

# URBAN DESIGN COMMISSION APPLICATION

# UDC

City of Madison  
Planning Division  
Madison Municipal Building, Suite 017  
215 Martin Luther King, Jr. Blvd.  
P.O. Box 2985  
Madison, WI 53701-2985  
(608) 266-4635



## FOR OFFICE USE ONLY:

Paid \_\_\_\_\_ Receipt # \_\_\_\_\_

Date received \_\_\_\_\_

Received by \_\_\_\_\_

Aldermanic District \_\_\_\_\_

Zoning District \_\_\_\_\_

Urban Design District \_\_\_\_\_

Submission reviewed by \_\_\_\_\_

Legistar # \_\_\_\_\_

Complete all sections of this application, including the desired meeting date and the action requested.

*If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call the phone number above immediately.*

## 1. Project Information

Address: \_\_\_\_\_

Title: \_\_\_\_\_

## 2. Application Type (check all that apply) and Requested Date

UDC meeting date requested \_\_\_\_\_

New development

Alteration to an existing or previously-approved development

Informational

Initial approval

Final approval

## 3. Project Type

Project in an Urban Design District

Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)

Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)

Planned Development (PD)

General Development Plan (GDP)

Specific Implementation Plan (SIP)

Planned Multi-Use Site or Residential Building Complex

### Signage

Comprehensive Design Review (CDR)

Signage Variance (i.e. modification of signage height, area, and setback)

Signage Exception

### Other

Please specify

## 4. Applicant, Agent, and Property Owner Information

**Applicant name** \_\_\_\_\_

Company \_\_\_\_\_

Street address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Email \_\_\_\_\_

**Project contact person** \_\_\_\_\_

Company \_\_\_\_\_

Street address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Email \_\_\_\_\_

**Property owner (if not applicant)** \_\_\_\_\_

Street address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Email \_\_\_\_\_

**5. Required Submittal Materials**

- Application Form**
- Letter of Intent**
  - If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required
  - For signage applications, a summary of how the proposed signage is consistent with the applicable CDR or Signage Variance review criteria is required.
- Development Plans** (Refer to checklist on Page 4 for plan details)
- Filing fee**
- Electronic Submittal\***
- Notification to the District Alder**
  - Please provide an email to the District Alder notifying them that you are filing this UDC application. Please send this as early in the process as possible and provide a copy of that email with the submitted application.

Each submittal must include fourteen (14) 11" x 17" **collated** paper copies. Landscape and Lighting plans (if required) must be **full-sized and legible**. Please refrain from using plastic covers or spiral binding.

Both the paper copies and electronic copies must be submitted prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. A completed application form is required for each UDC appearance.

For projects also requiring Plan Commission approval, applicants must also have submitted an accepted application for Plan Commission consideration prior to obtaining any formal action (initial or final approval) from the UDC. All plans must be legible when reduced.

*\*Electronic copies of all items submitted in hard copy are required. Individual PDF files of each item submitted should be compiled on a CD or flash drive, or submitted via email to [udcapplications@cityofmadison.com](mailto:udcapplications@cityofmadison.com). The email must include the project address, project name, and applicant name. Electronic submittals via file hosting services (such as Dropbox.com) are not allowed. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.*

**6. Applicant Declarations**

1. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with Colin Punt & Jacob Maskowitz on 05/01/2019.
2. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Name of applicant Aby Mohamed Relationship to property Developer  
 Authorizing signature of property owner  Date 10/29/2021

**7. Application Filing Fees**

Fees are required to be paid with the first application for either initial or final approval of a project, unless the project is part of the combined application process involving the Urban Design Commission in conjunction with Plan Commission and/or Common Council consideration. Make checks payable to City Treasurer. Credit cards may be used for application fees of less than \$1,000.

Please consult the schedule below for the appropriate fee for your request:

- Urban Design Districts: \$350 (per §35.24(6) MGO).
- Minor Alteration in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) : \$150 (per §33.24(6)(b) MGO)
- Comprehensive Design Review: \$500 (per §31.041(3)(d)(1)(a) MGO)
- Minor Alteration to a Comprehensive Sign Plan: \$100 (per §31.041(3)(d)(1)(c) MGO)
- All other sign requests to the Urban Design Commission, including, but not limited to: appeals from the decisions of the Zoning Administrator, requests for signage variances (i.e. modifications of signage height, area, and setback), and additional sign code approvals: \$300 (per §31.041(3)(d)(2) MGO)

A filing fee is not required for the following project applications if part of the combined application process involving both Urban Design Commission and Plan Commission:

- Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
- Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
- Planned Development (PD): General Development Plan (GDP) and/or Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Residential Building Complex

## Introduction

The City of Madison's Urban Design Commission (UDC) has been created to:

- Encourage and promote high quality in the design of new buildings, developments, remodeling, and additions so as to maintain and improve the established standards of property values within the City.
- Foster civic pride in the beauty and nobler assets of the City, and in all other ways possible assure a functionally efficient and visually attractive City in the future.

## Types of Approvals

There are three types of requests considered by the UDC:

- Informational Presentation. Applicants may, at their discretion, request to make an Informational Presentation to the UDC prior to seeking any approvals to obtain early feedback and direction before undertaking detailed design. Applicants should provide details on the context of the site, design concept, site and building plans, and other relevant information to help the UDC understand the proposal and provide feedback. (Does not apply to CDR's or Signage Variance requests)
- Initial Approval. Applicants may, at their discretion, request initial approval of a proposal by presenting preliminary design information. As part of their review, the Commission will provide feedback on the design information that should be addressed at Final Approval stage.
- Final Approval. Applicants may request Final Approval of a proposal by presenting all final project details. Recommendations or concerns expressed by the UDC in the initial approval must be addressed at this time.

## Presentations to the Commission

Primarily, the UDC is interested in the appearance and design quality of projects. Emphasis should be given to the site plan, landscape plan, lighting plan, building elevations, exterior building materials, color scheme, and graphics.

When presenting projects to the UDC, applicants must fill out a registration slip provided in the meeting room and present it to the Secretary. Presentations should generally be limited to 5 minutes or as extended by motion by consent of the Commission. The Commission will withhold questions until the end of the presentation.

Applicants are encouraged to consider the use of various graphic presentation material including a locator map, photographs, renderings/model, scale drawings of the proposal in context with adjacent buildings/uses/signs, etc., as may be deemed appropriate to describe the project and its surroundings. Graphics should be mounted on rigid boards so that they may be easily displayed. **Applicants/presenters are responsible for all presentation materials, AV equipment and easels.**

# URBAN DESIGN DEVELOPMENT PLANS CHECKLIST

The items listed below are minimal application requirements for the type of approval indicated. Please note that the UDC and/or staff may require additional information in order to have a complete understanding of the project.

## 1. Informational Presentation

- Locator Map
- Letter of Intent (If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- Contextual site information, including photographs and layout of adjacent buildings/structures
- Site Plan
- Two-dimensional (2D) images of proposed buildings or structures.

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

### Requirements for All Plan Sheets

1. Title block
2. Sheet number
3. North arrow
4. Scale, both written and graphic
5. Date
6. Fully dimensioned plans, scaled at 1"= 40' or larger

*\*\* All plans must be legible, including the full-sized landscape and lighting plans (if required)*

## 2. Initial Approval

- Locator Map
- Letter of Intent (If the project is within a Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- Contextual site information, including photographs and layout of adjacent buildings/structures
- Site Plan showing location of existing and proposed buildings, walks, drives, bike lanes, bike parking, and existing trees over 18" diameter
- Landscape Plan and Plant List (*must be legible*)
- Building Elevations in both black & white and color for all building sides (include material callouts)
- PD text and Letter of Intent (if applicable)

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

## 3. Final Approval

All the requirements of the Initial Approval (see above), **plus:**

- Grading Plan
- Proposed Signage (if applicable)
- Lighting Plan, including fixture cut sheets and photometrics plan (*must be legible*)
- Utility/HVAC equipment location and screening details (with a rooftop plan if roof-mounted)
- PD text and Letter of Intent (if applicable)
- Samples of the exterior building materials (presented at the UDC meeting)

## 4. Comprehensive Design Review (CDR) and Variance Requests (Signage applications only)

- Locator Map
- Letter of Intent (a summary of how the proposed signage is consistent with the CDR or Signage Variance criteria is required)
- Contextual site information, including photographs of existing signage both on site and within proximity to the project site
- Site Plan showing the location of existing signage and proposed signage, dimensioned signage setbacks, sidewalks, driveways, and right-of-ways
- Proposed signage graphics (fully dimensioned, scaled drawings, including materials and colors, and night view)
- Perspective renderings (emphasis on pedestrian/automobile scale viewsheds)
- Illustration of the proposed signage that meets Ch. 31, MGO compared to what is being requested.
- Graphic of the proposed signage as it relates to what the Ch. 31, MGO would permit

Date: October 19, 2021

Mr. Kevin Firchow  
Principal Planner, Development Review  
City of Madison - Urban Design Commission  
215 Martin Luther King Jr. Blvd.  
Madison, Wisconsin 53703

Re: Letter of Intent – Popeye’s Madison, WI  
6831 Odana Road

Mr. Kevin Firchow

The following is submitted together with the plans and application for the staff and Urban Design Commission’s consideration of approval.

Introduction:

The existing site serves as a parking area south of the Burlington Coat Factory strip mall. The 0.97-acre site is zoned in the CC Commercial Center District and is not a part of an Urban Design District. This application seeks the approval of the proposed improvements to develop the site into the proposed Popeyes Louisiana Kitchen restaurant with a drive-thru, paved parking areas, and landscaped areas. The proposed use is considered a Conditional Use by the City of Madison.

The restaurant is anticipated operate between 10 a.m. and 10 p.m. daily. It has indoor seating for 36 patrons, 18 drive-thru spaces, 27 parking on-site parking spaces, and 4 bicycle rack spaces. Adjacent to the site along Odana Road is Bus Stop 6357, which has hourly Metro Transit service on weekdays.

This Popeyes location is anticipated to employ approximately ten community members on each shift. Construction is expected to start in spring 2022 with an opening date in summer 2022.

The project team consists of Aby Mohamed of Aby Groups, the site developer and franchisee, civil engineer Lauren Downing of Arc Design Resources, and Mary Panter of Linden Group Architects. Signage is provided by Elevate Sign Group and exterior lighting is provided by Cree.

Project Description:

This fast-food restaurant development is a new conditional use in the CC Commercial Center district.

Alder Keith Furman (District 19) has been notified of the proposed conditional use and has agreed to waive the 30-day notification waiver.

The following improvements to the site will be made:

1. Public Rights-of-Way

- a. Metro Transit stop 6357 is located at the northwest corner of the site in the Odana Road right-of-way. Pedestrian connectivity is provided to the bus stop and Odana Road sidewalk via an ADA accessible ramp to the main entrance of the building.
  - b. All trees in the public right-of-way will be protected and preserved.
2. Off-Street Parking and Loading Areas
- a. The existing site serves as a parking area for the Burlington Coat Factory retail area to the south of the site. The existing parking area will be demolished and a new parking area with 27 parking spaces, including two ADA accessible spaces. The parking area is landscaped on all sides and features several landscaping islands.
  - b. Popeyes conducts a large proportion of sales through the drive-thru. Eighteen drive-thru queue spaces and two order stations are proposed.
3. Signs
- a. The proposed signage is consistent with the new branding of Popeye's Louisiana Kitchen. Proposed signs are consistent with signage of the surrounding businesses. A monument sign will be installed along the Odana Road right-of-way. Most signs are internally illuminated. A sign packet is included with the submittal.
  - b. Two monument signs for the retail stores to the south of the site will be preserved on the site. A monument sign for Burlington Coat Factory is located on the northwest side of the site and a monument sign for JOANN Fabrics and Hand & Stone Massage and Facial Spa is located at the northeast corner of the site.
4. Building Design
- a. The proposed Popeyes restaurant is an all-new building type released in the summer of 2021. The 2,984 square-foot building features seating for 36 patrons and mobile order pick-up stations. The building exterior features attractive brick, wood-grain fiber cement panels, and EIFS facades, decorative exterior artwork and accents, and Popeyes' signage and branding elements.
5. Lighting
- a. Exterior lighting is designed and provided by Cree to meet the City's medium activity lighting requirements.
6. Landscaping
- a. Several trees and landscaped areas must be removed to facilitate construction of this development. One mature tree will be preserved. All trees in the Odana Road right-of-way will be preserved.
  - b. There are several landscaping beds along the building perimeter with a variety of flowering perennials and evergreen shrubs to maintain an attractive appearance year-round.
  - c. The site perimeter is landscaped to screen the trash enclosure and transformer area from public view.
  - d. The site features four retaining walls to manage grade changes across the site.
7. Stormwater Management
- a. The existing site has three inlets to capture runoff from the retail development to the south of the site. These will be removed, and three inlets will be installed in the south access road to capture runoff from this area.

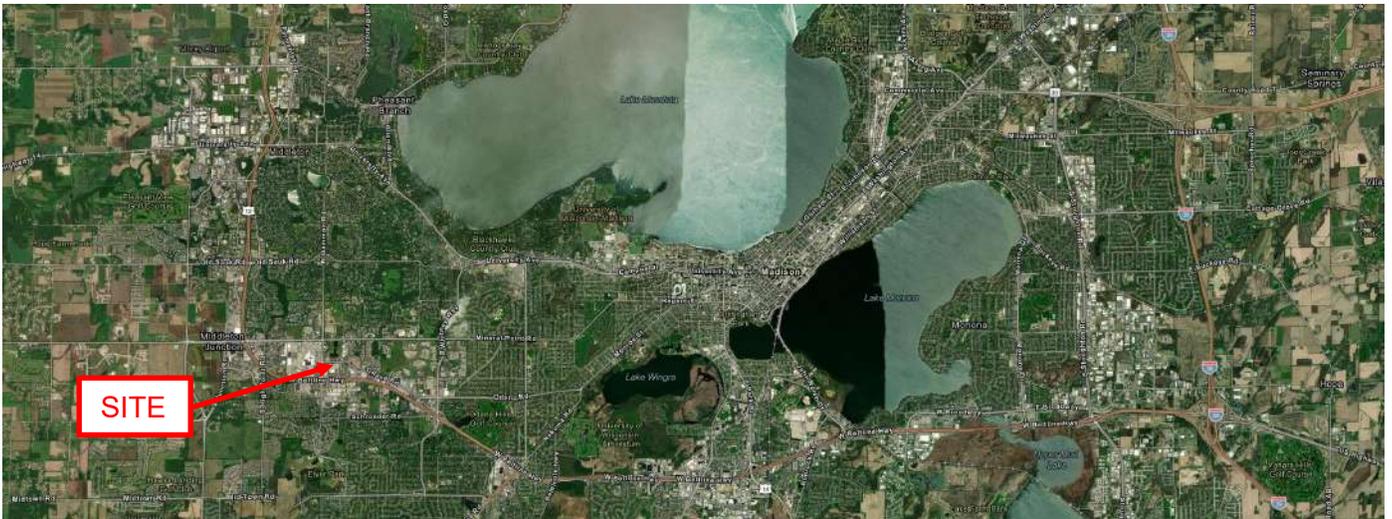
- b. A detention basin will be constructed on the north side of the site to achieve the release rate and water quality measures required.

City and Neighborhood Input:

Alder Keith Furman has agreed to waive the 30-day notification prior to submitting for a conditional use.

A DAT meeting was conducted in July 2021. The Traffic Engineering department suggested pedestrian connectivity from the building to the Metro Transit bus stop, which is provided. Additionally, west sidewalk will be routed to connect to the pedestrian route leading to the retail stores to the south of the development. The west access driveway is an exit-only route to prevent traffic congestion backing up to Odana Road.

Site Locator Map



Letter of Intent  
4002 E. Washington Ave  
October 19, 2021



Existing Site and Surrounding Buildings and Signs:



Photo 1: Site from Odana Road sidewalk (dated July 1, 2021)



Photo 2: Site from Odana Road sidewalk (dated July 1, 2021)



Photo 3: Site from Odana Road sidewalk at bus stop (dated July 1, 2021)



Photo 4: Site from southeast corner via Google (dated August 2018)



Photo 5: Site from southwest corner via Google (dated August 2018)



Photo 6: Burger King to west of site - 6909 Odana Road (dated July 1, 2021)



Photo 7: Multi-tenant retail building to east of development via Google (dated August 2018)



Photo 8: Multi-tenant retail building to south of development via Google (dated August 2018)



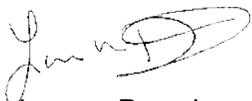
Photo 9: Multi-tenant retail building to north of development via Google (dated August 2018)

Site Development Data:

Gross Lot Area:	42,375 square feet (0.973 acres)
Proposed Building Area:	2,984 square feet
Paved Area:	23,973 square feet
Landscaped Area:	15,388 square feet
Proposed Drive-Through Stacking:	18 spaces
Proposed Parking:	27 stalls / 2 ADA
Proposed Bicycle Parking:	4 spaces

Thank you for your consideration in review of our proposal.

