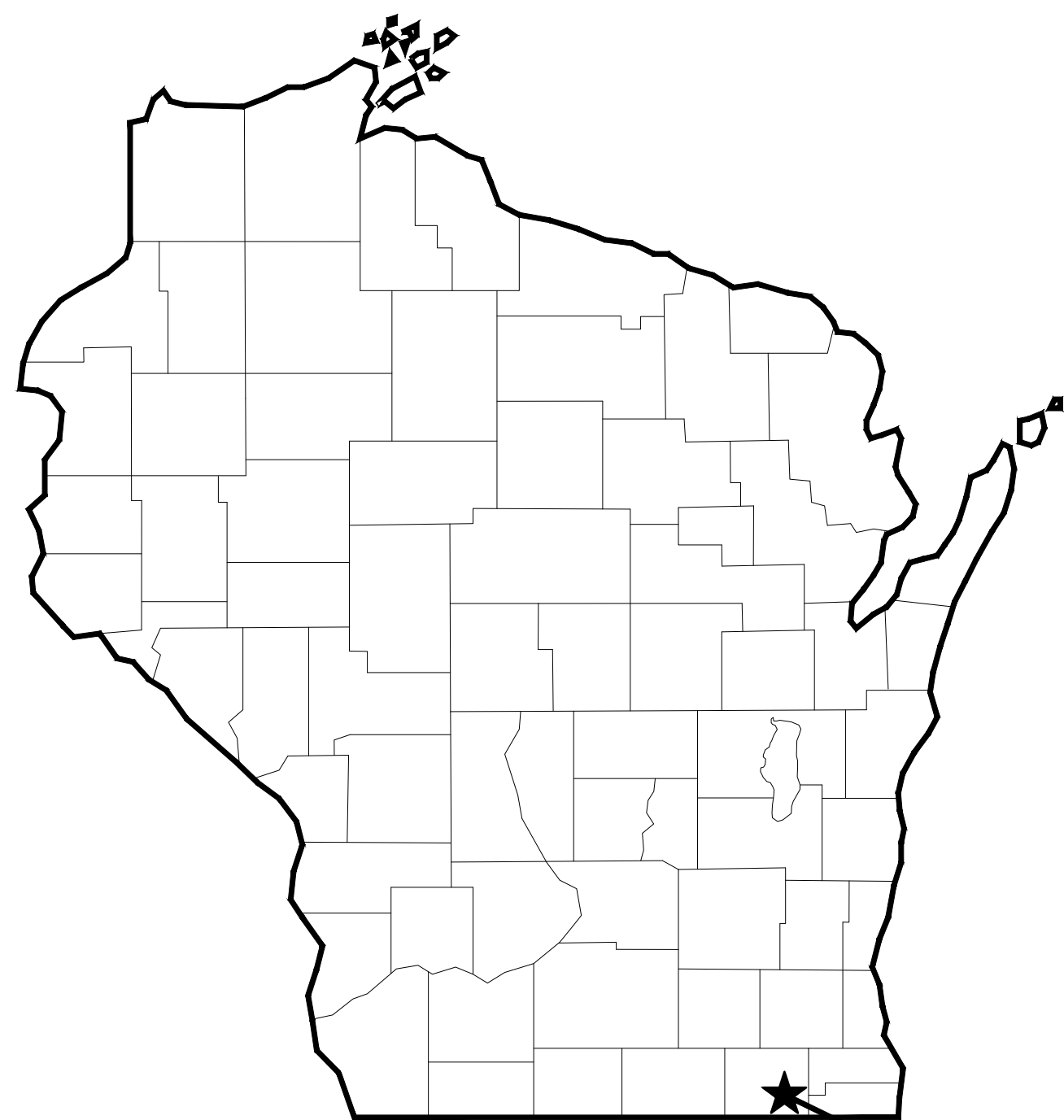
The Wastewater Utility currently operates a hauled waste receiving facility for treating domestic and commercial sanitary wastes (septic and holding tanks) from the surrounding area, accepting an average of 13 – 16 million gallons per year. The current facilities are located adjacent to the ground treatment system, just off Hwy 50 and Hwy 12, and were last improved in the early 90s.

Over the last 18 months, the Utility has worked with Strand Associates to develop a detailed plan set and project manual to facilitate improvements to the hauled waste receiving facilities. Within the scope of the project, the facilities would be relocated to the Wastewater Treatment Plant. The new facilities will include all new screening, monitoring, and metering equipment, which would be housed within a portion of the existing dewatering building that is currently underutilized. A copy of the plan set and an excerpt of the project manual and bidding documents has been provided for review.

The project is currently estimated to cost \$1,100,00 to construct, plus additional fees for engineering and construction management services. Funding for the project will be provided through a combination of general operating revenues, along with portions of funding from the Equipment Replacement Fund and Capital Project Fund. The Utility also plans to release the project with a bid alternate, which would be necessary to qualify for the Clean Water Fund Loan Program. The project is anticipated to qualify for a 0% interest loan and may also qualify for some principal forgiveness, depending on the final application and program guidelines. The Clean Water Fund Loan Program may be pursued if it provides long-term financial benefits, which would be dependent on the additional construction and administration costs related to the program requirements.

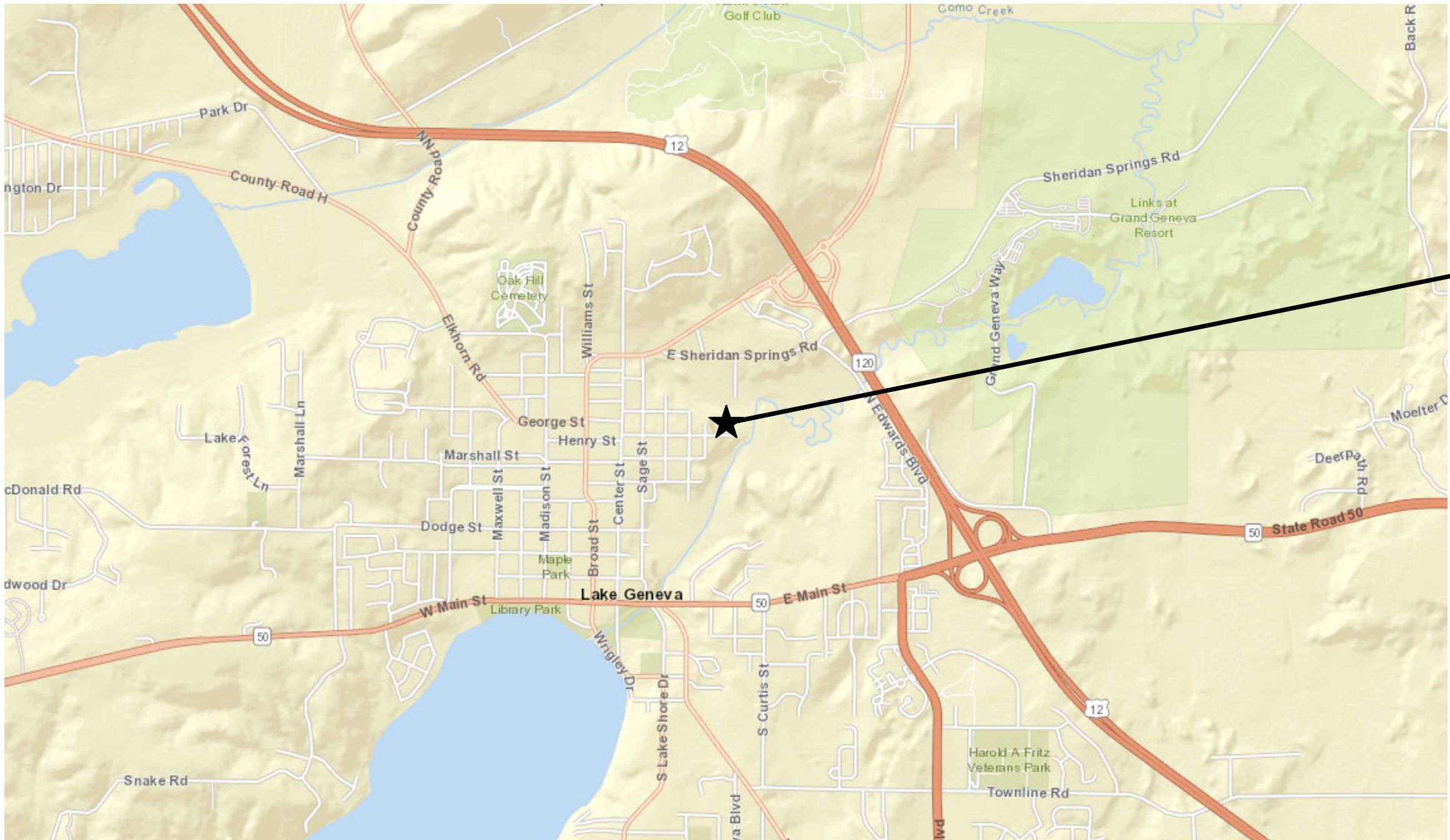
The Utility Commission will be reviewing the final drafts of the project documents and potentially authorizing the project to be released for bidding at the 11/21/2022 meeting. If approved, the bid opening would be held 1/10/2023 and the potential award of the project would be reviewed at the 1/16/2023 Utility Commission meeting. The final completion deadline for the project is anticipated to be 5/31/2024.

**WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
FOR THE  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN**



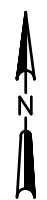
LOCATION MAP  
NO SCALE

**SITE  
LOCATION**



**WWTP  
191 HASKINS STREET  
LAKE GENEVA, WI 53147**

LOCATION MAP  
NO SCALE



**910 West Wingra Drive  
Madison, WI 53715  
608-251-4843  
608-251-8655 fax  
www.strand.com**

**CONTRACT 1-2022**



**ISSUED FOR OWNER REVIEW, 10/20/2022**

**SHEET  
1  
00-G0.01**

DRAWING LIST

| SHEET NO.                                                  | DRAWING NO. | TITLE                                                                                     |
|------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------|
| 00 - GENERAL                                               |             |                                                                                           |
| 1                                                          | 00-G0.01    | TITLE SHEET AND LOCATION PLAN                                                             |
| 2                                                          | 00-G0.02    | LIST OF DRAWINGS AND DESIGN CRITERIA                                                      |
| 3                                                          | 00-G0.03    | STANDARD SYMBOLS - 1                                                                      |
| 4                                                          | 00-G0.04    | STANDARD SYMBOLS - 2                                                                      |
| 5                                                          | 00-G0.05    | ABBREVIATIONS                                                                             |
| 05 - WWTP SITE                                             |             |                                                                                           |
| 6                                                          | 05-CD1.01   | SITE - DEMOLITION PLAN                                                                    |
| 7                                                          | 05-CME1.01  | SITE - LOCATION, GRADING, YARD PIPING, AND ELECTRICAL PLAN                                |
| 80 - BELT FILTER PRESS AND HAULED WASTE RECEIVING BUILDING |             |                                                                                           |
| 8                                                          | 80-D1.01    | HAULED WASTE RECEIVING FACILITY - BUILDING DEMOLITION - FLOOR PLAN                        |
| 9                                                          | 80-D1.02    | HAULED WASTE RECEIVING FACILITY - BUILDING DEMOLITION - EQUIPMENT PLATFORM AND ROOF PLANS |
| 10                                                         | 80-ASM1.01  | HAULED WASTE RECEIVING FACILITY - LIFE SAFETY PLAN AND CODE SUMMARY                       |
| 11                                                         | 80-ASM1.02  | HAULED WASTE RECEIVING FACILITY - FLOOR PLAN                                              |
| 12                                                         | 80-ASM1.03  | HAULED WASTE RECEIVING FACILITY - EQUIPMENT PLATFORM AND ROOF PLANS                       |
| 13                                                         | 80-ASM3.01  | HAULED WASTE RECEIVING FACILITY - SECTIONS AND DETAILS                                    |
| 14                                                         | 80-HP1.01   | HAULED WASTE RECEIVING FACILITY - HVAC AND PLUMBING - FLOOR PLAN                          |
| 15                                                         | 80-HP1.02   | HAULED WASTE RECEIVING FACILITY - HVAC AND PLUMBING - EQUIPMENT PLATFORM PLAN             |
| 16                                                         | 80-P7.01    | HAULED WASTE RECEIVING FACILITY - PLUMBING SCHEMATICS                                     |
| 17                                                         | 80-E1.01    | HAULED WASTE RECEIVING FACILITY - ELECTRICAL - FLOOR PLAN                                 |
| 18                                                         | 80-E1.02    | HAULED WASTE RECEIVING FACILITY - ELECTRICAL - EQUIPMENT PLATFORM AND ROOF PLANS          |
| 99 - SCHEDULES AND DETAILS                                 |             |                                                                                           |
| 19                                                         | 99-C5.01    | CIVIL DETAILS                                                                             |
| 20                                                         | 99-ASM5.01  | ARCHITECTURAL/STRUCTURAL/MECHANICAL DETAILS - 1                                           |
| 21                                                         | 99-ASM5.02  | ARCHITECTURAL/STRUCTURAL/MECHANICAL DETAILS - 2                                           |
| 22                                                         | 99-ASM6.01  | ARCHITECTURAL/STRUCTURAL/MECHANICAL SCHEDULES                                             |
| 23                                                         | 99-PH5.01   | PLUMBING AND HVAC DETAILS                                                                 |
| 24                                                         | 99-PH6.01   | PLUMBING AND HVAC SCHEDULES AND DETAILS                                                   |
| 25                                                         | 99-E5.01    | ELECTRICAL DETAILS                                                                        |
| 26                                                         | 99-E6.01    | ELECTRICAL ONE-LINE DIAGRAMS AND SCHEDULES                                                |

STRUCTURE IDENTIFICATION

- 05 - WWTP SITE
- 10 - SERVICE BUILDING
- 25 - AERATION BASINS
- 40 - RAS/WAS PUMP BUILDING
- 50 - EFFLUENT PUMP STATION
- 60 - SLUDGE STORAGE BUILDING
- 70 - STORAGE BUILDING
- 80 - BELT FILTER PRESS AND HAULED WASTE RECEIVING BUILDING
- 85 - CAKE SLUDGE STORAGE BUILDING
- 90 - STORAGE BUILDING

DISCIPLINE DESIGNATIONS

- G - GENERAL
- N - P&ID
- C - CIVIL
- D - DEMOLITION
- L - LANDSCAPE
- A - ARCHITECTURAL
- S - STRUCTURAL
- H - HEATING, VENTILATION AND AIR CONDITIONING
- M - PROCESS/MECHANICAL
- F - FIRE PROTECTION AND SUPPRESSION
- P - PLUMBING
- E - ELECTRICAL
- W - CIVIL WORKS

SHEET TYPE DESIGNATORS

- 0 - GENERAL (SYMBOLS, ABBREVIATIONS, ETC.)
- 1 - PLANS
- 2 - ELEVATIONS
- 3 - SECTIONS
- 4 - LARGE SCALE VIEWS
- 5 - DETAILS
- 6 - SCHEDULES AND DIAGRAMS
- 7 - SCHEMATICS
- 8 - SCHEDULES AND DETAILS

UNIT DESIGN CRITERIA

|                                  |                                                               |
|----------------------------------|---------------------------------------------------------------|
| A. HAULED WASTE RECEIVING SYSTEM |                                                               |
| NUMBER OF UNITS                  | 1                                                             |
| TYPE                             | ROTARY DRUM SCREEN WITH INCLINED SCREW CONVEYOR               |
| SCREEN OPENING SIZE              | 1/4 - INCH (6 MM)                                             |
| DRIVE MOTOR                      | 2 HP                                                          |
| FLOW CAPACITY                    | 1,000 GPM (CLEAN WATER FLOW), 700 GPM (3% TO 6% TOTAL SOLIDS) |
| SCREENING CAPACITY               | 74 CUBIC FEET PER HOUR                                        |
| AUGER INCLINE ANGLE              | 35-DEGREES FROM HORIZONTAL                                    |
| INLET PRESSURE                   | 15 PSI (MAXIMUM)                                              |
| INLET PIPE SIZE                  | 4 - INCH                                                      |
| ROCK TRAP                        | 1                                                             |
| OUTLET PIPE SIZE                 | 12 - INCH                                                     |
| INLET FLOW METER                 | INLINE MAGNETIC                                               |
| QUALITY MONITORING               | pH AND CONDUCTIVITY METERS                                    |

LIST OF DRAWINGS AND DESIGN CRITERIA

WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

JOB NO.  
2679.002

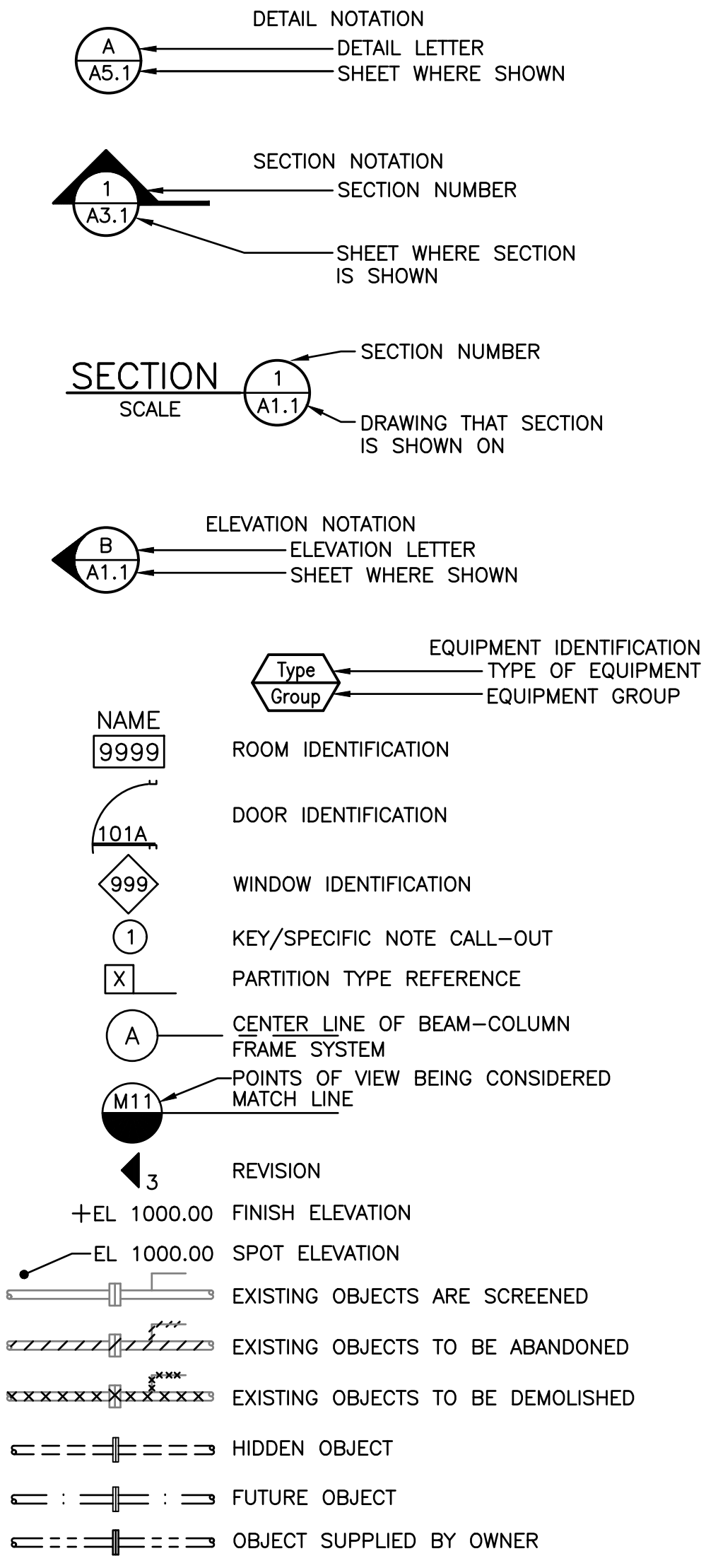
PROJECT MGR.  
BRENT SCHUSTER



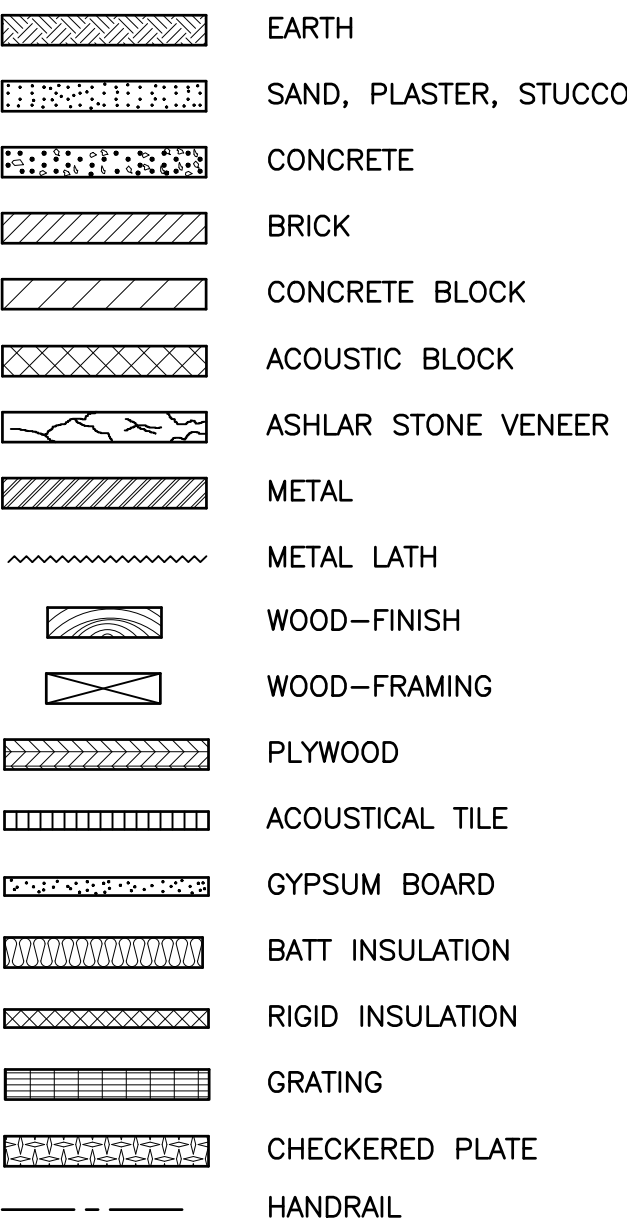
STRAND  
ASSOCIATES®

SHEET  
2  
00-G0.02

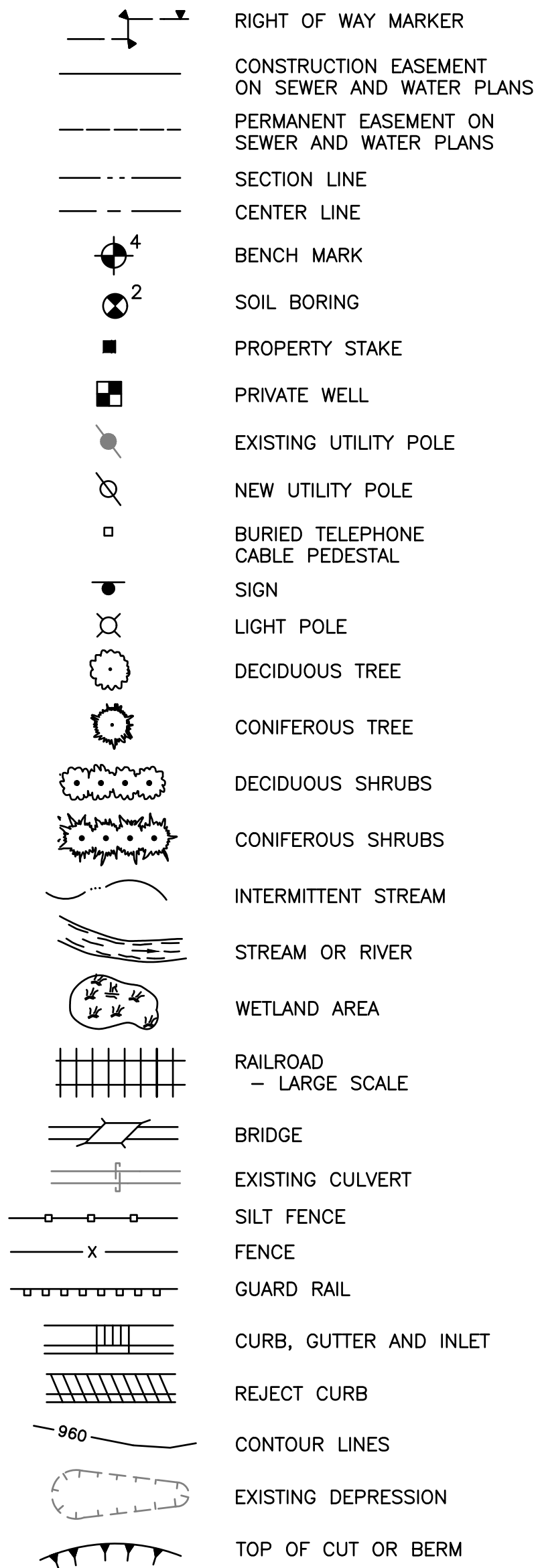
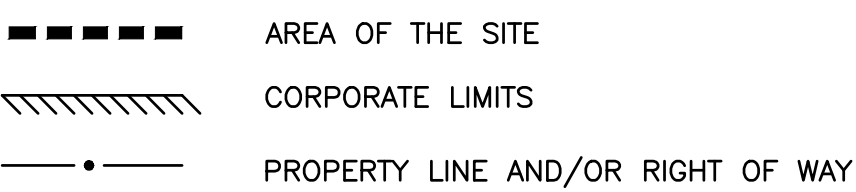
DRAFTING SYMBOLS



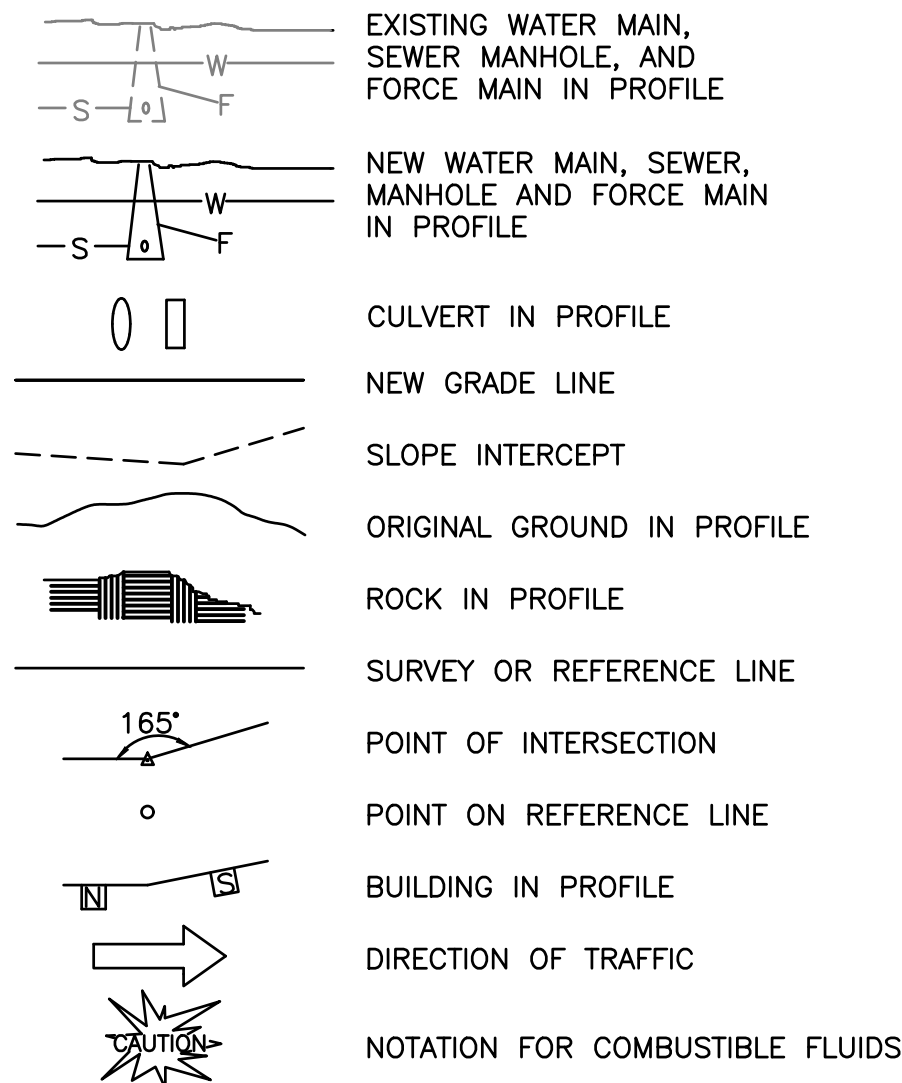
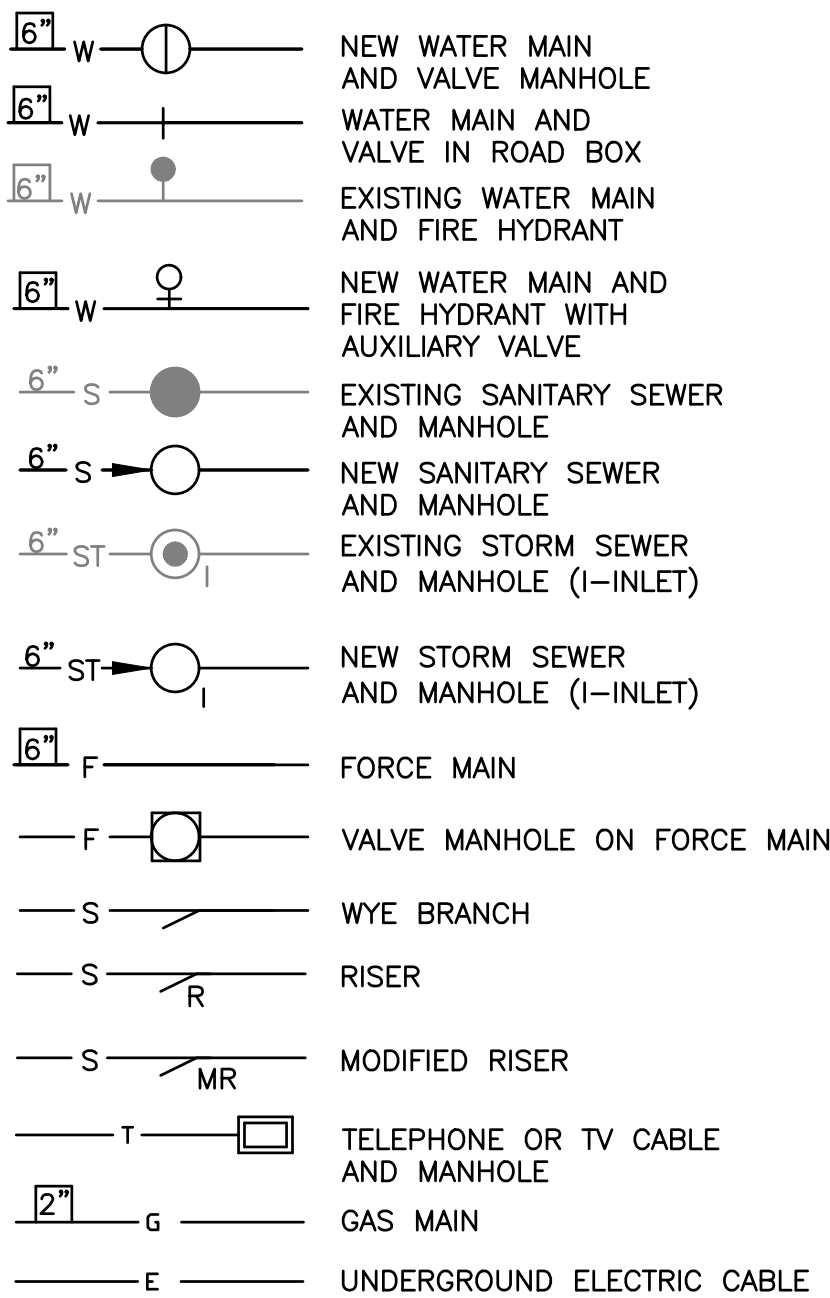
ARCHITECTURAL SYMBOLS



