



Virtual Meeting
Mequon, WI 53092
Phone: 262-236-2904
Fax: 262-242-9655

www.ci.mequon.wi.us

Department of Community Development
Taped and Televised

PLANNING COMMISSION
Regular Meeting
Monday, November 23, 2020
6:00 PM
Virtual Meeting

AGENDA

ELECTRONIC MEETING NOTICE: Pursuant to the current recommendation of the CDC limiting the size of public gatherings and the various federal and state orders implementing that recommendation, and to help protect our community from the Coronavirus (COVID-19) pandemic, this meeting will be held virtually through the GoToMeeting platform with each member accessing the meeting remotely. Citizens may join the meeting online or by phone. Please go to <https://global.gotomeeting.com/join/116424117> to join the meeting online or call into the meeting by dialing 1.877.309.2073 and enter access code 116-424-117.

WRITTEN PUBLIC COMMENTS may be made in writing in advance of the meeting. Written comments should be directed to the Department of Community Development at least 2 hours prior to the meeting by email at DCD1@ci.mequon.wi.us addressed to the intended committee. Written public comment may also be deposited in the drop box at City Hall on 11333 N. Cedarburg Road, Mequon at least 2 hours prior to the meeting. Comments received timely will be forwarded to all members of the body for their consideration.

VERBAL PUBLIC COMMENTS will be accepted only from members of the public who register in advance. Registration shall be made by sending an email to Planner Pa Phouala Vang at ppvjang@ci.mequon.wi.us or by leaving a message at 262.236.2904 no later than 2 hours prior to the meeting.

1) Call to Order, Roll Call

- a) Approval of Minutes from October 26, 2020

2) Public Hearing

- a) Terrence & Gina Wright for Korner-Q's. The applicant is seeking conditional use grant and sign waiver approval to allow for a projecting sign for a proposed 2,344 sq. ft. eatery bar and grill for the property located at 10631 W. Freistadt Road (Korner-Q's).

3) Regular Business

- a) Mequon Medical. The applicant is seeking building and site plan and specimen tree removal approval for a 29,500 sq. ft. +/- outpatient medical clinic for the property located at the northwest corner of Highland Road and Port Washington Road.
- b) Mequon I, LLC/VH Mequon II, LLC. The applicant is seeking final plat and street tree approval for a 14-lot single-family subdivision for the property located at 10565 N. Wauwatosa Road (The Enclave II).

CANCELLED

4) Announcements

The next meeting is Monday, December 14, 2020 at 6:00 p.m.

5) Adjourn

Dated: November 20, 2020

/s/ John Wirth, Chair

Notice is hereby given that a quorum of other governmental bodies may be present at this meeting to present, discuss and/or gather information about a subject over which they have decision-making responsibility, although they will not take formal action thereto at this meeting.

Persons with disabilities requiring accommodations for attendance at this meeting should contact the City Clerk's Office at 262-236-2914, twenty-four (24) hours in advance of the meeting.

Any questions regarding this agenda may be directed to the Department of Community Development's Office at 262-236-2904, Monday through Friday, 8:00 AM – 4:30 PM



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PLANNING COMMISSION
Regular Meeting
Monday, October 26, 2020
6:00 PM
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Minutes

1) Call to Order, Roll Call

Present:

Chair John Wirth
 Commissioner Greg Bach
 Commissioner Martin Choren
 Commissioner Stephanie Hawley
 Commissioner Rick Lemke
 Commissioner Rebecca Schaefer
 Commissioner James Schaefer
 Commissioner John Stoker
 Alderman Andrew Nerbun - **Absent**
 Alternate Dan Gentges - **Absent**

Mayor Wirth called the meeting to order at 6:00 p.m. and gave reminders about the procedures for the virtual call.

a) Approval of Minutes

Action

Commissioner Stoker made a motion to approve the September 21, 2020 minutes.
 Commissioner Becky Schaefer seconded the motion.
A voice vote was taken; vote passed (8-0)

RESULT:	APPROVED BY VOICE ACCLAMATION [UNANIMOUS]
MOVER:	John Stoker, Commissioner
SECONDER:	Rebecca Schaefer, Commissioner
AYES:	Wirth, Bach, Choren, Hawley, Lemke, J. Schaefer, R. Schaefer, Stoker
ABSENT:	Nerbun, Gentges

Attachment: DRAFT PC_10.26.2020 (5713 : Minutes from October 26, 2020)

2) Public Hearing

- a) North Shore Bank. The applicant is seeking conditional use grant and building and site plan approval for a proposed 3,250 sq. ft. bank building with rear drive-through for the property located at 11319 N. Port Washington Road.

Action

Commissioner Stoker made a motion to open a public hearing.

Commissioner Choren seconded the motion.

A voice vote was taken; vote passed (8-0)

No public comment.

Action

Commissioner Stoker made a motion to close the public hearing.

Commissioner Becky Schaefer seconded the motion.

A voice vote was taken; vote passed (8-0)

Asst. Dir. Zader stated that this request is for conditional use grant (CUG) and building and site plan approvals for a 2,260 sq. ft. financial institutional located at 11319 N. Port Washington Road. The applicant was in front of the Commission last month for a consultation. Financial institutions are a permitted use in the zoning district. A CUG is required because the applicant is requesting a few waivers; which is allowed per the CUG because the lot is substandard to lot size at only .78-acres.

One waiver is for the front yard setback from Port Washington Road and the second waiver is for the parking lot offset to the west. Asst. Dir. Zader showed the site plan and explained that it is similar to what was shown at the consultation with the 40-foot front set back lining up with the building immediately to the south. Staff discussed the suggestion with the applicant to reduce the encroachment on the rear setback by reducing the parking lot stall size to 9 feet instead of 10 feet. The site plan was not updated yet, but the applicant did update the lighting and landscape plans which makes it only about a 1 to 2-foot deduction, which staff supports.

The building plan is similar to what was shown at the consultation with some changes based on the feedback from the Commission. Changes include; the dual roof slope replaced with a single slope towards the back and the facia is also thinner. Staff supports these two changes to design. The south windows are opaque which is not typically allowed; but they are acceptable here due to the limitations of the floorplan and these windows screen the mechanical room and the bathrooms and they do not face Port Washington Road. Examples were shown of how the building will look with shading in the front windows and it is supported by staff. The applicant made some changes after receiving the landscape consultant's report and submitted a revised landscaping plan. Staff has requested a substitution to the Honey Locust along Port Washington Road as there are power lines there and staff is concerned that the trees will get too big. Some shrubs or Evergreens are also requested between the trees along Port Washington Road to help buffer the entrance and the parking lot. Asst. Dir. Zader showed an example of the trees and shrubs in front of Kohler Credit Union and stated that a pattern already exists that can be followed. The lighting plan does not dictate whether the shown parking lot meets the 2-foot

candle standards. There is a little bit of light trespass at the back of the site that will need to be tweaked. Full cut off designation of the lot fixtures will need to be supplied for staff approval. Staff recommends approval of the CUG according to the conditions in the staff report.

It was noted that the west setback waiver was not included in the conditions in the staff report; staff stated that it will be included.

There was positive feedback from the Commission regarding the architectural changes to the upper story. There was discussion regarding the various materials that will be used.

Action

Commissioner Stoker made a motion to approve the CUG and the site plan subject to staff conditions and with the amendment to include the condition of the 5-foot setback waiver on the west side.

Commissioner Jim Schaefer seconded the motion.

A voice vote was taken; vote passed (8-0)

RESULT:	APPROVED WITH CONDITIONS [8 TO 0]
MOVER:	James Schaefer, John Stoker
AYES:	Wirth, Bach, Choren, Hawley, Lemke, J. Schaefer, R. Schaefer, Stoker
ABSENT:	Nerbun, Gentges

3) Consent

- a) Residence at Foxtown. The applicant is seeking street tree and street lighting approval for a proposed 23 single-family home development for the property located east of 11050 N. Weston Drive. REMOVE FROM TABLE.

Action

Commissioner Hawley made a motion to remove the Residence at Foxtown item (3a) from the table.

Commissioner Lemke seconded the motion.

A voice vote was taken; vote passed (8-0)

Commissioner Stoker stated that he will need to recuse himself from the Farmdale Estates item (3b)

Action

Commissioner Stoker made a motion to approve items 3a and 3c.

Commissioner Jim Schaefer seconded the motion.

A voice vote was taken; vote passed (8-0)

RESULT: **APPROVED [8 TO 0]**
MOVER: Stephanie Hawley, Alternate
SECONDER: Rick Lemke, Commissioner
AYES: Wirth, Bach, Choren, Hawley, Lemke, J. Schaefer, R. Schaefer, Stoker
ABSENT: Nerbun, Gentges

- b) Farmdale Estates. The applicant is seeking final plat approval for a six-lot subdivision for the property located at the northwest corner of Mequon and Farmdale Roads.

Action

Commissioner Choren made a motion to approve item 3b.

Commissioner Lemke seconded the motion.

A voice vote was taken; vote passed (7-0) (Stoker recused)

RESULT: **APPROVED [7 TO 0]**
MOVER: Martin Choren, Commissioner
SECONDER: Rick Lemke, Commissioner
AYES: Wirth, Bach, Choren, Hawley, Lemke, J. Schaefer, R. Schaefer
ABSENT: Nerbun, Gentges
RECUSED: Stoker

- c) Innovative Signs for White Rabbit Bar & Grill. The applicant is seeking sign waiver approval to allow for a monument sign to be located within the right-of-way for the property located at 14015 N. Cedarburg Road.

Action

Commissioner Stoker made a motion to approve items 3a and 3c.

Commissioner Jim Schaefer seconded the motion.

A voice vote was taken; vote passed (8-0)

RESULT: **APPROVED [8 TO 0]**
MOVER: Rebecca Schaefer, John Stoker
SECONDER: James Schaefer, Commissioner
AYES: Wirth, Bach, Choren, Hawley, Lemke, Schaefer, Schaefer, Stoker
ABSENT: Nerbun, Gentges

4) Policy

- 1) The City of Mequon is seeking a recommendation by the Planning Commission to the Water Utility Commission to allow for the opportunity extend public water main within the Ulao Creek neighborhood (generally the area bound by I-43 to east, Highland Road to south, Oriole Lane /Ulao Creek to west and Pioneer Road to north).

Dir. Lundeen stated that this is part of a recommendation from the Policy Subcommittee. After discussing the potential of public utility extensions, it became clear that land uses being considered could not support the cost of public sanitary sewer. An unfortunate consequence of the Mequon Water Utility is that it is currently restricted from only extending within the sewer service area. This restriction was set at the time of inception. The process to make an amendment is to petition the Public Service Commission to change the boundary to include this neighborhood. If it is recommended tonight, it will be in front of the Water Utility Commission tomorrow night.

Action

Commissioner Stoker made a motion to approve the recommendation to the Water Utility. Commissioner Lemke seconded the motion.
A roll call vote was taken; vote passed (8-0)

RESULT:	APPROVED [8 TO 0]
MOVER:	John Stoker, Commissioner
SECONDER:	Rick Lemke, Commissioner
AYES:	Wirth, Bach, Choren, Hawley, Lemke, J. Schaefer, R. Schaefer, Stoker
ABSENT:	Nerbun, Gentges

- 2) **ORDINANCE 2020-1583** - An Ordinance Amending Chapters 34 and 50 of the Mequon Municipal Code Related to the Regulation of Holding Tanks.

Dir. Lundeen stated that the changes recommended are due to the Ozaukee County regulating the private wastewater systems permitting. The City had a restriction against the installation of holding tanks except in cases of failed systems when an alternate private system could not be installed. This change is to clean up the language in two sections relating to this issue. While going through this process, staff also wants to declare the failed system in sanitary sewer systems to be declared a health nuisance, so that they city could potentially issue citations as well. Previously the city had to wait for the county as they had jurisdiction over the permitting system.

Dir. Lundeen added that an additional change desired by December 31st is the elimination of the bond requirement for holding tanks that is eliminated as part of the 2020-2021 fee schedule; so the ordinance needs to be changed and through the approval process and adopted by the end of the year to match the fee schedule change that will be effective January 1, 2021. This is much less impactful than the other two language changes.

The Mayor suggested that the items be separated to be voted on as the fee schedule issue and the enforcement issue are more straight forward and the other item may necessitate a more thorough discussion and is not urgent.

There was some discussion among the Commission and agreement to separate the issues.

Dir. Lundeen suggested that sections 1 & 4 could be removed from the ordinance to address the bond and the issue of a public health nuisance. These sections could then be discussed more thoroughly at a future meeting.

Action

Commissioner Stoker made a motion to remove sections 1 and 4 and to recommend the ordinance as such to the Common Council. Items 1 & 4 will be discussed at a later meeting.

Commissioner Bach seconded the motion.

A voice vote was taken; vote passed (8-0)

RESULT:	Approved as Amended by Roll Call Vote {Unanimous}
MOVED BY;	Commissioner Stoker
SECONDED:	Commissioner Bach
AYES:	Wirth, Parrish, Bach, Choren, Lemke, Schaefer, Schaefer, Stoker
ABSTAIN:	Hawley
ABSENT:	Nerbun, Gentges

5) Announcements

The next meeting is Monday, November 17, 2020 at 6:00 p.m.

6) Adjourn

Action

Commissioner Stoker made a motion to adjourn the meeting.

Commissioner Becky Shaefer seconded the motion.

A voice vote was taken, vote passed (8-0)

The meeting adjourned at 6:40 p.m.

Respectfully Submitted,

Jac Zader

TO: Planning Commission
FROM: PA PHOUALA VANG, PLANNER
DATE: November 23, 2020
SUBJECT: Terrence & Gina Wright for Korner-Q's. The applicant is seeking conditional use grant and sign waiver approval to allow for a projecting sign for a proposed 2,344 sq. ft. eatery bar and grill for the property located at 10631 W. Freistadt Road (Korner-Q's).

Applicant:	Terrence & Gina Wright
Status of Applicant:	Agent for Korner-Q's
Requested:	Conditional Use Grant Sign Waiver
Proposed Use:	Restaurant
Existing Zoning:	B-1 (Neighborhood Business)
Land Use Plan:	Neighborhood Commercial
Lot size:	.48 acres
Location:	10631 W. Freistadt Road
Tax Key:	#14-020-06-004.00
District:	#3

Background:

The applicant requests a conditional use grant for a 2,344 square foot restaurant. The building has a tavern on the first floor and an apartment on the second floor. The current tenant, Pig Skin Inn, received conditional use grant approval for a tavern with food service in 2006. Conditional use grants expire if the approved use is discontinued for a period of 12 months. Although the current tenant continues to operate the building as a bar, the restaurant portion has been discontinued for over a year and is therefore null and expired. Korner-Q's is proposing an eatery bar and grill which will offer counter service and serve a full menu including barbeque. The parcel is zoned B-1 which requires conditional use grant approval for sit down restaurants. The applicant is also requesting sign waiver approval to allow for a projecting sign.

According to Section 3.05(1)(b) of the Zoning Code, the following findings shall be considered when analyzing a conditional use grant application:

1. The proposed use should not endanger the public health, safety or general welfare of the city and the immediate neighborhood.

The only change to the site plan is the addition of a 6-foot-wide by 13-foot-long portable grill/smoker. The applicant is proposing to place the smoker southeast of the building near the rear entrance. The Fire Department is reviewing the smoker in compliance with fire codes and has not provided a recommendation on the location at this time. Staff supports the placement of the smoker on site in a location that meets the following:

- All fire and building codes

- Not visible from the street
- Code-compliant screening required, if possible, per staff approval
- Does not take up a parking space
- Meets required setback and offsets

The site plan shows a total of 21 parking spaces. Based on the zoning code, the parking required for the site is 27 stalls based on the total square footage of the restaurant, the number of employees and the second level apartment unit. The applicant indicated that there will be a total of two employees. The total square footage used to calculate the parking included the entire first level and kitchen area while the bar/dining room areas only total 1,136 square feet. Even though the parking on site does not meet the code requirement based on the gross square footage, staff believes the 21 parking spaces on site is sufficient when taking into consideration the square footage of the areas meant for patrons (1,136 square feet) which would result in a total parking requirement of 15 stalls for the site. The Planning Commission approved the Conditional Use Grant for Pig Skin Inn with the current number of stalls. Based upon a recent site inspection, staff noticed that the parking lot striping is faded and does not reflect the site plan that has been submitted. A conditional of approval that the parking lot be striped to meet the site plan is required.

2. The proposed use should not injure the value of adjoining or abutting property.

Staff believes the proposed restaurant will continue to stimulate the economic viability of the area and the city in general. The proposed hours of operation are 11:00 A.M. to 10:00 P.M. with hours until 2:00 AM on Friday and Saturday. The proposed hours of operation are consistent with the approved hours for the current tenant. The Planning Commission previously approved hours from 11:00 AM – 2:00 AM for Sunday through Friday and from 11:00 AM – 2:30 AM on Saturday for Pig Skin Inn.

3. The proposed use shall be harmonious or compatibility with the area in which it is located.

The subject site is located in the B-1 (Neighborhood Business) district. Restaurants are conditional uses in the B-1 district. Adjacent zoning includes B-1, IPS, R1-B and R-3. The area has a mix of uses including restaurants (The Landmark), commercial (Boehlke Hardware & Plumbing, Freistadt Automotive), single-family residential and institutional (Trinity Lutheran Church). Planning staff believes that the proposal should be harmonious with the surrounding uses and is compatible with this mixed-use area.

Sign Waiver:

The applicant is also requesting sign waiver approval for a projecting sign which is prohibited by the sign code. The proposed 12.5 square foot dibond sign will be installed on a black steel bracket and chain. Although the property has an existing projecting sign, staff did not find any records of approval for the sign. Upon a recent site inspection, staff noticed that other commercial uses in this area also have projecting signs.

The applicant indicated that they are intending to maintain the character of the building and surrounding area. Per the sign code, the building would be permitted two wall signs since the building faces two public streets. The applicant believes that patrons would not see wall signs until they pass the building. The applicant would forgo the two permitted wall signs in order to erect the projecting sign, which they believe provides more visibility at this corner. The corner

building is also located immediately adjacent to the right-of-way with a reduced setback so the property does not have an opportunity to install a monument sign.

One purpose of the sign code is to discourage visual competition in signage and ensure that signs aid orientation and adequately identify uses. Staff believes that the projecting sign meets these objectives. It reduces the number of signs that the building is otherwise allowed by code (two wall signs and one monument sign). In addition, since the building is situated so close to the intersection, staff believes the projecting sign would increase visibility for traffic at the intersection compared to two walls signs. Staff recommends the waiver since there is a site-specific hardship that impacts the visibility. Staff also believes the projecting sign upholds the purpose of the sign code and fits the character of this unique area. In support of the projecting sign and to avoid visual clutter, staff recommends a condition of approval that no wall signs shall be permitted for the property so long as the projecting wall sign is in place.

Staff Recommendation:

Planning staff recommends approval of the conditional use grant and sign waiver based on the following conditions:

1. Staff review and approval of final plans prior to issuance of permits. The applicant shall submit such plan within 60 days of Planning Commission action or the required plan(s) shall be submitted to Planning Commission for additional review and action and subject to all necessary fees.
2. The applicant shall restripe the parking lot in accordance with the approved site plan.
3. Staff supports the placement of the smoker in a location that meets all the following: all fire and building codes, not visible from the street, code-compliant screening, if possible (per staff approval), does not take up a parking space and meets all required setback and offsets.
4. All rooftop mechanicals shall be screened from view.
5. Submittal of sign permit to be reviewed and approved by staff.
6. The sign shall comply with all other sign code requirements.
7. No wall signs shall be permitted for the property so long as the projecting sign remains installed.

Attachments:

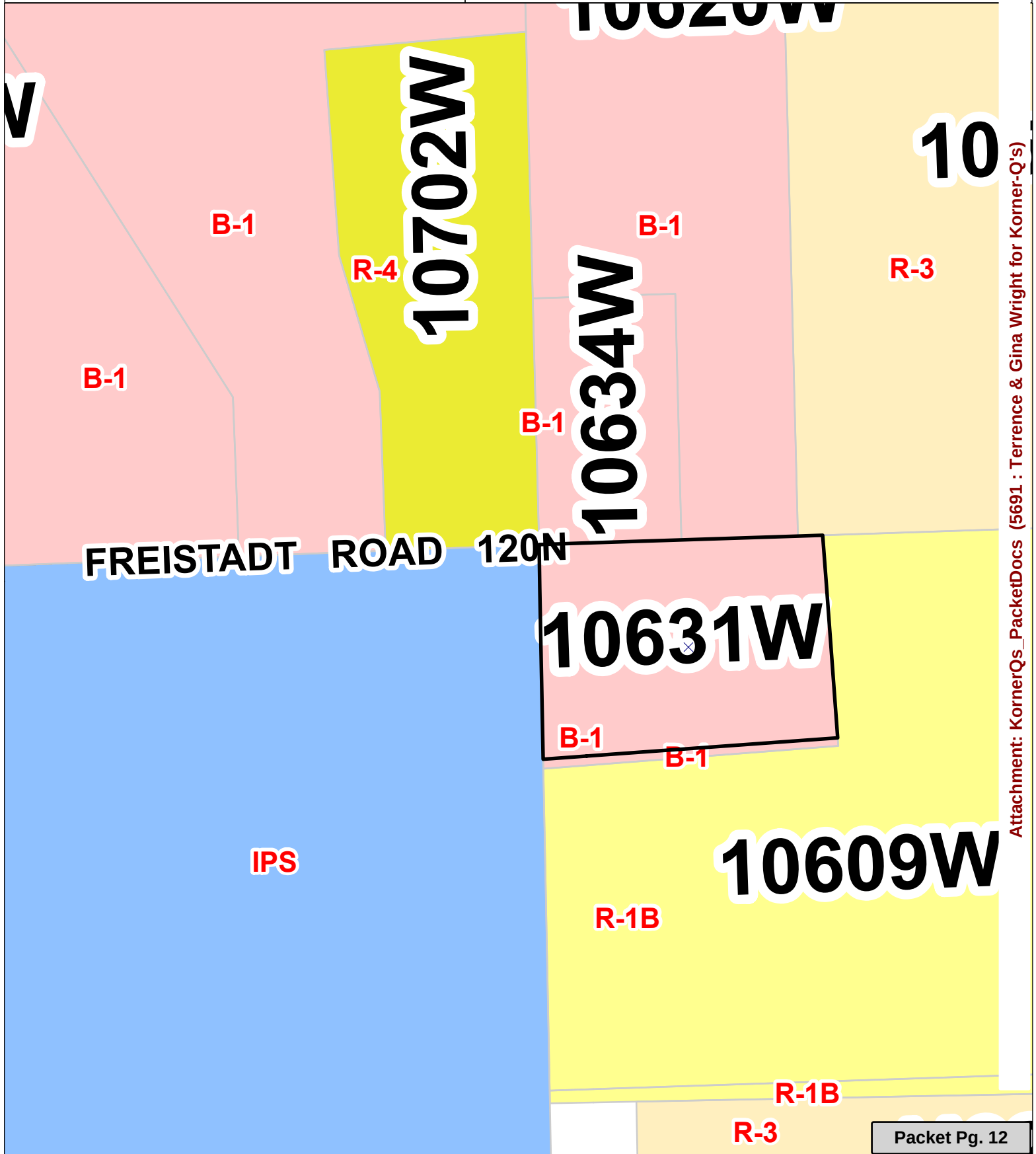
KornerQs_PacketDocs (PDF)

Korner-Q's

AC Arrival Corridor
A-1 Agricultural Preserve
A-2 General Agricultural
B-1 Neighborhood Business
B-2 Community Business
B-3 Office & Service Business
B-4 Business Park
B-5 Light Industrial
B-6 Rural Industrial
B-7 Rural Business
C-1 Shoreland/Wetland Conservancy
C-2 General Conservancy
CGO Central Growth Overlay
FFO Flood Fringe Overlay
FW Floodway
IPS Institutional & Public Service

LTD Limited Use
OA Agricultural Overlay
PUD Planned Unit Development Overlay
P-1 Park & Recreation
R-1 Single-Family Residential (5 Ac. Min.)
R-1B Single-Family Residential (2.5 Ac. Min.)
R-2 Single-Family Residential (2.0 Ac. Min.)
R-2B Single-Family Residential (1.5 Ac. Min.)
R-3 Single-Family Residential (1.0 Ac. Min.)
R-4 Single-Family Residential (3/4 Ac. Min.)
R-5 Single-Family Residential (1/2 Ac. Min.)
R-6 Single-Family Residential (4 du/Ac)
RM Multi-Family Residential
TC Town Center
TDR Transfer of Development Rights

2.a.a



Attachment: KornerQs_PacketDocs (5691 : Terrence & Gina Wright for Korner-Q's)

**City of Mequon – Community Development & Planning
Business Narrative**

Presented By:**Owner/Operators:** Terrence and Gina Wright**Business Name:** Korner-Q's, LLC

Conditional Use Grant Petition

Property Location: 10631 W. Freistadt Road, Mequon, WI 53097**Current Owners/Business Name:** Scott and Lisa Forbes, Pigskin Inn

Currently, the Pigskin Inn operates as a bar. Korner-Q's is requesting approval for conditional use as a restaurant bar. Specifically, operational use of the already existing kitchen. Additionally, utilization of a mobile barbecue smoker outside and stored off-site (see attached floor and site plans).

Korner-Q's is a registered limited-liability corporation (LLC). There are two founders and co-owners with equal shares Mr. Terrence Wright and Mrs. Gina Wright.

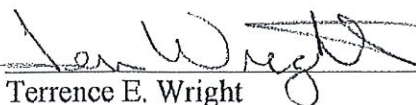
Upon approval, Korner-Q's will begin serving community locals authentic cookery and tasteful spirits, moderately priced, engaging personality and colloquy satisfying all taste buds at the table or on-the-go. Defined as an eatery bar & grill – quick-casual style dining with the option of carry-out via catering service.

Korner-Q's owners will maintain daily operations. Immediate hours of operation, 1Q21 will be Monday and Wednesday closed, Tuesday 5PM-10PM, Thursday 4PM-Midnight, Friday 4PM-2:00AM, Saturday 11AM-2:00AM, and Sunday 11AM-8:00PM. 2Q21 will remain the same. Beginning 3Q21 hours of operation will expand including Tuesday and Wednesday 4PM-Midnight. Food sales are projected to start 3Q21, hours of operation to be determined and service will be specific to dine in or catering services. 4Q21 food sales will vary based on supply and demand of customers.

Korner-Q's menu will consist of pork, beef, and chicken sandwiches, our namesake Korner-Q's barbecue, fish & quality specialty platters amongst other exciting specials. There will also be a variety of appetizers and desserts. There will be a Dinner and Late-Night menu. The service style will be counter service where the guest will order from the counter and the food will be delivered to their table accommodating a full bar and dining area.

In order to secure and serve the City of Mequon locals Korner-Q's will maintain its bar atmosphere, committed to promoting a 'Cheers' persona "where everybody knows your name" feeling a sense of warmth and comfort from start to finish. Continuously striving to be a premier family-friendly establishment with attentive service and an appealing selection of cookery and spirits. Setting a new standard and serving all stakeholders with honesty, integrity and selflessness quality and value being the most trusted restaurant bar service provider.

Requestor Signatures

 10/19/20
Terrence E. Wright

 10/19/20
Gina A. Wright

Attachment: KornerQs_PacketDocs (5691 : Terrence & Gina Wright for Korner-Q's)

**City of Mequon – Community Development & Planning
Outside Cooking Operation (OCO)**

Presented By:

Owner/Operators: Terrence and Gina Wright

Business Name: Korner-Q's, LLC

Property Location: 10631 W. Freistadt Road, Mequon, WI 53097

Utilization of a portable barbecue grill/smoker outside on premises and stored off-site.

Manufacturer: Heartland Cookers, LLC. Size: 6' W X 13" L



Grill location is referenced on the attached site plan with this symbol *.

Noting the rationale of the following criteria:

- Grill will be on premises of Korner-Q's establishment and continuously supervised by the Owner/Operators when the grill is in use. During use it will be roped off from pedestrian traffic.
- Grill has a cooking surface made of stainless steel, meeting sanitation requirements for equipment in a food establishment and will be stationed on an asphalt foundation.
- Grill has a lock protected heated storage cabinet for food.
- Grill will be utilized at least 10 feet way from any combustible materials and within 50 feet of the licensed establishment.
- Grill is stored off-site when not in operation.

- Raw meat, poultry, and fish are prepared in a pre-portioned or ready-to-cook form inside the food establishment and will be handled indirectly with utensils when using the outdoor grill. Food prepared on the outdoor grill is processed inside the food establishment.

Requestor Signatures


Terrence E. Wright
Gina A. Wright

**City of Mequon – Community Development & Planning
Sign Permit Narrative**

Presented By:**Owner/Operators:** Terrence and Gina Wright**Business Name:** Korner-Q's, LLC (Eatery Bar & Grill)

Sign Permit Grant Petition

Property Location: 10631 W. Freistadt Road, Mequon, WI 53097**Current Owners/Business Name:** Scott and Lisa Forbes, Pigskin Inn

We are seeking approval to continue using a projecting business sign at the existing property location. The new projecting sign is eye-catching and will increase visibility for motorists and pedestrians passing by the establishment. Additionally, it will strengthen Korner-Q's new brand to the City of Mequon and maintain the traditional curbside appeal guiding customers from two directions: Freistadt and Granville Rd.

Our purpose and goal are to maintain the buildings historical external figure which contributes to the history of the building, surroundings and services provided to the local community for over twenty years. The signage will enhance and be compatible with the building's current architecture. Preserving the local community's character is vital to the success of our new business and we will always respect and uphold the City of Mequon's values and expectations of high standards.

The double-sided sign is well-constructed made of "Dibond" a plastic that is lightweight and rigid consisting of a flexible polyethylene core covered with a thin aluminum composite sheeting on each side and is finished with a high-quality lacquer. The decoration is vinyl with black steel painted brackets and chains. The materials are of high quality and would therefore not degrade the local environment in appearance or value presenting a brand new clean and modern look. The new sign will not only contribute to the local community history but brings conformity with good taste and good design, in general, contributing to the image of Mequon as a place of beauty, spaciousness, balance, taste and high quality through its subtle color scheme of strong orange with white and black accents.

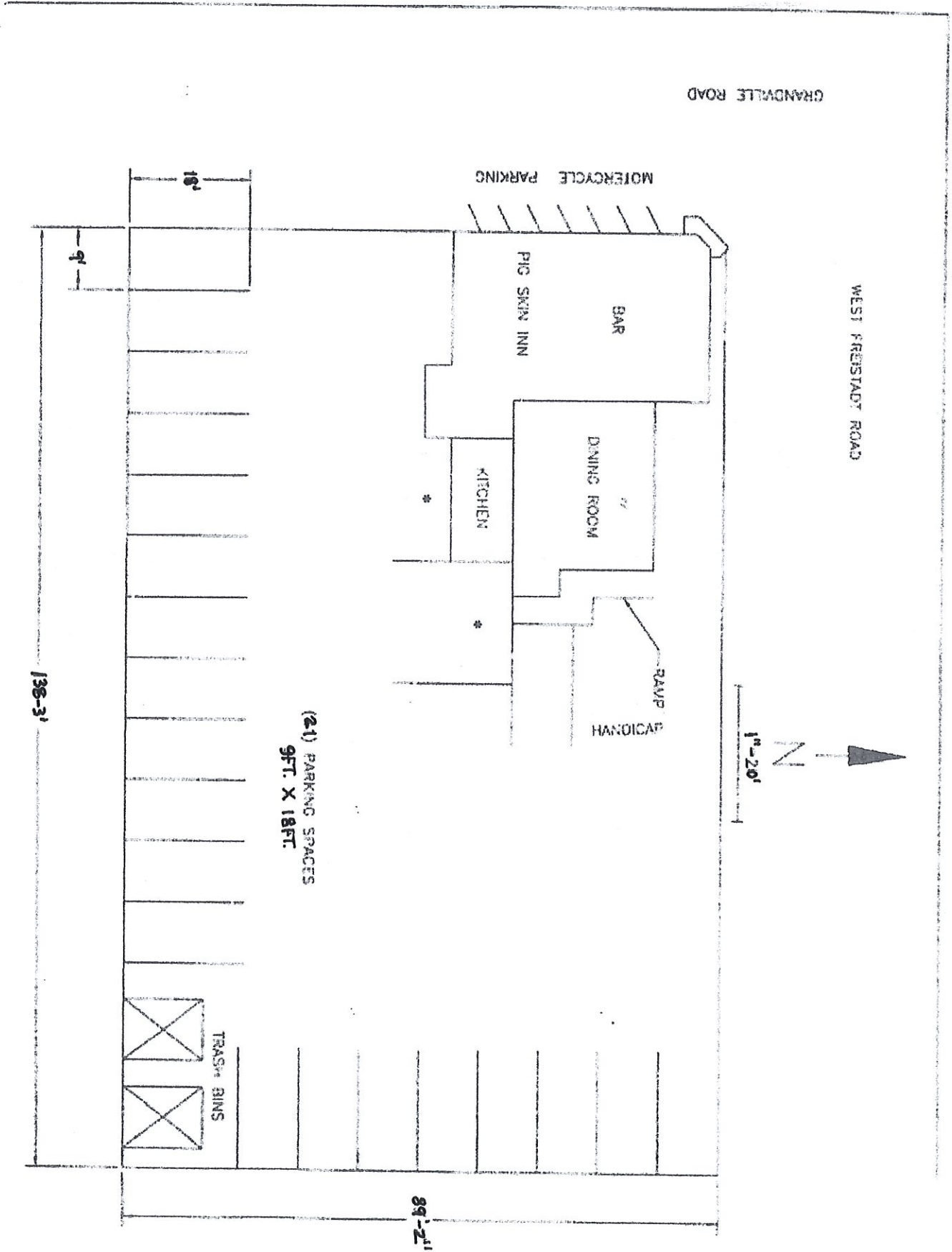
See attached sign permit application and layout from The Sign Group, work order number 1406.

Requestor Signatures

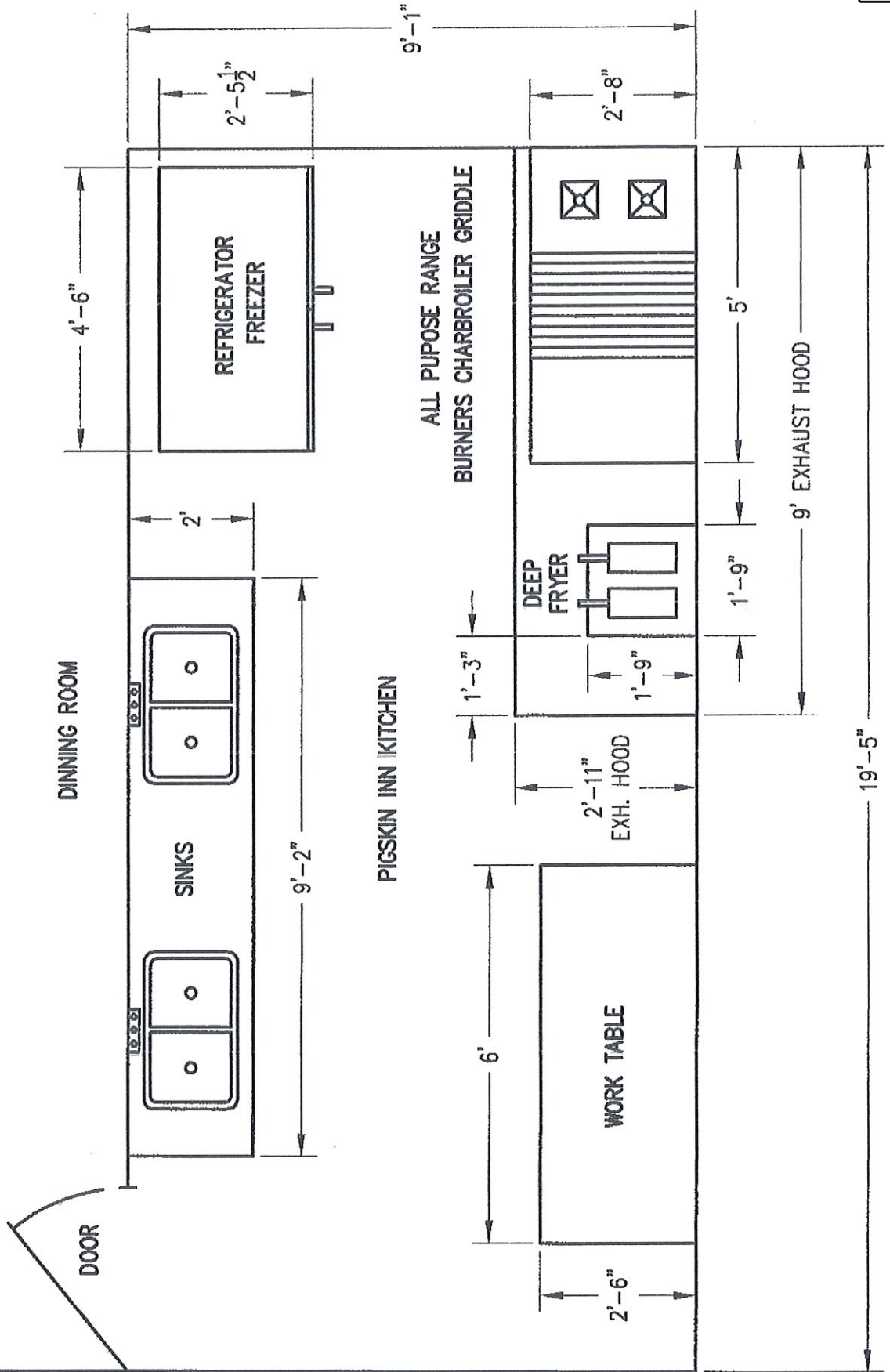

 Terrence E. Wright


 Gina A. Wright

Attachment: KornerQs_PacketDocs (5691 : Terrence & Gina Wright for Korner-Q's)



BAR







CUSTOMER/ PROJECT Korner-Q's - Exterior Sign

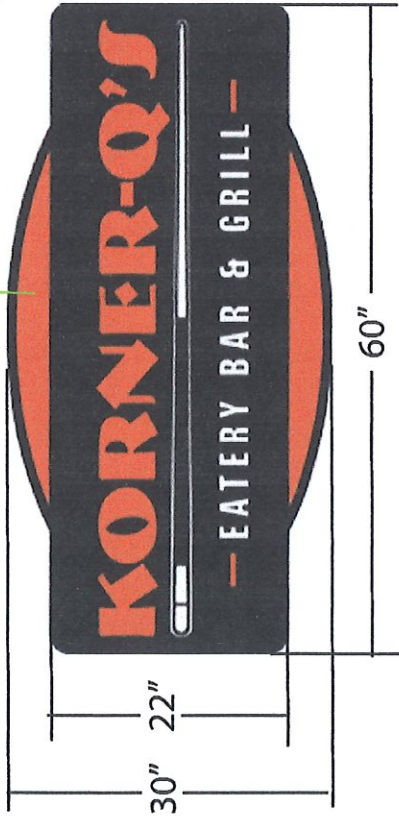


☒ INSTALL ☐ PICKUP ☐ SHIP

REMOVE EXISTING GRAPHICS ☒ YES ☐ NO

WORK ORDER # 1406

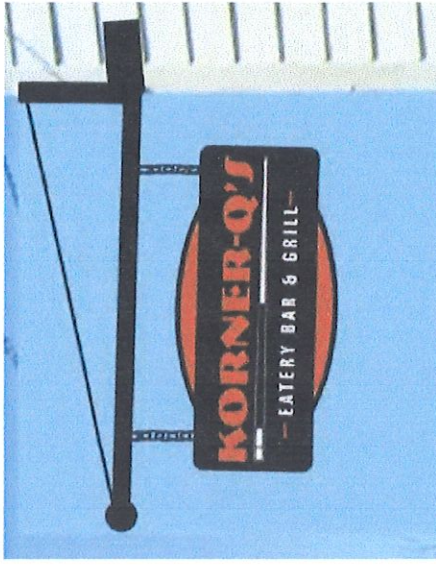
oval - separate piece of dibond sandwiched between 2 other panels with the logo/name



QTY: 1 - DOUBLE SIDED

- Projecting Sign with hanging bracket - NON LIT
- 3 pieces of 6mm black dibond sandwiched together
- 3M Orange (TBD) & 3M White cut lettering for logos/graphics
- Total size of hanging sign - 60"W x 30"H

SIDE VIEW



Location: 10631 W. Freistadt Rd, Mequon, WI 53097 Contact: Gina Wright

ARTWORK CHARGE — With your drawing/estimate, you are allowed one artwork revision. There will be an artwork charge for any additional drawings DESIGN LAYOUTS ARE COPYRIGHT ©2020.

ARTWORK APPROVAL

-PLEASE PROOFREAD CAREFULLY-

I have checked the DETAILS of this proof and approve the design. The Sign Group is not responsible for typographical errors. My signature authorizes The Sign Group to proceed with production of this order. I understand that I will be charged for product and labor, even if I cancel the order after this date.

- ☐ Color
☐ Spelling
☐ Copy Content

*Color will vary from screen to screen & may not be "exact"
 Also, please reference materials used to the right.

UNIT # N/A
 USDOT # N/A
 DRAWN BY: P. BLICHARZ
 DATE: 11/10/20
 FILE NAME: Korner Q's Exterior Sign.plt

MATERIALS USED

2.a.a

PARKING CALCULATION FOR KORNER-Q's

ZONING CODE	
Use	Restaurant/tavern with second level apartment unit
Parking Requirement	Restaurant/Tavern: One space per 100 square feet of gross floor area plus one space per employee for the work shift with the largest number of employees. Apartment: Two spaces per dwelling unit

PROPOSED RESTAURANT/TAVERN	
Total square footage	2,344 square feet (bar and dining area = 1,136 SF)
Max. employees on one shift	2 employees

PARKING CALCULATION PER CODE REQUIREMENT	
Parking Required for Proposed Use	25 stalls based on code requirement
Parking requirement for entire site	27 stalls
Parking on Site	21 stalls
Code Compliance	Deficient by 6 stalls

PARKING CALCULATION BASED ON BAR/DINING AREA SQUARE FOOTAGE	
Parking Required for Proposed Use	13 stalls
Parking requirement for entire site	15 stalls
Parking on Site	21 stalls

		2.a.a
CONDITIONAL USE GRANT Articles of Agreement made and entered into this 23rd day of November 2020, by and between Terrance and Gina Wright, owner of the property located at 10631 W Freistadt Road and the City of Mequon Planning Commission. Before the Planning Commission of the City of Mequon, Ozaukee County, Wisconsin, in regard to the premise located in Section 20 Range 21 East, in Township 9 North, Ozaukee County, State of Wisconsin, further described as follows: LEGAL DESCRIPTION Exhibit A-1 WHEREAS, the Zoning Code and Zoning District Map of the above named municipality, pursuant to State Statues, provide that the premises may not be used of right for the purpose hereinafter described but that upon petition such use may be approved by the municipality as a Conditional Use Grant in particular circumstances as defined by the standards in the Zoning Ordinance; and Petition therefore having been made, and public hearing held thereon, and the Planning Commission of the <u>City of Mequon</u> having determined that by reason of the particular nature, character, and circumstances of the proposed use, grant of such use upon the terms and conditions hereinafter prescribed would be consistent with the requirements of the Zoning Ordinance. Now, therefore, IT IS GRANTED, subject to compliance with the terms and conditions hereinafter stated that the Premises may be used for the purpose of <u>restaurant</u>. GRANTED by action of the Planning Commission of the City of Mequon this 23rd day of November 2020. John Wirth, Mayor, Planning Commission Chairperson Acknowledgment: STATE OF WISCONSIN))SS OZAUKEE COUNTY) Personally came before me, this ____ day of _____, 2020, the above named John Wirth, Mayor, to me known to be the person who executed the foregoing instrument and acknowledged the same. Notary Public, Ozaukee County, Wisconsin My Commission (expires) _____ Planning Commission Secretary Acknowledgment: STATE OF WISCONSIN))SS OZAUKEE COUNTY) Personally came before me, this ____ day of _____, 2020, the above named _____, Planning Commission Secretary, to me known to be the person who executed the foregoing instrument and acknowledged the same. Notary Public, Ozaukee County, Wisconsin My Commission (expires) _____		RETURN TO: City of Mequon 11333 North Cedarburg Road 60W Mequon, WI 53092 PARCEL NO.: 14-020-06-004.00

Attachment: KornerQs_PacketDocs (5691 : Terrence & Gina Wright for Korner-Q's)

The **CONDITIONS** of this Grant are:

1. This grant shall become effective upon the execution and recording by the owners and operators of the Premises of an acceptance hereof in such form as to constitute an effective covenant running with the land.
2. This grant shall expire and become void unless, pursuant to the building and zoning codes of the City, the approved use is commenced or the building permit is obtained within twelve (12) months of the date of Planning Commission approval noted above, or actual construction is commenced within twelve (12) months of the date on which the building permit was issued.
3. This grant is subject to amendment and termination in accordance with the provisions of the Zoning Code of this municipality.
4. Construction and operation of the use granted shall be in strict conformity to the approved site, building, and operations plans filed in connection with the Petition for this Grant, and annexed hereto.
5. Any of the conditions of this Grant which would normally be the responsibility of tenants of the Premises shall be made a part of their lease by the Owner, which lease shall contain provisions for posting of the pertinent conditions to notify employees thereof.
6. This grant shall automatically be null and void if this use is discontinued for a period of twelve (12) months.
7. The Grantee and its successors in interest shall hold the City of Mequon harmless from any claims or losses to the City or its residents including reasonable attorney fees arising from or related to use of the facilities.
8. Any change to the approved use or change to the building or site plan will require an amendment to the Conditional Use. Minor changes to the building and site plan shall be approved by the Department of Community Development.
9. **Conditions on the Operations:**
 - a. Hours of operation: 11:00 AM to 10:00 PM Sunday thru Thursday
11:00 AM to 2:00 AM Friday and Saturday
 - b. Water supply requirements:
City Water
 - d. Provisions for sewage disposal:
City Sewer
 - e. Other:
 - If the conditional use shall become hazardous, harmful, noxious, offensive or a nuisance to the surrounding neighborhood, or if material problems shall arise with respect to noise, traffic circulation, ingress and egress, parking, unenclosed storage, lighting, maintenance, or any other condition which shall materially threaten health or safety or to become a nuisance condition, the Grantee shall correct or improve such condition, and toward that end, the Planning Commission, after public hearing, may alter, amend or add reasonable additional Conditional User Grant conditions in order to ameliorate such effects, or in the case of violation of the Conditional Use Permit, may revoke the Conditional Use Grant.
 - If, despite efforts to prescribe conditions which render the conditional use harmonious in the surrounding neighborhood, problems shall arise with respect to noise, traffic circulation, ingress and egress, parking, unenclosed storage, lighting, maintenance, or any other condition which shall materially threaten the peace and enjoyment of neighboring properties, or shall become hazardous, harmful, noxious, offensive or a nuisance to the surrounding neighborhood, or shall threaten health or safety, the Grantee shall correct or improve such condition, and toward that end, the Planning Commission, after public hearing, may alter, amend or add reasonable additional Conditional User Grant conditions in order to ameliorate such effects, and in the case of violation of the Conditional Use Permit, may revoke the Conditional Use Grant.
10. **Conditions of the structures:**
 - a. Site Plan: As per attached Exhibit A
 - b. Landscaping Plan: As on file with Community Development Department, City of Mequon
 - c. Elevations: N/A
 - d. Sign: As on file with Community Development Department, City of Mequon
 - e. Floor Plan: As on file with Community Development Department, City of Mequon
 - f. Exterior lighting of the site and building: As on file with Community Development Department, City of Mequon
 - g. Fence / Wall / Dumpster plan details: As on file with Community Development Department, City of Mequon

Attachment: KornerQs_PacketDocs (5691 : Terrence & Gina Wright for Korner-Q's)

- h. The building shall comply with the building code.