Sincerely,

  
Lauren Downing

EXTERIOR DESIGN

# POPEYES LOUISIANA KITCHEN



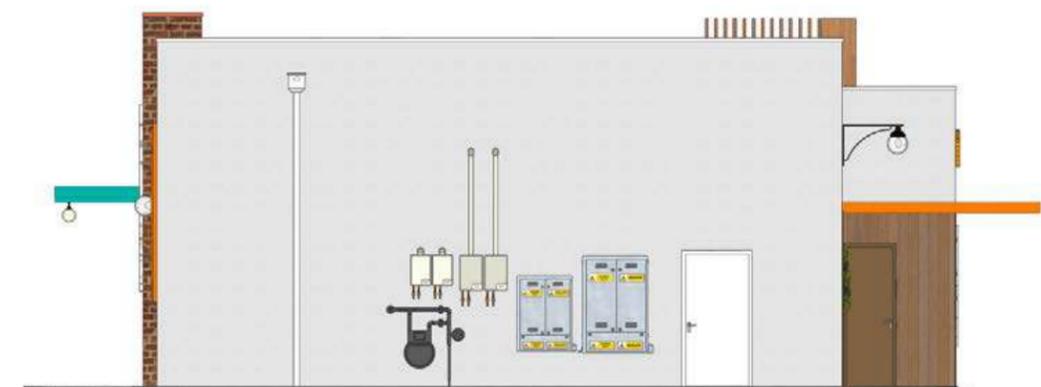
Front Elevation



Side Elevation



Drive-Thru Elevation

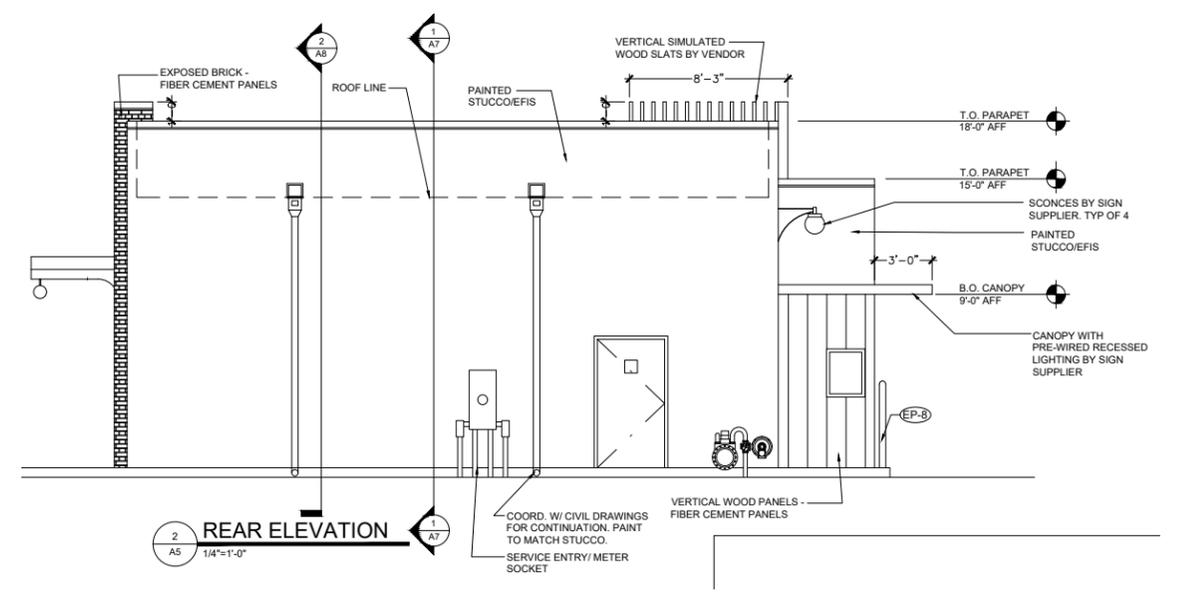
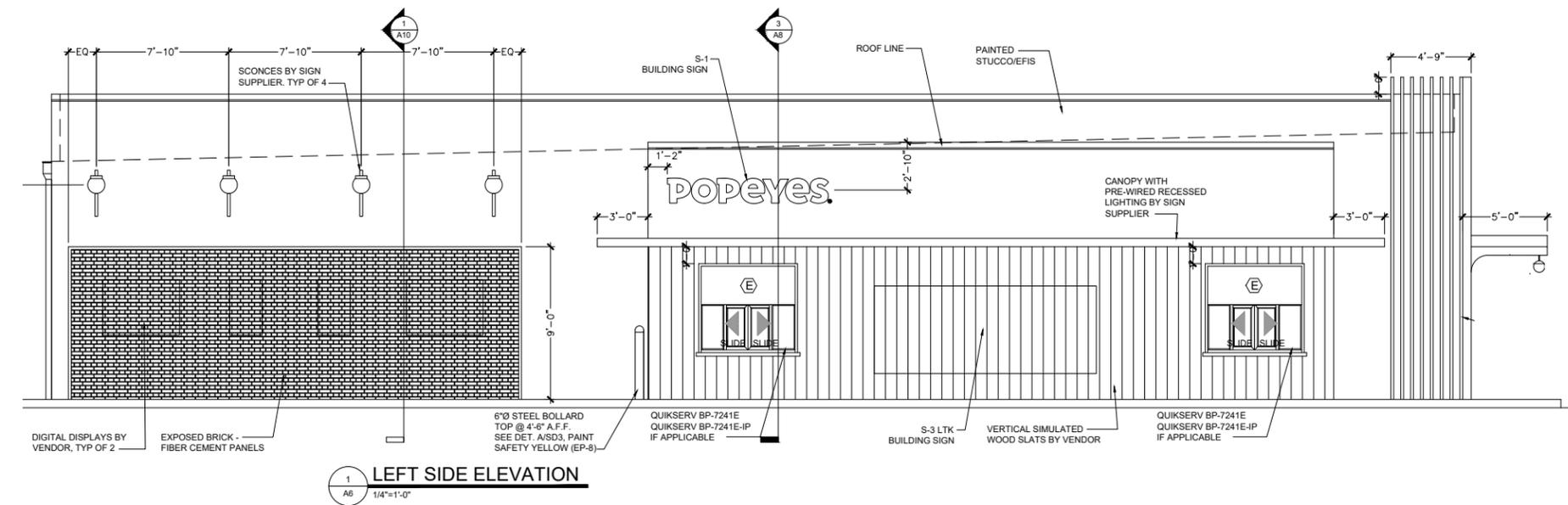
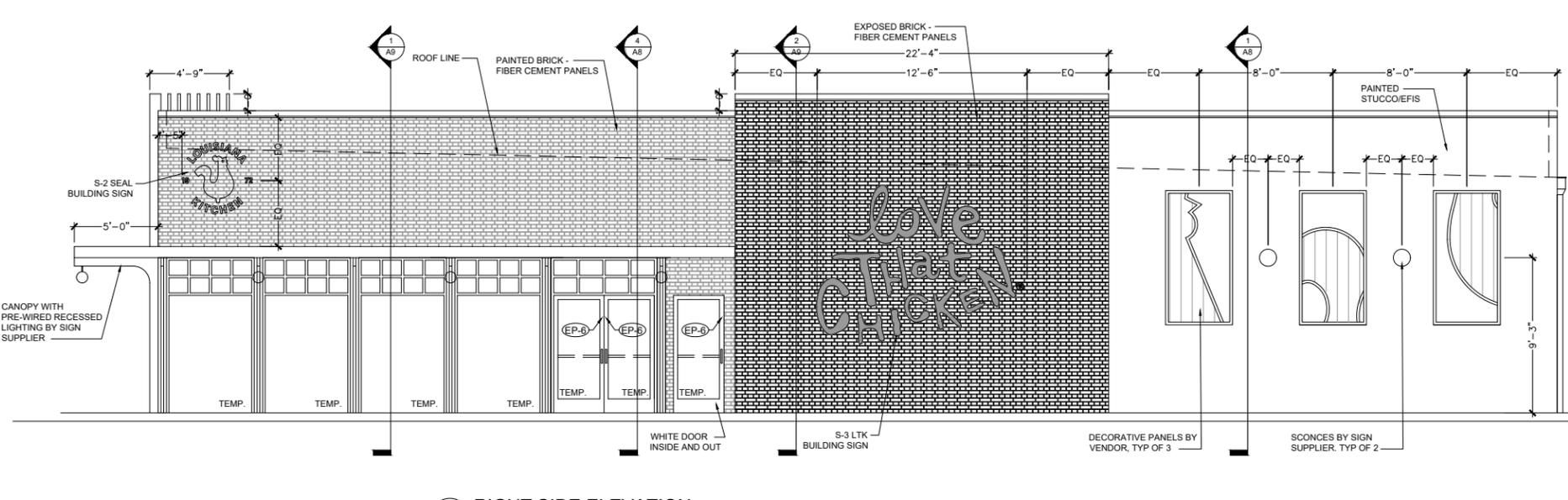
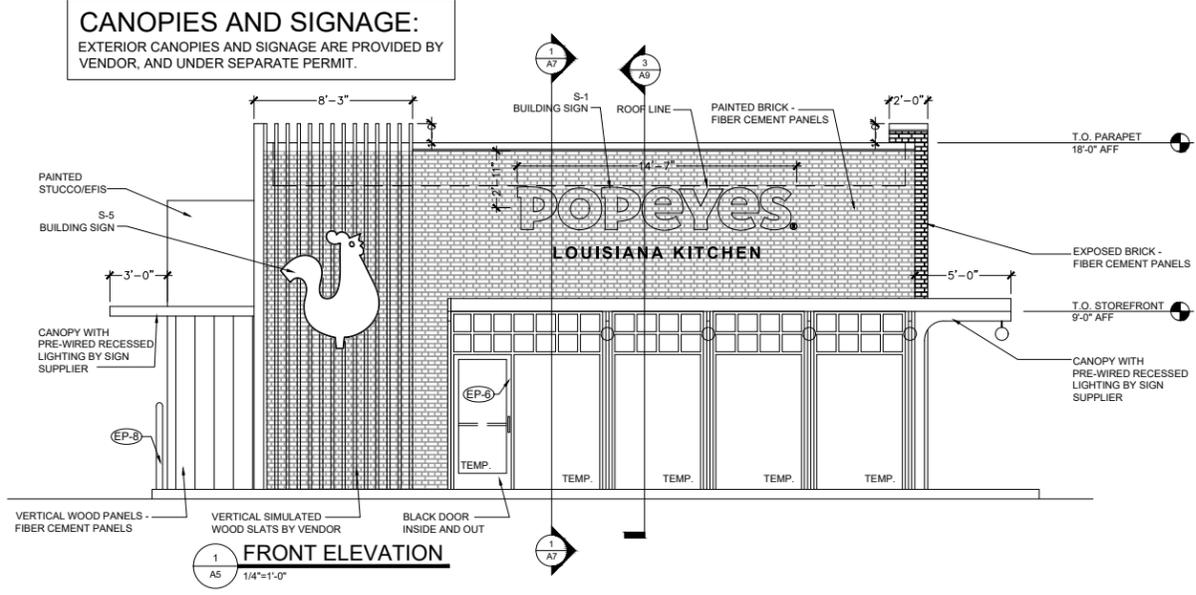


Back Elevation

EXTERIOR DESIGN

POPEYES LOUISIANA KITCHEN

**CANOPIES AND SIGNAGE:**  
EXTERIOR CANOPIES AND SIGNAGE ARE PROVIDED BY VENDOR, AND UNDER SEPARATE PERMIT.



EXTERIOR DESIGN

# POPEYES LOUISIANA KITCHEN



EXTERIOR DESIGN

# POPEYES LOUISIANA KITCHEN



EXTERIOR DESIGN

# POPEYES LOUISIANA KITCHEN



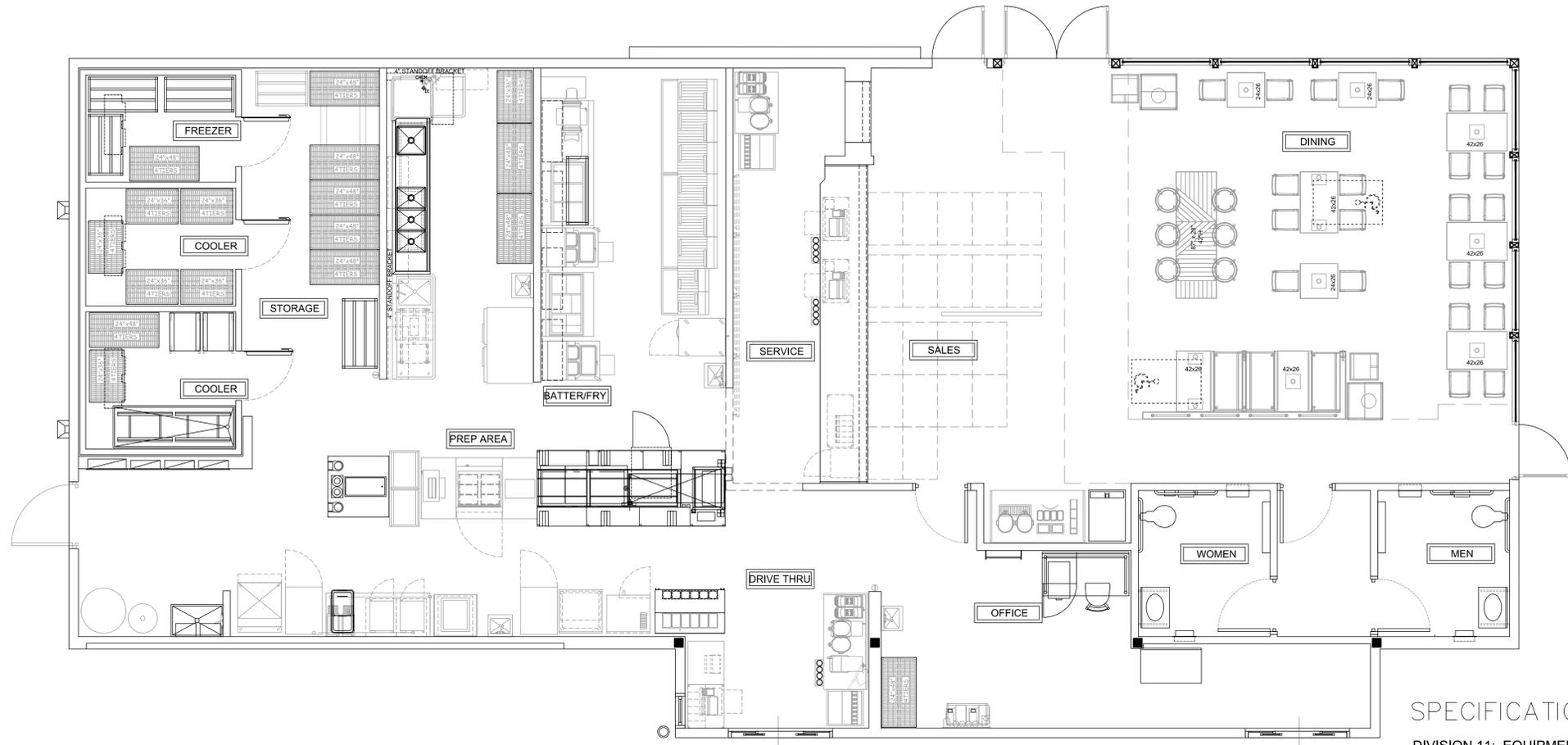
EXTERIOR DESIGN

# POPEYES LOUISIANA KITCHEN





**NOT FOR CONSTRUCTION**



**1 EQUIPMENT PLAN**  
EQ1 1/4"=1'-0"

**SPECIFICATIONS**

**DIVISION 11: EQUIPMENT**

**GENERAL PROVISIONS**

- SCOPE: COORDINATE WITH THE INSTALLATION OF ALL EQUIPMENT ITEMS SHOWN ON PLANS AND SCHEDULED IN EQUIPMENT SCHEDULE (EXCEPT AS NOTED AS INSTALLED BY KITCHEN CONTRACTOR) WHICH ARE FURNISHED BY THE OWNER OR UNDER SEPARATE CONTRACT. EQUIPMENT SCHEDULE LISTS TRADES RESPONSIBLE FOR FURNISHING, INSTALLING AND FINAL CONNECTION.
- SUBMISSIONS: PROVIDE THE OWNER, AT THE COMPLETION OF THIS CONTRACT, WITH AN "OWNER'S MANUAL" SO LABELED. THE MANUAL SHALL CONSIST OF A THREE-RING LOOSE-LEAF BINDER CONTAINING ALL PRINTED MATTER SUCH AS: GUARANTEE CARDS, CLEANING INSTRUCTIONS, NOTICES TO OWNER, OPERATING MANUALS, SERVICE AGENTS AND MAINTENANCE INSTRUCTIONS THAT MAY BE CONTAINED IN THE SHIPPING CARTON OF EQUIPMENT AND SPECIALTIES.
- DELIVERY AND STORAGE: RECEIVE, UNLOAD, AND SAFEGUARD THE EQUIPMENT. COORDINATE SHIPPING TIME WITH OWNER.
- PROTECTION AND CLEANING: SURFACES SHALL BE CLEANED BEFORE FINAL INSPECTION.

**MATERIALS**

- SEE EQUIPMENT SCHEDULE

**PERFORMANCE**

- INSTALL EQUIPMENT ACCORDING TO NFPA 96 AND MANUFACTURER'S INSTRUCTIONS, PROVIDE FACTORY AUTHORIZED START & ADJUSTMENT.

**DIVISION 12: FURNISHINGS**

**GENERAL PROVISIONS**

- SCOPE: COORDINATE INSTALLATION OF ARTWORK, SEATING, FREE-STANDING CABINETS AND SHELVING, WINDOW TREATMENT, FLOOR MATS, AND ACCESSORIES WHICH ARE FURNISHED UNDER SEPARATE CONTRACT TO THE OWNER. IF REQUESTED THROUGH THE CONTRACT, INSTALL DECOR, SEATING, FREE-STANDING CABINETS AND SHELVING, WINDOW TREATMENT, FLOOR MATS AND/OR ACCESSORIES.
- NOTES: DETAILS AND MATERIALS SHOWN ON THE APPROVED DECOR DRAWINGS CONFLICTING WITH THE STANDARD PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY PRIOR TO COMMENCEMENT OF THE INSTALLATION. VERIFICATION OF ADA COMPLIANCE WILL BE NECESSARY.
- DELIVERY AND STORAGE: RECEIVE AND SAFEGUARD OWNER SUPPLIED ITEMS ON THE JOB SITE IF REQUESTED.

**PERFORMANCE**

- INSTALLATION: PREPARE SURFACES TO RECEIVE THESE MATERIALS AND COOPERATE WITH THE INSTALLATION OF DECOR MATERIALS AS SHOWN ON THE DECOR DRAWINGS.

**NOTES**

**SYMBOL**

TEXT EQUIPMENT No.

- IT IS THE RESPONSIBILITY OF THE G.C. TO COORDINATE DELIVERY, UNCRATING, POSITIONING, FINAL HOOK-UP AND REMOVAL OF TRASH OF ALL OWNER SUPPLIED KITCHEN EQUIPMENT.
- ALL KITCHEN EQUIPMENT TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
- DECOR ITEMS SUPPLIED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR.
- FOR DINING ROOM FURNITURE, SEE DECOR PACKAGE, CONTACT DECOR VENDOR FOR DETAILS.

**INTERIOR SIGN PACKAGE-BY G.C.**

AREA	SIGN NAME	QTY	MOUNTING LOCATION	COMMENTS	
FRONT OF HOUSE	HOURS OF OPERATION	2	CUSTOMER ENTRANCE DOORS, 48" AFF	MOUNT ON WINDOW NEXT TO DOOR, IF POSSIBLE	
	DOOR TRAFFIC FLOW SIGNS				
	IN	2	CUSTOMER ENTRANCE DOORS, 48" AFF	MOUNT DIRECTLY ABOVE PUSH BAR OF ENTRANCE DOORS	
	OUT	2	CUSTOMER ENTRANCE DOORS, 48" AFF	MOUNT DIRECTLY ABOVE PUSH BAR OF ENTRANCE DOORS	
	LOBBY FLOW SIGN	2	SITS ON TOP OF SERVICE COUNTER	3 SIDED SIGN, "ORDER HERE", "PAY HERE", "NEXT REGISTER"	
	QUEUEING LINE FLOW SIGN	1	TOP OF QUEUEING LINE POLE	2 SIDED SIGN, "ENTER HERE", "PLEASE COME AGAIN"	
	RESTROOM SIGNS			HANDICAPPED	
	"HANDICAP WOMEN"	1	EXTERIOR OF WOMEN'S RESTROOM DOOR, 60" AFF	MOUNT TO CENTER LINE OF SIGN	
	"HANDICAP MEN"	1	EXTERIOR OF MEN'S RESTROOM DOOR, 60" AFF	MOUNT TO CENTER LINE OF SIGN	
	"RESTROOMS"	1	VISIBLE TO CUSTOMERS IN DINING AREA, 60" AFF	MOUNT TO CENTER LINE OF SIGN	
	"EMPLOYEES MUST WASH HANDS..."	2	INTERIOR OF BOTH RESTROOMS DOOR, 60" AFF		
	"NO SMOKING"	5	DINING ROOM		
	"EMPLOYEES ONLY"	1	ENTRANCE BETWEEN KITCHEN AND DINING ROOM		
	TEA URN SIGNS				
	"UNSWEETENED TEA"	1	HANGS ON DISPENSER	2 SIDED SIGN	
	"SWEETENED TEA"	1	HANGS ON DISPENSER	2 SIDED SIGN	
	"WATER"	1	HANGS ON DISPENSER	2 SIDED SIGN	
	BACK OF HOUSE	BIN DECALS			
		"FLOUR"	1	PLACE ON FLOUR BIN	STICKER APPLICATION
		"RICE"	1	PLACE ON RICE BIN	STICKER APPLICATION
"FILTER"		1	PLACE ON FILTER POWDER BIN	STICKER APPLICATION	
3 COMPARTMENT SINK DECALS					
"WASH"		1	PLACE ON BACK SPLASH OVER APPROPRIATE SINK	STICKER APPLICATION	
"RINSE"		1	PLACE ON BACK SPLASH OVER APPROPRIATE SINK	STICKER APPLICATION	
"FILTER"		1	PLACE ON BACK SPLASH OVER APPROPRIATE SINK	STICKER APPLICATION	
"HOT USE CAUTION"		6	MICROWAVE WINDOW, OVEN, PRODUCT DISPLAY AREAS	STICKER APPLICATION	
"MUST BE 18..."		4	FRYER, FILTER, MARINATOR, (IF APPLICABLE)		
FRYER LABELS (1, 2, 3, 4, 5, 6)	1	PLACE ON APPROPRIATE FRYER	STICKER APPLICATION		
"STOP! ALL VENDORS MUST..."	1	EXTERIOR OF BACK DOOR, 60" AFF			
"WARNING! ONLY MANAGERS..."	1	EXTERIOR OF BACK DOOR, 48" AFF			
"MANAGERS... ACCESS TO SAFE"	1	EXTERIOR OF BACK DOOR, 48" AFF			
"CHEMICAL STORAGE ONLY"	1	ON OR OVER AREA TO STORE CHEMICALS	MOUNT TO SHELVING UNIT OR WALL		
OTHER	HANDICAP PARKING SIGN	2	DESIGNATED PARKING SPOT (S) 84" TO BOT. OF SIGN		

- NOTES:**
- FLOOR MATS SHOULD BE PLACED IN THE AREAS DESCRIBED BELOW:  
ENTRY WAY MATS: 3M NOMAD, AVAILABLE SIZES 3'x5' OR 4'x6'  
KITCHEN FLOOR MATS: MATRIX 'GRIP ROCK'  
LOCATIONS:  
-INSIDE WALK-IN COOLER (3'-0" x 5'-6")  
-OUTSIDE THE WALK-IN COOLER (3'-0" x 4'-0")  
-ICE MACHINE (3'-0" x 4'-0")  
-3 COMPARTMENT SINK (3'-0" x 7'-6")  
-CONDIMENT COUNTER (3'-0" x 8'-10")
  - EQUIPMENT SUBSTITUTIONS REQUIRE POPEYES PRE-APPROVAL  
SUBMIT CUT SHEETS TO POPEYES DEPARTMENT

**SEATING**

SEATS:	71
GROUPS:	21
RATIO:	3.4

**SQUARE FOOTAGE**

KITCHEN (NET):	1,278
WALK-IN (NET):	185
DINING/RESTROOM (NET):	1,545
TOTAL ( NET ) :	3,008
TOTAL ( GROSS ) :	3,149



# POPEYES MADISON, WI

6831 ODANA RD  
MADISON, WI

**ARC DESIGN**  
RESOURCES INC.

5291 ZENITH PARKWAY  
LOVES PARK, IL 61111  
VOICE: (815) 484-4300  
FAX: (815) 484-4303

www.arcdesign.com  
Design Firm License No. 2411-11

## GENERAL NOTES

- The designs represented in these plans are in accordance with established practices of civil engineering for the design functions and uses intended by the owner at this time. Neither the engineer nor its personnel can or do warrant these designs or plans as constructed except in the specific cases where the engineer inspects and controls the physical construction on a contemporary basis at the site.
- The contractor, by agreeing to perform the work, agrees to indemnify and hold harmless the owner, the engineer, the City, and all agents and assigns of those parties, from all suits and claims arising out of the performance of said work, and further agrees to defend or otherwise pay all legal fees arising out of the defense of said parties.
- In accordance with generally accepted construction practices, the contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours. Any construction observation by the engineer of the contractor's performance is not intended to include review of the adequacy of the contractor's safety measures, in, or near the construction site. The contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures, and all other measures that are necessary to protect the safety of the site at all times.
- Maintain access for vehicular and pedestrian traffic as required for other construction activities. Use traffic control devices to include temporary striping, flagmen, barricades, warning signs, and warning lights shall be in accordance with current MUTCD and WisDOT standards.
- All phases of the site work for this project shall meet or exceed industry standards and requirements set forth by the owner's "Description of Work", the City of Madison, the State of Wisconsin, and this plan set.
- The City of Madison must be notified at least two (2) working days prior to the commencement or resumption of any work.
- The contractor shall coordinate all permit and inspection requirements with responsible local, state, and federal agencies. The contractor shall include the costs of this coordination and all inspection fees in the bid price.
- All work performed by the contractor shall come with a warranty against defects in workmanship and materials. This warranty period shall run concurrent with the required warranty periods the owner must provide to each local government agency, as a condition of the permit.
- The contractor will be held solely responsible for and shall take precautions necessary to avoid property damage to adjacent properties during the construction of this project.
- All structures, inlets, pipes, swales, roads and public egresses must be kept clean and free of dirt and debris at all times.
- Any field tiles encountered during construction shall be recorded showing size, location, and depth by the contractor, and either reconnected and rerouted or connected to the storm sewer system. The owner shall be notified immediately upon encountering any tile.
- The contractor shall field verify the elevations of the benchmarks prior to commencing work. The contractor shall also field verify the location and elevation of existing pipe inverts, curb or pavement where matching into existing work. The contractor shall field verify horizontal control by referencing property corners to known property lines. Notify the engineer of discrepancies in either vertical or horizontal control prior to proceeding.
- All elevations are on NAVD 88 datum.
- Parking areas designated as A.D.A. and all sidewalk shall be compliant with state and local A.D.A. requirements.
- Tactile warning plates per WisDOT specifications shall be placed at all locations where sidewalk that is to be replaced intersects public roads and at locations indicated in this plan set.
- The contractor shall verify the location of all utilities in the field prior to construction. This includes sanitary sewer, water main, storm sewer, gas, telephone, electric, cable, and other utilities, if any. The Diggers Hotline number is 1-800-242-8511. Property corners shall be carefully protected until they have been referenced by a Professional Land Surveyor.
- The contractor shall keep careful measurements and records of all construction and shall furnish the Engineer, the Owner and the Village with record drawings in a digital format compatible with AutoCAD Release 14 upon completion of his work.
- Any excess dirt or materials shall be placed by the contractor onsite at the owner's direction or as indicated on the plans.
- Notify the owner and the City of Madison of any existing wells. Obtain permit from the Wisconsin DNR. Cap and abandon wells in accordance with local, state, and federal regulations.
- Finish grade shall in all areas not specifically reserved for storm water management shall drain freely. No ponding shall occur. Tolerances to be observed will be measured to the nearest 0.04 of a foot for paved surfaces and 0.10 of a foot for unpaved areas.