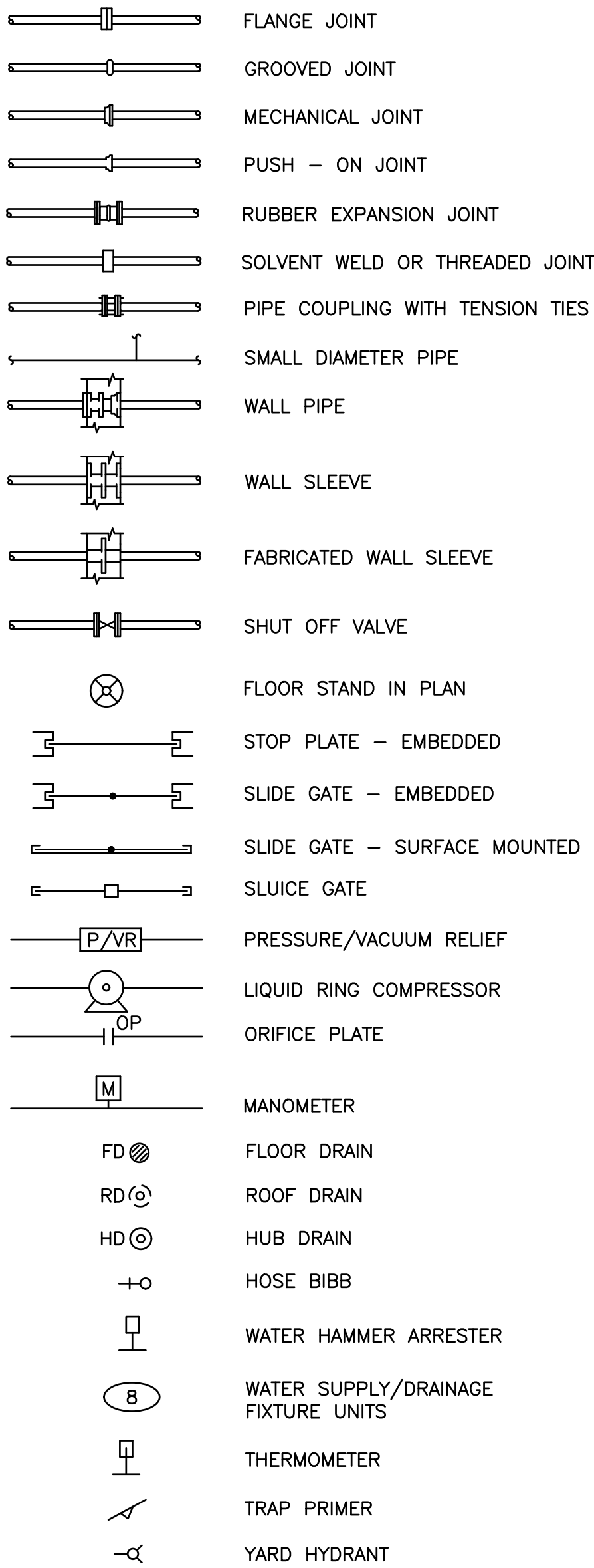
TOPOGRAPHICAL SYMBOLS



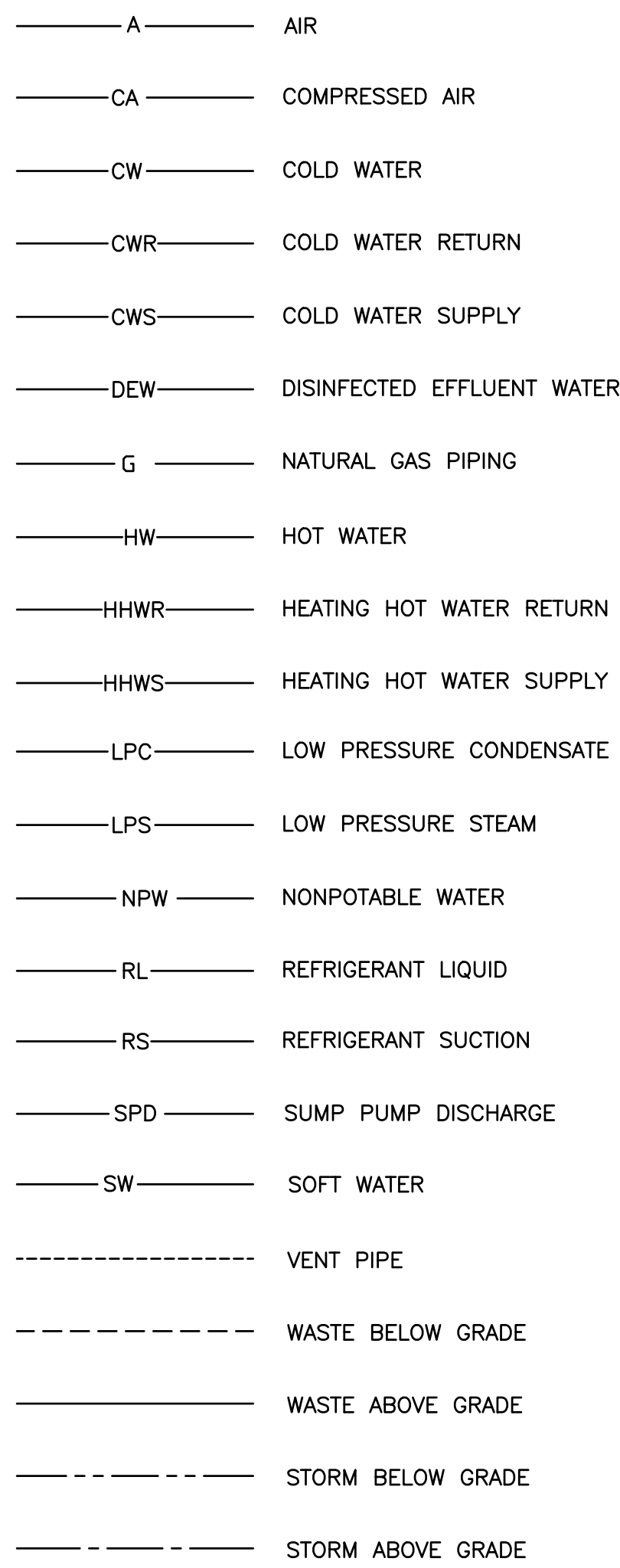
UNDERGROUND UTILITY SYMBOLS



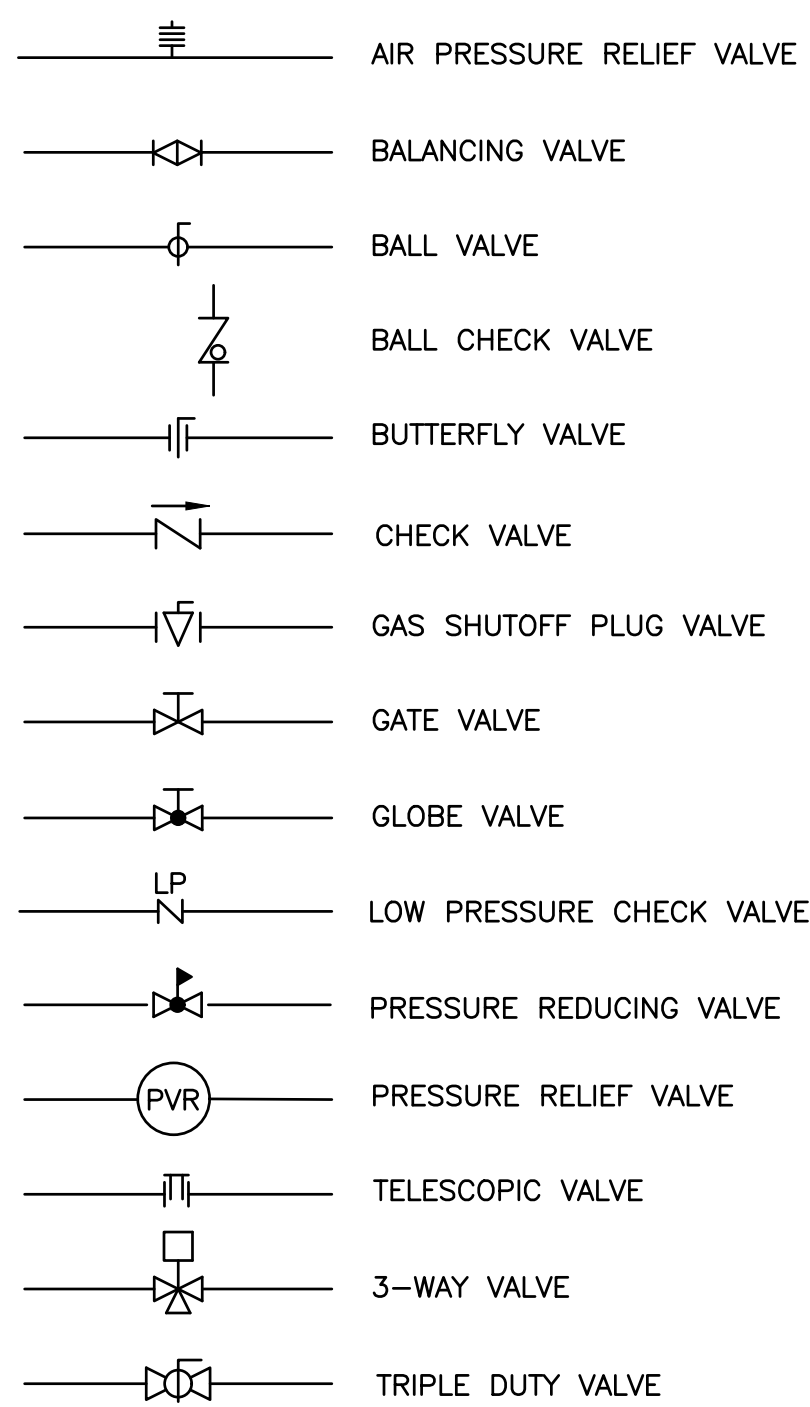
PIPING SYMBOLS



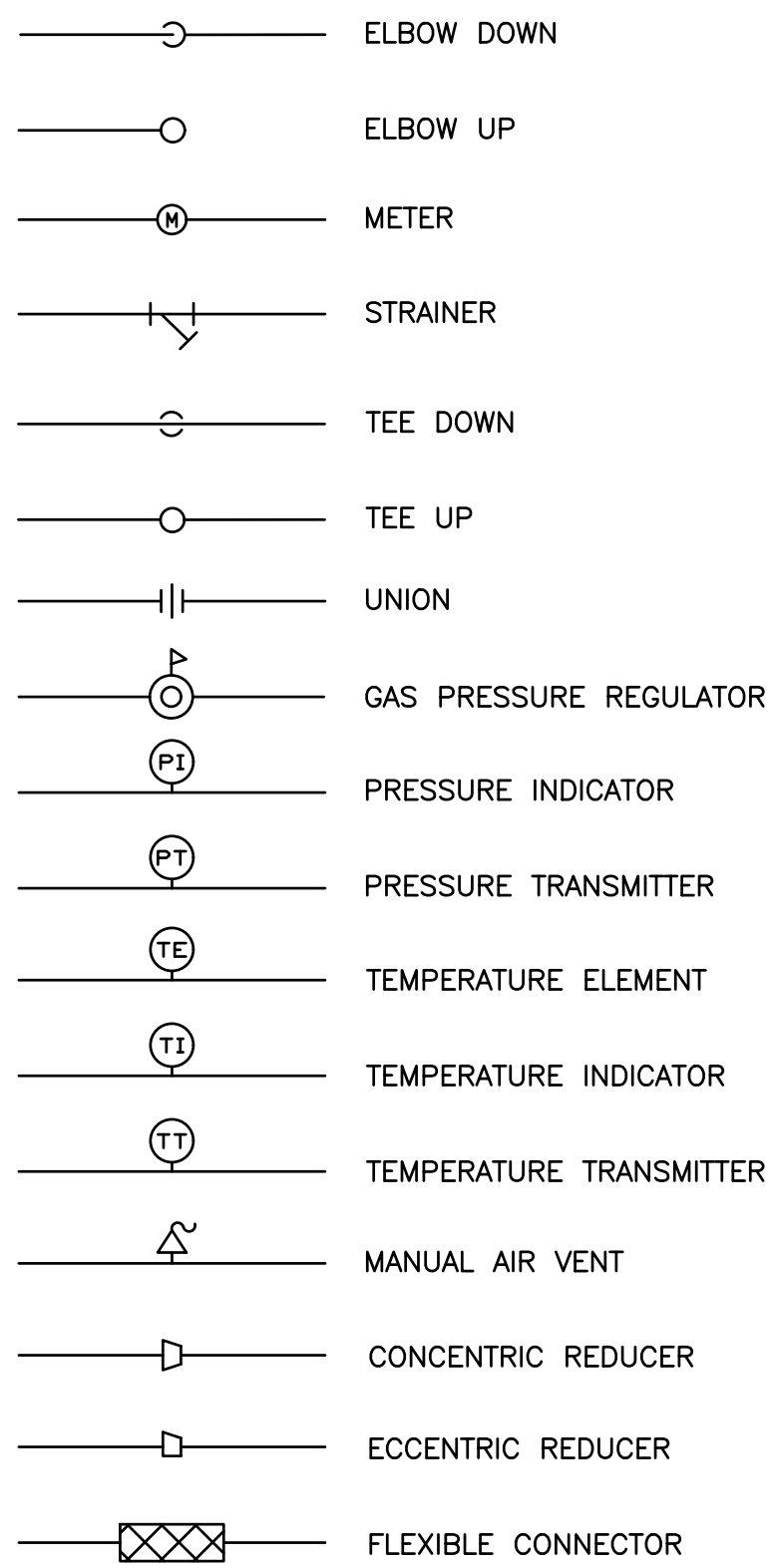
PIPING DESIGNATIONS



VALVE SYMBOLS



PIPING SYMBOLS



STANDARD SYMBOLS - 1

WASTEWATER TREATMENT PLANT

HAULED WASTE RECEIVING FACILITY

LAKE GENEVA UTILITY COMMISSION

CITY OF LAKE GENEVA, WISCONSIN

JOB NO.  
2679.002

PROJECT MGR.  
BRENT SCHUSTER

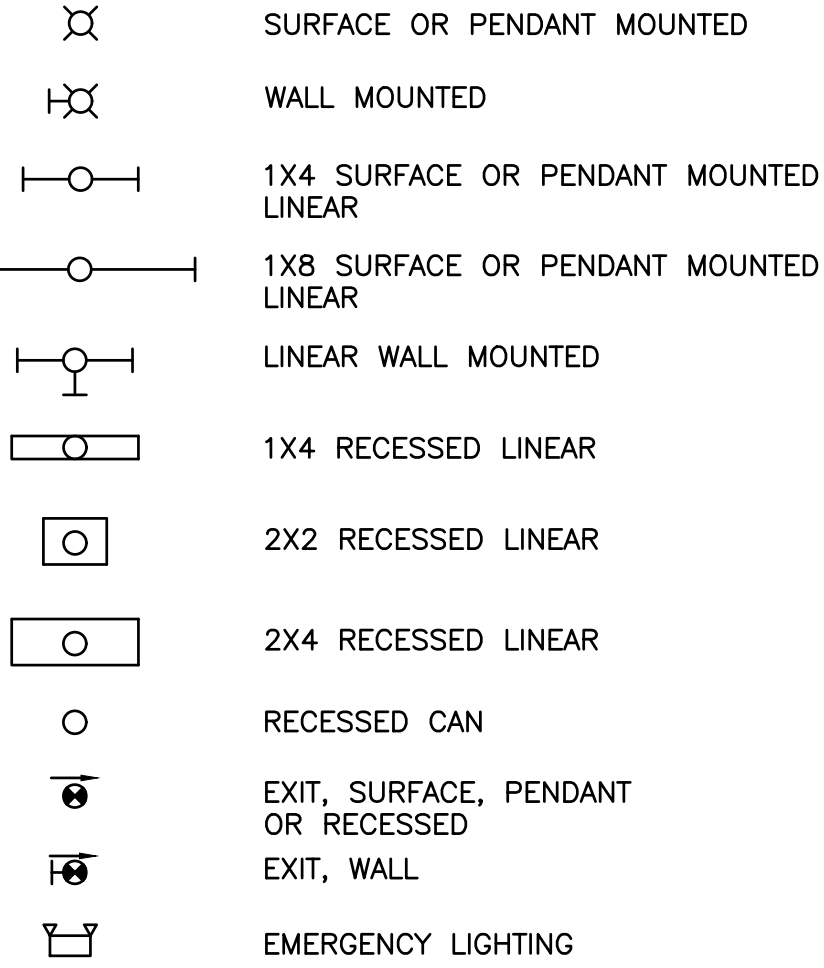
STRAND ASSOCIATES®

SHEET  
3  
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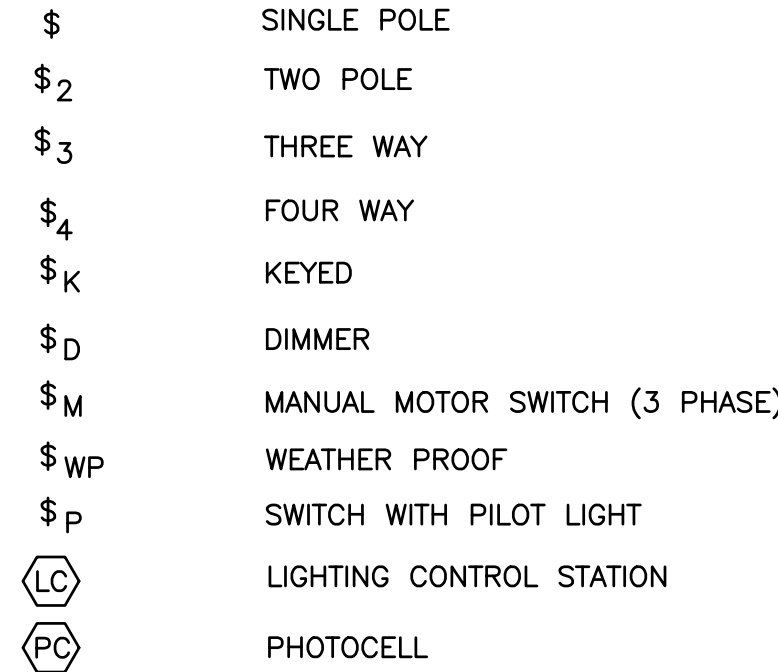
ELECTRICAL SYMBOLS

LIGHTING

FIXTURE SYMBOL (TYPICAL)  
A-INDICATES FIXTURE TYPE  
2-INDICATES CIRCUIT NUMBER  
b-INDICATES SWITCHING  
SOLID CIRCLE INDICATES ALWAYS ON



SWITCHES



EQUIPMENT AND WIRING

GROUND CONNECTION (ONE-LINE DIAGRAM)

TRANSFORMER

DISCONNECT, F=FUSED, B=CIRCUIT BREAKER, BLANK=NON-FUSED

MOTOR STARTER MAGNETIC

CIRCUIT BREAKER COMBINATION STARTER

JUNCTION BOX

LINE VOLTAGE THERMOSTAT

LINE VOLTAGE THERMOSTAT W/REMOTE BULB

480V LOAD, REFER TO MCC SCHEDULE FOR EQUIPMENT NUMBER

VARIABLE FREQUENCY DRIVE

SITE SYMBOLS

UNDERGROUND ELECTRIC

OVERHEAD ELECTRIC

CABLE TELEVISION SERVICE

TELEPHONE SERVICE

FIBER OPTIC CABLE

UTILITY POLE

POWER SYMBOLS

CIRCUIT NUMBER (TYPICAL)  
OTHERWISE SHOWN PANEL DESIGNATION (TYP.)  
2-INDICATES CIRCUIT NUMBER  
b-INDICATES WEATHERPROOF  
DUPLX, 125 VOLT, WP  
INDICATES WEATHERPROOF

DUPLX, 125 VOLT, ABOVE FURNITURE

DOUBLE DUPLEX, 125 VOLT, ABOVE FURNITURE

DOUBLE DUPLEX, 125 VOLT

SINGLE CONVENIENCE, 125 VOLT FOR ELECTRIC WATER COOLER

EXPLOSION-PROOF, ABOVE FURNITURE

EXPLOSION-PROOF

FIXED EQUIPMENT CONNECTION

POWER OUTLET, VOLTAGE & AMPERAGE AS INDICATED

AUTOMATIC TRANSFER SWITCH (ONE-LINE DIAGRAM)

CIRCUIT BREAKER (ONE-LINE DIAGRAM)

METER (ONE-LINE DIAGRAM)

PANELBOARD

FIRE ALARM AND DETECTION SYMBOLS

FIRE ALARM CONTROL PANEL

FIRE ANNUNCIATOR CONTROL PANEL

STROBE; WALL MOUNT - ADA RATED

STROBE CANDELA RATING 80" AFF

HORN STROBE; WALL MOUNT - ADA RATED

STROBE CANDELA RATING 80" AFF

SPEAKER STROBE; WALL MOUNT - ADA RATED

STROBE CANDELA RATING 80" AFF

HORN; WALL MOUNT - ADA RATED

SPEAKER; WALL MOUNT - ADA RATED

STROBE; CEILING MOUNT - ADA RATED

STROBE CANDELA RATING

HORN STROBE; CEILING MOUNT - ADA RATED

STROBE CANDELA RATING

SPEAKER STROBE; CEILING MOUNT - ADA RATED

STROBE CANDELA RATING

AREA OF RESCUE ASSISTANCE

EMERGENCY TELEPHONE SYSTEM

HEAT DETECTOR; CEILING MOUNT

SMOKE DETECTOR; CEILING MOUNT

ELEVATOR RECALL SMOKE DETECTOR

NITROUS OXIDE SENSOR

CARBON MONOXIDE SENSOR

SWITCH INDICATION

DUCT SMOKE DETECTOR

DUCT SIZE

REMOTE TEST SWITCH

SWITCH INDICATION

FIRE ALARM PULL STATION

SPRINKLER FLOW SWITCH

SPRINKLER VALVE TAMPER SWITCH

FIRE ALARM BELL

INSTRUMENTATION EQUIPMENT

ANALYSIS ELEMENT

ANALYSIS INDICATING TRANSMITTER,  
\*: DO=DISSOLVED OXYGEN, PH=PH, TRB=TURBIDITY, TSS=TOTAL SUSPENDED SOLIDS, GD=GAS DETECTOR, CA=CHLORINE ANALYZER, OP=OXYGEN PURITY, ORP=OXYGEN-REDUCTION POTENTIAL, LEL=LOWER EXPLOSIVE LIMIT, PR=PROXIMITY, MST=MOISTURE

CONTROL SWITCH  
DEVICE TYPE  
(SEE MCC SCHEDULE)

DENSITY ELEMENT

DENSITY INDICATING TRANSMITTER

FLOW ELEMENT

FLOW INDICATING TRANSMITTER,  
\*: M=MAGNETIC, TM= THERMAL MASS  
DP=DIFFERENTIAL PRESSURE, U=ULTRASONIC

FLOW SWITCH  
\*: P=PADDLE, T=THERMAL,  
C=CAPACITANCE, A=AIR FLOW

HAND SWITCH  
\*: SS=SAFETY SWITCH

POWER ELEMENT  
(CURRENT XFMR, POTENTIAL XFMR)

CURRENT SWITCH

POWER INDICATING TRANSMITTER

TIME SWITCH

LEVEL ELEMENT

LEVEL INDICATING TRANSMITTER,  
\*: S=SUBMERSIBLE, U=ULTRASONIC, R=RADAR,  
TL=TANK LEVEL/RING PRESSURE TYPE, F=FLANGE MOUNTED)

LEVEL SWITCH,  
\*: C=CONDUCTANCE, F=BALL FLOAT,  
V=VIBRATING FORK, B=BUILDING FLOODING

LEVEL TRANSDUCER  
S=SUBMERSIBLE

DIFFERENTIAL PRESSURE INDICATING TRANSMITTER

PRESSURE ELEMENT

PRESSURE INDICATING TRANSMITTER

PRESSURE SWITCH

SPEED SWITCH

TEMPERATURE CONTROLLER

TEMPERATURE ELEMENT,  
\*: R=RTD, T=THERMOCOUPLE

TEMPERATURE INDICATING TRANSMITTER

TEMPERATURE CONTROL STATION

TEMPERATURE SWITCH

TEMPERATURE TRANSMITTER

VIBRATION ELEMENT

VIBRATION INDICATING TRANSMITTER

WEIGHT ELEMENT

TORQUE SWITCH

WEIGHT TRANSMITTER (SCALE)

PRESENCE/ABSENCE DETECTOR

POSITION SWITCH,  
\*: D=DOOR, L=LIMIT, P=PROXIMITY

SOLENOID VALVE

GAS DETECTION SYSTEM HORN; WALL MOUNT

GAS DETECTION SYSTEM STROBE; WALL MOUNT

TECHNOLOGY SYMBOLS

DATA JACK

PHONE JACK

POTS ANALOG PHONE AND DATA JACKS  
\* = # OF JACKS  
WALL MOUNT VOIP PHONE JACK  
54" AFF

WALL MOUNT POTS ANALOG PHONE JACK 54" AFF

2-POST DATA RACK

COAX CABLE JACK

POWER POLE

PA SYSTEM HORN; 10'-0" AFF

PA SYSTEM SPEAKER

SPEAKER; CEILING MOUNT  
A=SPEAKER TYPE

KEY PAD

GLASS BREAK DETECTOR

MOTION SENSOR

PUSH BUTTON

ELECTRIC STRIKE

MAGNETIC LOCK

INTERCOM STATION

OCCUPANCY SENSOR, CEILING, OR WALL  
SEE SPECIFICATION FOR SENSOR TYPE

CARD READER

REMOTE VOLUME CONTROL

FIXED SECURITY CAMERA

PAN, TILT, ZOOM SECURITY CAMERA

DUCTWORK SYMBOLS

SUPPLY DUCT (UP OR SECTION)

SUPPLY OR OUTSIDE AIR DUCT (DOWN/OR AWAY)

EXHAUST DUCT (UP OR SECTION)

EXHAUST OR RETURN DUCT (DOWN/OR AWAY)

ROUND DUCTWORK UP

ROUND DUCTWORK DOWN

FLEXIBLE CANVAS CONNECTION

TURNING VANES

DAMPER SYMBOLS

AUTOMATIC DAMPER

BACKDRAFT DAMPER

MANUAL VOLUME DAMPER

1-1/2 HR. FIRE DAMPER

FIELD MOUNTED HVAC CONTROLS

THERMOSTAT

ROOM HUMIDISTAT

PRESSURE SENSOR

ROOM SENSOR

DUCT SMOKE DETECTOR

PRESSURE GAUGE

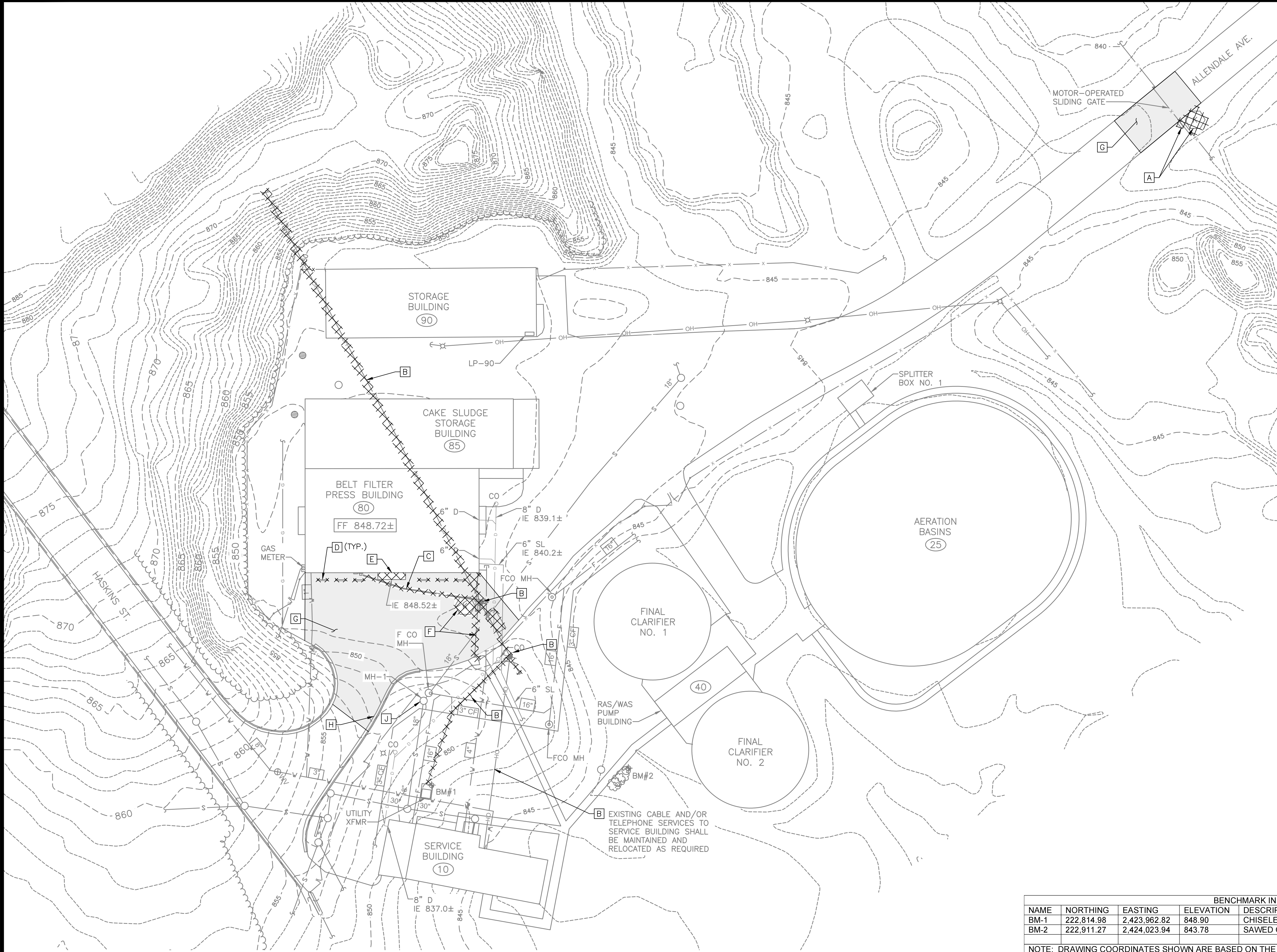
STANDARD SYMBOLS - 2  
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

JOB NO.  
2679.002  
PROJECT MGR.  
BRENT SCHUSTER

STRAND ASSOCIATES

SHEET  
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00-G0.04

|                                                                                                                                                                                                                                                                                                                                                            |  |  |            |                         |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------|-------------------------|--------------|
| <p align="center"><b>ABBREVIATIONS</b></p> <p align="center"> <b>WASTEWATER TREATMENT PLANT</b><br/> <b>HAULED WASTE RECEIVING FACILITY</b><br/> <b>LAKE GENEVA UTILITY COMMISSION</b><br/> <b>CITY OF LAKE GENEVA, WISCONSIN</b> </p>                                                                                                                     |  |  | <b>NO.</b> | <b>REVISIONS</b>        | <b>DATE:</b> |
|                                                                                                                                                                                                                                                                                                                                                            |  |  | 1          | ISSUED FOR OWNER REVIEW | 10/26/2022   |
|                                                                                                                                                                                                                                                                                                                                                            |  |  |            |                         |              |
|                                                                                                                                                                                                                                                                                                                                                            |  |  |            |                         |              |
|                                                                                                                                                                                                                                                                                                                                                            |  |  |            |                         |              |
|                                                                                                                                                                                                                                                                                                                                                            |  |  |            |                         |              |
|                                                                                                                                                                                                                                                                                                                                                            |  |  |            |                         |              |
| <p align="center"><b>JOB NO.</b><br/>2679.002</p> <p align="center"><b>PROJECT MGR.</b><br/>BRENT SCHUSTER</p> <div align="center"> <br/> <b>STRAND</b><br/>         ASSOCIATES®       </div> <p align="center"> <b>SHEET</b><br/> <b>5</b><br/> <b>00-G0.05</b> </p> |  |  |            |                         |              |



- GENERAL NOTES:
- REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS NOT BEING REUSED SHALL BE CAPPED AND ABANDON IN PLACE.
  - AREA OF THE SITE LIMITS SHALL BE LIMITED TO THE CITY'S WASTEWATER TREATMENT PLANT PROPERTY BOUNDARIES AND WITHIN THE SITE CHAIN LINK FENCE SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL CONFINE IT'S WORK TO THESE LIMITS AS SPECIFIED.

- DEMOLITION KEY NOTES:
- A** REMOVE EXISTING MOTORIZED GATE OPERATOR, KEYPAD, ACCESSORIES, LOOP DETECTORS AND ANY SENSORS ON EXISTING GATE. EXISTING GATE SHALL REMAIN FOR REUSE.
  - B** EXISTING POWER POLE AND TELEPHONE PEDESTAL SHALL BE REMOVED. COORDINATE REMOVAL OF OVERHEAD ELECTRICAL POWER LINES, POWER POLE, TELEPHONE PEDESTAL AND WIRING WITH UTILITY COMPANY. THERE ARE ADDITIONAL UTILITIES CO-LOCATED ON THE EXISTING POLE. COORDINATE REMOVAL OF ADDITIONAL UTILITIES WITH ALLIANT ENERGY. EXISTING TELEPHONE AND CABLE UTILITIES THAT SERVE EXISTING FACILITIES OTHER THAN THE BELT FILTER PRESS BUILDING SHALL BE MAINTAINED AND RELOCATED AS REQUIRED. SEE DRAWING 05-CME1.01.
  - C** REMOVE EXISTING BURIED POWER AND TELEPHONE CABLING BETWEEN POWER POLE/PEDESTAL AND BELT FILTER PRESS BUILDING.
  - D** REMOVE ALL EXISTING PRECAST CONCRETE PARKING BUMPERS.
  - E** REMOVE EXISTING CONCRETE APRON AND MINIMUM OF 12-INCHES OF EXISTING BASE COURSE MATERIAL UNDER SLAB.
  - F** REMOVE EXISTING CHAIN LINK FENCE, SLIDING ENTRY GATE, MOTORIZED GATE OPERATOR, KEYPAD, LOOP DETECTORS, SENSORS AND ASSOCIATED ACCESSORIES. REMOVE ALL ASSOCIATED BURIED CONDUIT IN AREA OF PAVEMENT REMOVAL. CAP ENDS OF REMAINING BURIED CONDUIT OUTSIDE OF PAVEMENT LIMITS.
  - G** REMOVE EXISTING ASPHALT PAVEMENT AND MINIMUM OF 12-INCHES OF EXISTING BASE COURSE UNDER PAVEMENT OR AS REQUIRED FOR NEW CONSTRUCTION OR NEW BASE COURSE. SAWCUT PAVEMENT AS SPECIFIED.
  - H** REMOVE EXISTING CONCRETE CURB AND GUTTER. REMOVE BASE COURSE UNDER CURB AND GUTTER AS REQUIRED FOR NEW BASE COURSE UNDER CURB AND GUTTER.
  - J** CORE HOLE IN EXISTING MANHOLE FOR NEW 12-INCH D PIPING PENETRATION AS SHOWN ON SITE YARD PIPING PLAN.

- LEGEND:
- DEMO
  - PAVEMENT OR CURB/GUTTER REMOVAL

| BENCHMARK INFORMATION |            |              |           |                                                       |
|-----------------------|------------|--------------|-----------|-------------------------------------------------------|
| NAME                  | NORTHING   | EASTING      | ELEVATION | DESCRIPTION                                           |
| BM-1                  | 222,814.98 | 2,423,962.82 | 848.90    | CHISELED 'X' IN NW CORNER OF CONCRETE TRANSFORMER PAD |
| BM-2                  | 222,911.27 | 2,424,023.94 | 843.78    | SAWED OFF BOLT IN NORTH QUADRANT OF CONCRETE MH SLAB  |

NOTE: DRAWING COORDINATES SHOWN ARE BASED ON THE STATE PLANE COORDINATES SYSTEM.

MANHOLE SCHEDULE

MH-1  
RIM EL= 852.26±  
18" S IE= 839.74± NW  
18" S IE= 839.58± E



Toll Free (800) 242-8511  
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Hearing Impaired TDD (800) 542-2289  
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SITE - DEMOLITION PLAN

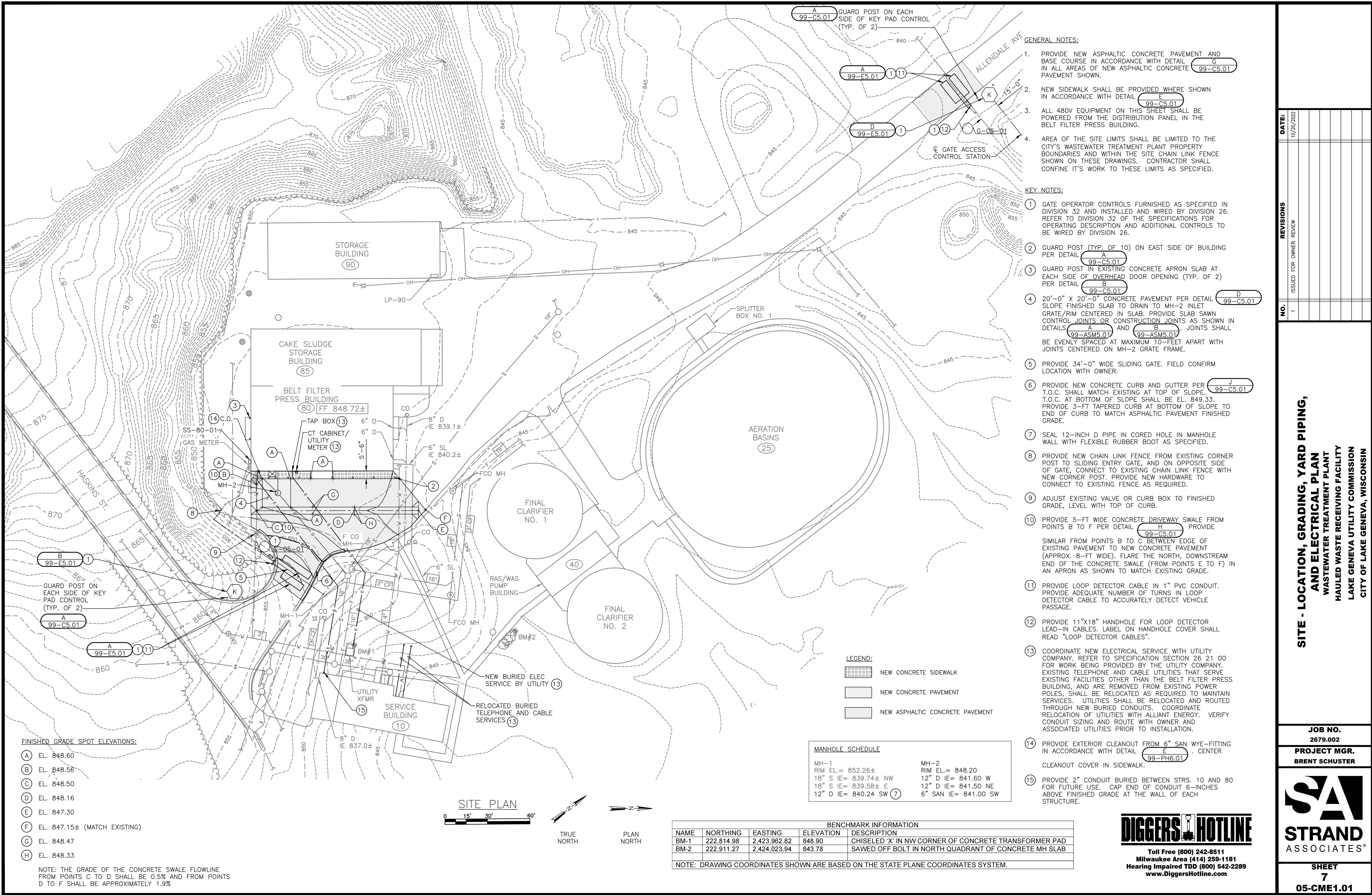
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

JOB NO.  
2679.002

PROJECT MGR.  
BRENT SCHUSTER



SHEET  
6  
05-CD1.01



GENERAL NOTES:

- 1. PROVIDE NEW ASPHALTIC CONCRETE PAVEMENT AND BASE COURSE IN ACCORDANCE WITH DETAIL **G** 99-C5.01 IN ALL AREAS OF NEW ASPHALTIC CONCRETE PAVEMENT SHOWN.
- 2. NEW SIDEWALK SHALL BE PROVIDED WHERE SHOWN IN ACCORDANCE WITH DETAIL **E** 99-C5.01
- 3. ALL 480V EQUIPMENT ON THIS SHEET SHALL BE POWERED FROM THE DISTRIBUTION PANEL IN THE BELT FILTER PRESS BUILDING.
- 4. AREA OF THE SITE LIMITS SHALL BE LIMITED TO THE CITY'S WASTEWATER TREATMENT PLANT PROPERTY BOUNDARIES AND WITHIN THE SITE CHAIN LINK FENCE SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL CONFINE IT'S WORK TO THESE LIMITS AS SPECIFIED.

KEY NOTES:

- ① GATE OPERATOR CONTROLS FURNISHED AS SPECIFIED IN DIVISION 32 AND INSTALLED AND WIRED BY DIVISION 26. REFER TO DIVISION 32 OF THE SPECIFICATIONS FOR OPERATING DESCRIPTION AND ADDITIONAL CONTROLS TO BE WIRED BY DIVISION 26.
- ② GUARD POST (TYP. OF 10) ON EAST SIDE OF BUILDING PER DETAIL **A** 99-C5.01
- ③ GUARD POST IN EXISTING CONCRETE APRON SLAB AT EACH SIDE OF OVERHEAD DOOR OPENING (TYP. OF 2) PER DETAIL **B** 99-C5.01
- ④ 20'-0" X 20'-0" CONCRETE PAVEMENT PER DETAIL SLOPE FINISHED SLAB TO DRAIN TO MH-2 INLET GRATE/RIM CENTERED IN SLAB. PROVIDE SLAB SAWN CONTROL JOINTS OR CONSTRUCTION JOINTS AS SHOWN IN DETAILS **A** 99-ASM5.01 AND **B** 99-ASM5.01. JOINTS SHALL BE EVENLY SPACED AT MAXIMUM 10- FEET APART WITH JOINTS CENTERED ON MH-2 GRATE FRAME.
- ⑤ PROVIDE 34'-0" WIDE SLIDING GATE. FIELD CONFIRM LOCATION WITH OWNER.
- ⑥ PROVIDE NEW CONCRETE CURB AND GUTTER PER T.O.C. SHALL MATCH EXISTING AT TOP OF SLOPE. T.O.C. AT BOTTOM OF SLOPE SHALL BE EL. 849.33. PROVIDE 3'-FT TAPERED CURB AT BOTTOM OF SLOPE TO END OF CURB TO MATCH ASPHALTIC PAVEMENT FINISHED GRADE.
- ⑦ SEAL 12-INCH D PIPE IN CORED HOLE IN MANHOLE WALL WITH FLEXIBLE RUBBER BOOT AS SPECIFIED.
- ⑧ PROVIDE NEW CHAIN LINK FENCE FROM EXISTING CORNER POST TO SLIDING ENTRY GATE, AND ON OPPOSITE SIDE OF GATE, CONNECT TO EXISTING CHAIN LINK FENCE WITH NEW CORNER POST. PROVIDE NEW HARDWARE TO CONNECT TO EXISTING FENCE AS REQUIRED.
- ⑨ ADJUST EXISTING VALVE OR CURB BOX TO FINISHED GRADE, LEVEL WITH TOP OF CURB.
- ⑩ PROVIDE 5'-FT WIDE CONCRETE DRIVEWAY SWALE FROM POINTS B TO F PER DETAIL **H** 99-C5.01. PROVIDE SIMILAR FROM POINTS B TO C BETWEEN EDGE OF EXISTING PAVEMENT TO NEW CONCRETE PAVEMENT (APPROX. 8'-FT WIDE). FLARE THE NORTH, DOWNSTREAM END OF THE CONCRETE SWALE (FROM POINTS E TO F) IN AN APRON AS SHOWN TO MATCH EXISTING GRADE.
- ⑪ PROVIDE LOOP DETECTOR CABLE IN 1" PVC CONDUIT. PROVIDE ADEQUATE NUMBER OF TURNS IN LOOP DETECTOR CABLE TO ACCURATELY DETECT VEHICLE PASSAGE.
- ⑫ PROVIDE 11"x18" HANDHOLE FOR LOOP DETECTOR LEAD-IN CABLES. LABEL ON HANDHOLE COVER SHALL READ "LOOP DETECTOR CABLES".
- ⑬ COORDINATE NEW ELECTRICAL SERVICE WITH UTILITY COMPANY. REFER TO SPECIFICATION SECTION 26 21 00 FOR WORK BEING PROVIDED BY THE UTILITY COMPANY. EXISTING TELEPHONE AND CABLE UTILITIES THAT SERVE EXISTING FACILITIES OTHER THAN THE BELT FILTER PRESS BUILDING, AND ARE REMOVED FROM EXISTING POWER POLES, SHALL BE RELOCATED AS REQUIRED TO MAINTAIN SERVICES. UTILITIES SHALL BE RELOCATED AND ROUTED THROUGH NEW BURIED CONDUITS. COORDINATE RELOCATION OF UTILITIES WITH ALLIANT ENERGY. VERIFY CONDUIT SIZING AND ROUTE WITH OWNER AND ASSOCIATED UTILITIES PRIOR TO INSTALLATION.
- ⑭ PROVIDE EXTERIOR CLEANOUT FROM 6" SAN WYE-FITTING IN ACCORDANCE WITH DETAIL **E** 99-PH6.01. CENTER CLEANOUT COVER IN SIDEWALK.
- ⑮ PROVIDE 2" CONDUIT BURIED BETWEEN STRS. 10 AND 80 FOR FUTURE USE. CAP END OF CONDUIT 6-INCHES ABOVE FINISHED GRADE AT THE WALL OF EACH STRUCTURE.

LEGEND:

- NEW CONCRETE SIDEWALK
- NEW CONCRETE PAVEMENT
- NEW ASPHALTIC CONCRETE PAVEMENT

MANHOLE SCHEDULE

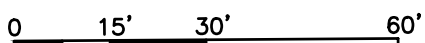
|                      |                  |                      |                 |
|----------------------|------------------|----------------------|-----------------|
| MH-1                 | RIM EL.= 852.26± | MH-2                 | RIM EL.= 848.20 |
| 18" S IE= 839.74± NW |                  | 12" D IE= 841.60 W   |                 |
| 18" S IE= 839.58± E  |                  | 12" D IE= 841.50 NE  |                 |
| 12" D IE= 840.24 SW  |                  | 6" SAN IE= 841.00 SW |                 |

FINISHED GRADE SPOT ELEVATIONS:

- A** EL. 848.60
- B** EL. 848.56
- C** EL. 848.50
- D** EL. 848.16
- E** EL. 847.30
- F** EL. 847.15± (MATCH EXISTING)
- G** EL. 848.47
- H** EL. 848.33

NOTE: THE GRADE OF THE CONCRETE SWALE FLOWLINE FROM POINTS C TO D SHALL BE 0.5% AND FROM POINTS D TO F SHALL BE APPROXIMATELY 1.9%

SITE PLAN



TRUE NORTH

PLAN NORTH

BENCHMARK INFORMATION

| NAME | NORTHING   | EASTING      | ELEVATION | DESCRIPTION                                           |
|------|------------|--------------|-----------|-------------------------------------------------------|
| BM-1 | 222,814.98 | 2,423,962.82 | 848.90    | CHISELED 'X' IN NW CORNER OF CONCRETE TRANSFORMER PAD |
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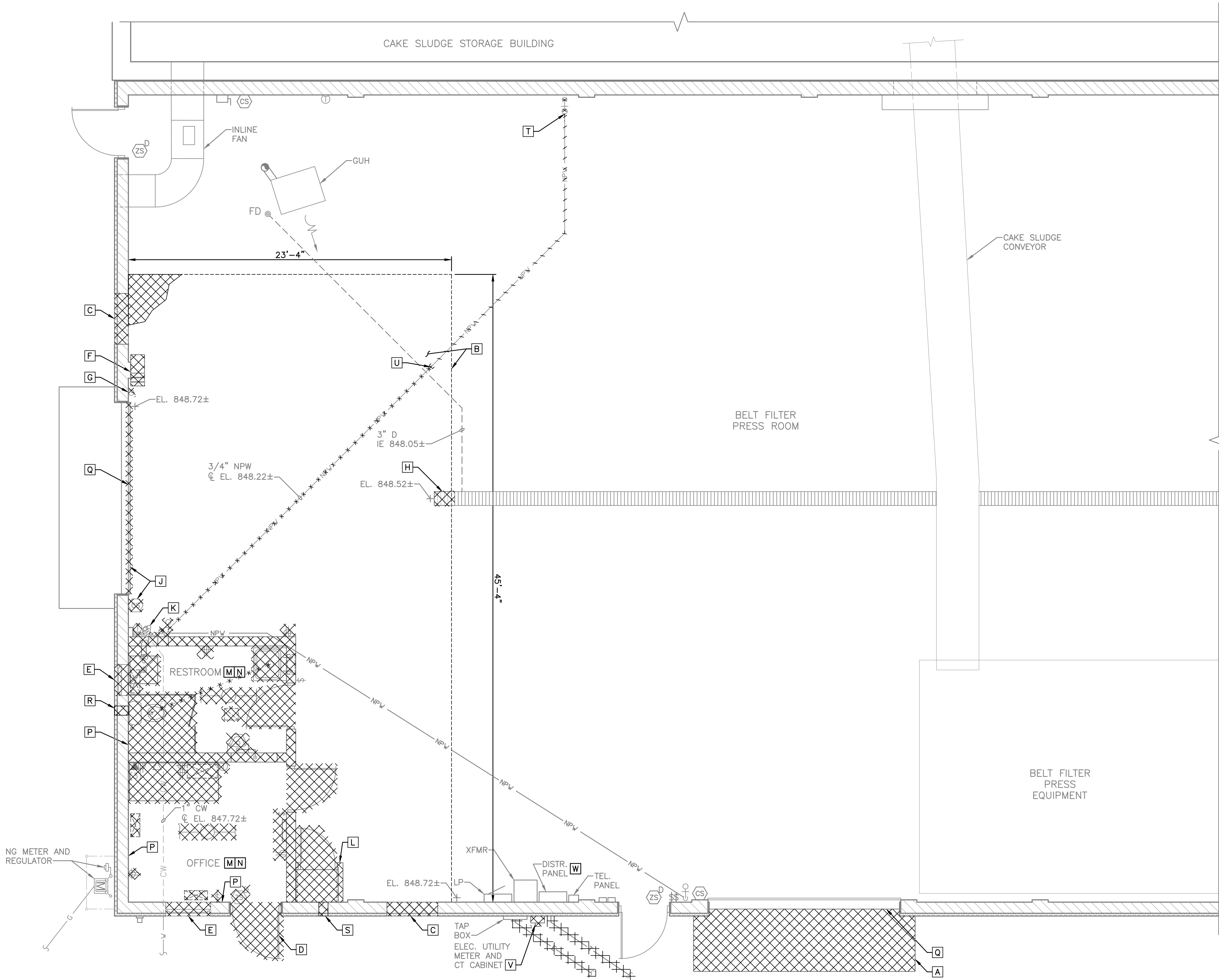
NOTE: DRAWING COORDINATES SHOWN ARE BASED ON THE STATE PLANE COORDINATES SYSTEM.

**SITE - LOCATION, GRADING, YARD PIPING, AND ELECTRICAL PLAN**  
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

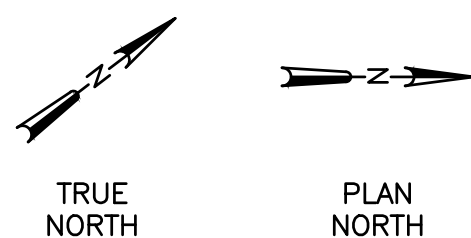
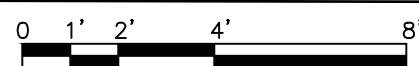
**JOB NO.**  
2679.002  
**PROJECT MGR.**  
BRENT SCHUSTER

**STRAND ASSOCIATES®**

**SHEET**  
7  
**05-CME1.01**



BUILDING DEMOLITION — FLOOR PLAN



GENERAL NOTES:

1. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS NOT BEING REUSED SHALL BE CAPPED AND ABANDON IN PLACE.