- 11. **Conditions on the site:**
 - a. Street access (number, location, design): As per attached Exhibit A
 - b. Off-Street Parking (location and design including screening thereof): As per attached Exhibit A.
 - c. Outside storage of materials, products or refuse (location and screening thereof): As per attached Exhibit A
 - d. Parking, exterior lighting of the site, location design and power:
Any changes subject to Planning Commission approval.
 - e. Other:

Owner

Acknowledgment:

STATE OF WISCONSIN)SS
OZAUKEE COUNTY)
Personally came before me, this ____ day of _____, 2020, the above named _____, Owner, to me known to be the person who executed the foregoing instrument and acknowledged the same.

Notary Public, Ozaukee County, Wisconsin

Receipt of a true Copy of this instrument
on behalf of the petitioner acknowledged
the _____ day of _____, 2020



11333 N. Cedarburg Rd
Mequon, WI 53092-1930
Phone: 262-236-2902
Fax: 262-242-9655

www.ci.mequon.wi.us

Department of Community Development

TO: Planning Commission
FROM: JAC ZADER, ASSISTANT DIRECTOR COMMUNITY DEVELOPMENT
DATE: November 23, 2020
SUBJECT: Mequon Medical. The applicant is seeking building and site plan and specimen tree removal approval for a 29,500 sq. ft. +/- outpatient medical clinic for the property located at the northwest corner of Highland Road and Port Washington Road.

Applicant: John Ford
Status of Applicant: Agent
Requested: Building and Site Plan
Specimen Tree Removal
Existing Zoning: Neighborhood Commercial
Existing Land Use Plan: Neighborhood Commercial
Lot size: 3.93 acres
Location: 1310 W. Highland Road
Tax Key: #15-007-16-000.00
District: #5

Background: The applicant is requesting building and site plan approval for a 29,989 square foot medical office building at 1310 W Highland Road. The Common Council approved the rezoning from R-2B (Single Family 1.5 Acre) to NC (Neighborhood Commercial) with a PUD at its November 10, 2020 meeting.

NC District Standards: The following table compares the proposed plan to the NC district standards:

District Regulations:	NC:	Proposal
Minimum Lot Area:	1.5 acre	3.93 acres
Open Space Ratio:	40%	44%
Maximum FAR:	30%	17.5%
Maximum Building Height:	42 feet	30 feet
Building Setback	50 feet	50 feet
Building North Side Yard Offset:	30 feet	116 feet
Building East Side Yard Offset:	20 feet	20 feet
Building South Side Yard Offset:	20 feet	20 feet
Building West Side Yard Offset	30 feet	157 feet
Minimum Parking Setback East:	15 feet	30 feet
Minimum Parking Setback South	15 feet	32 feet
Minimum Parking Offset West	20 feet	23 feet
Minimum Parking Offset North	20 feet	21 feet
Off-Street Parking: (Office)	130 stalls	131 stalls

Site Plan:

The proposed site plan is consistent with the concept plan showed during the rezoning process. The plan shows access to the site from Port Washington Road and Highland Road. As a condition of the PUD, access to Highland Road shall be limited to a right in/right out. The proposal complies with all technical standards of the code except the location of the dumpster enclosure. Since the enclosure is considered a structure it is required to comply with the 30-foot offset. As a condition of approval, the final location of the enclosure shall be reviewed and approved by staff. The plan shows 131 parking stalls which complies with the code for a medical office user. There is a proposed sidewalk that wraps around the building and connects to the asphalt path that is shown in the city right of way.

The plan includes a .368-acre outlot that is located between the building and the Port Washington and Highland Road intersection. The outlot is required as part of the PUD and includes an 8-foot walking path and landscaping. The path extends to the north and west property line as required per the PUD. The plan includes an option to add landscaping and signage at the corner of the outlot. Staff is supportive of the landscaping and signage option and will work out the details regarding this feature in the development agreement. The plan does not include street lighting along the path as required as part of the PUD. At this time, the light fixture for the Ula Creek neighborhood (formally referred to as East Growth) has not been selected. Once a fixture has been selected, staff will work with the applicant to determine number of and locations for the lights. Staff recommends that the lights are located adjacent to the proposed path. Details of the lighting will also be addressed in the development agreement.

Building Plan:

The applicant has worked with staff over the last several months on the design of the proposed medical office. The applicant submitted renderings of the building to the Common Council as part of the rezoning process. The current submittal is consistent with the plans presented to the Common Council. The proposed 29,989 square foot single story building is shown to be constructed of brick, stone veneer, fiber cement panels and metal fascia. In response to previous feedback, the current design is more traditional in nature with a more earth tone palette and several gable roof elements. Staff is supportive of the new design.

Landscaping:

The plan was submitted to the city's landscape architect consultant, Terry Higgins, for review and comment. Based on his review, staff will require the applicant resubmit the plan with the following changes:

- All deciduous trees shall have a 3" caliper.
- All conifers shall be 7' in height
- Street trees shall be added along Highland Road and Port Washington Road. Trees shall alternate on each side of proposed path.

In addition to these conditions, staff will require addition plantings on the west side of the driveway as it approaches Highland Road to provide screening for headlights as vehicles exist the site. Additional plantings shall include year-round, natural screening with varying heights of vegetation and remain in keeping with the remaining landscaping design on site.

Lighting:

The lighting plan shows 16-foot-tall parking lot lights and 42" bollards. The fixtures are shown to be full cutoff as required by the lighting code. The dispersion plan shows the parking lot in compliance with the 2.0 foot-candle average and the light trespass requirements. The plan did not include any building wall packs or other ground mounted lighting. As condition of approval, staff will require submittal of all additional lighting for review and approval.

Specimen Tree Removal:

The City Forester, Mike Gies inspected the site and determined that it contains two specimen trees. There is a 14" Sugar Maple and a 16" White Pine (see attached memo). His recommendation is to allow removal of the specimen trees in accordance with the Tree Preservation Guidelines.

Engineering Review:

Kristen Lundeen, Director of Public Works and City Engineer has reviewed the application and has the following comments:

The site plan proposes two access points: a full access on Port Washington Road and a right in/right out only access on Highland Road. Port Washington Road is under the jurisdiction of Ozaukee County. Any improvements within the right-of-way requires Ozaukee County approval and an access permit. As the Highland Road access is right in/right out only, no bypass lane is required to accommodate left turning movements. Acceleration and deceleration lanes are required, as is incorporation of all recommendations of the traffic impact analysis study.

The site is located within the City's sewer service area and connection to the public utility is required. Discussion regarding the means and methods of public utility service to the site has evolved throughout discussions with the project team. City staff advised the development team of ongoing policy discussions at the Planning Commission Policy Subcommittee regarding extension of public water and sanitary sewer. At this time, the City is not pursuing extension of the public sanitary sewer north on Port Washington Road. City staff also advised that the existing sanitary sewer capacity in this area is limited, therefore on-site accommodations may be required to adjust flow allowances. The development team responded with a capacity analysis for the private lift station at Ascension hospital to the north, indicating that system had the capacity to include the flow from the site. The City of Mequon and Ascension hospital have an agreement in place restricting the discharge of flow to address the capacity issues.

If the medical office building will not connect into that private lift station, the City will commission an analysis of the capacity within the existing sanitary sewer system, at the cost of the developer. The property is located near the upstream most point of the system. The City is obligated to ensure that the proposed development will not negatively impact the downstream properties. If improvements to the existing system are required to accommodate the flow from the development, the cost of those improvements should be paid by the developer. Alternatively, the private system could include flow restrictions on site to meet capacity constraints.

Connection to the public water utility is also required. The site plan includes a water main extension for a fire hydrant and a private lateral to service the site. The location and configuration of the service will be reviewed upon Planning Commission approval. Staff is concerned about the location given all of the proposed landscaping and hardscaping improvements proposed at the corner. Public water is available in Port Washington Road to service the site.

The site land disturbance will be in excess of one acre, therefore a City erosion control permit is required. Evidence of the WDNR required WRAPP permit shall also be provided for the site.

The site will include an increase in impervious surface in excess of one half acre and site disturbance of greater than an acre therefore requires a stormwater management plan (SWMP). The proposed site will be required to provide additional stormwater management to meet the current City of Mequon, WDNR and MMSD criteria. Stormwater facilities are shown on the site plan.

Wetlands are present on site, but are shown to be filled. Copies of all WDNR permitting and an associated City fill permit is required, if applicable. If the fill for the site is in excess of 1,000 cubic yards or any of the berms exceed 4 feet in height, further Planning Commission approval is required.

Staff Recommendation: Planning staff recommends approval of the building and site plan subject to the following conditions:

1. The landscaping plan shall be updated to address the following:
 - All deciduous trees shall have a 3" caliper.
 - All conifers shall be 7' in height
 - Street trees shall be added along Highland Road and Port Washington Road.
 - Plantings shall be added along the west side of the Highland Road driveway.
2. Staff review and approval of site, elevation, lighting and landscaping plans.
3. Trash enclosure shall be relocated to meet the 30-foot offset requirement. Staff review and approval of final location is required.
4. The applicant shall provide 22.5" of replacement trees on the property or in a City park or pay \$2,250 to the City of Mequon for urban forestry projects.
5. Staff review and approval of final site, building and lighting prior to issuance of permits. The applicant shall submit such plan within 30 days of Planning Commission action, or the required plan(s) shall be submitted to Planning Commission for additional review and action and subject to all necessary fees.
6. A landscaping escrow equal to 125% of the improvement costs for installation of landscaping by a licensed contractor and an escrow equal to 25% of the landscape contract cost to insure that landscaping that dies within three (3) years of installation will be replaced by the applicant.
7. An updated lighting plan shall be submitted to show the following:
 - Cut sheets for all wall packs and any other site lighting.
8. All ground-level and roof top mechanical equipment shall be well screened from public view.
9. A dedication and development agreement that outlines improvements, ownership and maintenance of the outlot.
10. Installation of Ulao Creek designated light fixtures within or along the public right-of-way. Staff review and approval of the number and location of the light fixtures.
11. The Developer and City shall enter into a Developer's Agreement which shall address infrastructure, utilities and include a provision related to the future payment of park and open space impact fees which the City is contemplating for properties within the Ulao Creek neighborhood (formally known as the East Growth area) for passive recreation opportunities for residents and employees of businesses within the area. The Developer's Agreement shall include a provision where the City will commission a capacity review of

the existing sanitary sewer, which shall be paid by the developer. If any capacity upgrades to the City's public system is required to accommodate this development, the cost shall be borne by the developer. Alternatively, if the developer could install on site restrictions to meet capacity constraints, or pursue connection to the adjacent private lift station. The Developer's Agreement shall also address the City's intent to provide amenities within the Outlot and the developer's requirement to construct amenities including the proposed path, as well as the City's obligation for maintenance of certain amenities and the property owner's obligation to maintain the path, including snow removal.

12. A PILOT agreement shall be negotiated into the development agreement.
13. The development must comply with all recommendations of the updated Traffic Impact Analysis and provide acceleration and deceleration lanes on Highland Road.
14. Approval by Ozaukee County of the driveway access location and discharge of runoff. The applicant shall provide a copy of the access permit.
15. Engineering Division review and approval of grading, drainage, sanitary sewer, watermain, and erosion control plans in conformance to City ordinances and the Standard Specifications for Land Development.
16. Application for and approval of a City erosion control permit, subject to applicable fees and conditioned upon WDNR issuance of a WRAPP permit.
17. Application for and approval of a City Filling and Excavation Permit, if applicable. If the amount of fill exceeds 1,000 cubic yards, further Planning Commission approval of a minor request is required.
18. If the wetlands are to be filled, the developer shall submit a copy of WDNR permitting.
19. Upon confirmation of sanitary capacity limitations, connection to public water and sanitary sewer and execution of the associated Water Service Transfer Agreement. The public water main extension also requires WDNR approval.
20. Review and approval of a storm water management plan conforming to City ordinances, MMSD and WDNR regulations, as well as a easement agreement memorializing property owner obligations to construct and maintain.
21. As a condition of approval and issuance of the permit, the city engineer will require in accordance with City ordinance 58-677(b) that the applicant deposit an escrow or letter of credit to guarantee a good faith execution of the approved control plan and any permit conditions. The escrow / letter of credit shall be in an amount equal to 125% of the estimated cost of construction and maintenance of the storm water management practices and the City will release the portion of the Financial Guarantee less any costs incurred by the city to complete installation of practices, upon submission of a certification in accordance with 58-678(h).

Attachments:

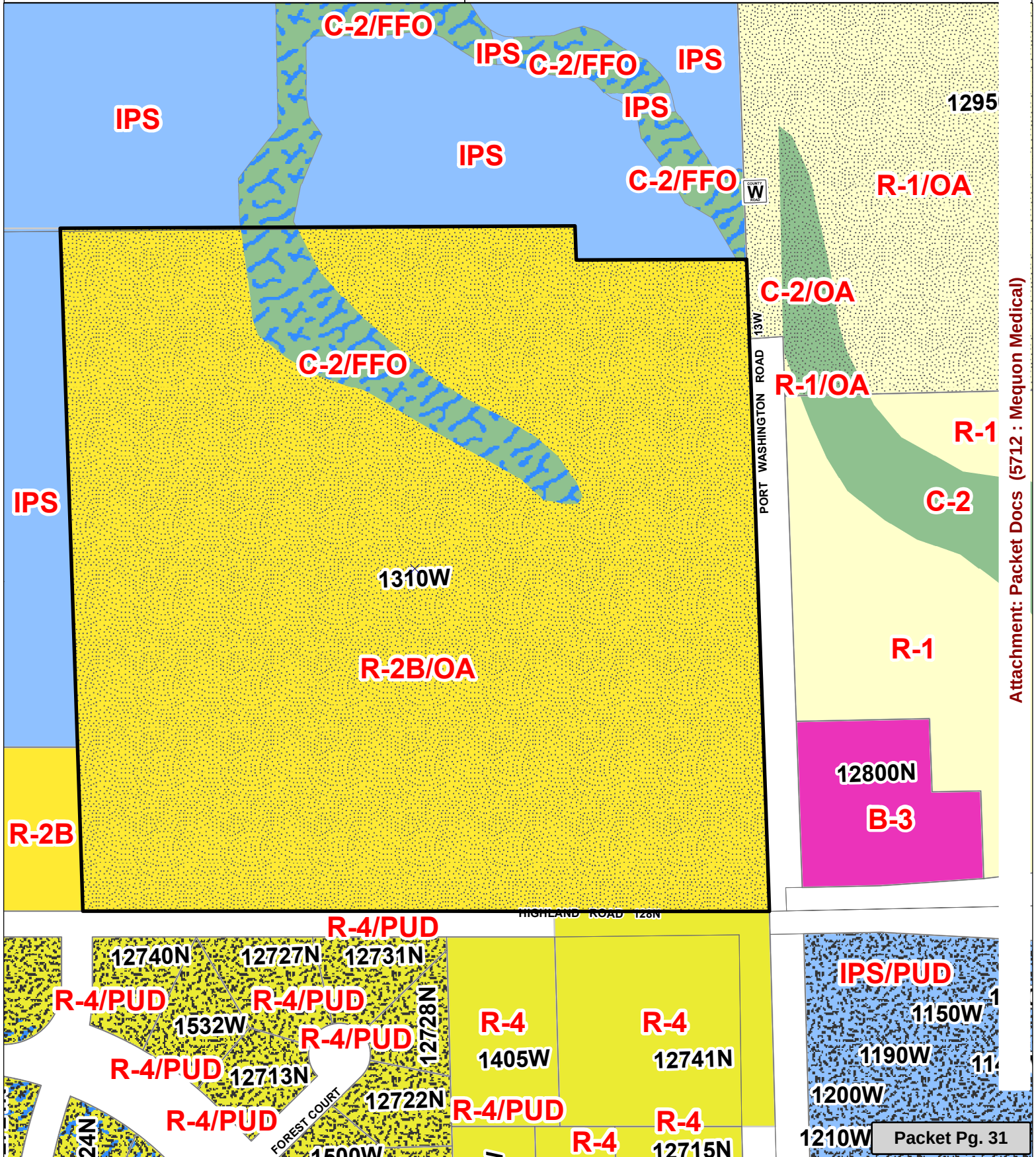
Packet Docs (PDF)

Mequon Medical

AC Arrival Corridor
A-1 Agricultural Preserve
A-2 General Agricultural
B-1 Neighborhood Business
B-2 Community Business
B-3 Office & Service Business
B-4 Business Park
B-5 Light Industrial
B-6 Rural Industrial
B-7 Rural Business
C-1 Shoreland/Wetland Conservancy
C-2 General Conservancy
CGO Central Growth Overlay
FFO Flood Fringe Overlay
FW Floodway
IPS Institutional & Public Service

LTD Limited Use
OA Agricultural Overlay
PUD Planned Unit Development Overlay
P-1 Park & Recreation
R-1 Single-Family Residential (5 Ac. Min.)
R-1B Single-Family Residential (2.5 Ac. Min.)
R-2 Single-Family Residential (2.0 Ac. Min.)
R-2B Single-Family Residential (1.5 Ac. Min.)
R-3 Single-Family Residential (1.0 Ac. Min.)
R-4 Single-Family Residential (3/4 Ac. Min.)
R-5 Single-Family Residential (1/2 Ac. Min.)
R-6 Single-Family Residential (4 du/Ac)
RM Multi-Family Residential
TC Town Center
TDR Transfer of Development Rights

3.a.a



Attachment: Packet Docs (5712 : Mequon Medical)



To: Mequon Planning Commission

From: Mike Gies, Parks and Forestry Superintendent

Date: November 18, 2020

Subject: Highland Road and Port Washington Road: Removal of Specimen Trees

Background: The applicant is requesting removal of fifteen (2) specimen trees located on the corner of Highland Road and Port Washington Road. Both trees in question are located on the eastside of the property adjacent to Port Washington Road. The tree inspection was completed on November 16, 2020. The two trees in question were identified as: 1- 14" Sugar Maple and 1- 16" White Pine. The Sugar Maple is approximately 20' tall with a spread of 15'. The overall condition of the tree can be considered good to excellent at this time.

The White Pine is approximately 25-30' tall and the condition can be considered fair.

Analysis: The following is a list of trees present on site and considered within this memo:

- Sugar Maple (14" diameter) *current status: recommended for removal*
- White Pine (16" diameter) *current status: recommended for removal*

Staff recommends approval of both specimen tree removals. The reasons for removal consideration are as follows:

1. Although the condition of the Sugar Maple would be considered good to excellent, the placement of the tree is what brings up a concern to the longevity of the specimen. The Sugar Maple was planted directly under the powerlines that run adjacent to Port Washington Road. The canopy of the tree is approximately 4-5' from impeding the electrical line at this time. Given that the ultimate size of a mature Sugar Maple could exceed 55-75' in height, staff believes that it would be practical to remove the tree and require replacements in a more appropriate location on site. If the tree was left staff is certain that it would be impacted by, WE Energies in the future.
2. Staff is concerned about the condition of the existing White Pine. The tree has grown surrounded by buckthorn and boxelder encroaching on three sides. Given this encroachment the tree has responded with little to no branching on the entire west side of the tree. The lower branches were also negatively impacted by the dense understory vegetation. The tree is also slightly chlorotic giving it its yellow appearance. Staff believes that the tree will not ever recover from these negative impacts and should be considered for removal and replacement.

Should the Planning Commission support the removal of specimen trees the total DBH would equal (30) inches. According to the ordinance, the applicant would be required to replace 75% of the total diameter. This would equal (22.5) inches of replacement trees. This would be

approximately (8) 3" trees, selected or approved by the Parks and Forestry Superintendent. In lieu of planting, the ordinance allows the applicant to donate \$2,250 to the Mequon Tree Fund, which would be used for Urban Forestry projects. Whether the owner decides to replant or not, the \$2,250 would be put into a non-lapsing escrow account before a building permit is issued. The money would then be returned after the tree planting is complete and approved by the Parks and Forestry Superintendent. Tree planting associated with the City of Mequon landscape requirements for the site will not apply to replacement requirements for specimen removal.

Should there be consideration to remove more specimen trees in conjunction with any future improvements it is necessary to bring that consideration forward to Planning Commission at a future date prior to the work being completed.

Tree Protection Requirement:

The following is required prior to any site clearing or building activities. To protect and preserve the trees as identified on the landscape plan or by the Planning Commission, the owner/developer/contractor shall install snow fencing no closer than 3' outside the dripline of the tree. Additionally, signs shall be posted stating the Tree Protection Zone. These zones will be inspected by the City Forester prior to the commencement of construction.

Thank You,

Mike Gies

Mequon Parks and Forestry Superintendent

Ascension Medical Clinic

Mequon, WI

September 21, 2020

PROJECT NARRATIVE & BUSINESS OPERATION PLAN

PLAN COMMISSION - BUILDING / SITE APPLICATION SUBMITTAL

<u>ADDRESS OF PREMISES:</u>	NW Quadrant of Port Washington Rd and Highland Rd See Exhibits for additional detail.
<u>NAME OF BUSINESS:</u>	Ascension Columbia St. Mary's
<u>TYPE OF BUSINESS:</u>	Medical Clinic
<u>REZONING REQUEST:</u>	B-2 with PUD Overlay Restricted for <u>ONLY</u> Medical Office Use
<u>PROPOSED USE:</u>	Medical Office / Clinic Building
<u>REZONING SCHEDULE:</u>	Plan Commission – July 27, 2020 (Approved 5-2 Vote) Common Council – September 8, 2020 – “First Read” Common Council – October 13, 2020 – Public Comment / Vote

PROJECT DESCRIPTION

Mequon Medical, LLC (“**Landlord/Developer/Owner**”), on behalf of Columbia St. Mary’s, Inc. (dba Ascension) (“**Tenant**”), requests the City of Mequon approval of Building/Site of a portion of the Northwest quadrant of the intersection of Port Washington Road and Highland Road.

Landlord and Tenant have an executed Lease & Development Agreement for Landlord to develop and construct an approximate 29,500 SF +/- outpatient medical clinic for Tenant. While the Lease Agreement is entirely with Tenant, the medical office clinic will include three separate medical groups to best support the growing medical needs of the aging population within the surrounding area:

Attachment: Packet Docs (5712 : Mequon Medical)

1. Ascension Medical Group (“AMG”)
2. Madison Medical Affiliates (“MMA”)
3. Premier Radiology (“PR”).

AMG has spent years conducting in-depth market analysis on the overall market as well exhausted efforts evaluating approximately 6 miles of potential clinic site locations along Port Washington Road to place this new state-of-the-art clinic featuring the latest technology and premier medical facility. In addition, MMA continues to grow within the greater Mequon community and has considered at length where to make a significant investment within the community in order to best serve the citizens of Mequon and the surrounding geographical area. Both AMG and MMA have an existing strong relationship with nearby neighbor ***Concordia University Wisconsin***. Given close proximity of site to the University, strategic collaboration exists between parties which may include future student learning opportunities. AMG and MMA are fully prepared to move forward in expanding their presence and commitment to the City of Mequon at this location.

The current Ascension clinic (approximately 2,500 SF) located on the northeast corner of Port Washington and Highland Roads will be relocating services to this new clinic. Anticipated patient services include non life-threatening primary and specialty care. Specialty care shall include podiatry and dermatology along with other potential care. Premier Radiology features a comprehensive diagnostic imaging center that will include a range of services and procedures, including walk-in and same day appointments.

BUILDING DESIGN

Designed by Eppstein Uhen Architects (EUA), the approximate 29,500 SF medical clinic facility will feature a welcoming entryway for guests of all three medical providers through an open, bright, oversized, glass filled atrium. On the interior, patients will have access to a variety of primary and specialty care to meet patients’ needs along with imaging. The exterior architecture has been completely redesigned and enhanced from the initial version based on feedback and discussions with City of Mequon staff, elected officials, and subcommittees. The ***NEW*** design draws from residential and agrarian forms and materials to complement the other adjacent buildings in the area. Sloped roof areas have been incorporated into the design with gables strategically placed to further enhance the architecture. Windows using a residential mullion pattern have been selected which are very similar to the adjacent hospital architecture. High quality materials will be used throughout including exterior materials comprised of stone and brick façade as well as fiber cement panels within the gable areas.

See **ARCHITECTURAL** drawings for building renderings, floor plan, and additional detail.

OUT-LOT & COMMUNITY BRANDING

Developer engaged an accomplished land planner who strongly suggested orientating the building at a 45-degree angle (see attached site plan). The most efficient land use would be to position on a 90-degree angle, if just trying to optimize developable yield. Instead, we have chosen to position the building at a 45-degree angle so that the building offers an exceptional four-sided architectural presentation fronting the intersection of Port Washington / Highland. This creates a triangle Out-lot which totals 0.368 acres at the intersection. This valuable land is effectively being offered to enhance the character and appeal to the Neighborhood Commercial District and first impressions to this area. This landscaped space will offer a collaborative and functional benefit to the greater Mequon community to enjoy enhanced curb appeal & plantings that generate both drive-by appeal and branding for the community's greater enjoyment. In addition, wide asphalt pathways will be installed within the right-of-way of both Highland and Port Washington (**Further Consideration #3**) and rear / Northwest area of parcel (**Further Consideration #8**), extending to the parcel's lot lines and connecting through the out-lot area, allowing pedestrians and bicycles safe travel.

Developer is willing to donate this out-lot parcel of valuable land for the betterment of the community. In addition, Mequon Medical LLC will enhance and pay for initial landscaping (as detailed in #1 of Landscape plan LSP1.4) and ongoing maintenance of such, as well as installation of the pathway connecting Port Washington / Highland (**Further Consideration #7**). If there is further desire by any party to install additional features (i.e. seat wall, signage, additional landscaping, etc.) within the out-lot area (as detailed in #2 of Landscape plan LSP1.4), this could be accommodated with cost and future maintenance being the responsibility of the party proposing such. We welcome Mequon's further input / contribution to make this out-lot visibly pleasing and welcoming to the Mequon community, as desired.

LANDSCAPING

Developer has engaged *InSite Landscaping* (Michael Davis) to design the landscaping for the medical parcel and out-lot. *InSite* has done work previously in Mequon on multiple developments and is familiar with code requirements.

Please see included final Landscape design along with imagery, plant list, and tree survey for the out-lot area. Specifically, please note the following enhancements as discussed in detail with Mequon City Staff and were conditions of approval as part of the Plan Commission Rezoning approval on July 27, 2020:

1. Landscaping Buffering (**Condition #9**) – to adequately buffer the development parking lot area from adjacent parcel(s) to the west and north of building, we have designed a berm + landscaping system that is attractive and functional. This will provide year-round screening. In addition, berms with landscaping will be selectively added near the respective roadways where appropriate.

2. Out-lot – with the addition of the I-43 Highland Road interchange in the coming years, the City will retain the right to install further enhancement through signage or similar **(Condition #6)** which could be very impactful as a First Impression Corner for the City. The out-lot will feature a combination of landscaping and pathways to further benefit its citizens.

See **LANDSCAPE** design for additional detail.

HOURS OF OPERATION

8:00 AM to 6:00 PM Monday – Friday **(Condition #4)**

PATIENT VOLUME

- AMG: Anticipated patient volume is between 40 and 50 patients per day.
- MMA: Anticipated patient volume is between 60 and 70 patients per day.
- PREMIER RADIOLOGY: Anticipated patient volume is between 20 and 30 patients per day.

ANTICIPATED STAFFING

- AMG: 25-30
- MMA: 30-35
- PR: 6-8
- Total Anticipated Jobs: 60-70

PARKING

Patient parking will be located on the north side of the building with additional parking on the sides of the building. Employees will be directed to park on the respective sides of the building to leave closer spaces for patients. There are no plans at this time to formally delineate employee or patient parking areas. Parking shall total approximately 131 parking spaces (4.38/1,000 SF) which includes 6 ADA parking stalls.

See **CIVIL** design for additional detail.

DELIVERIES/GARBAGE:

Deliveries will be daily during normal business hours. It is anticipated there will be three to five deliveries total Monday through Friday. Trash enclosure shall be located within the northwest corner of the parking lot minimizing any visibility from the respective streets. The trash enclosure materials will match the development and will include landscaping to further enhance the overall area.

See **ARCHTIECTURAL** design for additional details.

UTILITIES

The project site has municipal sanitary sewer and water main available within adjacent public right-of-way. An existing 8-inch sanitary sewer is located on the south side of Highland Road. A sanitary lateral extension has been proposed to provide the necessary service provision. An existing 16-inch water main is located on the east side of N. Port Washington Road (CTH “W”). Domestic water service and fire protection requirements for the facility would be achieved via a branch connection and extension to the subject property.

See **CIVIL** design for additional details including Utility plan.

STORMWATER MANAGEMENT

The existing site topography indicates that drainage generally flows northwest from a high point at the intersection of Highland Road and N. Port Washington Road (CTH “W”). Surface runoff eventually discharges to a large wetland complex downstream before reaching an unnamed tributary to the Milwaukee River. A conventional wet detention pond has been provided at the northwest corner of the proposed development. This stormwater management facility will meet or exceed requirements set forth by the City of Mequon, Milwaukee Metropolitan Sewerage District (MMSD), and Wisconsin Department of Natural Resources (WDNR).

See **CIVIL** design for additional details including *Storm Water Management Plan*.

TRAFFIC / ROAD INFRASTRUCTURE

Two (2) curb cut Entrance Drives are requested to service this site – Port Washington Road and Highland Road. The Port Washington Road entrance shall be located approximately 440’ north of the intersection and is anticipated to be a right in / right out ONLY access to assure safety. The Highland Road entrance shall be located approximately 423’ west of the intersection to

accommodate FULL access in all directions. Please note the following specifically related to traffic:

1. TADI – Traffic Impact Analysis. Developer engaged TADI to complete an **UPDATED** traffic impact analysis which specifically includes the clinic customer demand as well as the projected traffic statistics from WDOT for the pending new I-43 Highland Road interchange. The results are summarized in the attached detailed ***Traffic Impact Analysis report from TADI dated August 20, 2020***. Intersection operation is defined by TADI and the industry by “Level of Service” (LOS) which refers to the overall quality of flow at an intersection ranging from very good (LOS A) to very poor (LOS F). LOS D or better is considered acceptable during peak hour operating conditions. Based on the in-depth traffic analysis specific to this development, ALL traffic movements (including peak time periods) are expected to operate acceptably at LOS C or better.
2. Plan Commission (07/27/2020) – a request of the Plan Commission meeting was that the Highland Road entrance NOT be directly across from the residential house (1405 Highland Road) located immediately west of Highland House restaurant so as to not have headlights of vehicles leaving the site to shine into the house. Therefore, we have adjusted the location entrance for the clinic further east to approximately line up with the western boundary of the Highland House and eliminating direct positioning across from the residential house, which has been vetted by TADI in the traffic analysis report.
3. Ozaukee County – developer along with City Staff have been in contact with Ozaukee County (Mr. Jon Edgren, Public Works Director). Ozaukee County is in agreement to allow access via Port Washington, but ONLY if access is also provided via Highland. Per Ozaukee County Highway Access Control Code (section 6C), access priority must be given to lower classified roadway with lower Annual Average Daily Traffic (AADT). Given Port Washington has an estimated 11,900 vehicles per day and Highland Road has an estimated 6,800 vehicles per day, it will be safer to direct traffic via Highland and utilize the traffic signal accordingly. Therefore, Further Consideration #2 within Staff’s report to Common Council is unable to be met due to Ozaukee County rules & regulations.

WISCONSIN DNR - WETLAND

A small area of wetland impact has been proposed for the development. The site plan impacts two separate wetlands in proximity to the southeast corner of the subject property. Both wetlands are associated with the original farmstead. Wetland “A” is a small pocket (371 s.f.) of lowland hardwood shrubs and Wetland “B” is a 6,932 s.f. stand of lowland hardwood trees. A general permit application for wetland fill is in process with the Wisconsin Department of Natural Resources (WDNR) and U.S. Army Corps of Engineers (USACOE). This will be provided to Mequon prior to commencement of any construction work.

See **CIVIL** design plans for location of wetlands.

EXTERIOR LIGHTING PLAN

Included within the design documents is a full exterior parking lot and sidewalk lighting plan including full photometric calculations. Developer recognizes and agrees that once Mequon finalizes selection of East Growth designated light pole street fixtures within the right-of-way, it shall install such fixtures accordingly (**Further Consideration #4**).

SUMMARY

Mequon Medical, LLC is pleased to submit this application for consideration of Building/Site in order to accommodate Mequon's newest medical clinic to further benefit the citizens of Mequon and surrounding communities. Ascension Medical Group and Madison Medical Affiliates strongly value their relationship and impact within the Mequon community. Following a multi-year search considering sites throughout the entire area, this site is where each want to make a significant investment and expand the medical clinic space in the community.

In addition to being an amenity by expanding health care options to citizens with the latest state-of-the-art technology, this development will significantly impact the community economically through additional:

1. Jobs – 60-70 full-time good paying jobs.
2. Tax Revenue – approximately \$135,000 +/- real estate tax revenue to benefit community programs and school needs.

Please note, this development is asking for **NO** City provided Tax Incremental Financing (TIF). In fact, developer is willing to donate the Out-lot parcel (approximately 0.36 acres) of valuable land on the corner which will be enhanced with landscaping and a pathway. City will have the option (at City cost), if desired, to further enhance this out-lot as may desire (i.e. signage, seat wall, etc.). Last, the Plan Commission Subcommittee, after detailed analysis for the future growth of this area, recommended that this parcel at the NW quadrant of Port Washington / Highland Roads, should be Neighborhood Commercial in use.

Columbia St. Mary's Ascension is an advocate of the City of Mequon and an important partner within the community. This significant investment and long-term Lease Agreement for this site, further solidifies their commitment to the community for years to come. We ask for Plan Commission support in approving this Building/Site request. Thank you for your consideration of this request in an effort to further enhance and improve the quality and level of medical care provided within the greater Mequon area.



MAIN ENTRANCE PERSPECTIVE



DARK BRICK



LIGHT BRICK



STONE



FIBER CEMENT
GABLE PANELS + SCREEN WALL



METAL FASCIA PANELS
WINDOW FRAMES
GLASS



NORTHEAST PERSPECTIVE

Attachment: Packet Docs (5712 : Mequon Medical)



SOUTHEAST PERSPECTIVE

Attachment: Packet Docs (5712 : Mequon Medical)



SOUTHERN PERSPECTIVE

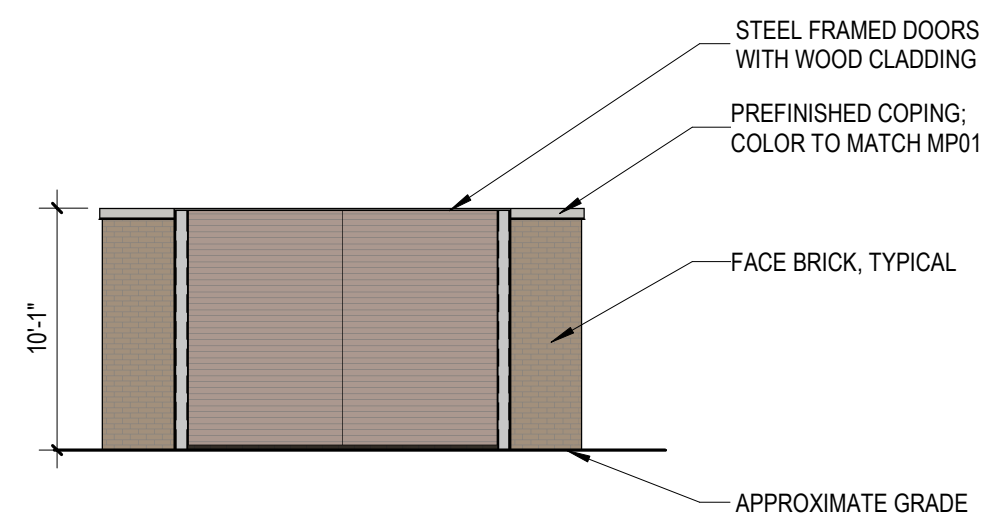


SOUTHWEST PERSPECTIVE

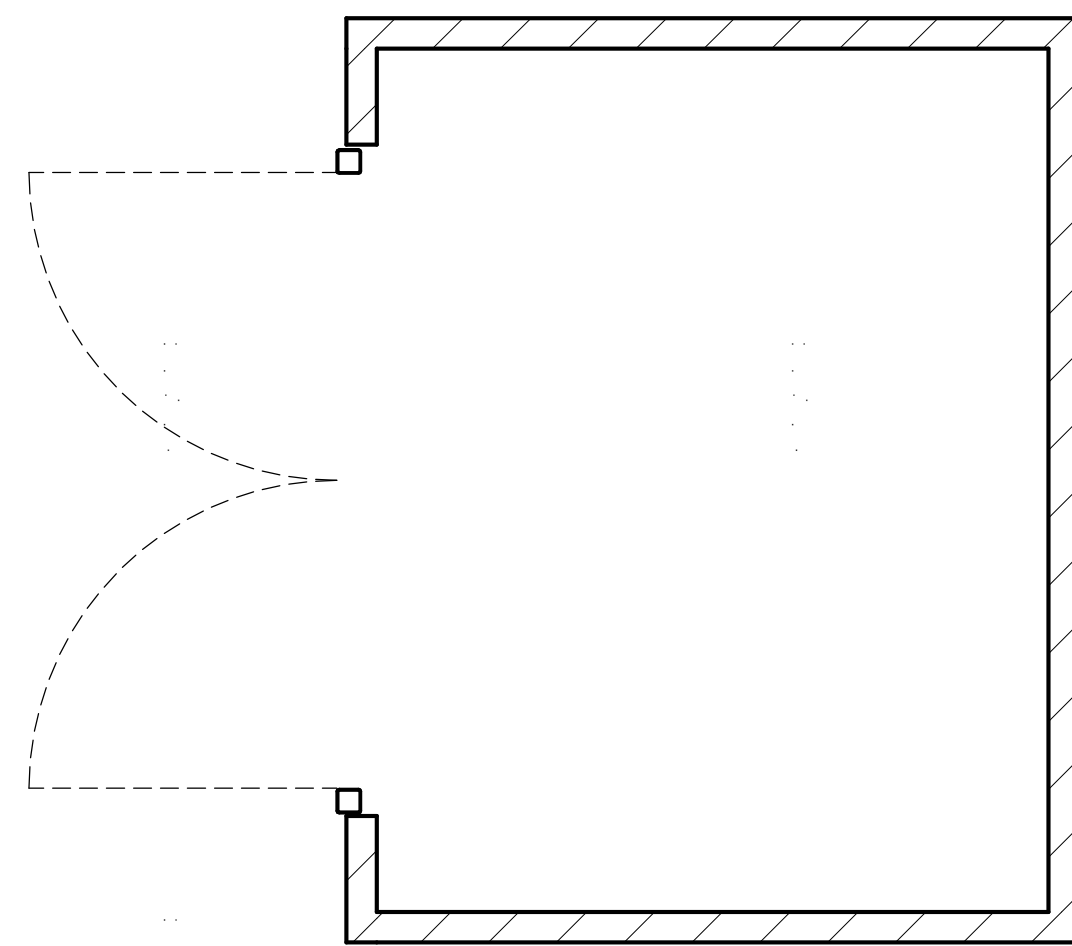
Attachment: Packet Docs (5712 : Mequon Medical)



1 FIRST FLOOR PLAN - PRESENTATION
3/32" = 1'-0"

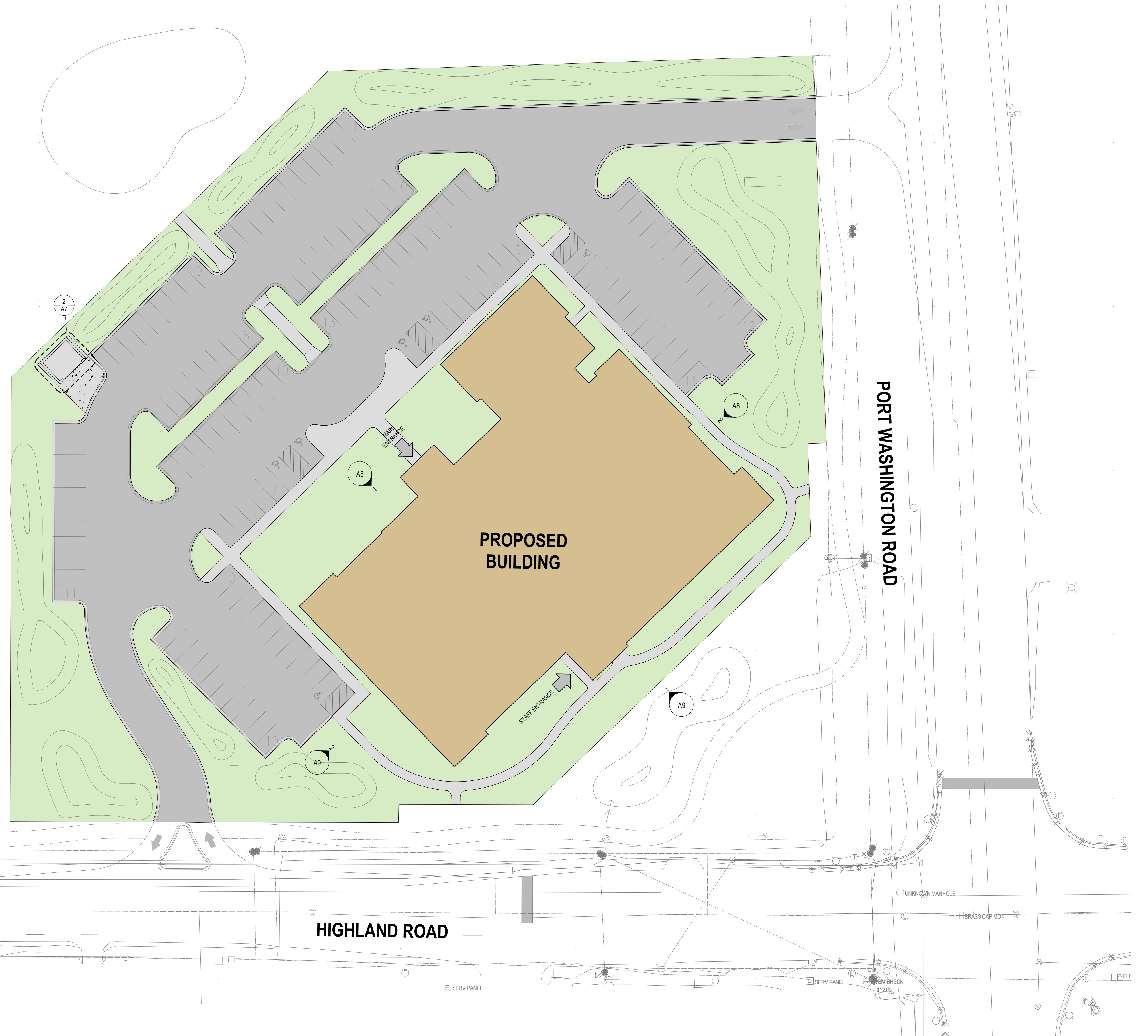


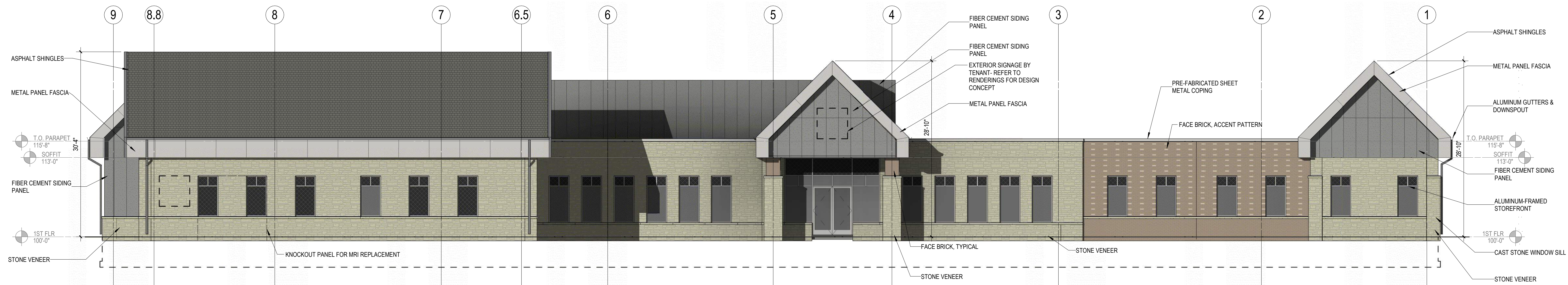
3 WASTE ENCLOSURE ELEVATION
1/8" = 1'-0"



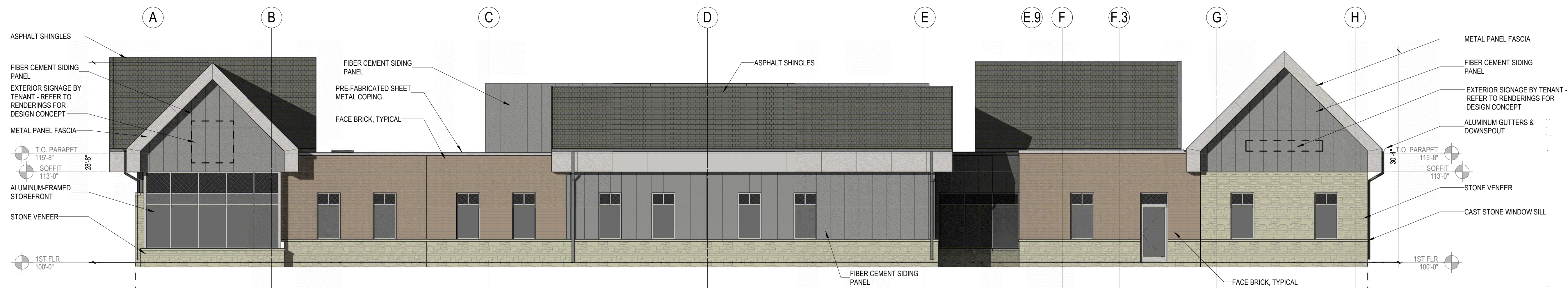
2 DUMPSTER ENCLOSURE PLAN
1/4" = 1'-0"