## VICINITY MAP



CALL DIGGERS HOTLINE BEFORE  
YOU DIG  
CALL 811 OR 1-800-242-8511

## OWNER:

### ABYGROUPS

ABY MOHAMED  
200 S FRONTAGE RD STE 330  
BURR RIDGE, IL 60527  
(847) 208-5656

## ENGINEER:



5291 ZENITH PARKWAY  
LOVES PARK, IL 61111  
VOICE: (815) 484-4300  
FAX: (815) 484-4303

www.arcdesign.com  
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## INDEX OF SHEETS

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C00	COVER
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C02	SWPPP PLAN
C03	REMOVALS PLAN
C04	LAYOUT PLAN
C05	GRADING PLAN WEST
C06	GRADING PLAN EAST
C07	DRAINAGE PLAN
C08	UTILITY PLAN
C09	POPEYES' DETAILS
C10	POPEYES' DETAILS
C11	DETAILS
C12	DETAILS
C12	CITY OF MADISON DETAILS
C13	CITY OF MADISON DETAILS
C14	WISDOT DETAILS
L01	LANDSCAPING PLAN

## APPROVAL

CITY OF MADISON, WI  
STATE OF WISCONSIN DSPS (PLUMBING)  
STATE OF WISCONSIN DNR (NOTICE OF INTENT)

## DATE

PENDING  
PENDING  
PENDING

## UTILITY OFFICIALS

### PUBLIC WORKS DEPARTMENT:

CITY OF MADISON  
PUBLIC WORKS DEPARTMENT  
210 MARTIN LUTHER KING JR. BLVD.  
MADISON, WI 53703  
(608) 267-8815

### PUBLIC WORKS INSPECTION:

CITY OF MADISON  
PUBLIC WORKS DEPARTMENT  
210 MARTIN LUTHER KING JR. BLVD.  
MADISON, WI 53703  
(608) 267-8815

### SEWER DISTRICT:

MADISON METROPOLITAN SEWERAGE DISTRICT  
1610 MOORELAND RD.  
MADISON, WI 53713  
(608) 222-1201

### WATER DEPARTMENT:

MADISON WATER UTILITY  
119 E. OLIN AVE.  
MADISON, WI 53713  
(608) 226-4651

### TELEPHONE:

AT&T  
(855) 496-1228

### CABLE TELEVISION:

SPECTRUM  
2936 S. FISH HATCHERY RD.  
FITCHBURG, WI 53711  
(866) 874-2389

### ELECTRIC:

MADISON GAS & ELECTRIC  
133 S. BLAIR ST.  
MADISON, WI 53703  
(608) 252-7222

### GAS:

MADISON GAS & ELECTRIC  
133 S. BLAIR ST.  
MADISON, WI 53703  
(608) 252-7222

PROJECT NAME  
OWNER'S NAME

## POPEYES MADISON, WI

6831 ODANA RD  
MADISON, WI  
DANE COUNTY

ABYGROUPS  
200 S FRONTAGE RC STE 330  
BURR RIDGE, IL 60527  
(847) 208-5656

CONSULTANTS

ISSUED FOR

AGENCY REVIEW	DATE
1. ---	10/27/2021
2. ---	---
3. ---	---
4. ---	---
5. ---	---
6. ---	---
7. ---	---
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11. ---	---
12. ---	---

REVISIONS

ITEM	DATE
1. ---	---
2. ---	---
3. ---	---
4. ---	---
5. ---	---
6. ---	---

SHEET TITLE

## COVER

DRAWN KG  
CHECKED LND  
PM RCS

PROJECT NUMBER  
SHEET NUMBER

19055

C00

## WDRN EROSION CONTROL NOTES

WDRN Notes. Should conflicts be found between notes in the plans and these WDRN Notes, WDRN Notes shall govern.

- Post WDRN certificate of permit coverage on site and maintain until construction activities have ceased, the site is stabilized, and a Notice of Termination is filed with WDRN.
- Keep a copy of the current erosion control plan on site throughout the duration of the project.
- Submit plan revisions or amendments to the WDRN at least 5 days prior to field implementation.
- Contractor is responsible for routine site inspections at least once every 7 days and within 24 hours after a rainfall event of 0.5 inches or greater. Keep inspection reports on-site and make them available upon request.
- Inspect and maintain all installed erosion control practices until the contributing drainage area has been stabilized.
- When possible, preserve existing vegetation (especially adjacent to surface waters), minimize land-disturbing construction activity on slopes of 20% or more, minimize soil compaction, and preserve topsoil.
- Refer to the WDRN stormwater construction technical standards at [http://dnr.wi.gov/topic/stormwater/standards/const\\_standards.html](http://dnr.wi.gov/topic/stormwater/standards/const_standards.html).
- Install perimeter erosion controls and rock tracking pad construction entrance(s) (Temporary Stone Construction Entrance) prior to any land-disturbing activities, including clearing and grubbing. Use WDRN Technical Standard Stone Tracking Pad and Tire Washing #1057 for rock construction entrances.
- Install inlet protection prior to any disturbing activity in the contributing drainage area and/or immediately upon inlet installation. Comply with WDRN Technical Standard Storm Drain Inlet Protection for construction sites #1060.
- Stage construction grading activities to minimize the cumulative exposed area. Conduct temporary grading for erosion control per WDRN Technical Standard Temporary Grading Practices for Erosion Control #1067.
- Notify the City of Madison, WI and WDRN if dewatering is scheduled to occur in areas of soil and/or groundwater contamination, or if dewatering will occur from a high capacity well (70 gpm or more). Dewater only after the appropriate WDRN dewatering discharge permit has been obtained.
- Provide anti-slope protection and maintain non-erosive flow during dewatering. Limit pumping rates to either (a) the sediment basin/trap discharge rate, or (b) the basin design release rate with the corrected flow and geotextile filter bag. Perform dewatering of accumulated surface runoff in accordance with WDRN Technical Standard De-Watering #1061.
- Install and maintain silt fencing per WDRN Technical Standard Silt Fence #1056. Remove sediment from behind silt fences and sediment barriers before sediment reaches a depth that is equal to one-half of the fence and/or barrier height.
- Repair breaks and gaps in silt fences and barriers immediately. Replace decomposing straw bales (typical bale life is 3 months). Locate, install, and maintain straw bales per WDRN Technical Standard Ditch Checks #1062.
- Install and maintain filter socks in accordance with WDRN Technical Standard Interim Manufactured Perimeter Control and Slope Interruption Products #1071.
- Immediately stabilize stockpiles and surround stockpiles as needed with silt fence or other perimeter control if stockpiles will remain inactive for 7 days or longer.
- Immediately stabilize all disturbed areas that will remain active for 14 days or longer. Between September 15 and October 15, stabilize with mulch, tackifier, and a perennial seed mixed with winter wheat, annual oats, or annual rye, as appropriate for region and soil type October 15 through cold weather; stabilize with a polymer and dormant seed mix, as appropriate for region and soil type.
- Stabilize areas of final grading within 7 days of reaching final grade.
- Sweep/clean up all sediment/trash that moves off-site due to construction activity or storm events before the end of the same workday or as directed by the City of Madison, WI. Separate swept materials (soils and trash) and dispose of appropriately.
- Contractor is responsible for controlling dust per WDRN Technical Standard Dust Control on Construction Sites #1068.
- Properly dispose of all waste and unused building materials (including garbage, debris, cleaning wastes, or other construction materials) and do not allow these materials to be carried by runoff into the receiving channel.
- Coordinate with the design engineer and WDRN to update the land disturbance permit to indicate the anticipated or likely disposal locations for any excavated soils or construction debris that will be hauled off-site for disposal. The deposited or stockpiled material needs to include perimeter sediment control measures (such as silt fence, hay bales, filter socks, or compacted earthen berms).
- For non-channelized or flow disturbed or constructed flows, provide class 1, type A for slopes erosion control matting. Select erosion matting from appropriate matrix in WISDOT's WISDOT Product Acceptability List (PAL); install and maintain per WDRN Technical Standard Non-Channel Erosion Mat #1052.
- For channelized flow on disturbed or constructed areas, provide class 1, type B erosion control matting. Unless otherwise specified on the plans, select erosion matting from appropriate matrix in WISDOT's WISDOT Product Acceptability List (PAL); install and maintain per WDRN Technical Standard Channel Erosion Mat #1053.
- Make provisions for watering during the first 8 weeks following seeding or planting of disturbed areas whenever more than 7 consecutive days of dry weather occur.
- Install additional erosion and sediment control measures (such as temporary sediment basins, ditch checks, erosion control matting, silt fencing, filter socks, watties, swales, etc.), or as directed by the City of Madison, WI or WDRN.
- The contractor is responsible for complying with all applicable WDRN remediation and waste management requirements for handling and disposing of contaminated materials. Site-specific information for areas with known or suspected soil and/or groundwater contamination can be found on WDRN's Bureau of Remediation and Redevelopment Tracking System (BRRTS) public database at: <http://dnr.wi.gov/botw/>
- Refer to the SWPPP binder if there is a discharge of sediment and/or other contaminants. A spill plan is required if there is potential to discharge contaminants to waters of the state.

## SANITARY SEWER NOTES

- Sanitary Sewer shall be constructed in accordance with the following:
    - Department of Safety and Professional Services (SPS), Chapter 382 Design, Construction, Installation, Supervision, Maintenance and Inspection of Plumbing (State of Wisconsin), dated December 2015, and all revisions and supplements thereto.
    - All applicable state and local plumbing codes including (but not limited to) the City of Madison, WI for water and sewer (see C02 General Notes).
    - Additional details and requirements provided in the contract documents, including this plan set.Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
  - Contact all public and private utility companies 48 hours prior to any excavation. Cost of replacement or repair of existing utilities damaged as a result of the contractor's operation shall be the contractor's responsibility.
  - 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 control prior to proceeding with work.
  - Install cleanouts and manholes in accordance with the standard details in this plan set and with the aforementioned standard specifications. The contractor shall adjust all cleanouts and manhole castings to final grade as defined in this plan set.
  - Cap ends of any conduits installed and mark ends.
  - All sanitary sewers under and within two feet of any existing or proposed pavement shall be backfilled with granular backfill material meeting Wisconsin standard specifications (Section 209/AASHTO T27).
  - Sanitary sewer services shall be 6" or 4", as designated on plans, PVC SDR 35 in accordance with ASTM D-3034. All services shall be sloped from the main at 1% minimum unless otherwise noted.
  - Infiltration testing.
    - It is the intent of this title to secure a sewer system with a minimum amount of infiltration. The maximum allowable infiltration shall not exceed two hundred gallons per inch of diameter of sewer per mile per twenty-four hour day at any time for any section of the system. The joints shall be tight and any joint with visible leakage or leakage in excess of that specified above shall be repaired at the developer's expense.
    - The repair must be of a permanent nature and of a quality equal to initial work which is constructed in conformance with the applicable specifications.
    - Immediately after backfilling, the entire length of the sewer trench, including stubs, shall be inundated to normal ground water level or eighteen inches above the top of sewer pipe, whichever is higher. At that time, infiltration tests shall be made to determine compliance with the allowable infiltration criteria. To measure the amount of infiltration, the contractor shall furnish, install, and maintain a v-notch shape crested weir in a metal frame tightly secured at the lower end of each sewer test section as directed by the City of Madison, WI engineer or his/her authorized representative. The City of Madison, WI engineer or his/her authorized representative will check the infiltration by measuring the flow over curbs or weirs, when infiltration is demonstrated to be within the allowable limits, the contractors shall remove such weirs.
  - Exfiltration testing. If during the construction of the sewer system the engineer shall determine that it is impractical to obtain a proper infiltration test, then a test for watertightness shall be made by bulkheading the sewer at the lower end of the section and filling the sewer with water and filling the sewer with water to eight inches above the top of the sewer in the manhole at the upper end of the section. Leakage will then be measured amount of water added to maintain the above described level at a maximum allowable exfiltration rate of two hundred gallons per inch of diameter of sewer per mile per twenty-four hour day at any time for any section of the system.
  - Air testing. In lieu of infiltration or exfiltration testing, the City of Madison, WI engineer may permit air testing in accordance with ASTM C-828.
  - Deflection testing for flexible conduit
    - All sanitary sewer lines shall be deflection-tested after 30 days following final backfill operations.
    - If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the base diameter of the pipe as established in proposed ASTM D-3034. The test shall be performed without mechanical devices.
    - Wherever possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines.
    - Maximum allowable pipe deflection is 5%, where deflection is found to be in excess of 5% of the original pipe diameter, the contractor shall excavate to the point of excess deflection and carefully compact around the point excess deflection was found. The line shall then be retested for deflection. However, should after the initial testing the deflection diameter of the pipe return to the original size of the pipe, the pipe shall be replaced.
- As per State of Wisconsin SPS 382.30(2)(c), Materials for sanitary building sewer pipe shall conform to one of the standards listed in Table 384.30-3.

## CITY OF MADISON NOTES

- THE DEVELOPER SHALL REPLACE ALL CURB & GUTTER AND SIDEWALK THAT IS DAMAGED OR DETERMINED TO BE IN UNSATISFACTORY CONDITION.
- ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADES OF 0.5% TOWARD STORM SEWER LINES.
- ALL DISTURBED TERRACE AREAS SHALL BE RESTORED WITH 6-INCHES OF TOP SOIL AND SEED UNLESS DIRECTED OTHERWISE ON THE PLAN OR BY THE CITY CONSTRUCTION ENGINEER.
- TYPICAL PAVEMENT CROSS SLOPES SHALL BE 2% AND TERRACES SHALL SLOPE AT A 4% GRADE TOWARD THE GUTTER.
- THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL BE 1.5%. THE LONGITUDINAL GRADE OF BARRIER FREE SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33%. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO S.D.D. 3.03. AT ALL OTHER LOCATIONS THE LONGITUDINAL GRADE OF SIDEWALKS SHALL NOT EXCEED 5.0 % OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER NOR BE LESS THAN 0.5% AND SHALL DRAIN TOWARD STORM SEWER LINES. CONCRETE TERRACE SHALL BE INSTALLED BETWEEN THE SIDEWALK AND THE BACK OF CURB AT SIDEWALK LOW POINTS WHICH CANNOT OTHERWISE BE DRAINED DIRECTLY TO THE GUTTER. SIDE SLOPES WITHIN TEN FEET OF A PUBLIC SIDEWALK SHALL NOT EXCEED 4.00:1. ALL SIDEWALK AND SIDEWALK RAMP SLOPES AND GRADES SHALL BE FIELD VERIFIED AND SET TO COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS AND THE A.D.A. GUIDELINES. OBTAIN A PRINT OUT OF THE ALIGNMENT FROM THE CITY ENGINEER PRIOR TO STAKING THIS PROJECT.
- CURB STATION AND OFFSETS SHALL BE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
- POWER POLES AND OTHER OBSTRUCTIONS SHALL BE MOVED TO PROVIDE 2 FEET MINIMUM OF CLEAR DISTANCE FROM ANY FACE OF CURB OR EDGE OF SIDEWALK.
- ANY INFORMATION SHOWN ON THIS PLAN WHICH IS NOT PART OF THIS RIGHT-OF-WAY PROJECT, IS PRELIMINARY AND NOT FOR CONSTRUCTION.
- THERE MAY BE EXISTING UTILITIES OR OTHER FEATURES WHICH ARE EITHER SHOWN OR SHOWN INCORRECTLY ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO LOCATE AND IDENTIFY ALL UTILITIES AND TOPOGRAPHY WHICH MAY AFFECT THE CONSTRUCTION OF THESE IMPROVEMENTS.
- ALL PERMANENT SIGNING AND POSTING WILL BE DETERMINED AND PROVIDED BY THE TRAFFIC ENGINEERING DIVISION, FOLLOWING CONSTRUCTION OF THESE IMPROVEMENTS.
- THE DEVELOPER SHALL PROVIDE, INSTALL AND MAINTAIN ALL STREET END BARRICADES, SIGNING AND TRAFFIC CONTROL, AS REQUIRED BY THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW TO THE CITY TRAFFIC ENGINEERING DIVISION AT LEAST 10 WORKING DAYS PRIOR TO WORK BEGINNING. THE TRAFFIC CONTROL PLAN SHALL COMPLY WITH ALL MUTCD REQUIREMENTS. WORK SHALL NOT PROCEED UNTIL THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED. THE TRAFFIC CONTROL PLAN MAY INCLUDE, BUT IS NOT LIMITED TO: LANE CLOSURE RESTRICTIONS, PEAK HOUR WORKING RESTRICTIONS, ACCESS REQUIREMENTS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PHASING WORK AS NECESSARY TO MEET THE REQUIREMENTS OF THE APPROVED TRAFFIC CONTROL PLAN.
- PAVEMENT SAWCUTS AND FINAL PAVEMENT PATCHING LIMITS SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION ENGINEER. SAWCUTS AND LIMITS SHOWN ON THE PLAN ARE BASED ON ANTICIPATED DISTURBANCE AND THE PATCHING CRITERIA BUT SHALL BE CONSIDERED APPROXIMATE. ALL PAVEMENT PATCHING SHALL BE PER THE CITY'S PATCHING CRITERIA.
- NO TREES, EXCEPT THOSE SHOWN ON THE PLANS, SHALL BE REMOVED. IT IS EXPECTED THAT CONSTRUCTION WILL BE STAGED SUCH THAT EXISTING TREES THAT ARE TO REMAIN WILL BE PRESERVED. ANY REQUESTED TREE REMOVALS FOR CONSTRUCTION SHALL BE REVIEWED IN FURTHER DETAIL WITH CITY FORESTRY, AND, IF A TREE REMOVAL PERMIT WILL BE GRANTED, IT WILL REQUIRE AT LEAST A 72 HOUR WAIT PERIOD BEFORE IT CAN BE ISSUED. THE ADDITIONAL TIME IS REQUIRED TO NOTIFY THE ALDER OF THE CHANGE IN THE TREE PLAN. CITY FORESTRY WILL ISSUE A REMOVAL PERMIT FOR ALL TREE REMOVALS IN THE RIGHT OF WAY IDENTIFIED ON PLANS. CONTACT CITY FORESTRY AT 266-4816 TO OBTAIN THE STREET TREE REMOVAL PERMIT.
- THE CONTRACTOR SHALL CONTACT CITY FORESTRY AT LEAST 14 WORKING DAYS PRIOR TO PLANTING AND ALSO PRIOR TO INSTALLATION OF TREE GRATES. TREE GRATES WILL REQUIRE EXCAVATION TO CONFIRM THAT THERE ARE NO CONFLICTS THAT WOULD PREVENT TREE PLANTINGS. NOTICE PRIOR TO OTHER PLANTINGS IS NECESSARY TO SCHEDULE INSPECTION OF THE NURSERY STOCK AND REVIEW PLANTING SPECIFICATIONS WITH THE LANDSCAPER.

## EARTHWORK NOTES

- Boring samples have been taken at the proposed construction site and a boring report has been supplied with the construction documents.
  - Unsuitable materials:
    - Assume that all subsurface materials are encountered and the replacement of these materials is required, this situation shall be handled as follows:
      - The site contractor shall notify the general contractor immediately. The project superintendent, prior to the undercutting being completed, shall approve any additional undercutting. The quantities shall be verified by the engineer as the additional removal is being completed.
      - If approved by the engineer, these materials shall be removed and replaced with compacted granular materials and compacted in accordance to required standards. The cost of this work shall be an extra to the contract, with the cost being adjusted by change order. Verify with bid documents.
      - If the site contractor is furnishing any off site materials, a representative sample of such materials shall be furnished to the general contractor's approved testing agency to determine a proctor.
      - These materials shall be placed as homogeneously as possible to facilitate accurate compaction and moisture testing.
  - Definition for materials:
    - "Organic material" is defined as material having an organic content in excess of 8% or as determined by the project owner's engineer.
    - Topsoil shall be friable and loamy (loam, sandy loam, silt loam, sandy clay loam, or clay loam).
      - Sand content shall generally be less than 70% by weight.
      - Clay content shall generally be less than 35% by weight.
      - Organic soils, such as peat or muck, shall not be used as topsoil.
    - Topsoil shall be relatively free from large roots, weeds, brush, or stones larger than 25 mm (1 inch). At least 90% shall pass the 2.00 mm (no. 10) sieve.
    - Topsoil pH shall be between 5.0 and 8.0. Topsoil organic content shall not be less than 1.5% by weight. Topsoil shall contain no substance that is potentially toxic to plant growth.
    - "Existing on-site material within moisture content limits" is defined as material of such a quality that the specified compaction can be met without any additional work other than "densifying" with a roller. Scarification and drying of this material will not need to be done prior to compaction.
    - "Existing on-site material NOT within moisture content limits" is defined as material with a high moisture content that can not meet specified compaction requirements without scarification and drying, chemical stabilization, etc. of this material prior to compaction.
    - "Unsuitable material" is defined as any materials that:
      - Cannot be utilized as "topsoil" (organic) for landscape areas.
      - Cannot be utilized as "engineered fill" regardless of moisture content and / or does not structurally meet the standards of the project owner's engineer's recommendations for "engineered fill".
      - Can be defined as natural materials or from "demolition" and / or excavated areas (i.e., materials that would not be suitable for "engineered fill").
    - "Off-site material" is defined as any materials that are brought from any area not indicated on this plan set.
      - "Trench backfill" shall be defined as any materials used for the purposes of backfilling any trench and / or any excavation requiring backfilling. Refer to "Standards for fill areas" to determine acceptable materials and procedures.
  - The term "strip" and "strip" as used herein shall refer to the removal of all "organic materials" from a given area. The term "organic materials" is defined as material having an organic content over 8% based on ASTM D2974, or as defined by the owner's engineer.
  - Standards for cut areas:
    - A "cut area" is defined as any area where "engineered fill" is not required to bring the site to design subgrade elevation. Instead, excavation or "cutting" is required to achieve design subgrade elevation ("engineered fill" being defined as any material being "offsite material").
    - In "cut areas" the site contractor shall perform one of the following procedures at the discretion and in the presence of a representative of the owner's engineer and the project architect:
      - For exposed building or parking lot subgrades consisting primarily of granular soils, the exposed subgrade should be compacted / densified by at least one (1) pass of a smooth-drummed vibratory roller having a minimum gross weight of 10 tons.
      - For exposed building or parking lot subgrades consisting primarily of cohesive soils, the exposed subgrades should be proof-rolled with a fully-loaded six-wheel truck having a minimum gross weight of 25 tons. The maximum allowable deflection under the specified equipment shall be 1/2".
    - In the event that adequate stability of granular soils subgrades cannot be achieved by the procedures as outlined in item 1 above, or that deflections greater than 1/2" are observed during the "proof rolling" of cohesive soils subgrades (as outlined in item 2 above) additional corrective measures will be required. These measures could include, but not necessarily be limited to, scarification, moisture conditioning, re-compaction, undercutting and replacement with engineered fill or crushed stone (with or without geotextiles), or chemical stabilization.
  - It shall be considered as part of the scope of these documents (and thus part of this contractor's responsibility) to perform scarification and drying of the subgrade per Wisconsin Department of Transportation (WisDOT) standards (scarify a 16" depth for 3 days). If this does not work then additional drying measures shall be an extra to the contract.
  - Any proposed corrective measures by the contractor should be reviewed by the owner's engineer and the project architect. In the event that in the opinion of the owner's engineer and project architect that proof rolling is not a good indicator of the subgrade stability, an alternative method shall be specified by the owner's engineer and / or the project architect.
- Standards for fill areas:
  - A "fill" area is defined as any area where material is required to adjust the existing elevation to a proposed subgrade elevation (these areas require installation of "engineered fill" to achieve design subgrade elevation). "Engineered fill" material can be defined as either "granular soil" or "soil" that is either from the construction site or is "offsite material". Materials having their origin from the construction site is referred to as "borrow". The composition and the compaction standards of the engineered fill for this project will be specified by owner's engineer and the project architect.
  - In "fill" areas, "borrow" materials are allowed to be utilized as engineered fill such that the site contractor compacts the "borrow" areas to the specified compaction standards (for engineered fill and back filled areas)
    - Prior to placement of fill in areas below the design grade, the exposed subgrade should be observed by a representative of the owner's engineer to evaluate the adequate stripping has been performed. Additionally, the proof rolling or compacting procedures outlined in the "standards for cut areas" section of these notes should be performed. It is typical practice to proof roll (and densify if necessary) exposed subgrades prior to filling. If soft or unstable subgrades are observed, these areas should be stabilized or undercut. Minimum compaction standards are based upon a percentage of the fill or backfill material's maximum standard proctor dry density (ASTM D698). All engineered subgrades should meet the following minimum compaction:
      - Areas under foundations bases:
        - 95% standard proctor for all fill placed below foundation base elevation in the building area.
        - Areas under floor slabs and above foundations/footing bases:
          - 90% standard proctor for all fill placed more than 12 inches below final grade for support of floor slabs and above foundation base elevation in the building area.
          - 95% standard proctor for fill placed in the upper 12 inches of design subgrade below slabs. The granular fill under the floor slab should be compacted to a minimum of 95% standard proctor.
      - Areas under parking areas:
        - 90% standard proctor for all fill placed more than 12 inches below passenger car pavement sections and 95% standard proctor for the top 12 inches.
      - Landscape areas:
        - 90% standard proctor for all fill placed in landscape areas. These areas should be brought to grade with "topsoil" to a depth of 12 inches in areas to be seeded, 6 inches in areas to be sodded, and 24 inches for all interior curbed landscape islands.
    - Base course portion of pavement sections:
      - 95% standard proctor for all base course materials that are part of a "pavement section".
  - The option of utilizing the modified proctor (ASTM D1557) in lieu of the specified standard proctor (ASTM D698) shall be at the discretion of the general contractor, contingent upon written approval by the architect and owner's engineer.
  - All backfill and fill materials shall be placed in lifts not greater than 8" in loose depth. Before compacting, moisten or aerate each layer as necessary to provide optimum moisture content. Compact each layer to required percentage of maximum density of the area.
- Finish grading:
  - The term "finish grading" as used herein shall be defined as that condition that areas not receiving a finish product such as parking areas, driveways, roadways, sidewalks, etc. Finish graded areas would generally be those areas receiving "landscaping" such as seed, sod, trees, bushes, mulch, etc.
  - The site contractor shall be responsible for "finish grading" the perimeter of the "construction site". The definition of the "construction site" is the area encompassing all disturbed areas that were disturbed as a result of the construction process relating to the general contract of which this site contract was part of.