DEMOLITION NOTES:

- A REMOVE CONCRETE APRON SLAB AND 12" MIN. OF EXISTING BASE MATERIAL UNDER SLAB.
- B SAWCUT AND REMOVE CONCRETE FLOOR SLAB AND 6" OF BASE MATERIAL TO THE LIMITS SHOWN FOR NEW CONSTRUCTION.
- C SAWCUT AND REMOVE SECTION OF WALL AS REQUIRED FOR NEW DOOR OPENING, LINTEL, AND DOOR INSTALLATION. PROVIDE TEMPORARY SUPPORT FOR WALL ABOVE.
- D REMOVE DOOR, FRAME, AND HARDWARE.
- E REMOVE WINDOW, FRAME, AND HARDWARE.
- F REMOVE DUCTWORK AND SUPPORTS.
- G REMOVE FIRE EXTINGUISHER AND TURN OVER TO OWNER.
- H REMOVE TRENCH DRAIN AND GRATE TO THE EXTENT OF THE SAWCUT FLOOR SLAB REMOVAL AND PREPARE FOR NEW END OF TRENCH MODIFICATIONS SHOWN IN SECTION 2  
80-ASM3.01
- J REMOVE OVERHEAD SECTIONAL DOOR, OPERATOR, ASSOCIATED HARDWARE AND CONTROL STATION.
- K PROTECT EXISTING 1" W SUPPLY PIPING TO WATER METER AND PROTECT WATER METER FOR REUSE. DISCONNECT EXISTING GROUND WIRE AND CLAMP FROM WATER PIPING AND PRESERVE FOR REUSE. REMOVE ALL EXISTING WATER PIPING, SUPPORTS, AND APPURTENANCES FROM THE OUTLET SIDE OF THE WATER METER WITHIN THE BUILDING, EXCEPT FOR THE WATER SUPPLY PIPE RUNNING BENEATH THE FLOOR TO THE HOSE BIBB ON THE EAST WALL NEXT TO THE OVERHEAD DOOR. PROTECT THIS SUPPLY PIPE TO THE HOSE BIBB FOR REUSE.
- L COMPLETELY REMOVE EXISTING WOODEN CLOSET.
- M REMOVE ALL INTERIOR WALLS, CEILINGS AND APPURTENANCES OF THE RESTROOM AND OFFICE WITHIN THE BUILDING, INCLUDING ALL CONTENTS OF ROOMS, DOORS, PLUMBING FIXTURES, PIPING, HVAC EQUIPMENT, DUCTWORK, THERMOSTATS, ELECTRICAL DEVICES, RECEPTACLES, SWITCHES, LIGHT FIXTURES, AND ASSOCIATED HARDWARE.
- N REMOVE PLUMBING DRAIN, WASTE, VENT AND WATER SUPPLY PIPING ASSOCIATED WITH THE RESTROOM AND OFFICE BENEATH THE FLOOR TO EXTENTS REQUIRED TO CLEAR NEW CONSTRUCTION. REMAINING PLUMBING PIPING BENEATH THE FLOOR MAY BE ABANDONED IN ACCORDANCE WITH SPECIFICATIONS AND PROVIDED IT IS DISCONNECTED AND ISOLATED IN ACCORDANCE WITH APPLICABLE CODES.
- P REMOVE EXISTING WOOD PANELING, BASEBOARD, FURRING, GLUE AND ALL OTHER ASSOCIATED FASTENING HARDWARE FROM EXTERIOR BLOCK WALL SURFACES. CLEAN AND PREP WALLS FOR PAINTING AS SPECIFIED.
- Q REMOVE EXISTING JOINT FILLER FROM EDGE OF SLAB JOINT ALONG EXISTING CONCRETE APRON SLAB AND CLEAN SURFACE.
- R CORE HOLE THROUGH WALL FOR NEW 6" EA DUCT AS SHOWN ON OTHER DRAWINGS.
- S CORE HOLE THROUGH WALL FOR NEW 4" HIW PIPE AS SHOWN ON OTHER DRAWINGS.
- T REMOVE HOSE BIBB AND NPW PIPING AND CAP PIPE JUST ABOVE FLOOR.
- U REMOVE NPW PIPING BELOW FLOOR REMOVAL AREA TO EXTENTS SHOWN. CAP PIPE AT EDGE OF FLOOR REMOVAL AREA TO ABANDON REMAINING PORTION OF NPW PIPING BELOW EXISTING FLOOR TO HOSE BIBB.
- V REMOVE EXISTING UTILITY METER SOCKET AND CT CABINET.
- W PANEL SHALL BE REMOVED AS NOTED ON DRAWING 80-E1.01.

| NO. | REVISIONS               | DATE:      |  |  |  |  |  |  |
|-----|-------------------------|------------|--|--|--|--|--|--|
|     |                         | 10/20/2022 |  |  |  |  |  |  |
| 1   | ISSUED FOR OWNER REVIEW |            |  |  |  |  |  |  |

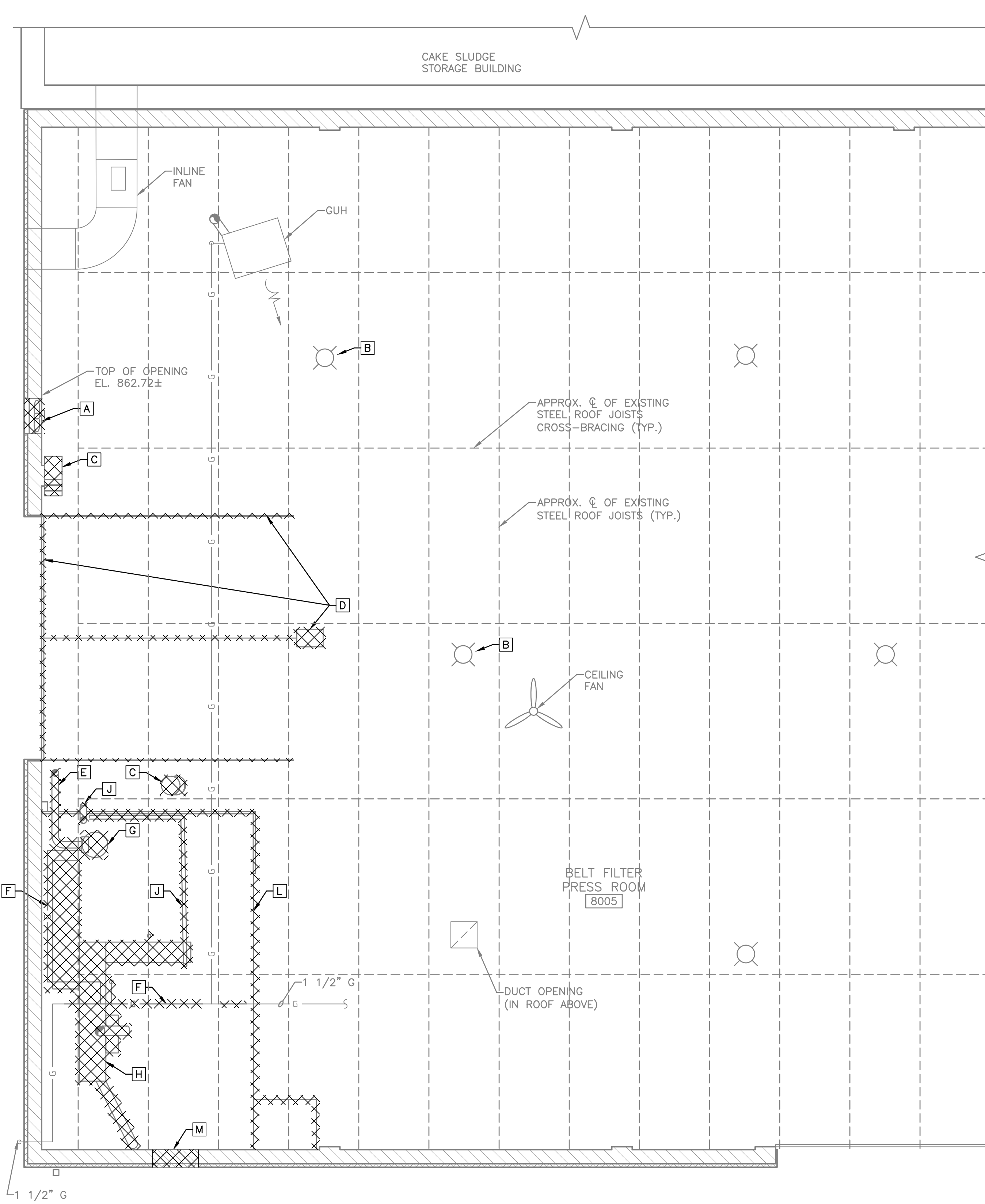
HAULED WASTE RECEIVING FACILITY  
BUILDING DEMOLITION - FLOOR PLAN  
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

JOB NO.  
2679.002

PROJECT MGR.  
BRENT SCHUSTER

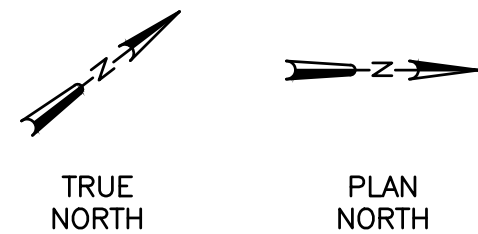


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80-D1.01



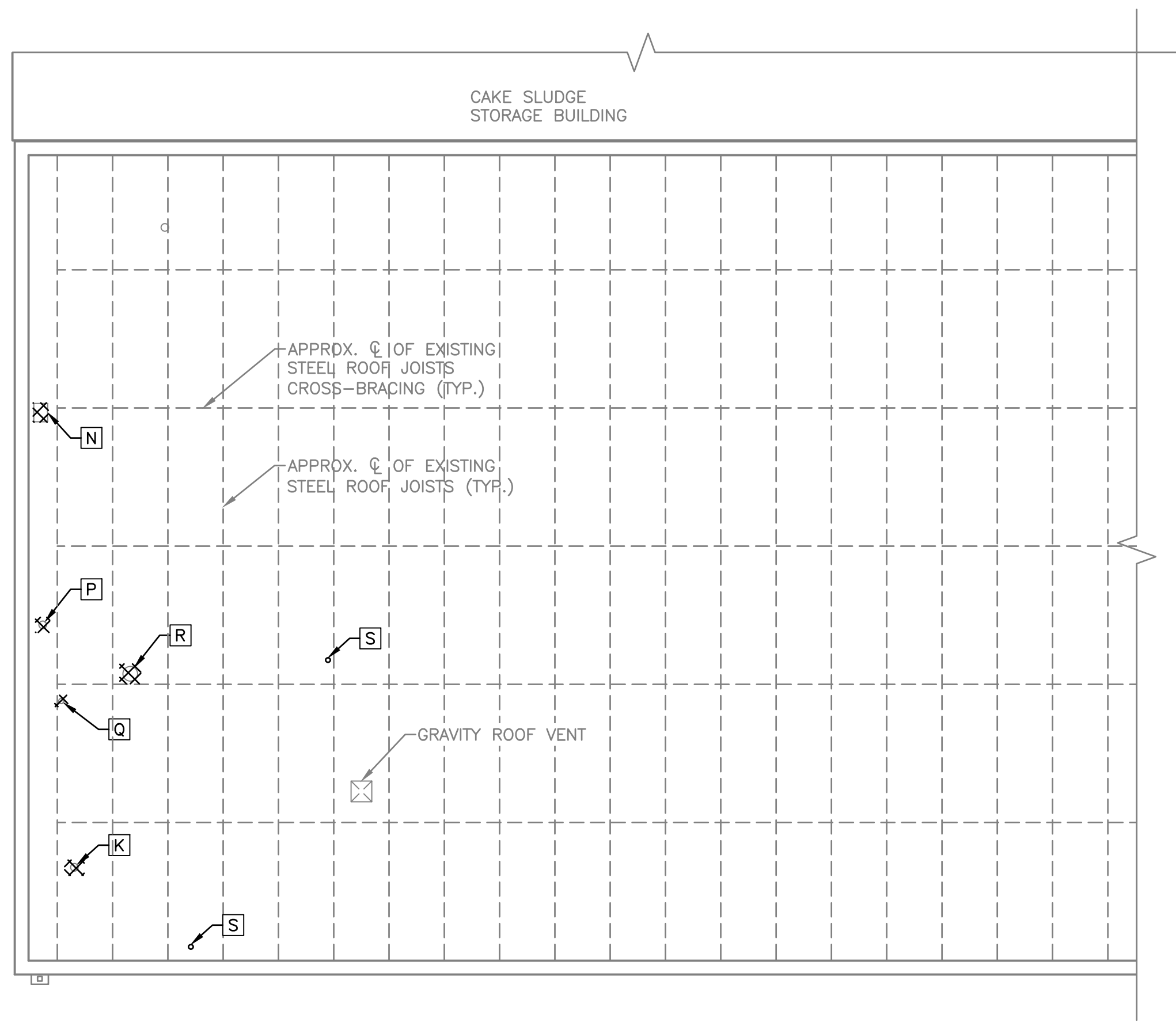
DEMOLITION — EQUIPMENT PLATFORM PLAN

0 1' 2' 4' 8'



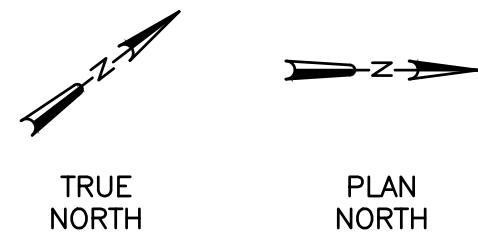
TRUE NORTH

PLAN NORTH



DEMOLITION — ROOF PLAN

0 2' 4' 8' 16'



TRUE NORTH

PLAN NORTH

GENERAL NOTES:

- EXISTING ROOF CONSISTS OF A CORRUGATED METAL ROOF DECK WITH TAPERED POLY-ISO INSULATION AND ADHERED RUBBER MEMBRANE.
- REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS NOT BEING REUSED SHALL BE CAPPED AND ABANDON IN PLACE.

DEMOLITION NOTES:

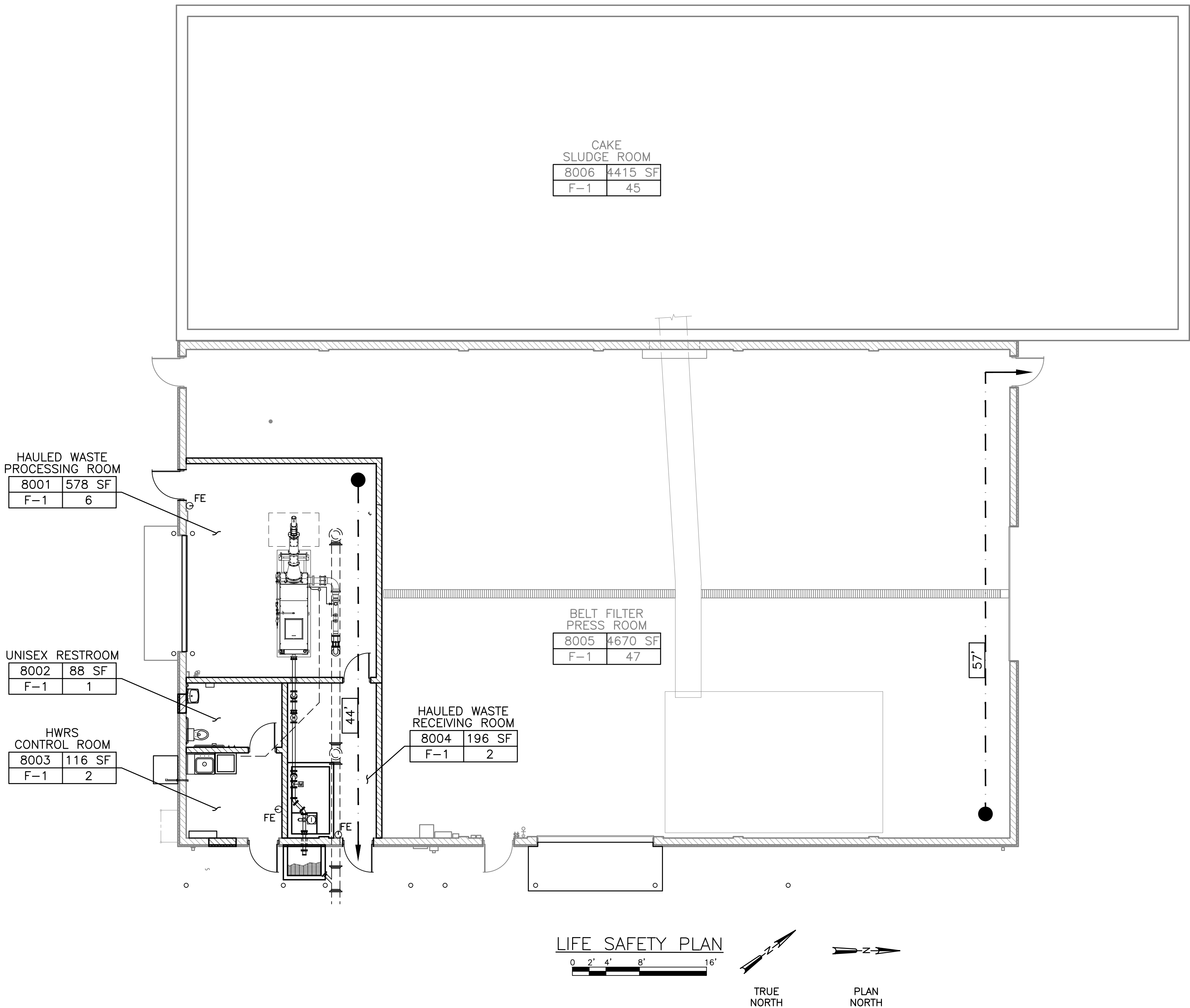
- REMOVE EXHAUST FAN, DAMPER, AND ASSOCIATED HARDWARE FROM WALL OPENING.
- REMOVE AND RELOCATE LIGHT FIXTURE TO CLEAR NEW CONSTRUCTION. REFER TO DRAWING 80-E1.02 FOR NEW LOCATION. MODIFY AND EXTEND EXISTING CONDUIT AND WIRING TO NEW LOCATION AS REQUIRED TO MAINTAIN EXISTING FUNCTIONALITY.
- REMOVE DUCTWORK AND SUPPORTS TO JUST BELOW METAL ROOF DECK AND CAP DUCT AT CEILING WITH MATCHING GALVANIZED DUCT MATERIAL. PROVIDE 4" MIN. OF POLY-ISO (R-20 MIN.) INSULATION IN DUCT ABOVE CEILING CAP, ALIGNED WITH METAL ROOF DECK.
- REMOVE OVERHEAD SECTIONAL DOOR, TRACKS, RAILS, SUPPORTS, MOTOR OPERATOR, CONTROLS AND RELATED HARDWARE.
- REMOVE COMBUSTION AIR AND VENT PIPING AND SUPPORTS FROM WATER HEATER TO JUST BELOW METAL ROOF DECK AND CAP AT CEILING WITH MATCHING GALVANIZED PIPE MATERIAL. PROVIDE 4" MIN. OF POLY-ISO. (R-20 MIN.) INSULATION TO FILL PIPING ABOVE CEILING CAP, ALIGNED WITH METAL ROOF DECK.
- REMOVE NATURAL GAS PIPING, SUPPORTS, AND HARDWARE FROM WATER HEATER AND AIR HANDLING EQUIPMENT BACK TO NATURAL GAS MAIN. REMOVE ALL NATURAL GAS PIPING IN THIS AREA AS NECESSARY FOR CONNECTION OF NEW NATURAL GAS PIPING SHOWN ON OTHER DRAWINGS.
- REMOVE WATER HEATER AND APPURTENANCES.
- REMOVE AIR HANDLING EQUIPMENT, DUCTWORK AND ACCESSORIES. REMOVE ASSOCIATED COMBUSTION AIR AND VENT PIPING FROM EQUIPMENT THROUGH ROOF.
- REMOVE PLUMBING VENT PIPING UP THROUGH ROOF.
- REMOVE CONCENTRIC VENT, CHIMNEY, AND STACK PIPING. PRESERVE FLASHING AND ROOF CURB FOR REUSE WITH NEW COMBUSTION AIR AND VENT PIPING FOR MAU-80-01 AS SHOWN ON OTHER DRAWINGS.
- REMOVE ALL INTERIOR WALLS, CEILINGS, EQUIPMENT PLATFORM AND APPURTENANCES ABOVE THE RESTROOM AND OFFICE WITHIN THE BUILDING, INCLUDING ALL CONTENTS OR ROOMS, DOORS, PLUMBING FIXTURES, PIPING, HVAC EQUIPMENT, DUCTWORK, THERMOSTATS, ELECTRICAL DEVICES, RECEPTACLES, SWITCHES, LIGHT FIXTURES, AND ASSOCIATED HARDWARE.
- SAWCUT AND REMOVE SECTION OF WALL AS REQUIRED FOR NEW SA DUCT, LOUVER, DAMPER, AND LINTEL AS SHOWN ON OTHER DRAWINGS. TEMPORARILY BRACE WALL AS NEEDED.
- REMOVE GRAVITY ROOF VENT AND ASSOCIATED HARDWARE FROM EXISTING ROOF CURB. CAP ROOF VENT DUCT WITH MATCHING GALVANIZED STEEL CAP SEALED WEATHERTIGHT.
- REMOVE CONCENTRIC VENT PIPING TO JUST ABOVE EXISTING CURB OR ROOF FLASHING/BOOT. CAP WEATHERTIGHT ABOVE ROOFING SEAL WITH MATCHING GALVANIZED PIPE MATERIAL.
- REMOVE EXISTING PLUMBING VENT PIPE. PRESERVE EXISTING ROOF FLASHING AND ROOF PENETRATION FOR REUSE WITH NEW VENT PIPE AS SHOWN ON OTHER DRAWINGS.
- REMOVE EXISTING GRAVITY ROOF VENT FROM EXISTING ROOF CURB. CAP ROOF VENT DUCT WITH MATCHING GALVANIZED STEEL CAP SEALED WEATHERTIGHT.
- CORE DRILL ROOF FOR PLUMBING VENT PIPE PENETRATION WHERE SHOWN ON OTHER DRAWINGS.

HAULED WASTE RECEIVING FACILITY  
BUILDING DEMOLITION - EQUIPMENT PLATFORM AND ROOF PLAN  
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

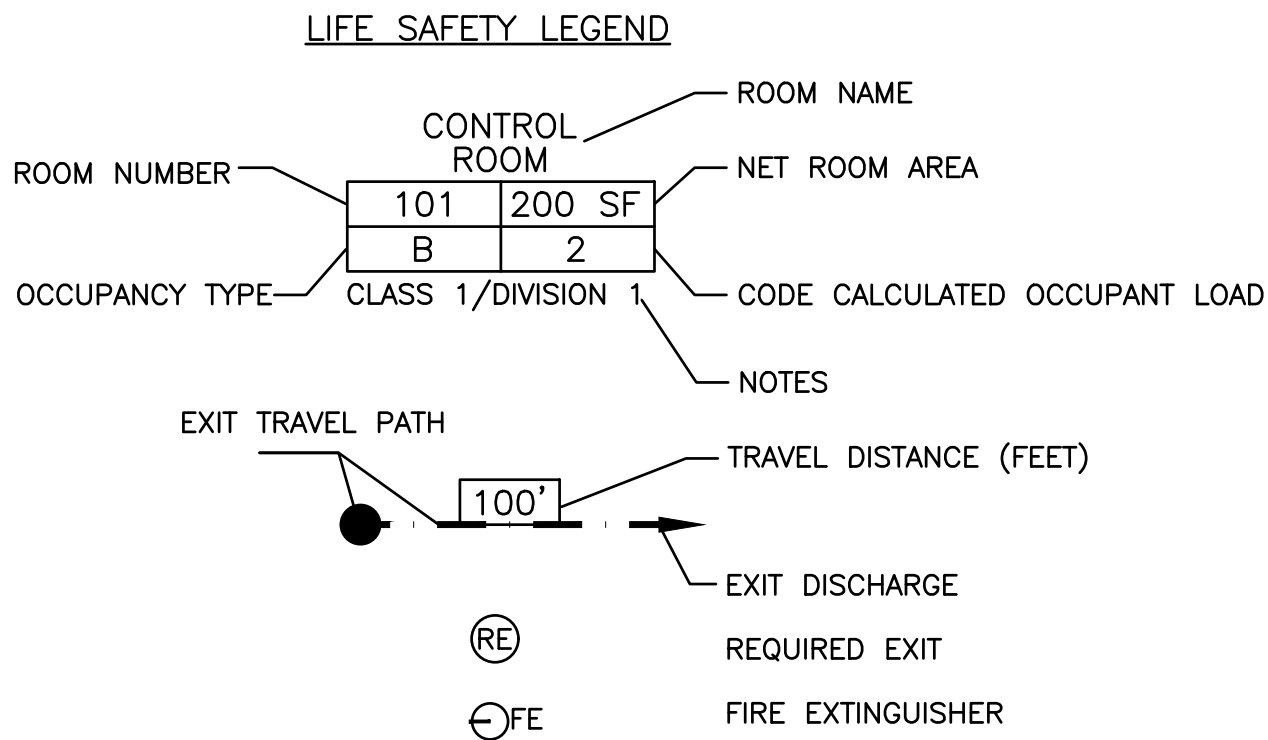
JOB NO.  
2679.002  
PROJECT MGR.  
BRENT SCHUSTER



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80-D1.02

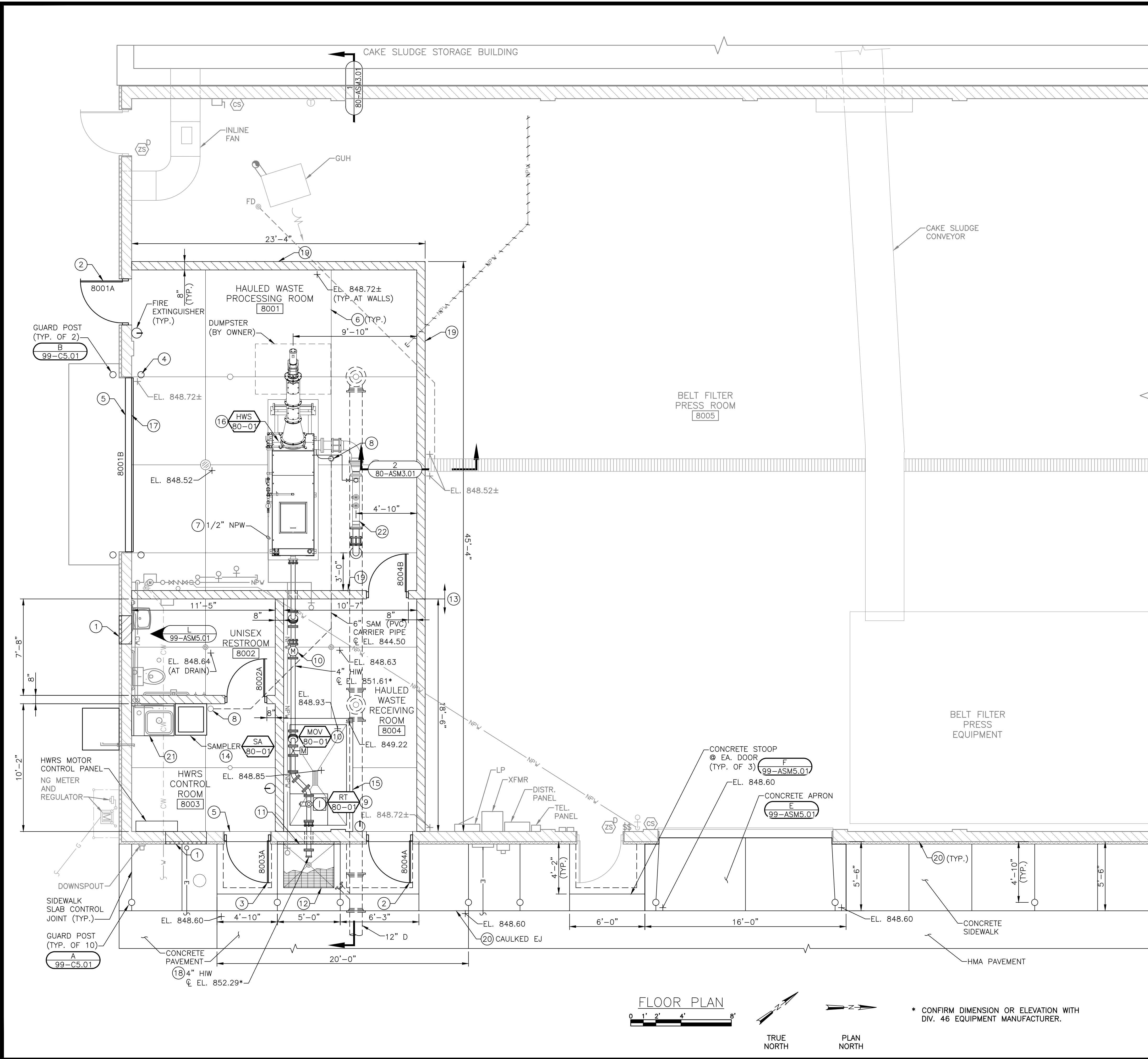


| BUILDING CODE INFORMATION                                                                                      |                                                                          |                                         |                                |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------|--------------------------------|
| BUILDING CODE                                                                                                  | 2015 INTERNATIONAL BUILDING CODE (SPS 362)                               |                                         |                                |
|                                                                                                                | 2015 INTERNATIONAL MECHANICAL CODE (SPS 364)                             |                                         |                                |
|                                                                                                                | WISCONSIN PLUMBING CODE (SPS 382)                                        |                                         |                                |
|                                                                                                                | 2015 INTERNATIONAL FIRE CODE                                             |                                         |                                |
|                                                                                                                | 2017 NATIONAL ELECTRICAL CODE (SPS 316)                                  |                                         |                                |
|                                                                                                                | 2015 INTERNATIONAL FUEL GAS CODE (SPS 365)                               |                                         |                                |
|                                                                                                                | 2015 INTERNATIONAL ENERGY CONSERVATION CODE (SPS 363)                    |                                         |                                |
| ICC / ANSI A117.1-2010 AND 2015 IBC CHAPTER 11-ACCESSIBILITY                                                   |                                                                          |                                         |                                |
| SCOPE OF WORK:                                                                                                 |                                                                          |                                         |                                |
| LEVEL 2 ALTERATION OF SOUTHEAST PORTION OF EXISTING WASTE RECOVERY FACILITY.                                   |                                                                          |                                         |                                |
|                                                                                                                |                                                                          |                                         |                                |
| OCCUPANCY TYPE                                                                                                 | NON-SEPARATED USE                                                        |                                         |                                |
| USE GROUPS                                                                                                     | GROUP F-1: MODERATE-HAZARD FACTORY INDUSTRIAL                            |                                         |                                |
|                                                                                                                |                                                                          |                                         |                                |
| OCCUPANCY TYPE                                                                                                 | V-B                                                                      |                                         |                                |
| HAZARDOUS MATERIALS:                                                                                           | PRESENT                                                                  |                                         |                                |
|                                                                                                                |                                                                          |                                         |                                |
| CHEMICAL °                                                                                                     | CHEMICAL CLASSIFICATION                                                  | MAX. CONTROL AREA QUANTITY <sup>b</sup> | ACTUAL QUANTITY <sup>a</sup>   |
| UNITED 366 GOOD NEWS                                                                                           | CORROSIVE                                                                | 500 GALLONS                             | 55 GALLONS                     |
| UNITED 661 POLYMER SOLVENT                                                                                     | CORROSIVE                                                                | 500 GALLONS                             | 220 GALLONS                    |
| NOTES:                                                                                                         |                                                                          |                                         |                                |
| a. ACTUAL QUANTITY IS FOR COMBINED STORAGE AND CLOSED SYSTEMS USE.                                             |                                                                          |                                         |                                |
| b. CONTROL AREA QUANTITY PER TABLE 307.1(1) / 307.1(2).                                                        |                                                                          |                                         |                                |
| c. CHEMICALS LISTED ARE LOCATED / STORED IN EXISTING BELT FILTER PRESS ROOM (NOT IN PROJECT SCOPE).            |                                                                          |                                         |                                |
| NON-HAZARDOUS MATERIALS:                                                                                       |                                                                          |                                         |                                |
|                                                                                                                |                                                                          |                                         |                                |
| CHEMICAL                                                                                                       | CHEMICAL CLASSIFICATION                                                  | MAX. CONTROL AREA QUANTITY              | ACTUAL QUANTITY                |
| AQUACHEM DP 1672 (POLYMER)                                                                                     | NOT HAZARDOUS                                                            | NOT REGULATED                           | 4,000 LBS.                     |
| OCCUPANCY SEPARATION - NOT REQUIRED                                                                            |                                                                          |                                         |                                |
| GENERAL BUILDING INFORMATION                                                                                   |                                                                          |                                         |                                |
| NO. OF STORIES                                                                                                 | ALLOWABLE<br>1 STORIES                                                   |                                         | ACTUAL<br>1 STORY <sup>1</sup> |
| HEIGHT                                                                                                         | 40'-0" FEET                                                              |                                         | 16'-8" (TOP OF MASONRY WALL)   |
| AREA PER FLOOR (NET SF)                                                                                        |                                                                          |                                         |                                |
| F-1 (EXIST. NOT ALTERED)                                                                                       | 9,085 SF <sup>3</sup>                                                    |                                         |                                |
| F-1 (PROJECT ALTERATION)                                                                                       | 978 SF <sup>3</sup>                                                      |                                         |                                |
| TOTAL ALLOWABLE AREA PER FLOOR LEVEL                                                                           |                                                                          |                                         |                                |
|                                                                                                                | 14,875 SF <sup>2</sup>                                                   | TOTAL ACTUAL AREA (GROSS SF)            | 10,885 SF <sup>3</sup>         |
| PUBLIC WAYS OR YARDS                                                                                           | ACCESSIBLE FROM 4 SIDES, MIN. 30-FOOT ACCESS WIDTH                       |                                         |                                |
| FIRE SUPPRESSION SYSTEM                                                                                        |                                                                          |                                         |                                |
| AUTOMATIC FIRE SUPPRESSION SYSTEM - NOT PROVIDED                                                               |                                                                          |                                         |                                |
| PORTABLE FIRE EXTINGUISHERS, RATED CLASS A, B, C; 10-POUND CAPACITY.                                           |                                                                          |                                         |                                |
| NUMBER OF OCCUPANTS                                                                                            |                                                                          |                                         |                                |
| OCCUPANT LOAD FACTOR                                                                                           | INDUSTRIAL AREAS: 100 GROSS                                              |                                         |                                |
| OCCUPANT CALCULATION - SEE PLANS                                                                               |                                                                          |                                         |                                |
| ACTUAL NUMBER OF OCCUPANTS                                                                                     | ZERO PERMANENT OCCUPANTS. ONLY PRESENT DURING MAINTENANCE AND OPERATION. |                                         |                                |
| EXIT ACCESS TRAVEL DISTANCE                                                                                    | EXIT ACCESS                                                              | COMMON PATH                             |                                |
|                                                                                                                | F-1                                                                      | 200 FEET                                | 75 FEET                        |
| EXITS:                                                                                                         |                                                                          |                                         |                                |
| ALL SPACES/OCCUPANCIES REQUIRE 1 EXIT.                                                                         |                                                                          |                                         |                                |
| NOTES:                                                                                                         |                                                                          |                                         |                                |
| 1. EQUIPMENT PLATFORM NOT CONSIDERED A STORY PER IBC SECTION 505.3.                                            |                                                                          |                                         |                                |
| 2. TOTAL ALLOWABLE AREA INCLUDES FRONTAGE INCREASE PER IBC SECTION 503.                                        |                                                                          |                                         |                                |
| 3. PROJECT AREA DOES NOT INCREASE OVERALL BUILDING AREA, OR HEIGHT, AND DOES NOT CHANGE OCCUPANCY OF BUILDING. |                                                                          |                                         |                                |



HAULED WASTE RECEIVING FACILITY  
LIFE SAFETY PLAN AND CODE SUMMARY  
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

JOB NO.  
2679.002  
PROJECT MGR.  
BRENT SCHUSTER  
STRAND ASSOCIATES®  
SHEET  
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80-ASM1.01



GENERAL NOTES:

- WHERE CMU BLOCK WALLS ABUT EXISTING WALLS, PROVIDE 345-BT FLEXIBLE TIE BY HOHMANN & BARNARD, OR EQUAL, @ 16" O.C. TO ALIGN AND LAP WITH UNIT MASONRY HORIZONTAL WIRE REINFORCEMENT AS SPECIFIED. RAKE BACK VERTICAL MORTAR JOINT ON EACH SIDE OF WALL 1/2" AND CAULK FULL HEIGHT OF WALL.
- ALL 8" CMU WALLS SHALL BE REINFORCED WITH 9 GAUGE LADDER STYLE HORIZONTAL JOINT REINFORCING SPACED AT 16" O.C. VERTICALLY (EVERY OTHER COURSE). UNLESS NOTED OTHERWISE, ALL 8" CMU WALLS SHALL BE REINFORCED WITH #4@48" VERTICAL REINFORCING FULL HEIGHT CENTERED IN WALL. GROUT CORES AT REINFORCING AND LAP BARS 2'-0". PROVIDE #4@48" X 2'-6" LONG DRILLED ADHESIVE ANCHOR DOWELS AT BOTTOM OF WALL TO MATCH VERTICAL REINFORCING, EMBEDDED 4" IN FLOOR SLAB. PROVIDE REBAR POSITIONERS TO CENTER REINFORCING IN CMU CORES.
- SEE PLUMBING DRAWINGS FOR FLOOR DRAINS.

KEY NOTES:

- INFILL WINDOW OPENING IN WALL WITH CMU BLOCK AND EXTERIOR STUCCO FACING TO MATCH ADJACENT WALL CONSTRUCTION.
- PROVIDE NEW DOOR, DOOR FRAME, DOOR HARDWARE AND LINTEL IN EXISTING WALL. PROVIDE BULLNOSE BLOCK AT INSIDE DOORWAY CORNERS. PATCH CMU BLOCK AND EXTERIOR STUCCO TO MATCH ADJACENT WALL CONSTRUCTION.
- PROVIDE NEW DOOR, DOOR FRAME, AND DOOR HARDWARE IN EXISTING DOOR OPENING. PATCH CMU BLOCK AND EXTERIOR STUCCO TO MATCH ADJACENT WALL CONSTRUCTION AS REQUIRED.
- INSTALL GUARD POSTS AT EACH SIDE OF OVERHEAD DOOR OPENING IN ACCORDANCE WITH DETAIL 99-C5.01 TOOL OR CUT CRACK CONTROL JOINT IN FLOOR SLAB UP TO EACH POST.
- PROVIDE 1/2-INCH EXP. FILLER, HOLD DOWN 1/2-INCH AND CAULK WITH SELF-LEVELLING CAULK AT PERIMETER OF FLOOR SLAB AT SOUTH AND EAST EXTERIOR WALLS.
- SLAB SAWN CONTROL JOINT PER DETAIL 99-ASM5.01 (TYP.). LOCATE 10'-0" O.C. MAX. EACH WAY.
- ROUTE 1 1/2" NPW PIPING TO HWS-80-01 WASH WATER SUPPLY CONNECTION. PROVIDE REDUCING FITTINGS, SHUT-OFF VALVE, AND UNION CONNECTION TO HWS-80-01 AS REQUIRED BY EQUIP. MFR.
- PROVIDE 6" SCH. 40 PVC CARRIER PIPE FOR SAMPLE TUBING WITH LONG-RADIUS SWEEP BENDS ROUTED BELOW FLOOR SLAB FROM HWS-80-01 TO SA-80-01. LOCATE CARRIER PIPE NEXT TO SA-80-01 A MINIMUM OF 1'-6" CLEAR FROM STRIKE SIDE OF DOOR 8002A. ROUTE SAMPLE TUBING THROUGH CARRIER PIPE AND CONNECT TO SA-80-01 AND HWS-80-01 AT SAMPLE TAP ON OUTLET PIPE. PROVIDE SEALED REMOVABLE CAP TERMINATION ON EACH END OF PVC CARRIER PIPE AS SHOWN IN DETAIL 80-ASM3.01.
- ROCK TRAP ASSEMBLY AND APPURTENANCES FURNISHED BY HAULED WASTE RECEIVING EQUIPMENT MANUFACTURER AS SPECIFIED. PROVIDE EQUIPMENT PAD UNDER ROCK TRAP PER DETAIL 99-ASM5.01.
- INLINE MAGNETIC FLOW METER AND MOTOR OPERATED VALVE FURNISHED BY HAULED WASTE RECEIVING EQUIPMENT MANUFACTURER AS SPECIFIED. PROVIDE RESTRAINED FLANGED COUPLING ADAPTER AS INDICATED TO CONNECT TO HIW PIPING.
- PROVIDE 4'-0" WIDE X 6'-0" HIGH FRP WALL PANEL ATTACHED TO EXTERIOR FACE OF STUCCO WALL WITH CONSTRUCTION ADHESIVE CENTERED ON NEW 4" HIW PIPE. PROVIDE TRIM ON EDGES OF FRP PANEL AND AROUND PIPE AS SPECIFIED. SEAL ALL EDGES WATERTIGHT WITH CAULK.
- PROVIDE EMBEDDED ALUMINUM GRATING OVER CONTAINMENT AREA FLUSH WITH ADJACENT SIDEWALK PER DETAIL 99-ASM5.01.
- MASONRY WALLS WEST OF THIS LINE SHALL BE CONSTRUCTED TO FULL HEIGHT TERMINATING AT UNDERSIDE OF EXISTING METAL ROOF DECK. MASONRY WALLS EAST OF THIS LINE SHALL BE CONSTRUCTED TO TERMINATE AT TOP OF WALL EL. 857.39.
- PROVIDE SAMPLER AS SPECIFIED IN DIV. 46. PROVIDE 4" HIGH EQUIPMENT PAD BELOW SAMPLER PER DETAIL 99-ASM5.01.
- 4'-6" X 8'-0" (INSIDE) CONTAINMENT AREA WITH 6" WIDE PERIMETER CONCRETE CONTAINMENT CURB AS SHOWN. PROVIDE 4,000 PSI CONCRETE FILL INSIDE CURB SLOPED TO FLOOR DRAIN. SEE 80-ASM3.01 FOR DETAILS.
- HAULED WASTE SCREEN UNIT (HWS-80-01) AS SPECIFIED.
- PROVIDE NEW OVERHEAD SECTIONAL DOOR (OSD) AS SPECIFIED. FINISH CONCRETE FLOOR SLAB LEVEL AT OSD THRESHOLD AND SLOPE FROM SEAL SURFACE TO EXTERIOR APRON. MOUNT OSD TRACK TO EXISTING WALLS WITH STAINLESS STEEL MASONRY ANCHORS AND HARDWARE. PROVIDE FIBERGLASS, PVC, OR STAINLESS STEEL TRIM AND FURRING AT DOOR OPENING EDGES AND MATING SURFACES. CAULK PERIMETER EDGES OF TRIM TO SEAL ALL EDGES.
- PROVIDE 4" STAINLESS STEEL QUICK CONNECT COUPLING WITH DUST CAP AS SPECIFIED.
- TERMINATE TOP OF CMU WALL AT EXISTING ROOF DECK PER 99-ASM5.02 WHERE JOISTS PENETRATE THROUGH WALL, FLASH PER 99-ASM5.02.
- PROVIDE 1/2" EXP. JOINT BETWEEN SIDEWALK AND PERIMETER BUILDING WALLS, AND BETWEEN SIDEWALK AND DRIVEWAY CONCRETE PAVEMENT. HOLD DOWN 1/2" AND CAULK.
- PROVIDE COUNTERTOP BETWEEN WALL AND SAMPLER FOR DROP-IN SINK. MOUNT COUNTERTOP AT 36" AFF WITH SUPPORT BRACKETS AND MASONRY ANCHORS AS SPECIFIED. PROVIDE BACKSPLASH AT WALLS.
- INSTALL PREFABRICATED DISCHARGE PIPING ASSEMBLY PROVIDED BY HWS-80-01 EQUIPMENT MANUFACTURER WHERE SHOWN. CONTRACTOR SHALL PROVIDE CONNECTING PIPE SPOOL AND RESTRAINED FLANGE COUPLING ADAPTER AT CONNECTION TO HWS-80-01 TANK OUTLET FLANGE ON OUTLET END OF PIPE ASSEMBLY AS SHOWN.