1 ARCHITECTURAL SITE
1" = 30'-0"

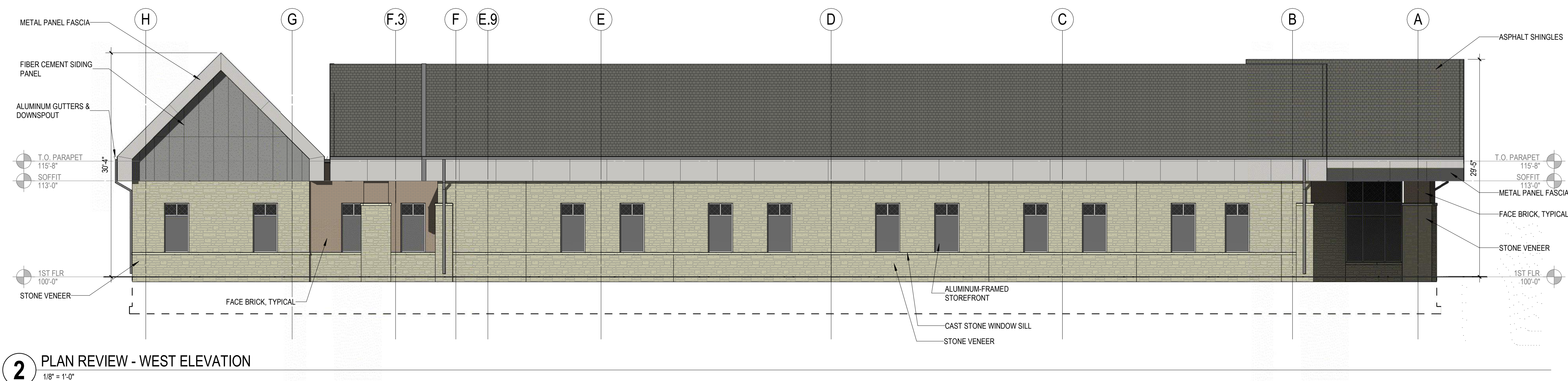


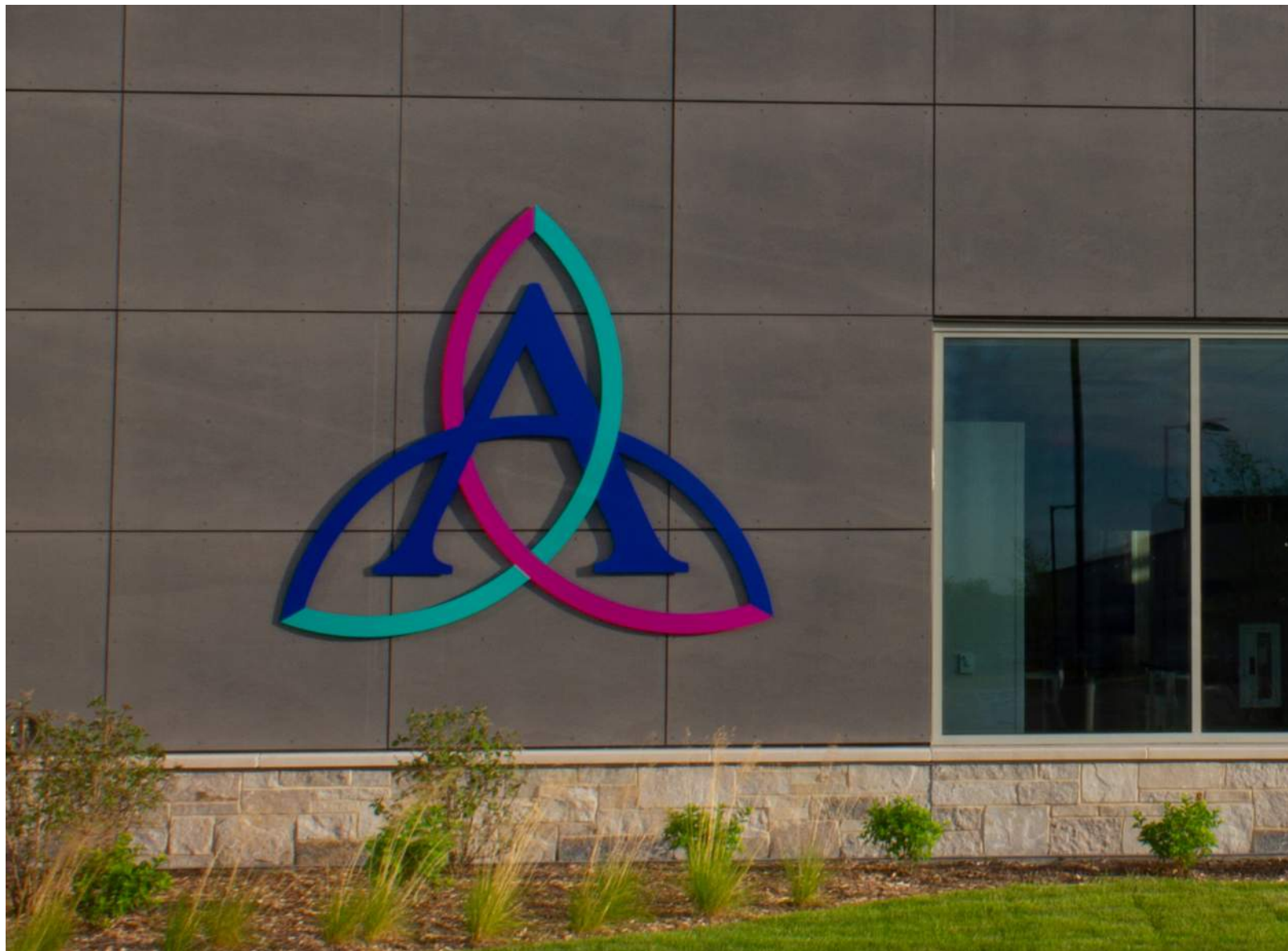


1 PLAN REVIEW - NORTH ELEVATION
1/8" = 1'-0"



2 PLAN REVIEW - EAST ELEVATION
1/8" = 1'-0"



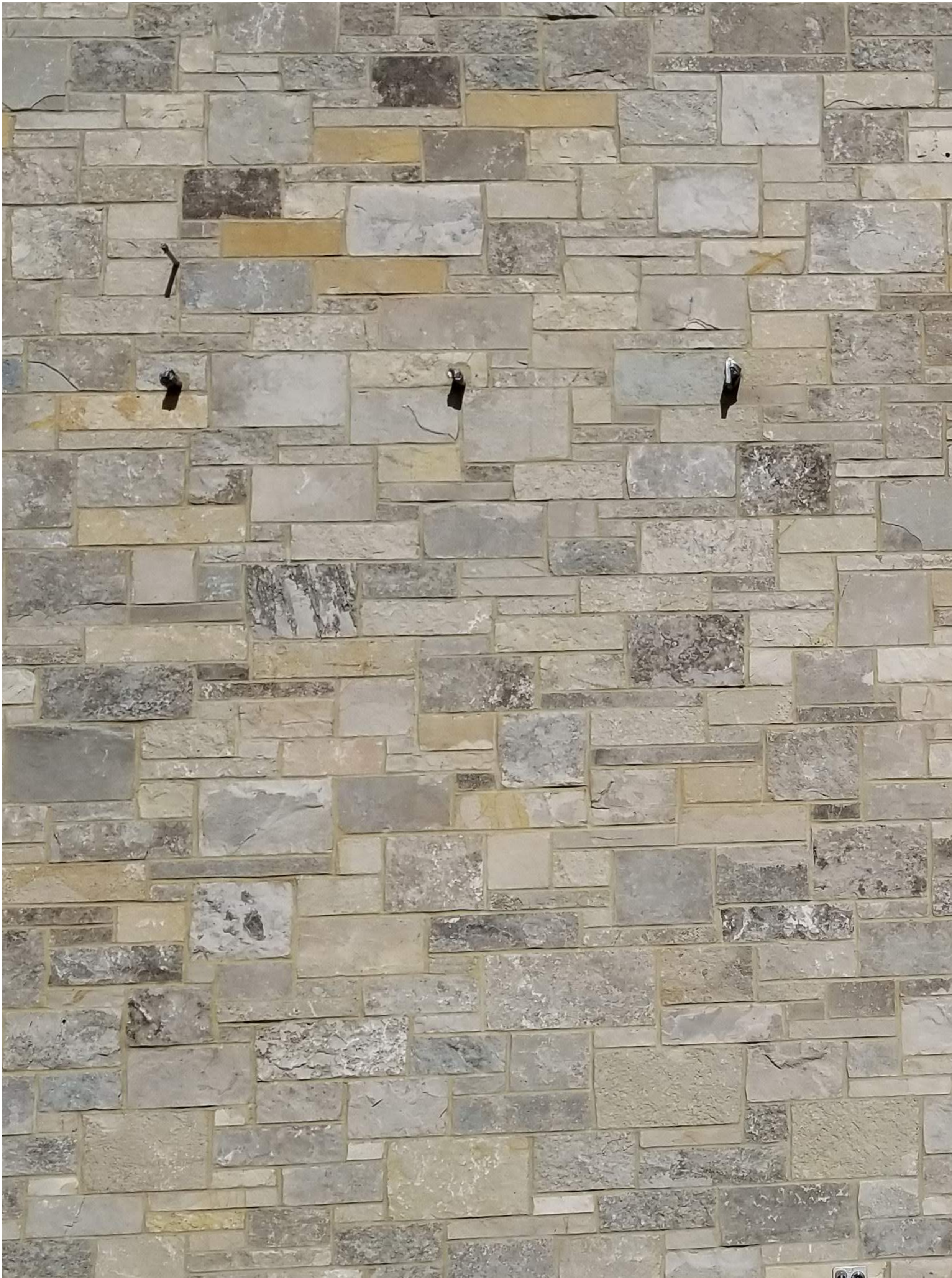


FIBER CEMENT
GABLE PANELS + SCREEN WALL

LIGHT BRICK



DARK BRICK



STONE



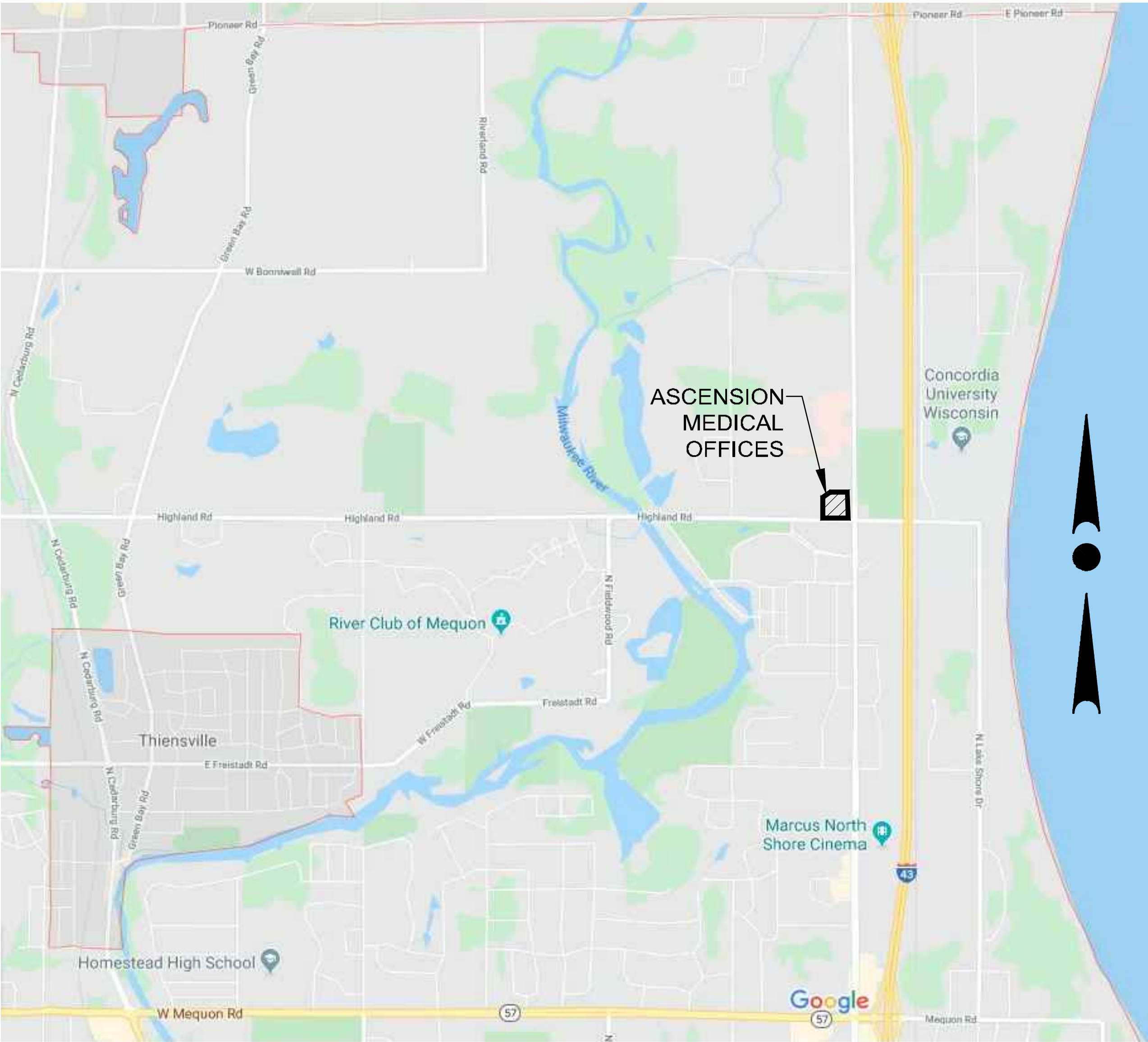
FIBER CEMENT
GLASS
METAL FASCIA + WINDOW FRAMES

GENERAL NOTES

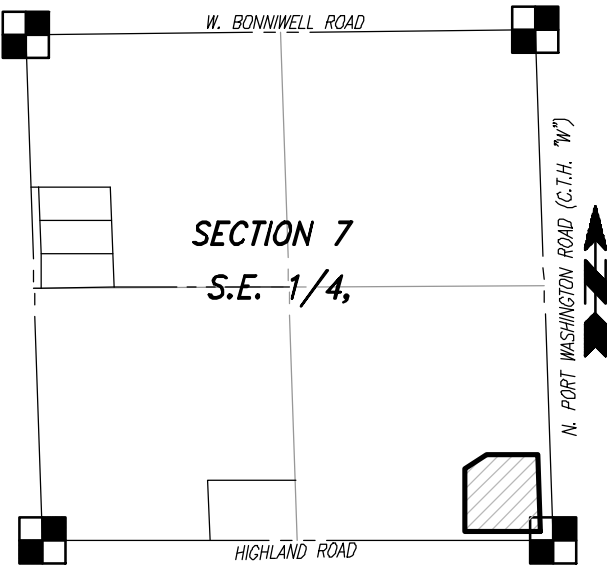
1. THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED.
-STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, 6TH EDITION (SSSWCW)
-THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
-WDNR STORMWATER RUNOFF TECHNICAL STANDARDS.
-WISDOT PAL APPROVED EROSION CONTROL MEASURES LIST, LATEST EDITION.
-CITY OF MEQUON STANDARDS & REQUIREMENTS FOR DEVELOPMENT, LATEST EDITION.
2. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
3. EROSION CONTROL PLAN: PRIOR TO BEGINNING WORK, AN APPROVED EROSION CONTROL PLAN WILL BE PROVIDED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY IMPLEMENTING THE APPROVED PLAN.
4. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY FLOOR, CURB OR PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (CALL DIGGERS HOTLINE AT 800-242-8511). COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY
6. EXISTING UTILITY INFORMATION IS SHOWN FROM SURVEY WORK, FIELD OBSERVATIONS, AVAILABLE PUBLIC RECORDS, AND AS-BUILT DRAWINGS. EXACT LOCATIONS AND ELEVATIONS OF UTILITIES SHALL BE DETERMINED PRIOR TO INSTALLING NEW WORK. EXCAVATE TEST PITS AS REQUIRED.
7. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF PERFORMING ANY CONSTRUCTION.
9. ALL TRENCHING SHALL BE PERFORMED ACCORDING TO OSHA STANDARDS.
10. ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
11. THE CONTRACTOR SHALL CLEAN ALL ADJACENT STREETS OF ANY SEDIMENT OR DEBRIS AS REQUIRED BY MUNICIPAL ORDINANCE.



AERIAL SITE PHOTO
NOT TO SCALE

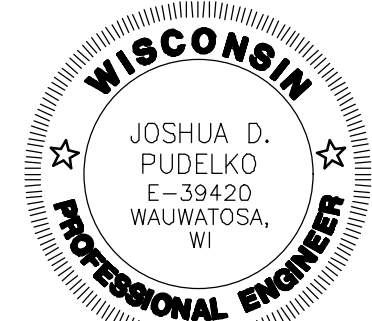


LOCATION MAP
NOT TO SCALE



LOCALITY MAP:
SECTION 7
T. 9 N., R. 22 E.
SCALE: 1"=1000'

SHEET INDEX	
CIVIL	
T1	- COVER SHEET
C1.0	- EXISTING SITE PLAN
C1.1	- PROPOSED SITE PLAN
C2.0	- GRADING PLAN
C2.1	- EROSION CONTROL PLAN
C3.0	- UTILITY PLAN
C4.0	- DETAILS



4100 N Calhoun Road
Brookfield, WI 53045
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
ASCENSION MEQUON CLINIC
CITY OF MEQUON, WISCONSIN

PREPARED FOR:
MEQUON MEDICAL, LLC
833 E MICHIGAN ST., SUITE 1000
MILWAUKEE, WI

REVISION HISTORY	
DATE	DESCRIPTION
02/7/20	INITIAL SUBMITTAL
09/18/20	PLAN REVISIONS
11/23/20	PLAN COMMISSION

DATE:
NOVEMBER 23, 2020

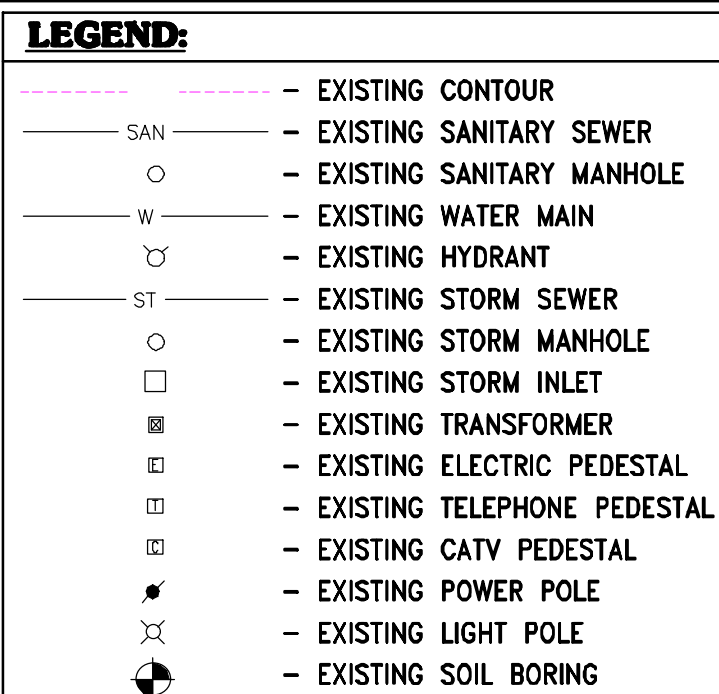
JOB NUMBER:
09016-787

DESCRIPTION:

COVER SHEET

SHEET

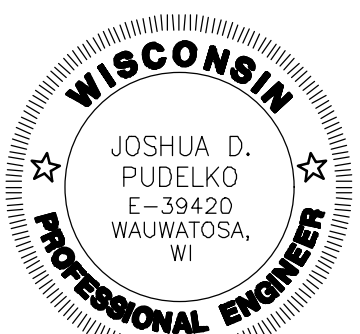
T1



Attachment: Packet Docs (5712 : Mequon Medical)

C1.0





4100 N Calhoun Road
Brookfield, WI 53045
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
ASCENSION MEQUON CLINIC
CITY OF MEQUON, WISCONSIN

PREPARED FOR:
MEQUON MEDICAL, LLC
833 E MICHIGAN ST., SUITE 1000
MILWAUKEE, WI

REVISION HISTORY

DATE	DESCRIPTION
02/7/20	INITIAL SUBMITTAL
09/18/20	PLAN REVISIONS
11/23/20	PLAN COMMISSION

DATE:
NOVEMBER 23, 2020

JOB NUMBER:
09016-787

DESCRIPTION:
PROPOSED
SITE PLAN

SHEET

C1.1



DEVELOPMENT SUMMARY	
Pr. Parcel Area:	171,118 s.f. (3.93 ac)
Floor Area Ratio:	17.5%
Parking:	131 spaces
Lot Coverage Calculations:	
Impervious Area:	
Buildings:	29,989 s.f. (0.69 ac)
Sidewalk:	8,692 s.f. (0.20 ac)
Pavement(on-site):	56,610 s.f. (1.30 ac)
Total:	95,291 s.f. (2.19 ac.) [55.7% total area]
Open Space:	
75,827 s.f. (1.74 ac) [44.3% total area/40% required min.]	

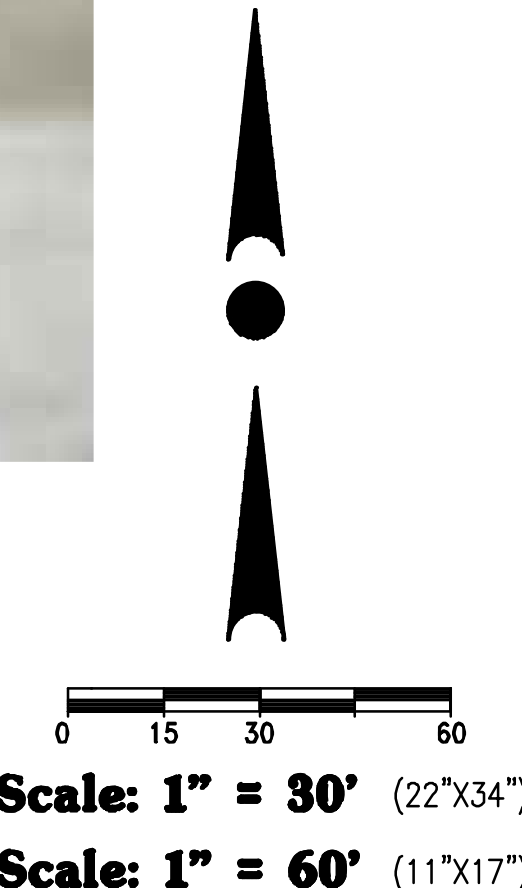
 CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

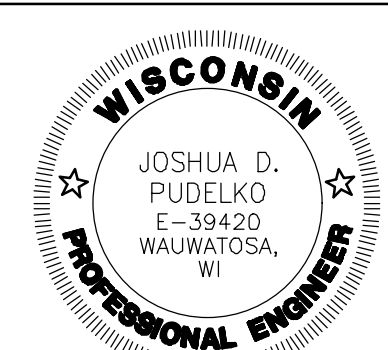
NOTE:
EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

PR. RIGHT TURN ONLY SIGN

EX. POWER POLE (TYP.) CONTRACTOR TO COORDINATE WITH WE ENERGIES IF RELOCATION IS REQUIRED

PR. PAVEMENT & CURB TO BE REPLACED IN KIND.





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Brookfield, WI 53045
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
ASCENSION MEQUON CLINIC
CITY OF MEQUON, WISCONSIN

PREPARED FOR:
MEQUON MEDICAL, LLC
833 E MICHIGAN ST., SUITE 1000
MILWAUKEE, WI

REVISION HISTORY

DATE	DESCRIPTION
02/7/20	INITIAL SUBMITTAL
09/18/20	PLAN REVISIONS
11/23/20	PLAN COMMISSION

DATE:

NOVEMBER 23, 2020

JOB NUMBER:

09016-787

DESCRIPTION:

GRADING PLAN

SHEET

C2.0

LEGEND:	
	- EXISTING CONTOUR
	- PROPOSED CONTOUR
	- PROPOSED SPOT ELEVATION
	- PROPOSED FLOW ARROW
FFE 900.0	- PROPOSED FIRST FLOOR ELEV.
FYG 895.0	- PROPOSED YARD GRADE

WET POND 15
BOTTOM=92.50
N.W.L.=97.50
H.W.L.=101.26
TOP=102.50
SPILLWAY=101.50

HIGHLAND ROAD

N. PORT WASHINGTON ROAD (C.T.H. "W")

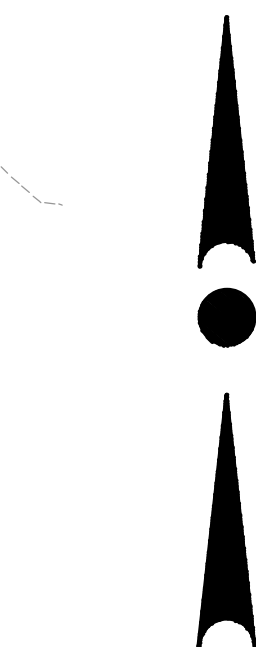
ASCENSION
PROPOSED BUILDING
(M.O.B.)
29,989 s.f.
FFE 109.00
FYG 108.5

FFE=109.00
FYG=108.5



CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

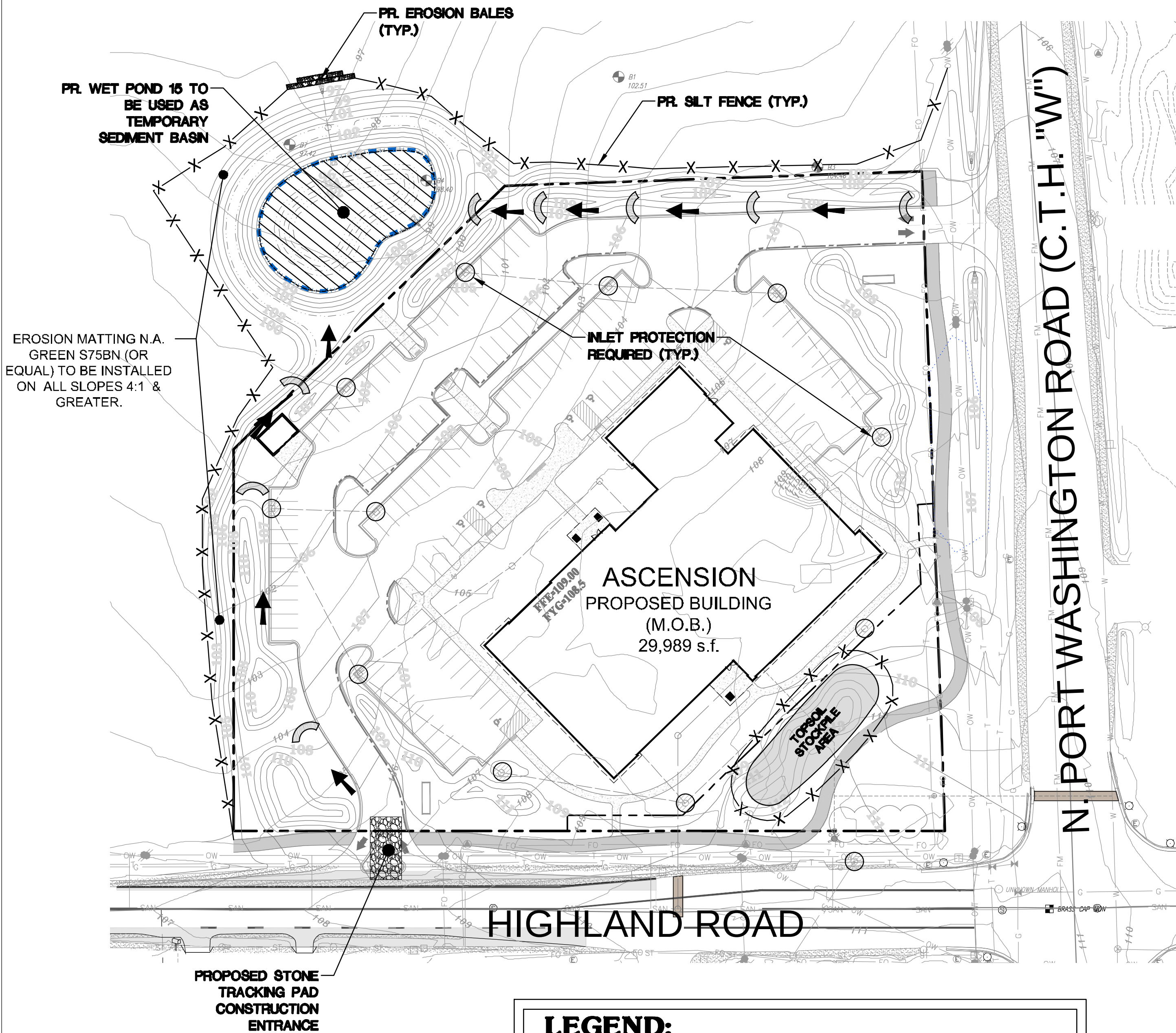
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0 15 30 60

Scale: 1" = 30' (22"x34")

Scale: 1" = 60' (11"x17")

**WINTER STABILIZATION PROVISIONS:**

IF FINAL SITE STABILIZATION OCCURS AFTER OCTOBER 15, CONTRACTOR SHALL UTILIZE ANIONIC POLYACRYLAMIDE AND TEMPORARY SEEDING, AS WELL AS, COORDINATE WITH CITY ENGINEER FOR LATE SEASON STABILIZATION REQUIREMENTS.

WISCONSIN DEPARTMENT OF NATURAL RESOURCES, CONSERVATION PRACTICE STANDARD:

- 1050 - LAND APPLICATION OF ANIONIC POLYACRYLAMIDE
- 1052 - NON-CHANNEL EROSION MAT
- 1055 - SEDIMENT BALE BARRIER (NON-CHANNEL)
- 1056 - SILT FENCE
- 1057 - STONE TRACKING PAD AND TIRE WASHING
- 1058 - MULCHING FOR CONSTRUCTION SITES
- 1059 - TEMPORARY SEEDING
- 1060 - STORM DRAIN INLET PROTECTION FOR CONST. SITES
- 1061 - DEWATERING
- 1062 - DITCH CHECK
- 1063 - SEDIMENT TRAP
- 1066 - TEMPORARY DIVERSION BERM

**NOTE:**

EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

LEGEND:

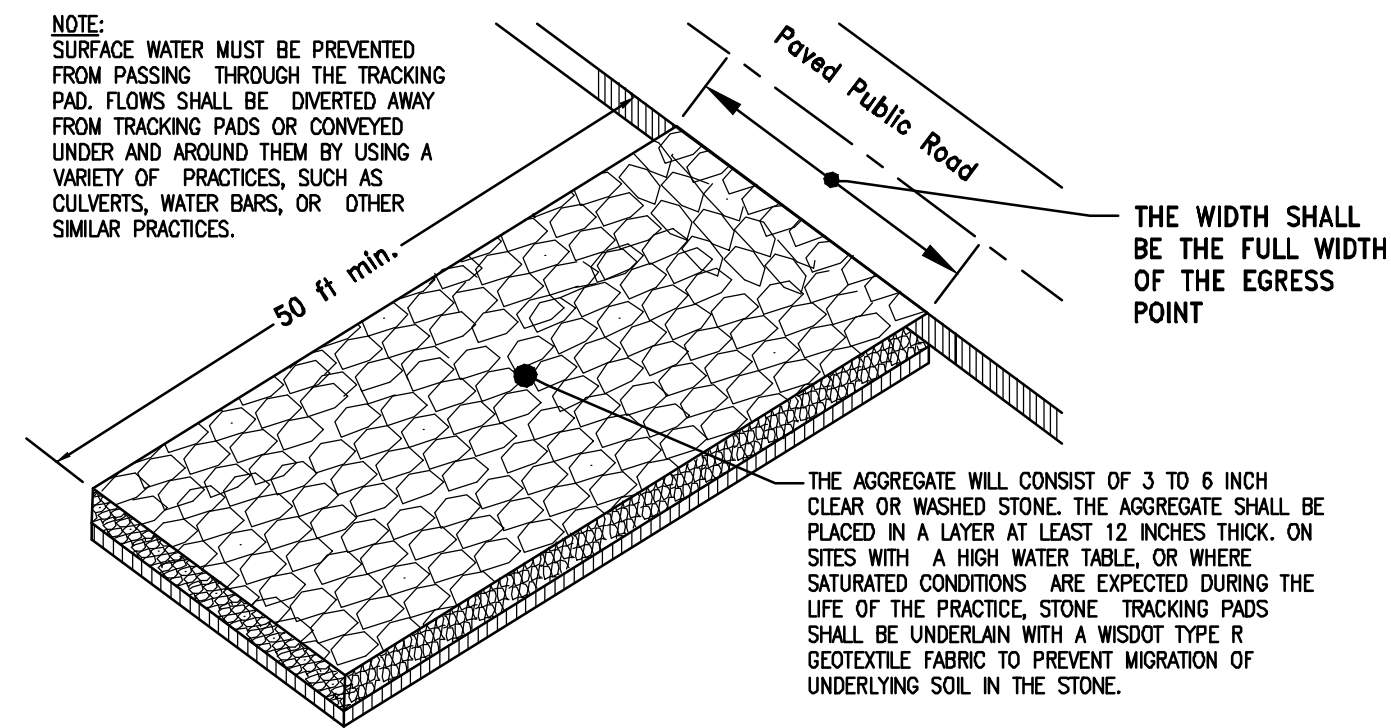
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SILT FENCE
- PROPOSED INLET PROTECTION
- PROPOSED SILT SOCK
- PROPOSED TRACKING PAD

TEMPORARY DEWATERING GEOTEXTILE BAG

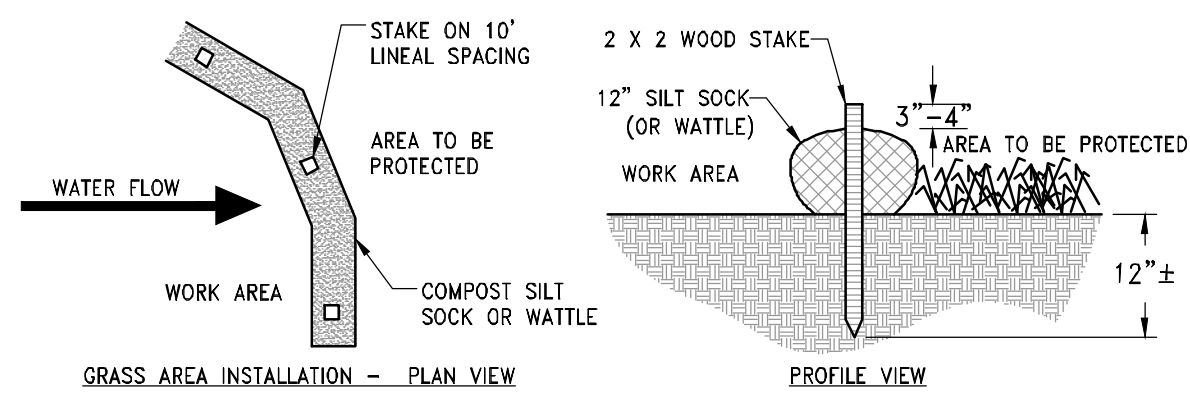
- IF DEWATERING IS REQUIRED, A GEOTEXTILE DEWATERING BAG MEETING THE SPECIFICATIONS IN THE TABLE TO THE RIGHT SHALL BE UTILIZED AS STATED ON THE EROSION CONTROL PLAN.
- REFER TO WDNR TECHNICAL STANDARDS 1061 AND MANUFACTURERS REQUIREMENTS FOR INSTALLATION AND MAINTENANCE REQUIREMENTS.
- CONTRACTOR MAY USE THRACE-LINQ, INC 275EX GEOTEXTILE BAG, OR FUNCTIONAL EQUIVALENT TO MEET TECHNICAL STANDARD REQUIREMENTS.
- CONTRACTOR MAY INSTALL HAY BALES AROUND DEWATERING BAG FOR STABILIZATION AS DICTATED BY SITE CONDITIONS.
- MAX FLOW RATE SHALL NOT EXCEED 70GPM
- GEOTEXTILE BAG SHALL BE LOCATED ON UNDISTURBED GROUND WITH ESTABLISHED VEGETATIVE COVER. DISCHARGES OF TREATED WATER FROM THE GEOTEXTILE FILTER BAG SHALL NOT FLOW OVER UNSTABILIZED GROUND.

Property	Test Method	Type I Value
Maximum Apparent Opening Sizes	ASTM D-4751	0.212 mm
Grab Tensile Strength	ASTM D-4632	200 lbs.
Mullen Burst	ASTM D-3786	350 psi
Permeability	ASTM D-4491	0.28 cm/sec
Fabric	Nominal Representative Weight	8 oz

NOTE: SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY FROM TRACKING PADS OR CONVEYED UNDER AND AROUND THEM BY USING A VARIETY OF PRACTICES, SUCH AS CULVERTS, WATER BARS, OR OTHER SIMILAR PRACTICES.

**CONSTRUCTION ENTRANCE DETAIL**

NO SCALE

**NOTES:**

- ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS
- REFER TO MANUFACTURERS AND/OR SUPPLIERS. SPECIFICATIONS FOR INSTALLATION RECOMMENDATIONS.
- ACTUAL LOCATION MAY BE FIELD ADJUSTED TO MINIMIZE DISTURBANCE TO EXISTING VEGETATION.

SILT SOCK INSTALLATION DETAIL

NO SCALE

EROSION CONTROL NOTES:

- THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
- EROSION CONTROL PLAN: PRIOR TO BEGINNING WORK, THE CONTRACTOR MAY BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN, DETAILING SPECIFIC MEASURES THAT WILL BE USED IN THE VARIOUS STAGES OF CONSTRUCTION FOR APPROVAL BY THE CITY ENGINEER.
- IMPLEMENTATION: THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL AFTER INITIAL EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
- EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - DIVERT UPSTREAM RUNOFF FROM FLOWING THROUGH THE CONSTRUCTION SITE.
 - PROTECT DOWNSTREAM OR ADJACENT WATERWAYS AND WETLANDS WITH SILT FENCE.
 - DELAY STRIPPING TOPSOIL UNTIL REQUIRED FOR CONSTRUCTION.
 - PLACE SILT SOCKS/STRAW WATTLES OR EROSION CONTROL BALES IN DITCHES AND OTHER DRAINAGE WAYS TO COLLECT SEDIMENT AND TO SLOW THE VELOCITY OF RUNOFF.
 - MAINTAIN EXISTING SEDIMENT BASIN AS DICTATED BY SITE CONDITIONS.
 - PROTECT STORM SEWER INLETS AND THE UPSTREAM END OF CULVERTS WITH SILT FENCE OR EROSION CONTROL BALES.
 - PROMPT REMOVAL OF EXCAVATED MATERIAL.
 - PROPER STORAGE OF BACKFILL AND BEDDING MATERIALS INCLUDING PLACING SILT FENCE OR EROSION CONTROL BALES ON THE DOWNSLOPE SIDES OF SPOIL PILES.
 - CONSTRUCTION OF TRACKING PAD TO CONSTRUCTION SITE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ROADWAYS.
 - PROMPT (SAME DAY) CLEANUP OF MATERIAL TRACKED ONTO ADJACENT STREETS.
 - TIMELY RESTORATION OF DAMAGE SURFACE AREAS.
 - ALL AREAS THAT WILL REMAIN DISTURBED AFTER OCTOBER 15, MUST BE TEMPORARY SEEDING AS OF THAT DATE.

5. TEMPORARY EROSION CONTROL MEASURES.

- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL MEASURES, WHERE EROSION IS LIKELY TO BE A PROBLEM, PRIOR TO BEGINNING WORK ON THOSE SECTION(S) OF THE PROJECT. TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL AFTER PERMANENT EROSION CONTROL, SUCH AS SEEDING OR SODDING, HAS BEEN ESTABLISHED.
- IN THE EVENT THE PERMANENT EROSION CONTROL MEASURES ARE NOT FULLY IMPLEMENTED IN CURRENT CONSTRUCTION SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY TEMPORARY EROSION CONTROL MEASURES UNTIL AFTER PERMANENT MEASURES HAVE BEEN COMPLETED IN THE FOLLOWING YEAR.

- ALL DISTURBANCE AREAS THAT REMAIN INACTIVE FOR SEVEN DAYS OR LONGER SHALL RECEIVE TEMPORARY SEEDING.

- TRENCH DEWATERING SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS.

- INSTALL SILT FENCE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD DETAILS

- ALL RIP RAP AT PIPE OUTLETS SHALL BE 3'x5" MEDIUM RIP RAP OVER TYPE R FABRIC PER WDOT SPECIFICATIONS UNLESS OTHERWISE DESIGNATED.

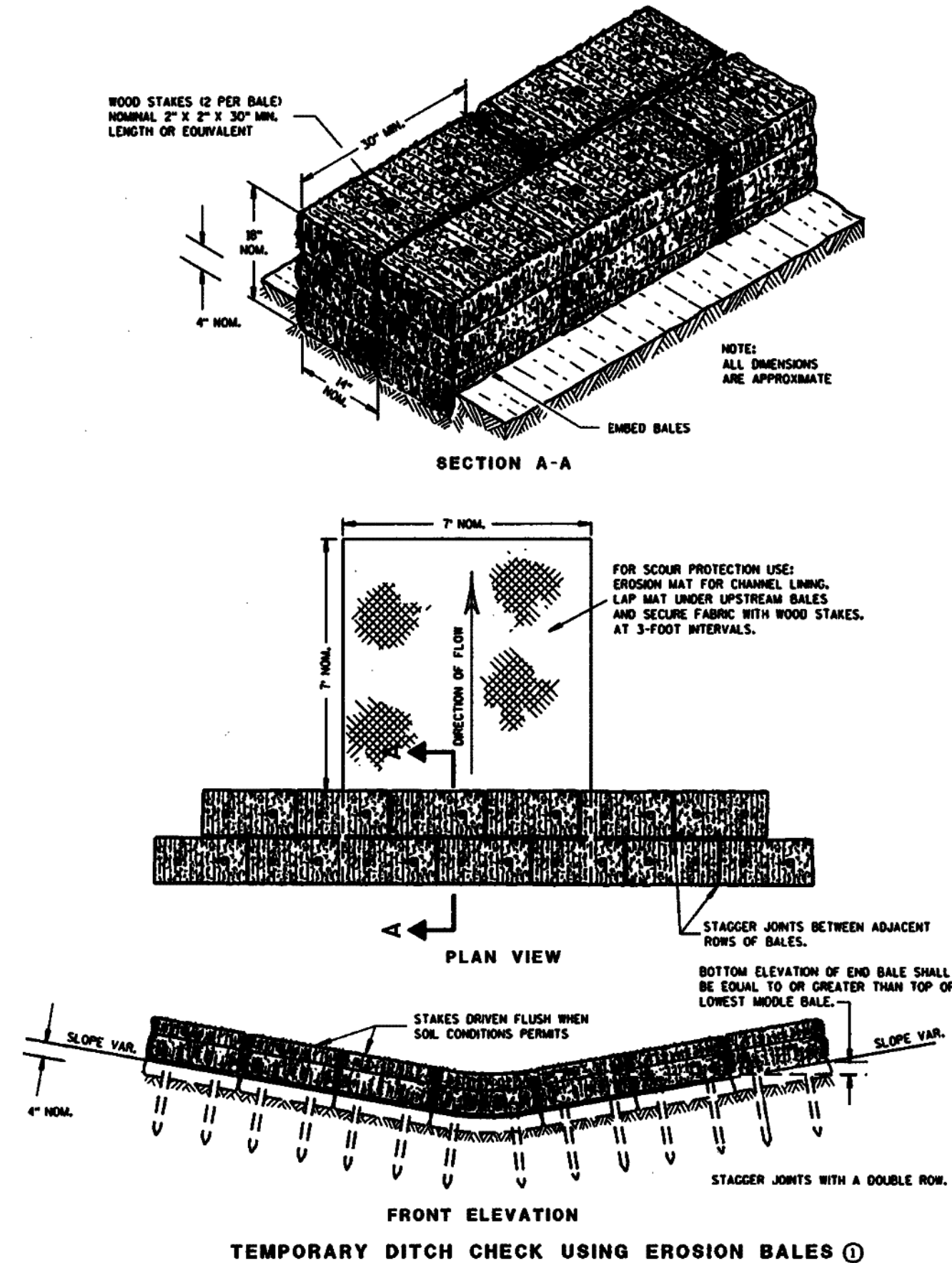
10. EROSION CONTROL INSPECTION AND MAINTENANCE

- INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER SITE RECEIVES 0.5" OF RAIN IN A 24-HOUR PERIOD DURING CONSTRUCTION.
- REPAIR OR REPLACE EROSION CONTROLS THAT ARE DAMAGED OR FAILING.

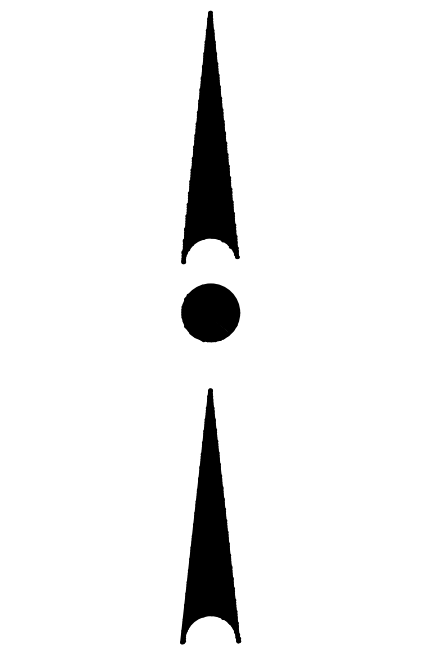
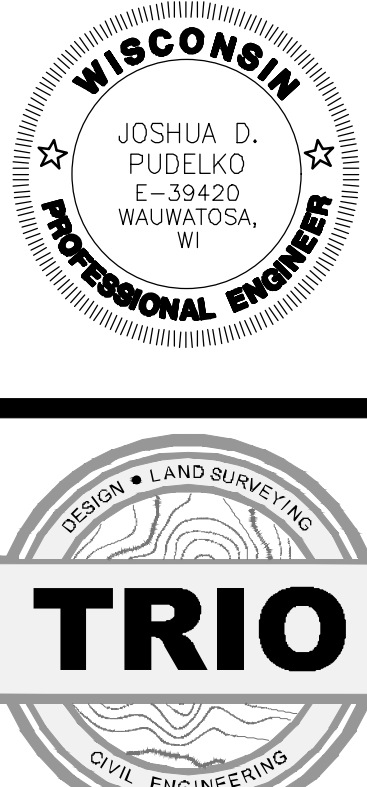
- ALL AREAS TO BE SEEDING AND MULCHED SHALL USE WDOT SEED MIXTURE NO. 20. MULCH SHALL APPLIED PER WDOT SPECIFICATIONS USING METHOD B FOR PLACEMENT.