## GENERAL PAVING NOTES

- All pavement shall be constructed in accordance with the following:
  - Concrete pavement shall be constructed in accordance with the Wisconsin Department of Transportation (WisDOT) (Standard Specifications), latest edition, including all updates and standards thereto.
  - All applicable state and local plumbing codes including (but not limited to) the City of Madison, WI.
  - Additional details and requirements provided in the contract documents, including this plan set.
- All proposed pavement areas shall be stripped of all topsoil and unsuitable material and excavated or filled to within 0.10 feet of design subgrade.
- The subgrade of pavement areas shall be free of all unsuitable material and shall be compacted to a minimum 98 percent of Standard proctor density.
- The subgrade of pavement areas shall be free of all unsuitable material. Inspection and approval of the subgrade and subbase by the City of Madison, WI is required for any public improvements under the City of Madison, WI's jurisdiction. Notify the engineer at least 48 hours prior to finished subgrade preparation.
- The earthwork contractor shall be responsible for removal of spoil material from the underground contractors, preparing the roadway subgrade, proof rolled, placing topsoil to a minimum depth of 3 inches to finished grade in the parkways areas only, grading of drainage swales, and all other tasks as directed by the owner or engineer.
- The quantities contained in these documents are approximate and estimated, and are presented as a guide to the contractor in determining the scope of work. It is the Contractor's responsibility to determine all quantities and to become familiar with the site and soil conditions.
- The paving Contractor is responsible for the final subgrade preparation, proof rolling, the pavement base, binder, and surface, and all final clean-up and related work associated with the paving operation.
- The proposed pavement shall be of the type and thickness as specified in the engineering drawings, and constructed in strict conformance with the previously referenced WisDOT standard specifications and the City of Madison, WI.
- Areas of deficient paving, including compaction, smoothness, thickness, and asphalt mixture, shall be delineated, removed, and replaced in compliance with Specifications requirements unless corrected otherwise as directed and approved by the engineer.
- Field quality control tests specified herein will be conducted by the owner's Independent Testing Laboratory (ITL) at no cost to the contractor. Any testing and inspection resulting from the requirements of necessary permits by the City of Madison, WI or the State of Wisconsin shall be at the contractor's expense. The contractor shall perform additional testing as considered necessary by the contractor for assurance of quality control. Retesting required as a result of failed initial tests shall be at the contractor's expense.
  - Field testing shall be performed by and between the owner, the ITL and the City of Madison, WI.
  - Testing shall be performed on finished surface of each asphalt concrete course for smoothness, using 10' 0" straightedge applied parallel with, and at right angles to centerline of paved area. The following tolerances in 10 ft shall not be exceeded: Base Course Surface: 1/4-inch; Wearing Course Surface: 1/8-inch.
  - No ponding shall occur on paved surfaces. Refer to "General Notes" in this plan set.

## DEMOLITION NOTES

- The contractor shall be responsible for the demolition and removal of all items that impede the proper placement of any items proposed by this plan set.
- The removal work shall include but not be limited to: obtaining all demolition permits required, removal of the existing trees, sealing of the existing water well(s), removal any septic system or dry wells (if any) and other items to complete the removal.
- The contractor shall remove all materials deemed unsuitable by the engineer within eight inches of the proposed building footprint to the depth that such unsuitable materials exist. Voids shall be filled in accordance with the "Earthwork Notes" on this plan sheet.
- Tree removal shall include the complete removal of all trees as indicated in the plan set.
- The contractor shall coordinate disconnection, removal, and relocation of the existing utilities with the appropriate utility companies. The contractor shall be responsible for all utility work that is required by utility companies, if required, to facilitate construction staging.
- Disposal of all materials shall comply with all local, state, and federal regulations. All waste material shall be disposed of off-site. The contractor shall be responsible for the removal of all materials from the site, including all associated permits and regulatory requirements.
- The contractor shall be familiar with the appropriate specifications for well abandonment, materials, procedures, and access to equipment required to properly seal wells (if any). The contractor shall be responsible to obtain, complete, and file the appropriate forms through the City of Madison, WI and the Wisconsin Department of Natural Resources (WDNR).
- The contractor shall maintain all existing utility services to adjacent lots. Interruption of services to adjacent lots shall not occur without proper approval. A minimum of 48 hours notice shall be given to the property owners prior to the connection of the new services. The contractor shall be responsible for costs associated with the connection of temporary utility services, if required, to facilitate construction staging.
- The contractor shall ensure that all existing parking, sidewalks, drives, etc., are free and clear of any construction activity and / or excavated and hauled material to ensure easy and safe pedestrian and vehicular traffic to and from adjacent sites.
- The contractor shall perform a full-depth saw cut along the perimeter of pavement removal that abuts existing pavement that is to remain.
- Any damage sustained by items that are to remain in place shall be repaired or replaced to the owner's satisfaction at no cost to the owner.

## STORM SEWER NOTES

- Storm sewer shall be constructed in accordance with the following:
    - All applicable state and local storm sewer codes (but not limited to State of Wisconsin Facility Development Manual)
    - Concrete pavement shall be constructed in accordance with the Wisconsin Department of Transportation (WisDOT) (Standard Specifications), latest edition, including all updates and standards thereto.
    - Standards and requirements of the City of Madison, WI.
    - Additional details and requirements provided in the contract documents, including this plan set.Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
  - Material Specifications. All storm sewer system elements shall conform to the following specifications:
    - Sewer Pipe. All storm sewer pipe shall be HDPE unless otherwise specifically noted in this plan set. All sewer pipe shall meet the requirements of Section 608 Storm Sewers of the Wisconsin Department of Transportation's Standard Specifications.
      - Corrugated polyethylene pipes--ASTM D2635
      - Bump pump service connection and storm sewer extension (4" and 6")--ABS sewer pipe or PVC sewer pipe ASTM D2751, SDR35, or ASTM D3034, SDR35, respectively.
      - Concrete sewer pipe (10" diameter and smaller), minimum Class 3, ASTM C14.
      - Reinforced concrete pipe (12" diameter and larger), circular reinforcement, minimum Class 3, wall B, ASTM C76.
      - Reinforced concrete arch culvert pipe--double line reinforcement, minimum Class 3, ASTM C506.
      - Reinforced concrete elliptical culvert pipe--minimum Class HE-III or VE-III, ASTM C507.
      - PVC underdrain pipe (4" and 6")--ASTM D2729, SDR35.
      - Galvanized corrugated steel culvert pipe AASHTO M246, Type B, minimum wall thickness 14 gauge (shall only be used for culverts).
    - Sewer Pipe Joints.
      - ABS pipe--ASTM C443.
      - PVC pipe--ASTM D3212, push-on type, except underdrain pipe which shall have solvent welded joints.
      - Reinforced concrete pipe--ASTM C443 ("O" ring).
      - Reinforced arch or elliptical pipe--ASTM C877.
    - Casing Pipes. Steel pipe--ASTM A120, 3/8" minimum thickness.
  - Manholes and Catch Basins.
    - Precast reinforced concrete--ASTM C478.
    - Size:
      - For sewer eighteen inches in diameter or less, manhole shall have a forty-eight inches inside diameter.
      - For sewer twenty-one to thirty-six inches in diameter, manhole shall have a sixty inch inside diameter.
      - For sewer greater than thirty-six inches in diameter, manhole shall have an offset riser pipe of forty-eight inches inside diameter.
    - Adjustment: No more than two precast concrete adjusting rings with six inch maximum height adjustment shall be allowed.
    - Pipe and frame seals: All pipe connection openings shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole cone to the manhole frame.
    - Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
  - Inlets.
    - Precast reinforced concrete--ASTM C478 and ASTM C443.
    - Size: Inlets shall have a twenty-four inch inside diameter and a maximum depth of four feet.
    - Adjustment: No more than two precast concrete adjusting rings with six inch maximum height adjustment shall be allowed.
    - Only one pipe connection is allowed, and it shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole cone to the manhole frame.
    - Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
  - Castings (Unless otherwise noted within the plans)
    - Manhole frames shall be precast with resilient rubber gaskets unless specified as a "closed lid" in this plan set. Closed lid frame and covers shall be:Neenah No. R-1772-C embossed "STORM SEWER".
    - Manhole steps--Neenah No. R-1981-1.
    - Six inch curb and gutter inlet--Neenah No. R-3032.
    - Yard inlet--Neenah No. R-2579.
    - Parking lot inlet--Neenah No. R-2450.
    - Crushed Granular Bedding: Crushed gravel or crushed stone course aggregate--ASTM C33, Size No. 67.
- All end sections 24" and greater shall come equipped with trash grate and toe block in compliance with Wisconsin Department of Transportation standard. Inlets shall be precast with resilient rubber gaskets before being lowered into the trench, piece by piece. Remove and replace defective, damaged or unsafe pipe or pipe that has had its grade disturbed after laying. Protect open ends with a stopper to prevent earth or other material from entering the pipe during construction. Remove dirt, excess water, and other foreign materials from the interior of the pipe during the pipe laying progress.
- Install pipe in accordance with manufacturer's written recommendations.
- Commence installation at the lowest point for each segment of the route. Lay RCP with the groove or bell end up-stream.
- Lay pipe to the required line and slope gradients with the necessary fittings, bends, manholes, risers and other appurtenances placed at the required location as noted on Drawings.
- Storm sewer underdrains within two feet of any existing or proposed pavement shall be backfilled with granular backfill material meeting Wisconsin standard specifications (WisDOT 17 Spec - Section 209/AASHTO T27).
- Compact backfill to 98 percent of maximum density in accordance with ASTM D698, (or 95 percent of maximum density, in accordance with ASTM D1557) obtained at optimum moisture as determined by AASHTO T180.
- Do not backfill trenches until required tests are performed and utility systems comply with and are accepted by applicable governing authorities.
- Backfill trenches to contours and elevations shown on the drawings.
- As per State of Wisconsin statutes SPS 382.30(11)(h), SPS 382.36(7)(d)10.a, and SPS 382.40(8)(k), a means to locate buried underground exterior non-metallic sanitary and storm sewers/main and water services/main must be provided with tracer wire or other methods in order to be located with the provisions of these code sections as per 182.0715(2) of these statutes.
- As per State of Wisconsin 384.30(3)(c), storm sewer building pipes shall conform to on of the standards listed in Table 384.30-6.

## WATER UTILITY NOTES

- Water mains and services shall be constructed in accordance with the following:
  - Department of Safety and Professional Services (SPS), Chapter 382 Design, Construction, Installation, Supervision, Maintenance and Inspection of Plumbing (State of Wisconsin), dated December 2015, and all revisions and supplements thereto.
  - All applicable state and local plumbing codes.
  - Additional details and requirements provided in the contract documents, including this plan set.Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
- Contact all public and private utility companies 48 hours prior to any excavation. Cost of replacement or repair of existing utilities damaged as a result of the contractor's operation shall be the contractor's responsibility.
- All water main and service pipe greater than 2" in diameter shall be Ductile Iron Pipe in accordance with C151, Class 52 in accordance with AWWA standard C150 and C104. Fittings shall comply with AWWA C110. Joints--mechanical and push-on shall comply with AWWA C111.
- The minimum cover for all water main and water service pipe is 6" from finished grade or top of pipe.
- All water mains under and within two feet of any existing or proposed pavement or curb shall be backfilled with WisDOT approved granular backfill material. Trench and backfill shall be placed in lifts not to exceed 12" compacted to 95% of maximum Standard proctor density.
- All valves shall be butterfly Mueller model B3211-20 or gate Mueller model A-2370-20 valves with mechanical joints, resilient seat wedge type, with cast iron body, bronze mounted, bronze non-rising stem, double disc pattern, designed for 300 pounds working pressure meeting AWWA Standard C509. All valves shall be installed in accordance with the manufacturer's instructions.
- Water main separation from storm and sanitary sewer shall conform to Wisconsin Administrative Code Chapter NR 811.
- The water service pipe shall be 2" 0" Type K Copper tubing.
- Connections to Existing Mains. All connections to the City of Madison, WI water distribution system shall be made under full water service pressure unless otherwise approved by the City of Madison, WI Engineer at locations approved by the City of Madison, WI Engineer.
- Pressure Test.
  - As part of the construction, the water mains shall be pressure tested in accordance with Wisconsin standard specifications.
  - All newly laid pipe shall be subjected to a hydrostatic pressure of 150 pounds per square inch. Duration of each pressure test shall be for a period of not less than two hours. Each valved section of pipe shall be filled with water and the specified test pressure shall be applied by means of a pump connected to the pipe.
  - Before applying the specified test pressure, all air shall be expelled from the pipe. All leaks shall be repaired until tight. Any cracked or defective pipes, fittings, valves, or hydrants discovered in consequence of this pressure test shall be removed and replaced and the test repeated until satisfactory results are obtained.
- All testing shall be done after the installation of service lines. Suitable means shall be provided for determining the quantity of water lost by leakage under the specified test pressure in accordance with Wisconsin Administrative Code Chapter NR 811.
- Disinfection.
  - Water from the existing distribution system or other source of supply shall be controlled so as to flow slowly into the newly laid pipeline during the application of chlorine gas. The rate of chlorine mixture flow shall be in such proportion to the rate of water entering the pipe that the chlorine dose applied to the water entering the newly laid pipe shall be at least forty to fifty ppm, or enough to meet the requirements during the retention period. This may require as much as one hundred ppm of chlorine in the water left in the line after chlorination.
  - Valves shall be manipulated so that the strong chlorine solution in the line being treated will not flow back into the line supplying the water.
  - Treated water shall be retained in the pipe long enough to destroy all spore-forming bacteria. This retention period shall be at least twenty-four hours. After the chlorine-treated water has been retained for the required time, the chlorine residual at the pipe extremities and at other representative points shall be at least ten ppm.
  - In the process of chlorinating newly laid pipe, all valves or other appurtenances shall be operated while the pipeline is filled with the chlorinating agent.
  - All water mains and services shall be disinfected and tested according to the requirements of the Standards for Disinfecting Water Mains, AWWA C601. All disinfection shall be performed by an independent firm exhibiting experience in the methods and techniques of this operation, and shall be approved by the City of Madison, WI.
- Final Flushing and Testing.
  - Following disinfection, all treated water shall be thoroughly flushed from the newly laid pipeline at its extremities until the replacement water, throughout its length shall, upon test, be approved as safe water by the City of Madison, WI Engineer. This quality of water delivered by the new main should continue for a period of at least two full days as demonstrated by laboratory examination of samples taken from a tap located and installed in such a way as to prevent outside contamination. Samples should never be taken from an unsterilized hose or from a fire hydrant, because such samples seldom meet current bacteriological standards.
  - After disinfecting and flushing, water samples shall be collected by the contractor on two successive days, with notice given, so that the collection may be witnessed by the City of Madison, WI. Bacteriological sampling and analysis of the samples shall be performed by a laboratory approved by the Wisconsin Department of Public Health and the City of Madison, WI. Should the initial treatment result in an unsatisfactory bacterial test, the contractor shall be responsible for the cost of re-treatment and the laboratory retest and analysis. Results of the sampling and analysis. Results of the analysis shall be transmitted by the laboratory directly to the City of Madison, WI Engineer. Test results shall indicate the date the sample was collected, the date the analysis was made, the exact locations at which samples were taken, the firm submitting the sample, and the project at which the samples were collected. Such information shall be provided to the City of Madison, WI Engineer on or before the date the analysis is bacteriologically safe.
- Record Drawings are required by the City of Madison, WI. The Contractor shall record measurements from property pins to the centers of the valve lids and curb boxes. Each measurement shall be parallel or perpendicular to the property line.
- Any areas where solid rock is encountered when laying the water main, approved bedding material shall be used.
- As per State of Wisconsin SPS 382.40(9)(b), exterior water supply piping setbacks and crossings shall be in accordance with sub. 2 to 7.
- As per State of Wisconsin SPS 384.30(4)(d), materials for water service and private water main shall conform to one of the standards listed in Table 384.30-7.

## PAVEMENT MARKING NOTES

- Apply two (2) coats for all pavement markings.
- Material description: a fast drying, high riding marking paint for concrete, brick and bituminous surface. This product has been designed for painting centerlines and edgelines of highways, City crosswalks and stop zones, parking lots, traffic aisles, etc. Do not apply to temperatures below 50 F.