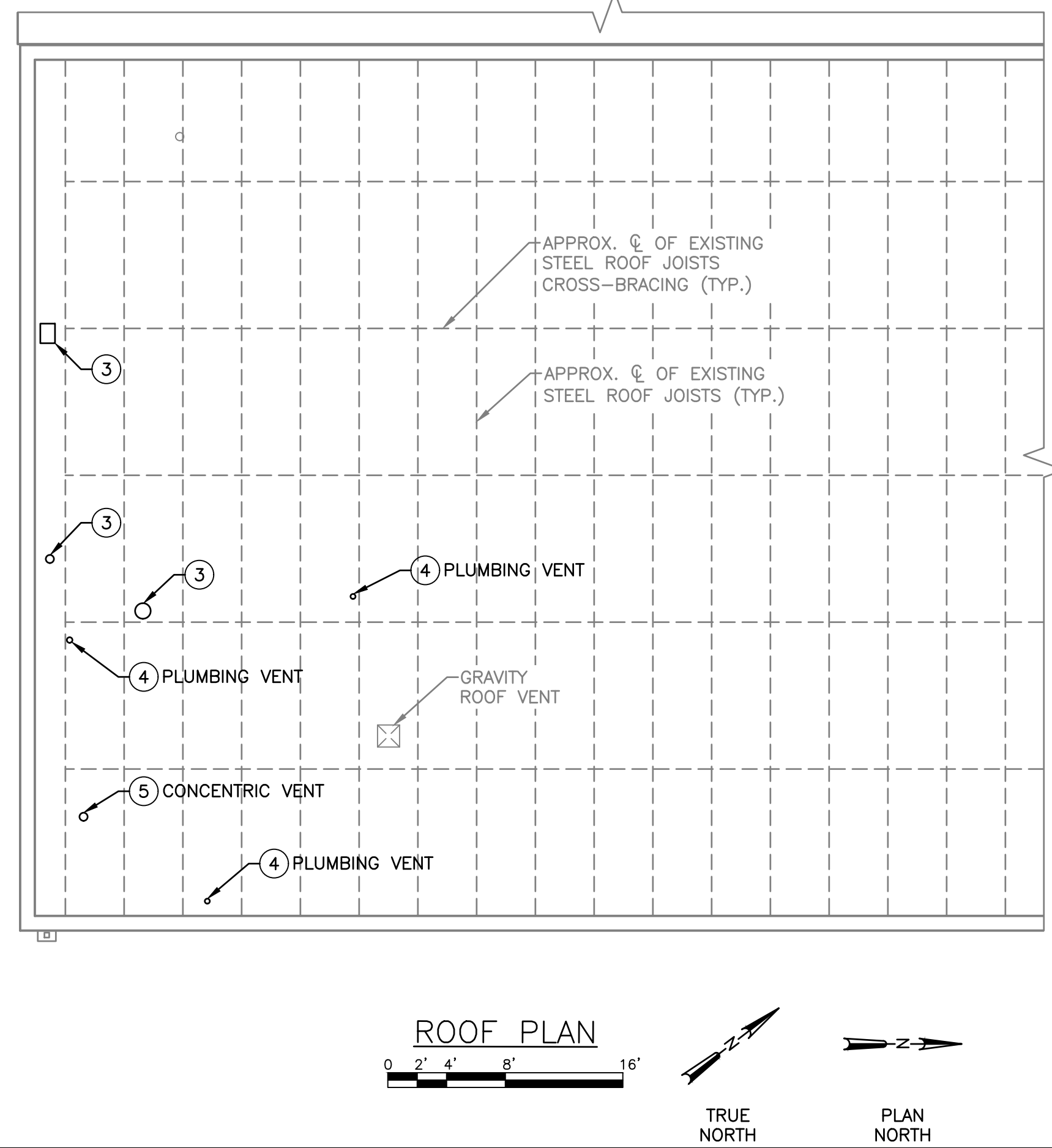
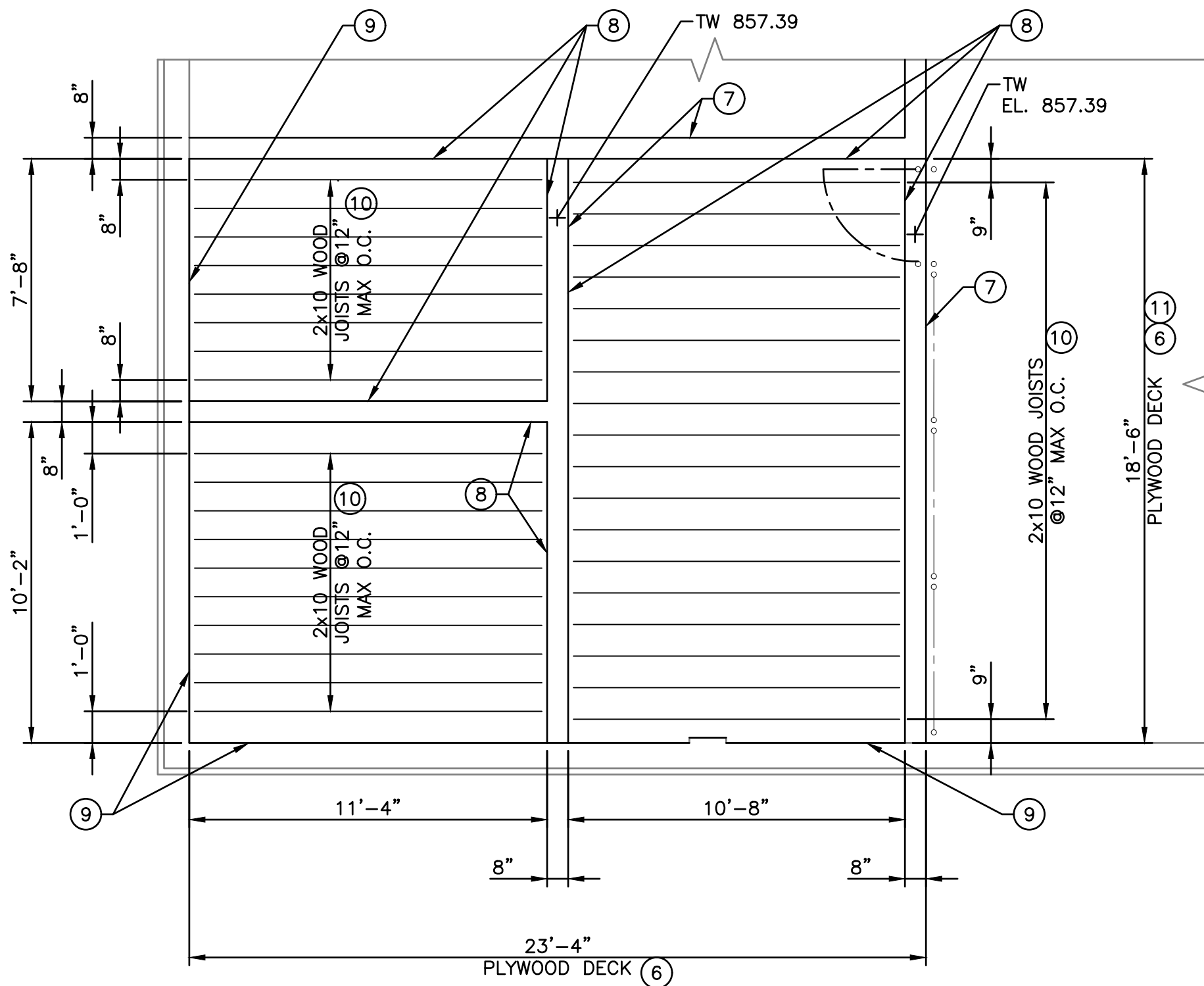
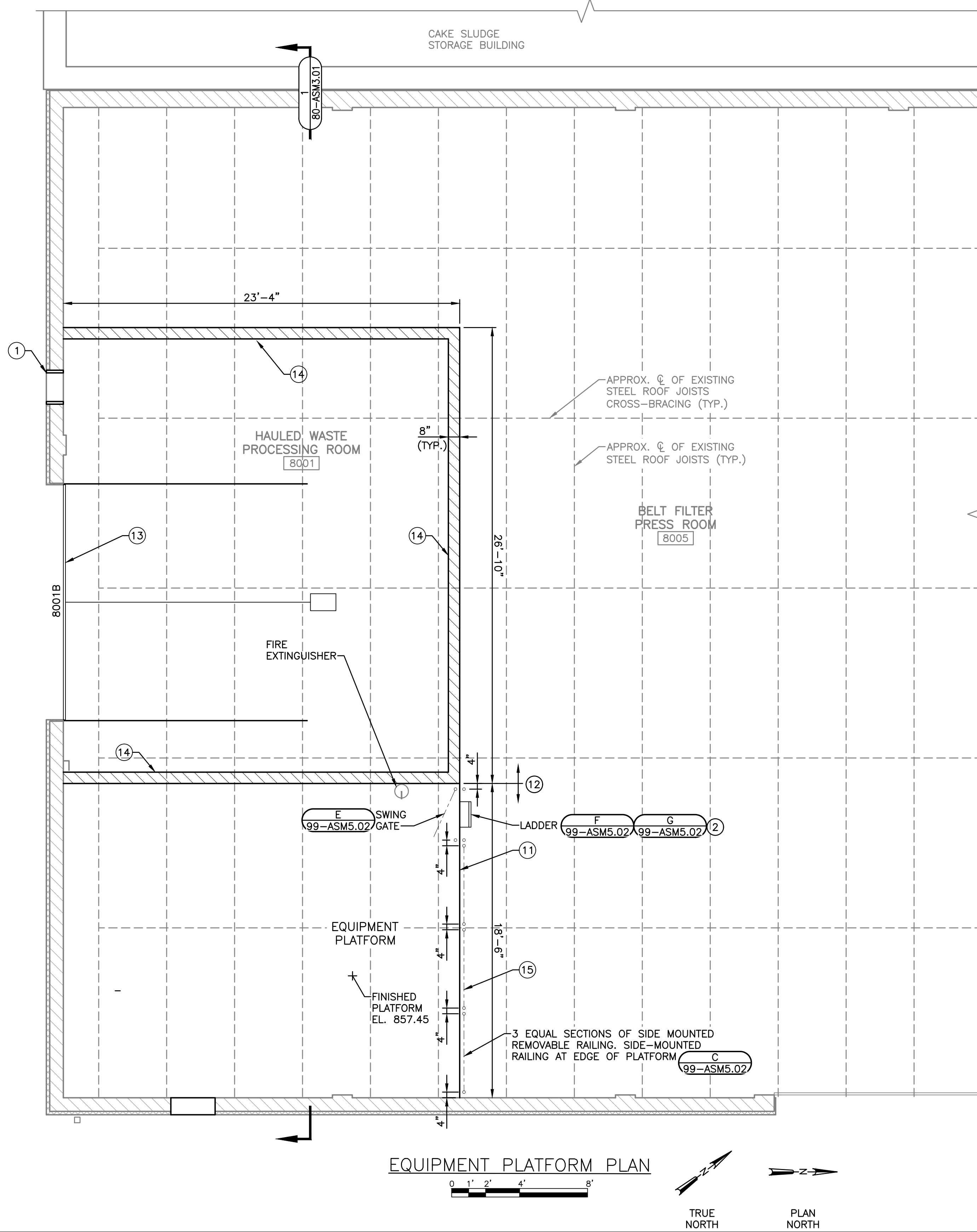
HAULED WASTE RECEIVING FACILITY  
FLOOR PLAN  
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

JOB NO.  
2679.002  
PROJECT MGR.  
BRENT SCHUSTER



SHEET  
11  
80-ASM1.02

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GENERAL NOTES:

- WHERE CMU BLOCK WALLS ABUT EXISTING WALLS, PROVIDE 345-BT FLEXIBLE TIE BY HOHMANN & BARNARD, OR EQUAL, @ 16" O.C. TO ALIGN AND LAP WITH UNIT MASONRY HORIZONTAL WIRE REINFORCEMENT AS SPECIFIED. RAKE BACK VERTICAL MORTAR JOINT ON EACH SIDE OF WALL 1/2" AND CAULK FULL HEIGHT OF WALL.
- ALL 8" CMU WALLS SHALL BE REINFORCED WITH 9 GAUGE LADDER STYLE HORIZONTAL JOINT REINFORCING SPACED AT 16" O.C. VERTICALLY (EVERY OTHER COURSE). UNLESS NOTED OTHERWISE, ALL 8" CMU WALLS SHALL BE REINFORCED WITH #4@48" VERTICAL REINFORCING FULL HEIGHT CENTERED IN WALL. GROUT CORES AT REINFORCING AND LAP BARS 2'-0". PROVIDE #4@48" X 2'-6" LONG DRILLED ADHESIVE ANCHOR DOWELS AT BOTTOM OF WALL TO MATCH VERTICAL REINFORCING, EMBEDDED 4" IN FLOOR SLAB. PROVIDE REBAR POSITIONERS TO CENTER REINFORCING IN CMU CORES.
- COORDINATE ALL PENETRATIONS IN EQUIPMENT PLATFORM. BLOCK OUT AROUND PENETRATIONS WITH 2X10 BOARDS.

KEY NOTES:

- PREPARE AND PAINT EXISTING STEEL LINTEL IN EXISTING WALL OPENING. INFILL SIDES AND BOTTOM OF OPENING WITH CMU BLOCK AND EXTERIOR METAL FACING AND FLASHING MATERIALS TO MATCH EXISTING TO CREATE OPENING FOR NEW EXHAUST DUCT AND LOUVER AS SHOWN ON DWG. 80-HP1.02.
  - CONTRACTOR SHALL FIELD MEASURE FROM EXISTING FLOOR TO PLATFORM TO VERIFY HEIGHT OF THE LADDER WITH SUPPLIER.
  - CAP EXISTING HVAC DUCT OR PLUMBING PIPE WEATHERTIGHT. REFER TO DRAWINGS 80-D1.02 AND 80-HP1.02 FOR ADDITIONAL DETAIL.
  - NEW PLUMBING VENT. SEE DRAWING 80-HP1.02 FOR ADDITIONAL DETAIL.
  - NEW CONCENTRIC VENT ASSEMBLY. SEE DRAWING 80-HP1.02 FOR ADDITIONAL DETAIL.
  - PROVIDE 3/4" PLYWOOD DECKING OVER FULL EQUIPMENT PLATFORM SURFACE. FASTEN PLYWOOD DECK TO WOOD JOISTS WITH 10D NAILS @ 6" O.C. PLYWOOD TO EXTEND CONTINUOUS OVER MASONRY WALLS.
  - PROVIDE CONTINUOUS CMU BOND BEAM TOP COURSE OF INTERIOR WALLS BELOW EQUIPMENT PLATFORM AND AT WEST FULL HEIGHT WALL AT THE SAME ELEVATION. REINFORCE BOND BEAMS WITH 2 ~ #5 BARS CONTINUOUS AND GROUT BOND BEAM FULL. FINISH TOP OF BOND BEAM FLAT AT ELEVATION SHOWN. WOOD JOISTS SHALL BE MOUNTED FLUSH WITH TOP OF CMU BLOCK WALLS.
  - 2X10 LEDGER BOARD ANCHORED TO CMU BOND BEAM WITH 1/2" DIA. HILTI HAS THREADED RODS WITH HIT-HY 270 ADHESIVE @ 12" MAX. O.C. BETWEEN JOISTS. EFFECTIVE EMBEDMENT OF 4 1/2" AND PROVIDE WASHER AND NUT ON FACE OF LEDGER BOARD.
  - 2X10 LEDGER BOARD ANCHORED TO EXISTING CMU WITH 1/2" DIA. HILTI HAS THREADED RODS WITH HIT-HY 270 ADHESIVE @ 12" MAX. O.C. BETWEEN JOISTS. WHERE EXISTING CMU IS GROUTED, PROVIDE EFFECTIVE EMBEDMENT OF 4 1/2". WHERE EXISTING CMU IS HOLLOW, PROVIDE HIT-SC 18X50 SCREEN TUBE. PROVIDE WASHER AND NUT ON FACE OF LEDGER BOARD.
  - FASTEN 2X10 JOISTS TO LEDGER BOARDS USING LU28 JOIST HANGERS WITH 8-10D X 1.5" NAILS IN THE LEDGER BOARD AND 6-10D X 1.5" NAILS IN THE JOIST.
  - PROVIDE 2.25"x1.5" ALUMINUM STAIR NOSING CONTINUOUS ALONG NORTH EDGE OF PLYWOOD DECK (PEMKO NO. 3261, OR EQUAL).
  - MASONRY WALLS WEST OF THIS LINE SHALL BE CONSTRUCTED TO FULL HEIGHT TERMINATING AT UNDERSIDE OF EXISTING METAL ROOF DECK. MASONRY WALLS EAST OF THIS LINE SHALL BE CONSTRUCTED TO TERMINATE AT TOP OF WALL EL. 857.39.
  - PROVIDE NEW OVERHEAD SECTIONAL DOOR AS SPECIFIED. FASTEN DOOR TRACKS AND OPERATOR TO EXISTING STEEL ROOF JOISTS WITH STAINLESS STEEL BRACKETS AND HARDWARE.
  - TERMINATE TOP OF CMU WALL AT UNDERSIDE OF EXISTING ROOF DECK PER 99-ASM5.02.
- WHERE JOISTS PENETRATE THROUGH WALL, FLASH PER 99-ASM5.02.
- PROVIDE PERMANENT SIGN ATTACHED NEAR TOP OF CMU WALL STATING, "EQUIPMENT PLATFORM MAXIMUM SUPERIMPOSED LIVE LOAD = 60 PSF."

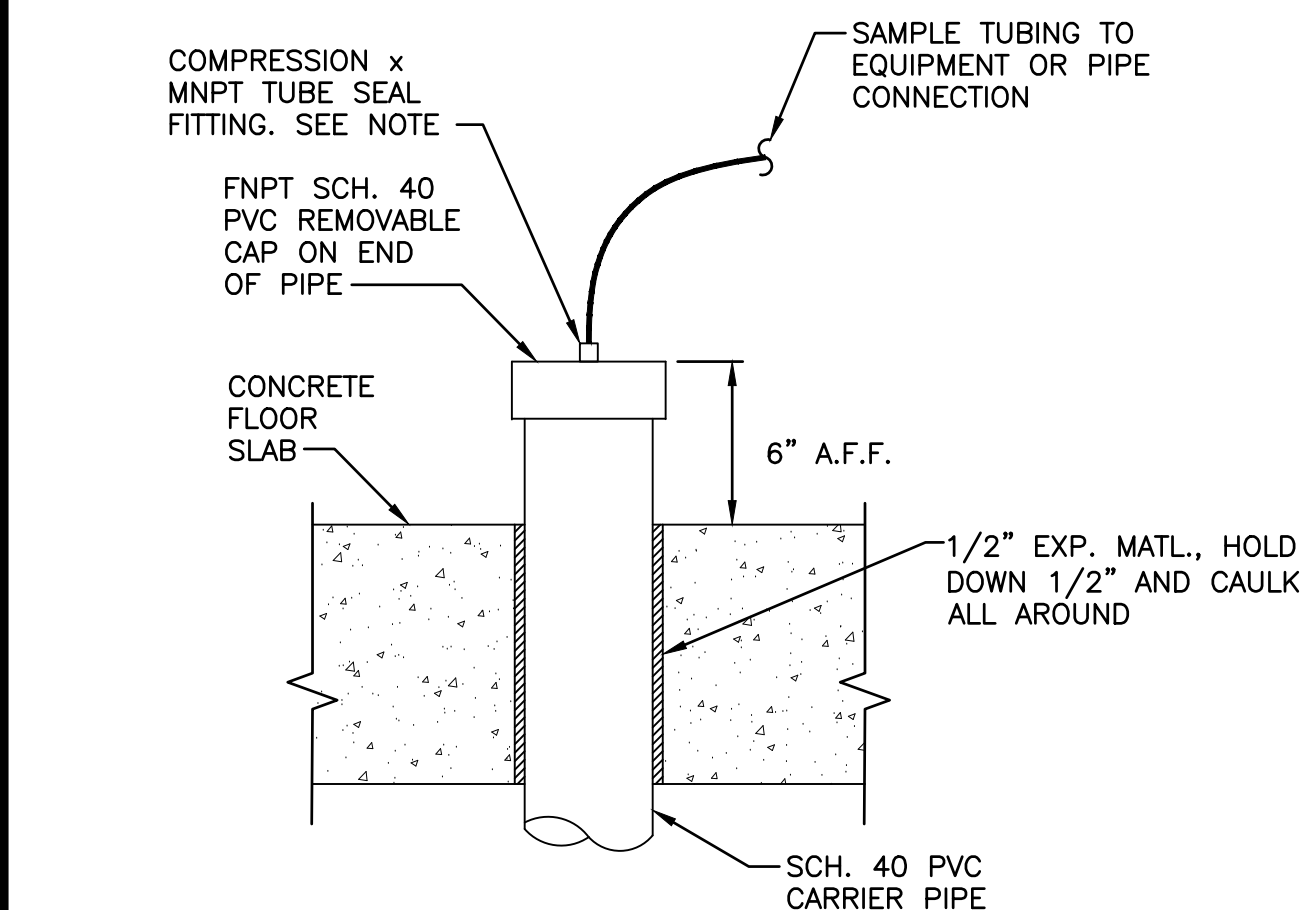
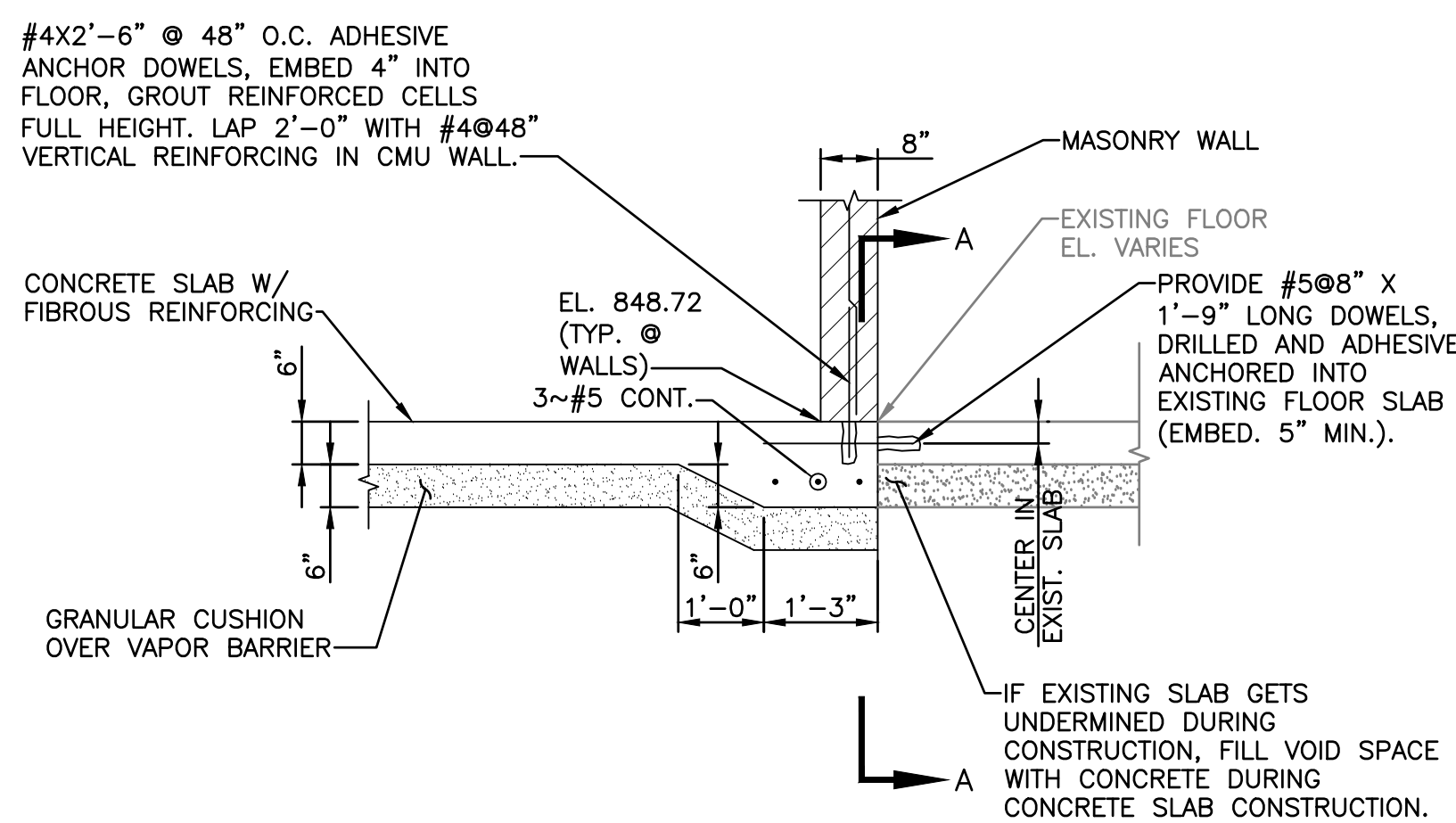
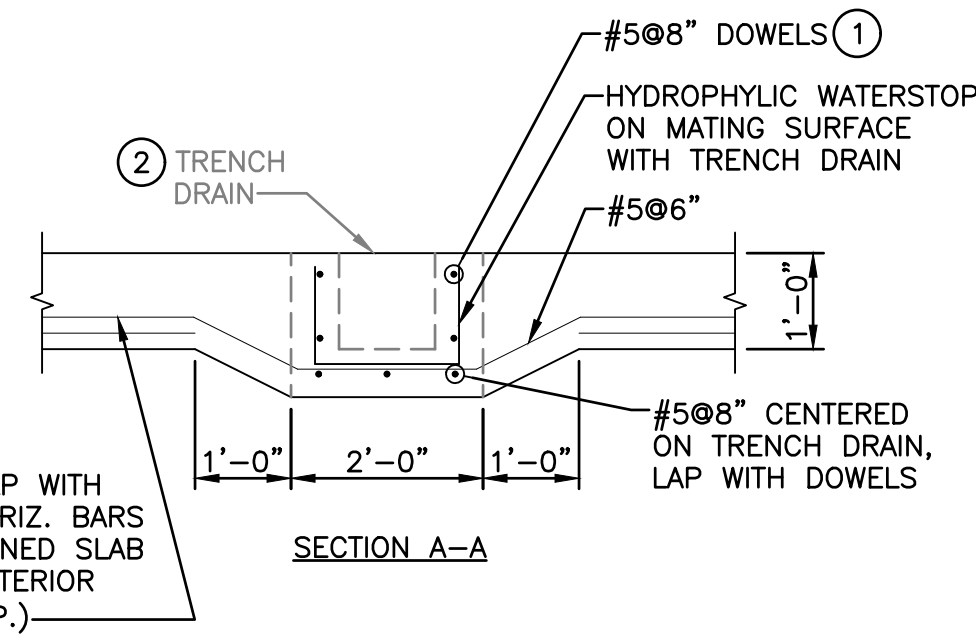
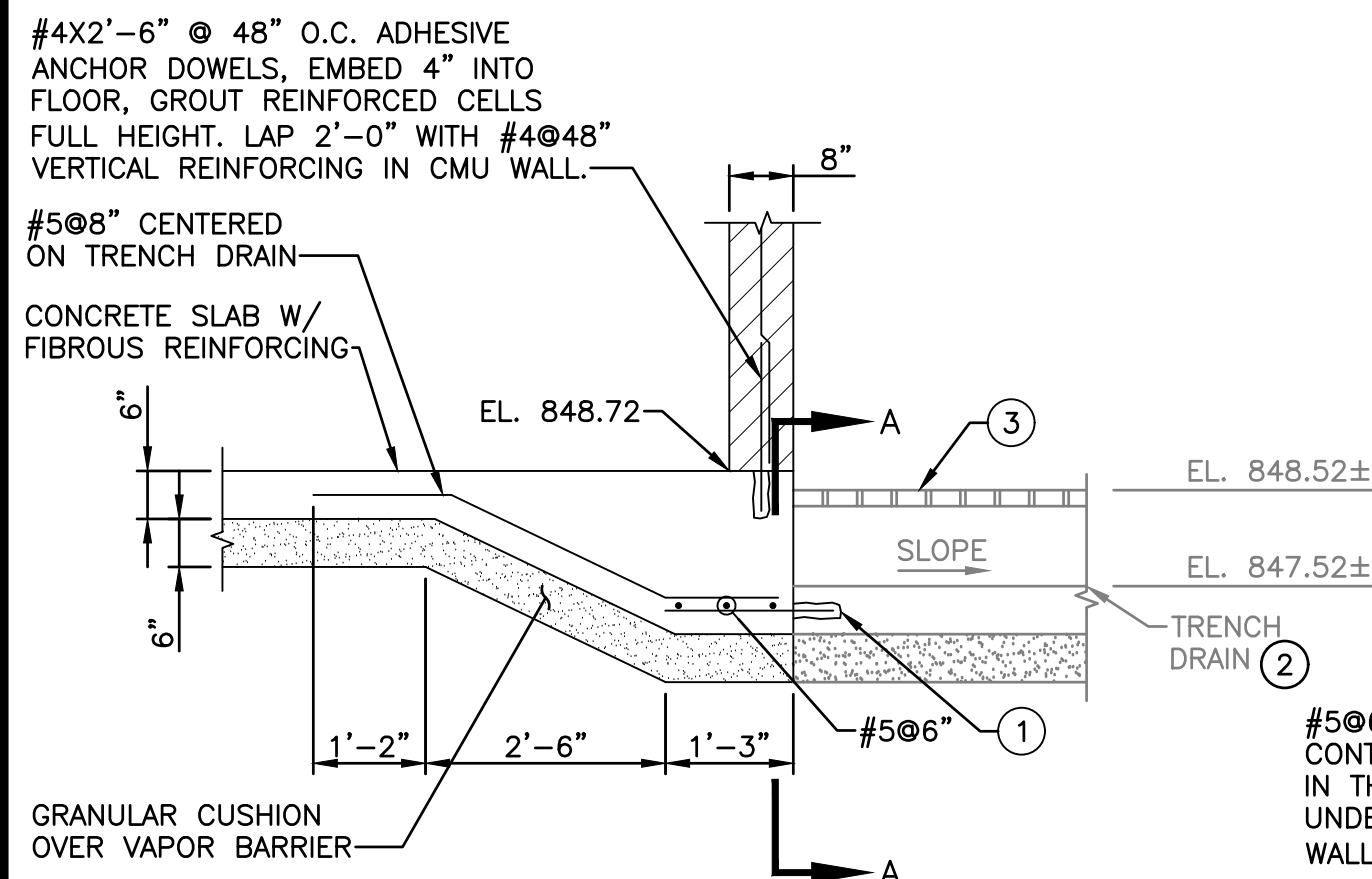
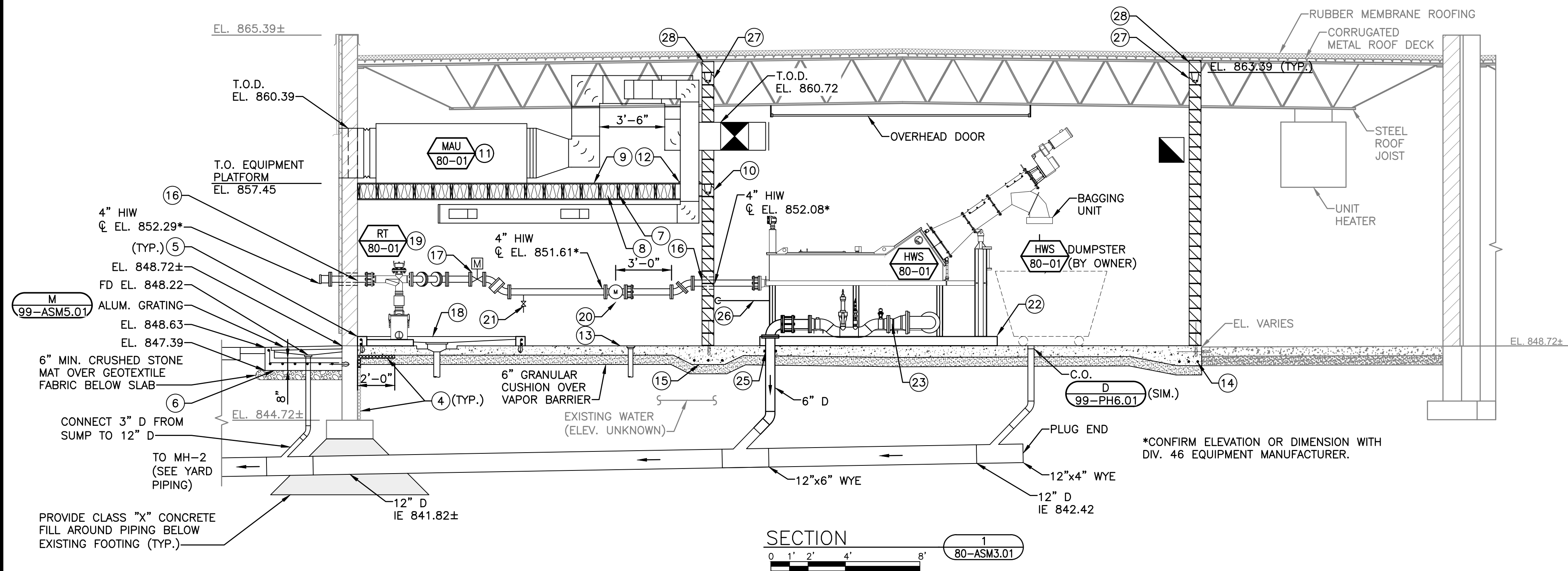
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HAULED WASTE RECEIVING FACILITY  
EQUIPMENT PLATFORM AND ROOF PLANS  
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

JOB NO.  
2679.002  
PROJECT MGR.  
BRENT SCHUSTER



SHEET  
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80-ASM1.03



NOTE: PROVIDE COMPRESSION FITTING THREADED INTO TAPPED PVC CAP TO SEAL AND GRIP TUBING PASSING THROUGH PVC CAP. FITTING SHALL BE SIZED FOR SAMPLE TUBING AND TO ALLOW REMOVAL OF TUBING. PROVIDE PARKER MODEL P8MC12, OR EQUAL, POLYPROPYLENE MNPT (THREADED INTO PVC CAP) X COMPRESSION (FIT ON O.D. OF TUBING).

B 80-ASM3.01 SAMPLE PIPING TERMINATION NO SCALE

#### GENERAL NOTES:

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- ALL 8" CMU WALLS SHALL BE REINFORCED WITH 9 GAUGE LADDER STYLE HORIZONTAL JOINT REINFORCING SPACED AT 16" O.C. VERTICALLY (EVERY OTHER COURSE). UNLESS NOTED OTHERWISE, ALL 8" CMU WALLS SHALL BE REINFORCED WITH #4@48" VERTICAL REINFORCING FULL HEIGHT CENTERED IN WALL. GROUT CORES AT REINFORCING AND LAP BARS 2'-0". PROVIDE #4@48" X 2'-6" LONG DRILLED ADHESIVE ANCHOR DOWELS AT BOTTOM OF WALL TO MATCH VERTICAL REINFORCING, EMBEDDED 4" IN FLOOR SLAB. PROVIDE REBAR POSITIONERS TO CENTER REINFORCING IN CMU CORES.