- THE CONTRACTOR SHALL MAINTAIN AN APPROVED EROSION CONTROL PLAN ON SITE AT ALL TIMES.

- THE CITY OF MEQUON MAY TEMPORARILY SHUT DOWN THE PROJECT IF PROPER EROSION CONTROL IS NOT BEING FOLLOWED OR MAINTAINED

**CONSTRUCTION SEQUENCE PLAN**

- INSTALL PERIMETER SILT FENCE AND TRACKING PAD. PRIOR TO THE INSTALLATION OF THE TRACKING PAD, GRADE AREA AS REQUIRED TO MAINTAIN POSITIVE DRAINAGE. PROVIDE APPROPRIATE DITCH CHECK AND TEMPORARY STABILIZATION AS NECESSARY. PROVIDE TEMPORARY CULVERT AT CONSTRUCTION ENTRANCE TO MAINTAIN POSITIVE FLOW IN THE DIVERSION SWALES TO TEMPORARY SILT TRAP.
- CLEAR AND GRUB EXISTING VEGETATION CONCURRENT WITH STEP 1.
- CONSTRUCT SWALES AND STABILIZE WITH SEED AND BLANKET IMMEDIATELY AFTER COMPLETION, CONCURRENT WITH STEPS 4 & 5.
- INSTALL TEMPORARY SEDIMENT TRAP. INSTALL OVERFLOW SPILLWAY AND OUTLET STRUCTURE PER PLAN. (MAY OCCUR CONCURRENT WITH TOPSOIL STRIPPING AND INITIAL ROUGH GRADING) TEMPORARY GRADED SEDIMENT TRAP MAY BE REPLACED WITH PERMANENT AUS STORMWATER MANAGEMENT FACILITY STRUCTURE AT ANY POINT DURING CONSTRUCTION GIVEN ADEQUATE METHODS OF WATER CONVEYANCE IS PROVIDED TO THE INLET (I.E. GRADE/DIVERT RUNOFF TO INLETS). ALL SEDIMENT SHALL BE REMOVED FROM SYSTEM PRIOR TO DEMOLITION.
- STRIP TOPSOIL, STOCKPILE AND CREATE TEMPORARY DIVERSION BERM AND/OR DRAINAGE ROUTE AS INDICATED TO DIRECT SITE RUNOFF TO THE SEDIMENT TRAP. TEMPORARILY STABILIZE SEDIMENT TRAP & DIVERSION SWALES WITH TOPSOIL, SEED AND BLANKET IMMEDIATELY FOLLOWING CONSTRUCTION.
- INSTALL SILT FENCE AROUND STOCKPILES AS NOTED ON THIS PLAN.
- DEMOLISH CONCRETE. NOTE THAT DEMOLITION MAY COMMENCE CONCURRENT WITH STEPS 4 & 5.
- ROUGH GRADE SITE. ALL DISTURBED SOIL THAT IS TO GRADE AND OR IS TO BE LEFT DORMANT FOR MORE THAN 7 DAYS SHALL BE STABILIZED WITH SEED AND MULCH AND/OR BLANKET.
- INSTALL SANITARY SEWER, WATERMAIN AND STORM SEWER. NOTE THAT UTILITY INSTALLATION MAY COMMENCE CONCURRENT WITH SITE GRADING.
- BUILDING CONSTRUCTION MAY COMMENCE AS ALLOWED BY CITY BUILDING PERMIT (NON-SEQUENTIAL).
- FINISH GRADE SITE. RESPREAD TOPSOIL AND SEED, MULCH AND FERTILIZE OUTSIDE OF PAVEMENT AREAS UPON COMPLETION OF FINISH GRADING. INSTALL EROSION MATTING AS INDICATED ON PLAN AND AS NECESSARY TO STABILIZE SITE.
- INSTALL NEW GAS/ELECTRIC/TELEPHONE UTILITIES PER PLANS BY OTHERS.
- INSTALL STONE BASE, SIDEWALK, CURB AND PAVEMENT. PAVING, SIDEWALK AND CURB MAY BE PHASED TO COINCIDE WITH THE BUILDING CONSTRUCTION SCHEDULE.
- IF APPLICABLE, REMOVE TEMPORARY SEDIMENT TRAP WHEN AREA IS BEING PREPPED FOR PAVEMENT INSTALLATION.
- COMPLETE LANDSCAPING AND FINAL STABILIZATION AROUND BUILDINGS CONCURRENT WITH BUILDING CONSTRUCTION. IF FINALIZATION OF THE SITE DOES NOT OCCUR PRIOR TO OCTOBER 15TH, REFER TO WINTER STABILIZATION NOTE AND SPECIFICATIONS.
- REMOVE PERIMETER SILT FENCE AND REMOVE ALL ACCUMULATED SILT FROM UNDERGROUND DETENTION CHAMBER, INCLUDING CHAMBER SUMP. CLOSE OUT CONSTRUCTION SITE PERMITS ONCE THE SITE IS FULLY VEGETATED.

**Scale: 1" = 50' (22"x34")****Scale: 1" = 100' (11"x17")**

4100 N Calhoun Road
Brookfield, WI 53045
PHONE: (262) 790-1480
FAX: (262) 790-1401
EMAIL: info@trioeng.com

PROJECT:
ASCENSION MEQUON CLINIC
CITY OF MEQUON, WISCONSIN

PREPARED FOR:
MEQUON MEDICAL, LLC
833 E MICHIGAN ST., SUITE 1000
MILWAUKEE, WI

REVISION HISTORY

DATE	DESCRIPTION
02/7/20	INITIAL SUBMITTAL
09/18/20	PLAN REVISIONS
11/23/20	PLAN COMMISSION

DATE:**NOVEMBER 23, 2020****JOB NUMBER:****09016-787****DESCRIPTION:**

EROSION
CONTROL
PLAN

SHEET**C2.1**



4100 N Calhoun Road
Brookfield, WI 53045
PHONE: (262) 790-1480
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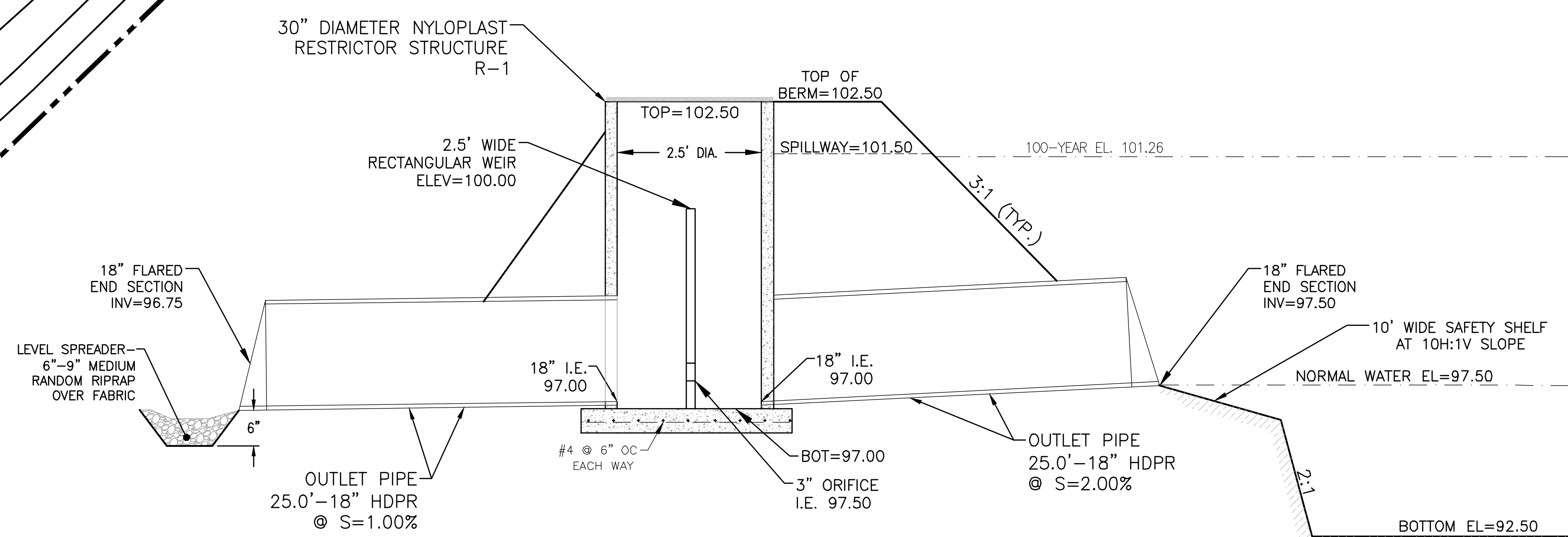
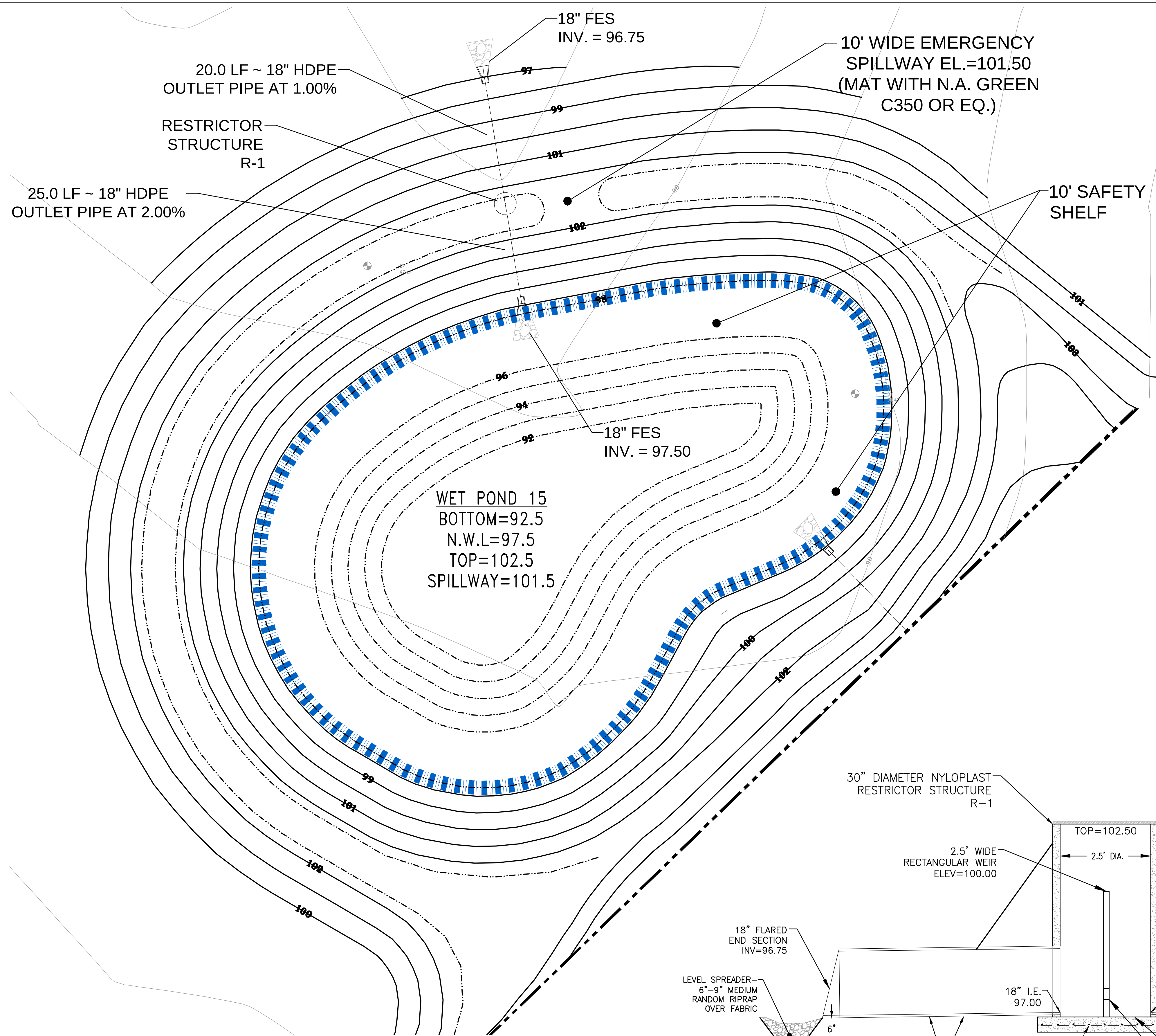
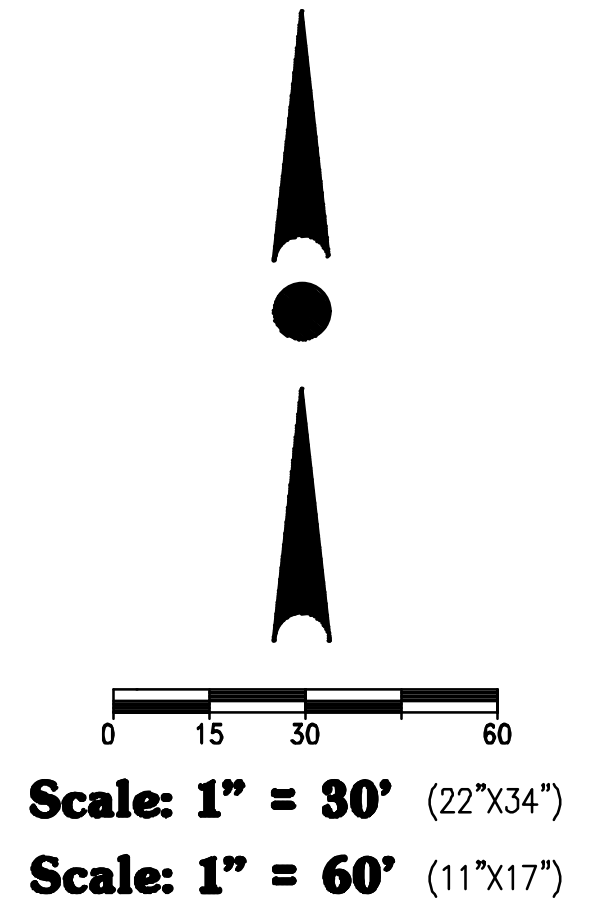
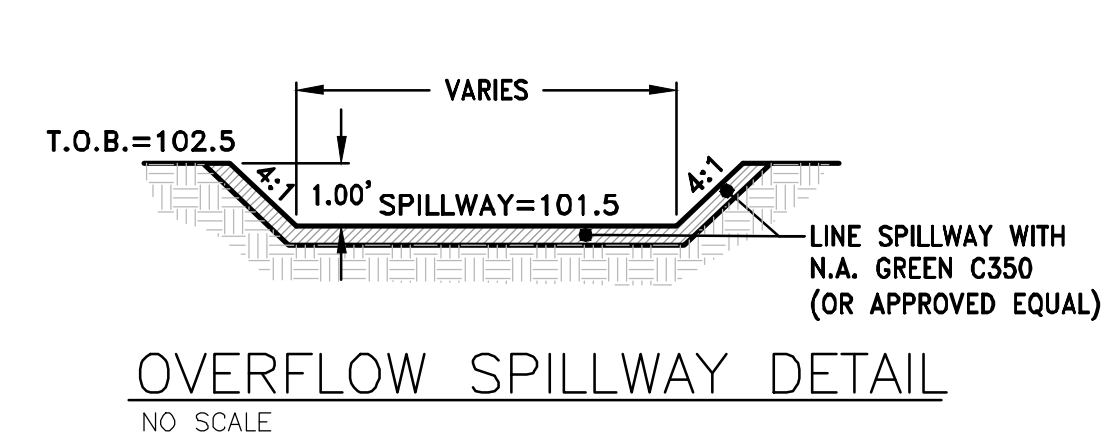
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11/23/20	PLAN COMMISSION

DATE:
NOVEMBER 23, 2020

JOB NUMBER:
09016-787

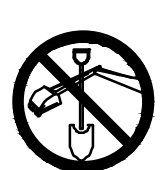
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POND PLAN

SHEET
C2.2



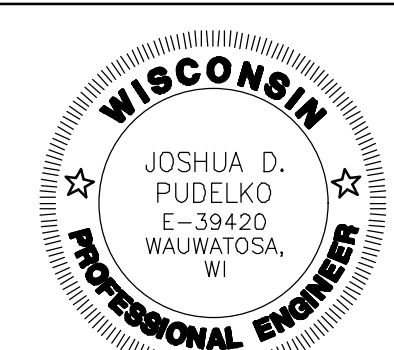
RESTRICTOR STRUCTURE R-1 DETAIL
NO SCALE

WET POND 15 DETAIL
NO SCALE

 CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE:
EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

H:\C700\787-09016-01\CONSTRUCTION PLANS\CIVIL PLAN SET - ASCENSION-22X34.DWG



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PROJECT:
ASCENSION MEQUON CLINIC
CITY OF MEQUON, WISCONSIN

PREPARED FOR:
MEQUON MEDICAL, LLC
833 E MICHIGAN ST., SUITE 1000
MILWAUKEE, WI

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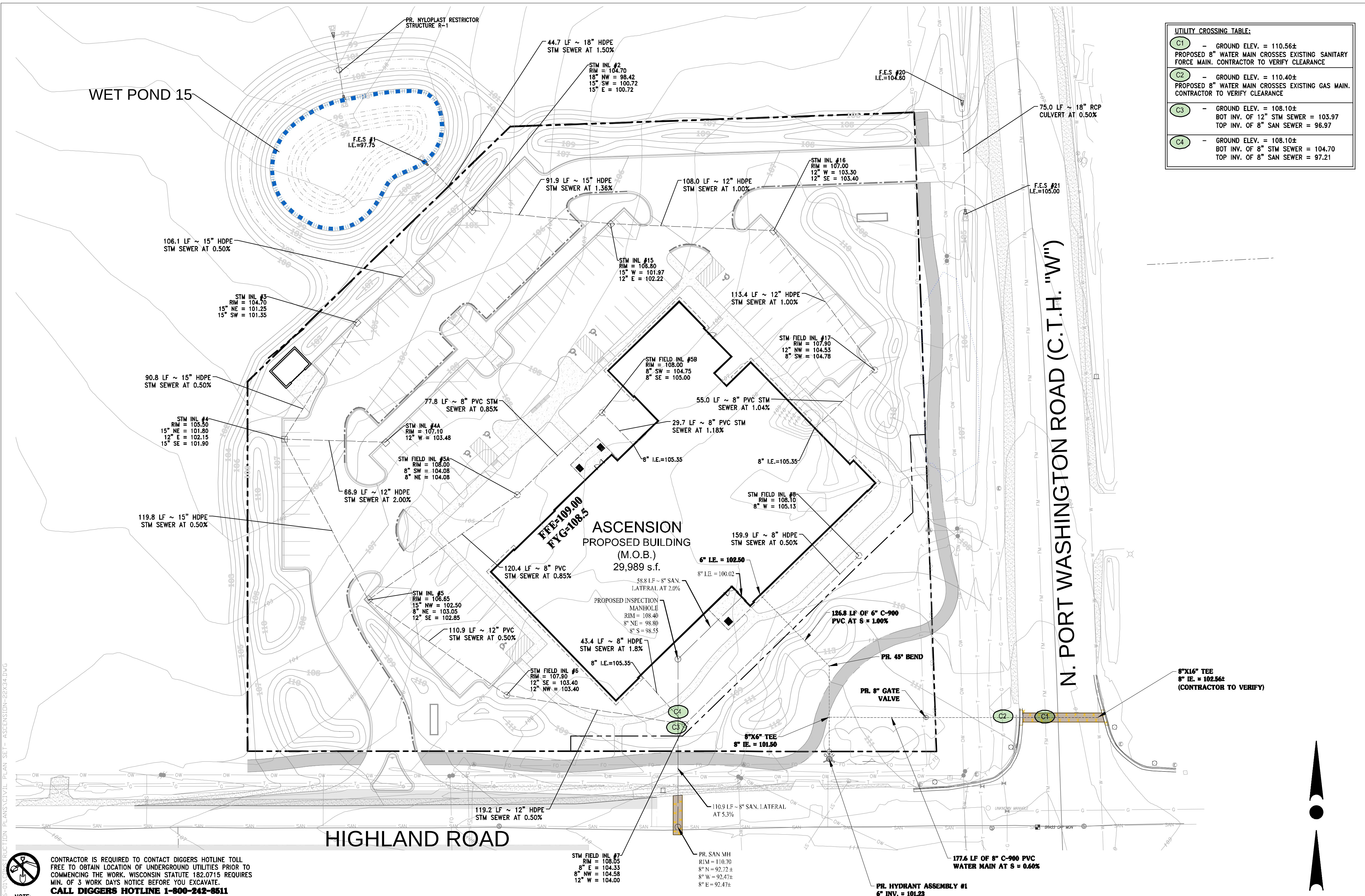
JOB NUMBER:
09016-787

DESCRIPTION:

UTILITY PLAN

SHEET

C3.0



COMPLIANT DOCUMENTATION:

THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED.

- STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, 6TH EDITION (SSSWCW)
- THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
- WDNR STORMWATER RUNOFF TECHNICAL STANDARDS.
- WISDOT PAL APPROVED EROSION CONTROL MEASURES LIST, LATEST EDITION.
- CITY OF MEQUON DEVELOPMENT STANDARDS, LATEST EDITION, INCLUDING UNPUBLISHED UPDATES.

CONTRACTOR RESPONSIBILITY:

-EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD SURVEY. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

-THE LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS.

-THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR(S) TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS WORK. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL REQUIRED PERMITS, UNLESS OTHERWISE SPECIFIED.

-THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AS CONSTRUCTION ACTIVITIES ARE COMPLETED TO PROVIDE CONSTRUCTION OVERSIGHT AND INSPECTION IN ACCORDANCE WITH THE COSTRUCTION INSPECTION PLAN.

-THE OWNER WILL PROVIDE ALL SURVEYING AND CONSTRUCTION STAKING FOR THIS CONTRACT. THE CONTRACTOR SHALL EXERCISE CARE AND DILIGENCE IN PROTECTING THE SAME. ANY EXPENSE INCURRED FOR ADDITIONAL RESTAKING CAUSED BY CONTRACTOR'S NEGLECT MAY BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM THE SUMS DUE HIM UNDER THIS CONTRACT.

-ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

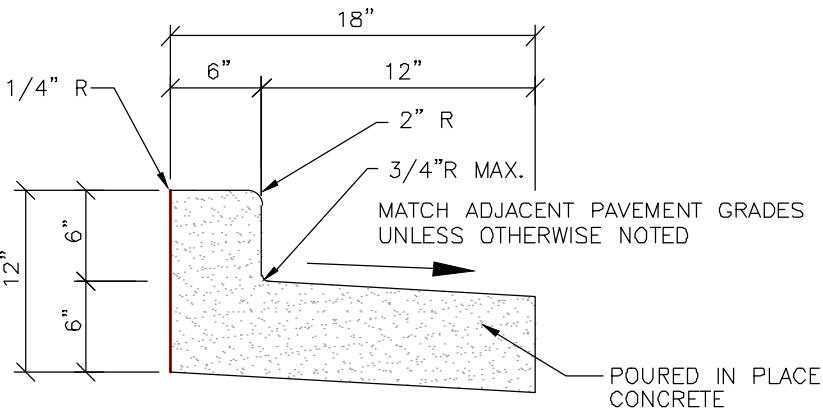
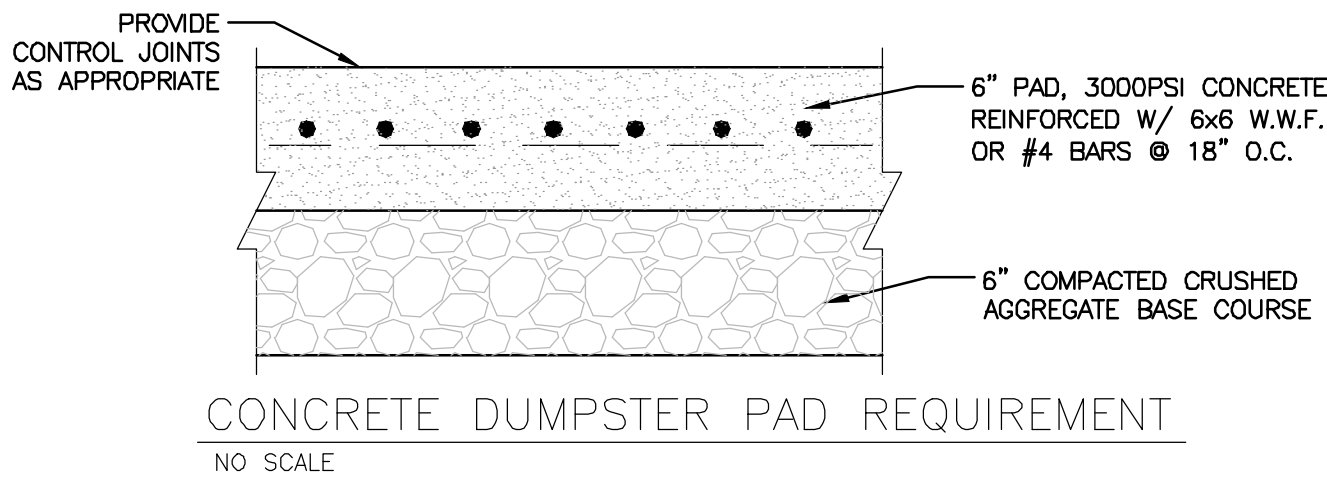
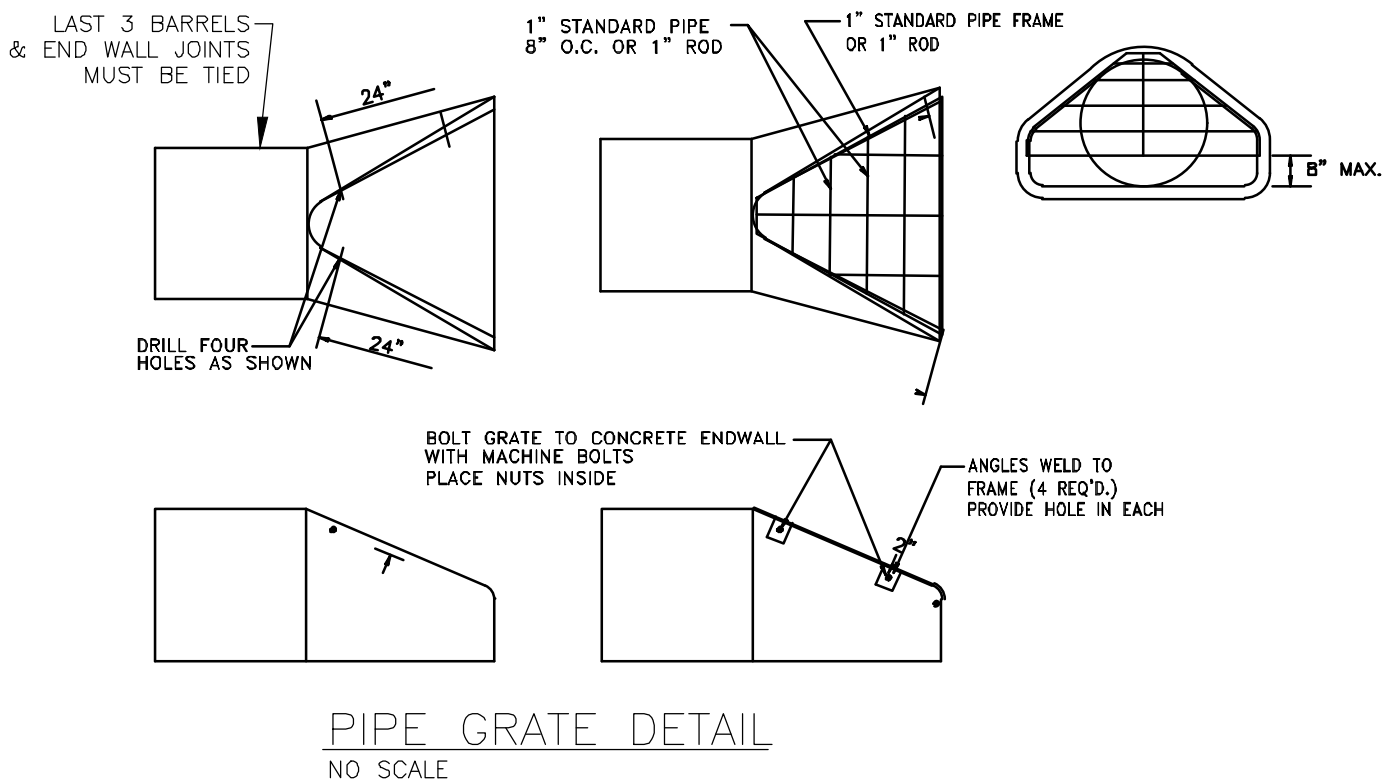
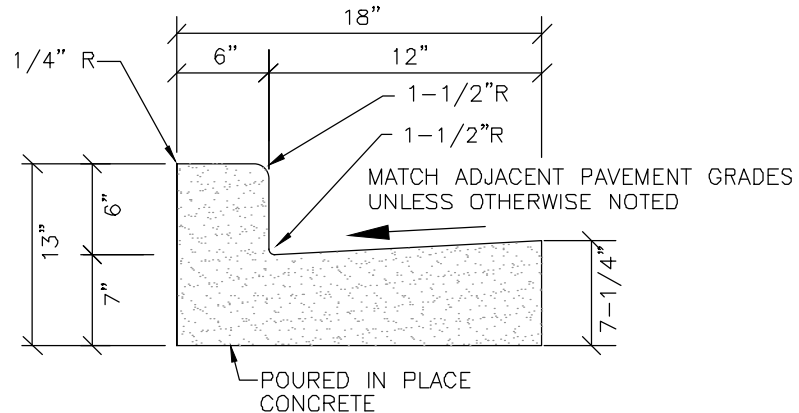
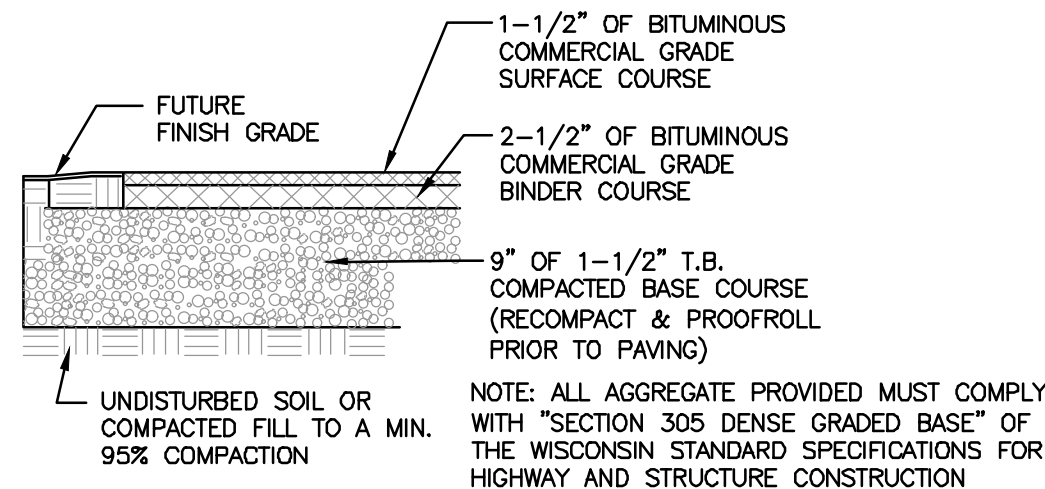
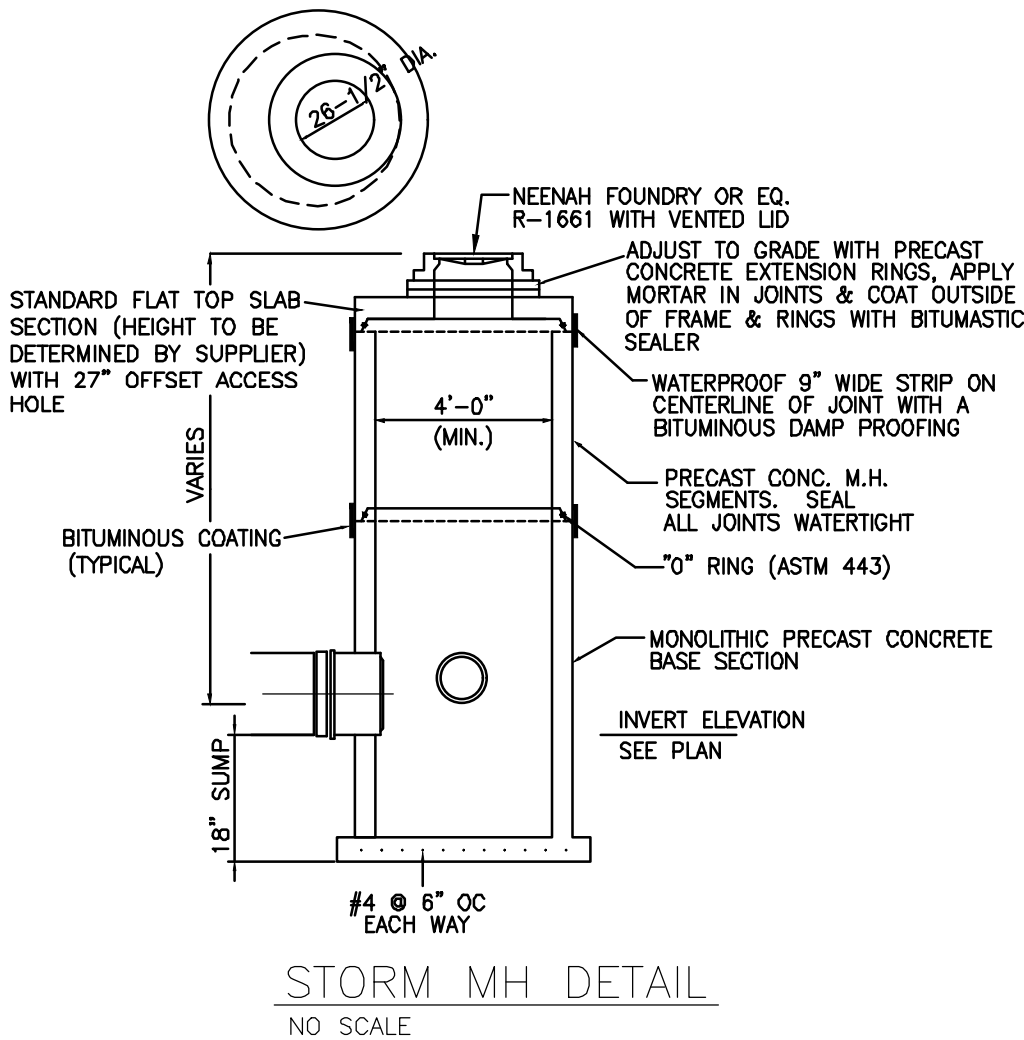
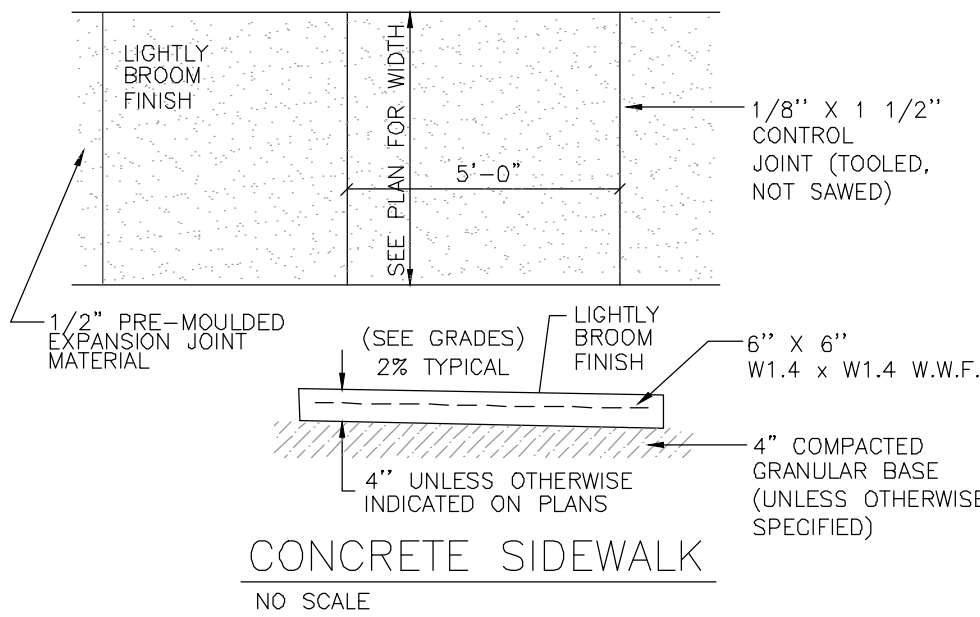
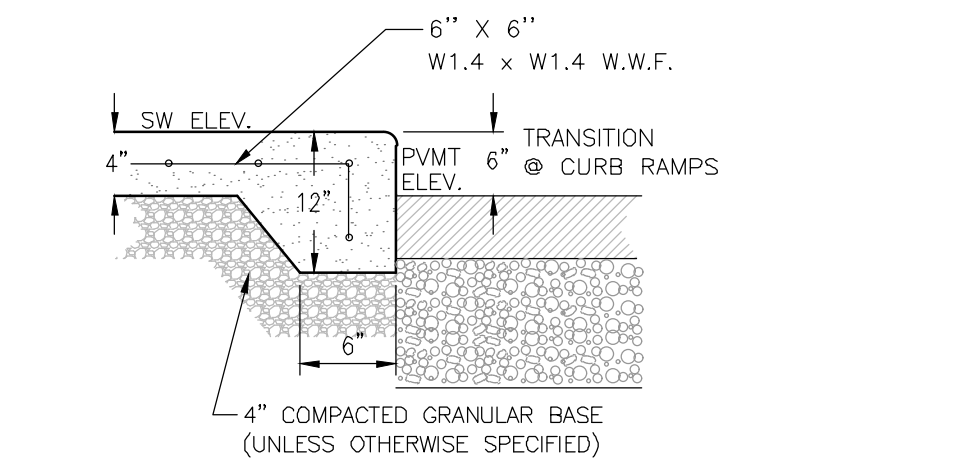
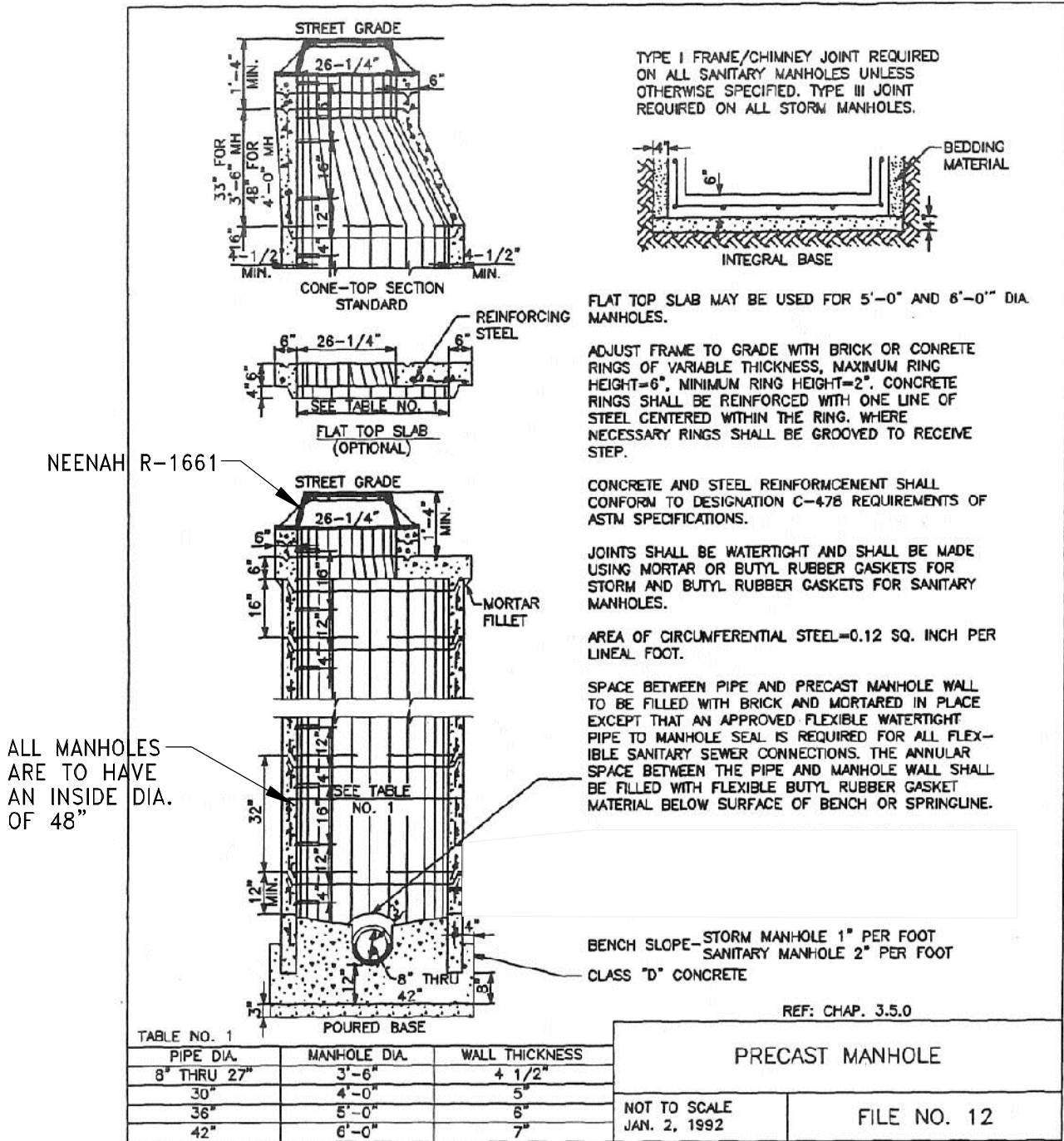
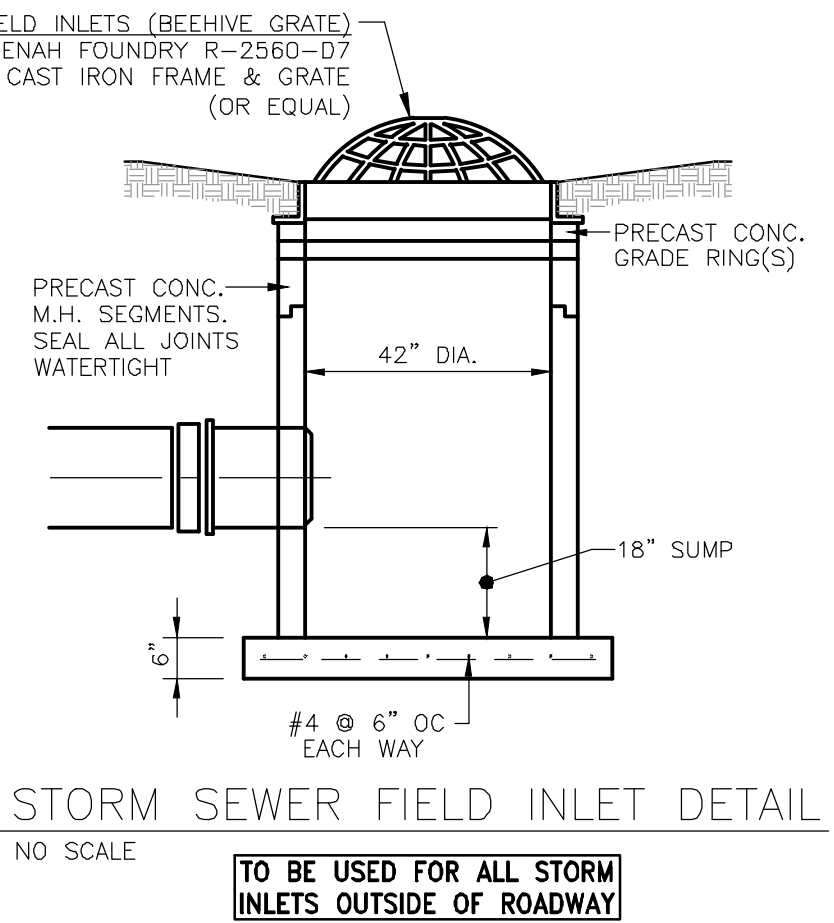
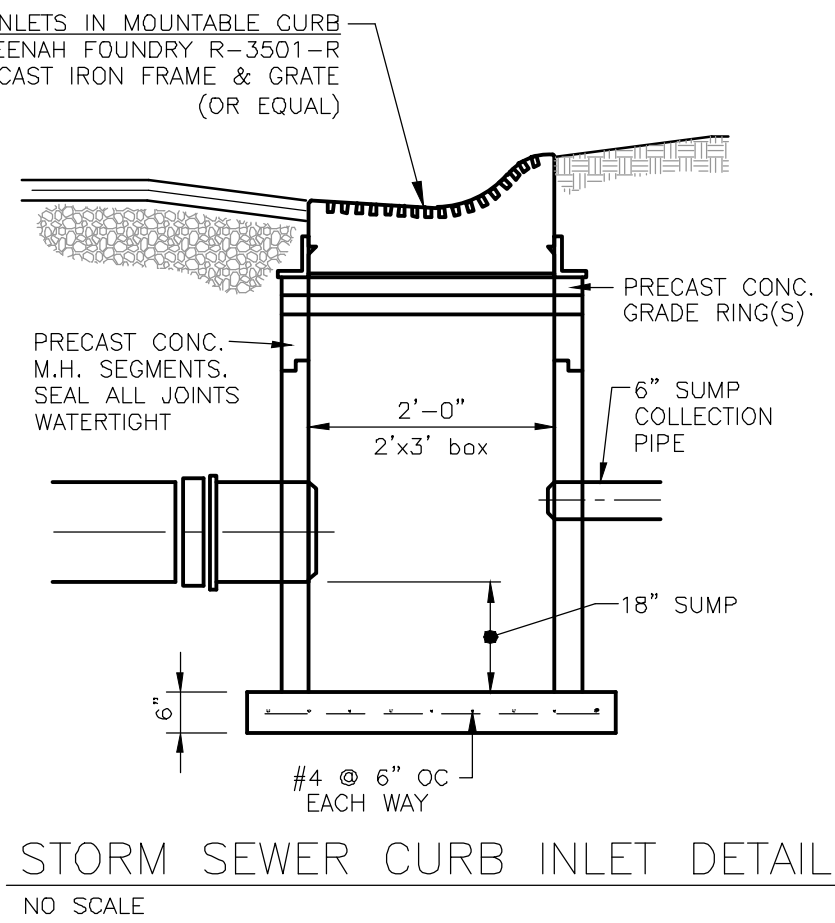
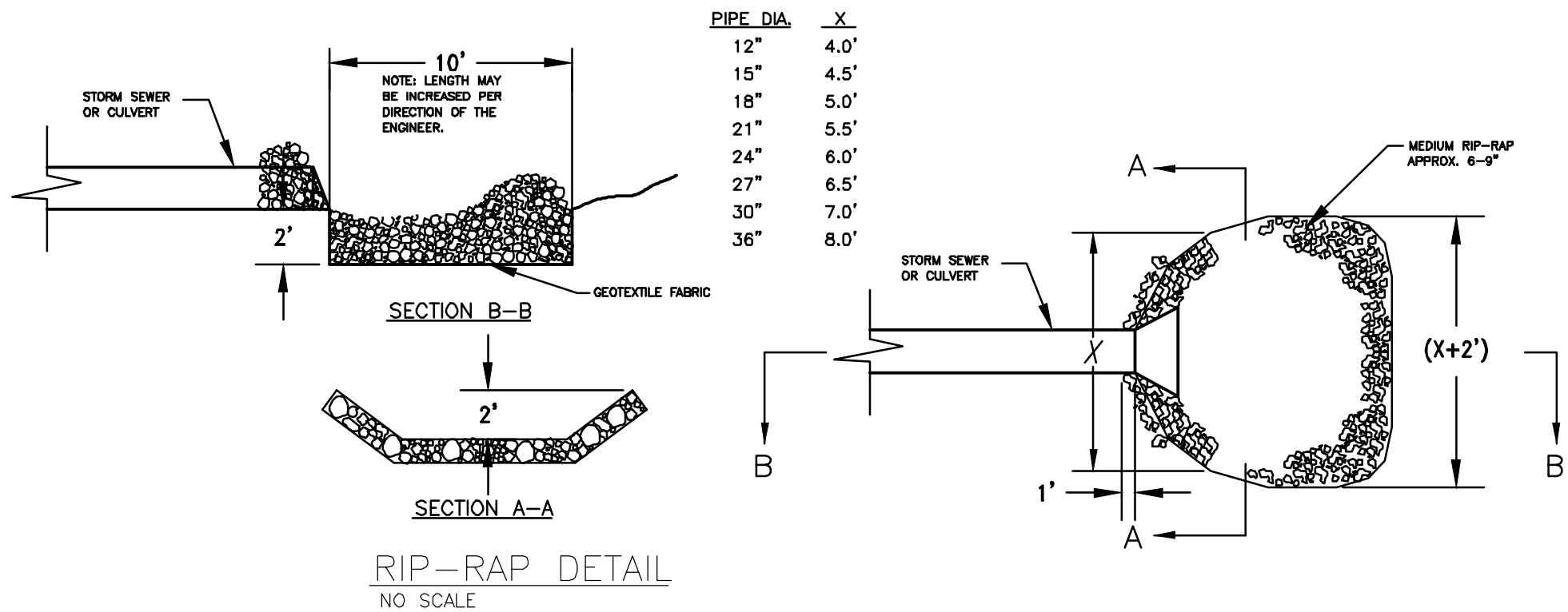
-CONTRACTOR SHALL BE PREPARED FOR DEWATERING CONDITIONS BY HAVING APPROPRIATE PUMPS AND FILTER BAGS ONSITE FOR DEWATERING AND REMOVAL OF ALL SEDIMENT PER VILLAGE, COUNTY AND WDNR REQUIREMENTS PER TECHNICAL STANDARD 1061.