PROJECT NAME  
OWNERS NAME

POPEYES  
MADISON, WI

6831 ODANA RD

MADISON, WI

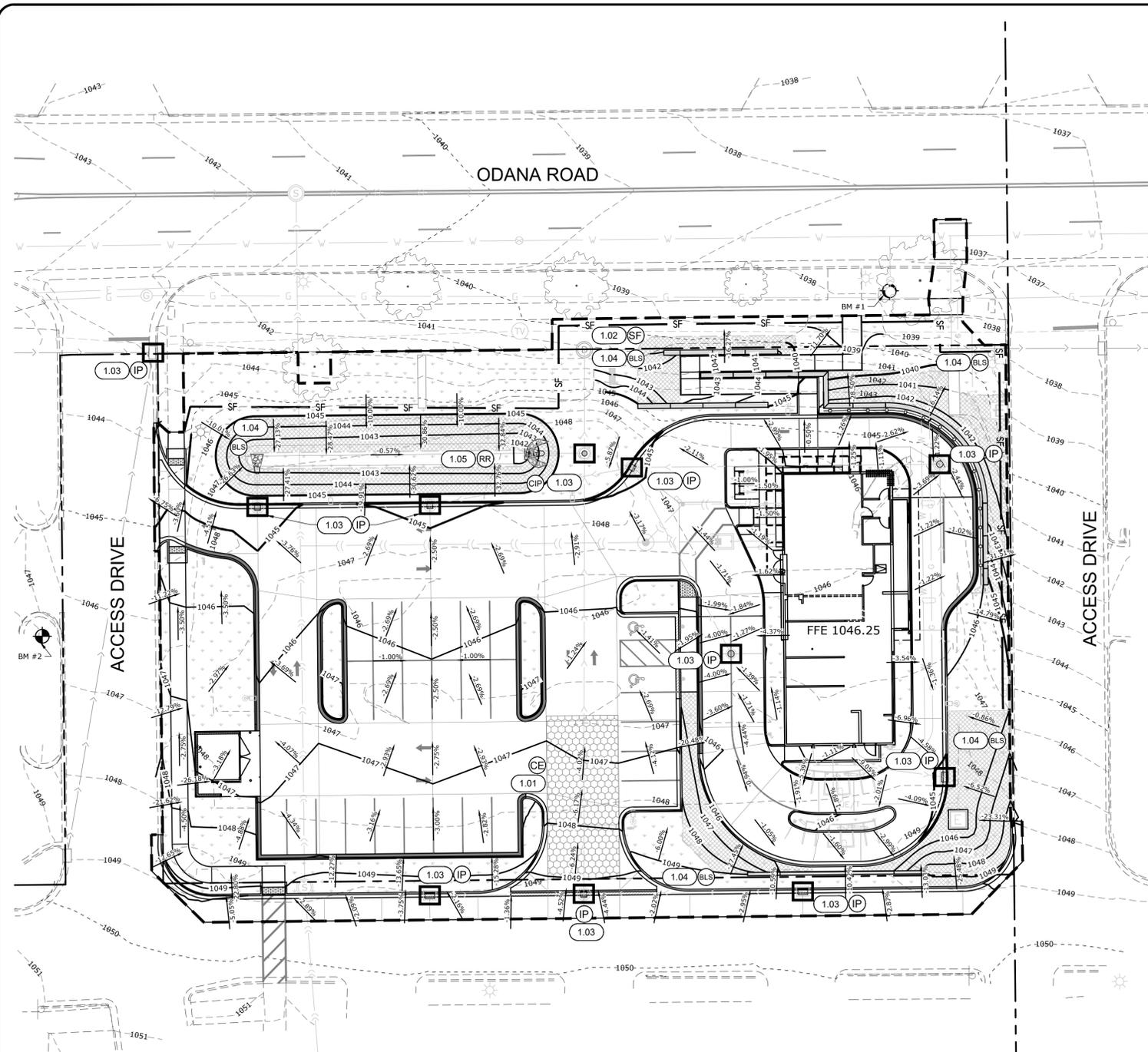
DANE COUNTY

ABYGROUPS  
200 S FRONTAGE RC STE 330  
BARR RIDGE, IL 60527  
(847) 208-5656

CONSULTANTS

ISSUED FOR

1. AGENCY REVIEW	DATE
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### LEGEND

SEE SITE PLAN SET FOR EXISTING SYMBOLS		EROSION CONTROL LEGEND	
	PROPERTY LINE		TEMPORARY STONE CONSTRUCTION EXIT
	LIMITS OF DISTURBANCE		TEMPORARY SILT FENCE
	APPROXIMATE LIMITS OF GRADING		INLET PROTECTION PER STRUCTURE TYPE
	EXISTING STORM SEWER		SHORT TERM SLOPE EROSION CONTROL BLANKET DURING CONSTRUCTION ACTIVITIES
	PROPOSED STORM SEWER		PERMANENT RIP RAP PAD - SEE CITY OF MADISON ENGINEERING DETAIL 5.4.4 RIP RAP AT APRON ENDWALLS
	PROPOSED CONTOUR LINE		
	EXISTING CONTOUR LINE		
	PROPOSED CURB AND GUTTER		
	PROPOSED CATCH BASIN OR MANHOLE		
	PROPOSED FLARED END SECTION		
	1.6% DIRECTION OF OVERLAND FLOW AND SLOPE		
	LANDSCAPED AREA		
	SEE SPECIFIC KEY NOTE ON THIS SHEET		

### EROSION CONTROL REFERENCE NOTES

- 1.01 SEE CITY OF MADISON ENGINEERING STANDARD DETAIL DRAWING 1.07 CONSTRUCTION ENTRANCE ON SHEET C12 - CITY OF MADISON DETAILS. THE CONSTRUCTION EXIT SHALL BE A MINIMUM OF 12' IN WIDTH AND 50' FEET IN LENGTH FROM EXISTING PAVED SURFACE. ALL CONSTRUCTION TRAFFIC MUST UTILIZE CONSTRUCTION EXITS PER DETAIL TO ACCESS THE PUBLIC ROAD. DURING CONSTRUCTION, THE CONSTRUCTION EXITS MAY BE SHIFTED AT THE CONTRACTOR'S DISCRETION TO FACILITATE GRADING OPERATION. EXIT MUST TERMINATE AT EXISTING PAVED SURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE RUNOFF FROM THE CONSTRUCTION EXIT IS DIRECTED BACK TOWARD THE SITE OR THAT THE RUNOFF IS CLEAR OF SEDIMENT.
- 1.02 SEE WISDOT SILT FENCE DETAIL SDD 889-6 AND INCLUDED ON SHEET C14 - WISDOT DETAILS. THE CONTRACTOR MAY PERMANENTLY REMOVE ANY PORTION OF THE PERIMETER SILT FENCE AFTER ESTABLISHMENT OF FINAL GRADE AND/OR FINAL STABILIZATION RENDERS THE RESPECTIVE PORTION OF THE PERIMETER SILT FENCE UPSTREAM OF A DISTURBANCE AND/OR INEFFECTIVE AS A BEST MANAGEMENT PRACTICE. ANY SUCH REMOVAL SHALL BE NOTED ON THE EROSION CONTROL SITE MAPS ALONG WITH UPSTREAM STABILIZATION AND GRADING CONDITIONS.
- 1.03 SEE WISDOT INLET PROTECTION TYPE A, B, C, AND D DETAIL. SDD 8610-2 OR SDD 868-3 AND INCLUDED ON SHEET C14 - WISDOT DETAILS OR CITY OF MADISON ENGINEERING STANDARD DETAIL 1.11 RIGID FRAME INLET PROTECTION ON SHEET C12 - CITY OF MADISON DETAILS. NO STRUCTURE SHALL BE ALLOWED TO BE PROTECTED WITH ANY MEASURE OTHER THAN THOSE DETAILED IN THIS SWPPP SITE MAP FOR MORE THAN 48 HOURS OR IF RAIN IS IMMINENT. STRUCTURES THAT WILL NOT RECEIVE A CASTING WITHIN 48 HOURS OF INSTALLATION SHALL RECEIVE INLET PROTECTION. UPON INSTALLATION OF THE GRATE, INLET PROTECTION SHALL BE INSTALLED RESPECTIVE TO THE TYPE OF GRATE. STRUCTURES WITH CLOSED LIDS WILL NOT REQUIRE PROTECTION FOLLOWING INSTALLATION OF LID. CONTRACTOR SHALL NOTE TIME STRUCTURE INSTALLATION (AND PROTECTION INSTALLATION, INCLUDING TYPES OF PROTECTION) ARE EMPLOYED. WHENEVER PIPE INSTALLATION IS HALTED FOR MORE THAN 24 HOURS OR WHEN RAIN IS IMMINENT, THE OPEN END SHALL BE PROTECTED WITH A TEMPORARY BULK HEAD. A 3/4" SHEET OF PLYWOOD THAT EXTENDS 6" BEYOND THE OUTSIDE DIAMETER OF THE PIPE SHALL BE PLACED AGAINST THE EXPOSED PIPE END. GRAVEL SHALL BE PLACED AGAINST THE PLYWOOD IN SUFFICIENT QUANTITY SO AS TO ENSURE THE TIGHTEST POSSIBLE SEAL. THE TRENCH SHALL BE DEWATERED PRIOR TO REMOVING THE BULKHEAD.
- 1.04 SEE CITY OF MADISON ENGINEERING STANDARD DETAIL DRAWING 1.02 EROSION MAT ON SHEET C12 - CITY OF MADISON DETAILS. SHORT TERM EROSION CONTROL FABRIC SHALL BE APPLIED TO ALL SLOPES 4:1 OR STEEPER THAN 4:1 PRIOR TO PERMANENT SEEDING. FOLLOW MANUFACTURER SPECIFICATIONS FOR INSTALLATION. CONTRACTOR SHALL NOTE ALL AREAS WHERE EROSION MAT HAS BEEN INSTALLED RELATIVE TO ASBUILT GRADES AND FURNISH THESE BOUNDARIES TO THE CIVIL ENGINEER UPON REQUEST. PERMANENT SEEDING SHOULD BE PLANTED AS SOON AS IT IS PRACTICAL TO ENSURE PROPER GERMINATION PRIOR TO TERMINATION OF PERMIT COVERAGE. THE CONTRACTOR SHALL PLANT PERMANENT SEEDING AS SPECIFIED ON THE LANDSCAPING PLAN AS SOON AS FINAL BASIN GRADES ARE ESTABLISHED AS SPECIFIED ON THE GRADING PLAN. SEE SITE LANDSCAPING PLAN FOR EXACT GROUND COVER TYPE AND LOCATION.
- 1.05 SEE CITY OF MADISON ENGINEERING STANDARD DETAIL DRAWING 5.4.4 RIP RAP AT APRON ENDWALLS ON SHEET C13 - CITY OF MADISON DETAILS.

### STORMWATER OUTFLOW CONTRIBUTING AND RECEIVING WATERS

FROM SITE - DRAINAGE AREA "A" (0.97 ACRES) CONSISTING OF LANDSCAPED AREAS, PAVED AREAS AND ROOF TOP AREAS. ALL FLOWS TREATED BY PERIMETER AND INTERMEDIATE BMP'S AND TRANSPORTED VIA OVERLAND AND STORM SEWER. THIS DRAINAGE AREA ULTIMATELY DRAINS TO THE SOUTHEAST OF THE SITE WHERE IT LEAVES THE SITE VIA UNDERGROUND STORM SEWER IN THE ODANA ROAD RIGHT OF WAY.

TO RECEIVING WATERS - ULTIMATELY CONVEYED TO THE ROCK RIVER.

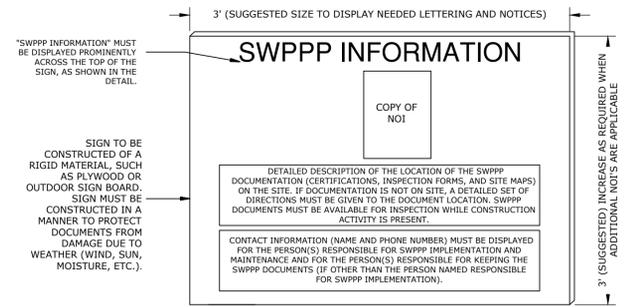
### SITE ADDRESS OR INTERSECTION

SITE LOCATION, ADDRESS OR INTERSECTION CORNER IN DANE COUNTY, BEING A PORTION OF THE NORTHWEST 1/4 OF SECTION 25, TOWNSHIP 7 NORTH, RANGE 8 EAST, OF THE THIRD PRINCIPAL MERIDIAN.  
 LATITUDE: 43.05628°  
 LONGITUDE: -89.50016°  
 ADJACENT PROPERTIES: THE SITE IS BORDERED BY MULTI-TENANT COMMERCIAL BUILDINGS TO THE NORTH, EAST, AND SOUTH, AND A FAST FOOD RESTAURANT TO THE WEST.  
 SITE TOPOGRAPHY: THE SITE GENERALLY SLOPES FROM THE SOUTH TO THE NORTH, WITH THE LOWEST POINTS BEING AT THE NORTHEAST CORNER OF THE SITE. THE EXISTING SITE SERVES AS A PARKING AREA WITH ASPHALT PARKING AREAS AND LANDSCAPED AREAS.  
 RAINFALL INFORMATION: THE TOTAL AVERAGE ANNUAL RAINFALL FOR THE PROJECT AREA IS APPROXIMATELY 36 INCHES.  
 POST CONSTRUCTION CONDITIONS: POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 64 (IMPERVIOUS CN = 38, PERVIOUS C = 61).  
 TOTAL SITE AREA, LIMITS OF SITE = 0.97 AC±  
 LIMITS OF DISTURBANCE = 1.07 AC±  
 SITE IMPERVIOUS AREA: 0.81 AC±  
 SITE LANDSCAPED AREA: 0.36 AC±  
 ENVIRONMENTAL PERMITS - OTHER THAN NPDES, STORMWATER AND/OR EROSION AND SEDIMENT CONTROL, WETLANDS-NONE  
 THREATENED AND ENDANGERED SPECIES: THERE ARE NO KNOWN ISSUES RELATED TO THREATENED AND ENDANGERED SPECIES  
 HISTORICAL PROPERTIES: THERE ARE NO KNOWN ISSUES RELATED TO HISTORICAL PRESERVATION

### SEQUENCE OF CONSTRUCTION

1. PLACE SWPPP BOX ON SITE. SWPPP BOX SHALL CONTAIN A COPY OF THE LETTER OF COVERAGE AND ILLINOIS GENERAL PERMIT. SWPPP BOX SHALL CONSIST OF LARGE MAILBOX WITH THE LETTERS "SWPPP" ON THE SIDES. MAILBOX SHALL BE SUPPORTED BY A 4"x4" POST IN A 5-GALLON BUCKET OF CONCRETE. TO ALLOW THE BOX TO BE PORTABLE AND REUSABLE.
2. PREPARE TEMPORARY PARKING AND STORAGE AREA. UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, ETC. DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
3. CONSTRUCT THE SILT FENCES ON THE SITE. INSTALL INLET PROTECTION DEVICES IN EXISTING STRUCTURES.
4. DEMOLISH BUILDINGS.
5. TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
6. CONSTRUCT TEMPORARY SEDIMENT TRAP AND INSTALL OUTLET CONTROL PROTECTION AND LEVEL SPREADER
7. INSTALL UTILITIES, UNDERDRAINS, AND STORM SEWERS. INSTALL INLET PROTECTION CONCURRENTLY.
8. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
9. PREPARE AREA OF SITE FOR PAVING FOR PARKING AREAS.
10. PAVE AREA OF SITE.
11. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
12. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED.)

### SWPPP INFORMATION SIGN



**ARC DESIGN RESOURCES INC.**  
 5281 ZENITH PARKWAY  
 LOVES PARK, IL 61111  
 VOICE: (815) 484-4300  
 FAX: (815) 484-4303  
 www.arcodesign.com  
 Design Firm License No. 2411-11

PROJECT NAME  
OWNER'S NAME

**POPEYES  
MADISON, WI**

6831 ODANA RD  
MADISON, WI  
DANE COUNTY

ABYGROUPS  
200 S FRONTAGE RC STE 330  
BURR RIDGE, IL 60527  
(847) 208-5656

CONSULTANTS

ISSUED FOR	DATE
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SHEET TITLE

**SWPPP PLAN**

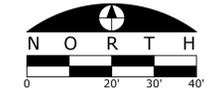
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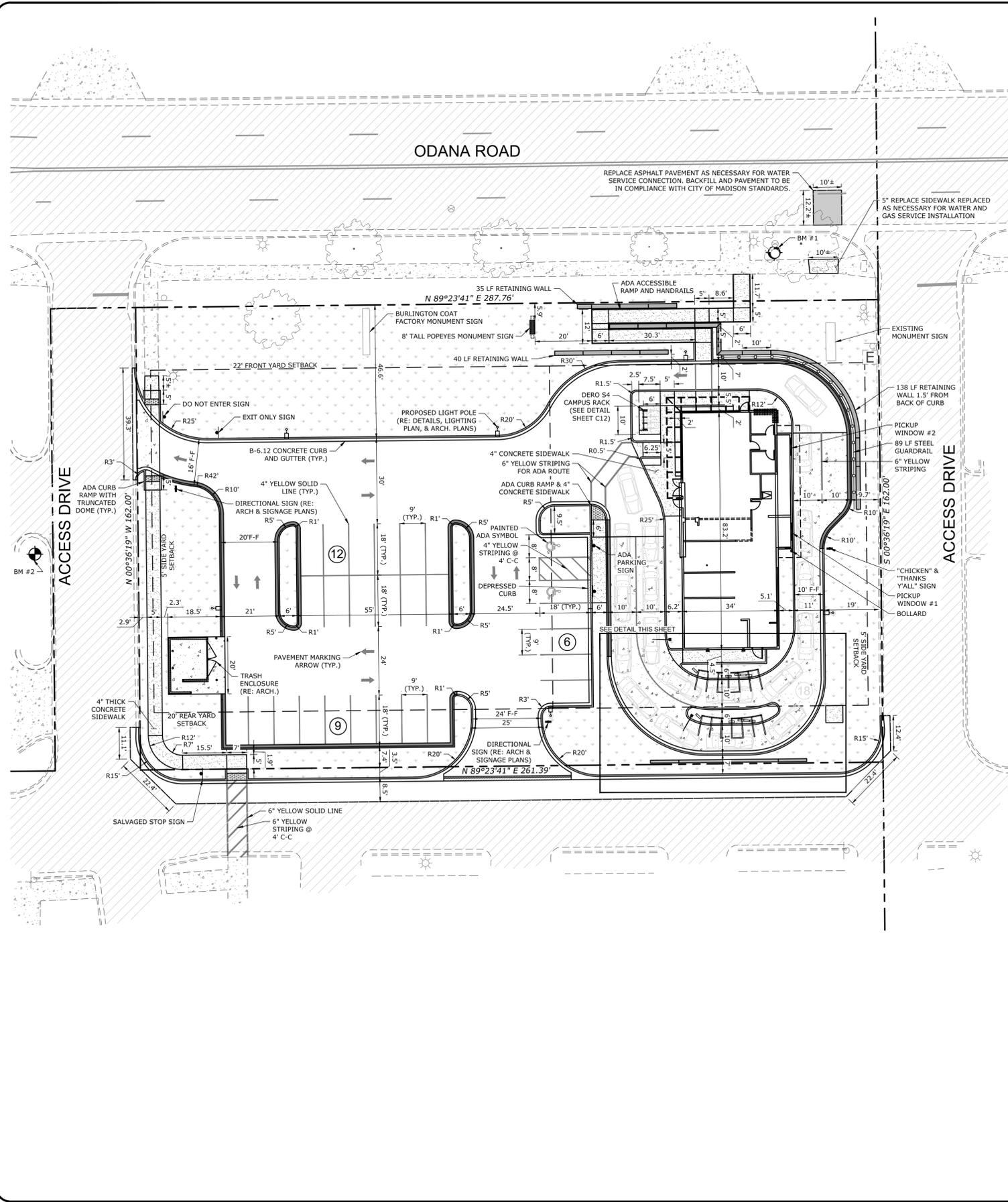
**19055**

**C02**

BENCHMARKS (NAVD88 DATUM)	
<b>BENCHMARK 1</b> X CUT ON SW BOLT OF FIRE HYDRANT LOCATED APPROXIMATELY 30' SOUTH OF CL OF ODANA ROAD AND 50' WEST OF THE CL OF THE ACCESS DRIVEWAY TO THE EAST OF THE SITE	1039.69
<b>BENCHMARK 2</b> BOX CUT ON LIGHT POLE BASE LOCATED ON BURGER KING LOT, LOCATED APPROXIMATELY 22' WEST OF THE CL OF THE ACCESS DRIVEWAY TO THE WEST OF THE SITE	1049.38



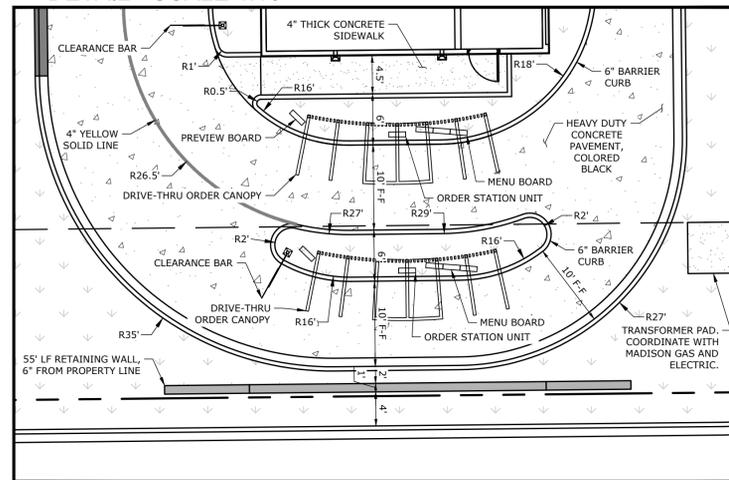




**LEGEND**

- PROPERTY LINE
- - - PROPOSED YARD SETBACK LINE
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF PAVEMENT
- ===== PROPOSED CONCRETE CURB AND GUTTER (B-6.12)
- ===== PROPOSED TYPE B-6.12 CONCRETE CURB AND GUTTER (REJECTING)
- ===== PROPOSED DEPRESSED CURB AND GUTTER
- ===== PROPOSED 6" CONCRETE BARRIER CURB
- ===== PROPOSED RETAINING WALL
- PROPOSED GUARDRAIL
- PROPOSED LIGHT POLE (SEE DETAILS, LIGHTING PLAN, AND ARCH. PLANS)
- EXISTING BENCHMARK
- EXISTING LIGHT POLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING SIGN
- PROPOSED PARKING STALLS AND STRIPING
- PROPOSED ADA PARKING SPACE
- NUMBER OF PROPOSED PARKING SPACES IN A ROW
- PROPOSED 4" CONCRETE SIDEWALK
- PROPOSED HEAVY-DUTY CONCRETE PAVEMENT (SEE DETAIL)
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED LANDSCAPED AREA (SEE LANDSCAPING PLANS)
- EXISTING TREE

**DETAIL - SCALE 1:10**



**LAYOUT NOTES**

1. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, CURB OR PAVEMENT 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.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
3. DIMENSIONS THAT LOCATE THE BUILDING ARE MEASURED TO THE OUTSIDE FACE OF THE BUILDING.
4. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
5. COORDINATE WORK WITHIN THE PRIVATE DRIVE AND ADJACENT LOT WITH THE PROPERTY OWNERS. COORDINATE WITH WITHIN THE ODANA ROAD RIGHT OF WAY WITH THE CITY OF MADISON, WI. TRAFFIC CONTROL SHALL CONFORM TO WISDOT STANDARDS FOR WORK WITHIN THE R.O.W.
6. ALL RADII ARE DIMENSIONED TO THE BACK OF CURB.
7. ALL CURBS AND GUTTER IS INTEGRAL TO PAVEMENT UNLESS NOTED OTHERWISE. REFER TO THE DETAIL SHEETS FOR CURB DETAILS.
8. SOME FIELD ADJUSTMENTS MAY BE NECESSARY AT POINTS WHERE PROPOSED PAVEMENT, CURBS AND SIDEWALKS MEET EXISTING PAVEMENT, CURB AND SIDEWALKS. REVIEW ANY REQUIRED CHANGES WITH ENGINEER PRIOR TO CONSTRUCTION OF WORK.
9. ELECTRICAL CIRCUITRY TO SITE LIGHTING AND MONUMENT SIGN SHOWN ON ARCHITECTURAL PLANS.
10. FOR ALL PAVEMENT REMOVALS, THE MINIMUM WIDTH FROM THE EDGE OF THE CURB TO THE FULL-DEPTH SAW CUT IS 2'.
11. FOR ALL SIDEWALK REMOVALS, SAW CUT AT NEAREST JOINT. LIMITS OF SIDEWALK REMOVAL MAY VARY BASED ON JOINT LAYOUT.
12. FOR ALL PAVEMENT PATCHING WITHIN THE RIGHT OF WAY THE BACKFILL MATERIAL USED SHALL BE CONTROLLED LOW STRENGTH MATERIAL UP TO THE BOTTOM OF THE PAVEMENT. THE THICKNESS OF THE HMA PAVEMENT REPLACEMENT SHALL BE A MINIMUM OF THE SAME THICKNESS AS THE EXISTING PAVEMENT STRUCTURE. THE MIXES USED SHALL BE HMA BINDER AND SURFACE COURSE ACCORDING TO WISDOT AND CITY OF MADISON, WI STANDARDS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION, COORDINATION AND OBTAINING APPROVAL OF A TRAFFIC MANAGEMENT PLAN IF CLOSURES OF LANES EXCEED THE CRITERIA ESTABLISHED IN THE BDE MANUAL.