#### KEY NOTES:

- PROVIDE #5 @ 8", 1'-9" LONG DOWELS CENTERED ON TRENCH DRAIN, DRILLED AND ADHESIVE ANCHORED INTO EXISTING CONCRETE TRENCH DRAIN FLOOR SLAB AND WALLS. EMBED 5" MIN. IN EXISTING CONCRETE. ROUGHEN SURFACES OF EXISTING CONCRETE TO 1/4" AMPLITUDE, APPLY BONDING AGENT, AND CONTINUOUS STRIP OF HYDROPHILIC WATERSTOP ON MATING SURFACES OF TRENCH DRAIN CONCRETE.
- EXISTING DIMENSIONS AND CONCRETE CONSTRUCTION OF TRENCH DRAIN ARE UNKNOWN. FIELD VERIFY CONCRETE WALLS AND FLOOR OF TRENCH DRAIN ARE SOUND AND A MINIMUM 5" THICKNESS. NOTIFY ENGINEER IF EXISTING CONDITIONS DIFFER FROM THOSE STATED.
- MODIFY EXISTING TOP GRATE SECTION OF TRENCH DRAIN CLOSEST TO NEW WALL. CUT GRATE TO FIT IN MODIFIED (SHORTENED) END OF TRENCH DRAIN TO WITHIN 1/2" OF NEW WALL.
- MAINTAIN EXISTING FOUNDATION INSULATION AT EXTERIOR WALLS. PROVIDE NEW 2" FOUNDATION INSULATION WITHIN TWO FEET OF EXTERIOR FOUNDATION WALL UNDER NEW FLOOR SLAB AS SHOWN AND SPECIFIED.
- PROVIDE 1/2" EXP. MATERIAL BETWEEN EXTERIOR FOUNDATION WALL AND NEW FLOOR SLAB. HOLD DOWN EXP. MATERIAL AND CAULK WITH SELF-LEVELING SEALANT AS SPECIFIED.
- INSTALL 4'-3" LONG X 5'-0" WIDE X 8" THICK CONCRETE SLAB FOR CONTAINMENT SUMP CENTERED BELOW 4" HW PIPE. REINFORCE SLAB WITH #5 @ 8" E.W. HOOKED BARS CENTERED IN SLAB WITH HOOK ORIENTED IN VERTICAL INTO CENTER OF 6" WIDE CONCRETE CONTAINMENT CURB AT SLAB PERIMETER. PROVIDE 2'-8" LONG, #5 @ 8" DOWELS DRILLED AND ADHESIVE ANCHORED IN EXISTING FOUNDATION WALL (MIN. 5" EMBED.). LAP DOWEL BARS WITH SLAB AND CURB REINFORCING BARS. ROUGHEN SURFACE OF EXISTING WALL AND APPLY HYDROPHILIC WATERSTOP WHERE NEW SLAB AND CONTAINMENT CURB MEET EXISTING WALL. PROVIDE NON-SHRINK GROUT FILL INSIDE CONTAINMENT SUMP SLOPED TO FLOOR DRAIN IN CENTER OF SUMP. INSTALL ALUMINUM GRATING OVER SUMP FLUSH WITH TOP OF CURB AND ADJACENT SIDEWALK. PROVIDE SURFACE MOUNTED ANGLE GRATING SUPPORT ON FOUNDATION WALL AND EMBEDDED ANGLE GRATING SUPPORTS IN TOP OF CONTAINMENT CURB.
- 2X10 WOOD JOISTS @ 12" MAX. O.C. (TYP.). PROVIDE SOUND BATT INSULATION BETWEEN JOISTS.
- 5/8" THICK GYPSUM BOARD CEILING.
- 3/4" PLYWOOD DECKING.
- CMU BOND BEAM (TOP EL. 857.39). PROVIDE 2~ #5 CONT. IN BOND BEAM GROUTED FULL.
- MAU-80-01 AND ASSOCIATED DUCTWORK PROJECTED INTO SECTION VIEW FOR REFERENCE.
- PROVIDE 1.5"x1.5" HALF-ROUND WOOD TRIM AROUND DUCT PENETRATION THROUGH PLYWOOD DECK. CAULK TO SEAL THE DUCT PENETRATION. BLOCK OUT DUCT PENETRATIONS WITH 2X10 MEMBERS.
- 6" CONCRETE SLAB ON GRADE WITH FIBROUS REINFORCING.
- PROVIDE THICKENED SLAB AT NORTH AND WEST OUTSIDE EDGES OF NEW FLOOR SLAB TO CONNECT TO EXISTING FLOOR SLAB AS SHOWN IN DETAIL A 80-ASM3.01
- THICKENED SLAB AND INTERIOR MASONRY WALL CONSTRUCTION PER DETAIL J 99-ASM5.01
- PROVIDE MASONRY SLEEVE WALL PENETRATION PER DETAIL H 99-ASM5.01
- MOTOR OPERATED VALVE AS SPECIFIED. SUPPORT FROM WALL WITH STAINLESS STEEL PIPING SUPPORTS AS SPECIFIED.
- 6" X 6" CONCRETE CONTAINMENT CURB. PROVIDE CONTINUOUS HYDROPHILIC WATERSTOP IN FLOOR JOINT. ANCHOR CURB TO FLOOR WITH #4@12" DOWEL BARS, 8" LONG, DRILL AND EMBED 4" WITH ADHESIVE. PROVIDE #5 CONT. HORIZONTAL BAR CENTERED IN CURB. FILL WITH 4,000 PSI CONCRETE INSIDE CURB FINISHED SLOPED TO FLOOR DRAIN. MIN. CONCRETE FILL THICKNESS TO BE 2".
- ROCK TRAP BY HAULED WASTE RECEIVING SYSTEM MANUFACTURER AS SPECIFIED.
- FLOW METER BY HAULED WASTE RECEIVING SYSTEM MANUFACTURER AS SPECIFIED.
- PROVIDE 1/2" PIPE TAP IN INVERT OF PIPE 6" FROM FLANGE WITH STAINLESS STEEL DRAIN PIPE AND BALL VALVE. ROUTE DRAIN TO SUMP BELOW.
- PROVIDE CONCRETE EQUIPMENT PAD BELOW HWS-80-01 PER DETAIL D 99-ASM5.01
- INSTALL PREFABRICATED OUTLET PIPE ASSEMBLY WITH CONDUCTIVITY AND PH SENSOR MOUNTING HARDWARE BY HWS-80-01 EQUIPMENT MANUFACTURER. PROVIDE CONNECTING PIPING AND HARDWARE AS REQUIRED. CONNECT FLUSH WATER SOLENOID VALVE TO HWS-80-01 FLUSH/WASH WATER MANIFOLD AS RECOMMENDED BY HWS MANUFACTURER. CONFIRM LOCATION, ARRANGEMENT AND LAY LENGTHS WITH EQUIPMENT MANUFACTURER.
- NOT USED.
- PROVIDE HYDROPHILIC WATERSTOP AROUND PIPE CENTERED IN CONCRETE SLAB (TYP.).
- 1.5-INCH NPW PIPING ROUTED TO HWS-80-01 WASH WATER SUPPLY CONNECTION.
- CMU BOND BEAM (TOP EL. 863.39 +/-). PROVIDE 2~#5 CONTINUOUS IN BOND BEAM GROUTED FULL.
- TERMINATE TOP OF CMU WALL AT EXISTING ROOF DECK PER J 99-ASM5.02 WHERE JOISTS PENETRATE THROUGH WALL, FLASH PER H 99-ASM5.02

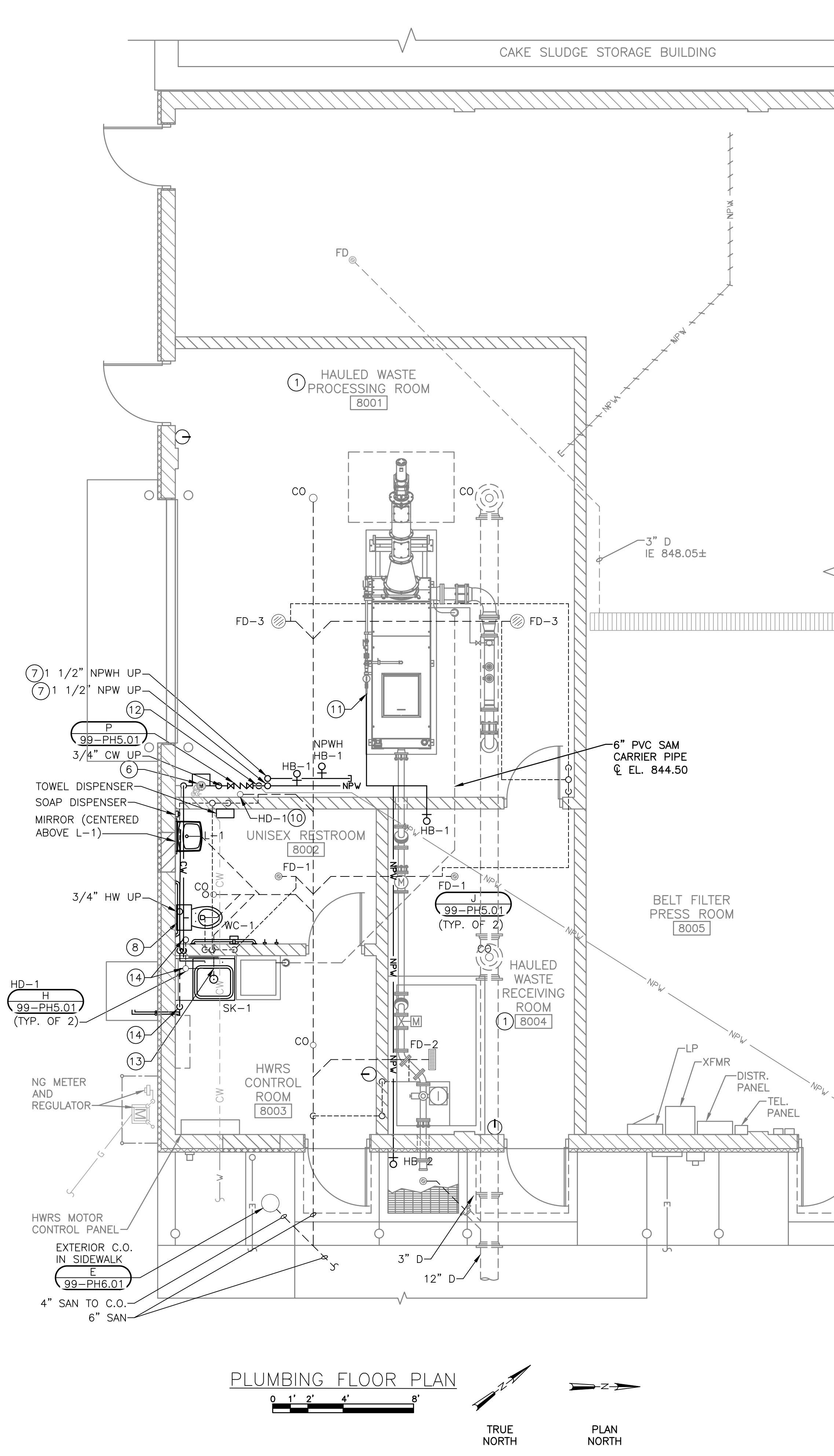
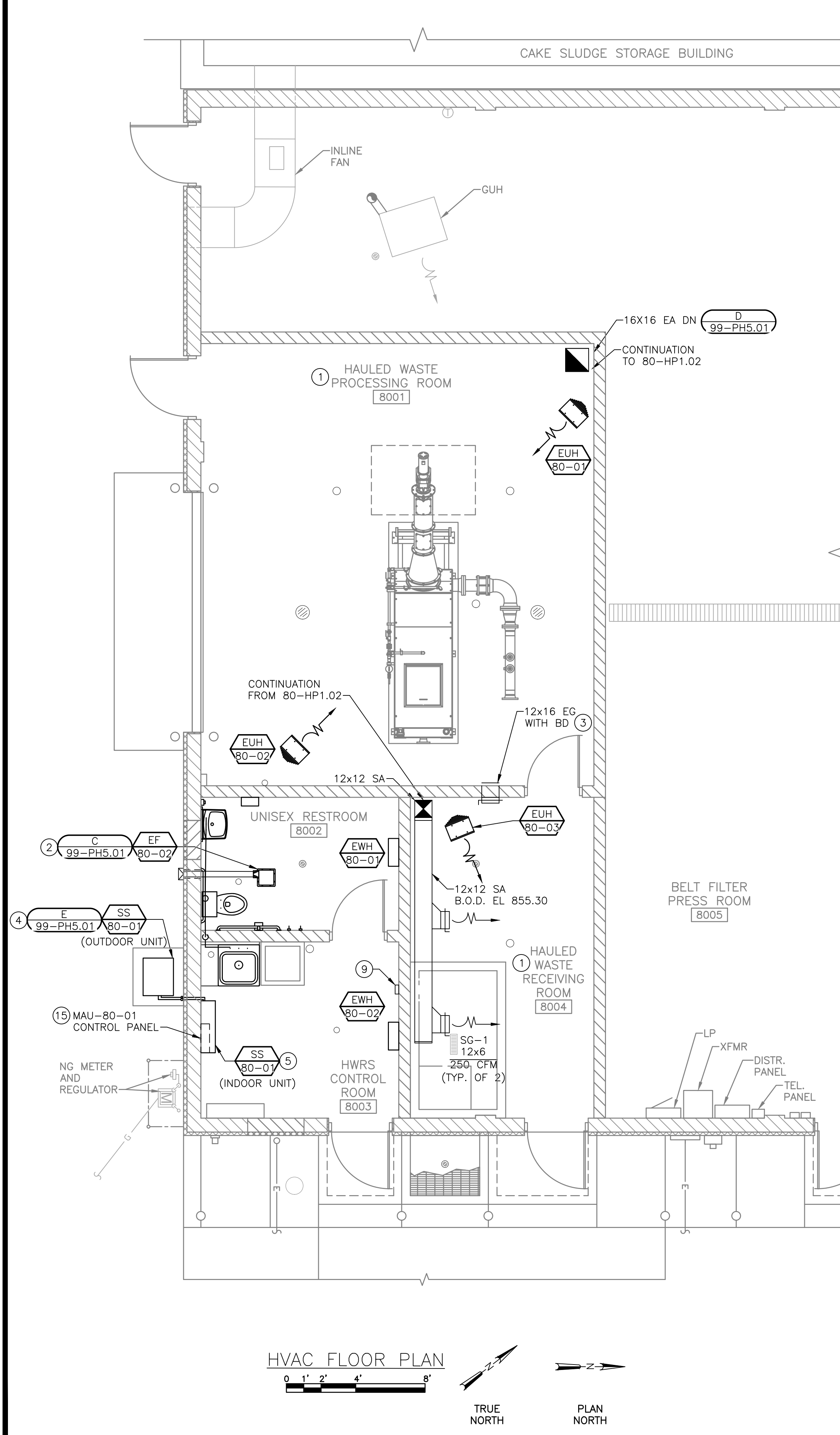
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**HAULED WASTE RECEIVING FACILITY**  
**SECTIONS AND DETAILS**  
**WASTEWATER TREATMENT PLANT**  
**HAULED WASTE RECEIVING FACILITY**  
**LAKE GENEVA UTILITY COMMISSION**  
**CITY OF LAKE GENEVA, WISCONSIN**

**JOB NO.**  
2679.002  
**PROJECT MGR.**  
BRENT SCHUSTER

**SA**  
**STRAND**  
 ASSOCIATES®

**SHEET**  
**13**  
**80-ASM3.01**



- GENERAL NOTES:**
- COORDINATE MECHANICAL WORK WITH ALL OTHER TRADES INVOLVED. CONTRACTOR IS RESPONSIBLE FOR ALL PIPING AND DUCTWORK OFFSETS REQUIRED FOR COMPLETE SYSTEM INSTALLATION.
  - INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, AND APPLICABLE CODES.
  - ALL WORK TO BE COMPATIBLE WITH BUILDING CONSTRUCTION CLASS AND OCCUPANCY.
  - DESIGN INTENT IS TO INDICATE GENERAL ARRANGEMENT. DESIGN AND INTENT OF WORK, AND IS PARTIALLY DIAGRAMMATIC, DRAWING SHALL NOT BE SCALED.
  - ALL PIPE AND DUCT LOCATIONS AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL NEW PIPE AND DUCT ROUTING AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.
  - FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS PRIOR TO FABRICATION.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR PIPING AND DUCT OFFSETS REQUIRED FOR COMPLETE SYSTEM INSTALLATIONS.
  - SEE WASTE AND VENT SCHEMATIC FOR ADDITIONAL INFORMATION.
  - SANITARY PIPING BELOW FINISHED FLOOR AND WITHIN THE PROCESS SPACE SHALL BE SUPPORTED USING STAINLESS STEEL PIPE SUPPORTS.
  - ROUTE PIPING AND APPURTENANCES TO MAINTAIN CLEARANCE FOR EQUIPMENT MAINTENANCE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

- KEY NOTES:**
- ALL MECHANICAL WORK AND EQUIPMENT IN THIS ROOM SHALL BE RATED FOR A CLASS I, DIVISION 1, GROUPS C AND D LOCATION.
  - 6"Ø EA @ EL. 856.93 FROM EF THROUGH EXISTING WALL. TERMINATE 6"Ø EA WITH WC-6 WALL CAP.
  - PROVIDE EXHAUST GRILLE WITH BALANCING DAMPER. BOTTOM OF OPENING SHALL BE 8" AFF. BALANCE TOTAL EXHAUST THRU THIS GRILLE WITH TOTAL SUPPLY AIR TO ROOM 8004.
  - MOUNT SS-80-01 OUTDOOR UNIT TO EXTERIOR WALL ON SST WALL BRACKET. ANCHOR BRACKET DIRECTLY TO BLOCK WALL. CUT AND PATCH EXTERIOR STUCCO FACING TO MATCH ADJACENT WALL AROUND BRACKET SUPPORT MEMBERS.
  - MOUNT SS-80-01 INDOOR UNIT TO INSIDE FACE OF WALL BOTTOM AT 7'-0" AFF. ROUTE CONDENSATE DRAIN FROM UNIT ALONG WALL TO DRAIN TO OPEN RECEPTOR UNDER SK-1. CORE HOLES IN EXISTING WALL AND ROUTE REFRIGERANT PIPING FROM INDOOR UNIT THROUGH WALL TO OUTDOOR UNIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SEALED PIPE PENETRATIONS IN ACCORDANCE WITH SPECIFICATIONS.
  - EXISTING WATER METER TO REMAIN. RECONNECT EXISTING GROUNDING CLAMP, GROUND WIRE, AND HARDWARE TO NEW WATER PIPING AT METER.
  - ROUTE PIPING STACKED ALONG WALL.
  - PIPING SHALL BE ROUTED TIGHT TO CEILING AND CONCEALED WITHIN WALL WHERE POSSIBLE.
  - MOUNT SS-80-01 SYSTEM REMOTE CONTROLLER IN WALL BRACKET ON WALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND IN LOCATION APPROVED BY OWNER.
  - ROUTE DRAIN FROM RPZ BACKFLOW PREVENTER DOWN TO HUB DRAIN.
  - COORDINATE CONNECTION SIZE WITH EQUIPMENT.
  - CONNECT TO EXISTING NPW PIPE.
  - TIE HUB DRAIN INTO SINK DRAIN.
  - ROUTE DRAIN FROM SPILL CONTAINMENT PALLET (ON EQUIPMENT PLATFORM UNDER WATER HEATERS) FROM MAU-80-01 BURNER CONDENSATE DRAIN (ON EQUIPMENT PLATFORM), AND CONDENSATE DRAIN FROM SPLIT SYSTEM (SS-80-01) INDOOR UNIT TO HUB DRAIN UNDER SINK.
  - MOUNT MAU-80-01 CONTROL PANEL ON WALL BELOW SS-80-01 INDOOR UNIT. TOP OF PANEL SHALL BE 5'-0" AFF. LOCATE PANEL SO NO CONDENSATE DRAIN PIPING IS ABOVE IT AND MAINTAIN MINIMUM CLEARANCE FROM FRONT OF OTHER CONTROL PANELS PER APPLICABLE CODES.

###

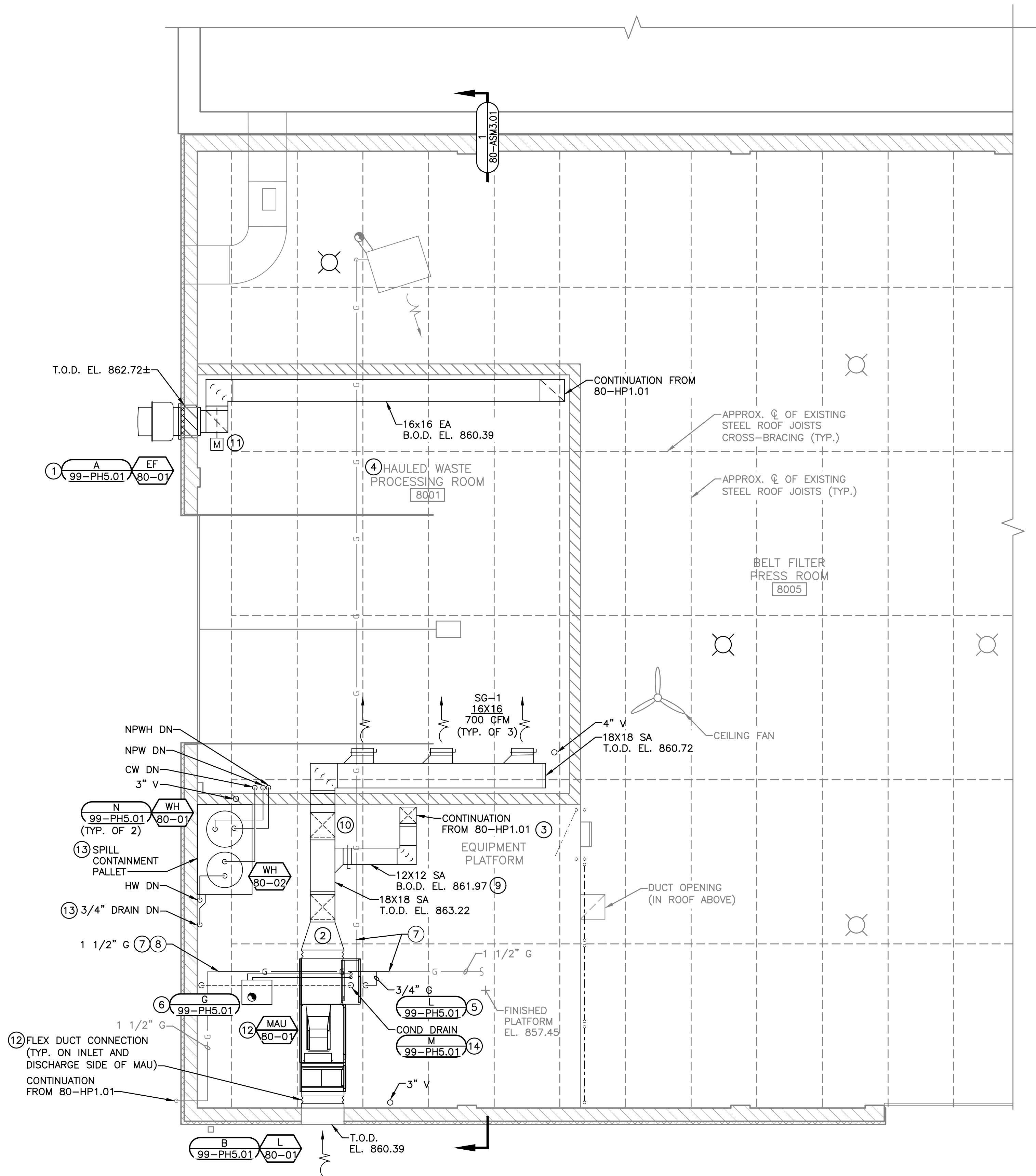
**HAULED WASTE RECEIVING FACILITY  
HVAC AND PLUMBING - FLOOR PLAN**

WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

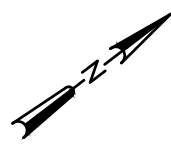
**JOB NO.**  
2679.002

**PROJECT MGR.**  
BRENT SCHUSTER

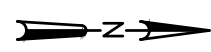
**SHEET**  
**14**  
**80-HP1.01**



EQUIPMENT PLATFORM PLAN



TRUE  
NORTH



PLAN  
NORTH

GENERAL NOTES:

- COORDINATE MECHANICAL WORK WITH ALL OTHER TRADES INVOLVED. CONTRACTOR IS RESPONSIBLE FOR ALL PIPING AND DUCTWORK OFFSETS REQUIRED FOR COMPLETE SYSTEM INSTALLATION.
- INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, AND APPLICABLE CODES.
- ALL WORK TO BE COMPATIBLE WITH BUILDING CONSTRUCTION CLASS AND OCCUPANCY.
- DESIGN INTENT IS TO INDICATE GENERAL ARRANGEMENT. DESIGN AND INTENT OF WORK, AND IS PARTIALLY DIAGRAMMATIC, DRAWING SHALL NOT BE SCALED.
- ALL PIPE AND DUCT LOCATIONS AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL NEW PIPE AND DUCT ROUTING AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.
- FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS PRIOR TO FABRICATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PIPING AND DUCT OFFSETS REQUIRED FOR COMPLETE SYSTEM INSTALLATIONS.
- SEE WASTE AND VENT SCHEMATIC FOR ADDITIONAL INFORMATION.
- ROUTE PIPING AND APPURTENANCES TO MAINTAIN CLEARANCE FOR EQUIPMENT MAINTENANCE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- CONTRACTOR SHALL REUSE EXISTING ROOF PENETRATIONS WHERE POSSIBLE. COORDINATE ALL ROOF PENETRATIONS WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

- MOUNT EF AND DUCTWORK IN EXISTING 24"x24" WALL OPENING INFILLED TO SIZE OF NEW DUCT AND EF.
- 31"x32" TO 18"x18" SA TRANSITION FROM UNIT CONNECTION TO 18"x18" ELBOW. ROUTE DUCT VETICALLY TO T.O.D EL 863.22. RUN DUCT NORTH FOR APPROXIMATELY 4'-0"
- 12"x12" SA TURN DOWN AND PENETRATE THROUGH FLOOR INTO ROOM 8004.
- ALL MECHANICAL WORK AND EQUIPMENT IN THIS ROOM AND WITHIN A 3'-0" RADIUS OF EXHAUST FAN EXHAUST SHALL BE RATED FOR A CLASS I, DIVISION 1, GROUPS C AND D LOCATION.
- PROVIDE SEDIMENT TRAP, SHUT OFF VALVE, AND REGULATOR PRIOR TO EQUIPMENT CONNECTION. REGULATE GAS TO THE EQUIPMENT MANUFACTURER'S RECOMMENDED OPERATION PRESSURE.
- 6"Ø FLUE GAS AND COMBUSTION INTAKE ROUTE FROM MAU CONNECTION TO CONCENTRIC VENT KIT. REUSE EXISTING OPENING FOR EXHAUST TERMINAL.
- RECONNECT TO EXISTING NATURAL GAS PIPING, CONNECTIONS AND PIPE SIZE ARE TO BE FIELD VERIFIED.
- ROUTE NATURAL GAS PIPING ALONG CEILING AND THROUGH EXISTING JOISTS. ROUTE IS TO BE FIELD VERIFIED.
- ROUTE 12"x12" SA DUCT THROUGH ROOF JOIST OPENINGS. ROUTE IS TO BE FIELD VERIFIED.
- ROUTE 18"x18" SA DOWN AND TURN NORTH TO T.O.D EL 860.72. ROUTE DUCT THROUGH WALL AND TURN EAST.
- 16"x16" EA ELBOW DOWN. DAMPER SHALL BE MOUNTED IN VERTICAL DUCT. TURN NORTH AND ROUTE DUCT WITH T.O.D EL 858.86.
- PROVIDE RUBBER VIBRATION ISOLATOR FOR UNIT MOUNTING. REFER TO DETAILS B AND C
- PROVIDE SPILL CONTAINMENT PALLET AS SPECIFIED IN DIVISION 10. PROVIDE 3/4" DRAIN PIPE FROM CONTAINMENT PALLET DRAIN FITTING ROUTED THROUGH DECK DOWN TO HUB DRAIN IN THE CONTROL ROOM (8003) BENEATH SK-1.
- PROVIDE CONDENSATE DRAIN FROM MAU-80-01 BURNER DRAIN PAN. ROUTE DRAIN DOWN THROUGH DECK, BETWEEN JOISTS, DOWN SOUTH WALL TO HUB DRAIN IN THE CONTROL ROOM (8003) BENEATH SK-1.

| NO. | REVISIONS               |  |  |  |  | DATE:      |
|-----|-------------------------|--|--|--|--|------------|
|     | ISSUED FOR OWNER REVIEW |  |  |  |  |            |
| 1   |                         |  |  |  |  | 10/20/2022 |

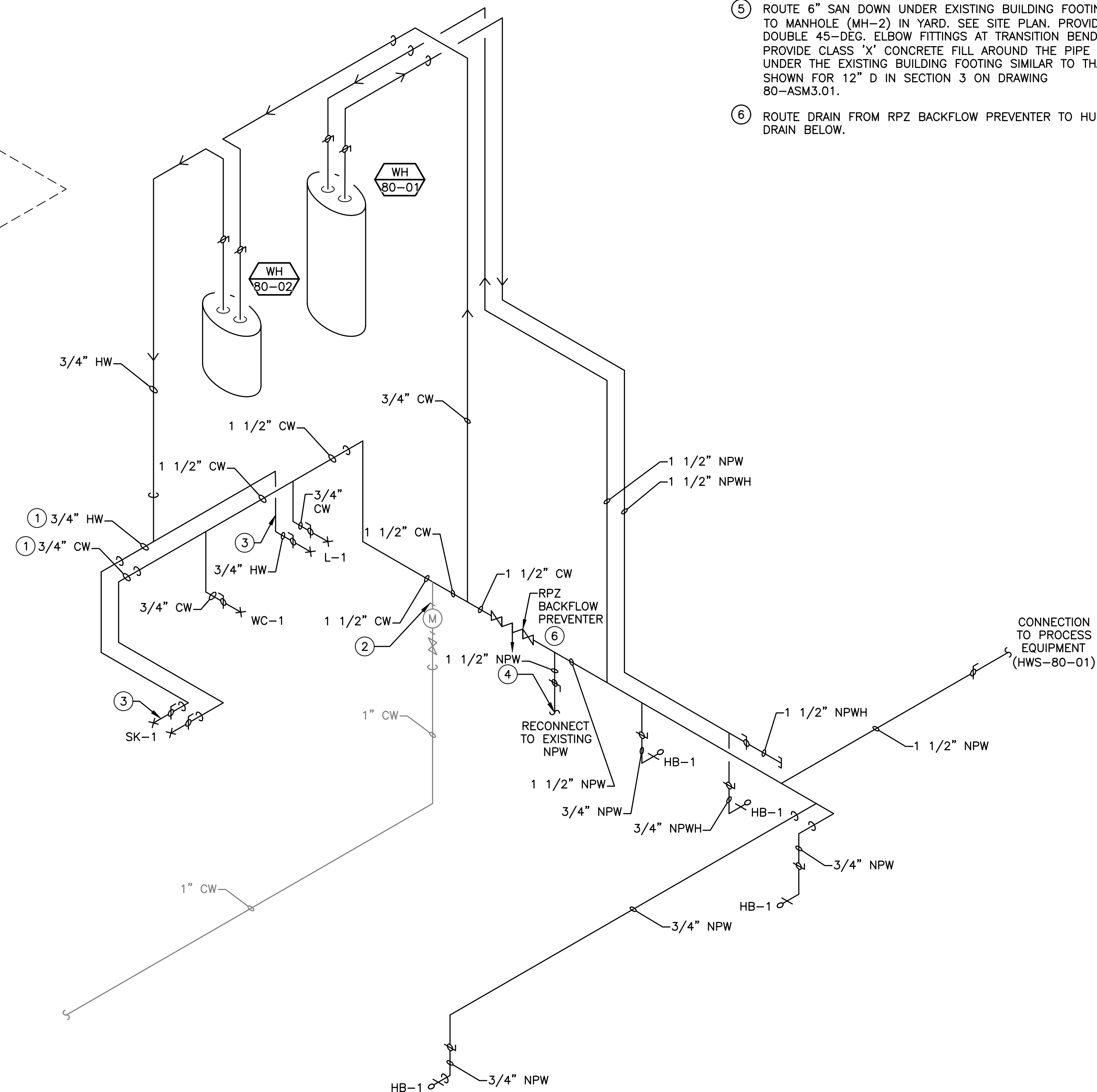
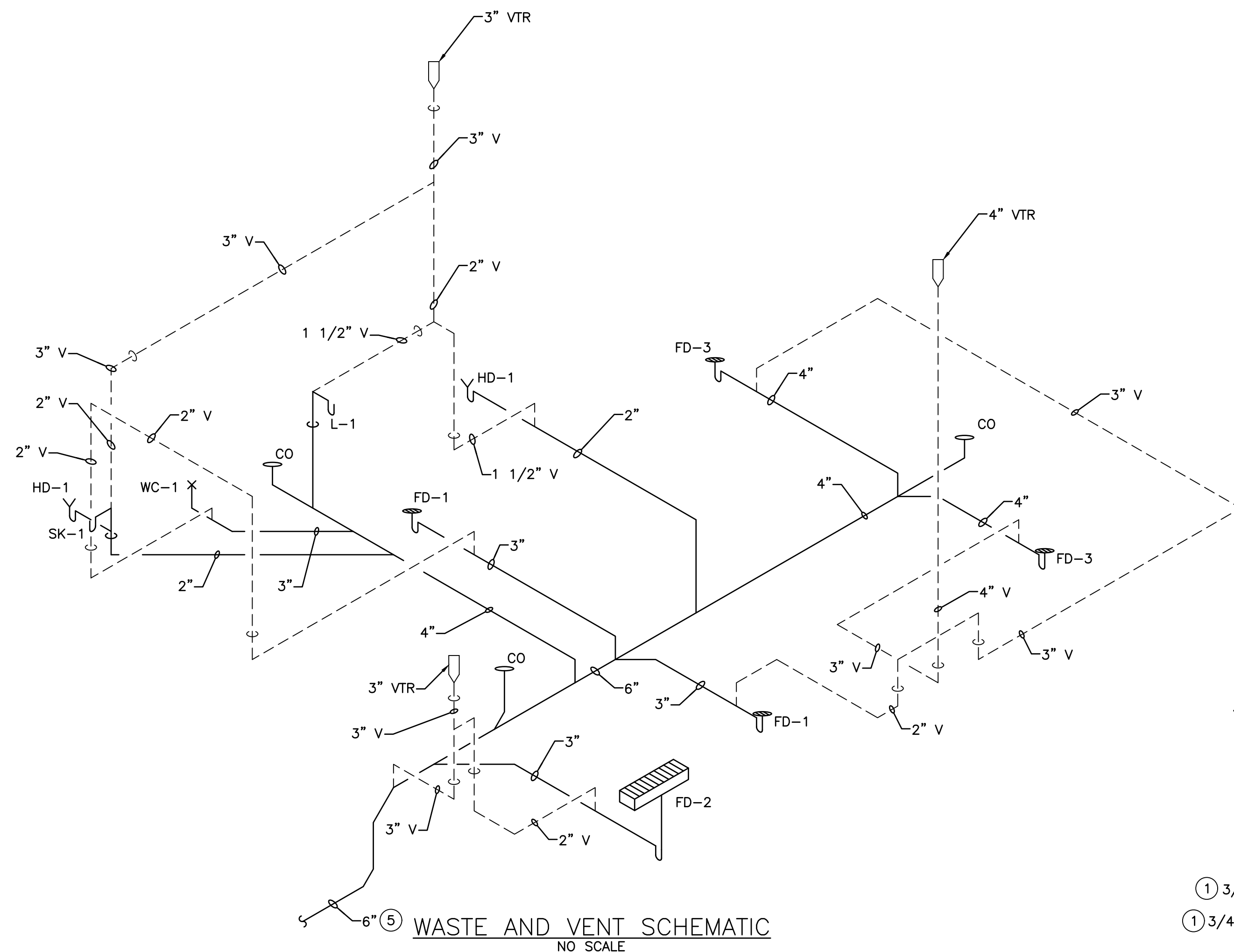
HAULED WASTE RECEIVING FACILITY  
HVAC AND PLUMBING - EQUIPMENT PLATFORM PLAN  
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

JOB NO.  
2679.002

PROJECT MGR.  
BRENT SCHUSTER



SHEET  
15  
80-HP1.02



KEY NOTES:

- ① PIPING SHALL BE ROUTED TIGHT TO CEILINGS AND WALLS, AND SHALL BE CONCEALED WITHIN WALL WHERE PRACTICAL.
- ② CONNECT TO EXISTING OUTLET OF WATER METER. PROVIDE REDUCER FITTING TO INCREASE FROM EXISTING PIPE SIZE TO 1-1/2" CW.
- ③ PROVIDE LAVATORY THERMOSTATIC MIXING VALVE UNDER THE LAVATORY AND SINK AS SPECIFIED.
- ④ CONNECT NEW 1-1/2" NPW TO EXISTING NPW PIPING TO SUPPLY THE EXISTING HOSE BIBB ON THE EAST WALL NEAR OVERHEAD SECTIONAL DOOR. PROVIDE TRANSITION FITTINGS AS REQUIRED FROM NEW 1-1/2" NPW TO EXISTING PIPE SIZE.
- ⑤ ROUTE 6" SAN DOWN UNDER EXISTING BUILDING FOOTING TO MANHOLE (MH-2) IN YARD. SEE SITE PLAN. PROVIDE DOUBLE 45-DEG. ELBOW FITTINGS AT TRANSITION BENDS. PROVIDE CLASS 'X' CONCRETE FILL AROUND THE PIPE UNDER THE EXISTING BUILDING FOOTING SIMILAR TO THAT SHOWN FOR 12" D IN SECTION 3 ON DRAWING 80-ASM3.01.
- ⑥ ROUTE DRAIN FROM RFPZ BACKFLOW PREVENTER TO HUB DRAIN DRAIN.

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## PLUMBING SCHEMATICS

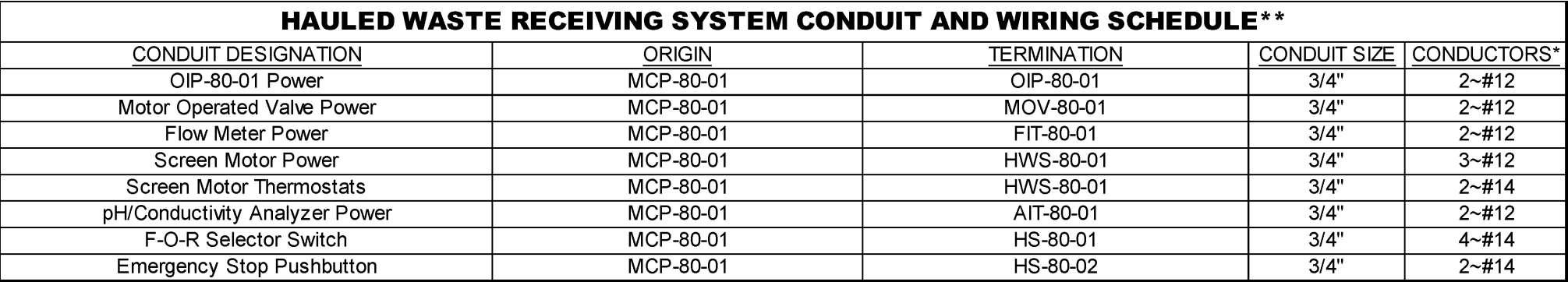
**WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN**

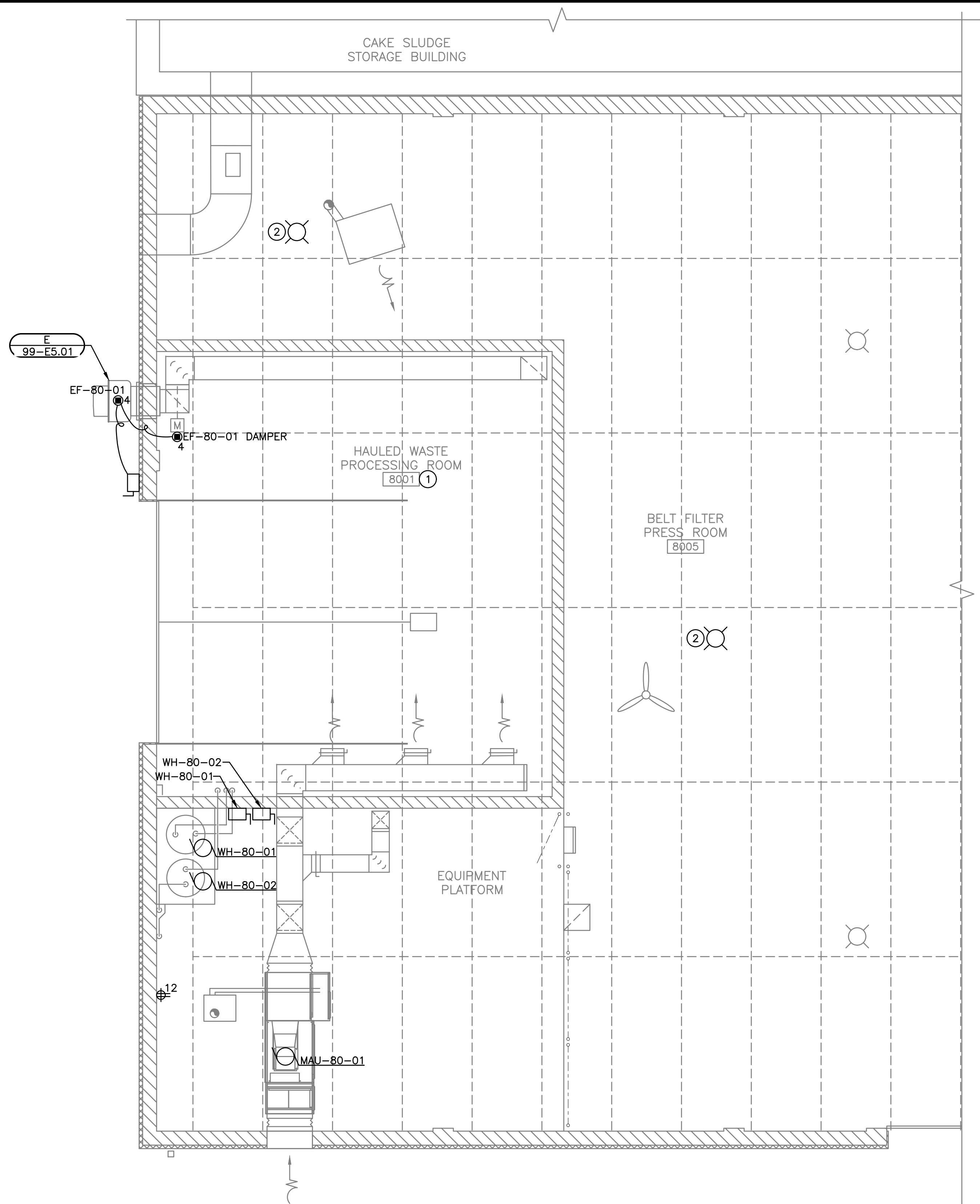
**JOB NO.**  
**2679.002**

**PROJECT MGR.**  
**BRENT SCHUSTER**

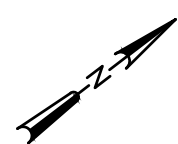
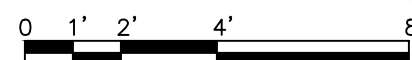


**SHEET**  
**16**  
**80-P7.01**

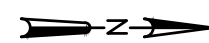




## EQUIPMENT PLATFORM PLAN



TRUE  
NORTH



PLAN  
NORTH

GENERAL NOTES:

1. SEE 80-E1.01 FOR GENERAL NOTES.

KEY NOTES:

- ① ALL ELECTRICAL WORK AND EQUIPMENT IN THIS AREA SHALL BE RATED FOR A CLASS I, DIVISION 1, GROUPS C AND D LOCATION.
- ② RELOCATED LIGHT FIXTURE. MODIFY AND EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED.