TRAFFIC CONTROL:

-PUBLIC ROADS SHALL NOT BE FULLY CLOSED TO TRAFFIC AT ANY TIME. ALL INGRESS AND EGRESS TRAFFIC TO THE PROJECT SHALL BE LIMITED TO THE GRAVEL ENTRANCE TO THE PROPERTY.

CONSTRUCTION NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, STATE OF WISCONSIN, LATEST EDITION, UNLESS OTHERWISE CALLED FOR ON THE PLANS, SPECIFICATIONS OR SPECIAL PROVISIONS.
- ALL EROSION CONTROL MEASURES SPECIFIED ON THIS PLAN SHALL MEET THE DESIGN CRITERIA, STANDARDS AND SPECIFICATIONS AS SET FORTH IN THE DEPARTMENT OF NATURAL RESOURCES WISCONSIN BEST MANAGEMENT PRACTICE HANDBOOK AND TECHNICAL STANDARDS.
- ALL EROSION CONTROL DEVICES (I.E., SILT FENCE, SILT SOCK, GRAVEL ENTRANCE, SILTATION BASIN, ETC.), SHALL BE INSTALLED PRIOR TO COMMENCING ANY GRADING OR UTILITY CONSTRUCTION. GRADING ASSOCIATED WITH INSTALLATION OF EROSION OR SEDIMENTARY PRACTICES MAY OCCUR CONCURRENTLY WITH INSTALLATION OF PRACTICES.
- ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME. REFER TO THE CONSTRUCTION SEQUENCING PLAN FOR ADDITIONAL INFORMATION.
- THE OWNER IS RESPONSIBLE FOR OBTAINING A GRADING AND/OR EROSION CONTROL PERMIT (OR ANY OTHER APPLICABLE PERMITS) PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE, ALL CITY UTILITY DEPARTMENTS, AND GOVERNMENT UNITS WHOSE PROPERTY MAY BE AFFECTED BY THE CONTRACTOR'S OPERATIONS AT LEAST THREE (3) DAYS BEFORE BREAKING GROUND. DIGGERS HOTLINE NUMBER IS 1-800-242-8511.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE PROJECT AND PUBLIC ROADWAYS DURING CONSTRUCTION PER THE REQUIREMENTS SET FORTH BY THE LOCAL AND COUNTY AGENCIES. STREETS SHALL BE KEPT FREE OF SILT OR DIRT TRACKED FROM AREAS UNDER CONSTRUCTION BY SWEEPING OR OTHER APPROPRIATE MEASURES. DUST GENERATED BY CONSTRUCTION ACTIVITIES SHALL BE MINIMIZED BY USE OF WATERING, CALCIUM CHLORIDE SURFACE TREATMENT, CONSTRUCTION SCHEDULING OR OTHER APPROPRIATE METHODS.
- INLETS SHALL BE PROTECTED WITH AN EROSION BARRIER MEETING WDNR TECHNICAL STANDARD 1060 UNTIL THE AREA HAS BEEN STABILIZED. FREQUENT INSPECTION AND TIMELY MAINTENANCE IS REQUIRED.
- UPON COMPLETION OF THE WORK AS SPECIFIED, RESPREAD A MINIMUM OF FOUR (4") INCHES OF SALVAGED TOPSOIL OVER ALL DISTURBED AREAS AND PROVIDE SEED, FERTILIZER AND MULCH PER THE STANDARD SPECIFICATIONS.
- ALL DISTURBED AREAS SHALL BE REVEGATATED WITHIN SEVEN DAYS AFTER BEING DISTURBED USING THE SEED MIX SPECIFIED ON THE PLANS.
- ALL EROSION CONTROL DEVICES SHALL BE ROUTINELY INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HOURS OF A RAINFALL GREATER THAN 0.5 INCHES. CONTRACTOR IS REQUIRED TO PERFORM INSPECTIONS, KEEP A LOG, AND REPAIR BMP'S AS NEEDED.
- REFER TO EROSION CONTROL PLAN FOR SITE EROSION CONTROL ELEMENTS, REQUIREMENTS.



WISCONSIN

JOSHUA D. PUDELKO

E-39420

WAUWATOSA, WI

PROFESSIONAL ENGINEER

DESIGN • LAND SURVEYING

CIVIL ENGINEERING

TRIO

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Brookfield, WI 53045

PHONE: (262) 790-1480

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EMAIL: info@trioeng.com

PROJECT:
ASCENSION MEQUON CLINIC
CITY OF MEQUON, WISCONSIN

PREPARED FOR:
MEQUON MEDICAL, LLC
833 E MICHIGAN ST., SUITE 1000
MILWAUKEE, WI

REVISION HISTORY	
DATE	DESCRIPTION
02/17/20	INITIAL SUBMITTAL
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DATE:
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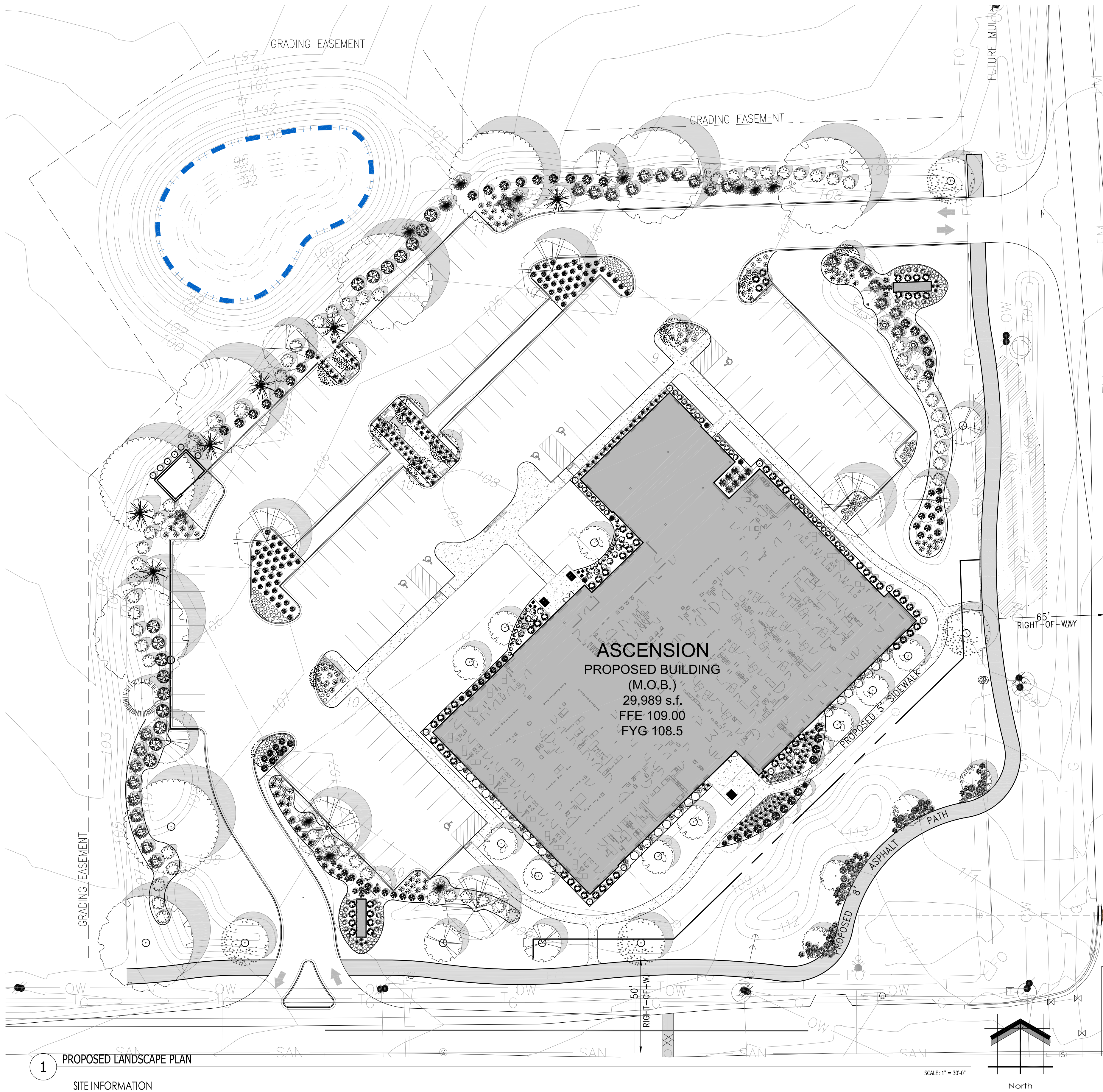
JOB NUMBER:
09016-787

DESCRIPTION:
CONSTRUCTION
DETAILS

SHEET

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Packet Pg. 58



UNDERGROUND SEWER AND UTILITY INFORMATION AS SHOWN IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. THE ACCURACY OF WHICH CAN NOT BE GUARANTEED OR CERTIFIED TO. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS SURVEY ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

TO OBTAIN LOCATION OF PARTICIPANT'S UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN CALL THE MILWAUKEE UTILITY ALERT NETWORK (800)-242-8511, (262) 432-7910 (877) 505-9192 www.DiggersHotline.com OR



TO OBTAIN LOCATION OF PARTICIPANT'S UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
DIGGERS HOT LINE
WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM OF 3 DAYS NOTICE BEFORE YOU EXCAVATE. (NOT INCLUDING SATURDAY, SUNDAY OR LEGAL HOLIDAYS)

LANDSCAPE PLAN GENERAL NOTES

PLANT MATERIAL SHOWN ON LANDSCAPE PLAN IS DEPICTED AT MATURE GROWTH.

- AT LEAST SEVENTY-TWO HOURS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AS GIVEN BY THE ELECTRIC, GAS, TELEPHONE, WATER, SEWER, AND CABLE TELEVISION COMPANIES, UTILITIES OR ENTITIES. REVIEW WITH OWNER'S REPRESENTATIVE SITE MECHANICAL, SITE ELECTRICAL AND LIGHTING, SITE GRADING AND DRAINAGE, SITE IRRIGATION AND ALL OTHER DRAWINGS PERTAINING TO UNDERGROUND UTILITY LOCATIONS. RECORD SET OF INFORMATION THE SAME AS IN POSSESSION OF OWNER'S REPRESENTATIVE. ALSO REVIEW OWNER'S "MARK SETS" OF ALL OF THESE DRAWINGS IN POSSESSION OF THE CONTRACTOR OR OWNER. MARK ALL SUCH UTILITIES ON THE SITE PRIOR TO COMMENCING. COORDINATE WITH OWNER BEFORE AND DURING CONSTRUCTION. REPAIR ANY DAMAGE TO ANY SYSTEM THAT IS CAUSED BY LANDSCAPE CONTRACTOR AT NO COST TO OWNER.
- ALL PLANTINGS SPECIFIED FOR THE MEQUON MEDICAL LLC PROJECT PLANTING TABLES SHALL COMPLY WITH STANDARDS AS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK ANSI Z60.1 2014 AND ANSI STANDARDS FOR PLANTING 2012.
- ALL DEVIATIONS FROM THE APPROVED MEQUON MEDICAL LLC PROJECT PLANS SHALL BE NOTED ON THE RECORD DRAWINGS BY THE CONTRACTOR AND MAY BE EXECUTED ONLY WITH PRIOR APPROVAL FROM THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE. VERBAL AGREEMENTS OR REVISIONS WITHOUT A CHANGE ORDER WILL NOT BE RECOGNIZED BY LANDSCAPE ARCHITECT AND OWNER.
- ALL PLANTS MUST BE BID AND SELECTED PER THE SPECIES SPECIFIED ON THE PLANS. ANY SPECIES SUBSTITUTIONS MUST BE APPROVED IN WRITING BY LANDSCAPE ARCHITECT. THE SIZES OF PLANT MATERIAL LISTED HEREIN IS A MINIMUM ACCEPTABLE SIZE. ADDITIONALLY, IF EXCESSIVE PRUNING REDUCES THE CROWN THE PLANT SHALL BE REPLACED.
- PROTECT PUBLIC FROM CONSTRUCTION WITH BARRIERS AND BARRICADES.
- ALL AREAS THAT WERE DISTURBED DURING CONSTRUCTION AND AREAS NOT COVERED WITH PAVEMENT, BUILDING, PLANTING BEDS, OR TREE PITS ARE TO BE TOPSOILED 3" DEEP (MIN.) AND SHALL BE SODDED/SEEDED WITH SPECIFIED LAWN GRASS. LANDSCAPE CONTRACTOR SHALL INCLUDE COST PER SQUARE YARD FOR ADDITIONAL SEED OPERATIONS AS MAY BE POSSIBLY REQUIRED TO REESTABLISH ADJACENT TURF GRASS AREAS WHICH MAY BECOME DAMAGED DURING THE CONSTRUCTION PROCESS OR TO REPAIR DAMAGE DONE BY OTHERS.
- CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, AND PLANTS NECESSARY FOR PROPER PLANTING AND INSTALLATION OF ALL LANDSCAPE MATERIAL.
- QUANTITIES ON PLANT MATERIALS LIST ARE FOR CONVENIENCE OF BIDDING ONLY. CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOWN ON LANDSCAPE PLANS AND COVERAGE OF ALL AREAS DELINEATED. THE PLANS ARE TO SUPERSEDE THE PLANT LIST IN ALL CASES.
- CONTRACTOR IS RESPONSIBLE FOR ALL ESTIMATING AND BIDDING, ALL AREAS, QUANTITIES MATERIALS SHOULD BE FIELD VERIFIED WITH SITE CONDITION.
- WHERE DISCREPANCIES OCCUR BETWEEN THE LANDSCAPE PLANS AND/OR ARCHITECTURAL AND/OR THE CIVIL DRAWINGS (AND ANY OTHER SITE DRAWINGS) THE DISCREPANCIES MUST BE BROUGHT TO THE LANDSCAPE ARCHITECTS ATTENTION FOR COORDINATION AND RESOLUTION.
- ALL DISEASED, NOXIOUS OR INAPPROPRIATE MATERIALS SHALL BE REMOVED FROM THE PROPOSED SITE PRIOR TO THE START OF CONSTRUCTION AND DURING THE MAINTENANCE PERIOD.
- GENERAL CONTRACTOR SHALL LEAVE THE SITE FREE OF CONSTRUCTION DEBRIS.
- ALL LAWN AND PLANTING AREAS SHALL SLOPE TO DRAIN A MINIMUM OF 2% UNLESS NOTED OTHERWISE AND REVIEWED WITH OWNER'S REPRESENTATIVE FOR FINAL APPROVAL.
- FINISH GRADES FOR SHRUB AND GROUND COVER AREAS SHALL BE HELD 1" BELOW TOP OF ADJACENT PAVEMENTS AND CURBS, UNLESS NOTED OTHERWISE ON THE PLANS. REFER TO LSP1.2 FOR FURTHER INFORMATION.
- ALL PERENNIAL, ANNUAL AND GROUND COVER AREAS TO RECEIVE A BLEND OF ORGANIC SOIL AMENDMENTS PRIOR TO PLANTING. TILL THE FOLLOWING MATERIALS INTO EXISTING TOPSOIL TO A DEPTH OF APPROXIMATELY 8". A DEPTH OF 12" IN TREE PITS. PROPORTIONS AND QUANTITIES MAY REQUIRE ADJUSTMENT DEPENDING ON THE CONDITION OF EXISTING SOIL. REFER TO LSP1.2 FOR FURTHER INFORMATION.
PER EVERY 100 SQUARE FEET ADD: ONE - 2 CUBIC FOOT BALE OF PEAT MOSS, 2 POUNDS OF 5-10-5 GARDEN FERTILIZER, 1/4 CUBIC YARD OF COMPOSTED MANURE OR OTHER COMPOSTED, ORGANIC MATERIAL.
- ALL SHRUBS TO BE POCKET PLANTED WITH A 50/50 MIX OF COMPOSTED, ORGANIC MATERIAL AND EXISTING SOIL. INSTALL TOPSOIL INTO ALL BEDS AS NEEDED TO ACHIEVE PROPER GRADE. REMOVE ALL EXCESSIVE GRAVEL, CLAY AND STONES. REFER TO LSP1.2 FOR FURTHER INFORMATION.
- PLANT ALL TREES SLIGHTLY HIGHER THAN FINISHED GRADE AT ROOT FLARE. BACK FILL HOLE WITH 2/3 EXISTING TOPSOIL AND ORGANIC SOIL AMENDMENTS SPECIFIED IN NOTE 15. AVOID ANY AIR POCKETS. DISCARD ANY GRAVEL CLAY OR STONES. REFER TO LSP1.2 FOR FURTHER INFORMATION.
- ALL TREES TO BE INSTALLED, STAKED AND GUYED ACCORDING TO DETAILS. REFER TO ANSI STANDARDS FOR PLANTING 2012 AND DETAILS ON LSP1.2 FOR FURTHER INFORMATION.
- PROVIDE A 4'-0" - 5'-0" DIAMETER MULCH RING AT THE ROOT BALL FLARE OF ALL LAWN TREES.
- ALL PLANTINGS TO BE WATERED AT THE TIME OF PLANTING, THROUGHOUT CONSTRUCTION AND UPON COMPLETION OF PROJECT AS REQUIRED.
- WHERE SPECIFIED, ALL PLANT BEDS, PITS AND TREE RINGS ARE TO RECEIVE A MINIMUM OF 2" - 3" DRESSING OF SHREDDED HARDWOOD OAK BARK MULCH SHAVINGS FREE OF GROWTH, WEEDS, FOREIGN MATTER DETRIMENTAL TO PLANT LIFE OR GERMINATION INHIBITING INGREDIENTS. LANDSCAPE CONTRACTOR TO PROVIDE A SAMPLE TO OWNER FOR APPROVAL. CONTRACTOR TO TAKE CARE WITH INSTALLATION NOT TO DAMAGE OR COVER PLANTS. REFER TO LSP1.2 FOR FURTHER INFORMATION.
- LAWN INSTALLATION: CONTRACTOR TO FURNISH AND PREPARE TOPSOIL (3" MIN) AND SEED BED (REMOVE ALL STONES 1" OR LARGER), APPLY STARTER FERTILIZER AND SEED UNIFORMLY. PROVIDE A MULCH COVERING SUITABLE TO GERMINATE AND ESTABLISH TURF. EROSION CONTROL MESH SHOULD BE USED IN SWALES AND STEEP GRADES WHERE APPLICABLE. METHODS OF INSTALLATION MAY VARY AT THE DISCRETION OF CONTRACTOR. IT IS HIS/HER RESPONSIBILITY TO ESTABLISH AND GUARANTEE A SMOOTH, UNIFORM, QUALITY TURF. IF STRAW MULCH IS USED AS A COVERING, A TACKIFIER MAY BE NECESSARY TO AVOID WIND DAMAGE.
- 23. DELUXE 50 GRASS SEED MIX REINDER'S (800) 785-3301**
20% KENTUCKY BLUE GRASS
15% NEWPORT KENTUCKY BLUE GRASS
15% SR 2100 Kentucky Bluegrass
25% Creeping Red Fescue
15% Replicator Perennial Ryegrass
10% Fiesta 4 Perennial Ryegrass
APPLY AT A RATE OF 200 POUNDS PER ACRE. REFER TO SUPPLIERS SPECIFICATIONS & INSTALLATION CUT SHEETS FOR FURTHER FORMATION
- DURING THE INITIAL "30 DAY MAINTENANCE PERIOD" THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE AND ON-GOING PLEASANT VISUAL ENVIRONMENT WHEREAS ANY PLANT WHICH IS NOT RESPONDING TO TRANSPLANTING OR THRIVING SHALL IMMEDIATELY BE REPLACED. NEW LAWNS SHALL BE WATERED AND REPAIRED AND WEEDS MUST CONSTANTLY BE REMOVED, NO EXCEPTIONS WILL BE GRANTED.
MAINTENANCE NOTE:
MAINTENANCE IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN REQUIRED LANDSCAPING IN ACCORDANCE WITH THE MUNICIPALITY'S PROPERTY MAINTENANCE CODE AND AN APPROVED MAINTENANCE PLAN. THE MAINTENANCE MUST INCLUDE, AT A MINIMUM, METHODS FOR PROVIDING THE FOLLOWING:
 - NECESSARY IRRIGATION (IF REQUIRED)
 - INTEGRATED PEST MANAGEMENT,
 - PROPER FERTILIZATION
 - TREE CARE AND PRUNING, SHRUB TIP CLIPPING AND SHAPING AS REQUIRED
 - REPLACEMENT OF LOST VEGETATION, AND ALL DISEASED, DAMAGED, OR DEAD MATERIAL WILL BE REPLACED BY THE END OF THE FOLLOWING PLANTING SEASON IN PERPETUITY.
 - WEED MANAGEMENT AND BED CARE.
- ALL NEWLY PLANTED TREES AND SHRUBS ARE TO RECEIVE AN APPLICATION OF AN ANTI-TRANSPIRANT SPRAY THAT WILL EFFECTIVELY REDUCE THE WATER LOSS OF TRANSPIRATION OF PLANT MATERIAL AND REDUCE THE STRESS OF TRANSPLANTATION. IT IS RECOMMENDED AS PART OF THE ONGOING MAINTENANCE THAT ANY BROADLEAF EVERGREEN AND CONIFEROUS TREE AND SHRUBS (EXCLUDING ARBORVITAE) RECEIVE AN APPLICATION OF AN ANTI-DESICCANT SPRAY TO REDUCE THE LOSS OF MOISTURE DUE TO WINTER DESICCATION.
- MAINTENANCE. THE OWNER SHALL TEND AND MAINTAIN ALL PLANT MATERIALS IN A HEALTHY GROWING CONDITION AS PER THE APPROVED PLAN. PLANTINGS SHALL BE REPLACED WHEN NECESSARY AND KEPT FREE FROM REFUSE & DEBRIS. ALL PLANTING MATERIAL WHICH IS DYING OR DAMAGED BEYOND RECOVERY SHALL BE REPLACED WITHIN SIX (6) MONTHS OR BY THE NEXT PLANTING SEASON, WHICHEVER COMES FIRST.
- LANDSCAPE / SITE DEMOLITION CONTRACTOR TO VERIFY LOCATIONS OF EXISTING TREES AND SHRUBS TO BE SALVAGED AND CLEARLY TAG THEM WITH MARKING TAPE AND CONSTRUCTION FENCE.
- IRRIGATION SYSTEM TO BE DESIGNED FOR A OVERLAPPING ZONED SPRINKLER HEAD SYSTEM IN ALL LAWN & ISLAND AREAS AND A DRIP SYSTEM FOR ALL FOUNDATION PLANTING AREAS.

1 PROPOSED LANDSCAPE PLAN

SITE INFORMATION

USDA PLANT HARDINESS ZONE	5a (-20 to -15 Degrees F)
LOT ZONING	xxxxx
LOT AREA	155,098 SQ. FT. 3.56 Acres
SITE BUILDING AREA	29,989 SQ. FT. 0.69 Acres
TOTAL IMPERVIOUS	93,810 SQ. FT. 2.15 Acres
TOTAL GREENSPACE	61,288 SQ. FT. 1.41 Acres
SITE LANDSCAPE PERCENTAGE	40%
TOTAL PARKING STALLS	109 STALLS
CONTRACTOR NOTE: THE LANDSCAPE CONTRACTOR/GENERAL CONTRACTOR ARE RESPONSIBLE TO INSTALL THE LANDSCAPE AS PER THE APPROVED PLAN. IF ANY CHANGES OR DEVIATIONS ARE MADE FROM THE THIS APPROVED PLAN, THE LANDSCAPE CONTRACTOR / GENERAL CONTRACTOR ARE RESPONSIBLE FOR UPDATING THE PLANS ACCORDINGLY AND SUBMITTING THOSE REVISED PLANS FOR APPROVAL AND "SIGN OFF" WITH THE CITY OF MEQUON. THE LANDSCAPE CONTRACTOR / GENERAL CONTRACTOR ARE ALSO RESPONSIBLE FOR VERIFYING THAT ANY PLANT MATERIAL SUBSTITUTIONS OR MODIFICATIONS THAT ARE MADE TO THE APPROVED LANDSCAPE DESIGN DOCUMENTS WILL NOT CHANGE OR ALTER ANY OF THE REQUIRED SUPPORTING LANDSCAPE REQUIREMENT CALCULATIONS. UPON COMPLETION OF THE CONSTRUCTION PROJECT AND FILE THAT AFFIDAVIT WITH THE CITY OF MEQUON	

DESIGN COMPLIANCE: THIS LANDSCAPE PLAN IS ACCURATE AND IN COPLAINACE WITH THE CITY OF MEQUON LANDSCAPE REQUIREMENTS SET FOR IN SECTION SEC. 58-564.- LANDSCAPING, SCREENING, BERMING AND PONDS.

(A) STREET TREES . THE DEVELOPER SHALL PROVIDE FOR THE PLANTING OR RETENTION OF STREET TREES ON BOTH SIDES OF ALL NEW ROADWAYS

(C) PARKING LOT LANDSCAPING. OFF STREET PARKING LOTS WITH MORE THAN TEN STALLS SHALL HAVE AT LEAST TEN PERCENT OF THE INTERIOR PARKING AREA LANDSCAPED

(D) PARKING LOT SHADING. LANDSCAPING IN AND AROUND PARKING LOTS SHALL BE DESIGNED, PLANTED AND MAINTAINED SO THAT A MINIMUM OF 30 PERCENT OF THE PARKING AREA WILL BE SHADED

(F) LANDSCAPING STANDARDS.

(2) AT LEAST ONE TREE AND TWO SHRUBS SHALL BE PLANTED FOR EACH 1,000 SQUARE FEET OR PORTION THEREOF OF THE AREA TO BE LANDSCAPED. EACH REQUIRED TREE SHALL HAVE AN INITIAL CALIPER OF NO LESS THAN TWO INCHES AND A HEIGHT OF AT LEAST SEVEN FEET.

(3) NO TREE AS MEASURED FROM ITS CENTER SHALL BE LOCATED WITHIN FIVE FEET OF A VEHICULAR ACCESSWAY, BIKE TRAIL OR PUBLIC SIDEWALK OR WITHIN TEN FEET OF A STREET LIGHT, STOP SIGN, FIRE HYDRANT, STREET SIGN OR DIRECTIONAL SIGN.

(4) ALL LANDSCAPING MATERIAL LOCATED WITHIN A SIGHT DISTANCE TRIANGLE SHALL BE TWO FEET OR LESS IN HEIGHT OR HAVE A CLEARANCE OF EIGHT FEET BENEATH THE LOWEST BRANCH OR PROJECTION.

SECTION 84-6. - REMOVAL OF TREES AND REPLACEMENT

REFER TO LSP1.5 FOR TREE INFORMATION

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Project for:
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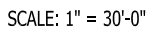
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Sheet Title:
**PROPOSED LANDSCAPE PLAN,
GENERAL NOTES,
AND PLANT MATERIAL TABLE**

Date of Drawing: 11/23/20
Scale: 1" = 30'-0"
Drawn By: MCD
Job Number: L20-069
Sheet Number:

LSP1.1

NOT FOR CONSTRUCTION - PRELIMINARY - FOR ESTIMATING AND REVIEW ONLY- DO NOT SCALE THESE DRAWINGS-
Attachment: Packet Docs (5712 : Mequon Medical)



Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
178	HeNo		Hemerocallis x 'Nosteratu'	Trophytaker Nosferatu Daylily	4 1/2" pot	

Attachment: Packet Docs (5712 : Inquest Medical)



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Sheet Title:

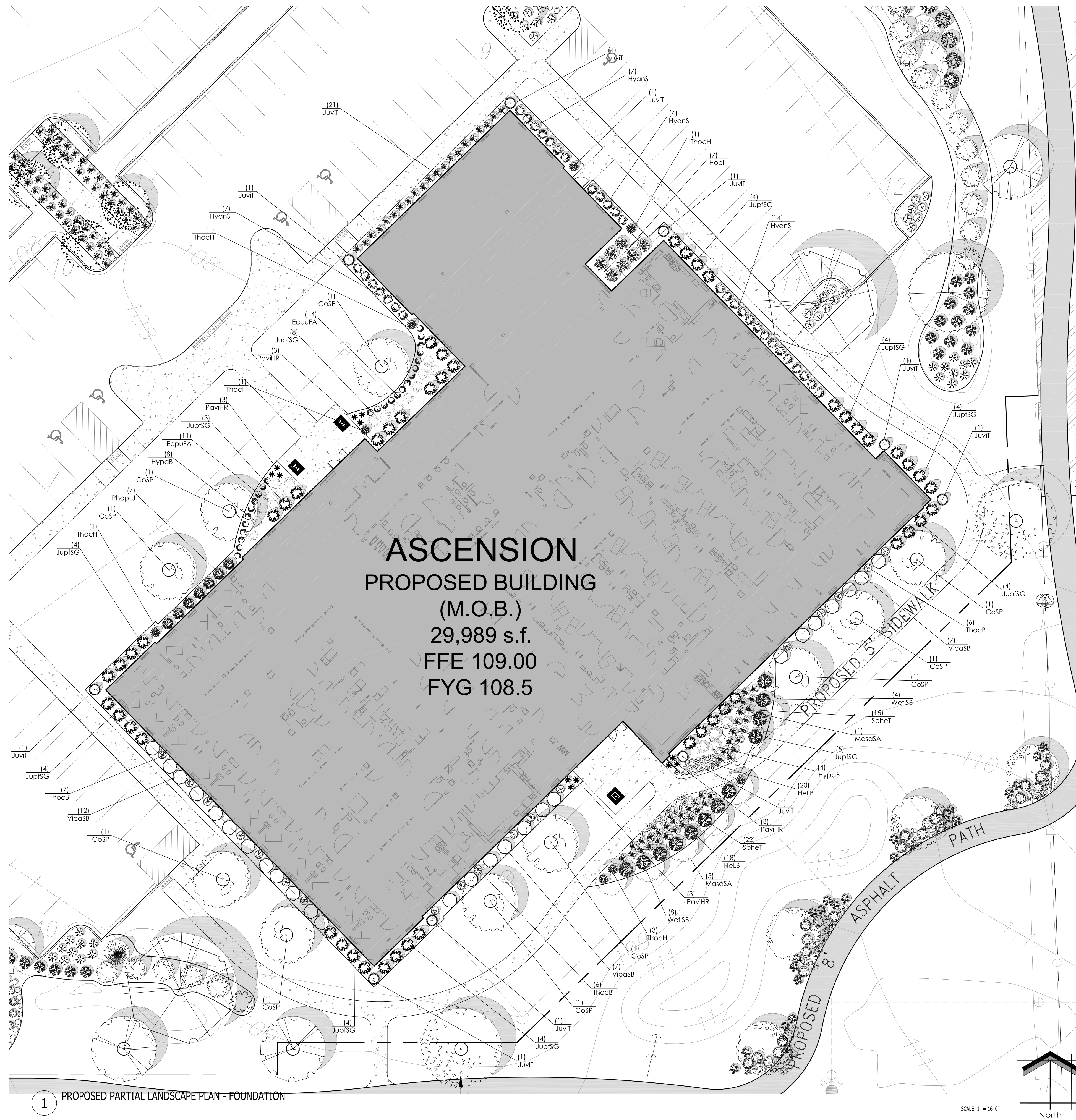
PROPOSED PARTIAL LANDSCAPE PLAN - FOUNDATION AND PLANT MATERIAL TABLE

Date of Drawing:	11/23/20
Scale:	1" = 16'-0"
Drawn By:	MCD
Job Number:	L20-069

Sheet Number:

LSP1.3

Packet Pg. 61



Proposed Plant Material Table - Foundation

Broadleaf Deciduous Tree						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
11	CoSP		Cornus x Rutgan	Stellar Pink Dogwood	1 1/2' Cal - 8&B	
6	MasaSA		Malus sargentii 'Select A'	Firebird Crabapple	1 1/2' Cal - 8&B	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
9	JuvIT	⊙	juniperus virginiana taylor	Taylor Redcedar	5' - B&B	

Broadleaf Deciduous Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
20	HyPaB		Hydrangea paniculata 'Bobo'	Bobo Hardy Hydrangea	18" - 8&8	
33	HyAnS		Hyericum ardorescum 3&8ff	Ignite Red St. John's Wort	18" - Cont	
7	PhopLJ		Physocarpus opulifolius 'Hoog1021'	Little Joker Ninebark	18" - Jof	
26	VicaS&8		Viburnum carlesii 'Spice Baby'	Spice Baby Viburnum	18" - 24" Cont	
12	We1S&8		Weigela florida 'Bokrasopin'	Sonic Bloom Pink Reblooming Weigela	24" Cont	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
48	JupISG		Juniperus x pfitzeriana 'MonSari'	Sea of Gold Juniper	18" - 24" - B&B	
18	ThocB		Thuja occidentalis 'Bobazam'	Mr. Bowling Ball Arborvitae	18" - Cont	
8	ThocH		Thuja occidentalis 'Holmstrup'	Holmstrup Dwarf Arborvitae	3" - B&B	

Perennial Grass						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
12	PavHR		<i>Panicum virgatum</i> 'Hot Rod'	Hot Rod Switch Grass	1-Gal - Cont	
59	Sphe1		<i>Sporobolus heterolepis</i> 'Tara'	Tara Prairie Dropseed	1-Gal - Cont	

Perennial						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
25	EcpuFA		Echinacea purpurea Fragrant Angel	Fragrant Angel Coneflower	4 1/2" pot	
38	HeLB		Hemerocallis x 'Little Business'	Little Business Dwarf Daylily	4 1/2" pot	
7	Hopl		Hosta plantaginea	Fragrant plainain lily	1-Gal - Cont	

Project:

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Sheet Title:

PROPOSED PARTIAL LANDSCAPE PLANS
OUTLOT OPTIONS
AND PLANT MATERIAL TABLES

Date of Drawing: 11/23/20

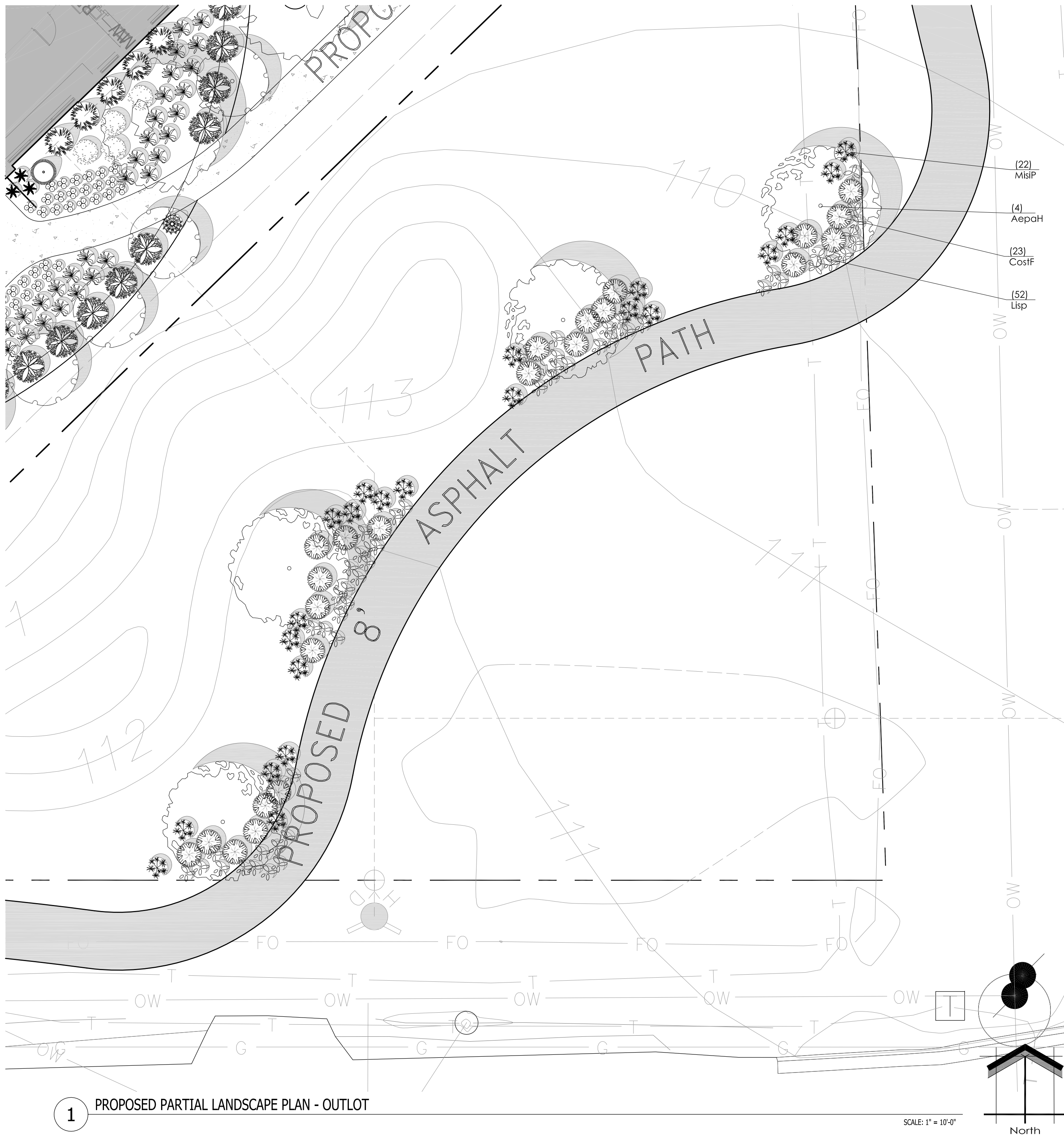
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Drawn By: MCD

Job Number: L20-069

Sheet Number:

LSP1.4

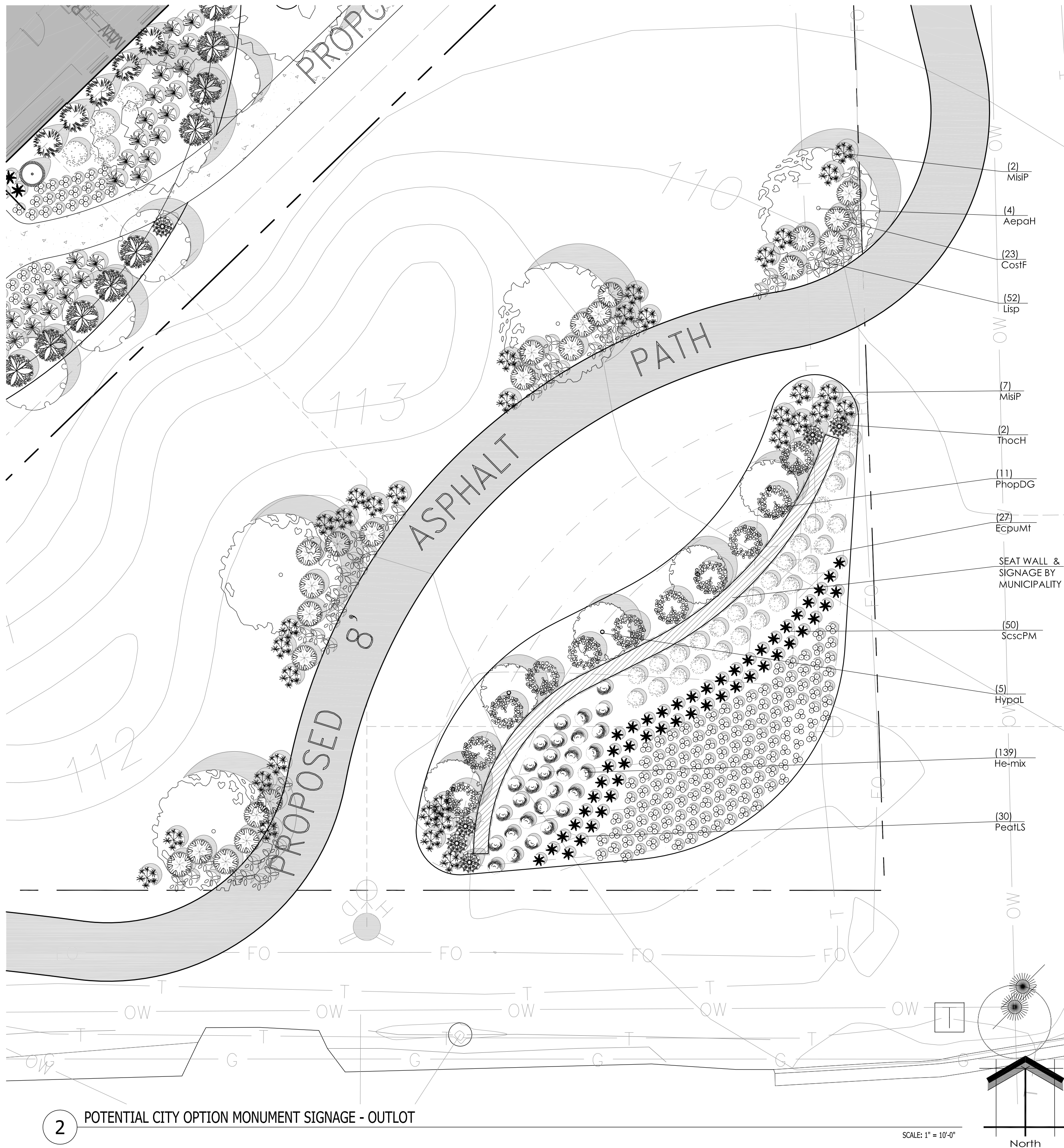


1 PROPOSED PARTIAL LANDSCAPE PLAN - OUTLOT

SCALE: 1" = 10'-0"

Proposed Plant Material Table - Outlot Option #1

Broadleaf Deciduous Tree						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
4	AepaH		Aesculus pavia 'Humilis'	Baumann Dwarf Red Buckeye	2"-Cal - B&B	
Broadleaf Deciduous Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
23	CostF		Cornus stolonifera 'Farrow'	Arctic Fire Red Twig Dogwood	18" - Cont	
Perennial Grass						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
22	MisIP		Miscanthus sinensis 'Purpuracens'	Purple Silver Grass	1-Gal - Cont	
Perennial						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
35	Lisp		Liatris spicata 'Kobold'	Kobold Blazing Star	4 1/2" pot	



2 POTENTIAL CITY OPTION MONUMENT SIGNAGE - OUTLOT

SCALE: 1" = 10'-0"