**PARKING TABLE**

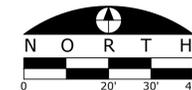
NUMBER OF PARKING STALLS REQUIRED (15% of maximum 70 persons occupancy)	11 (1 - A.D.A.)
NUMBER OF BICYCLE STALLS REQUIRED (5% of maximum 70 persons occupancy)	4
NUMBER OF PARKING STALLS ALLOWED (40% of maximum 70 persons occupancy)	28 (2 - A.D.A.)
NUMBER OF PARKING STALLS PROPOSED	27 (2 - A.D.A.)
NUMBER OF BICYCLE STALLS PROPOSED	4

**SITE AREA TABLE**

LANDSCAPED AREA	15,388 SF (0.35 AC)
PAVED AREA	23,973 SF (0.55 AC)
GROSS BUILDING FLOOR AREA	2,984 SF (0.07 AC)
TOTAL SITE AREA	42,375 SF (0.972 AC)
% IMPERVIOUS AREA	63.6%

**BENCHMARKS** (NAVD88 DATUM)

<b>BENCHMARK 1</b> X CUT ON SW BOLT OF FIRE HYDRANT LOCATED APPROXIMATELY 30' SOUTH OF CL OF ODANA ROAD AND 50' WEST OF THE CL OF THE ACCESS DRIVEWAY TO THE EAST OF THE SITE	1039.69
<b>BENCHMARK 2</b> BOX CUT ON LIGHT POLE BASE LOCATED ON BURGER KING LOT, LOCATED APPROXIMATELY 22' WEST OF THE CL OF THE ACCESS DRIVEWAY TO THE WEST OF THE SITE	1049.38



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 Design Firm License No. 2411-11

PROJECT NAME  
 OWNER'S NAME  
**POPEYES MADISON, WI**  
 6831 ODANA RD  
 MADISON, WI  
 DANE COUNTY  
 ABYGROUPS  
 200 S FRONTAGE RC STE 330  
 BURR RIDGE, IL 60057  
 (847) 208-5656

CONSULTANTS

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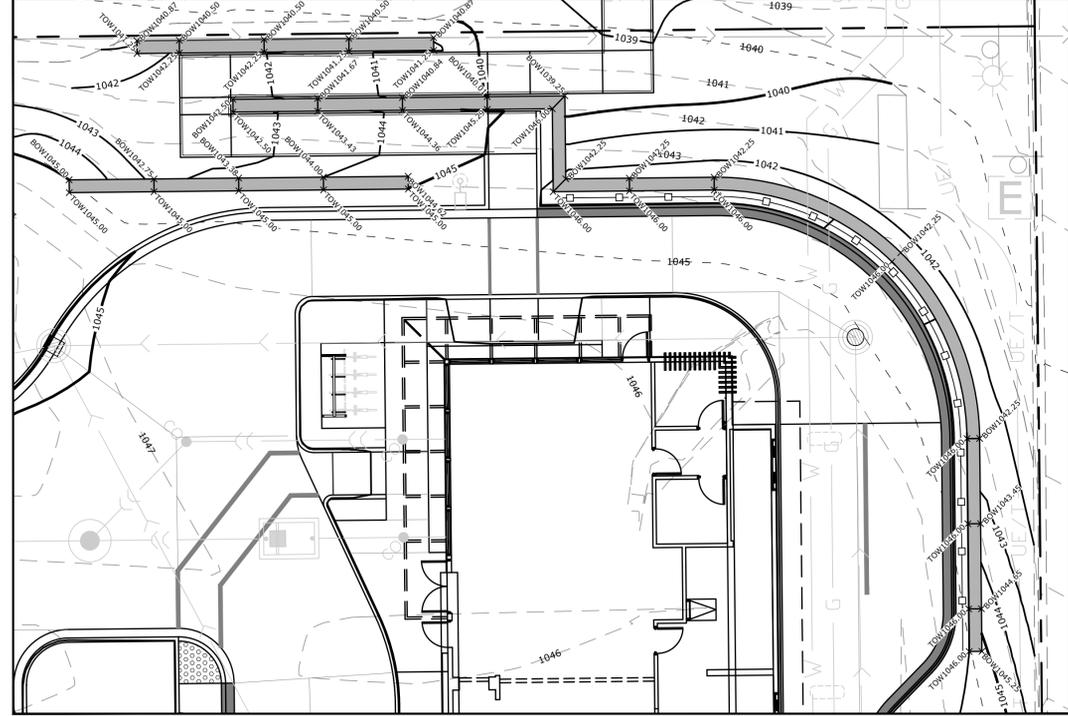
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**LAYOUT PLAN**

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PROJECT NUMBER  
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**19055**  
**C04**



RETAINING WALL GRADING DETAIL - SCALE 1:10

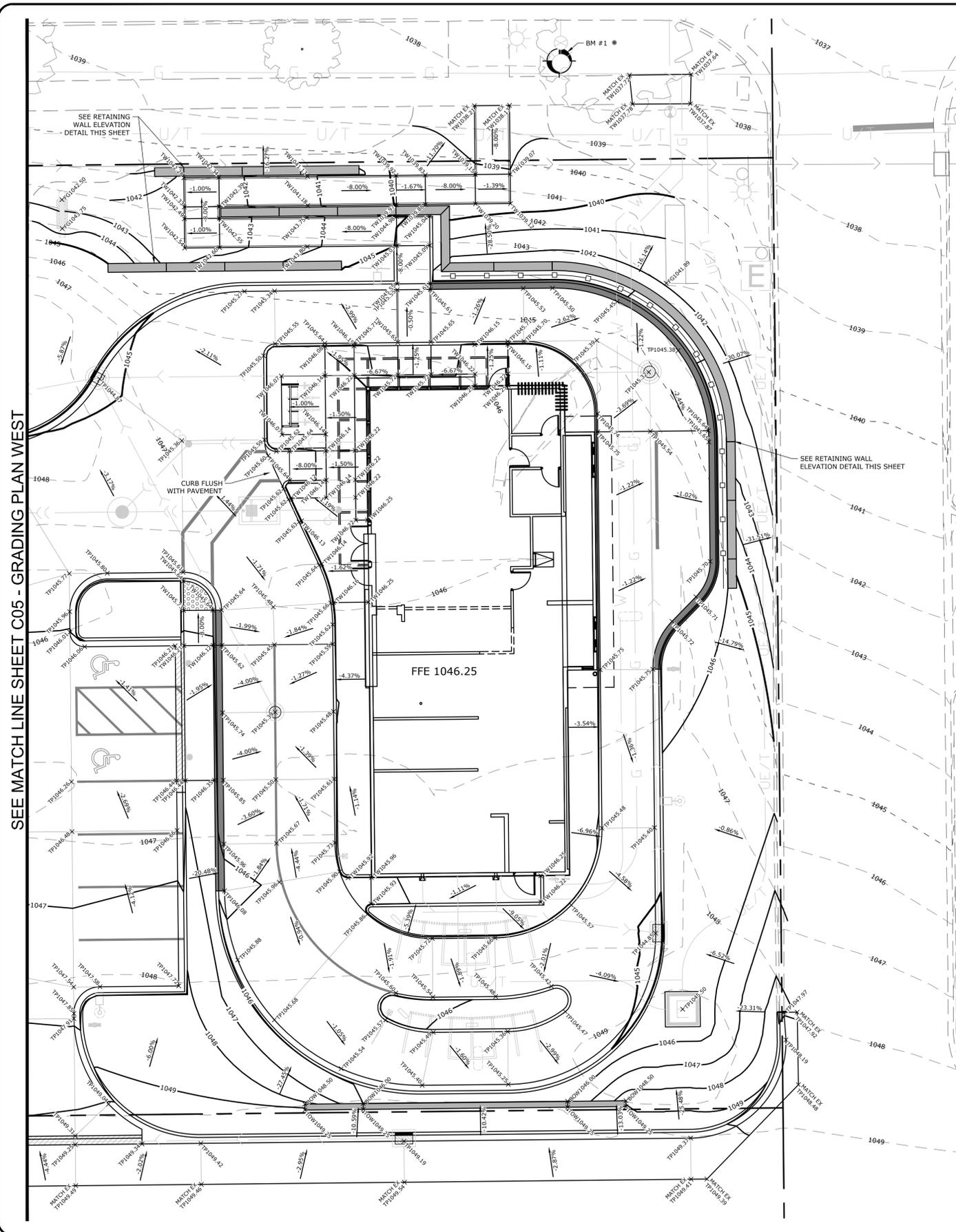
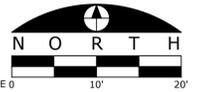


LEGEND

- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF PAVEMENT
- PROPOSED CONCRETE CURB AND GUTTER (B-6.12)
- PROPOSED TYPE B-6.12 CONCRETE CURB AND GUTTER (REJECTING)
- PROPOSED DEPRESSED CURB AND GUTTER
- PROPOSED 6" CONCRETE HEADER CURB
- PROPOSED RETAINING WALL
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE BREAK LINE
- APPROXIMATE LIMITS OF GRADING
- PROPOSED CONTOUR LINE
- EXISTING CONTOUR LINE
- PROPOSED CATCH BASIN OR MANHOLE
- PROPOSED FLARED END SECTION
- 1.6% DIRECTION OF SHEET FLOW
- + TW000.00 TOP OF SIDEWALK ELEVATION
- + MATCH EX TW000.00 MATCH EXISTING TOP OF PAVEMENT ELEVATION
- + TP000.00 TOP OF PAVEMENT ELEVATION
- + MATCH EX TP000.00 MATCH EXISTING TOP OF PAVEMENT ELEVATION
- + FG000.00 FINISHED GRADE ELEVATION
- + TOW000.00 TOP OF WALL ELEVATION
- + BOW000.00 BOTTOM OF WALL ELEVATION
- BENCHMARK

GRADING NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL OR VERTICAL CONTROL BY REFERENCING SHOWN COORDINATES OR ELEVATIONS TO HORIZONTAL OR VERTICAL CONTROL POINTS PRIOR TO PROCEEDING WITH WORK.
2. ALL UNSURFACED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND SODDED (OR SEEDS WHERE NOTED) AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
3. ALL STORM SEWER PIPE IS TO BE REINFORCED CONCRETE CULVERT PIPE CLASS IV UNLESS OTHERWISE NOTED. WHERE HDPE OR PVC PIPE IS LISTED AS ACCEPTABLE MATERIALS, PVC SDR 35, HDPE DOUBLE WALL (ADS N-12), OR PVC SCHEDULE 40 MAY BE USED AT THE CONTRACTOR'S DISCRETION.
4. THE MAXIMUM SLOPE RATIO ON CUT/FILL SLOPES IS 3.0 HORIZONTAL TO 1 VERTICAL.
5. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL SET ALL CLEANOUT, MANHOLE AND INLET CASTINGS, FIRE HYDRANTS AND VALVE BOXES TO FINISHED GRADE.
7. ALL PROPOSED PAVED AREAS SHALL BE STRIPPED OF ALL TOPSOIL AND UNSUITABLE MATERIAL AND EXCAVATED OR FILLED TO WITHIN 0.10 FEET OF DESIGN SUBGRADE.
8. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE CONCLUSION OF EACH WORKING DAY.



SEE MATCH LINE SHEET C05 - GRADING PLAN WEST

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OWNER'S NAME

**POPEYES  
MADISON, WI**

6831 ODANA RD  
MADISON, WI  
DANE COUNTY

ABYGROUPS  
200 S FRONTAGE RC STE 330  
BURR RIDGE, IL 60527  
(847) 208-5656

CONSULTANTS

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SHEET TITLE

**GRADING PLAN  
EAST**

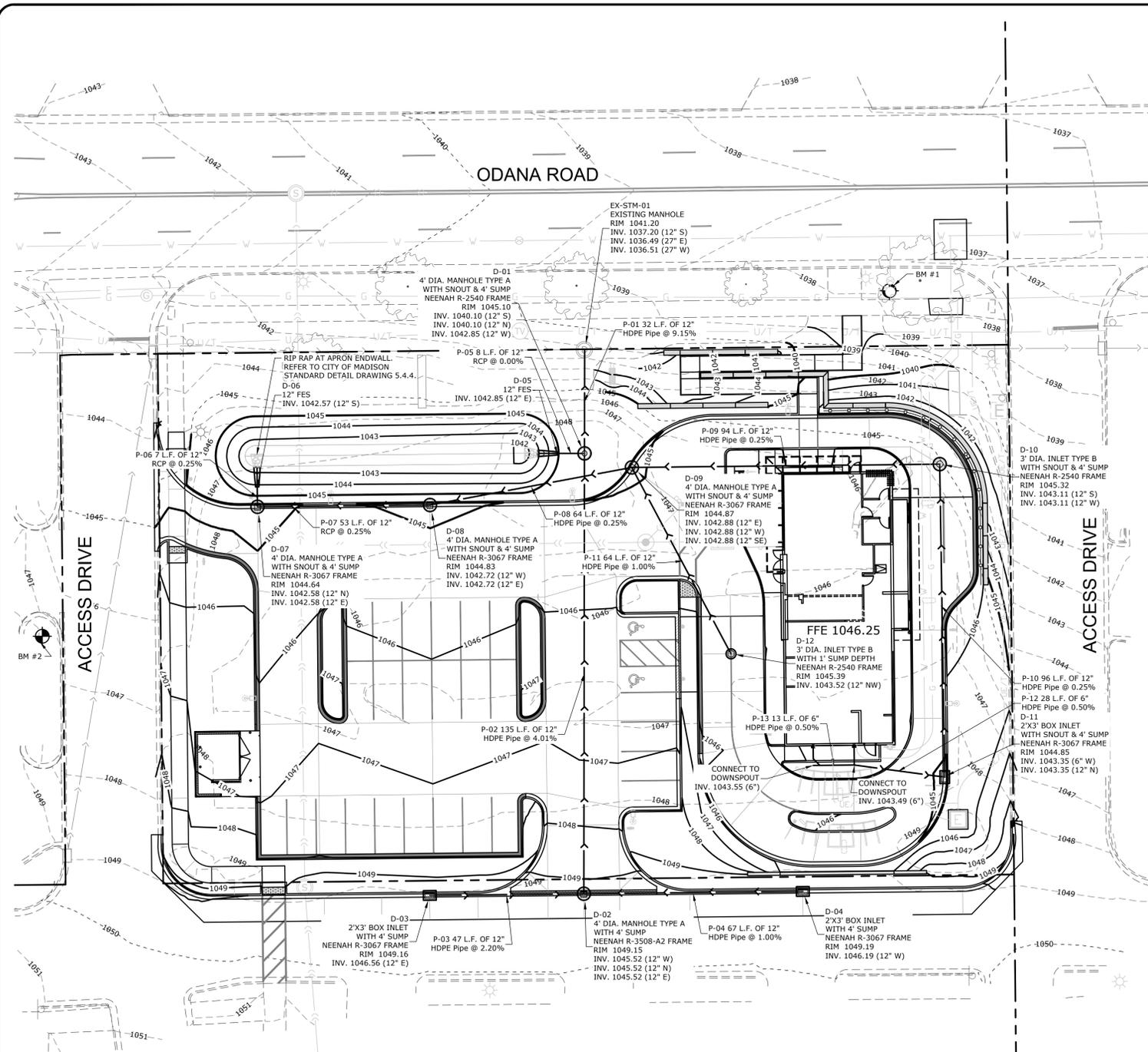
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**19055**

**C06**

BENCHMARKS (NAVD88 DATUM)	
BENCHMARK 1 X CUT ON SW BOLT OF FIRE HYDRANT LOCATED APPROXIMATELY 30' SOUTH OF CL OF ODANA ROAD AND 50' WEST OF THE CL OF THE ACCESS DRIVEWAY TO THE EAST OF THE SITE	1039.69
BENCHMARK 2 BOX CUT ON LIGHT POLE BASE LOCATED ON BURGER KING LOT, LOCATED APPROXIMATELY 22' WEST OF THE CL OF THE ACCESS DRIVEWAY TO THE WEST OF THE SITE	1049.38



### LEGEND

- PROPERTY LINE
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE BREAK LINE
- PROPOSED CONTOUR LINE
- EXISTING CONTOUR LINE
- PROPOSED WATER SERVICE
- PROPOSED SANITARY SEWER
- PROPOSED GAS MAIN
- PROPOSED UNDERGROUND ELECTRIC SERVICE
- PROPOSED TELEPHONE SERVICE
- EXISTING MANHOLE OR CATCH BASIN
- PROPOSED CATCH BASIN OR MANHOLE
- PROPOSED CLEANOUT
- 1.6% DIRECTION OF SHEET FLOW



DELIVERY OF NEENAH STRUCTURES MAY HAVE LONG LEAD TIMES. EQUIVALENT STRUCTURES MAY BE SUBSTITUTED FOR ANY OF THE SPECIFIED NEENAH FRAMES IF APPROVED BY ENGINEER. CONTRACTOR TO SUBMIT REQUESTED SUBSTITUTION TO ENGINEER FOR APPROVAL.

REFER TO SHEET C12 - DETAILS FOR PRODUCT INSTALLATION AND SPECIFICATIONS FOR THE SNOOT BY BEST MANAGEMENT PRACTICES, INC.

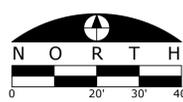
### STORMWATER DETENTION

BOTTOM OF BASIN	1042.00'
TOP OF BASIN	1045.00'
10-YEAR HIGH-WATER LEVEL	1044.00'
10-YEAR STORAGE VOLUME	1,958 CF
100-YEAR HIGH-WATER LEVEL	1044.56'
100-YEAR STORAGE VOLUME	3,018 CF

REFER TO STORMWATER MANAGEMENT REPORT FOR PIPE SIZING CALCULATIONS, DETENTION POND AND RELEASE RATE CALCULATIONS, AND WATER QUALITY CALCULATIONS.

### BENCHMARKS (NAVD88 DATUM)

<b>BENCHMARK 1</b> X CUT ON SW BOLT OF FIRE HYDRANT LOCATED APPROXIMATELY 30' SOUTH OF CL OF ODANA ROAD AND 50' WEST OF THE CL OF THE ACCESS DRIVEWAY TO THE EAST OF THE SITE	1039.69
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SHEET TITLE

**DRAINAGE PLAN**

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PROJECT NUMBER  
SHEET NUMBER

**19055**

**C07**

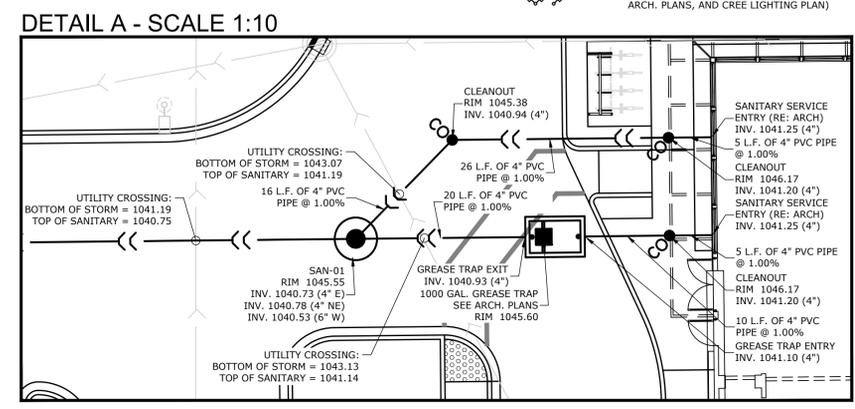
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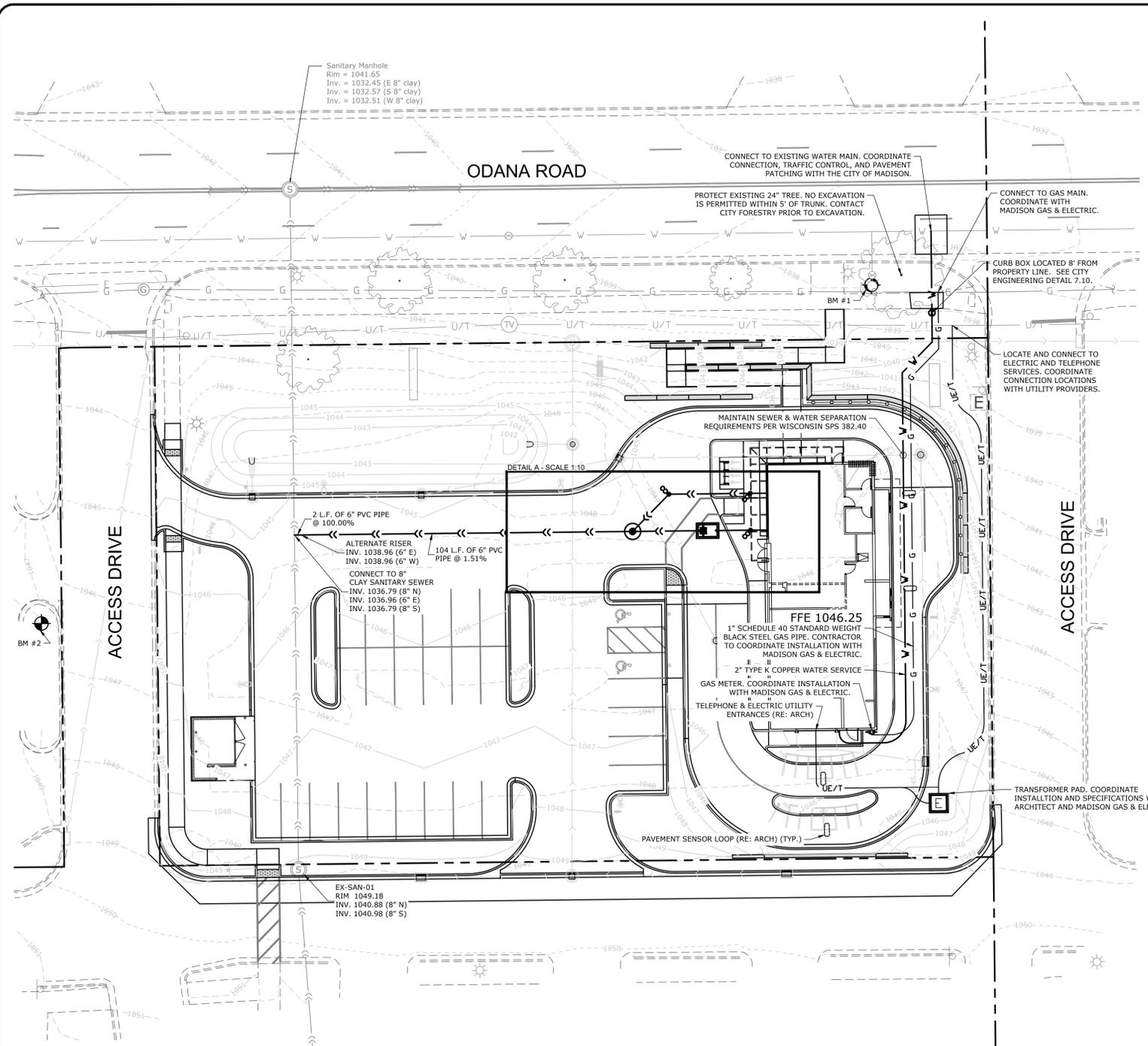
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### LEGEND

	PROPERTY LINE		PROPOSED TRANSFORMER
	EXISTING CURB AND GUTTER		EXISTING FIRE HYDRANT ASSEMBLY
	PROPOSED ACCEPTING CURB AND GUTTER		EXISTING WATER VALVE
	EXISTING WATER MAIN		PROPOSED WATER SERVICE CURB BOX
	PROPOSED WATER SERVICE		EXISTING MANHOLE OR CATCH BASIN
	EXISTING SANITARY SEWER		PROPOSED SANITARY MANHOLE
	PROPOSED SANITARY SEWER		PROPOSED SANITARY CLEANOUT
	EXISTING STORM SEWER		PROPOSED GREASE TRAP (RE: ARCH. PLANS)
	PROPOSED STORM SEWER		EXISTING GAS VALVE TO REMAIN
	EXISTING GAS MAIN		EXISTING LIGHT POLE TO REMAIN
	PROPOSED GAS MAIN		EXISTING LIGHT POLE TO BE REMOVED
	EXISTING UNDERGROUND ELECTRIC SERVICE		EXISTING CABLE PEDESTAL TO REMAIN
	PROPOSED UNDERGROUND ELECTRIC & TELEPHONE SERVICE		EXISTING ELECTRICAL PEDESTAL TO REMAIN
	EXISTING UNDERGROUND TELEPHONE SERVICE		EXISTING SANITARY SEWER TO REMAIN
	PROPOSED UNDERGROUND TELEPHONE SERVICE		PROPOSED LIGHT POLE (SEE DETAILS, ARCH. PLANS, AND CREE LIGHTING PLAN)
	EXISTING OVERHEAD UTILITY LINES		

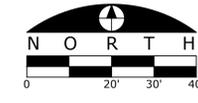


- ### UTILITY NOTES
- THE CONTRACTOR SHALL PROVIDE PROPER SAFETY DEVICES IN ACCORDANCE WITH OSHA STANDARDS FOR ALL STAFF WORKING IN OPEN TRENCH CONDITIONS. TRENCH BOXES AND OTHER SHORING SHALL BE REQUIRED FOR ALL TRENCH WORK, IN THE RIGHT-OF-WAY, AND ON PRIVATE PROPERTY, WHILE THE SITE IS UNDER CONSTRUCTION.
  - ALL PRIVATE WATER MAINS CONSTRUCTED ON THE PROPERTY ARE TO BE CONSTRUCTED WITH MATERIALS THAT FOLLOW THE STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL REQUIREMENTS FOR PIPE MATERIAL AND OTHER WATER MAIN APPURTENANCES PRIOR TO THE START OF CONSTRUCTION.
  - EXISTING UTILITY INFORMATION IS SHOWN FROM SURVEY WORK BY OTHERS, 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.
  - CONTACT ALL PUBLIC AND PRIVATE UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION. COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
  - 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 CONTROL PRIOR TO PROCEEDING WITH WORK.
  - REFER TO BUILDING PLANS FOR EXACT LOCATIONS OF NEW UTILITY ENTRIES.
  - CONTRACTOR SHALL SET ALL CLEANOUT, CASTINGS, AND VALVE BOXES TO FINISHED GRADE.
  - COORDINATE INSTALLATION OF THE WATER SERVICE WITH THE CITY OF MADISON. WATER SERVICE SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF MADISON, WI STANDARDS.