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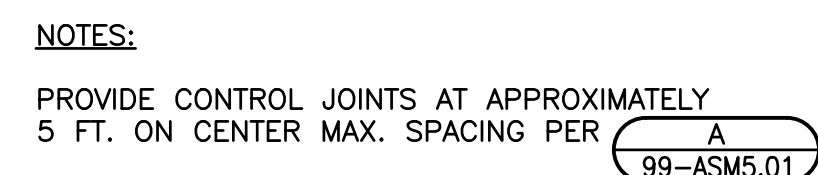
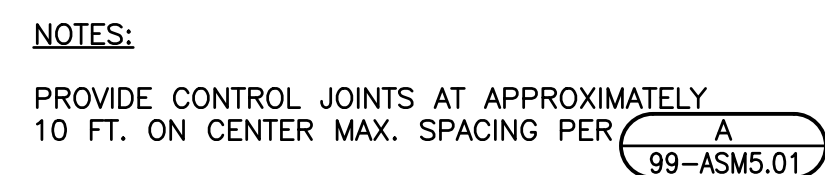
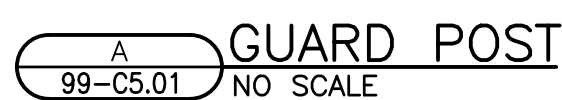
**HAULED WASTE RECEIVING FACILITY  
ELECTRICAL - EQUIPMENT PLATFORM AND ROOF PLANS**

**JOB NO.**  
**2679.002**

**PROJECT MGR.**  
**BRENT SCHUSTER**



**SHEET**  
**18**  
**80-E1.02**



- STANDARD SECTION 2" RADIUS



24" CONCRETE CURB AND GUTTER  
NO SCALE



| <b>NO.</b> |                         | <b>REVISIONS</b> | <b>DATE:</b> |
|------------|-------------------------|------------------|--------------|
| 1          | ISSUED FOR OWNER REVIEW | 10/20/2022       |              |
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## CIVIL DETAILS

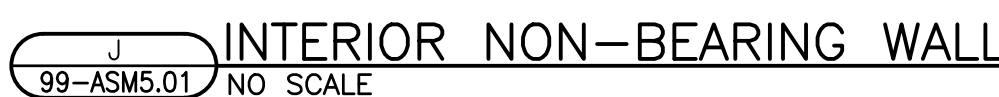
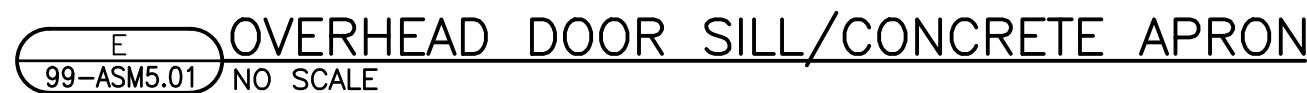
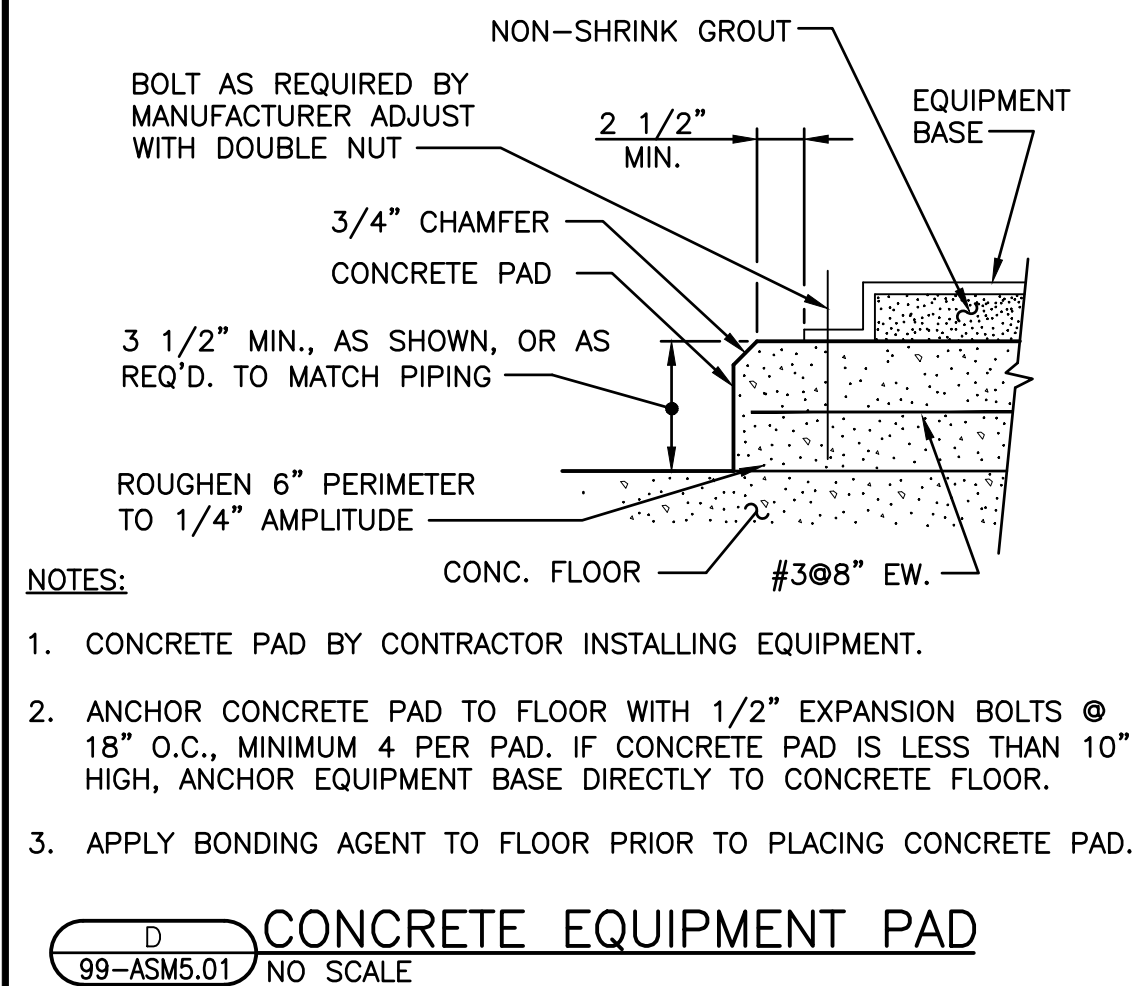
**WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN**

**JOB NO.**  
**2679.002**

**PROJECT MGR.**  
**BRENT SCHUSTER**



**SHEET**  
**19**  
**99-C5.01**



**ARCHITECTURAL/STRUCTURAL/MECHANICAL  
DETAILS - 1**

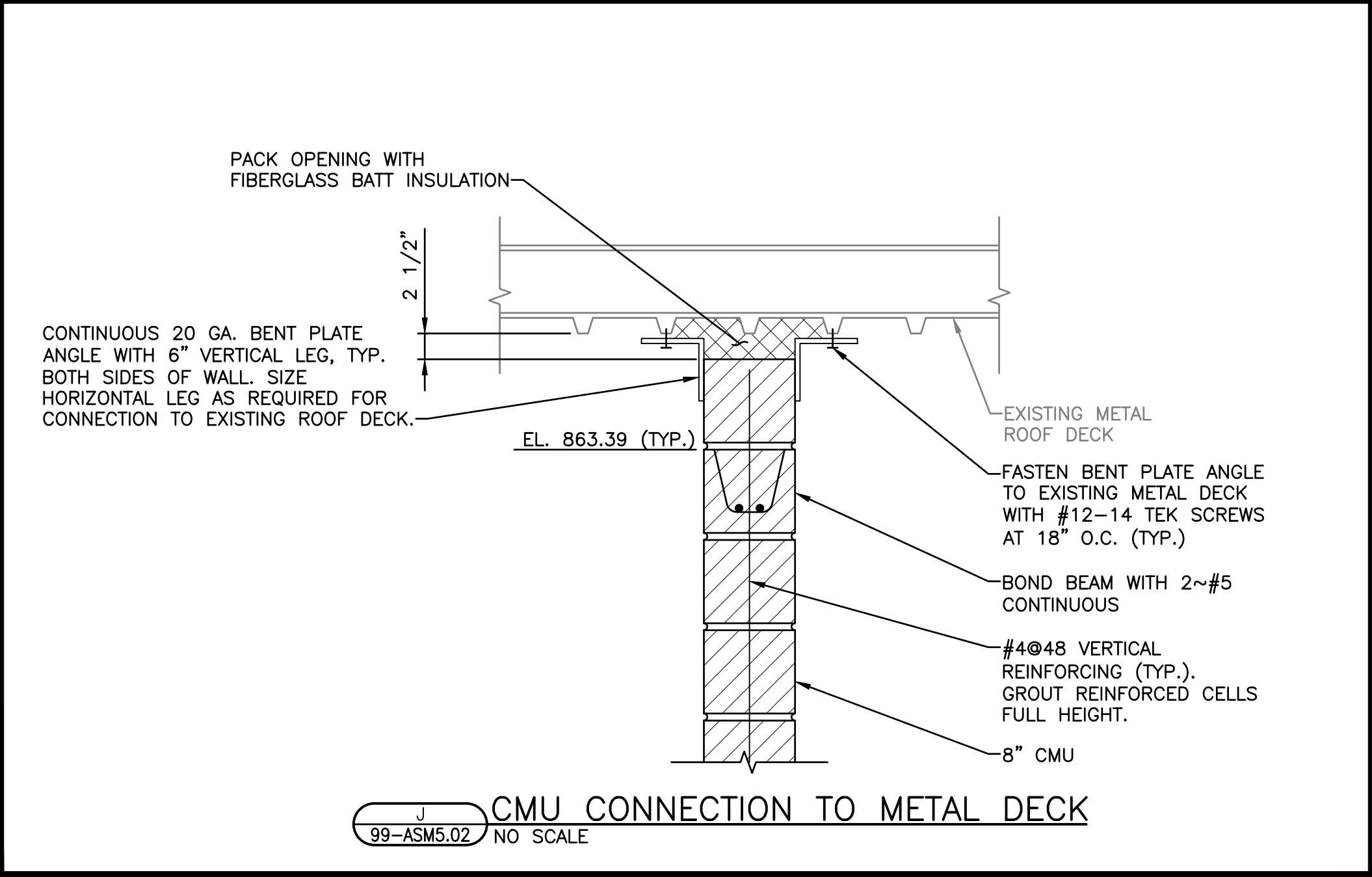
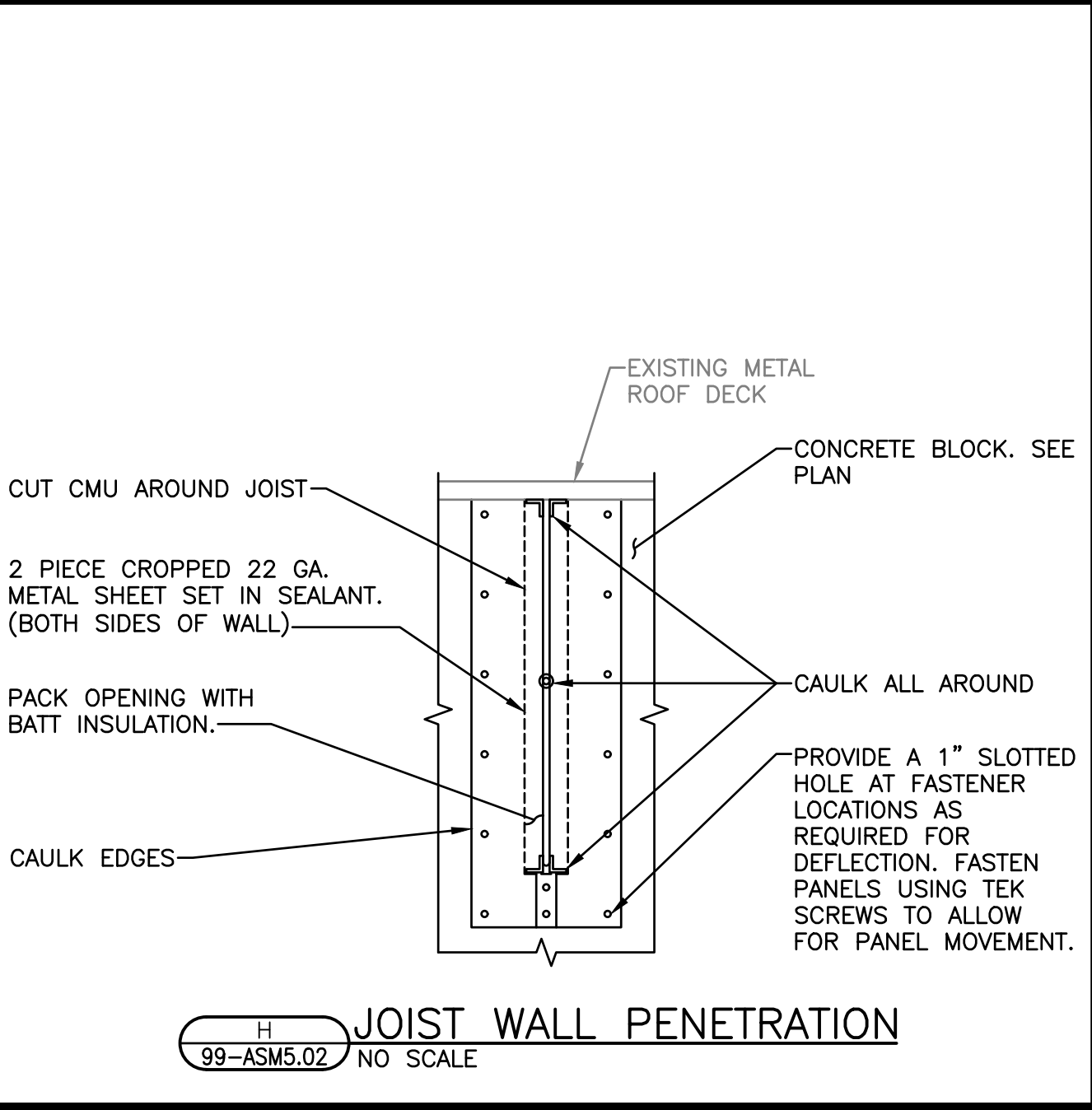
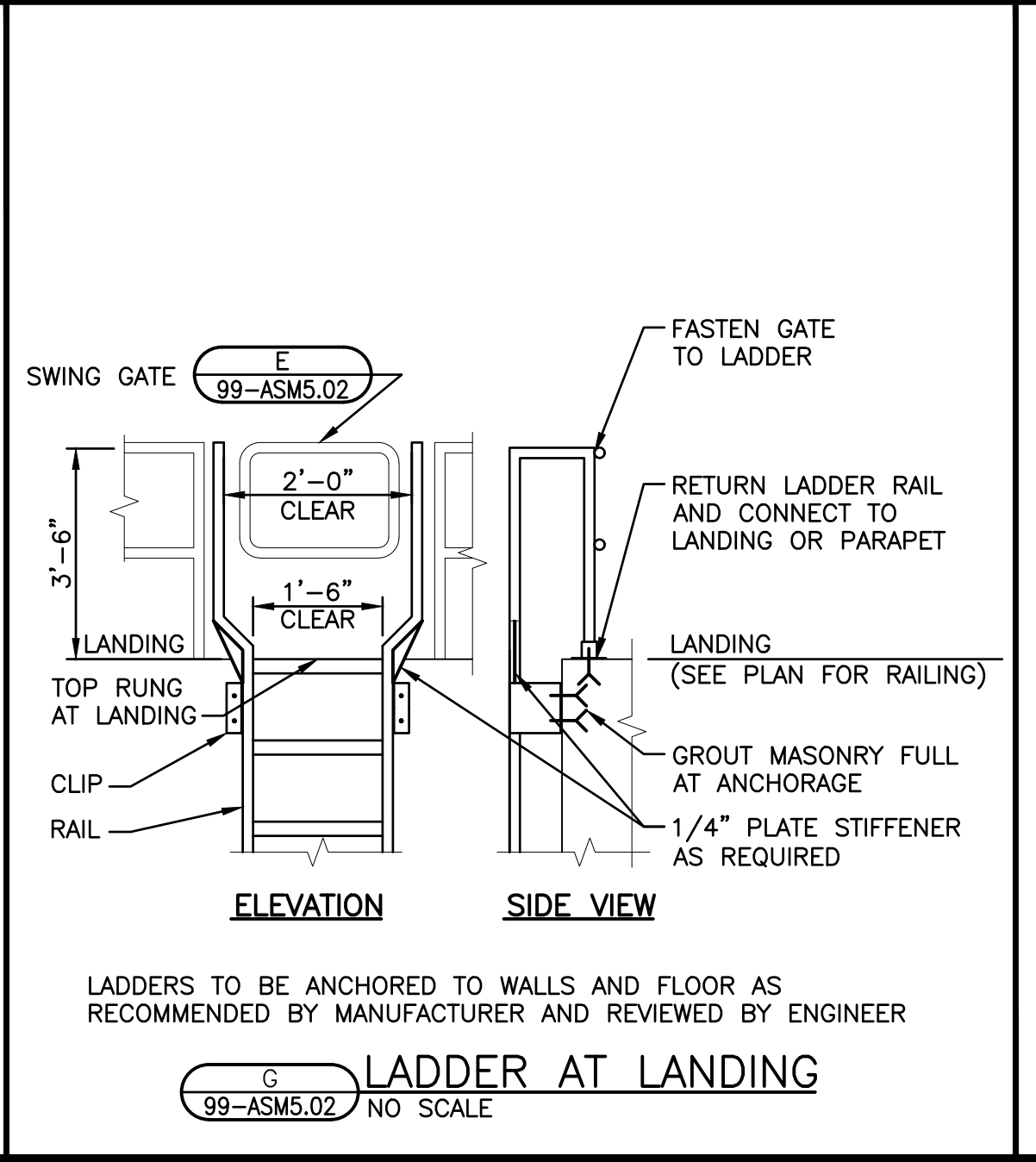
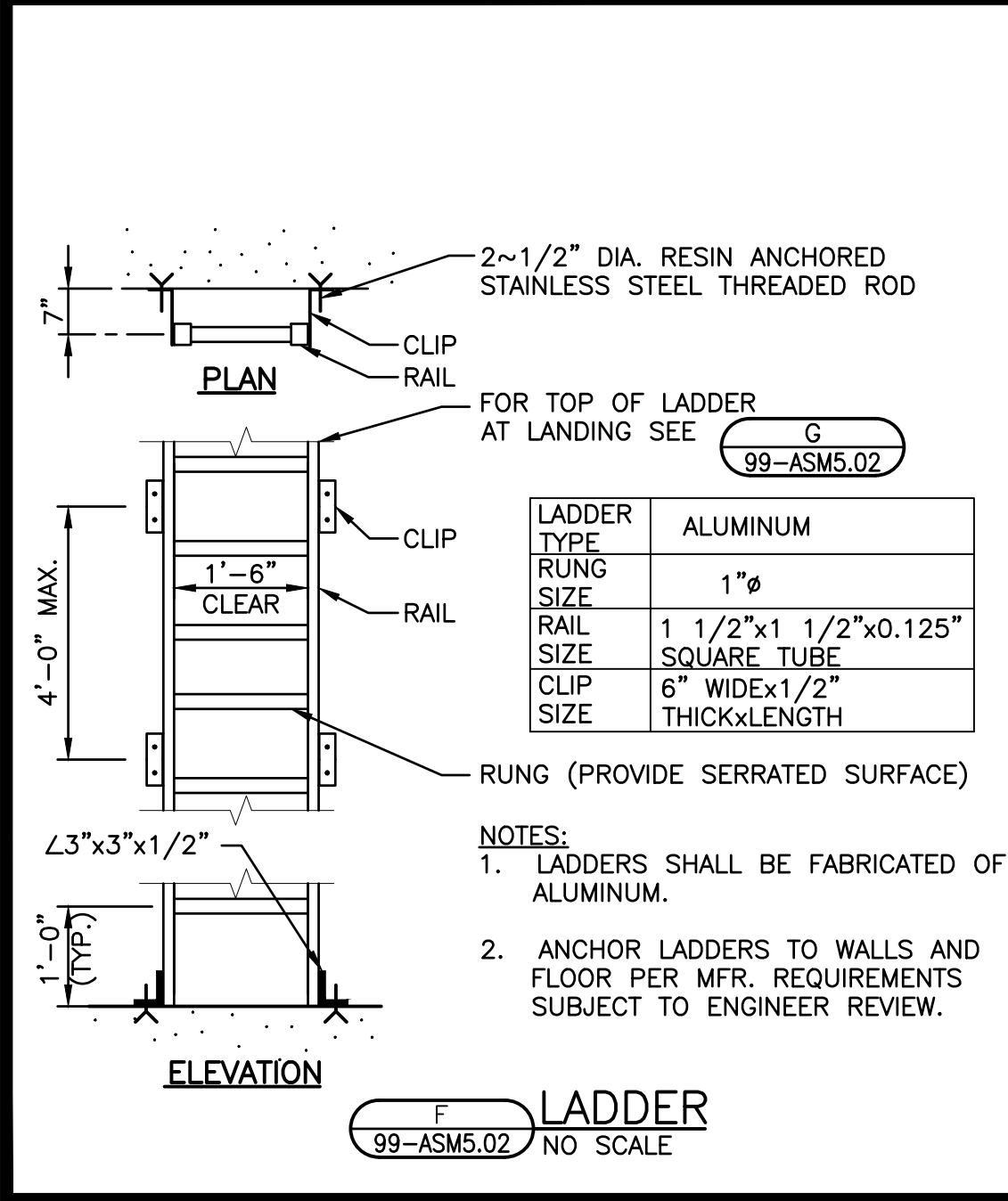
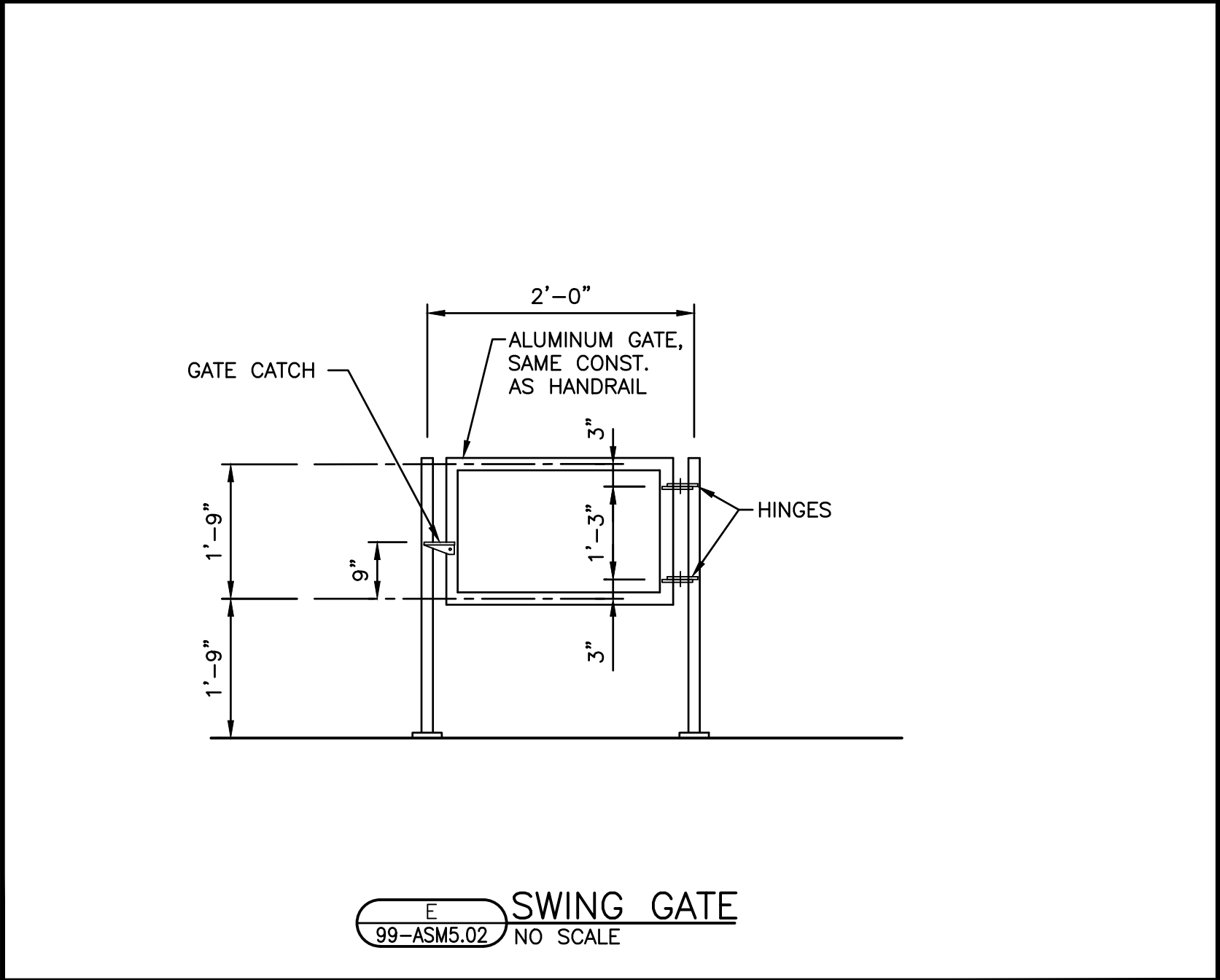
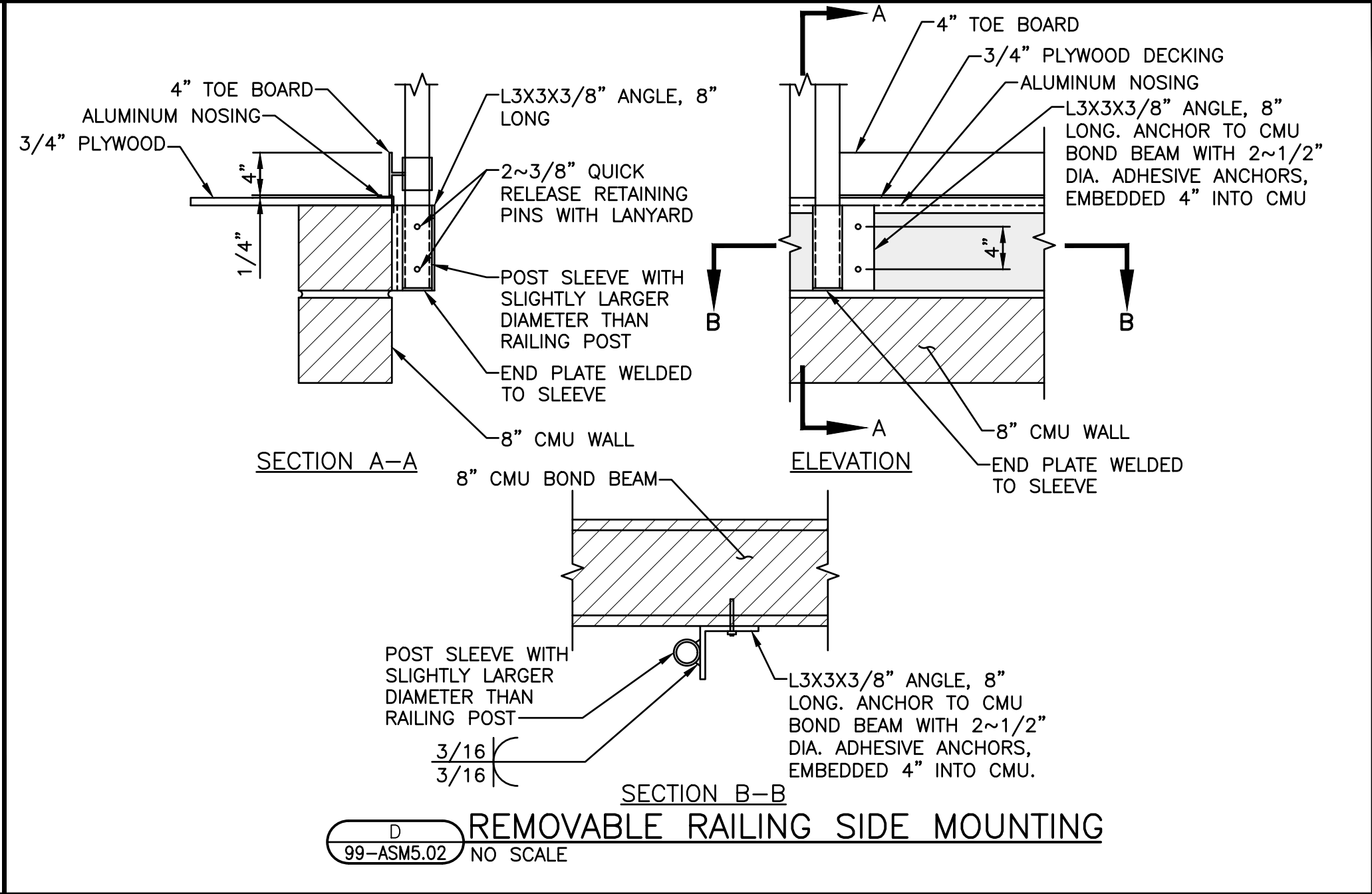
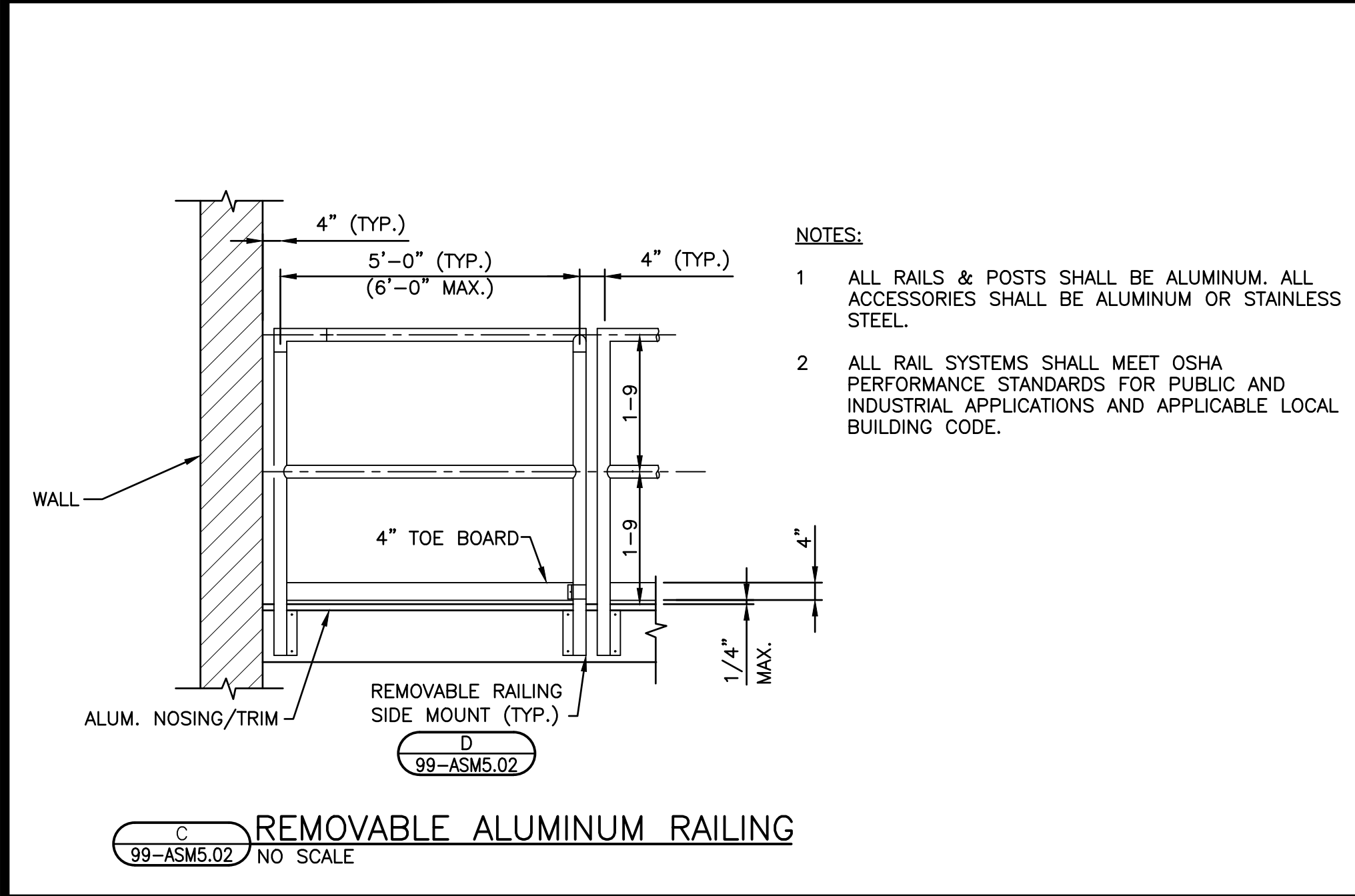
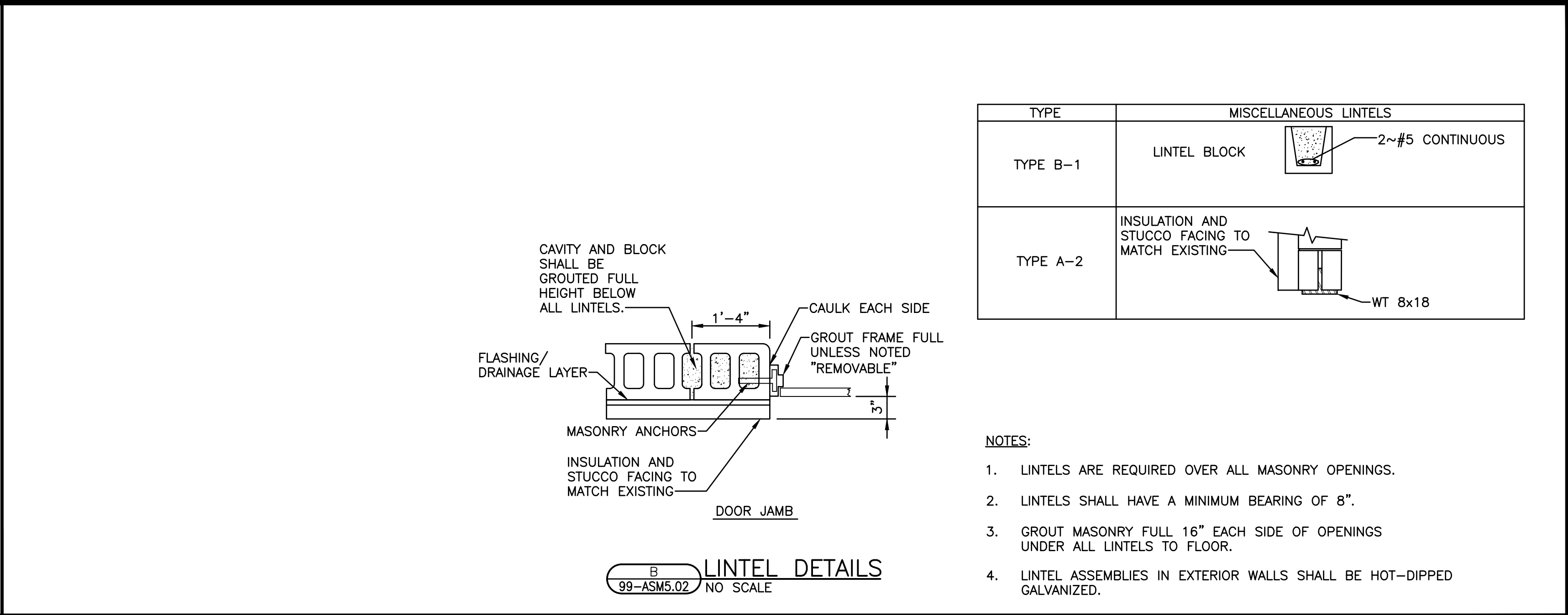
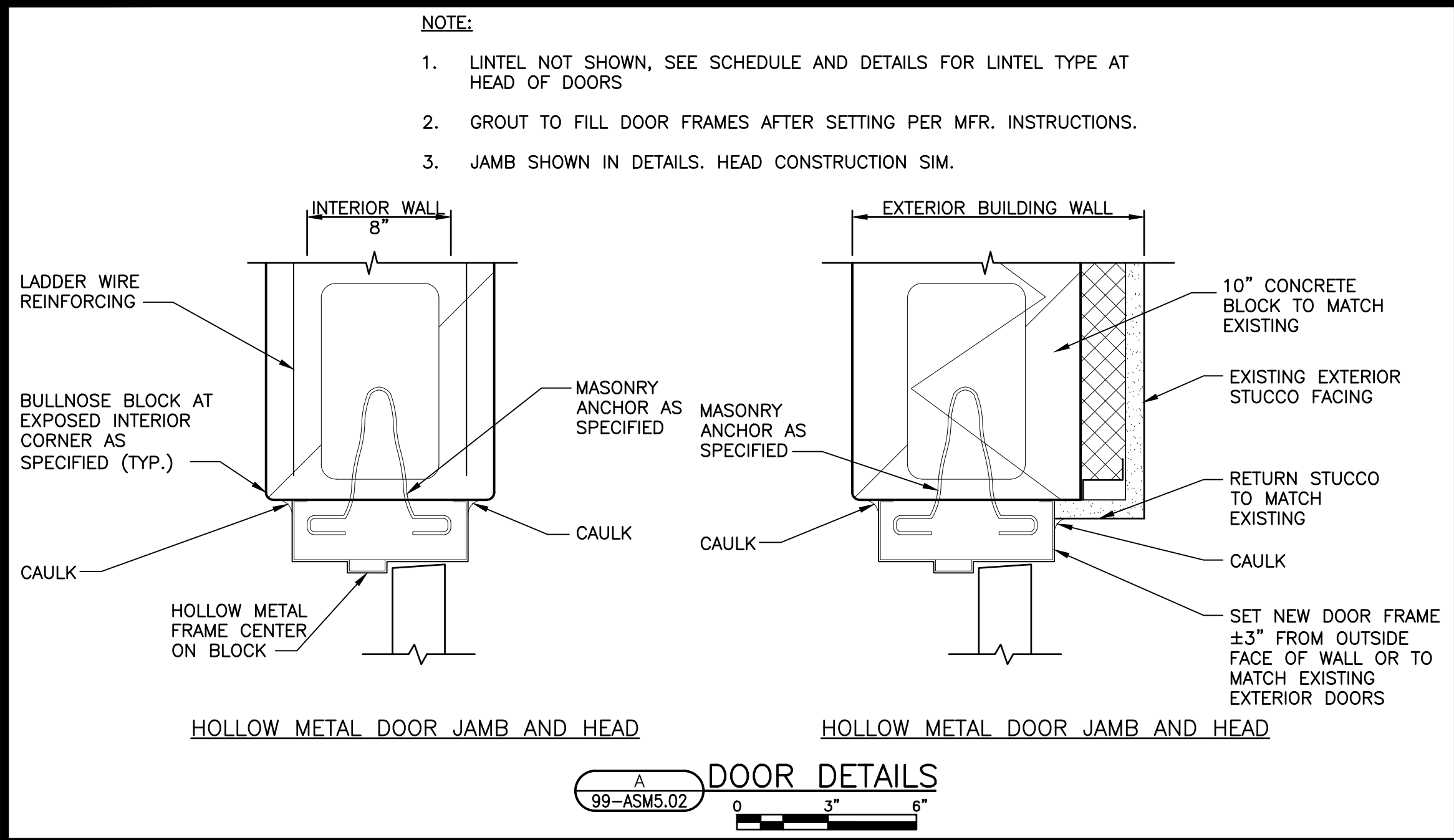
**WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN**

**JOB NO.**  
2679.002

**PROJECT MGR.**  
JOHN SCHUSTER

The logo for Strand Associates, featuring a stylized 'SA' monogram above the words 'STRAND ASSOCIATES' in a bold, sans-serif font.