Proposed Plant Material Table - Outlot Option #2

Broadleaf Deciduous Tree						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
4	AepaH		Aesculus pavia 'Humilis'	Baumann Dwarf Red Buckeye	2"-Cal - B&B	
Broadleaf Deciduous Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
23	CostF		Cornus stolonifera 'Farrow'	Arctic Fire Red Twig Dogwood	18" - Cont	
11	PhopDG		Physocarpus opulifolius 'Dart's Gold'	Dart's Gold Ninebark	18" - 24" - Cont	
5	HypaL		Hydrangea paniculata 'Limelight'	Limelight Hardy Hydrangea	4' - Cont - tree form	
Conifer Evergreen Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
5	ThocH		Thuja occidentalis 'Holmstrup'	Holmstrup Dwarf Arborvitae	3' - B&B	
Perennial Grass						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
34	MisIP		Miscanthus sinensis 'Purpuracens'	Purple Silver Grass	1-Gal - Cont	
50	ScscPM		Schizachyrium scoparium 'Prairie Munchkin'	Prairie Munchkin Little Bluestem	1-Gal - Cont	
Perennial						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
27	EcpuMf		Echinacea purpurea 'Merlot'	Merlot Coneflower	1-Gal - Cont	
52	Lisp		Liatris spicata 'Kobold'	Kobold Blazing Star	4 1/2" pot	
30	PeatlS		Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage	1-Gal - Cont	
139	He-mix		Hemerocallis mix	Little Business Dwarf Daylily	4 1/2" pot	
			Hemerocallis x 'Swirling Water'	Swirling Water Daylily		
			Hemerocallis x 'Nosferatu'	Nosferatu Daylily		
			Hemerocallis x 'Ruby Spider'	Ruby Spider Daylily		
			Hemerocallis x 'VER00204'	Yellow Punch Daylily		

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Sheet Title:

INVENTORY OF EXISTING TREES TO BE REMOVED

Date of Drawing: 11/23/20

Scale: AS NOTED

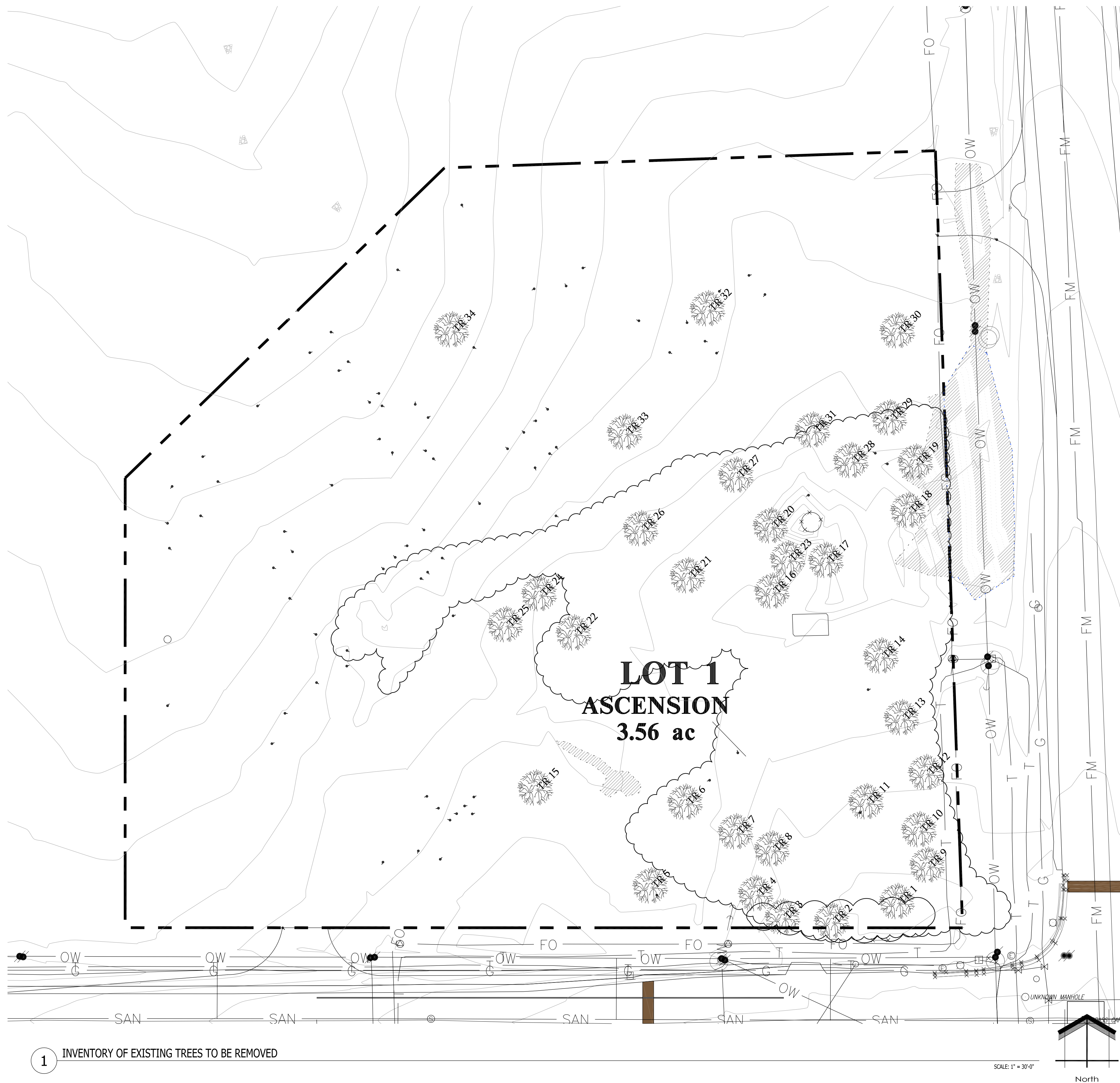
Drawn By: MCD

Job Number: L20-069

Sheet Number:

LSP 1.5

Packet Pg. 63



1 INVENTORY OF EXISTING TREES TO BE REMOVED

SCALE: 1" = 30'-0"

North

UNDERGROUND SEWER AND UTILITY INFORMATION AS SHOWN IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. THE ACCURACY OF WHICH CAN NOT BE GUARANTEED OR CERTIFIED TO. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS SURVEY ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN

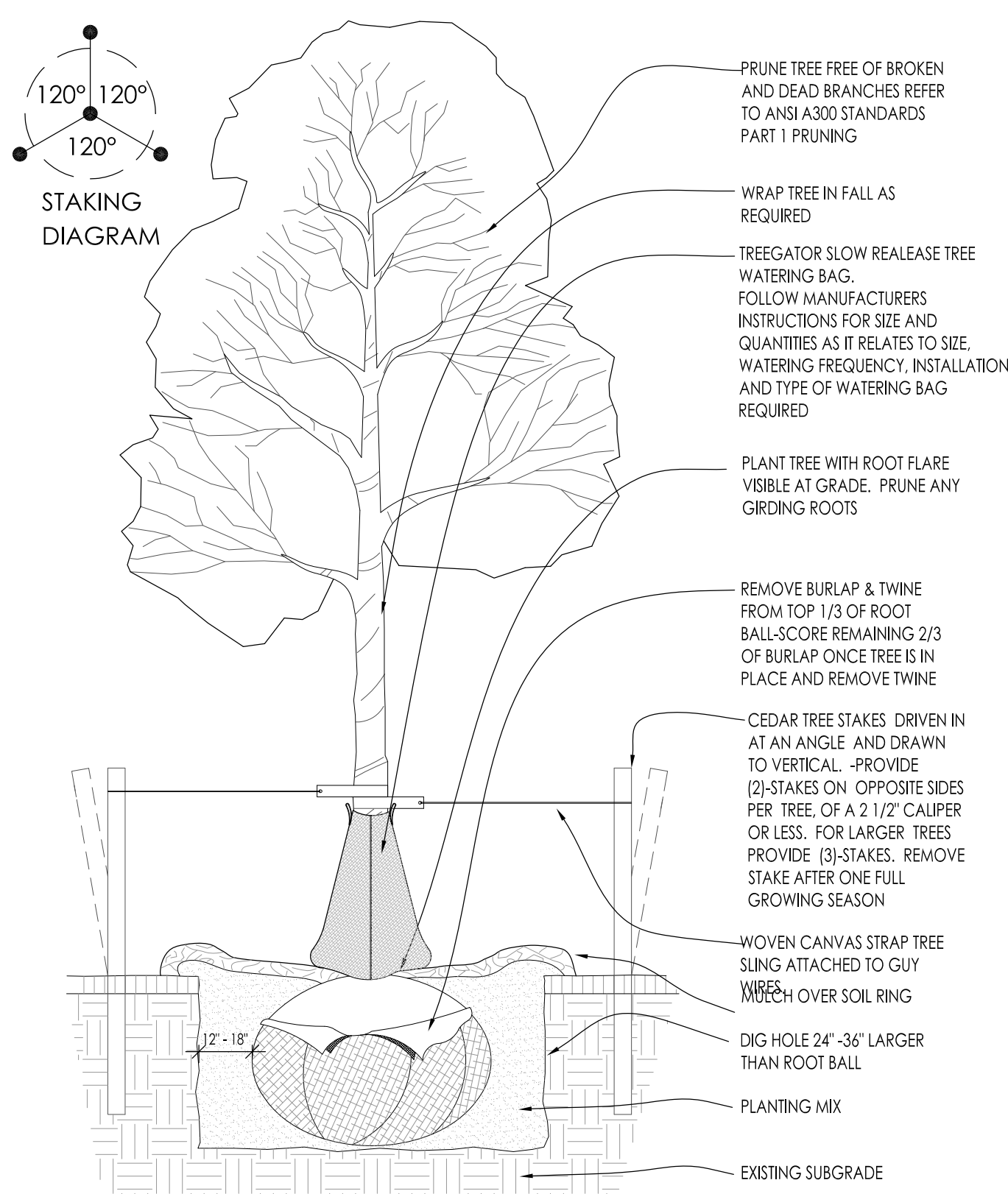
TO OBTAIN LOCATION OF
PARTICIPANTS UNDERGROUND
FACILITIES BEFORE YOU DIG IN
WISCONSIN CALL THE MILWAUKEE
UTILITY ALERT NETWORK
(800)-242-8511, (262) 432-7910
(877) 500-9592
www.Diggershotline.com
OR



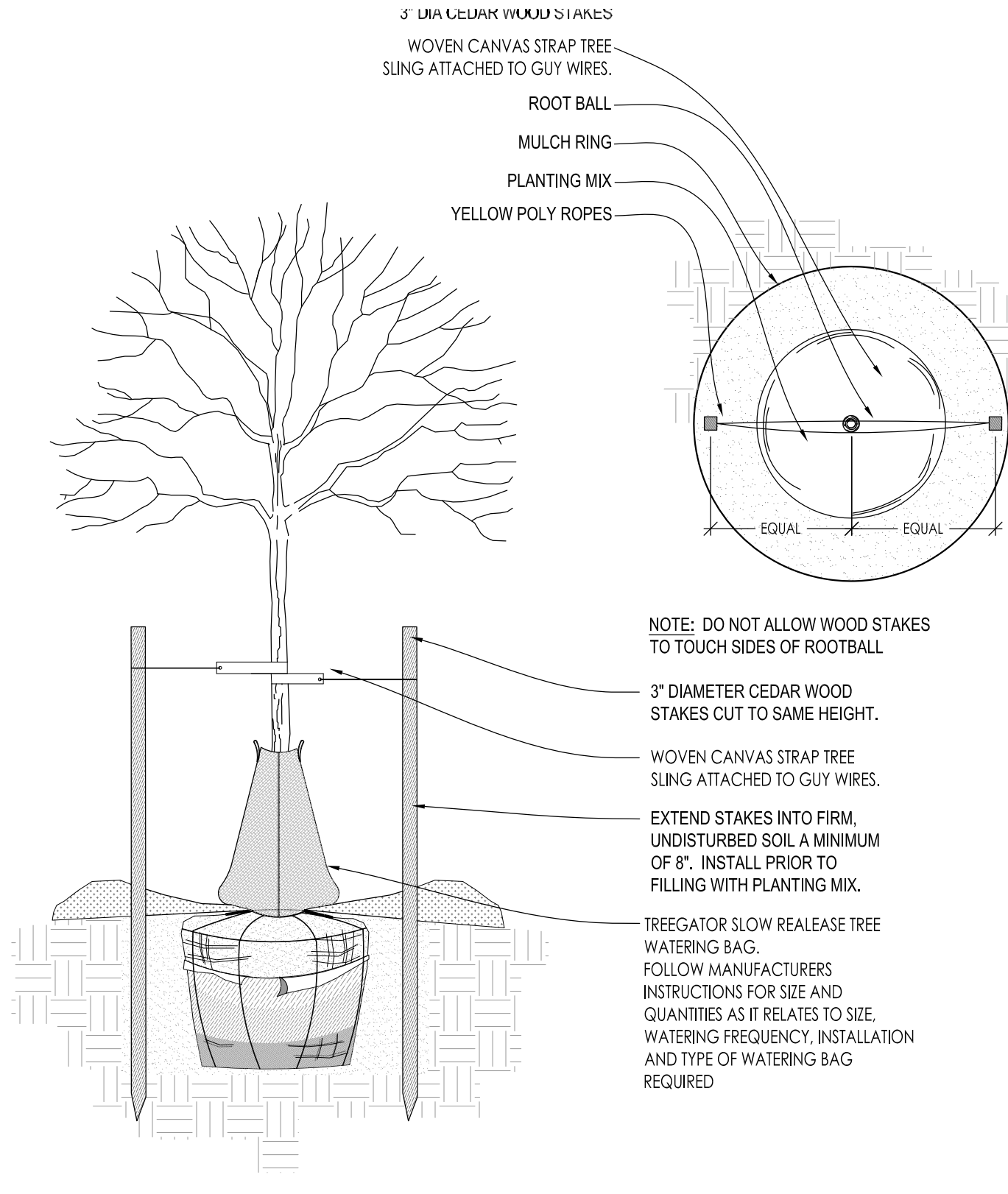
TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

DIGGERS HOT LINE

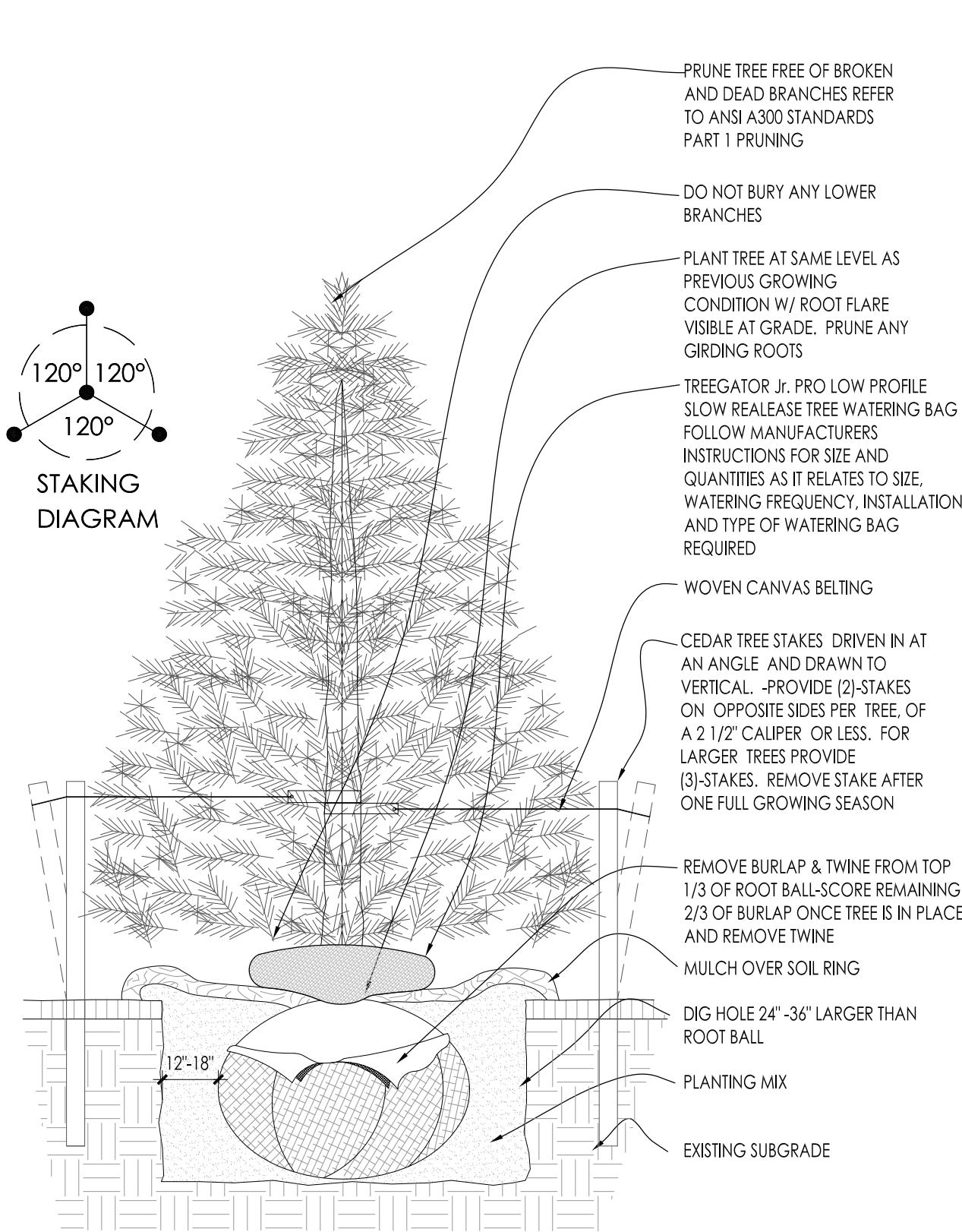
WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM OF 3 DAYS NOTICE BEFORE YOU LEAVE A VOTE AND/OR PARTICIPATE SATURDAY, SUNDAY OR LEGAL HOLIDAYS



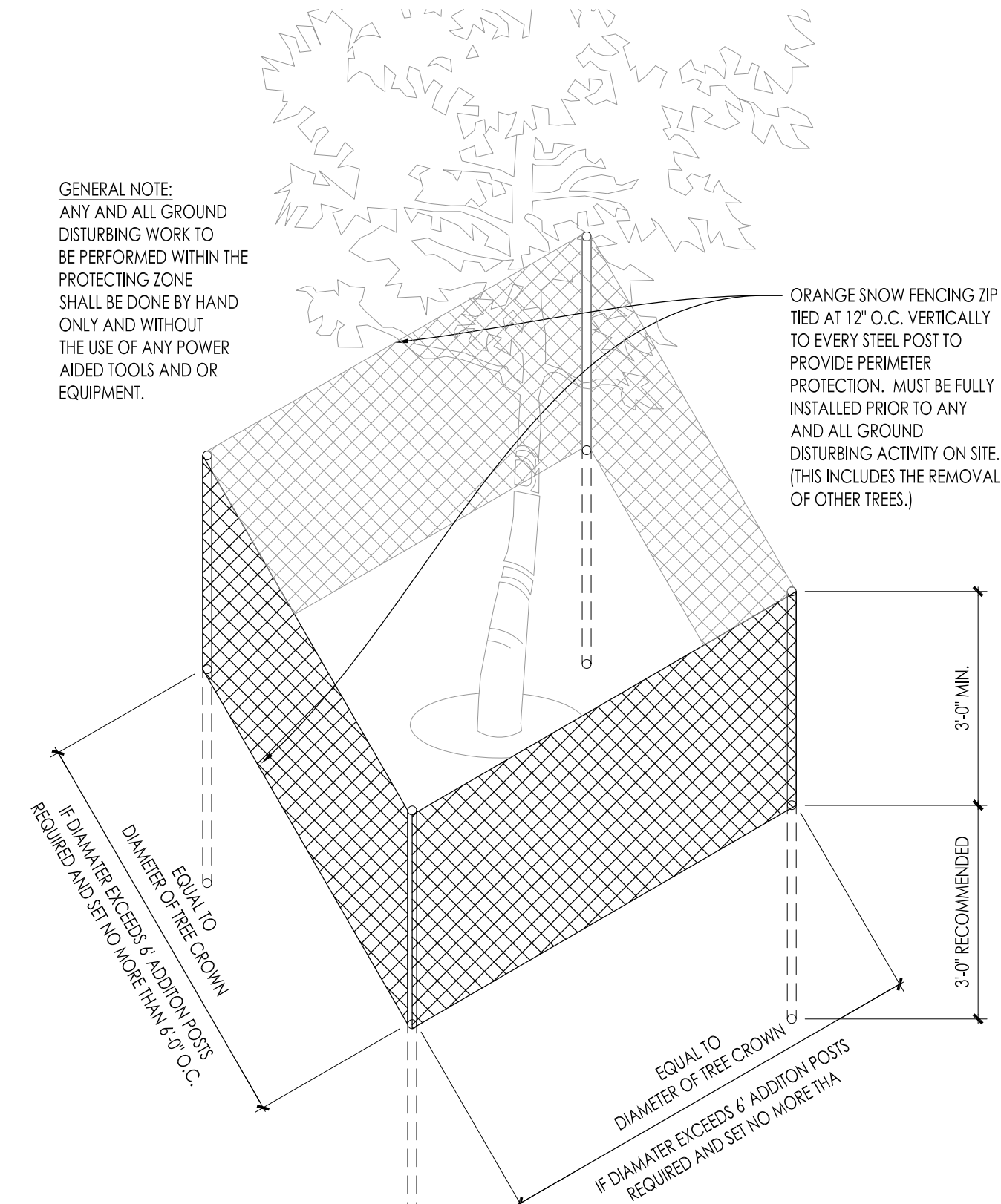
1 DECIDUOUS TREE PLANTING DETAIL SCALE: NONE



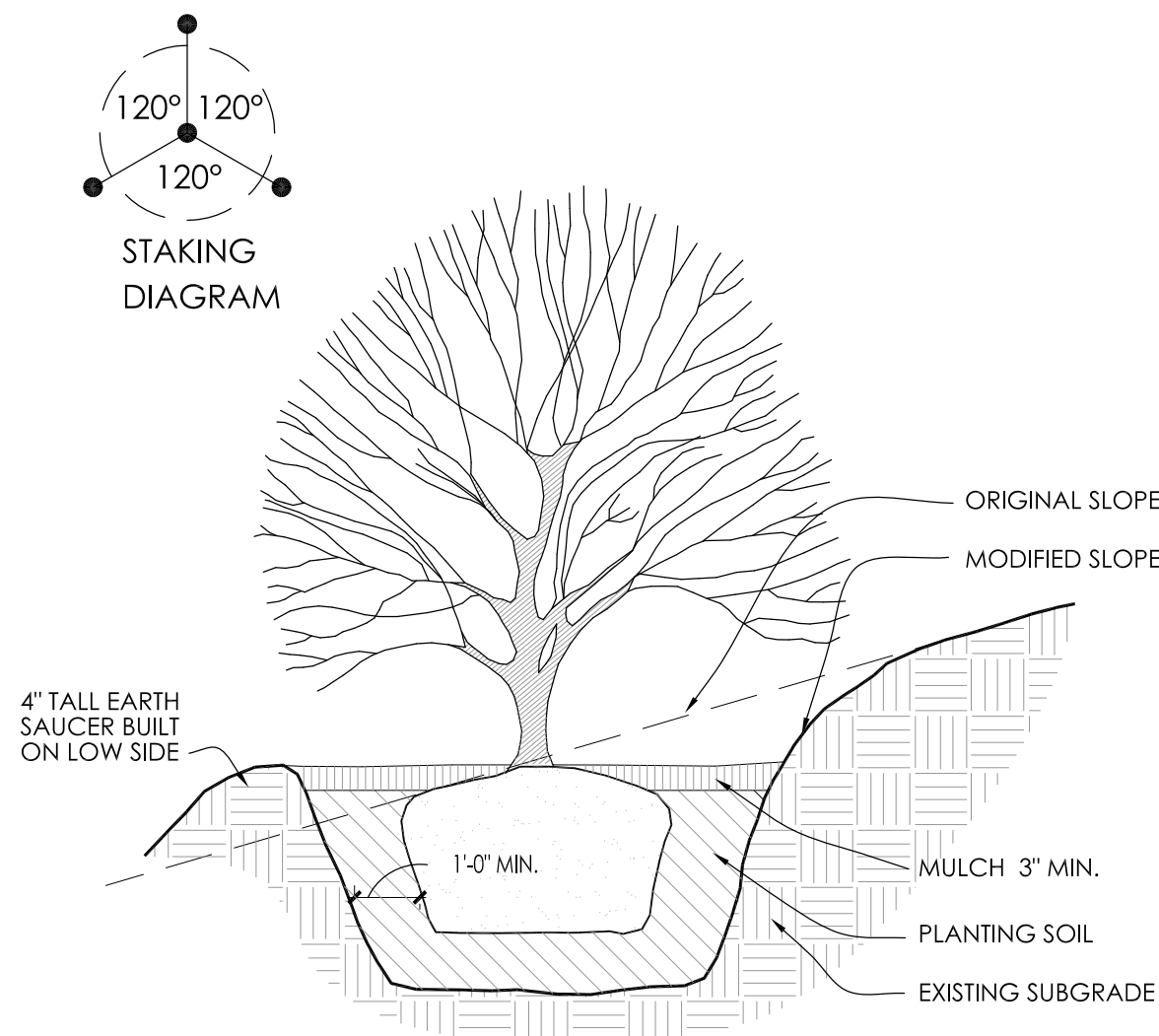
2 DECIDUOUS TREE STAKING PARKING ISLAND/RESTRICTED AREAS SCALE: NONE



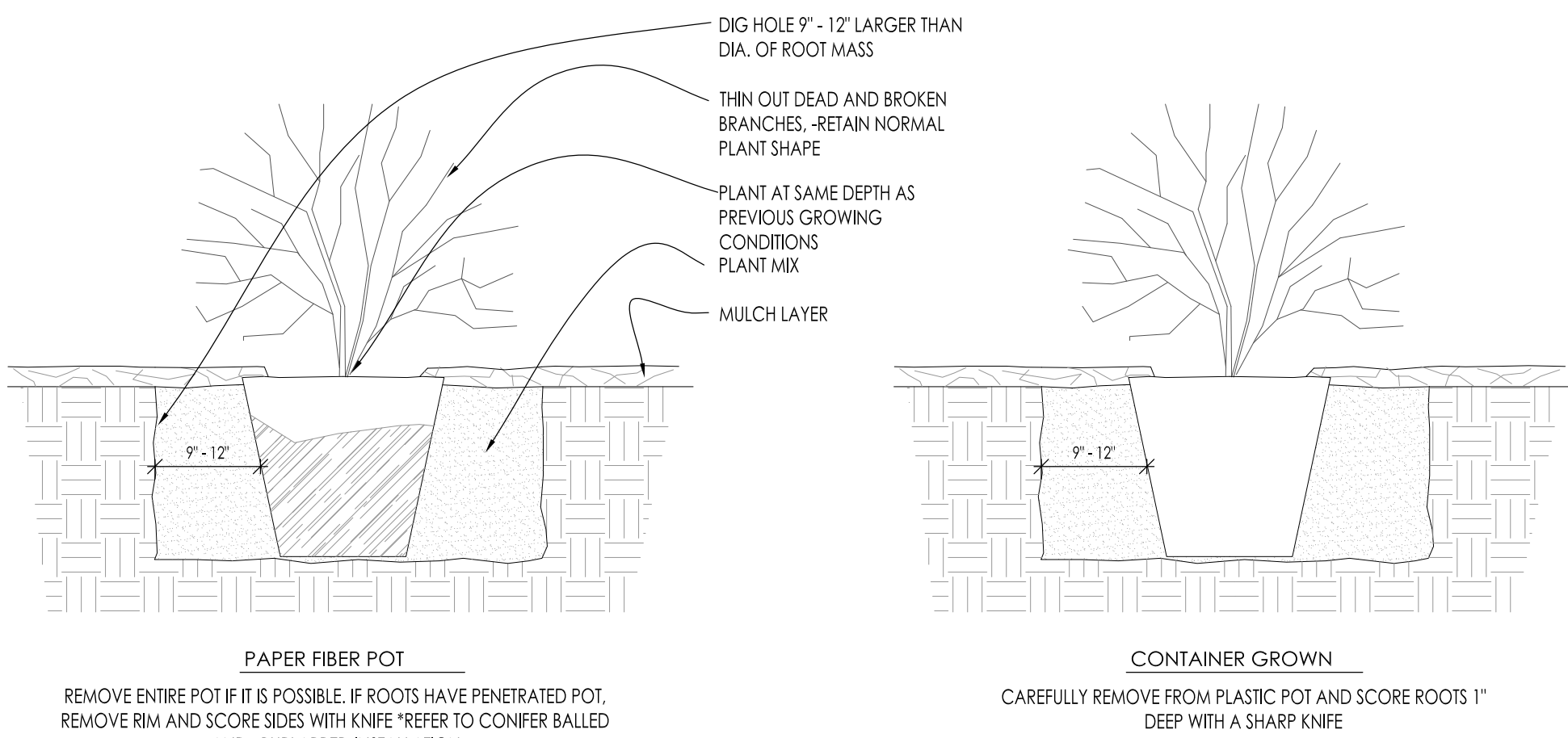
3 CONIFEROUS TREE PLANTING DETAIL SCALE: NONE



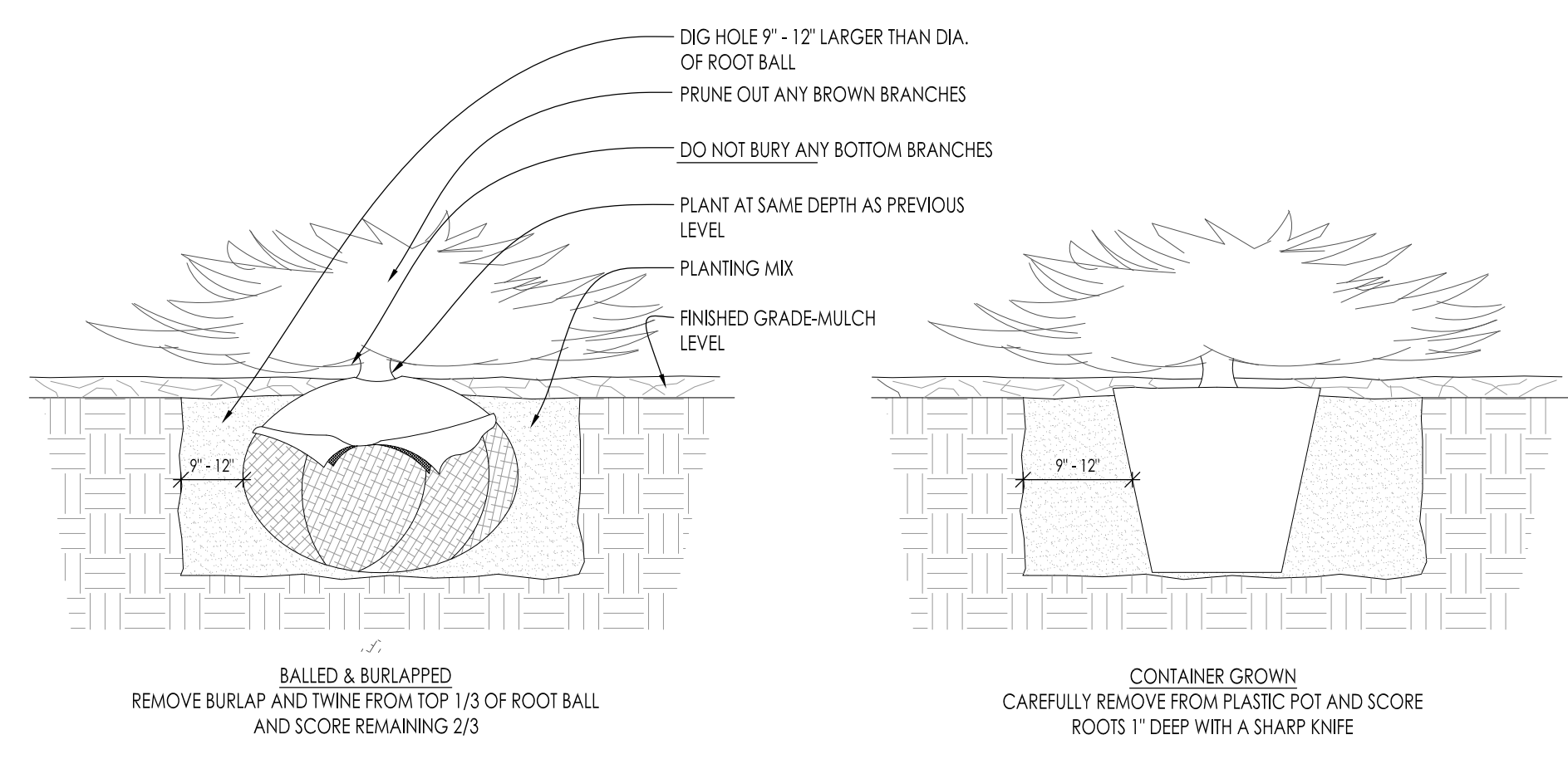
4 EXISTING TREE PROTECTION DETAIL SCALE: NONE



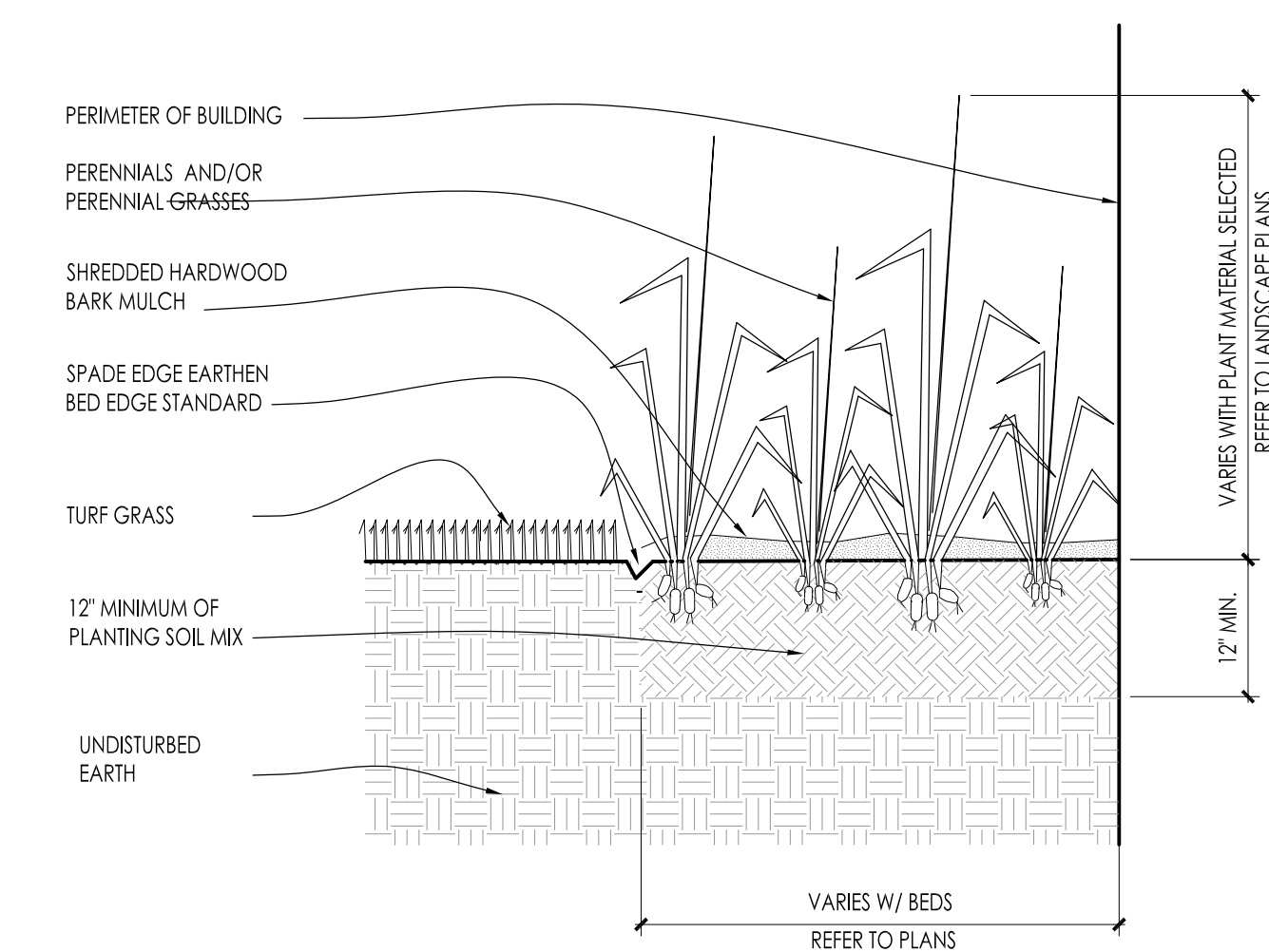
5 SLOPE PLANTING DETAIL SCALE: NONE



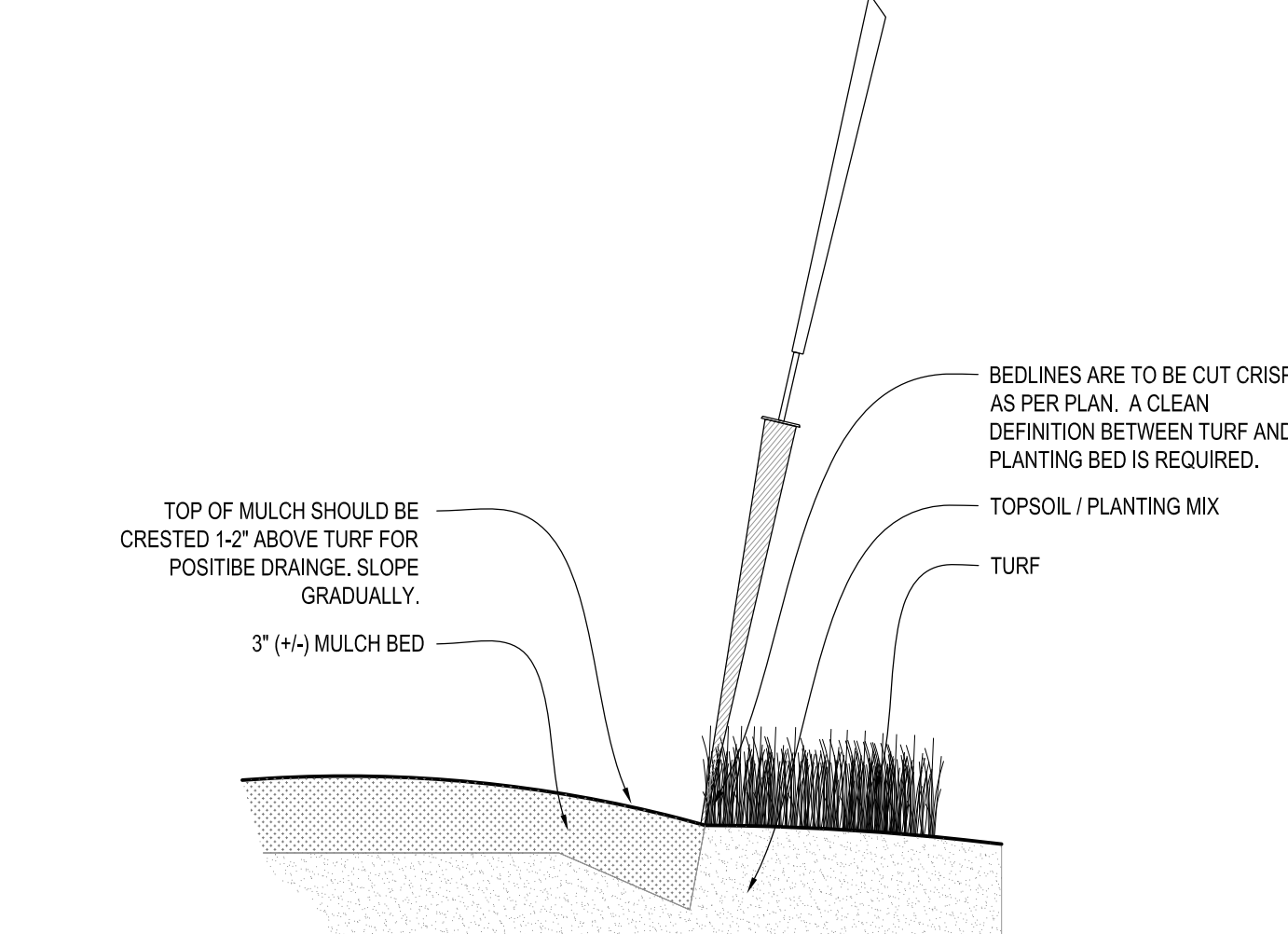
6 DECIDUOUS SHRUB PLANTING DETAIL SCALE: NONE



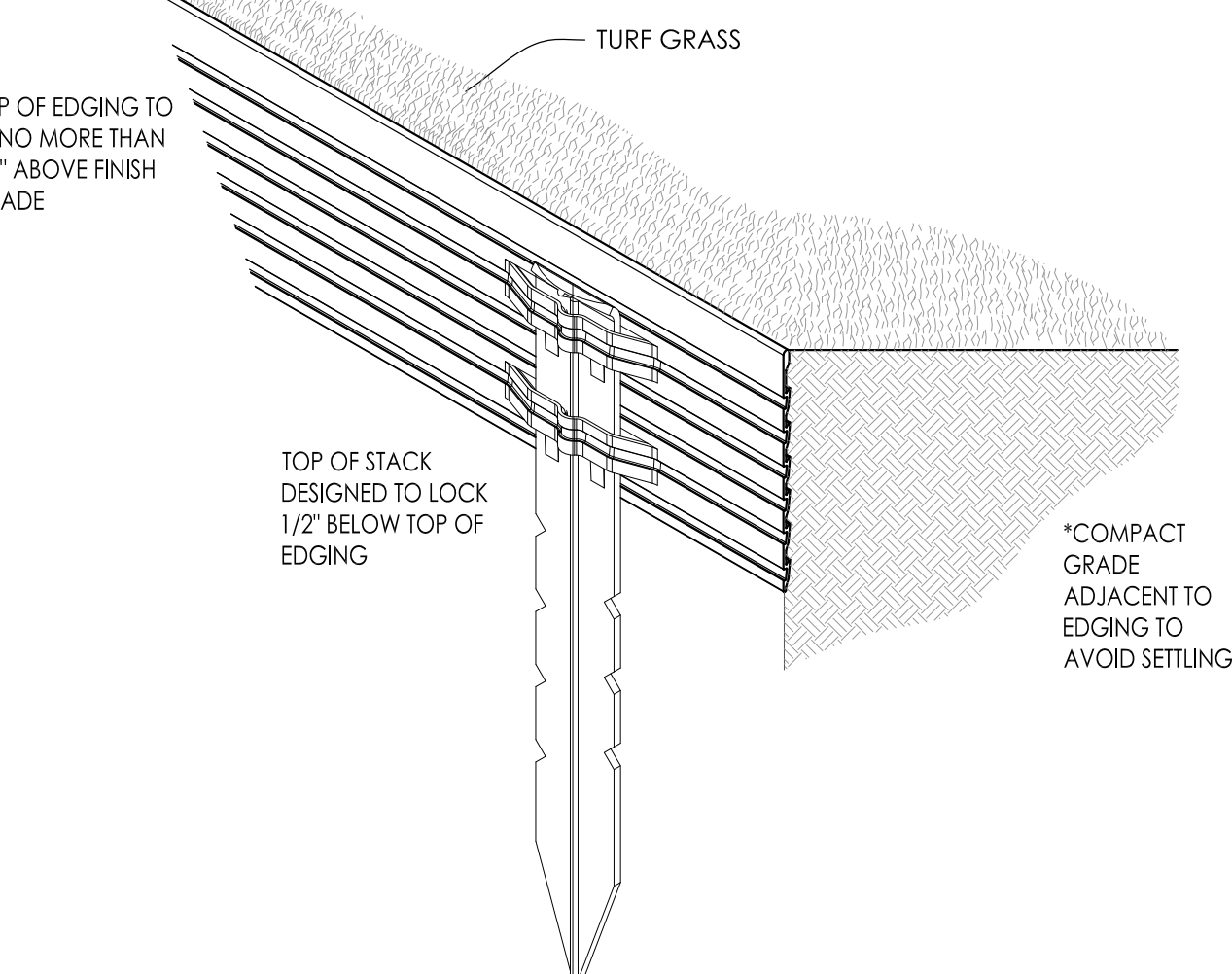
7 CONIFEROUS SHRUB PLANTING DETAIL SCALE: NONE



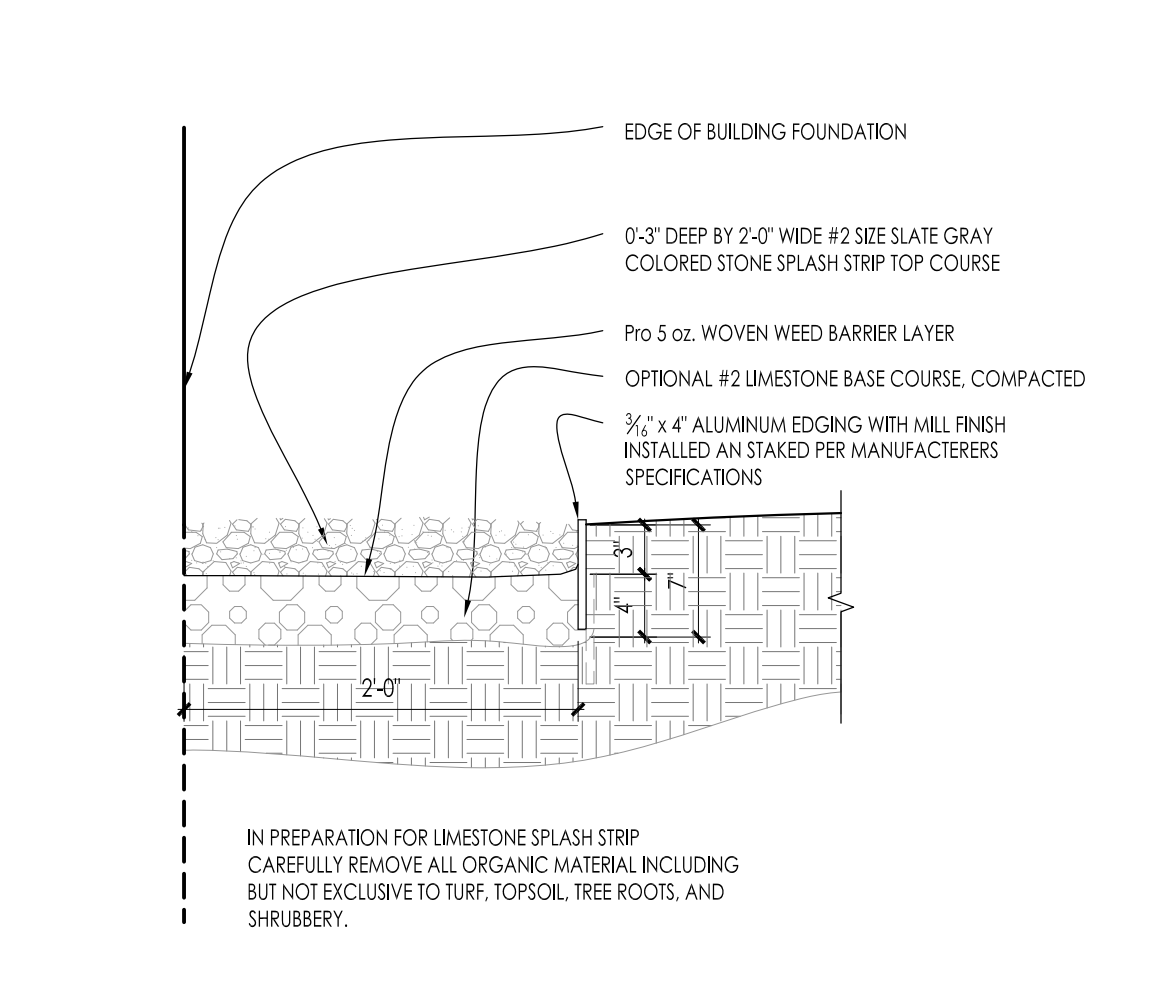
8 PERENNIAL BED PLANTING DETAIL SCALE: NONE