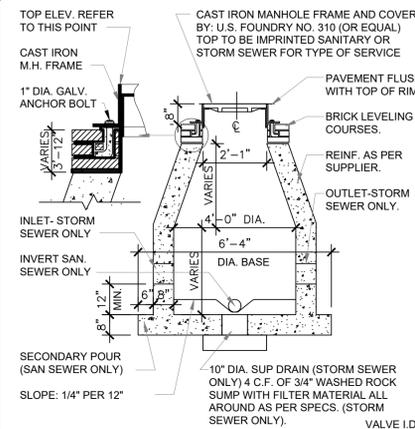


### BENCHMARKS (NAVD88 DATUM)

BENCHMARK	DESCRIPTION	ELEVATION
BENCHMARK 1	X CUT ON SW BOLT OF FIRE HYDRANT LOCATED APPROXIMATELY 30' SOUTH OF CL OF ODANA ROAD AND 50' WEST OF THE CL OF THE ACCESS DRIVEWAY TO THE EAST OF THE SITE	1039.69
BENCHMARK 2	BOX CUT ON LIGHT POLE BASE LOCATED ON BURGER KING LOT, LOCATED APPROXIMATELY 22' WEST OF THE CL OF THE ACCESS DRIVEWAY TO THE WEST OF THE SITE	1049.38



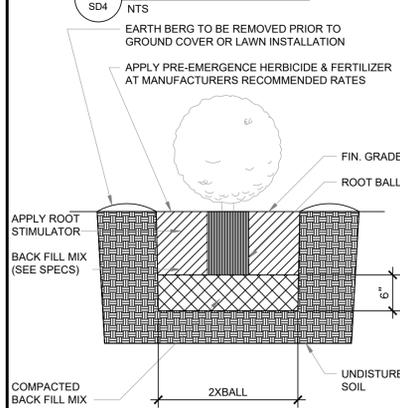




**A** MANHOLE  
SD4 NTS

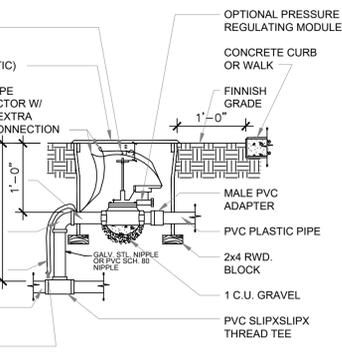
1. THE ABOVE DIAGRAM ILLUSTRATES A TYPICAL BENCHING FOR THE PLACEMENT OF A FILL ON A SLOPING SURFACE.
2. THE DIAGRAM SHOWS THAT BEFORE FILL IS PLACED, THE FIRST STEP IS CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8 FEET ("A" - ABOUT 3/4 THE WIDTH OF THE USUAL D-8 BULLDOZER BLADE). SUCCESSIVE LAYERS OF FILL ARE THEN PLACED. BEFORE THE FINAL LAYER IS PLACED, THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED.
3. SELECT FILL MATERIAL SHOULD BE PLACED IN 8 INCH LIFTS AND COMPACTED TO THE SPECIFIED DENSITY ("B").

**G** SLOPE BENCHING  
SD4 NTS

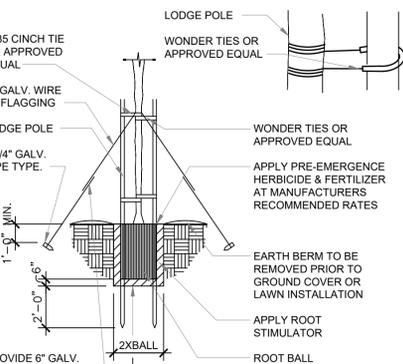


**M** SHRUB PLANTING  
SD4 NTS

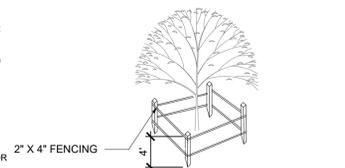
- TREE PROTECTION NOTES:**
1. DURING CONSTRUCTION PROTECTIVE BARRIERS SHALL BE PLACED BY THE SITE CONTRACTOR TO PREVENT DESTRUCTION OF TREES WHICH ARE DESIGNATED TO REMAIN. PROTECTIVE BARRIERS SHALL BE ERRECTED PRIOR TO CONSTRUCTION OF ANY KIND ON THE SITE. BARRIERS
  2. SHALL CONSIST OF PROTECTIVE POSTS TWO (2) INCHES BY (4) FOUR INCHES OR LARGER. WOODEN POSTS PLANTED IN SUFFICIENT DEPTH TO BE STABLE WITH AT LEAST FOUR (4) FEET OF POST VISIBLE ABOVE THE GROUND. POSTS SHALL BE PLACED NO CLOSER THAN FIVE (5) FEET TO THE TRUNK UNLESS PROPOSED PAVING CONSTRUCTION WILL NOT AFFECT. REFER TO TREE PROTECTION BARRIER DETAIL. EACH SECTION SHALL BE LINKED TOGETHER WITH LUMBER, EROSION FABRIC, NET OR PLASTIC FENCE MATERIAL.
  3. PROPOSED GRADES AROUND TREES TO REMAIN SHALL BE MAINTAINED TO WITHIN (4) FOUR INCHES OF THE EXISTING GRADE.
  4. CONTRACTOR SHALL NOTIFY ZONING DIRECTOR UPON COMPLETION OF THE TREE PROTECTION BARRIERS AND PRIOR TO REMOVAL OF EXISTING TREES FOR A SITE INSPECTION. ZONING DIRECTOR SHALL CONDUCT A FINAL INSPECTION ONCE THE EXISTING TREES ARE REMOVED THE 1 YEAR MAINTENANCE PERIOD SHALL BEGIN AFTER FINAL INSPECTION APPROVAL.
  5. THE CONTRACTOR SHALL FOLLOW TREE REMOVAL, TREE PROTECTION AND GENERAL PLANTING REQUIREMENTS AS DEFINED BY LOCAL JURISDICTION.
  6. PROTECTIVE BARRIER'S SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS CONSTRUCTION IS COMPLETE AND ALL EQUIPMENT IS REMOVED FROM SITE
  7. BARRIERS SHALL BE PLACED AT THE TREE CANOPY LINE EXCEPT ADJACENT TO THE PROPOSED CONSTRUCTION AREA WHERE IT MAY BE AT ONE HALF OF THE CANOPY DISTANCE ON ONE SIDE ONLY.
  8. WHERE PERMITTED BY LOCAL JURISDICTION, CONTRACTOR MAY USE ORANGE PLASTIC SAFETY FENCING IN LIE OF WOOD FENCING.



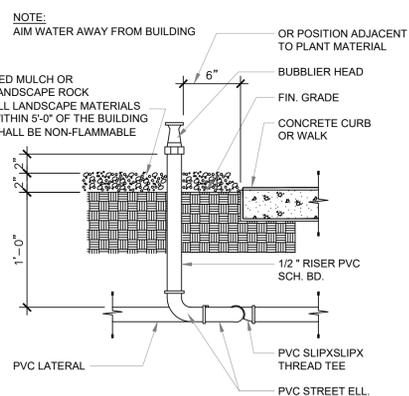
**H** REMOTE CONTROL VALVE  
SD4 NTS



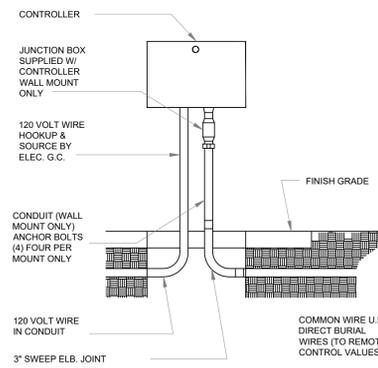
**N** TREE STAKING  
SD4 NTS



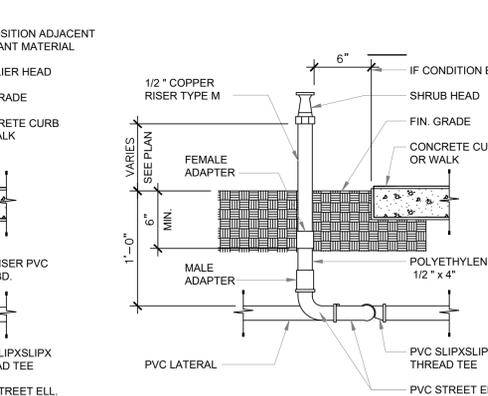
**S** TREE BARRIERS DETAIL  
SD4 NTS



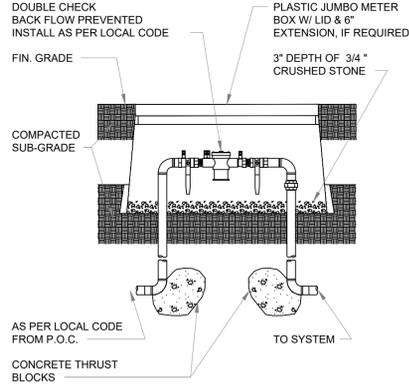
**O** BUBBLER HEAD  
SD4 NTS



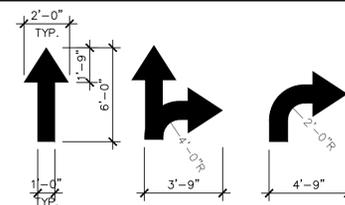
**T** IRRIGATION CONTROLLER DETAIL  
SD4 NTS



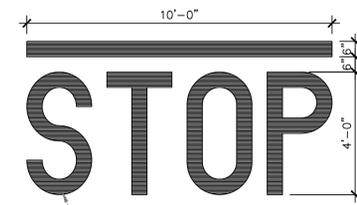
**P** SHRUB HEAD RISER  
SD4 NTS



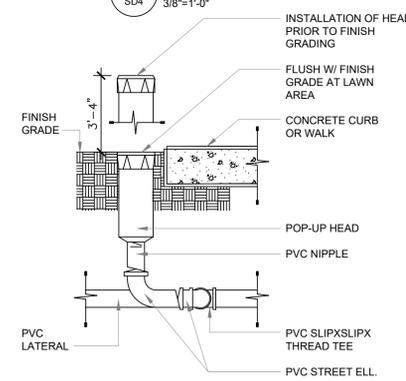
**U** BACK FLOW PREVENTER  
SD4 NTS



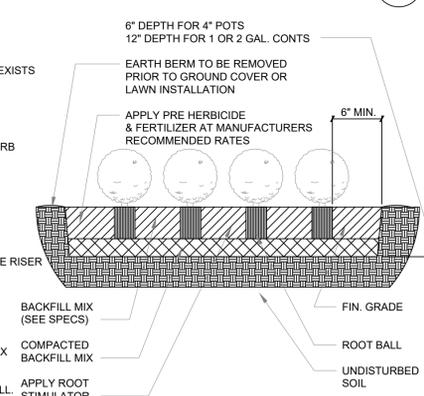
**E** PAINTED TRAFFIC ARROWS  
SD4 NTS



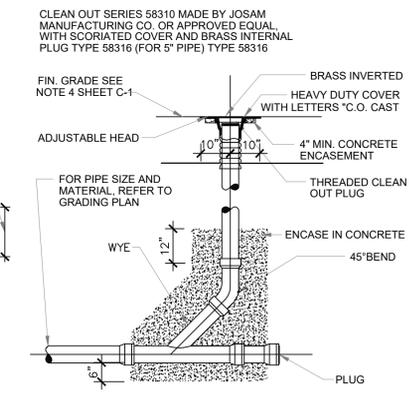
**F** PAINTED STOP SIGN  
SD4 3/8\"=1'-0\"



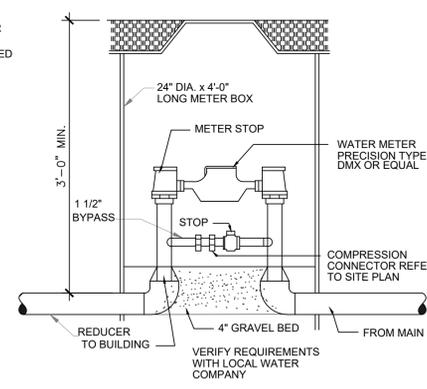
**L** POP-UP LAWN SHRUB HEAD  
SD4 NTS



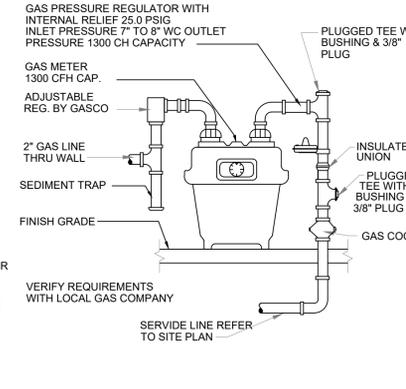
**Q** GROUND COVER PLANTING  
SD4 NTS



**R** SANITARY CLEANOUT  
SD4 NTS



**V** WATER METER  
SD4 NTS



**W** GAS METER & REGULATOR  
SD4 NTS

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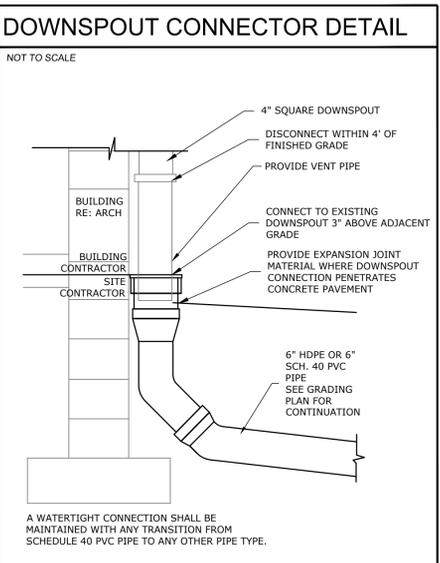
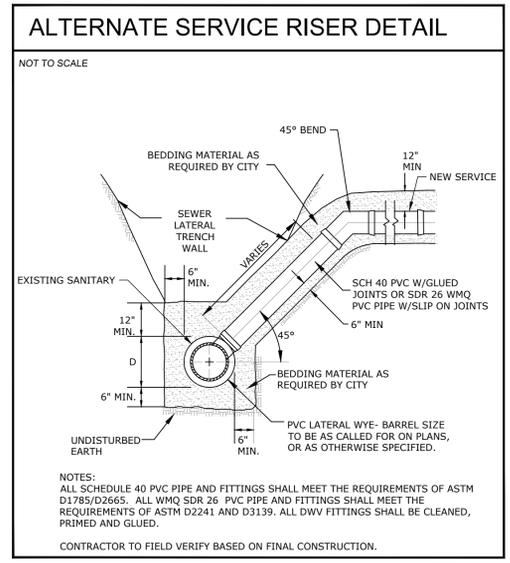
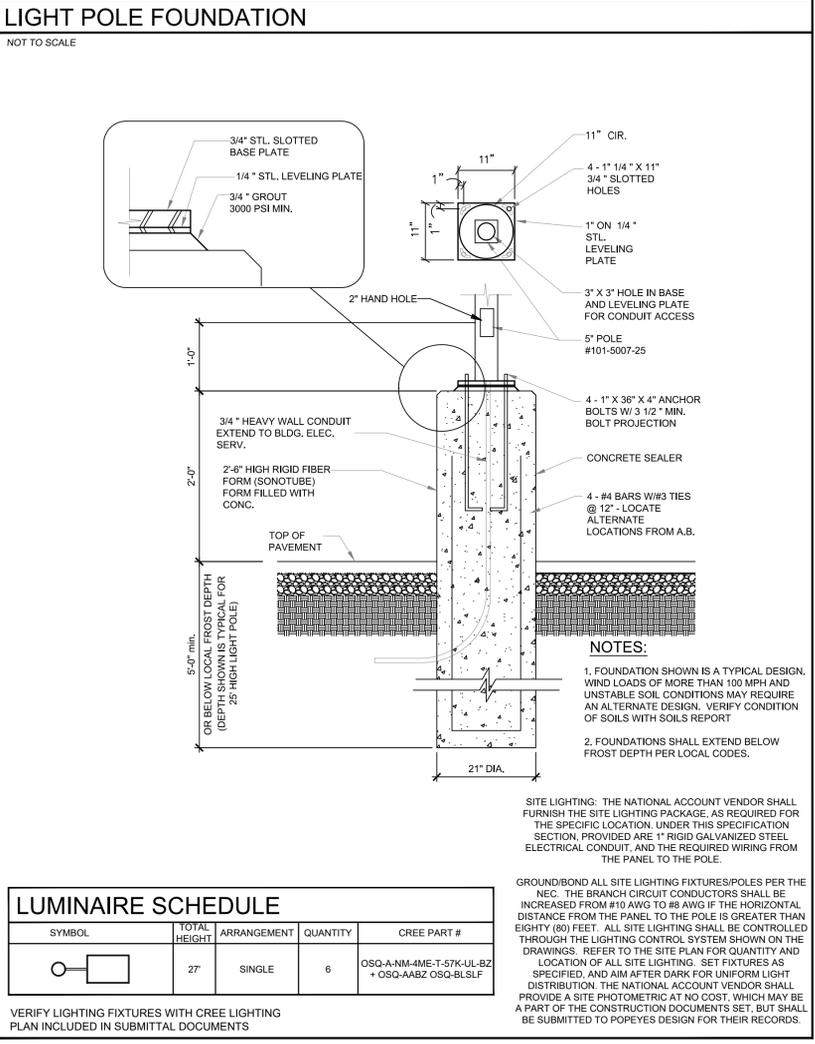
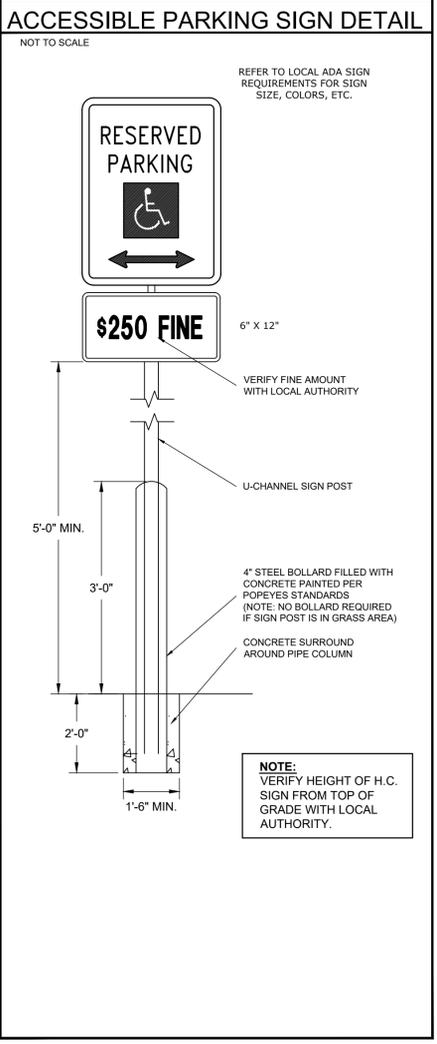
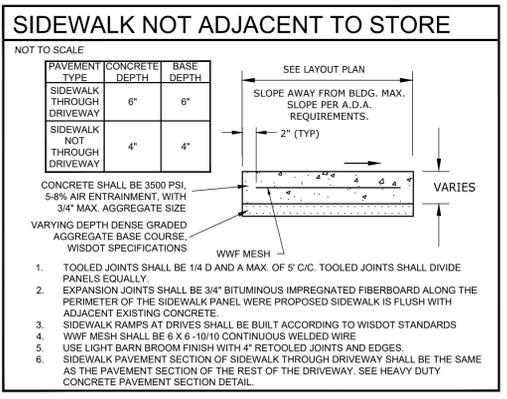
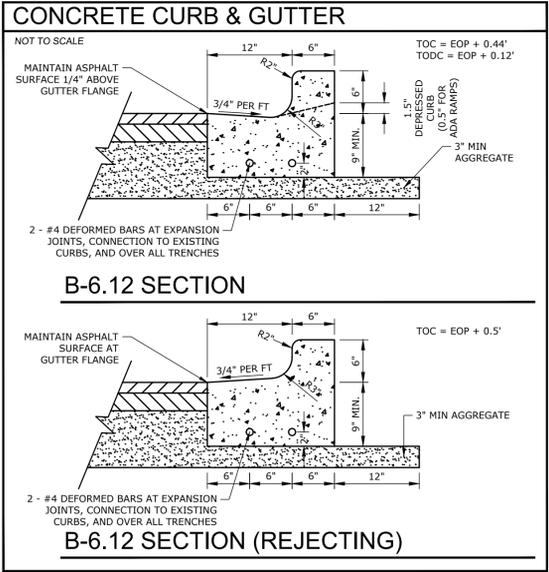
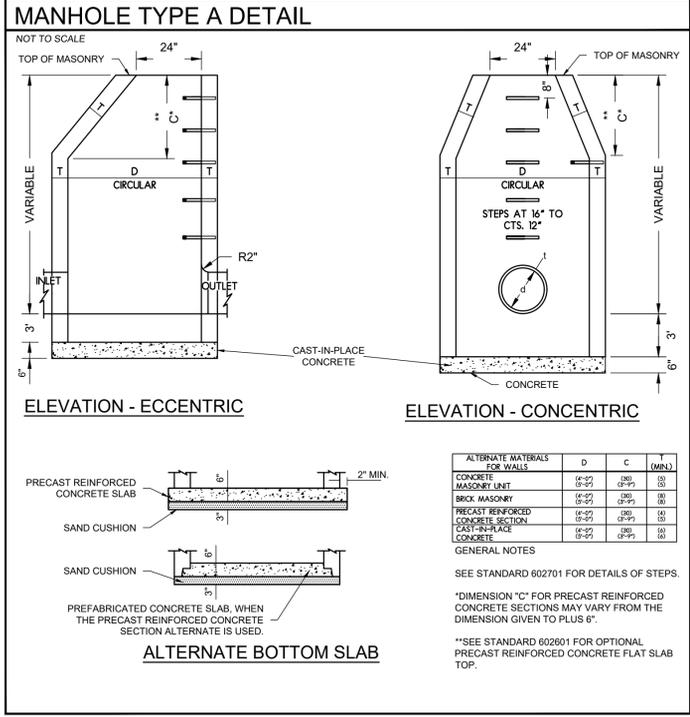
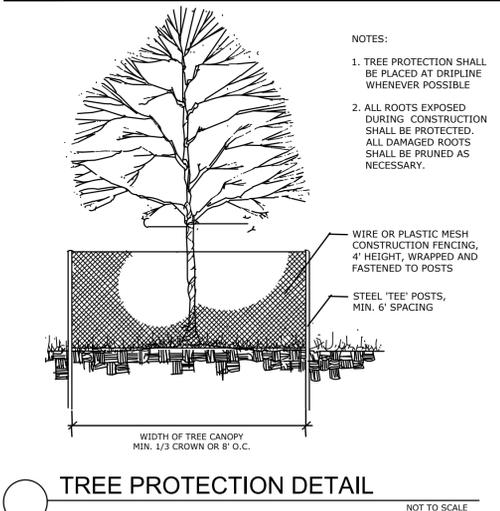
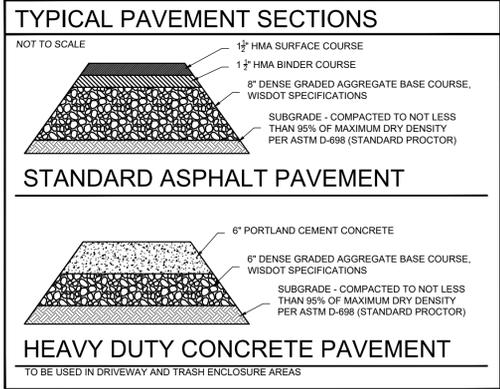
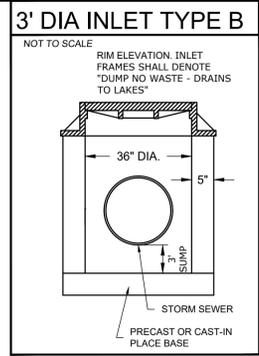
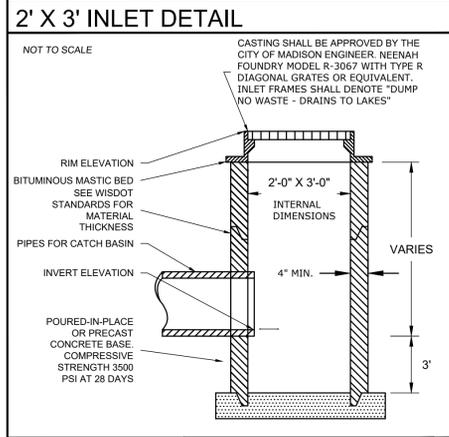
PROJECT NAME  
OWNER'S NAME  
**POPEYES MADISON, WI**  
6831 ODANA RD  
MADISON, WI  
DANE COUNTY  
ABYGROUPS  
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SHEET TITLE  
**POPEYES' DETAILS**  
DRAWN: KG  
CHECKED: LND  
PM: RCS