**SHEET**  
**20**  
**99-ASM5.01**



**ARCHITECTURAL/STRUCTURAL/MECHANICAL DETAILS - 2**

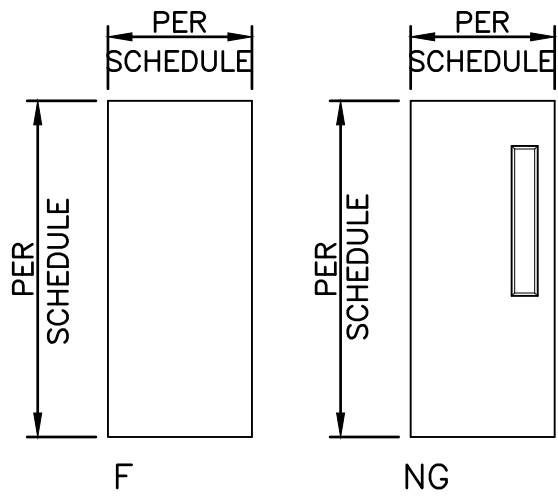
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

**JOB NO.**  
2679.002

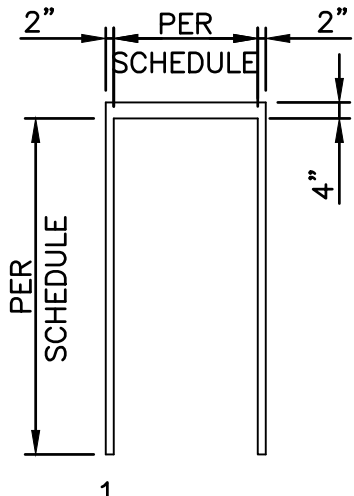
**PROJECT MGR.**  
BRENT SCHUSTER

**STRAND ASSOCIATES**

**SHEET 21**  
99-ASM5.02



DOOR TYPES  
NO SCALE



FRAME TYPES  
NO SCALE

| DOOR SCHEDULE                                                                                                                                                          |                 |          |                        |          |        |          |       |                                   |       |                              |                    |        |         |  |      |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|------------------------|----------|--------|----------|-------|-----------------------------------|-------|------------------------------|--------------------|--------|---------|--|------|-------|
| DOOR<br>NUMBER                                                                                                                                                         | DOOR            |          |                        |          |        |          | FRAME |                                   | LABEL | HARDWARE GROUP               |                    | LINTEL | DETAILS |  |      | NOTES |
|                                                                                                                                                                        | SIZE            | MATERIAL | TYPE                   |          | SWING  |          | TYPE  | MATERIAL                          |       | TYPE                         | HEAD               | JAMB   | SILL    |  |      |       |
|                                                                                                                                                                        |                 |          | ACTIVE                 | INACTIVE | ACTIVE | INACTIVE |       |                                   |       |                              |                    |        |         |  |      |       |
| STR 80- BELT FILTER PRESS BUILDING                                                                                                                                     |                 |          |                        |          |        |          |       |                                   |       |                              |                    |        |         |  |      |       |
| 8001A                                                                                                                                                                  | 3'-0" x 7'-0"   | IHM      | F                      | --       | LHR    | --       | 1     | STL                               | --    | 1                            | --                 | A-2    |         |  | 1, 4 |       |
| 8001B                                                                                                                                                                  | 14'-0" x 11'-6" | IHM      | IOSD                   | --       | --     | --       | ---   | STL                               | --    | ELECTRIC; 1/2 HP, 120V, 1 PH |                    | EXIST. |         |  | 2, 3 |       |
| 8002A                                                                                                                                                                  | 3'-0" x 7'-0"   | IHM      | F                      | --       | RH     | --       | 1     | STL                               | --    | 3                            | --                 | B-1    |         |  | 1, 4 |       |
| 8003A                                                                                                                                                                  | 3'-4" x 7'-0"   | IHM      | NG                     | --       | RHR    | --       | 1     | STL                               | --    | 1                            | --                 | EXIST. |         |  | 2, 3 |       |
| 8004A                                                                                                                                                                  | 3'-0" x 7'-0"   | IHM      | NG                     | --       | RHR    | --       | 1     | STL                               | --    | 1                            | --                 | A-2    |         |  | 1, 4 |       |
| 8004B                                                                                                                                                                  | 3'-0" x 7'-0"   | IHM      | HG                     | --       | RH     | --       | 1     | STL                               | --    | 2                            | --                 | B-1    |         |  | 1, 4 |       |
| LEGEND:                                                                                                                                                                |                 |          |                        |          |        |          |       |                                   |       |                              |                    |        |         |  |      |       |
|                                                                                                                                                                        |                 | MATERIAL |                        |          |        |          | TYPE  |                                   |       | SWING                        |                    |        |         |  |      |       |
|                                                                                                                                                                        | IHM             | =        | INSULATED HOLLOW METAL |          |        | F        | =     | FLUSH (NO GLASS)                  | LH    | =                            | LEFT HAND          |        |         |  |      |       |
|                                                                                                                                                                        | STL             | =        | STEEL                  |          |        | HG       | =     | HALF GLASS                        | RH    | =                            | RIGHT HAND         |        |         |  |      |       |
|                                                                                                                                                                        |                 |          |                        |          |        | IOSD     | =     | INSULATED OVERHEAD SECTIONAL DOOR | LHR   | =                            | LEFT HAND REVERSE  |        |         |  |      |       |
|                                                                                                                                                                        |                 |          |                        |          |        | NG       | =     | NARROW GLASS                      | RHR   | =                            | RIGHT HAND REVERSE |        |         |  |      |       |
| NOTES:                                                                                                                                                                 |                 |          |                        |          |        |          |       |                                   |       |                              |                    |        |         |  |      |       |
| 1. SEE DETAIL B/99-ASM5.02 FOR LINTEL DETAILS.                                                                                                                         |                 |          |                        |          |        |          |       |                                   |       |                              |                    |        |         |  |      |       |
| 2. EXISTING LINTEL TO REMAIN. SAND AND PAINT EXISTING LINTEL AS SPECIFIED.                                                                                             |                 |          |                        |          |        |          |       |                                   |       |                              |                    |        |         |  |      |       |
| 3. CONTRACTOR SHALL FIELD VERIFY EXISTING OPENING DIMENSIONS AND CHARACTERISTICS. COORDINATE AND CONFIRM WITH DOOR SUPPLIER FOR SHOP DRAWINGS AND PROPER INSTALLATION. |                 |          |                        |          |        |          |       |                                   |       |                              |                    |        |         |  |      |       |
| 4. SEE DETAIL A/99-ASM5.02 FOR DOOR JAMB AND HEAD DETAILS.                                                                                                             |                 |          |                        |          |        |          |       |                                   |       |                              |                    |        |         |  |      |       |

| LINTEL SCHEDULE                                                   |                     |                        |             |
|-------------------------------------------------------------------|---------------------|------------------------|-------------|
| LOCATION                                                          | OPENING TYPE        | OPENING CLEAR WIDTH(S) | LINTEL TYPE |
| 80 - BELT FILTER PRESS BUILDING                                   |                     |                        |             |
| ROOM 8001 - EAST WALL                                             | HVAC DUCT (EXHAUST) | 1'-0"                  | B-1         |
| ROOM 8001 - EAST WALL                                             | HVAC DUCT (SUPPLY)  | 1'-6"                  | B-1         |
| EQUIPMENT PLATFORM - EAST WALL                                    | LOUVER L-80-01      | 1'-8"                  | A-2         |
| NOTES:                                                            |                     |                        |             |
| 1. SEE DOOR AND WINDOW SCHEDULES FOR LINTELS AT DOORS AND WINDOWS |                     |                        |             |
| 2. SEE DETAIL B/99-ASM5.02 FOR LINTEL TYPES AND DETAILS           |                     |                        |             |

| CLEAR COVER TO REINFORCING BARS                                                                                                                                              |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| ITEM                                                                                                                                                                         | MINIMUM CLEAR COVER |
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH                                                                                                                       | 3"                  |
| CONCRETE EXPOSED TO EARTH, LIQUID, OR WEATHER                                                                                                                                | 2"                  |
| SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER, LIQUID, OR IN CONTACT WITH GROUND                                                                                            | 1"                  |
| BEAMS AND COLUMNS NOT EXPOSED TO WEATHER, LIQUID, OR IN CONTACT WITH GROUND                                                                                                  | 1 1/2"              |
| NOTES:                                                                                                                                                                       |                     |
| 1. CLEAR COVER IS MEASURED FROM MEMBER FACE TO NEAREST EDGE OF REINFORCING BAR                                                                                               |                     |
| 2. CLEAR COVER FOR BEAMS AND COLUMNS IS MEASURED TO NEAREST EDGE OF STIRRUPS.                                                                                                |                     |
| 3. FOR WALLS AND SLABS WITH SINGLE MAT OF REINFORCING, PLACE REBAR WHERE SHOWN ON THE DRWGS. WHERE COVER IS NOT INDICATED, CENTER SINGLE MAT OF REINFORCING IN WALL OR SLAB. |                     |

| ALLOWABLE STRESSES AND LOADS  |                                                 |
|-------------------------------|-------------------------------------------------|
| MATERIAL                      | MATERIAL STRESS, DESIGNATION, OR ALLOWABLE LOAD |
| CIP CONCRETE                  | $f'_c$ = 4000 psi                               |
| CONCRETE MASONRY              | $f'_m$ = 2500 psi                               |
| REINFORCING STEEL (GRADE 60)  | $F_y$ = 60 ksi                                  |
| STRUCTURAL STEEL              | $F_y$ = 36 ksi or 50 ksi                        |
| STRUCTURAL ALUMINUM (6061-T6) | $F_y$ = 35 ksi                                  |
| WELDING ELECTRODES            | E70XX                                           |
| ANCHOR BOLTS                  | ASTM F1554 GRADE 36                             |
| CONNECTION BOLTS              | ASTM A325                                       |
| ALLOWABLE SOIL BEARING (NET): | 2000 PSF                                        |

| MINIMUM LAP LENGTHS FOR REINFORCING BARS                                        |            |             |              |                 |
|---------------------------------------------------------------------------------|------------|-------------|--------------|-----------------|
| BAR SIZE                                                                        | WALLS      |             | SLABS        |                 |
|                                                                                 | VERT. BARS | HORIZ. BARS | TOP MAT BARS | BOTTOM MAT BARS |
| #4                                                                              | 1'-6"      | 1'-10"      | 1'-10"       | 1'-6"           |
| #5                                                                              | 1'-9"      | 2'-2"       | 2'-2"        | 1'-9"           |
| #6                                                                              | 2'-0"      | 2'-7"       | 2'-7"        | 2'-0"           |
| #7                                                                              | 2'-11"     | 3'-8"       | 3'-8"        | 2'-11"          |
| #8                                                                              | 3'-3"      | 4'-2"       | 4'-2"        | 3'-3"           |
| #9                                                                              | 4'-0"      | 5'-2"       | 5'-2"        | 4'-0"           |
| #10                                                                             | 4'-11"     | 6'-4"       | 6'-4"        | 4'-11"          |
| #11                                                                             | 5'-10"     | 7'-8"       | 7'-8"        | 5'-10"          |
| NOTES:                                                                          |            |             |              |                 |
| 1. WHERE TWO BARS OF DIFFERENT SIZE ARE LAPPED, USE LAP LENGTH FOR SMALLER BAR. |            |             |              |                 |
| 2. USE LAP LENGTHS IN THIS TABLE WHERE LAP LENGTH IS NOT SHOWN ON DRAWING.      |            |             |              |                 |
| 3. TABLE DOES NOT APPLY FOR BEAMS AND COLUMNS.                                  |            |             |              |                 |

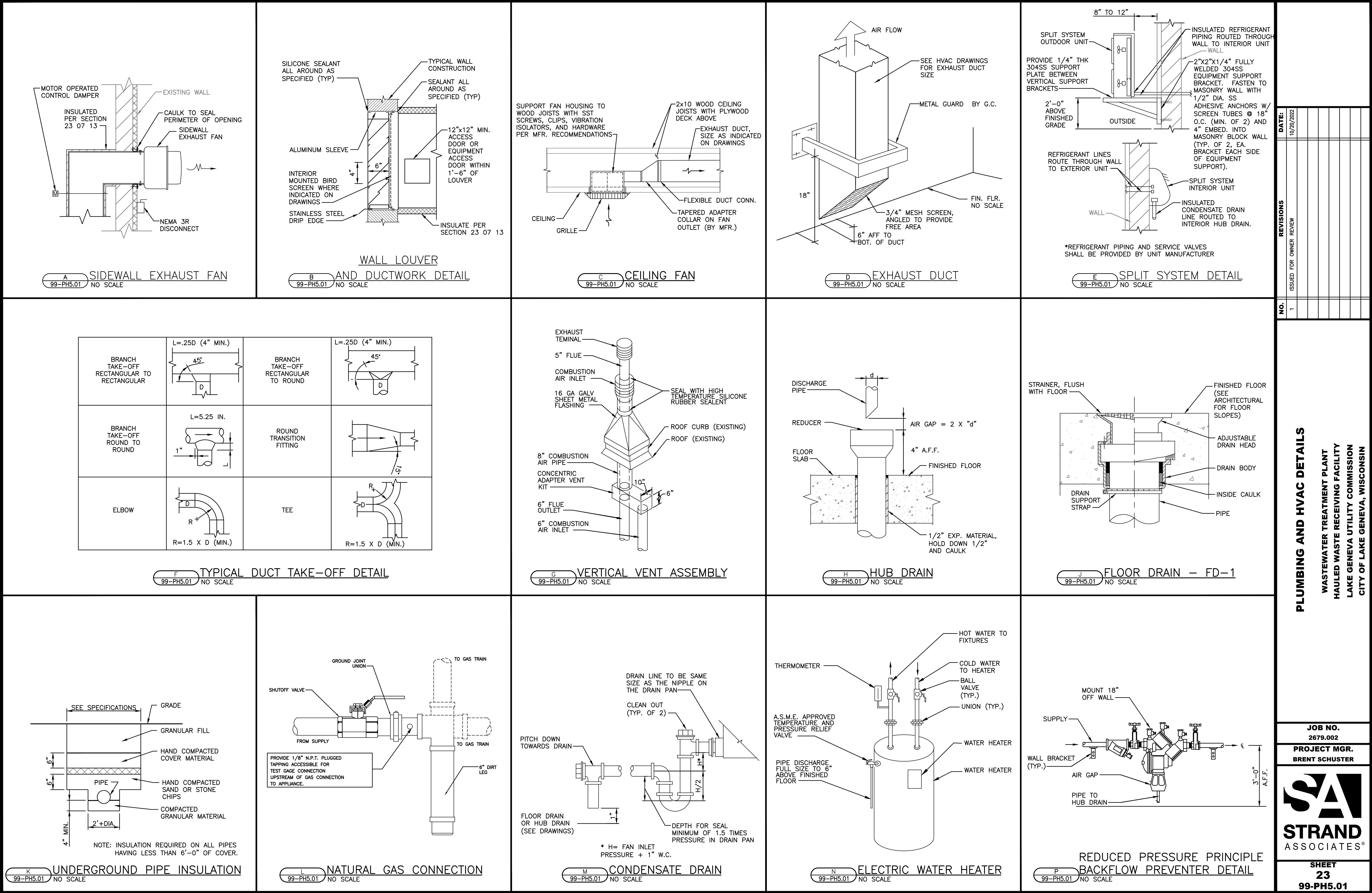
| ROOM FINISH SCHEDULE                                                                                                                 |                                         |       |             |         |                             |         |                            |         |                  |       |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------|-------------|---------|-----------------------------|---------|----------------------------|---------|------------------|-------|
| ROOM NO.                                                                                                                             | ROOM NAME                               | FLOOR | BASE        | N. WALL | E. WALL                     | S. WALL | W. WALL                    | CEILING |                  | NOTES |
|                                                                                                                                      |                                         |       |             |         |                             |         |                            | TYPE    | HGT.             |       |
| STR 80- BELT FILTER PRESS BUILDING                                                                                                   |                                         |       |             |         |                             |         |                            |         |                  |       |
| 8001                                                                                                                                 | HAULED WASTE PROCESSING ROOM            | F1    | -           | W1      | W1                          | W1/W2   | W1                         | -       | 15'-0" TO 15'-6" |       |
| 8002                                                                                                                                 | UNISEX RESTROOM                         | F2    | -           | W1      | W1                          | W1/W2   | W1                         | C1      | 7'-10"           |       |
| 8003                                                                                                                                 | HWRS CONTROL ROOM                       | F2    | -           | W1      | W1/W2                       | W2      | W1                         | C1      | 7'-10"           |       |
| 8004                                                                                                                                 | HAULED WASTE RECEIVING ROOM             | F1    | -           | W1      | W1/W2                       | W1      | W1                         | C1      | 7'-10"           |       |
| 8005                                                                                                                                 | BELT FILTER PRESS ROOM                  | -     | -           | -       | W1                          | W1      | -                          | -       | 15'-0" TO 15'-6" | 1     |
| -                                                                                                                                    | EQUIPMENT PLATFORM                      | F3    | -           | -       | W1/W2                       | W2      | W1                         | -       | 6'-3" TO 6'-6"   |       |
| LEGEND:                                                                                                                              |                                         |       |             |         |                             |         |                            |         |                  |       |
| FLOOR                                                                                                                                |                                         | BASE  |             | WALL    |                             | CEILING |                            |         |                  |       |
| CODE                                                                                                                                 | DESCRIPTION                             | CODE  | DESCRIPTION | CODE    | DESCRIPTION                 | CODE    | DESCRIPTION                |         |                  |       |
| F1                                                                                                                                   | SEALED CONCRETE - LIGHT BROOM FINISH    | B1    | VINYL BASE  | W1      | PAINT CONCRETE BLOCK        | C1      | PAINTED DRYWALL            |         |                  |       |
| F2                                                                                                                                   | SEALED CONCRETE - LIGHT TROWELED FINISH |       |             | W2      | PAINT EXIST. CONCRETE BLOCK | C2      | FRP CEILING PANEL          |         |                  |       |
| F3                                                                                                                                   | 3/4" PLYWOOD                            |       |             | W3      | FRP WALL PANEL              | C3      | PAINT EXIST. METAL CEILING |         |                  |       |
|                                                                                                                                      |                                         |       |             | W4      | PAINTED DRYWALL             |         |                            |         |                  |       |
| NOTES:                                                                                                                               |                                         |       |             |         |                             |         |                            |         |                  |       |
| 1. PAINT ONLY THE NEW CONCRETE BLOCK WALLS ON THE EAST AND SOUTH SIDES OF THE ROOM. EXISTING WALLS IN THIS ROOM NEED NOT BE PAINTED. |                                         |       |             |         |                             |         |                            |         |                  |       |

ARCHITECTURAL/STRUCTURAL/MECHANICAL  
SCHEDULES  
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

JOB NO.  
2679.002  
PROJECT MGR.  
BRENT SCHUSTER



SHEET  
22  
99-ASM6.01



| SPLIT SYSTEM SCHEDULE |              |              |                  |                |                  |          |                           |                        |                |                          |              |                        |                |                    |       |                      |            |                               |                         |                         |         |
|-----------------------|--------------|--------------|------------------|----------------|------------------|----------|---------------------------|------------------------|----------------|--------------------------|--------------|------------------------|----------------|--------------------|-------|----------------------|------------|-------------------------------|-------------------------|-------------------------|---------|
| UNIT NO.              | LOCATION     | SERVICE      | DAIKIN MODEL NO. |                | FAN SECTION      |          | COOLING COIL SECTION      |                        |                | HEATING CAPACITY SECTION |              |                        |                | ELECTRICAL SECTION |       |                      |            |                               |                         | OPERATING WEIGHT (LBS.) | REMARKS |
|                       |              |              | (INDOOR UNIT)    | (OUTDOOR UNIT) | SUPPLY AIR (CFM) | QUANTITY | SENSIBLE CAPACITY (BTU/H) | TOTAL CAPACITY (BTU/H) | EAT DB/WB (°F) | SUPPLY AIR (CFM)         | LOAD (BTU/H) | TOTAL CAPACITY (BTU/H) | EAT DB/WB (°F) | VOLTAGE            | PHASE | FLA (INDOOR/OUTDOOR) | SYSTEM MCA | BREAKER SIZE (INDOOR/OUTDOOR) | STARTER & DISCONNECT BY |                         |         |
| SS-80-01              | CONTROL ROOM | CONTROL ROOM | FTK09AXVJU       | RKB09AXVJU     | 1083             | 1        | 8,040                     | 8,800                  | 80/67          | -                        | -            | -                      | -              | 208                | 1     | 0.3/0.38             | 7.0        | -                             | DIV. 26                 | 53                      | ①②      |

- ① PROVIDE PRECHARGED REFRIGENT PIPING KIT, SIZE AND LENGTH AS REQUIRED.
- ② PROVIDE LOW AMBIENT KIT FOR UNIT.

| MAKE UP AIR UNIT SCHEDULE |                    |                         |                        |             |                  |                                      |             |                             |                            |                |                 |             |             |               |         |       |          |                          |                               |         |
|---------------------------|--------------------|-------------------------|------------------------|-------------|------------------|--------------------------------------|-------------|-----------------------------|----------------------------|----------------|-----------------|-------------|-------------|---------------|---------|-------|----------|--------------------------|-------------------------------|---------|
| UNIT NO.                  | LOCATION           | SERVICE                 | GREENHECK<br>MODEL NO. | ARRANGEMENT | AIRFLOW<br>(CFM) | EXT. STATIC<br>PRESSURE<br>(IN W.C.) | FILTER TYPE | NATURAL GAS HEATING SECTION |                            |                |                 |             |             | ELECTRICAL    |         |       |          | STARTER/DISCONNECT<br>BY | OPERATING<br>WEIGHT<br>(LBS.) | REMARKS |
|                           |                    |                         |                        |             |                  |                                      |             | MAX. PRESSURE<br>(IN PSI)   | MIN. PRESSURE<br>(IN W.C.) | INPUT<br>(MBH) | OUTPUT<br>(MBH) | EAT<br>(°F) | LAT<br>(°F) | MOTOR<br>(HP) | VOLTAGE | PHASE | MCA/MOCP |                          |                               |         |
| MAU-80-01                 | EQUIPMENT PLATFORM | HAULED WASTE/PROCESSING | IGX-110-H12-I          | HORIZONTAL  | 2,600            | 1.0                                  | 2" ALUMINUM | 0.5                         | 6                          | 250            | 200             | -10         | 61.2        | 1.5           | 460     | 3     | 4.6/15   | MANUFACTURER             | 890                           |         |

| FAN SCHEDULE |            |                         |              |           |               |                      |                 |          |            |        |                     |            |       |            |               |                         |         |
|--------------|------------|-------------------------|--------------|-----------|---------------|----------------------|-----------------|----------|------------|--------|---------------------|------------|-------|------------|---------------|-------------------------|---------|
| UNIT NO.     | LOCATION   | SERVICE                 | MANUFACTURER | MODEL NO. | AIRFLOW (CFM) | EXT. S.P. (IN. W.C.) | MOTOR SIZE (HP) | FAN TYPE | MOTOR TYPE | DRIVE  | SOUND POWER (SONES) | ELECTRICAL |       |            |               | OPERATING WEIGHT (LBS.) | REMARKS |
|              |            |                         |              |           |               |                      |                 |          |            |        |                     | VOLTAGE    | PHASE | STARTER BY | DISCONNECT BY |                         |         |
| EF-80-01     | SOUTH WALL | HAULED WASTE PROCESSING | GREENHECK    | CUE-160-B | 2,600         | 0.5                  | 0.5             | UPBLAST  | TEFC       | BELT   | 13.9                | 115        | 1     | DIV 26     | DIV. 26       | 95                      | ①       |
| EF-80-02     | RESTROOM   | RESTROOM                | GREENHECK    | SP-LP0511 | 70            | 0.5                  | FRAC.           | CEILING  | TEAO       | INLINE | —                   | 115        | 1     | —          | DIV. 26       | 8                       |         |

- ① FAN SHALL BE SUITABLE FOR CLASS I, DIV. 1 ENVIRONMENTS.

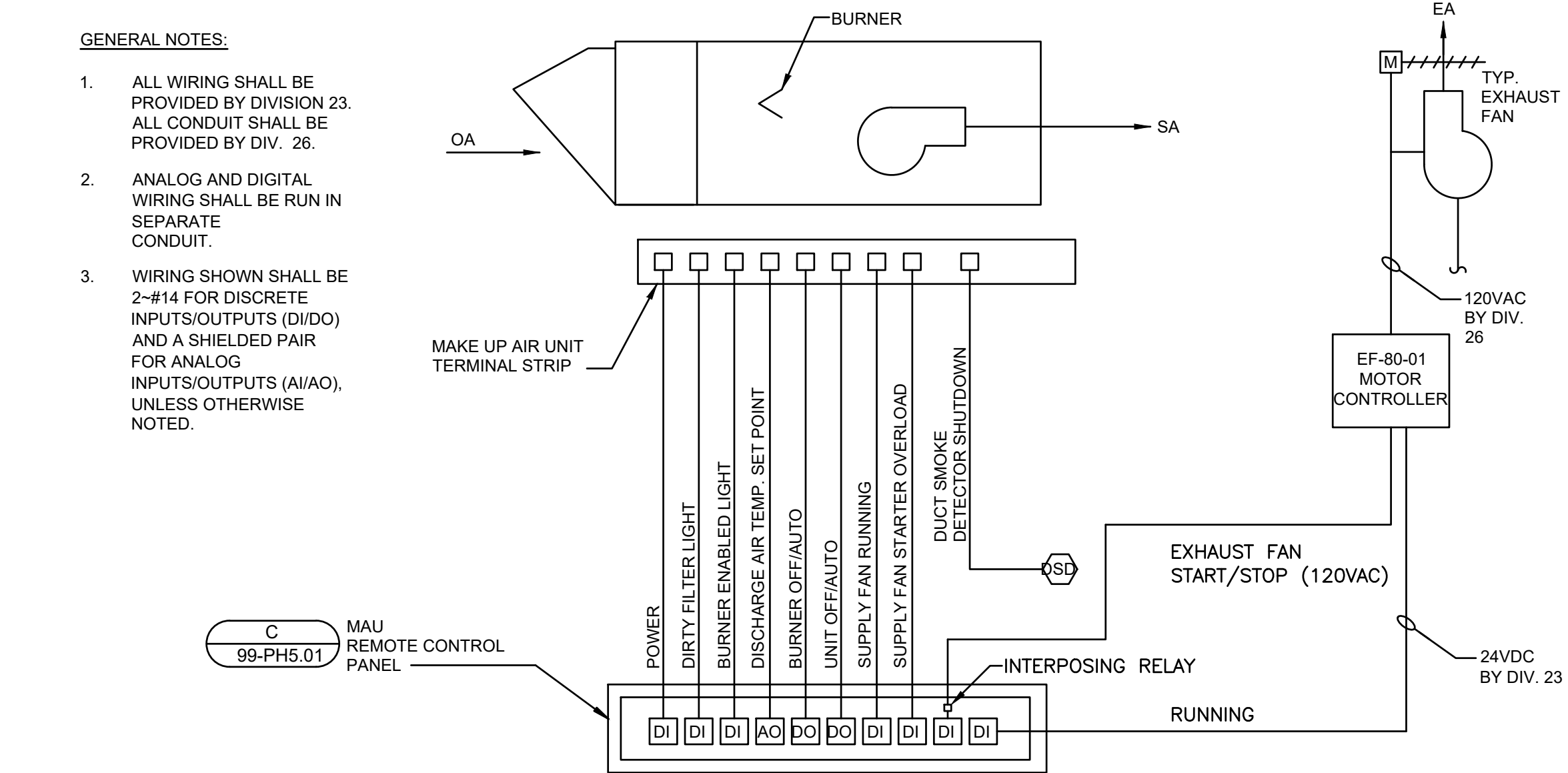
| WALL LOUVER SCHEDULE |                       |           |              |           |                  |               |                |                     |                     |                         |                        |        |          |                     |         |
|----------------------|-----------------------|-----------|--------------|-----------|------------------|---------------|----------------|---------------------|---------------------|-------------------------|------------------------|--------|----------|---------------------|---------|
| UNIT NO.             | LOCATION              | SERVICE   | MANUFACTURER | MODEL NO. | AIRFLOW<br>(CFM) | WIDTH<br>(IN) | HEIGHT<br>(IN) | BLADE DEPTH<br>(IN) | MAX. APD<br>(IN WG) | MAX. FACE<br>VEL. (FPM) | FREE AREA<br>(SQ. FT.) | SCREEN |          | BOTTOM<br>ELEVATION | REMARKS |
|                      |                       |           |              |           |                  |               |                |                     |                     |                         |                        | TYPE   | LOCATION |                     |         |
| L-80-01              | EQUIPMENT<br>PLATFORM | MAU-80-01 | GREENHECK    | ESD-635   | 2,600            | 32            | 32             | 0.081               | 0.07                | 696                     | 3.75                   | BIRD   | INTERIOR | 857.72              |         |

| ELECTRIC HEATER SCHEDULE |                 |              |              |               |                |            |       |      |               |         |
|--------------------------|-----------------|--------------|--------------|---------------|----------------|------------|-------|------|---------------|---------|
| UNIT NO.                 | LOCATION        | MANUFACTURER | MODEL NO.    | CAPACITY (kW) | CAPACITY (BTU) | ELECTRICAL |       |      |               | REMARKS |
|                          |                 |              |              |               |                | VOLTAGE    | PHASE | FLA  | DISCONNECT BY |         |
| EWB-80-01                | UNISEX RESTROOM | Q-MARK       | CWH3150F     | 1.5           | 5,118          | 120        | 1     | 12.5 | MANF.         |         |
| EWB-80-02                | CONTROL ROOM    | Q-MARK       | CWH3150F     | 1.5           | 5,118          | 120        | 1     | 12.5 | MANF.         |         |
| EUH-80-01                | HAULED WASTE    | INDEECO      | 233-FA-0036U | 3             | 10,236         | 480        | 3     | 3.6  | MANF.         | ①       |
| EUH-80-02                | HAULED WASTE    | INDEECO      | 233-FA-0036U | 3             | 10,236         | 480        | 3     | 3.6  | MANF.         | ①       |
| EUH-80-03                | RECEIVING ROOM  | INDEECO      | 233-FA-0036U | 3             | 10,236         | 480        | 3     | 3.6  | MANF.         | ①       |

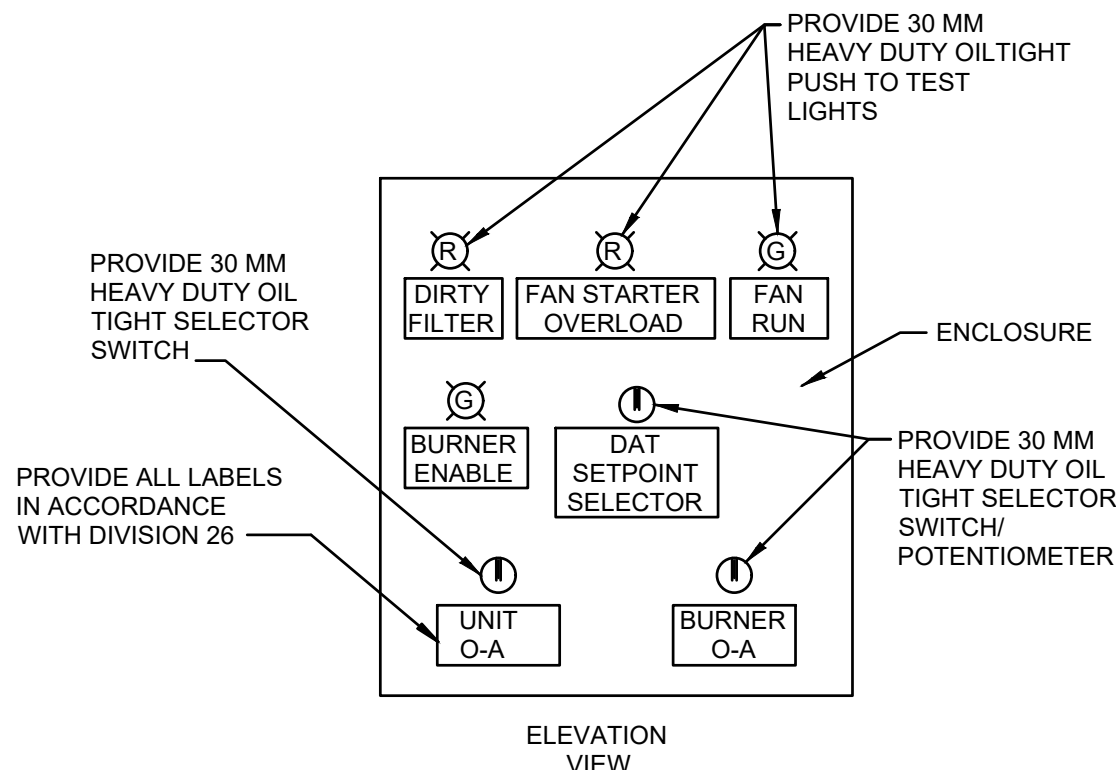
- ① UNIT HEATER SHALL BE SUITABLE FOR CLASS I, DIV. 1 ENVIRONMENTS.

| ELECTRIC WATER HEATER SCHEDULE |                    |                         |                            |                               |                           |            |       |                 |         |
|--------------------------------|--------------------|-------------------------|----------------------------|-------------------------------|---------------------------|------------|-------|-----------------|---------|
| UNIT NO.                       | LOCATION           | A.O. SMITH<br>MODEL NO. | TEMPERATURE<br>RISE<br>(F) | RECOVERY<br>CAPACITY<br>(GPH) | TANK<br>CAPACITY<br>(GAL) | ELECTRICAL |       | WEIGHT<br>(LBS) | REMARKS |
|                                |                    |                         |                            |                               |                           | VOLTAGE    | PHASE |                 |         |
| WH-80-01                       | EQUIPMENT PLATFORM | DEL-50                  | 90                         | 27                            | 50                        | 480        | 3     | 172             |         |
| WH-80-02                       | EQUIPMENT PLATFORM | DEL-30                  | 90                         | 27                            | 30                        | 480        | 3     | 118             |         |

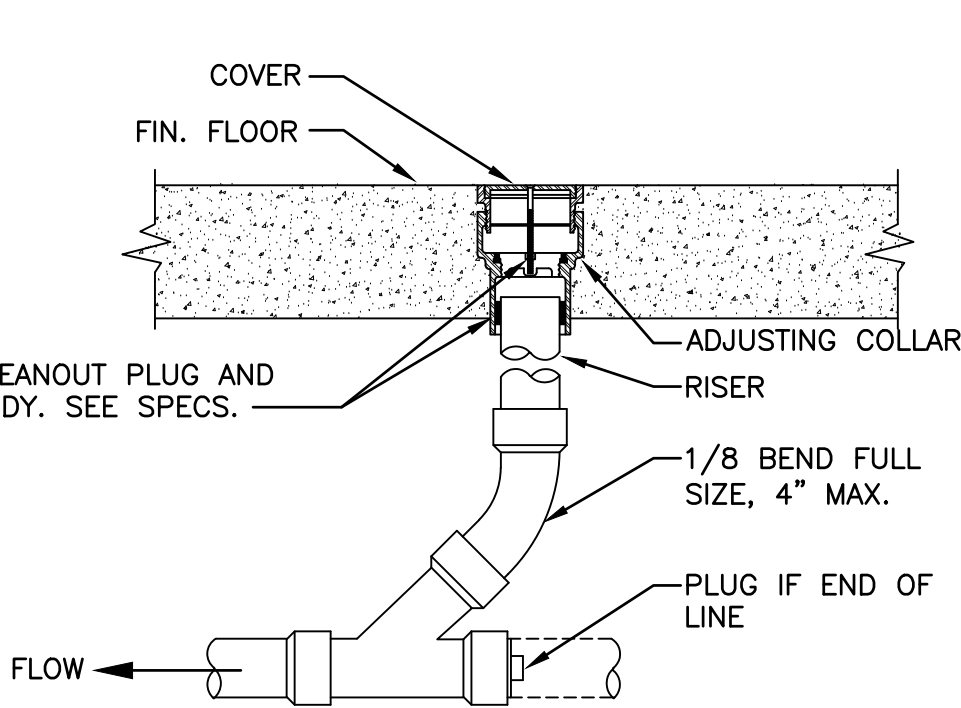
| DESIGN CONDITIONS                                            |                   |                                    |                      |         |
|--------------------------------------------------------------|-------------------|------------------------------------|----------------------|---------|
| APPLICABLE BUILDING CODE: WISCONSIN ENERGY CONSERVATION CODE |                   |                                    |                      |         |
|                                                              |                   | SUMMER EXTERIOR: 89°F DB / 77°F WB |                      |         |
|                                                              |                   | WINTER EXTERIOR: -10°F DB          |                      |         |
| OCCUPANCY TYPE                                               | VENTILATION       | SUMMER INTERIOR (DB/WB)            | WINTER INTERIOR (DB) | REMARKS |
| HAULED WASTE                                                 | 12 ACH CONTINUOUS | AMBIENT                            | 60                   |         |
| UNISEX RESTROOM                                              | 70 CFM/FIXTURE    | AMBIENT                            | 72                   |         |
| CONTROL ROOM                                                 | EQUIPMENT COOLING | 75                                 | 72                   |         |
| RECEIVING ROOM                                               | 12 ACH CONTINUOUS | AMBIENT                            | 60                   |         |
| EQUIPMENT PLATFORM                                           | NO VENTILATION    | AMBIENT                            | AMBIENT              |         |



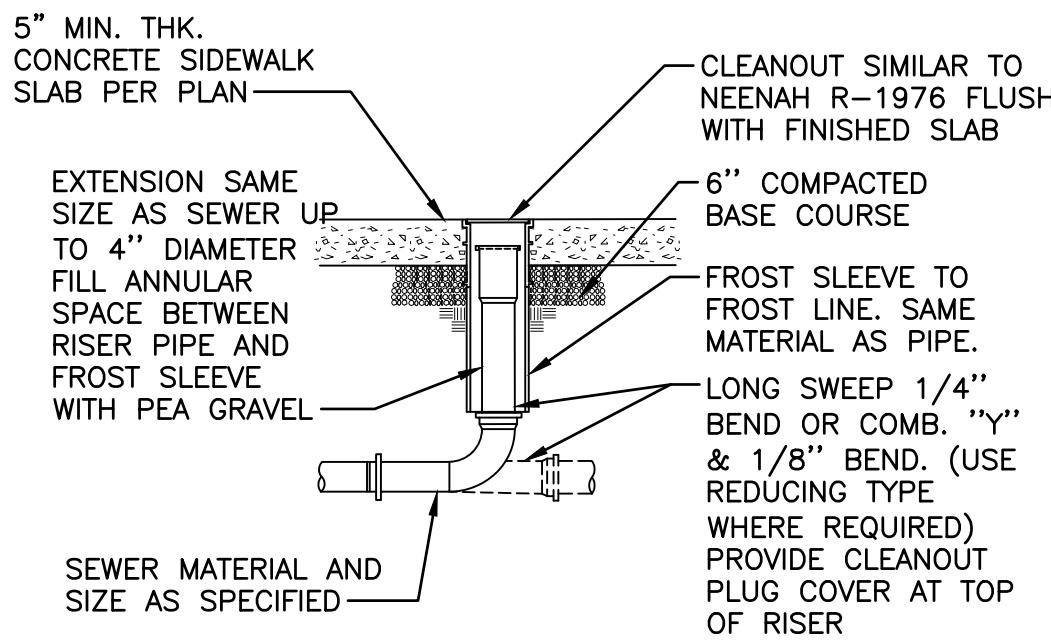
B MAKE UP AIR UNIT CONTROLS  
99-PH6.01 NO SCALE



C MAU TEMPERATURE CONTROL PANEL  
99-PH6.01 NO SCALE



D FLOOR CLEANOUT  
99-PH6.01 NO SCALE



E EXTERIOR CLEANOUT DETAIL  
99-PH6.01 NO SCALE

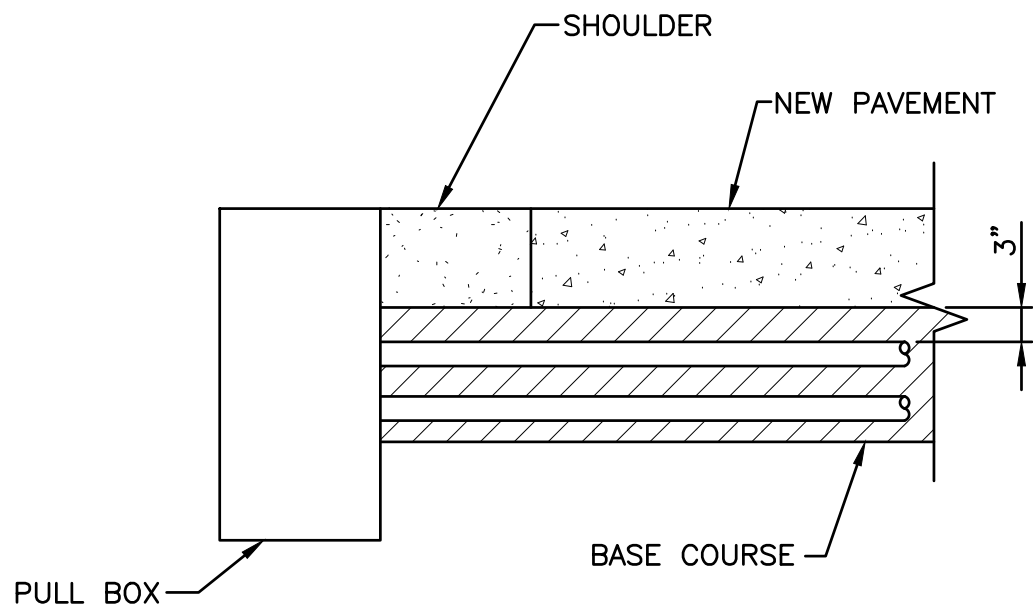
PLUMBING AND HVAC SCHEDULES AND DETAILS

WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

JOB NO.  
2679.002  
PROJECT MGR.  
BRENT SCHUSTER

STRAND  
ASSOCIATES®

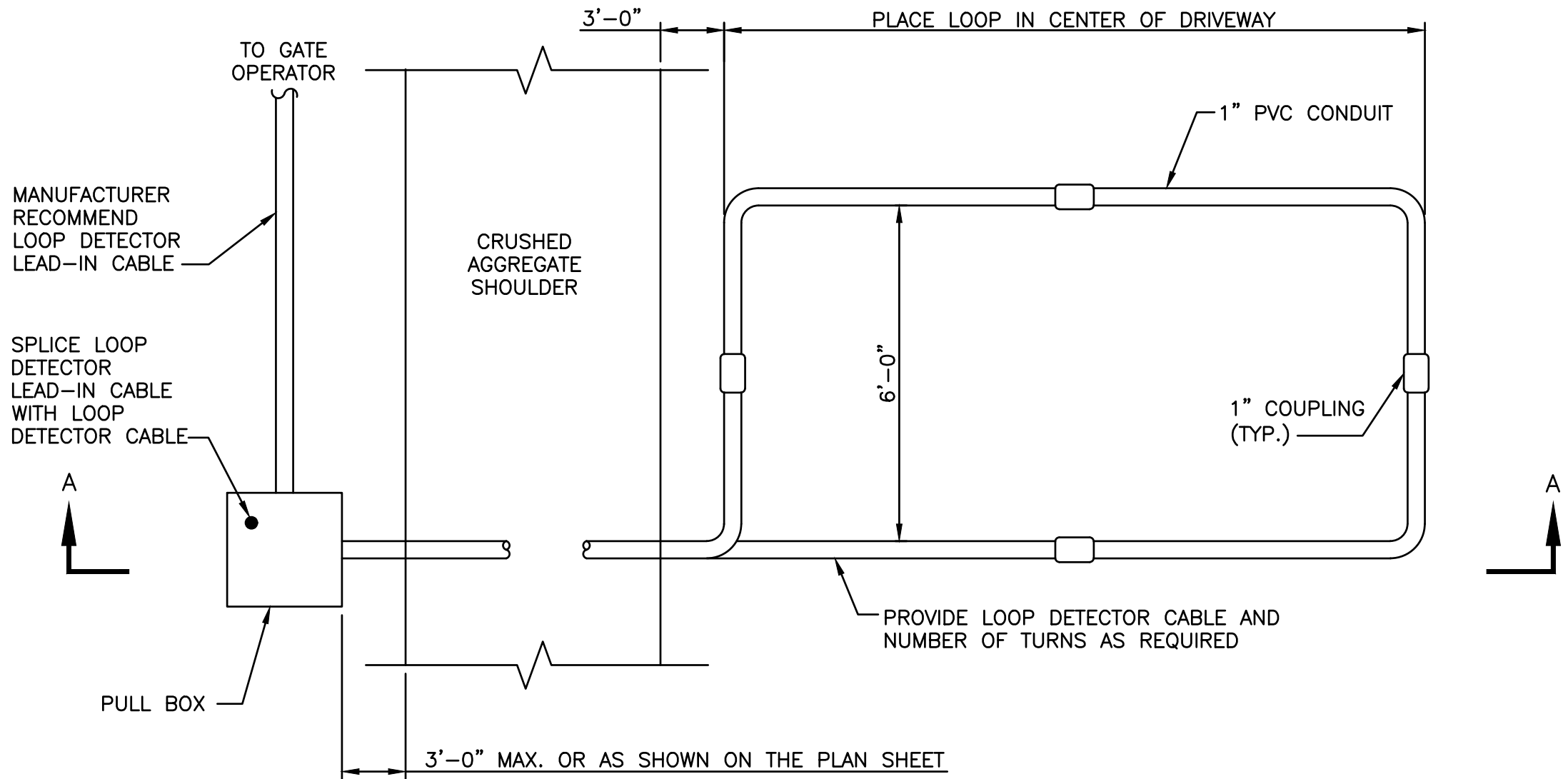
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99-PH6.01



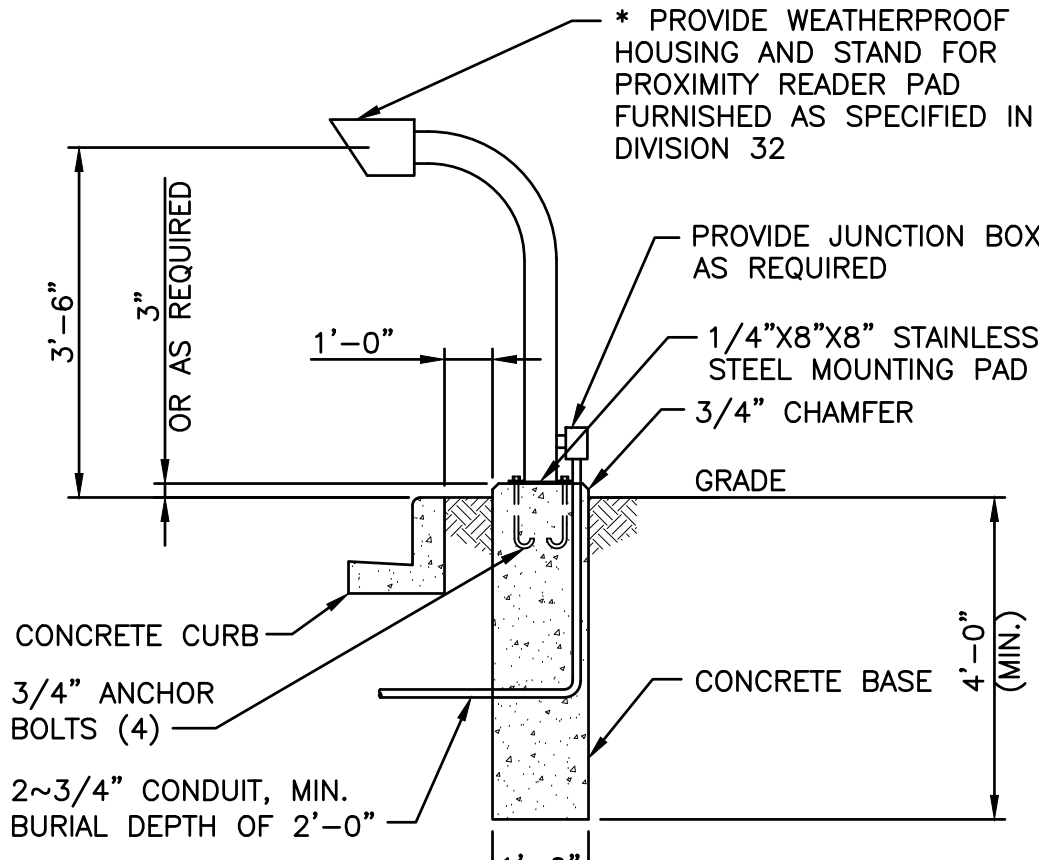
SECTION A-A

NOTES:

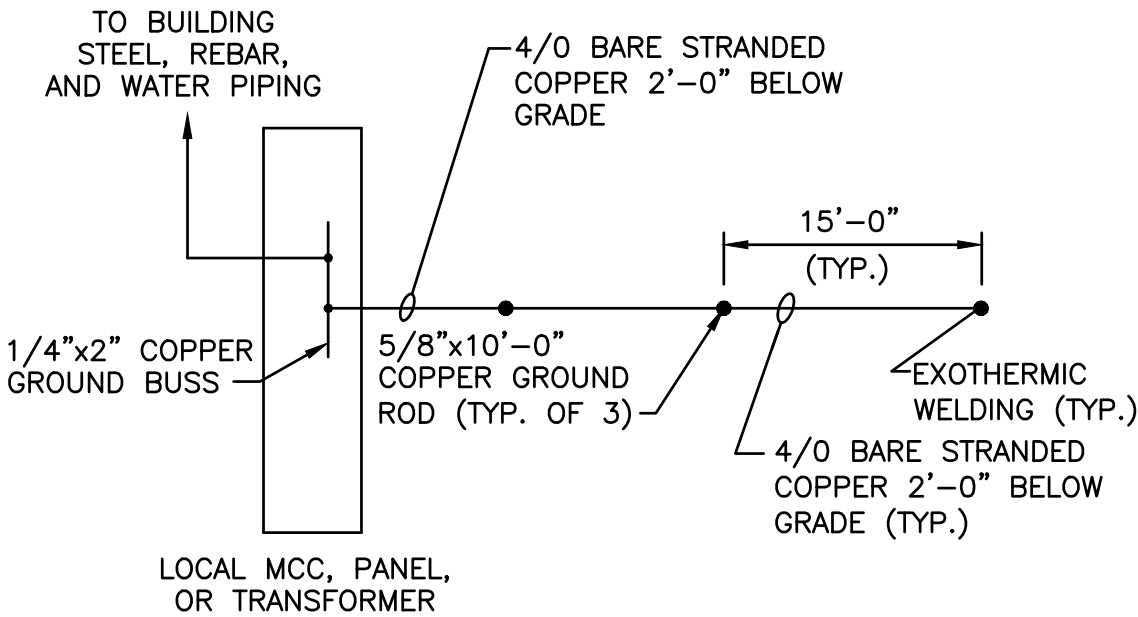
1. SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPlice KITS SUCH AS 3M TYPE 82A1, OR EQUAL. NON-INSULATED BUTT SPLICES TO FIT STRANDED WIRE SHALL NOT BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPlice KIT.
2. MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.
3. AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE, AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO ENGINEER FOR REVIEW.
4. LOOP DETECTOR LEAD-IN CABLE SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE.
5. THE LOOP WIRE IN THE PULL BOX SHALL BE HAND TWISTED AT LEAST 2 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.
6. SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE PAVEMENT.
7. THE LOOP WIRE SHALL BE INSTALLED FROM THE PULL BOX THROUGH THE LOOP CONDUIT. BACK TO THE PULL BOX AND BE INSTALLED IN ONE NON-SPLICED CONTINUOUS LENGTH.
8. PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.