9 SPADE EDGE PLANT BED EDGE DETAIL SCALE: NONE



10 METAL LANDSCAPE EDGING DETAIL SCALE: 1/2\"/>



11 COMPACTED GRAVEL SPLASH STRIP SCALE: 1\"/>

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Issuance and Revisions:

Date	Number	Description
08/27/20		Client Review Submittal
08/28/20		Client Review Submittal
09/21/20		Plan Commission Submittal
11/23/20		Plan Commission Re-Submittal

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Sheet Title:

PROPOSED LANDSCAPE PLAN,
PLANTING DETAILS

Date of Drawing:	11/23/20
Scale:	As Noted
Drawn By:	MCD
Job Number:	L20-069
Sheet Number:	

LSP1.6



milwaukee	333 East Chicago Street Milwaukee, Wisconsin 53202 414.271.5350
madison	309 West Johnson Street, Suite 202 Madison, Wisconsin 53703 608.442.5550
des moines	699 Walnut Street, Suite 400 Des Moines, Iowa 50309 515.724.5840
denver	1899 Wynkoop Street, Suite 300 Denver, Colorado 80202 303.556.4500

PROJECT INFORMATION

ASCENSION
MEQUON CLINIC

Highland Rd. and Port
Washington Rd.
Mequon, WI 53092

ISSUANCE AND REVISIONS	
DATE	DESCRIPTION
02/07/2020	CORE & SHELL BID DOCUMENTS
11/23/2020	PLAN COMMISSION

KEY PLAN

rtm
engineering consultants
3710 N. Milwaukee Ave. | Suite 300 | Milwaukee, WI 53208
P: 414.271.5350 | www.rtmconsultants.com

SHEET INFORMATION

PROJECT MANAGER MR

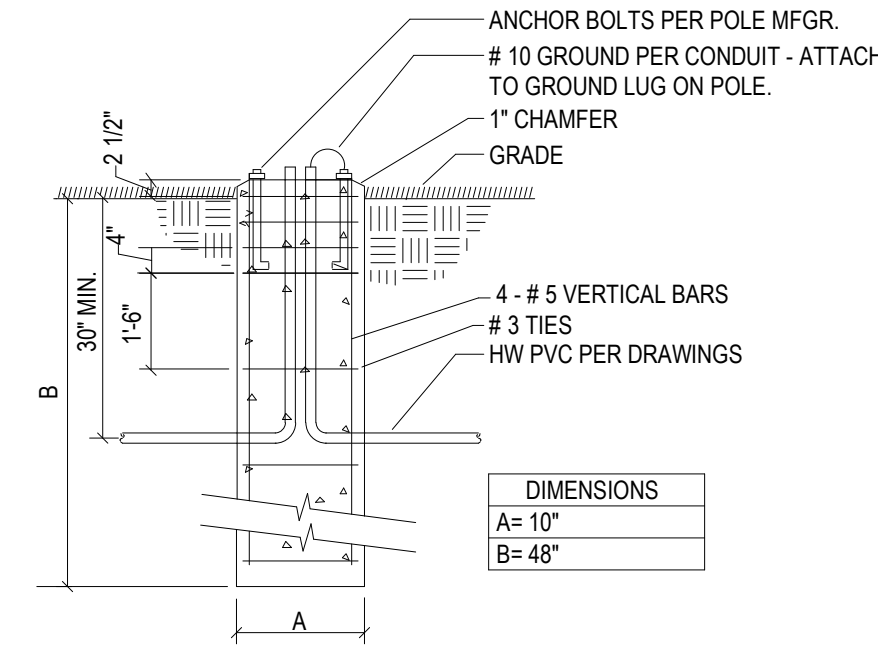
PROJECT NUMBER 419259

SITE PLAN
PHOTOMETRICS -
BCS

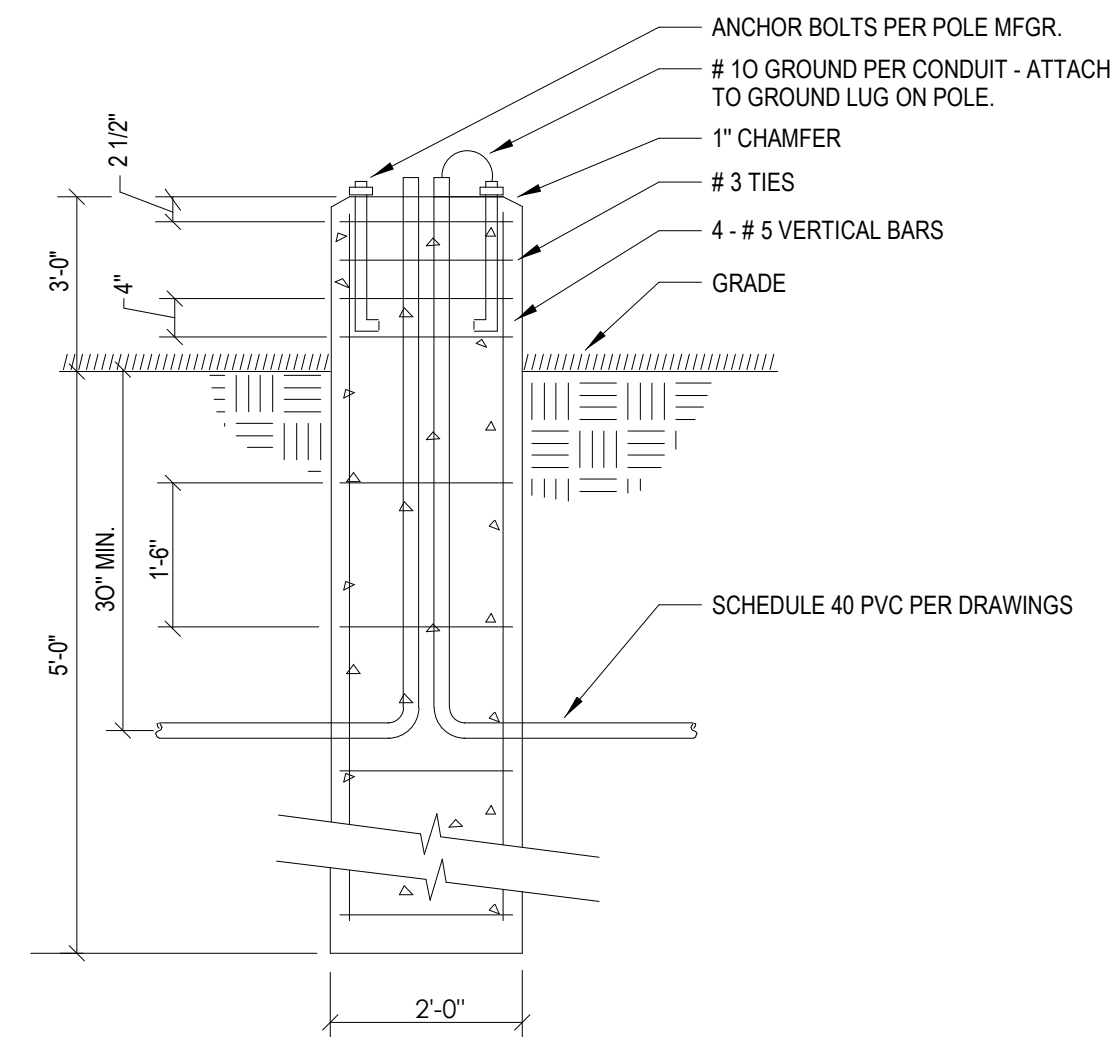
ES100P

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Statistics										
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min				
PROPERTY LINE	+	0.1 fc	0.5 fc	0.0 fc	N/A	N/A				
10' OFF PROPERTY LINE	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A				
PARKING AREA	+	2.0 fc	5.1 fc	0.5 fc	10.2:1	4.0:1				
SIDE WALK - BUILDING PERIMETER	+	1.5 fc	7.4 fc	0.2 fc	37.0:1	7.5:1				
SIDE WALK - NORTH	+	1.7 fc	3.2 fc	0.2 fc	16.0:1	8.5:1				



A BOLLARD BASE DETAIL
NO SCALE



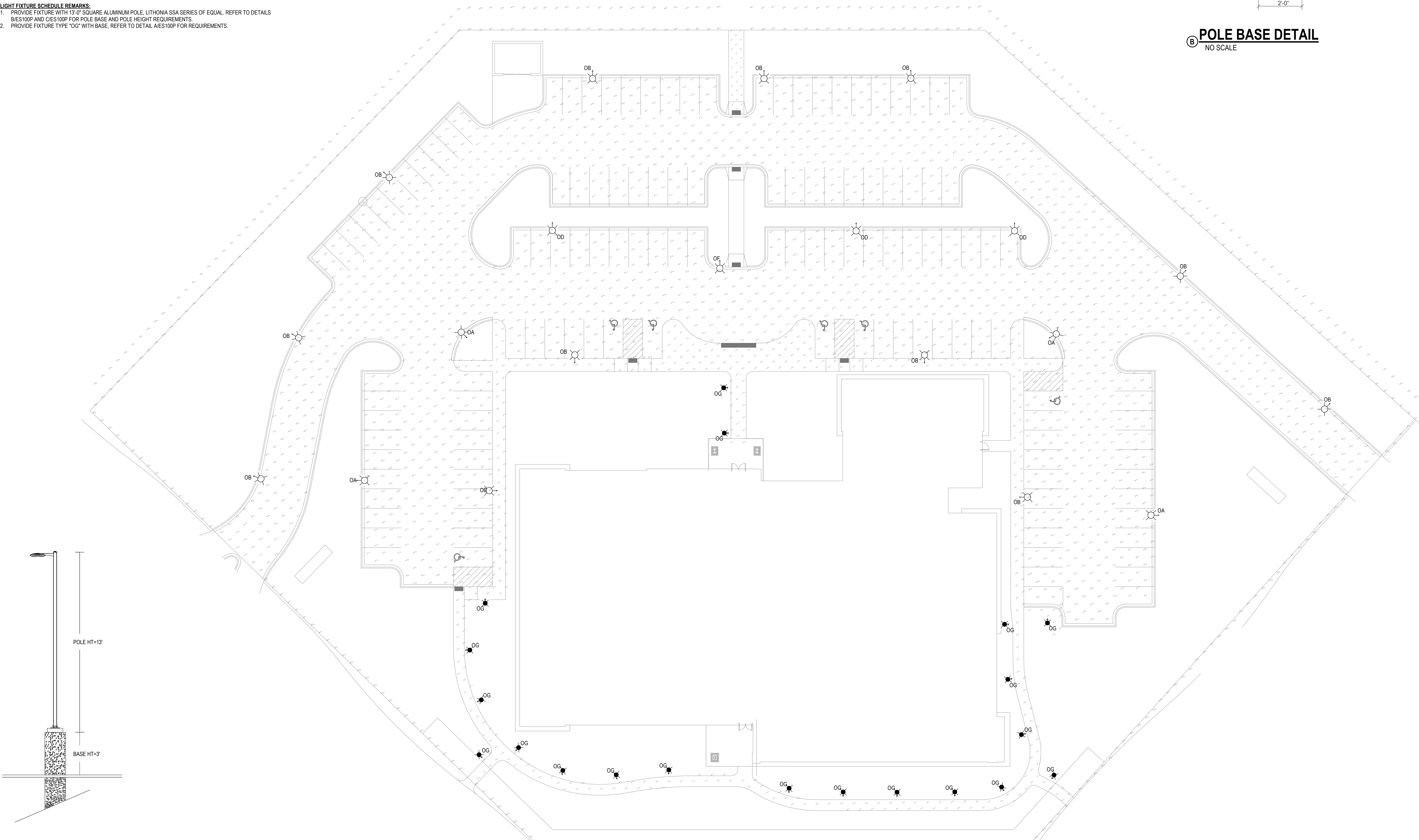
B POLE BASE DETAIL
NO SCALE

LIGHTING FIXTURE SCHEDULE															
TYPE	DESCRIPTION	FIXTURE TYPE	LIGHT SOURCE			DRIVER BALLAST			MOUNTING		SPECIFIED FIXTURE				REMARKS
			DESCRIPTION	K	CRI	TYPE	NO.	WATTS	VOLTS	HEIGHT	MANUFACTURER	MODEL NO.	OPTIONS	FINISH	

FIXTURE TYPE		DRIVER/BALLAST TYPE		MOUNTING TYPE		CEILING TYPE		FINISHES	
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
F	FLUORESCENT	0-10V	0-10 VOLT DIMMING	AFF	ABOVE FINISH FLOOR	DW	DRYWALL	A/O	COLOR AS SELECTED BY ARCHITECT/OWNER
H	HID	D1	DIMMING 1-100%	AFG	ABOVE FINISH GRADE	ES	EXPOSED STRUCTURE	BA	BRUSH ALUMINUM
HAL	HALOGEN	D6	DIMMING 5-100%	P	PENDANT	LG	LAY-IN GRID	BZ	BRONZE
I	INCANDESCENT	D10	DIMMING 10-100%	R	RECESS	V	VARIES	CF	CUSTOM FINISH
LED	LIGHT EMITTING DIODE	DST	STEP DIMMING 50/100%	S	SURFACE			SF	STANDARD FINISH
		ST	STANDARD	W	WALL MOUNTED			SN	SATIN NICKLE

- OPTIONS:
- AIR HANDLING CAPABILITY-RETURN AIR
 - 3" DEEP PARABOLIC LOUVERS
 - 4" DEEP PARABOLIC LOUVERS
 - SEMI-SPECULAR, LOW IRIDESCENT PARABOLIC LOUVERS
 - FURNISH WITH HOLOPHANE GAG LENS
 - FLAT ALUMINUM DOOR FRAME-MITERED CORNERS
 - REGRESSED ALUMINUM DOOR FRAME
 - FLAT STEEL DOOR FRAME
 - SINGLE GASKETED DOOR FRAME
 - DOUBLE GASKETED DOOR FRAME
 - TRIPLE GASKETED DOOR FRAME, LENS, BODY
 - POST PAINTED FINISH
 - WET LOCATION CONSTRUCTION
 - DAMP LOCATION CONSTRUCTION
 - STAINLESS STEEL TRIM AND DOOR FRAME
 - CLEAR ALZAK REFLECTOR
 - FURNISH WITH DUST COVER
 - FURNISH WITH ANGLED DUST COVER
 - FURNISH WITH LENS AND GASKET
 - FURNISH WITH AUXILIARY QUARTZ RESTRIKE
- FURNISH WITH SLOPE ADAPTER-VERIFY SCOPE
 - FURNISH WITH AUXILIARY EMERGENCY BATTERY BALLAST
 - FURNISH WITH WIRE GUARD
 - FURNISH CHAIN MOUNTING ACCESSORIES
 - FURNISH WITH RIGID PENDANT SYSTEM
 - FURNISH WITH SWIVEL CANOPY
 - FURNISH WITH SYMMETRICAL REFLECTOR
 - FURNISH WITH ASYMMETRICAL REFLECTOR
 - FURNISH WITH PERFORATED DIFFUSER
 - FURNISH WITH SOLID FRONT
 - FURNISH WITH PHOTO CELL
 - FURNISH WITH DIMMING BALLAST COMPATIBLE WITH DIMMING CONTROL
 - WHITE STRAIGHT BLADE LOUVERS
 - FURNISH TRIM SUITABLE FOR USE WITH NARROW TEE CLG SUSPENSION SYSTEM
 - CUSTOM FINISH-COLOR AS SELECTED BY ARCHITECT/OWNER
 - STANDARD FINISH-COLOR AS SELECTED BY ARCHITECT/OWNER
 - FURNISH WITH HF NOISE SUPPRESSORS (GE890635) FOR EACH BALLAST
 - FURNISH WITH ACRYLIC LENS WITH INTEGRAL RF1 SHIELDING
 - FURNISH WITH HOUSE SIDE SHIELD

- LIGHT FIXTURE SCHEDULE REMARKS:
- PROVIDE FIXTURE WITH 13'-0" SQUARE ALUMINUM POLE, LITHONIA SSA SERIES OF EQUAL. REFER TO DETAILS BIES100P AND GES100P FOR POLE BASE AND POLE HEIGHT REQUIREMENTS.
 - PROVIDE FIXTURE TYPE "OG" WITH BASE, REFER TO DETAIL AIES100P FOR REQUIREMENTS.

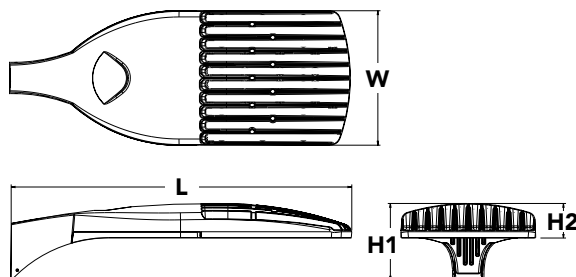


C POLE HEIGHT DETAIL
NO SCALE

1 SITE PLAN - PHOTOMETRICS
1" = 20'-0"

Specifications

Weight (max): 27 lbs
(12.2 kg)



A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAR2 PIRHN DDBXI

DSX1 LED	P2	40K	T3M	MVOLT	SPA
Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	Forward optics	30K 3000 K	T1S Type I short T5VS Type V very short ²	MVOLT ⁴	Shipped included
	P1 P4 P7	40K 4000 K	T2S Type II short T5S Type V short ²	120 ⁵	SPA Square pole mounting
	P2 P5 P8	50K 5000 K	T2M Type II medium T5M Type V medium ²	208 ⁵	RPA Round pole mounting
	P3 P6 P9		T3S Type III short T5W Type V wide ²	240 ⁵	WBA Wall bracket ²
	Rotated optics		T3M Type III medium BLC Backlight control ³	277 ⁵	SPUMBA Square pole universal mounting adaptor ⁶
	P10 ¹ P12 ¹		T4M Type IV medium LCCO Left corner cutoff ³	347 ⁵	RPUMBA Round pole universal mounting adaptor ⁶
	P11 ¹ P13 ¹		TFTM Forward throw medium RCCO Right corner cutoff ³	480 ⁵	Shipped separately
					KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁷

PIRH		* (VERIFY W/ ARCH)	
Control options		Other options	
Shipped installed		Shipped installed	
NLTAIR2	nLight AIR generation 2 enabled ⁸	HS	House-side shield ¹⁸
PIRHN	Network, high/low motion/ambient sensor ⁹	SF	Single fuse (120, 277, 347V) ⁵
PER	NEMA twist-lock receptacle only (controls ordered separate) ¹⁰	DF	Double fuse (208, 240, 480V) ⁵
PER5	Five-pin receptacle only (controls ordered separate) ^{10,11}	L90	Left rotated optics ¹
PER7	Seven-pin receptacle only (controls ordered separate) ^{10,11}	R90	Right rotated optics ¹
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹³	Shipped separately	
DS	Dual switching ^{13,14,15}	BS	Bird spikes ¹⁹
		EGS	External glare shield
			Finish <i>(required)</i>
PIR	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc ^{16,17}	DDBXD	Dark bronze
PIRH	High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ^{16,17}	DBLXD	Black
PIR1FC3V	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{16,17}	DNAXD	Natural aluminum
PIRH1FC3V	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{16,17}	DWHXD	White
FAO	Field adjustable output ¹⁵	DBBTXD	Textured dark bronze
		DBLBXD	Textured black
		DNATXD	Textured natural aluminum
		DWHGXD	Textured white

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁰
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁰
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁰
DSHORT SBK U	Shorting cap ²⁰
DSX1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 ¹⁸
DSX1HS 40C U	House-side shield for P6 and P7 ¹⁸
DSX1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 ¹⁸
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) ²¹
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ⁷
DSX1EGS (FINISH) U	External glare shield

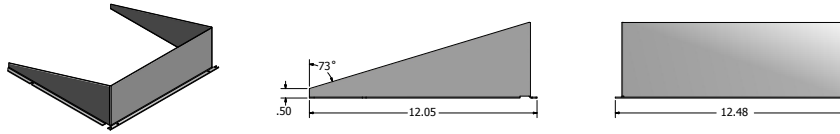
For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- Any Type 5 distribution, is not available with WBA.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
- If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
- DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits with isolated neutral. See Outdoor Control Technical Guide for details.
- Reference Motion Sensor table on page 4.
- Reference controls options table on page 4 to see functionality.
- Not available with other dimming controls options
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

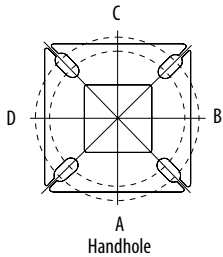
Options

EGS - External Glare Shield



Drilling

HANDHOLE ORIENTATION



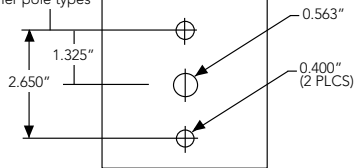
Tenon Mounting Slipfitter**

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
2-3/8"	SPA/RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 320	AS3-5 390	AS3-5 490
	SPUMBA	AS3-5 190	AS3-5 280	AS4-5 290	AS3-5 320	AS4-5 390	AS4-5 490
	RUPUMBA	AS3-5 190	AS3-5 280		AS3-5 320		
2-7/8"	SPA/RPA	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
	SPUMBA	AST25-190	AST25-280		AST25-320		
	RUPUMBA	AST25-190	AST25-280		AST25-320		
4"	SPA/RPA	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490
	SPUMBA	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490
	RUPUMBA	AST35-190	AST35-280		AST35-320		

Template #8

Top of Pole

1.75" for aluminum poles
2.75" for other pole types



Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

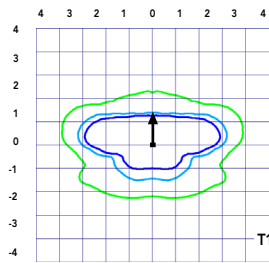
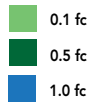
	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RUPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

Photometric Diagrams

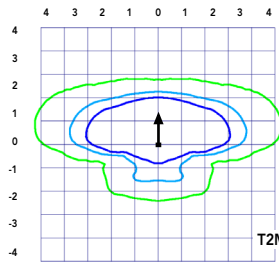
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').

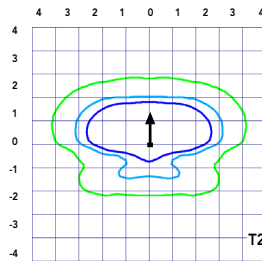
LEGEND



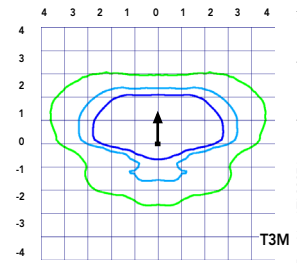
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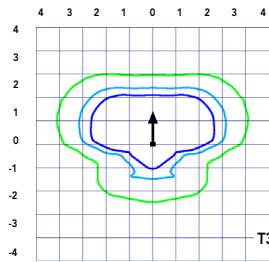
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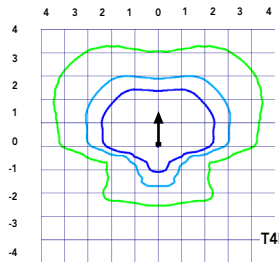
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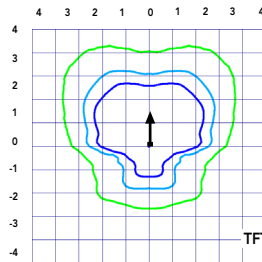
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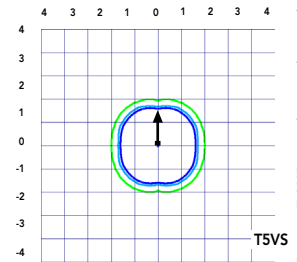
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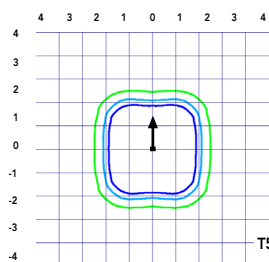
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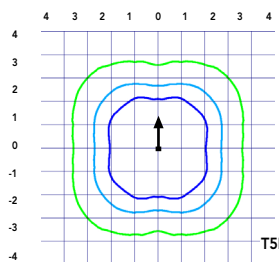
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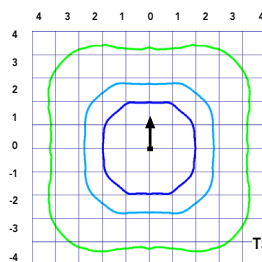
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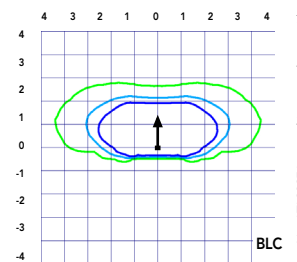
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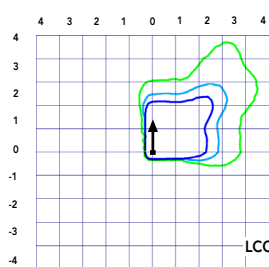
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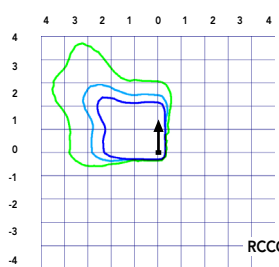
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Test No. LTL23271 tested in accordance with IESNA LM-79-08.



Test No. LTL23211 tested in accordance with IESNA LM-79-08.



Test No. LTL23164B tested in accordance with IESNA LM-79-08.

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use when motion sensor is used as dusk to dawn control.

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

Controls Options				
Nomenclature	Description	Functionality	Primary control device	Notes
FA0	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FA0 device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	P1	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131
				TSVS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136
				TSS	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136
				TSM	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136
				TSW	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
30	700	P2	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129
				T2S	8,240	2	0	2	118	8,877	2	0	2	127	8,989	2	0	2	128
				T2M	8,283	2	0	2	118	8,923	2	0	2	127	9,036	2	0	2	129
				T3S	8,021	2	0	2	115	8,641	2	0	2	123	8,751	2	0	2	125
				T3M	8,263	2	0	2	118	8,901	2	0	2	127	9,014	2	0	2	129
				T4M	8,083	2	0	2	115	8,708	2	0	2	124	8,818	2	0	2	126
				TFTM	8,257	2	0	2	118	8,896	2	0	2	127	9,008	2	0	2	129
				TSVS	8,588	3	0	0	123	9,252	3	0	0	132	9,369	3	0	0	134
				TSS	8,595	3	0	1	123	9,259	3	0	1	132	9,376	3	0	1	134
				TSM	8,573	3	0	2	122	9,236	3	0	2	132	9,353	3	0	2	134
				TSW	8,517	3	0	2	122	9,175	4	0	2	131	9,291	4	0	2	133
				BLC	6,770	1	0	2	97	7,293	1	0	2	104	7,386	1	0	2	106
				LCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
				RCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
30	1050	P3	102W	T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125
				TSVS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130
				TSS	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130
				TSM	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130
				TSW	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
30	1250	P4	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117
				T2S	13,421	3	0	3	107	14,458	3	0	3	116	14,641	3	0	3	117
				T2M	13,490	2	0	2	108	14,532	3	0	3	116	14,716	3	0	3	118
				T3S	13,064	3	0	3	105	14,074	3	0	3	113	14,252	3	0	3	114
				T3M	13,457	2	0	2	108	14,497	2	0	2	116	14,681	2	0	2	117
				T4M	13,165	2	0	3	105	14,182	2	0	3	113	14,362	2	0	3	115
				TFTM	13,449	2	0	3	108	14,488	2	0	3	116	14,672	2	0	3	117
				TSVS	13,987	4	0	1	112	15,068	4	0	1	121	15,259	4	0	1	122
				TSS	13,999	3	0	1	112	15,080	3	0	1	121	15,271	3	0	1	122
				TSM	13,963	4	0	2	112	15,042	4	0	2	120	15,233	4	0	2	122
				TSW	13,872	4	0	3	111	14,944	4	0	3	120	15,133	4	0	3	121
				BLC	11,027	1	0	2	88	11,879	1	0	2	95	12,029	1	0	2	96
				LCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
				RCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
30	1400	P5	138W	T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116
				TSVS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121
				TSS	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121
				TSM	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121
				TSW	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71
				RCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Output

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Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123
				T5S	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123
				TSM	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123
				TSW	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115
				T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114
				T2M	19,305	3	0	3	105	20,797	3	0	3	114	21,060	3	0	3	115
				T3S	18,696	3	0	3	102	20,141	3	0	3	110	20,396	3	0	4	111
				T3M	19,258	3	0	3	105	20,746	3	0	3	113	21,009	3	0	3	115
				T4M	18,840	3	0	4	103	20,296	3	0	4	111	20,553	3	0	4	112
				TFTM	19,246	3	0	4	105	20,734	3	0	4	113	20,996	3	0	4	115
				TSVS	20,017	4	0	1	109	21,564	4	0	1	118	21,837	4	0	1	119
				T5S	20,033	4	0	2	109	21,581	4	0	2	118	21,854	4	0	2	119
				TSM	19,983	4	0	2	109	21,527	5	0	3	118	21,799	5	0	3	119
				TSW	19,852	5	0	3	108	21,386	5	0	3	117	21,656	5	0	3	118
				BLC	15,780	2	0	3	86	16,999	2	0	3	93	17,214	2	0	3	94
				LCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
				RCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
60	1050	P8	207W	T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123
				T5S	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116
				T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116
				T2M	25,680	3	0	3	107	27,664	3	0	3	115	28,014	3	0	3	116
				T3S	24,870	3	0	4	103	26,791	3	0	4	111	27,130	3	0	4	113
				T3M	25,617	3	0	4	106	27,597	3	0	4	115	27,946	3	0	4	116
				T4M	25,061	3	0	4	104	26,997	3	0	4	112	27,339	3	0	4	113
				TFTM	25,602	3	0	4	106	27,580	3	0	4	114	27,929	3	0	4	116
				TSVS	26,626	5	0	1	110	28,684	5	0	1	119	29,047	5	0	1	121
				T5S	26,648	4	0	2	111	28,707	5	0	2	119	29,070	5	0	2	121
				TSM	26,581	5	0	3	110	28,635	5	0	3	119	28,997	5	0	3	120
				TSW	26,406	5	0	4	110	28,447	5	0	4	118	28,807	5	0	4	120
				BLC	20,990	2	0	3	87	22,612	2	0	3	94	22,898	2	0	3	95
				LCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71
				RCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137
				TSVS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138
				TSS	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136
				TSM	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136
				TSW	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80
60	700	P11	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132
				T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131
				TFTM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134
				TSVS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135
				TSS	16,832	4	0	1	123	18,133	4	0	2	132	18,362	4	0	2	134
				TSM	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134
				TSW	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79
60	1050	P12	207W	T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123
				TSVS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124
				TSS	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72
60	1250	P13	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121
				T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119
				TFTM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122
				TSVS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123
				TSS	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122
				TSM	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122
				TSW	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72
				RCCO	15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72

Attachment: Packet Docs (5712 : Mequon Medical)

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product.

Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/customer-support/terms-and-conditions

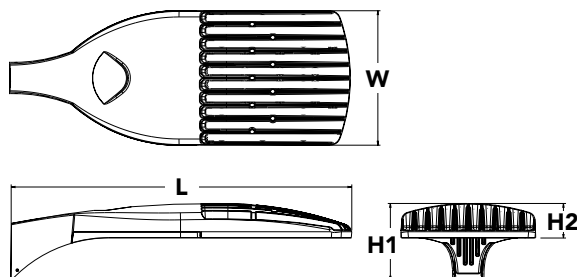
Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Specifications

Weight (max): 27 lbs
(12.2 kg)

 A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAR2 PIRHN DDBXI

DSX1 LED	P2	40K	T3M	MVOLT	SPA
Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	Forward optics	30K 3000 K	T1S Type I short T5VS Type V very short ²	MVOLT ⁴	Shipped included
	P1 P4 P7	40K 4000 K	T2S Type II short T5S Type V short ²	120 ⁵	SPA Square pole mounting
	P2 P5 P8	50K 5000 K	T2M Type II medium T5M Type V medium ²	208 ⁵	RPA Round pole mounting
	P3 P6 P9		T3S Type III short T5W Type V wide ²	240 ⁵	WBA Wall bracket ²
	Rotated optics		T3M Type III medium BLC Backlight control ³	277 ⁵	SPUMBA Square pole universal mounting adaptor ⁶
	P10 ¹ P12 ¹		T4M Type IV medium LCCO Left corner cutoff ³	347 ⁵	RPUMBA Round pole universal mounting adaptor ⁶
	P11 ¹ P13 ¹		TFTM Forward throw medium RCCO Right corner cutoff ³	480 ⁵	Shipped separately
					KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁷

PIRH		* (VERIFY W/ ARCH)	
Control options		Other options	
Shipped installed		Shipped installed	
NLTAIR2	nLight AIR generation 2 enabled ⁸	HS	House-side shield ¹⁸
PIRHN	Network, high/low motion/ambient sensor ⁹	SF	Single fuse (120, 277, 347V) ⁵
PER	NEMA twist-lock receptacle only (controls ordered separate) ¹⁰	DF	Double fuse (208, 240, 480V) ⁵
PER5	Five-pin receptacle only (controls ordered separate) ^{10,11}	L90	Left rotated optics ¹
PER7	Seven-pin receptacle only (controls ordered separate) ^{10,11}	R90	Right rotated optics ¹
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹³	Shipped separately	
DS	Dual switching ^{13,14,15}	BS	Bird spikes ¹⁹
		EGS	External glare shield
PIR	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc ^{16,17}	DDBXD	Dark bronze
PIRH	High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ^{16,17}	DBLXD	Black
PIR1FC3V	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{16,17}	DNAXD	Natural aluminum
PIRH1FC3V	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{16,17}	DWHXD	White
FAO	Field adjustable output ¹⁵	DBHTXD	Textured dark bronze
		DBLBXD	Textured black
		DNATXD	Textured natural aluminum
		DWHGXD	Textured white

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁰
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁰
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁰
DSHORT SBK U	Shorting cap ²⁰
DSX1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 ¹⁸
DSX1HS 40C U	House-side shield for P6 and P7 ¹⁸
DSX1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 ¹⁸
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) ²¹
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ⁷
DSX1EGS (FINISH) U	External glare shield

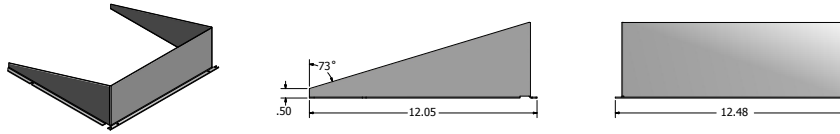
For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- Any Type 5 distribution, is not available with WBA.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
- If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
- DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits with isolated neutral. See Outdoor Control Technical Guide for details.
- Reference Motion Sensor table on page 4.
- Reference controls options table on page 4 to see functionality.
- Not available with other dimming controls options
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

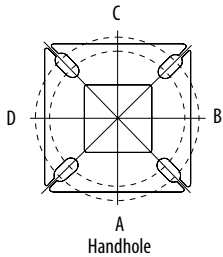
Options

EGS - External Glare Shield



Drilling

HANDHOLE ORIENTATION



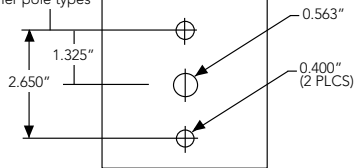
Tenon Mounting Slipfitter**

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
2-3/8"	SPA/RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 320	AS3-5 390	AS3-5 490
	SPUMBA	AS3-5 190	AS3-5 280	AS4-5 290	AS3-5 320	AS4-5 390	AS4-5 490
	RUPUMBA	AS3-5 190	AS3-5 280		AS3-5 320		
2-7/8"	SPA/RPA	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
	SPUMBA	AST25-190	AST25-280		AST25-320		
	RUPUMBA	AST25-190	AST25-280		AST25-320		
4"	SPA/RPA	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490
	SPUMBA	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490
	RUPUMBA	AST35-190	AST35-280		AST35-320		

Template #8

Top of Pole

1.75" for aluminum poles
2.75" for other pole types



Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

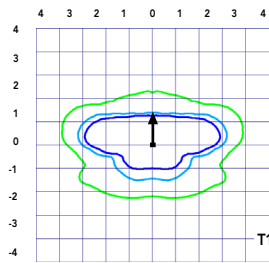
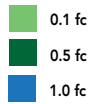
	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RUPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

Photometric Diagrams

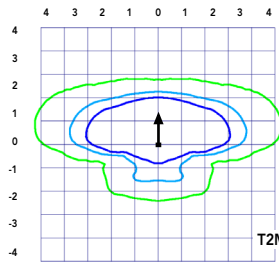
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').

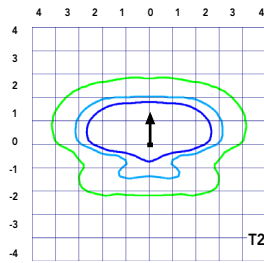
LEGEND



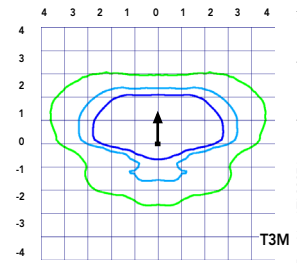
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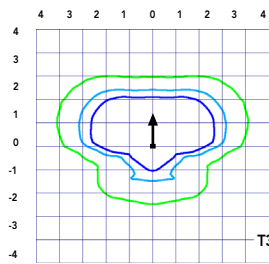
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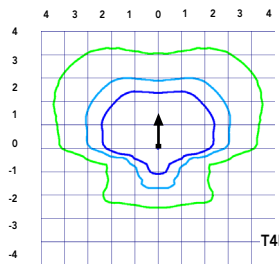
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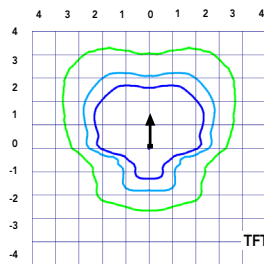
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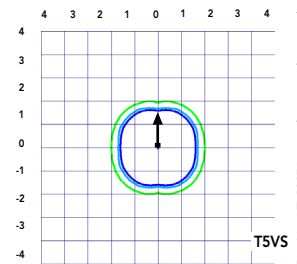
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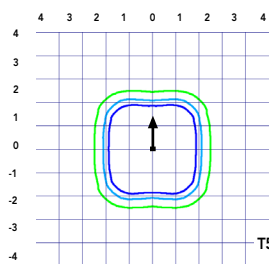
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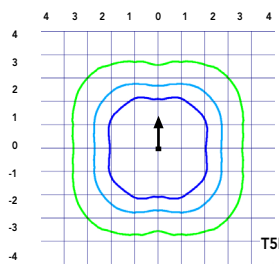
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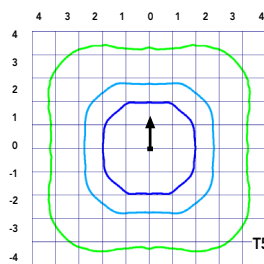
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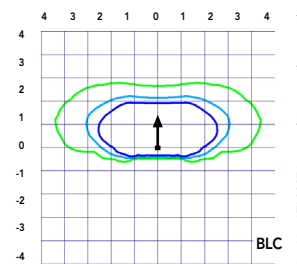
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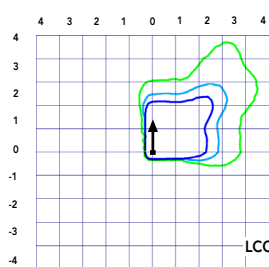
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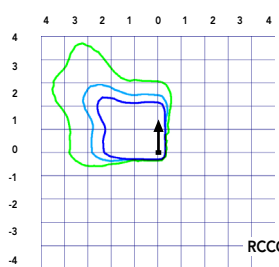
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Test No. LTL23271 tested in accordance with IESNA LM-79-08.



Test No. LTL23211 tested in accordance with IESNA LM-79-08.



Test No. LTL23164B tested in accordance with IESNA LM-79-08.

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use when motion sensor is used as dusk to dawn control.

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

Controls Options				
Nomenclature	Description	Functionality	Primary control device	Notes
FA0	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FA0 device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	P1	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131
				TSVS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136
				TSS	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136
				TSM	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136
				TSW	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
30	700	P2	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129
				T2S	8,240	2	0	2	118	8,877	2	0	2	127	8,989	2	0	2	128
				T2M	8,283	2	0	2	118	8,923	2	0	2	127	9,036	2	0	2	129
				T3S	8,021	2	0	2	115	8,641	2	0	2	123	8,751	2	0	2	125
				T3M	8,263	2	0	2	118	8,901	2	0	2	127	9,014	2	0	2	129
				T4M	8,083	2	0	2	115	8,708	2	0	2	124	8,818	2	0	2	126
				TFTM	8,257	2	0	2	118	8,896	2	0	2	127	9,008	2	0	2	129
				TSVS	8,588	3	0	0	123	9,252	3	0	0	132	9,369	3	0	0	134
				TSS	8,595	3	0	1	123	9,259	3	0	1	132	9,376	3	0	1	134
				TSM	8,573	3	0	2	122	9,236	3	0	2	132	9,353	3	0	2	134
				TSW	8,517	3	0	2	122	9,175	4	0	2	131	9,291	4	0	2	133
				BLC	6,770	1	0	2	97	7,293	1	0	2	104	7,386	1	0	2	106
				LCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
				RCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
30	1050	P3	102W	T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125
				TSVS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130
				TSS	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130
				TSM	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130
				TSW	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
30	1250	P4	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117
				T2S	13,421	3	0	3	107	14,458	3	0	3	116	14,641	3	0	3	117
				T2M	13,490	2	0	2	108	14,532	3	0	3	116	14,716	3	0	3	118
				T3S	13,064	3	0	3	105	14,074	3	0	3	113	14,252	3	0	3	114
				T3M	13,457	2	0	2	108	14,497	2	0	2	116	14,681	2	0	2	117
				T4M	13,165	2	0	3	105	14,182	2	0	3	113	14,362	2	0	3	115
				TFTM	13,449	2	0	3	108	14,488	2	0	3	116	14,672	2	0	3	117
				TSVS	13,987	4	0	1	112	15,068	4	0	1	121	15,259	4	0	1	122
				TSS	13,999	3	0	1	112	15,080	3	0	1	121	15,271	3	0	1	122
				TSM	13,963	4	0	2	112	15,042	4	0	2	120	15,233	4	0	2	122
				TSW	13,872	4	0	3	111	14,944	4	0	3	120	15,133	4	0	3	121
				BLC	11,027	1	0	2	88	11,879	1	0	2	95	12,029	1	0	2	96
				LCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
				RCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
30	1400	P5	138W	T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116
				TSVS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121
				TSS	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121
				TSM	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121
				TSW	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71
				RCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123
				T5S	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123
				T5M	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123
				T5W	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115
				T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114
				T2M	19,305	3	0	3	105	20,797	3	0	3	114	21,060	3	0	3	115
				T3S	18,696	3	0	3	102	20,141	3	0	3	110	20,396	3	0	4	111
				T3M	19,258	3	0	3	105	20,746	3	0	3	113	21,009	3	0	3	115
				T4M	18,840	3	0	4	103	20,296	3	0	4	111	20,553	3	0	4	112
				TFTM	19,246	3	0	4	105	20,734	3	0	4	113	20,996	3	0	4	115
				TSVS	20,017	4	0	1	109	21,564	4	0	1	118	21,837	4	0	1	119
				T5S	20,033	4	0	2	109	21,581	4	0	2	118	21,854	4	0	2	119
				T5M	19,983	4	0	2	109	21,527	5	0	3	118	21,799	5	0	3	119
				T5W	19,852	5	0	3	108	21,386	5	0	3	117	21,656	5	0	3	118
				BLC	15,780	2	0	3	86	16,999	2	0	3	93	17,214	2	0	3	94
				LCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
				RCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
60	1050	P8	207W	T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123
				T5S	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				T5W	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116
				T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116
				T2M	25,680	3	0	3	107	27,664	3	0	3	115	28,014	3	0	3	116
				T3S	24,870	3	0	4	103	26,791	3	0	4	111	27,130	3	0	4	113
				T3M	25,617	3	0	4	106	27,597	3	0	4	115	27,946	3	0	4	116
				T4M	25,061	3	0	4	104	26,997	3	0	4	112	27,339	3	0	4	113
				TFTM	25,602	3	0	4	106	27,580	3	0	4	114	27,929	3	0	4	116
				TSVS	26,626	5	0	1	110	28,684	5	0	1	119	29,047	5	0	1	121
				T5S	26,648	4	0	2	111	28,707	5	0	2	119	29,070	5	0	2	121
				T5M	26,581	5	0	3	110	28,635	5	0	3	119	28,997	5	0	3	120
				T5W	26,406	5	0	4	110	28,447	5	0	4	118	28,807	5	0	4	120
				BLC	20,990	2	0	3	87	22,612	2	0	3	94	22,898	2	0	3	95
				LCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71
				RCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137
				TSVS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138
				TSS	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136
				TSM	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136
				TSW	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80
60	700	P11	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132
				T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131
				TFTM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134
				TSVS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135
				TSS	16,832	4	0	1	123	18,133	4	0	2	132	18,362	4	0	2	134
				TSM	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134
				TSW	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79
60	1050	P12	207W	T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123
				TSVS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124
				TSS	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72
60	1250	P13	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121
				T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119
				TFTM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122
				TSVS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123
				TSS	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122
				TSM	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122
				TSW	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72
				RCCO	15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72

Attachment: Packet Docs (5712 : Mequon Medical)

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product.

Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



COMMERCIAL OUTDOOR

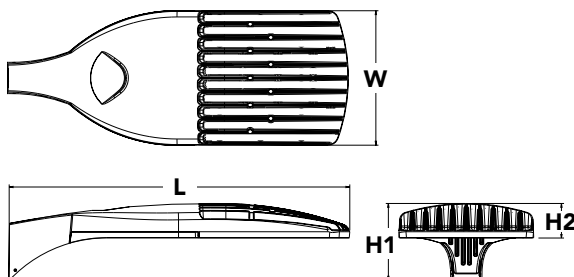
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DSX1-LEU

Rev. 01/20/20

Packet Pg. 81

EPA:	1.01 ft ² (0.09 m ²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height H1:	7-1/2" (19.0 cm)
Height H2:	3-1/2"
Weight (max):	27 lbs (12.2 kg)



PIRH		* (VERIFY W/ ARCH)	
Control options		Other options	Finish <i>(required)</i>
Shipped installed		Shipped installed	DDBXD Dark bronze
NLTAR2	nLight AIR generation 2 enabled ⁸	HS House-side shield ¹⁸	DBLXD Black
PIRHN	Network, high/low motion/ambient sensor ⁹	SF Single fuse (120, 277, 347V) ⁵	DNAXD Natural aluminum
PER	NEMA twist-lock receptacle only (controls ordered separate) ¹⁰	DF Double fuse (208, 240, 480V) ⁵	DWHXD White
PER5	Five-pin receptacle only (controls ordered separate) ^{10,11}	L90 Left rotated optics ¹	DDBTXD Textured dark bronze
PER7	Seven-pin receptacle only (controls ordered separate) ^{10,11}	R90 Right rotated optics ¹	DBLBXD Textured black
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹³	Shipped separately	DNATXD Textured natural aluminum
DS	Dual switching ^{13,14,15}	BS Bird spikes ¹⁹	DWHGXD Textured white
		EGS External glare shield	
PIR	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc ^{16,17}		
PIRH	High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ^{16,17}		
PIR1FC3V	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{16,17}		
PIRH1FC3V	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{16,17}		
FAO	Field adjustable output ¹⁵		

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁰
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁰
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁰
DSHORT SBK U	Shorting cap ²⁰
DSX1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 ¹⁸
DSX1HS 40C U	House-side shield for P6 and P7 ¹⁸
DSX1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 ¹⁸
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) ²¹
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ⁷
DSX1EGS (FINISH) U	External glare shield

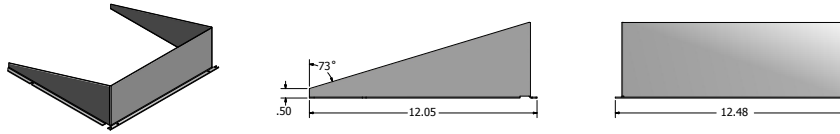
For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- Any Type 5 distribution, is not available with WBA.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
- If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
- DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits with isolated neutral. See Outdoor Control Technical Guide for details.
- Reference Motion Sensor table on page 4.
- Reference controls options table on page 4 to see functionality.
- Not available with other dimming controls options
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

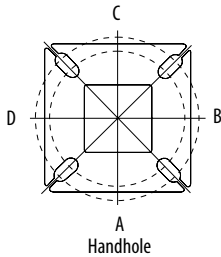
Options

EGS - External Glare Shield



Drilling

HANDHOLE ORIENTATION



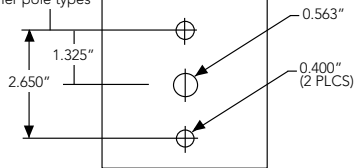
Tenon Mounting Slipfitter**

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
2-3/8"	SPA/RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 320	AS3-5 390	AS3-5 490
	SPUMBA	AS3-5 190	AS3-5 280	AS4-5 290	AS3-5 320	AS4-5 390	AS4-5 490
	RUPUMBA	AS3-5 190	AS3-5 280		AS3-5 320		
2-7/8"	SPA/RPA	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
	SPUMBA	AST25-190	AST25-280		AST25-320		
	RUPUMBA	AST25-190	AST25-280		AST25-320		
4"	SPA/RPA	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490
	SPUMBA	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490
	RUPUMBA	AST35-190	AST35-280		AST35-320		

Template #8

Top of Pole

1.75" for aluminum poles
2.75" for other pole types



Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

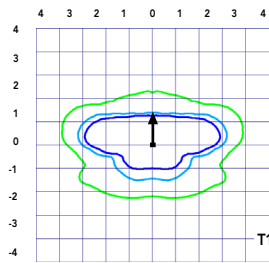
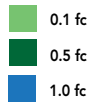
	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RUPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

Photometric Diagrams

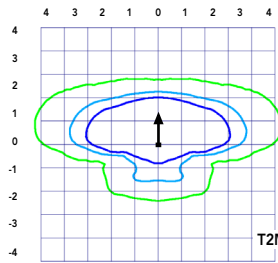
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').

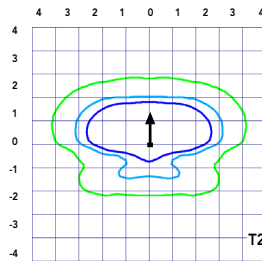
LEGEND



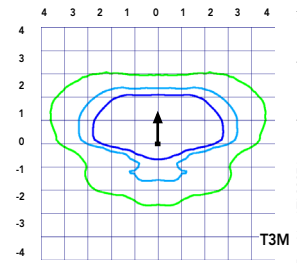
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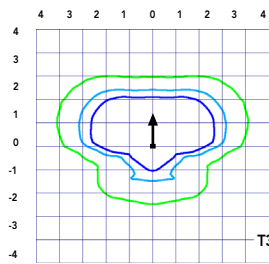
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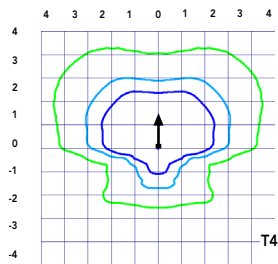
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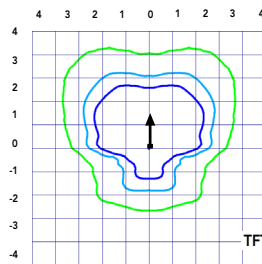
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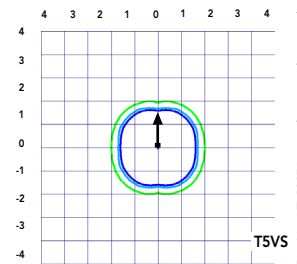
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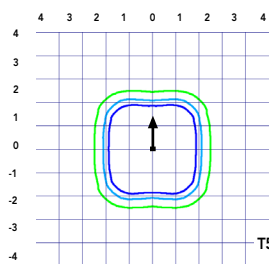
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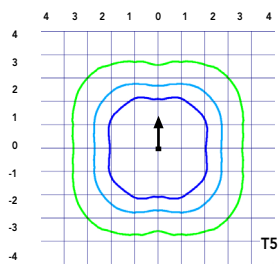
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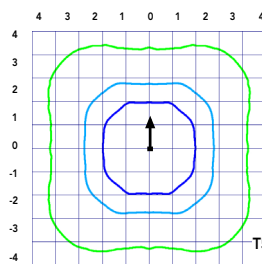
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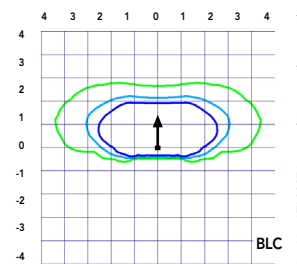
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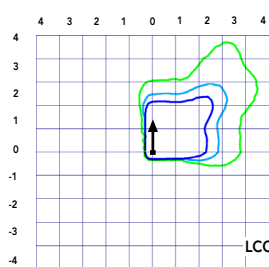
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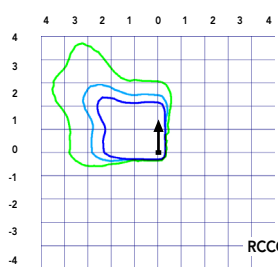
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Test No. LTL23271 tested in accordance with IESNA LM-79-08.



Test No. LTL23211 tested in accordance with IESNA LM-79-08.



Test No. LTL23164B tested in accordance with IESNA LM-79-08.

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use when motion sensor is used as dusk to dawn control.

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

Controls Options				
Nomenclature	Description	Functionality	Primary control device	Notes
FA0	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FA0 device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	P1	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131
				TSVS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136
				TSS	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136
				TSM	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136
				TSW	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
30	700	P2	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129
				T2S	8,240	2	0	2	118	8,877	2	0	2	127	8,989	2	0	2	128
				T2M	8,283	2	0	2	118	8,923	2	0	2	127	9,036	2	0	2	129
				T3S	8,021	2	0	2	115	8,641	2	0	2	123	8,751	2	0	2	125
				T3M	8,263	2	0	2	118	8,901	2	0	2	127	9,014	2	0	2	129
				T4M	8,083	2	0	2	115	8,708	2	0	2	124	8,818	2	0	2	126
				TFTM	8,257	2	0	2	118	8,896	2	0	2	127	9,008	2	0	2	129
				TSVS	8,588	3	0	0	123	9,252	3	0	0	132	9,369	3	0	0	134
				TSS	8,595	3	0	1	123	9,259	3	0	1	132	9,376	3	0	1	134
				TSM	8,573	3	0	2	122	9,236	3	0	2	132	9,353	3	0	2	134
				TSW	8,517	3	0	2	122	9,175	4	0	2	131	9,291	4	0	2	133
				BLC	6,770	1	0	2	97	7,293	1	0	2	104	7,386	1	0	2	106
				LCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
				RCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
30	1050	P3	102W	T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125
				TSVS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130
				TSS	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130
				TSM	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130
				TSW	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
30	1250	P4	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117
				T2S	13,421	3	0	3	107	14,458	3	0	3	116	14,641	3	0	3	117
				T2M	13,490	2	0	2	108	14,532	3	0	3	116	14,716	3	0	3	118
				T3S	13,064	3	0	3	105	14,074	3	0	3	113	14,252	3	0	3	114
				T3M	13,457	2	0	2	108	14,497	2	0	2	116	14,681	2	0	2	117
				T4M	13,165	2	0	3	105	14,182	2	0	3	113	14,362	2	0	3	115
				TFTM	13,449	2	0	3	108	14,488	2	0	3	116	14,672	2	0	3	117
				TSVS	13,987	4	0	1	112	15,068	4	0	1	121	15,259	4	0	1	122
				TSS	13,999	3	0	1	112	15,080	3	0	1	121	15,271	3	0	1	122
				TSM	13,963	4	0	2	112	15,042	4	0	2	120	15,233	4	0	2	122
				TSW	13,872	4	0	3	111	14,944	4	0	3	120	15,133	4	0	3	121
				BLC	11,027	1	0	2	88	11,879	1	0	2	95	12,029	1	0	2	96
				LCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
				RCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
30	1400	P5	138W	T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116
				TSVS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121
				TSS	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121
				TSM	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121
				TSW	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71
				RCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123
				T5S	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123
				TSM	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123
				TSW	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115
				T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114
				T2M	19,305	3	0	3	105	20,797	3	0	3	114	21,060	3	0	3	115
				T3S	18,696	3	0	3	102	20,141	3	0	3	110	20,396	3	0	4	111
				T3M	19,258	3	0	3	105	20,746	3	0	3	113	21,009	3	0	3	115
				T4M	18,840	3	0	4	103	20,296	3	0	4	111	20,553	3	0	4	112
				TFTM	19,246	3	0	4	105	20,734	3	0	4	113	20,996	3	0	4	115
				TSVS	20,017	4	0	1	109	21,564	4	0	1	118	21,837	4	0	1	119
				T5S	20,033	4	0	2	109	21,581	4	0	2	118	21,854	4	0	2	119
				TSM	19,983	4	0	2	109	21,527	5	0	3	118	21,799	5	0	3	119
				TSW	19,852	5	0	3	108	21,386	5	0	3	117	21,656	5	0	3	118
				BLC	15,780	2	0	3	86	16,999	2	0	3	93	17,214	2	0	3	94
				LCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
				RCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
60	1050	P8	207W	T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123
				T5S	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116
				T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116
				T2M	25,680	3	0	3	107	27,664	3	0	3	115	28,014	3	0	3	116
				T3S	24,870	3	0	4	103	26,791	3	0	4	111	27,130	3	0	4	113
				T3M	25,617	3	0	4	106	27,597	3	0	4	115	27,946	3	0	4	116
				T4M	25,061	3	0	4	104	26,997	3	0	4	112	27,339	3	0	4	113
				TFTM	25,602	3	0	4	106	27,580	3	0	4	114	27,929	3	0	4	116
				TSVS	26,626	5	0	1	110	28,684	5	0	1	119	29,047	5	0	1	121
				T5S	26,648	4	0	2	111	28,707	5	0	2	119	29,070	5	0	2	121
				TSM	26,581	5	0	3	110	28,635	5	0	3	119	28,997	5	0	3	120
				TSW	26,406	5	0	4	110	28,447	5	0	4	118	28,807	5	0	4	120
				BLC	20,990	2	0	3	87	22,612	2	0	3	94	22,898	2	0	3	95
				LCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71
				RCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137
				TSVS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138
				TSS	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136
				TSM	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136
				TSW	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80
60	700	P11	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132
				T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131
				TFTM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134
				TSVS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135
				TSS	16,832	4	0	1	123	18,133	4	0	2	132	18,362	4	0	2	134
				TSM	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134
				TSW	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79
60	1050	P12	207W	T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123
				TSVS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124
				TSS	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72
60	1250	P13	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121
				T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119
				TFTM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122
				TSVS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123
				TSS	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122
				TSM	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122
				TSW	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72
				RCCO	15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72

Attachment: Packet Docs (5712 : Mequon Medical)

Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product.

Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



COMMERCIAL OUTDOOR

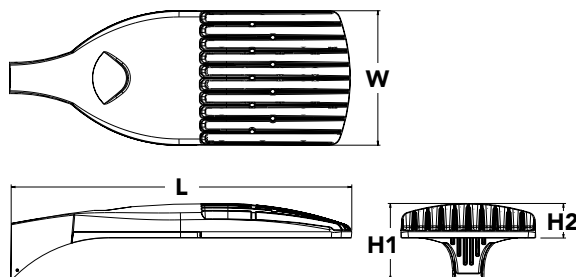
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DSX1-LEU

Rev. 01/20/20

Packet Pg. 89

EPA:	1.01 ft ² (0.09 m ²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height H1:	7-1/2" (19.0 cm)
Height H2:	3-1/2"
Weight (max):	27 lbs (12.2 kg)



Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAR2 PIRHN DDBXI

DSX1 LED	P2	40K	T3M	MVOLT	SPA
Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	Forward optics	30K 3000 K	T1S Type I short	MVOLT ⁴ 120 ⁵ 208 ⁵ 240 ⁵ 277 ⁵ 347 ⁵ 480 ⁵	Shipped included
	P1 P4 P7	40K 4000 K	T2S Type II short		SPA Square pole mounting
	P2 P5 P8	50K 5000 K	T2M Type II medium		RPA Round pole mounting
	P3 P6 P9		T3S Type III short		WBA Wall bracket ²
	Rotated optics		T3M Type III medium		SPUMBA Square pole universal mounting adaptor ⁶
	P10 ¹ P12 ¹		T4M Type IV medium		RPUMBA Round pole universal mounting adaptor ⁶
	P11 ¹ P13 ¹		TFTM Forward throw medium		Shipped separately
					KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁷

PIRH				* (VERIFY W/ ARCH)	
Control options		Other options		Finish <i>(required)</i>	
Shipped installed		Shipped installed			
NLTAIR2	nLight AIR generation 2 enabled ⁸	HS	House-side shield ¹⁸	DDBXD	Dark bronze
PIRHN	Network, high/low motion/ambient sensor ⁹	SF	Single fuse (120, 277, 347V) ⁵	DBLXD	Black
PER	NEMA twist-lock receptacle only (controls ordered separate) ¹⁰	DF	Double fuse (208, 240, 480V) ⁵	DNAXD	Natural aluminum
PER5	Five-pin receptacle only (controls ordered separate) ^{10,11}	L90	Left rotated optics ¹	DWHXD	White
PER7	Seven-pin receptacle only (controls ordered separate) ^{10,11}	R90	Right rotated optics ¹	DDBTXD	Textured dark bronze
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹³	Shipped separately		DBLBXD	Textured black
DS	Dual switching ^{13,14,15}	BS	Bird spikes ¹⁹	DNATXD	Textured natural aluminum
		EGS	External glare shield	DWHGXD	Textured white
PIR	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc ^{16,17}				
PIRH	High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ^{16,17}				
PIR1FC3V	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{16,17}				
PIRH1FC3V	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{16,17}				
FAO	Field adjustable output ¹⁵				

Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Attachment: Packet Docs (5712 : Mequon Medical)

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁰
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁰
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁰
DSHORT SBK U	Shorting cap ²⁰
DSX1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 ¹⁸
DSX1HS 40C U	House-side shield for P6 and P7 ¹⁸
DSX1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 ¹⁸
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) ²¹
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ⁷
DSX1EGS (FINISH) U	External glare shield

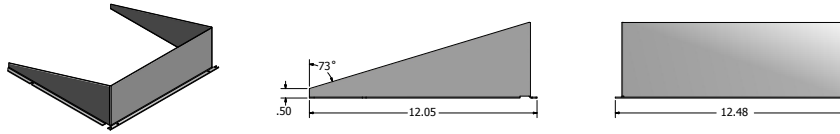
For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- Any Type 5 distribution, is not available with WBA.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
- If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
- DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits with isolated neutral. See Outdoor Control Technical Guide for details.
- Reference Motion Sensor table on page 4.
- Reference controls options table on page 4 to see functionality.
- Not available with other dimming controls options
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

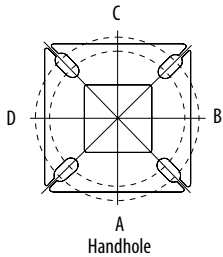
Options

EGS - External Glare Shield



Drilling

HANDHOLE ORIENTATION



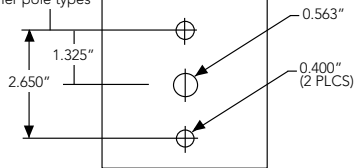
Tenon Mounting Slipfitter**

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
2-3/8"	SPA/RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 320	AS3-5 390	AS3-5 490
	SPUMBA	AS3-5 190	AS3-5 280	AS4-5 290	AS3-5 320	AS4-5 390	AS4-5 490
	RUPUMBA	AS3-5 190	AS3-5 280		AS3-5 320		
2-7/8"	SPA/RPA	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
	SPUMBA	AST25-190	AST25-280		AST25-320		
	RUPUMBA	AST25-190	AST25-280		AST25-320		
4"	SPA/RPA	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490
	SPUMBA	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490
	RUPUMBA	AST35-190	AST35-280		AST35-320		

Template #8

Top of Pole

1.75" for aluminum poles
2.75" for other pole types



Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

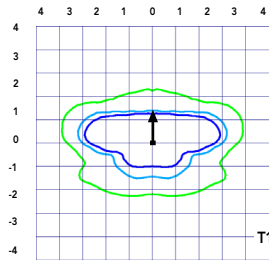
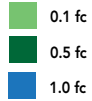
	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RUPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

Photometric Diagrams

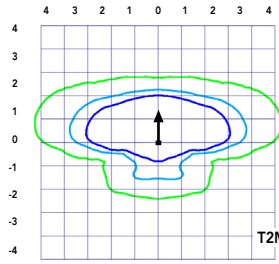
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').

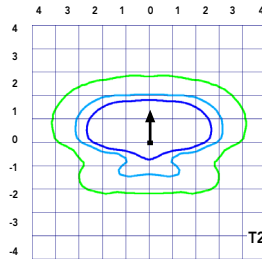
LEGEND



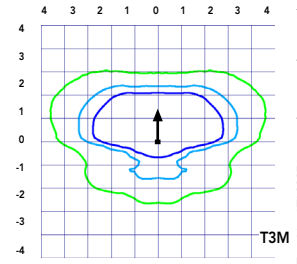
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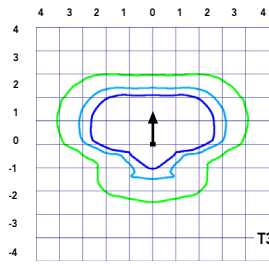
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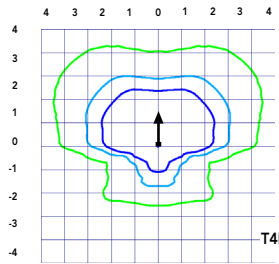
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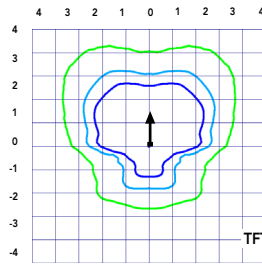
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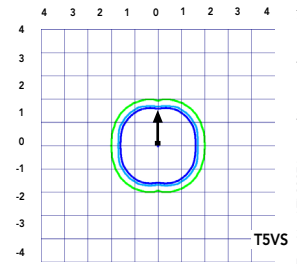
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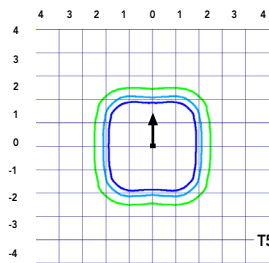
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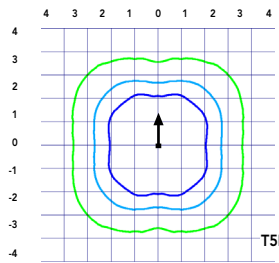
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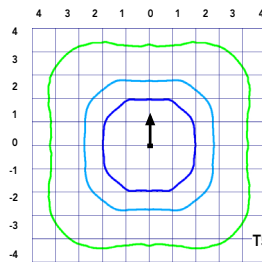
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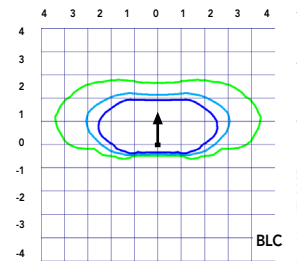
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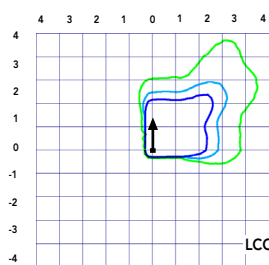
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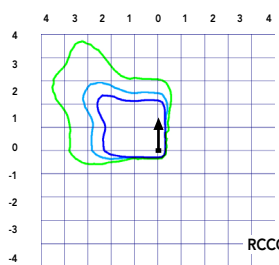
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Test No. LTL23271 tested in accordance with IESNA LM-79-08.



Test No. LTL23211 tested in accordance with IESNA LM-79-08.



Test No. LTL23164B tested in accordance with IESNA LM-79-08.

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use when motion sensor is used as dusk to dawn control.

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

Controls Options				
Nomenclature	Description	Functionality	Primary control device	Notes
FA0	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FA0 device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	P1	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131
				TSVS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136
				TSS	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136
				TSM	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136
				TSW	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
30	700	P2	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129
				T2S	8,240	2	0	2	118	8,877	2	0	2	127	8,989	2	0	2	128
				T2M	8,283	2	0	2	118	8,923	2	0	2	127	9,036	2	0	2	129
				T3S	8,021	2	0	2	115	8,641	2	0	2	123	8,751	2	0	2	125
				T3M	8,263	2	0	2	118	8,901	2	0	2	127	9,014	2	0	2	129
				T4M	8,083	2	0	2	115	8,708	2	0	2	124	8,818	2	0	2	126
				TFTM	8,257	2	0	2	118	8,896	2	0	2	127	9,008	2	0	2	129
				TSVS	8,588	3	0	0	123	9,252	3	0	0	132	9,369	3	0	0	134
				TSS	8,595	3	0	1	123	9,259	3	0	1	132	9,376	3	0	1	134
				TSM	8,573	3	0	2	122	9,236	3	0	2	132	9,353	3	0	2	134
				TSW	8,517	3	0	2	122	9,175	4	0	2	131	9,291	4	0	2	133
				BLC	6,770	1	0	2	97	7,293	1	0	2	104	7,386	1	0	2	106
				LCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
				RCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
30	1050	P3	102W	T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125
				TSVS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130
				TSS	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130
				TSM	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130
				TSW	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
30	1250	P4	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117
				T2S	13,421	3	0	3	107	14,458	3	0	3	116	14,641	3	0	3	117
				T2M	13,490	2	0	2	108	14,532	3	0	3	116	14,716	3	0	3	118
				T3S	13,064	3	0	3	105	14,074	3	0	3	113	14,252	3	0	3	114
				T3M	13,457	2	0	2	108	14,497	2	0	2	116	14,681	2	0	2	117
				T4M	13,165	2	0	3	105	14,182	2	0	3	113	14,362	2	0	3	115
				TFTM	13,449	2	0	3	108	14,488	2	0	3	116	14,672	2	0	3	117
				TSVS	13,987	4	0	1	112	15,068	4	0	1	121	15,259	4	0	1	122
				TSS	13,999	3	0	1	112	15,080	3	0	1	121	15,271	3	0	1	122
				TSM	13,963	4	0	2	112	15,042	4	0	2	120	15,233	4	0	2	122
				TSW	13,872	4	0	3	111	14,944	4	0	3	120	15,133	4	0	3	121
				BLC	11,027	1	0	2	88	11,879	1	0	2	95	12,029	1	0	2	96
				LCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
				RCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
30	1400	P5	138W	T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116
				TSVS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121
				TSS	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121
				TSM	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121
				TSW	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71
				RCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123
				T5S	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123
				T5M	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123
				T5W	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115
				T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114
				T2M	19,305	3	0	3	105	20,797	3	0	3	114	21,060	3	0	3	115
				T3S	18,696	3	0	3	102	20,141	3	0	3	110	20,396	3	0	4	111
				T3M	19,258	3	0	3	105	20,746	3	0	3	113	21,009	3	0	3	115
				T4M	18,840	3	0	4	103	20,296	3	0	4	111	20,553	3	0	4	112
				TFTM	19,246	3	0	4	105	20,734	3	0	4	113	20,996	3	0	4	115
				TSVS	20,017	4	0	1	109	21,564	4	0	1	118	21,837	4	0	1	119
				T5S	20,033	4	0	2	109	21,581	4	0	2	118	21,854	4	0	2	119
				T5M	19,983	4	0	2	109	21,527	5	0	3	118	21,799	5	0	3	119
				T5W	19,852	5	0	3	108	21,386	5	0	3	117	21,656	5	0	3	118
				BLC	15,780	2	0	3	86	16,999	2	0	3	93	17,214	2	0	3	94
				LCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
				RCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
60	1050	P8	207W	T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123
				T5S	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				T5W	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116
				T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116
				T2M	25,680	3	0	3	107	27,664	3	0	3	115	28,014	3	0	3	116
				T3S	24,870	3	0	4	103	26,791	3	0	4	111	27,130	3	0	4	113
				T3M	25,617	3	0	4	106	27,597	3	0	4	115	27,946	3	0	4	116
				T4M	25,061	3	0	4	104	26,997	3	0	4	112	27,339	3	0	4	113
				TFTM	25,602	3	0	4	106	27,580	3	0	4	114	27,929	3	0	4	116
				TSVS	26,626	5	0	1	110	28,684	5	0	1	119	29,047	5	0	1	121
				T5S	26,648	4	0	2	111	28,707	5	0	2	119	29,070	5	0	2	121
				T5M	26,581	5	0	3	110	28,635	5	0	3	119	28,997	5	0	3	120
				T5W	26,406	5	0	4	110	28,447	5	0	4	118	28,807	5	0	4	120
				BLC	20,990	2	0	3	87	22,612	2	0	3	94	22,898	2	0	3	95
				LCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71
				RCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71

Attachment: Packet Docs (5712 : Mequon Medical)

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137
				TSVS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138
				TSS	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136
				TSM	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136
				TSW	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80
60	700	P11	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132
				T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131
				TFTM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134
				TSVS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135
				TSS	16,832	4	0	1	123	18,133	4	0	2	132	18,362	4	0	2	134
				TSM	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134
				TSW	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79
60	1050	P12	207W	T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123
				TSVS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124
				TSS	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72
60	1250	P13	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121
				T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119
				TFTM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122
				TSVS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123
				TSS	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122
				TSM	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122
				TSW	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72
				RCCO	15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72

Attachment: Packet Docs (5712 : Mequon Medical)

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product.

Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



D-Series LED Bollard



d-series

Specifications

Diameter: 8" Round
(20.3 cm)

Height: 42"
(106.7 cm)

Weight (max): 27 lbs
(12.25 kg)



Catalog Number DSXB LEC 12C 350 40K MVOLT PE *****

Notes

Type OG

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The D-Series LED Bollard is a stylish, energy-saving, long-life solution designed to perform the way a bollard should—with zero uplight. An optical leap forward, this full cut-off luminaire will meet the most stringent of lighting codes. The D-Series LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide years of maintenance-free service.

Ordering Information

EXAMPLE: DSXB LED 16C 700 40K SYM MVOLT DDBXD

DSXB LED	12C	350	40K	ASY	MVOLT			*(VFY W/ ARCH)
Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Control options	Other options	Finish (required)
DSXB LED	Asymmetric 12C 12 LEDs ¹	350 350 mA	30K 3000 K	ASY Asymmetric ¹ SYM Symmetric ²	MVOLT ⁵ 120 ⁵ 208 ⁵ 240 ⁵ 277 ⁵ 347 ⁴	Shipped installed PE Photoelectric cell, button type DMG 00-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ELCW Emergency battery backup ⁶	Shipped installed SF Single fuse (120, 277, 347V) ^{4,7} DF Double fuse (208, 240V) ^{4,7} H24 24" overall height H30 30" overall height H36 36" overall height FG Ground-fault festoon outlet L/AB Without anchor bolts L/AB4 4-bolt retrofit base without anchor bolts ⁸	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black DDBTXD Textured dark bronze DBL BXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white
		450 450 mA ^{3,4}	40K 4000 K					
	Symmetric 16C 16 LEDs ²	530 530 mA	50K 5000 K					
		700 700 mA	AMBPC Amber phosphor converted AMBLW Amber limited wavelength ^{3,4}					

Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for DSXB⁸

NOTES

- Only available in the 12C, ASY version.
- Only available in the 16C, SYM version.
- Only available with 450 AMBLW version.
- Not available with ELCW.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
- Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- MRAB U not available with L/AB4 option.

Performance Data

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engines	Drive Current	System Watts	3000 K					4000 K					5000 K					Limited Wavelength Amber				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
Asymmetric (12 LEDs)	350	16	1,194	75	1	0	1	1,283	80	1	0	1	1,291	81	1	0	1					
	530	22	1,719	78	1	0	1	1,847	84	1	0	1	1,859	85	1	0	1					
	700	31	2,173	70	1	0	1	2,335	75	1	0	1	2,349	76	1	0	1					
	Amber 450	16																348	22	1	0	1
Symmetric (16 LEDs)	350	20	1,558	78	1	0	0	1,674	84	1	0	0	1,685	84	1	0	0					
	530	28	2,232	80	2	0	1	2,397	86	2	0	1	2,412	86	2	0	1					
	700	39	2,802	72	2	0	1	3,009	77	2	0	1	3,028	78	2	0	1					
	Amber 450	20																419	21	1	0	1

Note: Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.98	0.97	0.95

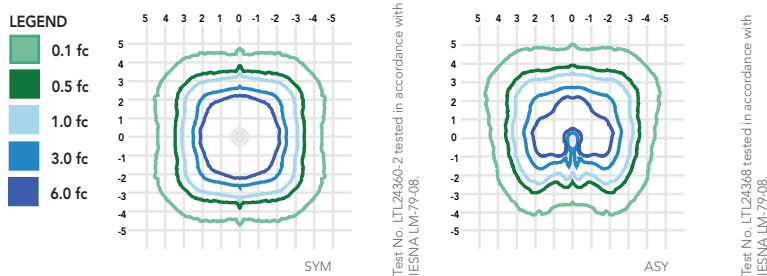
Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
12C	350	16W	0.158	0.118	0.114	0.109	0.105
	530	22W	0.217	0.146	0.136	0.128	0.118
	700	31W	0.296	0.185	0.168	0.153	0.139
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106
16C	350	20W	0.197	0.137	0.128	0.121	0.114
	530	28W	0.282	0.178	0.162	0.148	0.135
	700	39W	0.385	0.231	0.207	0.185	0.163
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Bollard homepage](#).

Isofootcandle plots for the DSXB LED 700 40K. Distances are in units of mounting height (3').



FEATURES & SPECIFICATIONS

INTENDED USE

The rugged construction and maintenance-free performance of the D-Series LED Bollard is ideal for illuminating building entryways, walking paths and pedestrian plazas, as well as any other location requiring a low-mounting-height light source.

CONSTRUCTION

One-piece 8-inch-round extruded aluminum shaft with thick side walls for extreme durability, and die-cast aluminum reflector and top cap. Die-cast aluminum mounting ring allows for easy leveling even in uneven areas and full 360-degree rotation for precise alignment during installation. Three ½" x 11" anchor bolts with double nuts and washers and 3-5/8" max. bolt circle template ensure stability. Overall height is 42" standard.

FINISH

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Two 0% uplight optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

WARRANTY

Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



November 17, 2020

Ms. Kim Tollefson, Dir. of Community Development
11333 N. Cedarburg Road 60W
Mequon, WI 53092-1930

Dear Ms. Tollefson:

I appreciate the opportunity to assist the City of Mequon with landscape architectural review services. The following is a review of the landscape plan submittal for the Ascension Health proposal located at the corner of PWR & Highland Rd. Because the proposed facility fronts on Port Washington Road, it is important to observe PWR is one of the City of Mequon's commercial corridors that the City has required a higher level of landscape treatments since 2012. This is the first review of the plan, dated 11/06/20. The Landscape plan is submitted by InSite.

The nature of this review will be to assess the landscape plan for completeness; address appropriateness of design for the Port Washington Road corridor and how the plant palette addresses the Planning Commission's request for:

1. Greater buffering;
2. Site design/Site treatments that address the adjacent uses/zoning;
3. Design treatment that addresses the Port Washington corridor;

The proposed site use is business/institutional-health. The business use will be moderately traffic intensive. The site provides two points of Ingress/Egress, the design provides access to both PWR & Highland Rd.

This Review's Commentary will be generated by applying the existing and the proposed City of Mequon Landscape Codes. This review will give consideration the use adjacencies, to the PWR corridor and the adjacent zoning.

➤ **General Overview:**

- ❖ This review pertains to Landscape Plan Set - sheets LSP1.1-LSP.6, Dated 9/21/2020, LANDSCAPE PLAN
- ❖ The plan is stamped PRELIMINARY; the submittal is not sealed by a Wisconsin RLA, as required by Mequon code.
- ❖ Sheets LSP1.1-1.2 is issued at a 1"=30' scale; Sheets LSP1.3-1.4 is issued at a 1"=16' scale the plan sheets are clean and the information is discernible.
 - As previously stated, the proposal is adjacent to the Port Washington Road Corridor;

the proposed commercial site use has two ingress/egresses off PWR. PWR is one of Mequon's regional collectors and part of the City of Mequon's designated "Gateway" roadways. Since 2012, the P&Z board has requested additional density landscape treatments and larger scale plantings, especially adjacent to the PWR ROW.

- Sustainability: This application has not given consideration to the development of sustainable site practices; the proposal is at 60% impervious surface. The landscape had an opportunity to include Bio-swale filtering, green roofs treatments or other design features to slow the Q rate of contribution.
- The plan provides an attached plant schedules with common name, scientific name, of plants specified, size specified and the total quantities, as required. Please see the review below for commentary of:
 - Proposed plant palette
 - Plant sizing requirements
 - Plant Diversity/Sustainability/Zone Hardiness
 - US Invasive Specie listings
- The plan fails to depict the proposed site lighting locations. Also, an entrance sign addressing PWR is shown on plan, but the sign's design size, elevations, lighting... specifics, is not provided.
- Provided on sheet LSP1.4, the plan notes: "Seat Wall & Signage by Municipality". I have no notes from City Planning Office to support the noted Public/Private agreement. - <To be confirmed by City Staff.>
- The plan depicts what appears to be an exterior refuse/recycle enclosure/structure. The plan details LSP1.6, fails to provide details or define what the structure is? I See notes below concerning Refuse recycle screening.
- The plan depicts a Detention/Retention pond. Since 2012, the City of Mequon has required Detention ponds to have a buffer = 20' wide x the 30% of the length of the highwater mark perimeter length. See the Detention Pond Buffer notes/recommendations below.
- ***Proposed Landscape Material Review:***

Because this proposal application did not include an aggregated "Master Plant Schedule", the review will provide a review of each of the three plant schedules, respectively: schedule LSP1.2, LSP1.3 & LSP1.4.

- **Outline of the proposed plant types and quantities found on the plan sheet LSP 1.2:**
 - Eight Deciduous Tree Species, (Total proposed deciduous trees – 41)
 - Five Evergreen Tree Species, (Total proposed conifer trees – 26)

- Ten Deciduous Shrub Species, (Total proposed decid. shrubs – 234)
- Two Evergreen Shrub Species, (Total proposed conifer shrubs – 74)
- One Perennial Species, (Total proposed ground covers/perennials –178)
- Four Decorative Grass species, (Total proposed grasses – 150)
- **Outline of the proposed plant types and quantities found on the plan sheet LSP 1.2:**
 - Two Deciduous Tree Species, (Total proposed deciduous trees – 17)
 - One Evergreen Tree Species, (Total proposed conifer trees – 9)
 - Five Deciduous Shrub Species, (Total proposed decid. shrubs – 98)
 - Three Evergreen Shrub Species, (Total proposed conifer shrubs – 76)
 - Three Perennial Species, (Total proposed ground covers/perennials –70)
 - Two Decorative Grass species, (Total proposed grasses – 71)
- **Outline of the proposed plant types and quantities found on the plan sheet LSP 1.4.1:**
 - One Deciduous Tree Species, (Total proposed deciduous trees – 4)
 - One Deciduous Shrub Species, (Total proposed decid. shrubs – 23)
 - One Perennial Species, (Total proposed ground covers/perennials –52)
 - One Decorative Grass species, (Total proposed grasses – 22)
- **Outline of the proposed plant types and quantities found on the plan sheet LSP 1.4.2:**
 - One Deciduous Tree Species, (Total proposed deciduous trees – 4)
 - Three Deciduous Shrub Species, (Total proposed decid. shrubs – 39)
 - One Evergreen Shrub Species, (Total proposed conifer shrubs – 5)
 - Four Perennial Species, (Total proposed ground covers/perennials –248)
 - Two Decorative Grass species, (Total proposed grasses – 84)
- ◆ The species proposed in all schedules have the ability to perform in the local soils and are sustainable within the USDA Zone 5a.
- ◆ TURF: The Plan requires the following specifics: 1. Specify the SQY of the proposed sod/turf; 2. Please amend plans to state the total SQR yards of the sodded area.
- ◆ POND/Detention/Retention Basin: The plan has a note calling for a “POND”; is this a wet basin or a detention basin? Please designate how the proposed pond will be planted? Will there be an edge stratification planting strategy? How is the pond bottom treated? If there is standing water in the basin, how will aeration/stagnation be treated? The designer must amend the plan to include: Retention/Detention cover treatment seed/plugs/sod as well as

the companion/starter seed for the proposed basin, the fertilizer type, application rate, means of application, the number of overseedings required, and means of overseeding delivery through 100% establishment. Please add the requested information/narrative to the plan. These basins should be required to meet the same standard as turf or the proposal should indicate if these are “retention structures” or detention structures.... and show what the retained water elevation will be and what the edge treatment is for either type.

➤ **Plant Schedule Comments:**

- The plant schedule quantities do not accurately reflect the plan graphics.
- Proposed Deciduous Tree sizes: The plant schedule specifies 2.5” caliper and 10-12’ height plantings. The City of Mequon has required a minimum of 3.5” caliper trees @ 16” above the rootball. Proposals within the PWR corridor have typically required 4.0” caliper trees @ 16” above the rootball. There are a limited number of “Ornamental” deciduous trees, these plantings should be minimally a 3” caliper < and the height shall be in alignment of the ANSI Z160 requirements provided on the plan.
- Proposed Conifer Tree Size: The plan calls for 6’ Arborvitae. Please provide 7’ conifers, as measured from the top of rootball to the top lateral branch, <not the top of the primary leader> .
- Typically, the City of Mequon does not differentiate between deciduous trees and ornamental deciduous trees; amend the schedule to include Ornamental Trees as a “stand alone” category, I would support a caliper of +3.0” caliper minimum, for true Ornamental Trees.
- The Plant Schedule correctly has specified all the deciduous trees to have a 3.5-inch caliper; as per the proposed code. As a note, the height expectations shall be Per ANSI z 60.1, the plantings shall meet both the stated caliper (@ 16” above the root ball) and the ANSI z 60.1 height equivalency. A proposed height of 10-12’ is equivalent to a 2.0”-2.5” shade tree.
- Add the following note to the plan, **Plant Requirement:** “Trees selected may meet caliper requirements, but failing to meet height requirements or root ball size requirements per ANSI z 60.1, will be rejected by the city of Mequon.”
- TURF information: Amend the plan to include the following specifics. 1. Specify the limits of proposed sod/turf; 2. The plans should state the total SQR yards of the sodded/TURF area. 3. The designer should also provide: any companion/starter seed for the site, fertilizer type, application rate, means of application, the number of over-seeding processes is required & means of over seeding delivery - through 100% TURF establishment. 4. Please add the Note: Turf acceptance by the City is based on performance. City staff retains the right to enforce turf & landscape performance by withholding Occupancy permits or holding performance bonds until performance has been met. Failure of performance after a 1-year period, will be corrected at the expense of the Owner. Failure to meet performance in a 1-year period may result in forfeiture of portions of the Performance Bond to amend any documented outstanding issues.

➤ **Planting Zone Comments:**

The submittal is organized and provides the following: 1. Street Frontage Zone; 2. Parking Lot Interior Zone; 3. Parking Lot Periphery Buffer; 4. Property Line Buffer Yard; 5. On-Lot Zone; 6. Open Space Zone; 7. Detention Basin; 8. Loading Dock Buffer

Street Frontage Zone:

- Port Washington Road & Highland Rd ROWs: The Proposed Code requires 1 approved street tree per each side of the ROW that touches the proposed development at a rate of, 1<approved street tree> per each 30 feet of CL length:

- Mequon Rd. ROW- is not addressed in this application.
- Port Washington Rd.- Is not addressed in this application.

Plan fails to address either PWR or Highland ROW. Coordinate Street Tree plantings type & density with City Staff. (Decision for action, per City Staff & P&Z)

- Additionally, Mequon has required developments along major traffic arteries <PWR> to provide additional treatments that will fill all three planting horizons. The City has requested additional perennial, ornamental grasses, conifer and deciduous shrub treatments to provide seasonal color, texture and year-round interest. This location should not be an exception.

(Plan meets the new code intent to drive visual diversity along the PWR corridor. The proposed scheme provides a nice scheme to address the City of Mequon “Gateway Corridor” emphasis. - Final recommendation per the decision of Planning Board/City Staff)

- **Parking Lot Interior Zone.** A) The layout/configuration of Canopy Trees within the Interior P-Lot Islands:

- The design minimizes the incorporation of “Interior Islands”. Yes, there are Terminal islands at each row of parking, but the integration of interior islands is minimal. This approach will do little to help break Heat-Island impacts to the P-Lot’s of the site. Since the P-lots are +40% of the total site area, this design oversight has consequences. B) The overall landscaping **will** provide 30% shade over the parking lot. But, with the small caliper trees <Ex: PycaC> proposed a high percentage of trees will be adversely impacted <broken> by snow storage/stacking. Reviewer recommends all Decid Trees to be +3.5” caliper < interior site, 4.0 caliper adjacent to PWR> (Densities just meets the new code requirements, proposed sizes do not.)

- **Parking Lot/Periphery Buffer:** The proposed Landscape Code requires 1 tree per 25 linear feet of hard surface adjacent to a ROW (not counting street trees). The combination of the proposed plantings and the existing peripheral vegetation, the proposed layout meets the buffer requirement. The landscape design approach does a nice job of addressing the 0-3’ horizon, as well as incorporating a diverse array of trees, in this buffer. This will be a visually attractive screening application. I would recommend the design team to review spacing, the plantings proximity to hard surfaces may result in unintended snow management issues and loss of landscape materials due to snow stacking along the north & east periphery of the property. (The plan meets the new P-Lot buffer/ periphery code requirements.)

- **Property Line Buffer:** Per the proposed landscape code requirements, the design adequately addresses adjacencies and buffering. Although, I would request Planning staff to clarify the size and the noise levels of the trash compactor unit. If it is an unsightly industrial application, I request the western PL planting density be readdressed. (Proposal meets the PL side yard buffer.)
- **On-Lot Zone:** Required- 1 Tree & 2 shrubs per every 1000 SF of required open space. (Requirements met)
- **Foundation Plantings:** The plan provides a strong foundation planting scheme. The density of the design circumscribing the building will help “Anchor” the structure to the land and soften the transition between the Horizontal & the Vertical” at the primary entrance and the entirety of the structure. (Proposal meets the intention of Foundation Planting requirements.)
- **Proposed Re/Detention Basins** The plan **fails** to address the Detention Basin with Buffering. Addressing the basin is a proactive measure. It helps soften the visual void of a basin with no water and it recognizes there may be adjacent development in the future. Detention basins are not a “natural feature” of the landscape and should be visually addressed by mitigating screening. Due to the size of the detention basins, I would offer the opinion that it could do with visual softening by providing additional perennial plantings, medium decid. shrubs and several Canopy Trees and Conifer trees. **See Turf commentary above for comments on the basin’s ground cover requirements.** (Proposal minimally meets the intention of Basin Planting requirements, but I recommend additional planting treatments to help fill all three plant horizons)
- **Trash Enclosure:** The Refuse/Recycle station; the plan fails to clearly describe what is taking place here.

(If the enclosure has 6’ high masonry walls, the proposal meets the proposed Trash Enclosure buffering code requirement.) Approval pending City Staff/P&Z review.

❖ ***Additional Landscape Observations:***

- This is a thoughtful landscape plan. The proposed plant palette will provide diversity and seasonal interest. I would ask the Planning Board/City Staff require the addition of increased perennial beds along PWR and along Mequon Road.
- The plan fails to address what finishes are being specified for interior of the proposed wet/dry detention basins. Amend plan to provide clear notes and, or add a plan sheet to address the finish appearance of the detention basin will be: Seeded/Sod/Plugs/armor plated/ rock covered....etc.
- The proposal is located on PWR, which is a major arterial collector and designated within the City of Mequon Strategic Plan, as a Gateway. Per the City Development Plan landscape guidelines, the City has required a higher level of landscape treatments within

Ascension & Highland - Landscape Review 2020.17.11-001
November 17, 2018
Page 7

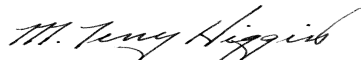
these corridors to preserve/enhance property values and improve the aesthetic within these concentrated use corridors; these standards have been applied and enforced within Mequon for the last eight years.

The plan is very close to meeting all of the City of Mequon's existing and the proposed landscape & buffering codes. There are several actions/decisions to be forwarded by P&Z and, or City Staff.

I hope planning staff and the commission finds the recommendations and information presented informative and useful.

This concludes the review of the Ascension Health PWR & Highland landscape submission.

Sincerely,



M. Terry Higgins, RLA.

Attachment: Packet Docs (5712 : Mequon Medical)