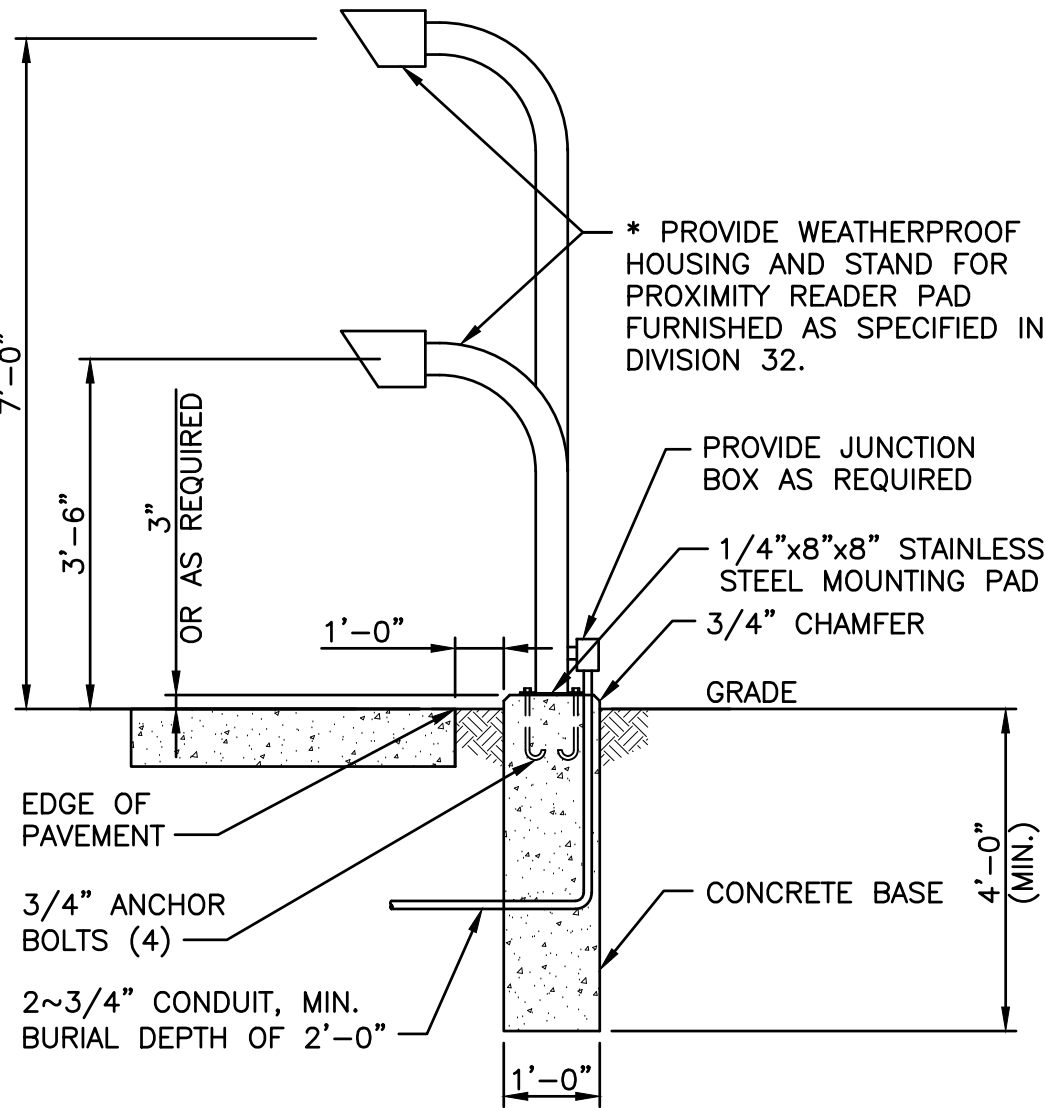
A  
99-E5.01  
NO SCALE



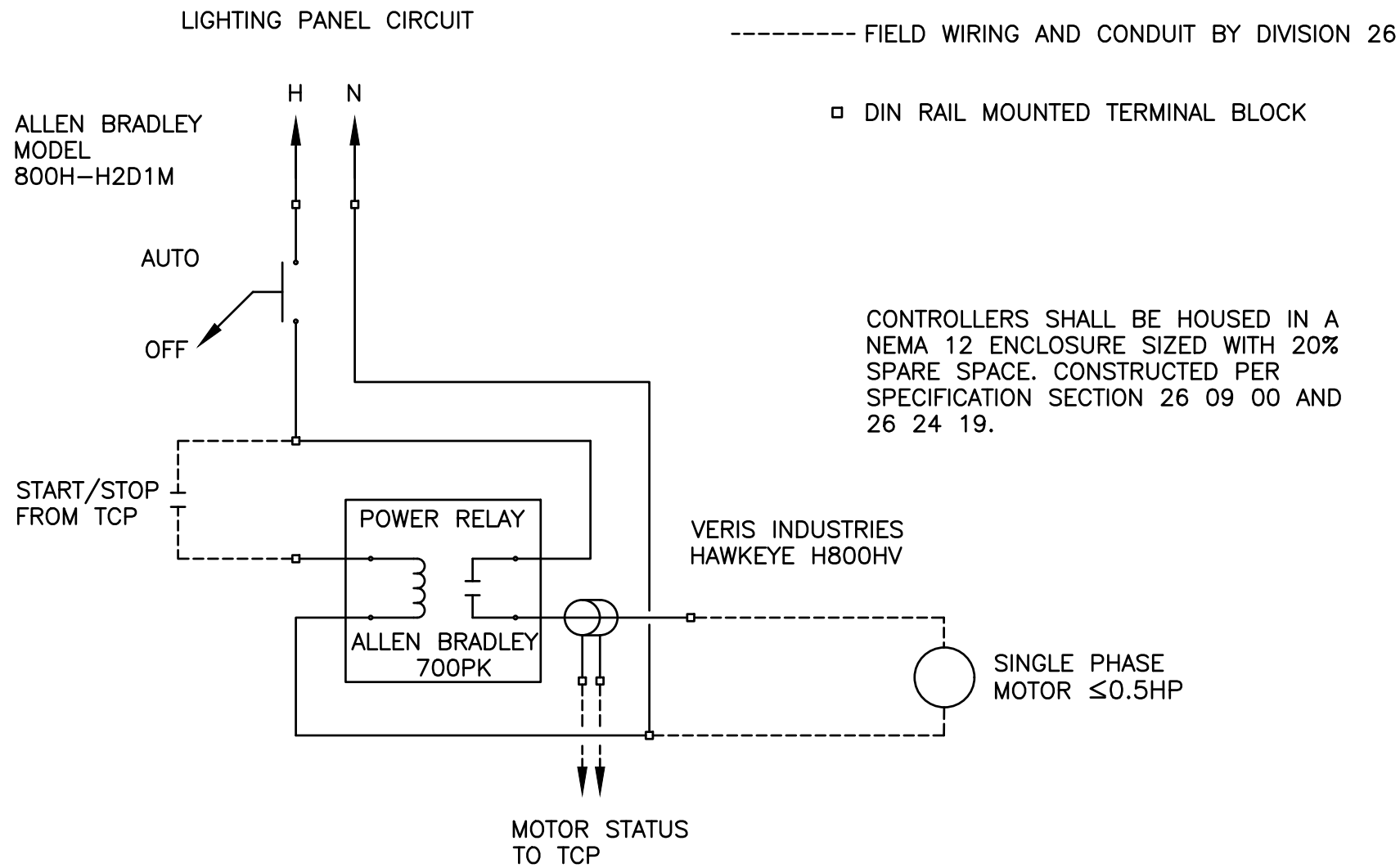
B  
99-E5.01  
NO SCALE



C  
99-E5.01  
NO SCALE



D  
99-E5.01  
NO SCALE



E  
99-E5.01  
NO SCALE

**ELECTRICAL DETAILS**  
WASTEWATER TREATMENT PLANT  
HAULED WASTE RECEIVING FACILITY  
LAKE GENEVA UTILITY COMMISSION  
CITY OF LAKE GENEVA, WISCONSIN

**JOB NO.**  
2679.002  
**PROJECT MGR.**  
BRENT SCHUSTER



**SHEET**  
25  
99-E5.01

| DISTRIBUTION PANEL                               |    |       |       |                   |         |         |         |         |         |         |                            |                   |          |                         |   |  |
|--------------------------------------------------|----|-------|-------|-------------------|---------|---------|---------|---------|---------|---------|----------------------------|-------------------|----------|-------------------------|---|--|
| Service: 277/480V, 3ø, 4W                        |    |       |       | Enclosure: NEMA 1 |         |         |         |         |         |         |                            | Mounting: Surface |          | Copper                  |   |  |
| Main Breaker: 400A MCB (S.E. Rated, Bottom Feed) |    |       |       |                   |         |         |         |         |         |         |                            | Main Bus:         |          | 35 kAIC                 |   |  |
| Location: Belt Filter Press Room                 |    |       |       |                   |         |         |         |         |         |         |                            | SCIC:             |          |                         |   |  |
| Room Number/Description                          |    | Amps  | Poles | Ckt. #            | Phase A | Phase B | Phase C | Phase A | Phase B | Phase C | Ckt. #                     | Poles             | Amps     | Room Number/Description |   |  |
| Existing Load                                    | 15 | 3     | 1     |                   |         |         |         |         |         |         | 2                          | 3                 | 15       | Existing Load           |   |  |
|                                                  |    |       | 3     |                   |         |         |         |         |         | 4       |                            |                   |          |                         |   |  |
|                                                  |    |       | 5     |                   |         |         |         |         |         | 6       |                            |                   |          |                         |   |  |
|                                                  |    |       | 7     |                   |         |         |         |         |         | 8       |                            |                   |          |                         |   |  |
| Existing Load                                    | 15 | 3     | 9     |                   |         |         |         |         |         |         | 10                         | 3                 | 15       | Existing Load           |   |  |
|                                                  |    |       | 11    |                   |         |         |         |         |         | 12      |                            |                   |          |                         |   |  |
|                                                  |    |       | 13    |                   |         |         |         |         |         | 14      |                            |                   |          |                         |   |  |
|                                                  |    |       | 15    |                   |         |         |         |         |         | 16      |                            |                   |          |                         |   |  |
| Existing Load                                    | 30 | 3     | 17    |                   |         |         |         |         |         |         | 18                         | 3                 | 60       | Existing Load           |   |  |
|                                                  |    |       | 19    | 5543              |         |         | 582     |         |         | 20      |                            |                   |          |                         |   |  |
|                                                  |    |       | 21    |                   | 5543    |         |         | 582     |         | 22      |                            |                   |          |                         |   |  |
|                                                  |    |       | 23    |                   |         | 5543    |         |         | 582     | 24      |                            |                   |          |                         |   |  |
| HWS MCP-80-01                                    | 25 | 3     | 25    | 832               |         |         | 582     |         |         |         | 26                         | 3                 | 20       | G-05-01                 |   |  |
|                                                  |    |       | 27    |                   | 832     |         |         | 582     |         | 28      |                            |                   |          |                         |   |  |
|                                                  |    |       | 29    |                   |         | 832     |         |         | 582     | 30      |                            |                   |          |                         |   |  |
|                                                  |    |       | 31    | 2222              |         |         | 2222    |         |         | 32      |                            |                   |          |                         |   |  |
| MAU-80-01                                        | 20 | 3     | 33    |                   | 2222    |         |         | 2222    |         |         | 34                         | 3                 | 20       | G-05-02                 |   |  |
|                                                  |    |       | 35    |                   |         | 2222    |         |         | 2222    | 36      |                            |                   |          |                         |   |  |
|                                                  |    |       | 37    | 1385              |         |         | 1385    |         |         | 38      |                            |                   |          |                         |   |  |
|                                                  |    |       | 39    |                   | 1385    |         |         | 1385    |         | 40      |                            |                   |          |                         |   |  |
| WH-80-01                                         | 20 | 3     | 41    |                   |         | 1385    |         |         |         | 42      | 3                          | 20                | WH-80-02 |                         |   |  |
|                                                  |    |       | 43    | 1385              |         |         |         |         | 1385    | 44      |                            |                   |          |                         |   |  |
|                                                  |    |       | 45    |                   | 1385    |         |         |         |         | 46      |                            |                   |          |                         |   |  |
|                                                  |    |       | 47    |                   |         | 1385    |         |         |         | 48      |                            |                   |          |                         |   |  |
| EUH-80-01                                        | 20 | 3     | 49    |                   |         |         |         |         |         | 50      | 3                          | -                 | Space    |                         |   |  |
|                                                  |    |       | 51    |                   |         |         |         |         |         | 52      |                            |                   |          |                         |   |  |
|                                                  |    |       | 53    |                   |         |         |         |         |         | 54      |                            |                   |          |                         |   |  |
|                                                  |    |       |       |                   |         |         |         |         |         |         |                            |                   |          |                         |   |  |
| Total Load per Phase per Side (VA)               |    |       |       | 11367             | 11367   | 11367   | 4771    | 4771    | 4771    |         |                            |                   |          |                         |   |  |
| Total Load Phase A (VA)                          |    | 16138 | VA    |                   |         |         |         |         |         |         | Total Connected Load       |                   |          | 58                      | A |  |
| Total Load Phase B (VA)                          |    | 16138 | VA    |                   |         |         |         |         |         |         | Total Connected Load + 25% |                   |          | 73                      | A |  |
| Total Load Phase C (VA)                          |    | 16138 | VA    |                   |         |         |         |         |         |         | Spare 25%                  |                   |          | 18                      | A |  |
| Total Connected Load (VA)                        |    | 48414 | VA    |                   |         |         |         |         |         |         | Feeder Load                |                   |          | 91                      | A |  |

| LIGHTING PANEL LP-1 (Subpanel)        |  |       |       |                   |         |         |         |         |         |         |                            |                   |      |                         |   |  |
|---------------------------------------|--|-------|-------|-------------------|---------|---------|---------|---------|---------|---------|----------------------------|-------------------|------|-------------------------|---|--|
| Service: 120/208V, 3ø, 4W             |  |       |       | Enclosure: NEMA 1 |         |         |         |         |         |         |                            | Mounting: Surface |      | Surface                 |   |  |
| Main Breaker: 60 MLO                  |  |       |       |                   |         |         |         |         |         |         |                            | Main Bus: Copper  |      | Copper                  |   |  |
| Location: Belt Filter Press Room      |  |       |       |                   |         |         |         |         |         |         |                            | SCIC: 10 kAIC     |      | 10 kAIC                 |   |  |
| Room Number/Description               |  | Amps  | Poles | Ckt. #            | Phase A | Phase B | Phase C | Phase A | Phase B | Phase C | Ckt. #                     | Poles             | Amps | Room Number/Description |   |  |
| OHD-80-01                             |  | 20    | 1     | 1                 | 1176    |         |         | 1667    |         |         | 2                          | 1                 | 20   | EWH-80-02               |   |  |
| Hauled Waste Process/Receiving Lights |  | 20    | 1     | 3                 |         | 756     |         |         | 1176    |         | 4                          | 1                 | 20   | EF-80-01                |   |  |
| Restroom/Control Room Lights/EF-80-02 |  | 20    | 1     | 5                 |         |         | 170     |         |         | 100     | 6                          | 1                 | 20   | Spare                   |   |  |
| EWH-80-01                             |  | 20    | 1     | 7                 | 1667    |         |         | 1440    |         |         | 8                          | 1                 | 20   | SA-80-01                |   |  |
| SS-80-01                              |  | 20    | 2     | 9                 |         | 467     |         |         | 540     |         | 10                         | 1                 | 20   | Receptacles             |   |  |
|                                       |  |       |       | 11                |         |         | 467     |         |         | 540     | 12                         | 1                 | 20   | Receptacles             |   |  |
| DSD Relay Enclosure                   |  | 20    | 1     | 13                | 500     |         |         | —       |         |         | 14                         | 1                 | 20   | Spare                   |   |  |
| Spare                                 |  | 20    | 1     | 15                |         | —       |         |         | —       |         | 16                         | 1                 | 20   | Spare                   |   |  |
| Spare                                 |  | 20    | 1     | 17                |         |         | —       |         |         | —       | 18                         | 1                 | 20   | Spare                   |   |  |
| Spare                                 |  | 20    | 1     | 19                | —       |         |         | —       |         |         | 20                         | 1                 | 20   | Spare                   |   |  |
| Spare                                 |  | 20    | 1     | 21                |         | —       |         |         | —       |         | 22                         | 1                 | 20   | Spare                   |   |  |
| Spare                                 |  | 20    | 1     | 23                |         |         | —       |         |         | —       | 24                         | 1                 | 20   | Spare                   |   |  |
| Space                                 |  |       |       | 25                | —       |         |         | —       |         |         | 26                         |                   |      | Space                   |   |  |
| Space                                 |  |       |       | 27                |         | —       |         |         | —       |         | 28                         |                   |      | Space                   |   |  |
| Space                                 |  |       |       | 29                |         |         | —       |         |         | —       | 30                         |                   |      | Space                   |   |  |
| Total Load per Phase per Side (VA)    |  |       |       |                   | 3343    | 1223    | 637     | 3107    | 1716    | 640     |                            |                   |      |                         |   |  |
| Total Load Phase A (VA)               |  | 6450  | VA    |                   |         |         |         |         |         |         | Total Connected Load       |                   |      | 30                      | A |  |
| Total Load Phase B (VA)               |  | 2939  | VA    |                   |         |         |         |         |         |         | Total Connected Load + 25% |                   |      | 37                      | A |  |
| Total Load Phase C (VA)               |  | 1277  | VA    |                   |         |         |         |         |         |         | Spare 25%                  |                   |      | 9                       | A |  |
| Total Connected Load (VA)             |  | 10666 | VA    |                   |         |         |         |         |         |         | Feeder Load                |                   |      | 46                      | A |  |

| LIGHTING PANEL LP-1                |      |       |        |                   |         |         |         |         |         |                            |       |                                   |                                   |
|------------------------------------|------|-------|--------|-------------------|---------|---------|---------|---------|---------|----------------------------|-------|-----------------------------------|-----------------------------------|
| Service: 120/208V, 3ø, 4W          |      |       |        | Enclosure: NEMA 1 |         |         |         |         |         |                            |       | Mounting: Surface                 |                                   |
| Main Breaker: 125A MCB             |      |       |        |                   |         |         |         |         |         |                            |       | Main Bus: Copper                  |                                   |
| Location: Belt Filter Press Room   |      |       |        |                   |         |         |         |         |         |                            |       | SCIC: 10 kAIC                     |                                   |
| Room Number/Description            | Amps | Poles | Ckt. # | Phase A           | Phase B | Phase C | Phase A | Phase B | Phase C | Ckt. #                     | Poles | Amps                              | Room Number/Description           |
| Space                              | —    | 1     | 42     |                   |         |         | 100     |         |         | 41                         |       |                                   |                                   |
| Space                              | —    | 1     | 40     |                   |         |         |         | 1667    |         | 39                         | 3     | 60                                | Subpanel                          |
| Space                              | —    | 1     | 38     |                   |         |         |         |         |         | 37                         |       |                                   |                                   |
| Space                              | —    | 1     | 36     |                   |         |         |         |         |         | 35                         | 1     | —                                 | Space                             |
| Space                              | —    | 1     | 34     |                   |         |         |         |         |         | 33                         | 1     | —                                 | Space                             |
| Space                              | —    | 1     | 32     |                   |         |         |         |         |         | 31                         | 1     | —                                 | Space                             |
| Space                              | —    | 1     | 30     |                   |         |         |         |         |         | 29                         | 1     | 20                                | Overhead Door Sludge Storage      |
| Sterling Make-Up Air Unit          | 20   | 2     | 28     |                   |         |         |         |         |         | 27                         | 1     | 20                                | Overhead Door Sludge Storage      |
|                                    |      |       | 26     |                   |         |         |         |         | 25      | 1                          | 20    | Lights In Sludge Storage Building |                                   |
| West Storage Building              | 60   | 2     | 24     |                   |         |         |         |         |         | 23                         | 2     | 30                                | Power Washer                      |
|                                    |      |       | 22     |                   |         |         |         |         | 21      |                            |       |                                   |                                   |
| Outlet in Office East Exit Light   | 20   | 1     | 20     |                   |         |         |         |         |         | 19                         | 2     | 60                                | Welding Outlet                    |
| GFCI Outlet By Belt Press          | 20   | 1     | 18     |                   |         |         |         |         |         | 17                         |       |                                   |                                   |
| Polymer Feed Pump                  | 20   | 1     | 16     |                   |         |         |         |         |         | 15                         | 1     | 20                                | Furnace Southwest                 |
| Make-Up Air Unit Exhaust Fan       | 20   | 1     | 14     |                   |         |         |         |         |         | 13                         | 1     | 20                                | Spare                             |
| East Overhead Door                 | 20   | 1     | 12     |                   |         |         |         |         |         | 11                         | 1     | 20                                | South Overhead Door               |
| Outside Lights                     | 20   | 1     | 10     |                   |         |         |         |         |         | 9                          | 1     | 20                                | Bath + Office Outlets + Lights    |
| North/East Furnace                 | 20   | 1     | 8      |                   |         |         |         |         |         | 7                          | 1     | 20                                | Office Furnace                    |
| Outside Auto Gate                  | 20   | 1     | 6      |                   |         |         |         |         |         | 5                          | 1     | 20                                | Outlet By Power Washer            |
| Lights Around Press                | 20   | 1     | 4      |                   |         |         |         |         |         | 3                          | 1     | 20                                | North Overhead Door               |
| Lights Around Press                | 20   | 1     | 2      |                   |         |         |         |         |         | 1                          | 1     | 20                                | North + South Inwall Exhaust Fans |
| Total Load per Phase per Side (VA) |      |       |        | 0                 | 0       | 0       | 100     | 1667    | 2777    |                            |       |                                   |                                   |
| Total Load Phase A (VA)            |      | 100   | VA     |                   |         |         |         |         |         | Total Connected Load       |       | 13                                | A                                 |
| Total Load Phase B (VA)            |      | 1667  | VA     |                   |         |         |         |         |         | Total Connected Load + 25% |       | 16                                | A                                 |
| Total Load Phase C (VA)            |      | 2777  | VA     |                   |         |         |         |         |         | Spare 25%                  |       | 4                                 | A                                 |
| Total Connected Load (VA)          |      | 4544  | VA     |                   |         |         |         |         |         | Feeder Load                |       | 20                                | A                                 |

SECTION 00 41 00

BID

LAKE GENEVA UTILITY COMMISSION  
LAKE GENEVA, WISCONSIN  
WASTEWATER TREATMENT PLANT–HAULED WASTE RECEIVING FACILITY  
CONTRACT 1-2022

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ARTICLE 1–BID RECIPIENT

1.01 Bids to be received until 2 P.M., local time, January 10, 2023.

1.02 Online electronic Bidding through QuestCDN.com is the only way the Bid will be accepted. To access the electronic Bid Form, download the Project Documents and click the online Bidding button at the top of the Advertisement.

1.03 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2–BIDDER'S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

2.01 Bid Acceptance Period

A. This Bid will remain subject to acceptance for 85 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of OWNER.

2.02 Instructions to Bidders

A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

2.03 In submitting this Bid, Bidder represents the following:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the addenda.

2.04 Bidder will sign and deliver the required number of counterparts of the Agreement with the bonds, insurance certificates, and other documents required by the Bidding Requirements within 15 days after the date of OWNER's Notice of Award.

## ARTICLE 3–BIDDER’S REPRESENTATIONS

3.01 Bidder’s Representations

A. In submitting this Bid, Bidder represents the following:

1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.

2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.

4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.

5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.

6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as CONTRACTOR; and (c) Bidder's (CONTRACTOR's) safety precautions and programs.

7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.

8. Bidder is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Bidding Documents.

9. Bidder has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to CONTRACTOR.

10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4–BIDDER'S CERTIFICATIONS

4.01 Bidder certifies the following:

A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.

B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.

C. Bidder has not solicited or induced any individual or entity to refrain from Bidding.

D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:

1. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the Bidding process.

2. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the Bidding process to the detriment of OWNER, (b) to establish Bid prices at artificial non-competitive levels, or (c) to deprive OWNER of the benefits of free and open competition.

3. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of OWNER, a purpose of which is to establish Bid prices at artificial, non-competitive levels.

4. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the Bidding process or affect the execution of the Contract.

ARTICLE 5-BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

The following abbreviations may be used in this Bid:

|       |   |                           |      |   |                           |
|-------|---|---------------------------|------|---|---------------------------|
| CIP   | - | Complete in Place         | LS   | - | Lump Sum                  |
| CY    | - | Cubic Yard                | LT   | - | Left                      |
| DI    | - | Ductile Iron              | MBF  | - | Thousand Board Feet       |
| DIA   | - | Diameter                  | MFOB | - | Thousand Freight-On-Board |
| EA    | - | Each                      | MH   | - | Manhole                   |
| EST   | - | Estimate(d)               | RCP  | - | Reinforced Concrete Pipe  |
| EXCL  | - | Excluding                 | RT   | - | Right                     |
| FT    | - | Feet                      | SF   | - | Square Foot               |
| GAL   | - | Gallon                    | STA  | - | Station                   |
| HERCP | - | Horizontal Elliptical RCP | SY   | - | Square Yard               |
| HRS   | - | Hours                     | T    | - | Ton                       |
| IN    | - | Inch                      | VLF  | - | Vertical Linear Foot      |
| INCL  | - | Including                 | W/   | - | With                      |
| LBS   | - | Pounds                    | W/O  | - | Without                   |
| LF    | - | Linear Foot               |      |   |                           |

**BIDDERS SHOULD NOT ADD ANY CONDITIONS OR QUALIFYING STATEMENTS TO THIS BID OR THE BID MAY BE DECLARED IRREGULAR AS NOT BEING RESPONSIVE TO THE INSTRUCTIONS TO BIDDERS.**

## BID

LAKE GENEVA UTILITY COMMISSION  
LAKE GENEVA, WISCONSIN  
WASTEWATER TREATMENT PLANT–HAULED WASTE RECEIVING FACILITY  
CONTRACT 1-2022

LUMP SUM BASE BID:

\_\_\_\_\_ Dollars \$ \_\_\_\_\_  
(Words) (Numbers)

See Section 01 29 00–Contract Considerations for discussion of Cash Allowances to include in the Bid.

Contract award will be made based on the Lump Sum Base Bid or Lump Sum Base Bid with any combination of Bid Alternatives selected. The price for all Base Bid Equipment items shall be included in the Lump Sum Base Bid. Bid Alternatives will be added or deducted from the Lump Sum Base Bid, if they are accepted, prior to Notice of Award being made.

OWNER reserves the right to accept or reject any Bid Alternatives or Equipment Alternatives to the Lump Sum Base Bid. Should OWNER wish to consider Bid Alternatives listed, Bidder may be required to provide additional information as listed in Articles 7.05 and 7.06 of the General Conditions prior to Notice of Award. Consideration of Equipment Alternatives of the selected Bidder will be made by OWNER within 60 days after the Effective Date of the Contract.

If a Bid Alternative is selected by OWNER, the awarded Contract price will include the selected Alternative(s).

## BID ALTERNATIVES

### BID ALTERNATIVE NO. 1:

CONTRACTOR shall include in the cost of the Bid Alternative ALL work associated with providing the scope listed below.

The price of \$\_\_\_\_\_ shall be added to the Contract Lump Sum Base Bid if OWNER elects to fund the project using the Clean Water Fund Program. Requirements associated with Bid Alternative 1 are identified throughout the instructions to bidders and the contract documents with a heavy line weight box, as demonstrated by this paragraph.

## EQUIPMENT ALTERNATIVES

LAKE GENEVA UTILITY COMMISSION  
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The name of the Base Bid equipment manufacturer which Bidder shall include in the Lump Sum Base Bid is listed for each equipment item. Where an alternative manufacturer is listed, Bidder shall include an add or deduct to the price of the equipment that Bidder included in the Lump Sum Base Bid. Where spaces are provided, Bidder may also bid other alternative manufacturers by writing in the alternative manufacturer's name. Equipment Alternative Bid prices shall include the entire cost of the Alternative, including cost for engineering changes to accommodate the Alternative, and additional work to be performed which is not shown on the Drawings, but which is required as a result of selection of the Alternative.

Whether or not an alternative manufacturer is offered to one or more of the Base Bid equipment manufacturers provided for in the Bid Form, Bidder shall write (in numbers) the price for providing the Base Bid equipment manufacturer, as included in the Lump Sum Base Bid.

When more than one Base Bid equipment manufacturer name is listed for an item, Bidder shall circle the name of the equipment manufacturer selected for the Lump Sum Base Bid and write in the price for the selected equipment.

## EQUIPMENT ALTERNATIVES

|    | Item                                                   | Equipment Base Bid<br>Manufacturer<br>Included in the<br>Lump Sum Base Bid<br>(Circle One) | Cost of Equipment<br>Included in the<br>Lump Sum Base Bid | Alternative<br>Manufacturer | Add to<br>Base Bid<br>for Alternative<br>Manufacturer | Deduct From<br>Base Bid<br>for Alternative<br>Manufacturer |
|----|--------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|-------------------------------------------------------|------------------------------------------------------------|
| A. | Actuators for Process Valves<br>(Section 40 05 57)     | AUMA<br><b>OR</b><br>Rotork<br><b>OR</b><br>Limitorque                                     | \$                                                        | _____<br>_____<br>_____     | (+)_____<br>(+)_____<br>(+)_____                      | (-)_____<br>(-)_____<br>(-)_____                           |
| B. | Sampler<br>(Section 46 09 00)                          | Teledyne ISCO<br><b>OR</b><br>Hach Company                                                 | \$                                                        | _____<br>_____<br>_____     | (+)_____<br>(+)_____<br>(+)_____                      | (-)_____<br>(-)_____<br>(-)_____                           |
| C. | Hauled Waste Receiving<br>System<br>(Section 46 21 83) | JWC Environmental<br><b>OR</b><br>Lakeside Equipment Co.                                   | \$                                                        | _____<br>_____              | (+)_____<br>(+)_____                                  | (-)_____<br>(-)_____                                       |

## BID

LAKE GENEVA UTILITY COMMISSION  
LAKE GENEVA, WISCONSIN  
WASTEWATER TREATMENT PLANT–HAULED WASTE RECEIVING FACILITY  
CONTRACT 1-2022

## CASH ALLOWANCES

The following Cash Allowances shall be included in the Lump Sum Base Bid. The Cash Allowances for non-Lump Sum items shall be equal to the product of the quantity included in the Lump Sum Base Bid and the Unit Price. The Cash Allowances will be adjusted in the event that estimated quantities to be included in the Lump Sum Base Bid are different from final measured quantities. A single Unit Price shall be bid for each item. Failure to include one or more of the following Unit Price items may result in rejection of the entire Bid as nonconforming. For items with a quantity of 1, the Cash Allowance shall be adjusted based on actual final costs.

| Item Number | Description                                                                 | Estimated Quantity Included in the Lump Sum Base Bid | Unit | Bid Unit Price | Total Bid Price Included in the Lump Sum Base Bid |
|-------------|-----------------------------------------------------------------------------|------------------------------------------------------|------|----------------|---------------------------------------------------|
| 1.          | Electrical Service<br>Section 26 21 00                                      | \$30,000                                             | LS   | \$             | \$                                                |
| 2.          | Unsuitable Foundation Material for Structures and Roads<br>Section 31 23 00 | 100                                                  | CY   | \$             | \$                                                |
| 3.          | Unsuitable Foundation Material for Utility Trenches<br>Section 31 23 00     | 25                                                   | CY   | \$             | \$                                                |
| 4.          | Rock Excavation for Structures and Roads<br>Section 31 26 16.26             | 10                                                   | CY   | \$             | \$                                                |
| 5.          | Rock Excavation for Utility Trenches<br>Section 31 26 16.26                 | 15                                                   | CY   | \$             | \$                                                |
| 6.          | Administration and Billing Software<br>Section 46 21 83                     | \$20,000                                             | LS   | \$             | \$                                                |

## AGENDA

### Working Meeting – City of Lake Geneva

#### Project ID's: 3170-09-00/70 STH 50 – Resurfacing from Forest St to Grand Geneva Way Walworth County

Wednesday, September 7<sup>th</sup>, 2022  
10:00 am – 12:00 pm

1. Discuss letter submitted to the Wisconsin Department of Transportation (Department) on March 30<sup>th</sup>, 2022 by the City of Lake Geneva (City), as well as the Department response memo sent August 2<sup>nd</sup>, 2022.
  - A. Decorative Signal Poles
    - I. The City and the Department both agree include a 35% increase in cost from standard signals as a placeholder in the SMFA.
    - II. *The Department is waiting for the City to provide an overview sheet of the locations in which they desire more decorative style signal poles (only downtown intersections, all intersections, etc.)*
  - B. Enhanced crossing at West Street
    - I. Installation of Rectangular Rapid Flash Beacons (RRFB) and enhanced crosswalk markings at this location are in agreement with current department policy.
      - a. However, due to lack of historic crash concerns, the cost of the RRFB will be the responsibility of Lake Geneva. The current estimate for 2 RRFBs comes out to \$12,000 (\$6000 per side).
    - II. *The Department is waiting for the City to confirm desire for inclusion.*
  - C. N-S crossing at Curtis Street
    - I. The City and the Department both agree to include this crossing in the project scope.
  - D. Pedestrian accommodations between Curtis Street and Edwards Drive/STH 120
    - I. The Department has reviewed this request for pedestrian accommodation on WIS 50 from Curtis to Edwards/WIS 120 and have come to the following determination:
      - a. Through the Departments internal review process, it has been determined that the Department is willing to pay \$134,000 towards the installation of sidewalk or path in this segment. This amount would apply to sidewalk/path regardless of which side of STH 50 it is installed on.
    - II. When reviewing the option for sidewalk on the north side of WIS 50 from Curtis to Edwards/WIS 120 the total cost for sidewalk installation in this segment comes out to \$167,000.
      - a. This cost includes:
        - i. 5' Concrete Sidewalk
        - ii. Required curb & gutter installation
        - iii. Storm Sewer
        - iv. Real Estate Acquisition
    - III. When reviewing the option for path on the north side of WIS 50 from Curtis to Edwards/WIS 120 the total cost for path installation in this segment comes out to \$206,000.
      - a. This cost includes:
        - i. 10' Asphalt Path
        - ii. Required curb & gutter installation
        - iii. Storm Sewer
        - iv. Real Estate Acquisition

- IV. When reviewing the option for sidewalk on the south side of WIS 50 from Curtis to East Dr the total cost for sidewalk installation in this segment comes out to \$321,000.
  - a. This cost includes:
    - i. Sidewalk
    - ii. Required curb & gutter installation
    - iii. Storm Sewer
    - iv. Retaining Wall
    - v. Real Estate Acquisition
- V. *The Department is waiting for the City to confirm desired type and location(s) for pedestrian accommodations based on the above outlined construction costs and Department contribution.*

E. Expansion of STH 50 between Curtis Street and Edwards Blvd/STH 120

- I. The City requested that the Department reconsider the Connecting Highway Agreement Section 1 (E) regarding expansion of the roadway between Curtis Street and Edwards Blvd. using data from a traffic analysis provided by the City.
- II. The Department reviewed this segment using both 2021 traffic counts taken by the Department and the City provided traffic data. Both data result in the same conclusion that an expansion is not justified at 100% State cost based on our current policy of Performance-Based Practical Design, as outlined in our Facilities Development Manual Chapter 11-1-5.
  - a. However, an expansion can be included in the project scope if the City agrees to pay the construction cost difference to increase the scope from the resurfacing to a roadway expansion.
- III. When reviewing WIS 50 between STH 120/Edwards and Cook St the Department did determine that the on-street parking configuration between Center St & Cook St is likely contributing to overall congestion due to insufficient turn lane lengths. Removal of parking in these areas is a low-cost alternative that would improve LOS throughout the corridor and could be included in this project at City request.
- IV. *The Department is waiting for the City to confirm what their desired next steps are.*

F. Reconfiguration of north leg of Edwards Blvd/STH 120 Intersection

- I. The Department is unable to include a conversion of the eastern SB left turn lane to a northbound left turn lane with raised median as requested by the City due to negative impacts to overall intersection safety.
- II. The Department has developed a design with modifications to pavement marking only that would provide a northbound left turn lane into the third entrance at 350 N. Edwards Blvd. without negatively impacting intersection safety. See attached intersection design.
- III. *The Department is waiting for the City to confirm what their desired next steps are.*

G. N-S crossing on the east leg of Edwards Blvd/STH 120 Intersection

- I. The Department has reviewed this crossing location and determined that a crossing in that location would be unsafe due to the crossing distance and skew between the porkchop islands in the northeast and southeast quadrants.
  - a. However, the Department has justified the inclusion of an E-W crossing on the south leg of WIS 120 and sidewalk running south to the first driveway. See attached intersection design.

2. Discuss possible pavement replacement between Maxwell Street and Wells Street (omitting Warren Street to Cook Street/Wrigley Drive reconstructed by the City in 2018)

- A. City questions or concerns?

3. Discuss status of utility work request

- A. Per Josh Gajewski, topic of discussion at 6/20/2022 Board of Commissioners meeting, but no updates received

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## Memo to the City of Lake Geneva

**To:** Public Works Committee **Date:** February 11, 2020

**From:** Greg Governatori, P.E.

**CC:** Dave Nord – City Administrator  
Tom Earle – Director of Public Works

**Subject:** Alternatives for YMCA Path replacement

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### BACKGROUND AND REQUEST:

At the request of the Public Works Committee, we have completed a brief alternatives analysis for possible routes to replace the existing multi-use path behind the YMCA. The existing path connects Darwin Street to the back of the YMCA and then continues on city property to Curtis Street. The existing 1500' segment of path is in extremely poor condition and will require extensive improvements to meet current multi-use path standards. This section requires pavement and base removal, excavation, new base structure, culvert and drainage improvements, ditching, retaining walls, and fencing. The replacement of this section is estimated at \$275,000.00

The attached exhibit shows possible alternatives for providing a new pedestrian path to replace the connection from Darwin to Curtis that is behind the YMCA. As part of this analysis we have also considered pedestrian traffic as well as the bike path connectivity for the segment.

All right of ways are 66' except for Cass street which is only 50'. All roadways within the area are 28' feet wide from back of curb to back of curb (Typical City minor roadway section). Curtis Street and Darwin streets have approximately 19' of available right-of-way from the back of curb to the property line which would be adequate for the construction of a 10-foot multi-use path

Curtis Street, Darwin Street, Cass Street, East Street and West street are all possible routes for either a new off-street multi-use path, or on street bike lane markings. Sidewalk currently exists on various sections of East, West and Darwin streets as shown on the attached exhibit.

Due to this restriction an off-street multi use path may be considered as it will provide both pedestrian and bicycle accommodations. A alternative would be to provide a sidewalk with onsite bike lane striping.

Estimated costs to construct 2300 feet of 10-Foot Asphalt Multi-Use path (60/sy) = \$153,000.00

Estimated cost to install new 5' concrete sidewalk (one side) and provide on street bike lane markings (12/SF) = 158,000

(Cost estimates include pedestrian crossings, pavement markings, ADA upgrades, and engineering)  
Cost do not include removal or restoration of old YMCA path section – Estimated at \$40,000 to remove asphalt, walls, etc, place topsoil, seed and matting (1670 Square yards)