PROJECT NUMBER  
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**C10**



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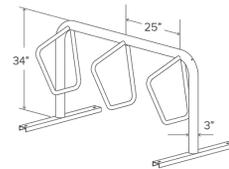
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**DERO S4 CAMPUS BICYCLE RACK**



**Submittal Sheet**



**CAPACITY** 3-11 Bikes

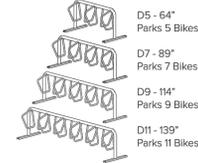
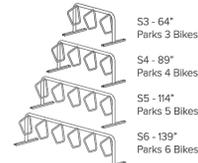
**MATERIALS** Centerbeam: 3" OD 7 gauge tube  
Arms: 1.25" OD 11 gauge tube  
All welds to be continuous MIG welds

**FINISHES**

- Galvanized**  
An after fabrication hot dipped galvanized finish is our standard option.
- Powder Coat**  
Our powder coat finish assures a high level of adhesion and durability by following these steps:  
1. Sandblast  
2. Epoxy primer electrostatically applied  
3. Final thick TGIC polyester powder coat
- Stainless**  
Stainless Steel: 304 grade stainless steel material finished in either a high polished shine or a satin finish.

**MOUNT OPTIONS**

- Surface**  
Foot Mount has 34" x 3" channel feet and can be left freestanding or anchored to the ground. Tamper-resistant fasteners available upon request.
- In-Ground**  
In-ground mount is embedded into concrete base. Specify in-ground mount for this option



**REFER TO THE CITY OF MADISON, WI BIKE RACK REQUIREMENTS FOR BICYCLE PARKING SPACE SIZE, DESIGN AND INSTALLATION REQUIREMENTS.**

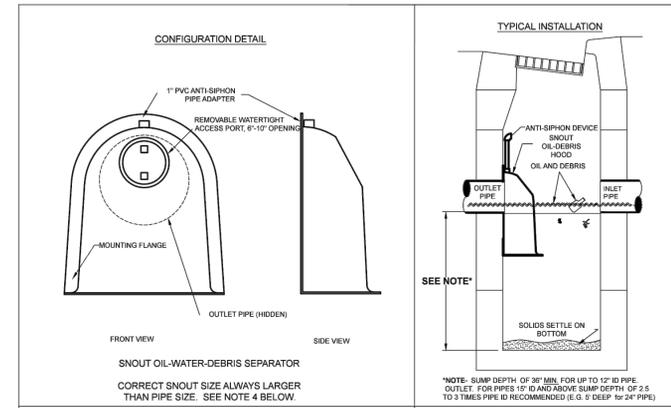
**THE SARIS CITY RACK, MADRAX SPARTAN RACK, MADRAX SENTRY RACK, AND MADRAX SHARK RACK ARE ALSO ACCEPTABLE (MINIMUM FOUR SPACES).**

**ADJUSTMENTS TO THE BICYCLE PARKING AREA MAY BE REQUIRED TO MEET MINIMUM REQUIREMENTS IF A RACK OTHER THAN THE DERO CAMPUS RACK IS SELECTED. ADJUSTMENTS ARE TO BE MADE BY THE CONTRACTOR.**

**CONTACT ARTHUR ROSS, CITY OF MADISON, WI PEDESTRIAN-BICYCLE COORDINATOR AT (608) 266-6225 FOR QUESTIONS.**

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**SNOUT BY BEST MANAGEMENT PRACTICES, INC. SPECIFICATIONS**

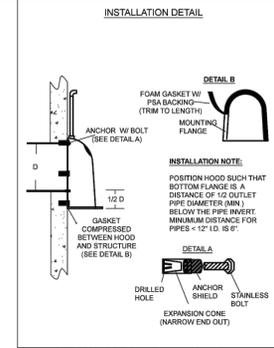


**SNOUT OIL-WATER-DEBRIS SEPARATOR**  
**CORRECT SNOUT SIZE ALWAYS LARGER THAN PIPE SIZE. SEE NOTE 4 BELOW.**

**NOTES:**

- ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC. 9 MATHEWS DRIVE, UNIT A1-A2, EAST HADDAM, CT 06423. TOLL FREE: (800) 504-8008 OR (888) 434-0277. FAX: (877) 434-3197. WEB SITE: www.bmpic.com OR PRE-APPROVED EQUAL.
- ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
- ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT PIPE AND ELBOW AS DRAWN. (SEE CONFIGURATION DETAIL).
- THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION. NOTE: THE CORRECT SNOUT SIZE WILL ALWAYS BE LARGER THAN NOMINAL PIPE SIZE (E.G. 12" ID PIPE REQS. 18 SERIES SNOUT OR LARGER).
- THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A MINIMUM DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 4" FOR PIPES <12" I.D.
- THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND PIPE SHALL BE FINISHED FLUSH TO WALL.
- THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 12" ACCORDING TO STRUCTURE CONFIGURATION.
- ALL STRUCTURE JOINTS SHALL BE WATERTIGHT.
- THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL).
- INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE:  
A. INSTALLATION INSTRUCTIONS  
B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER  
C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING  
D. 3/8" STAINLESS STEEL BOLTS  
E. ANCHOR SHIELDS

US Patent # 6126817, 7851294, 7857966, 8512556  
Canada Patent # 2285146, 2690156, 2690156 others pending



**HOOD SPECIFICATION FOR CATCH BASINS AND WATER QUALITY STRUCTURES**

DESCRIPTION	DATE	SCALE
OIL- DEBRIS HOOD SPECIFICATION AND INSTALLATION (TYPICAL)	01/08/20	NONE
		DRAWING NUMBER SP-SN

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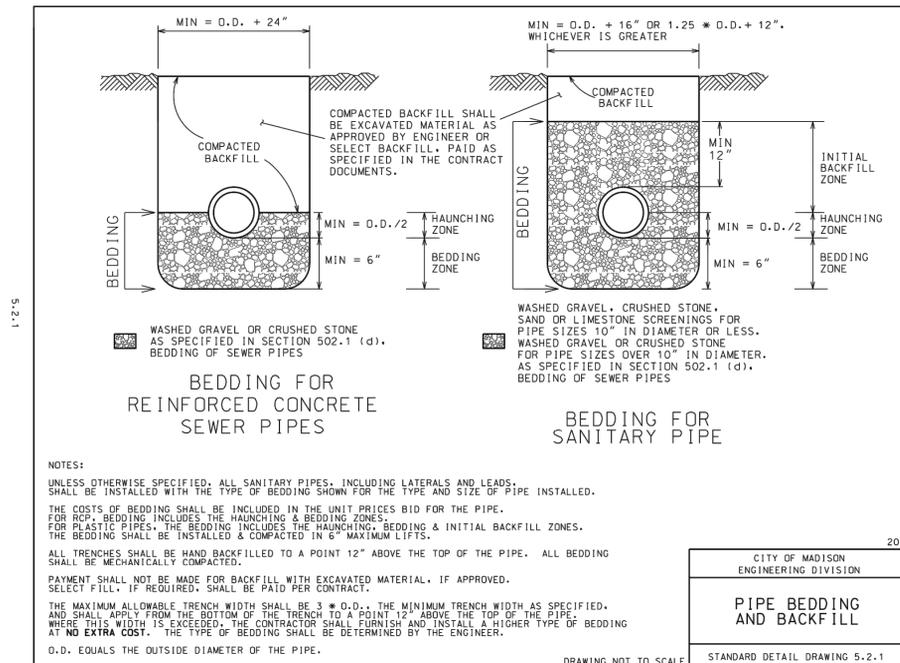
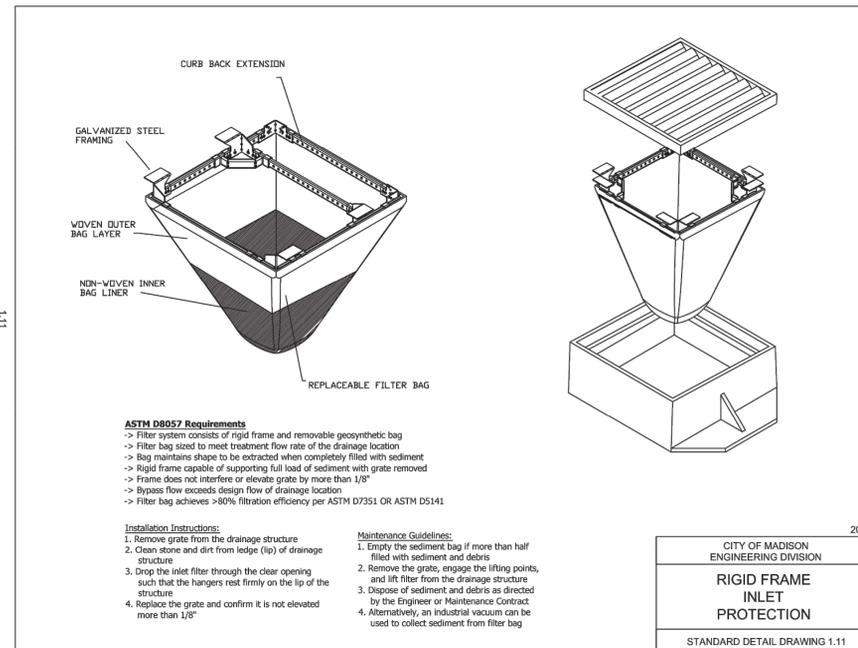
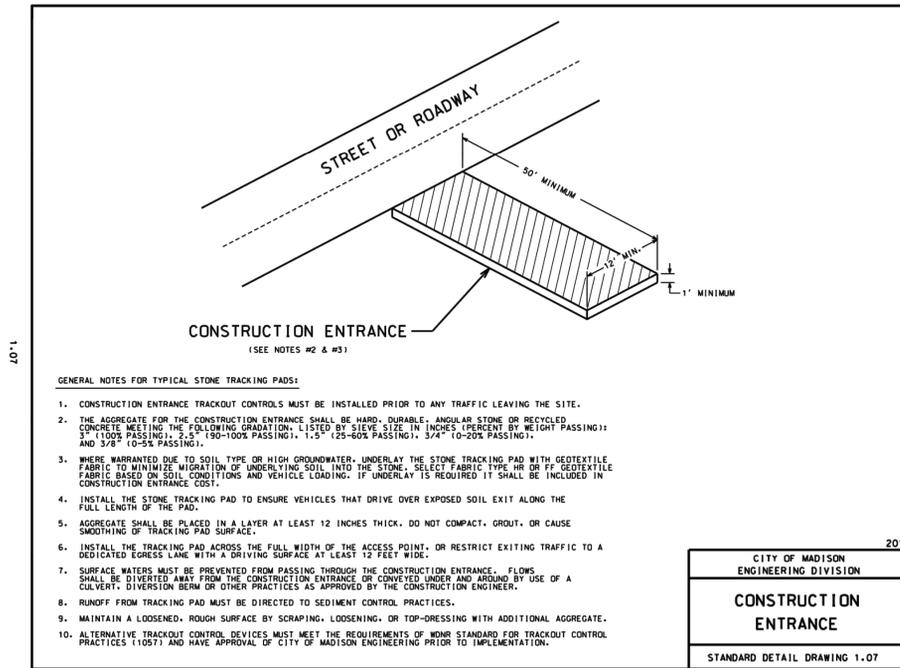
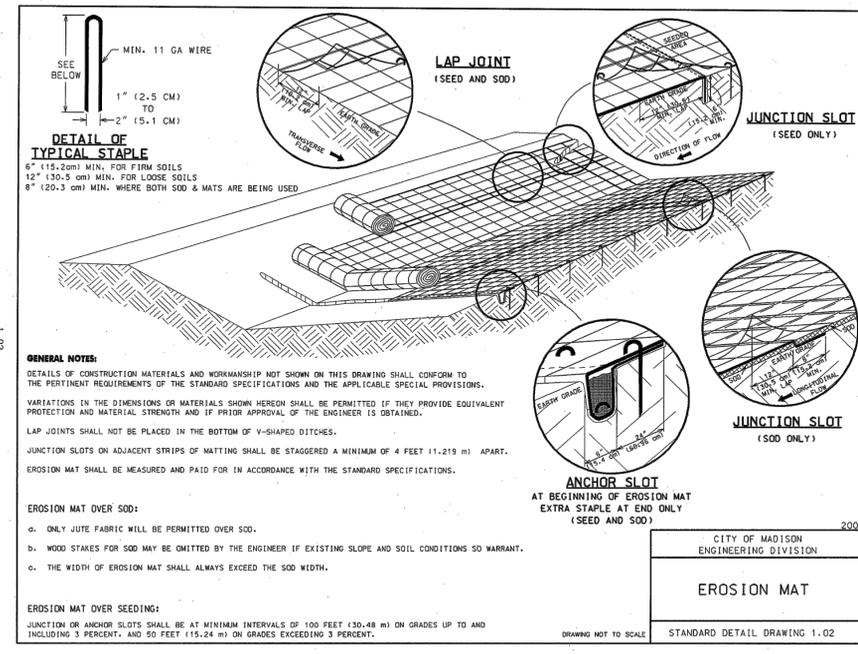
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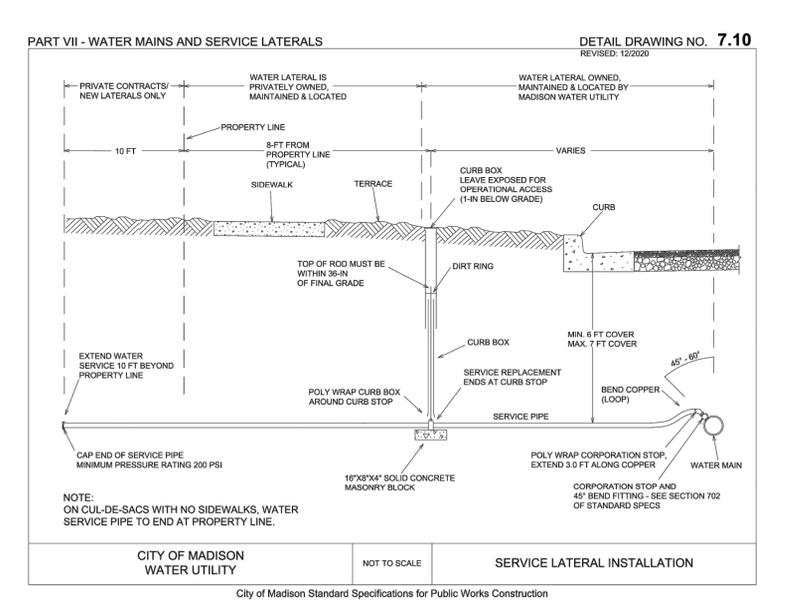
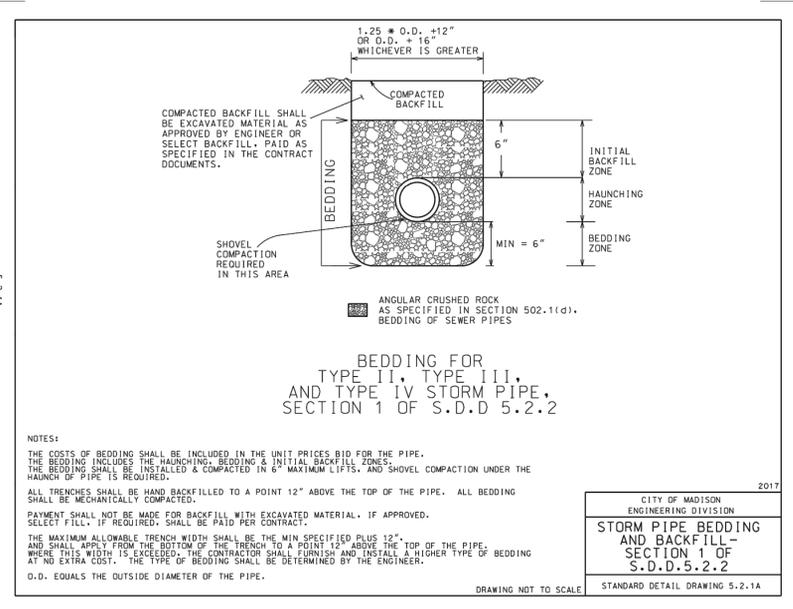
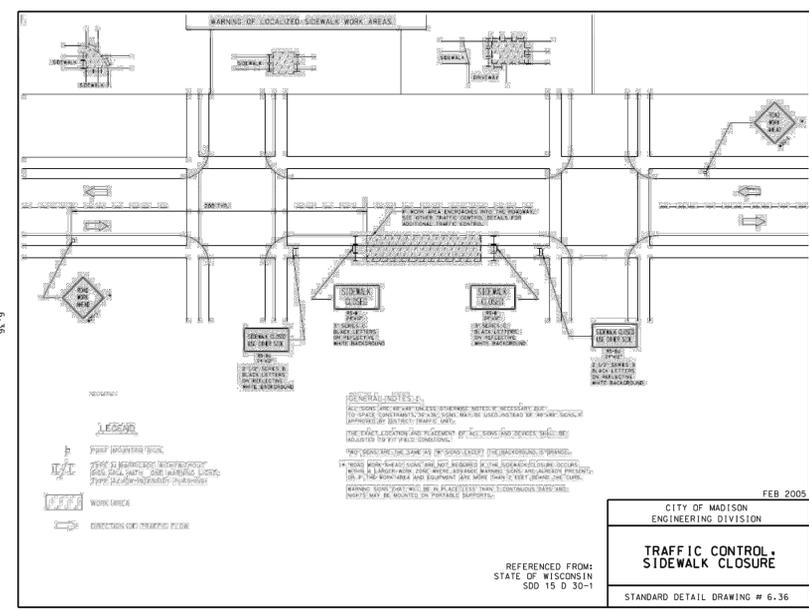
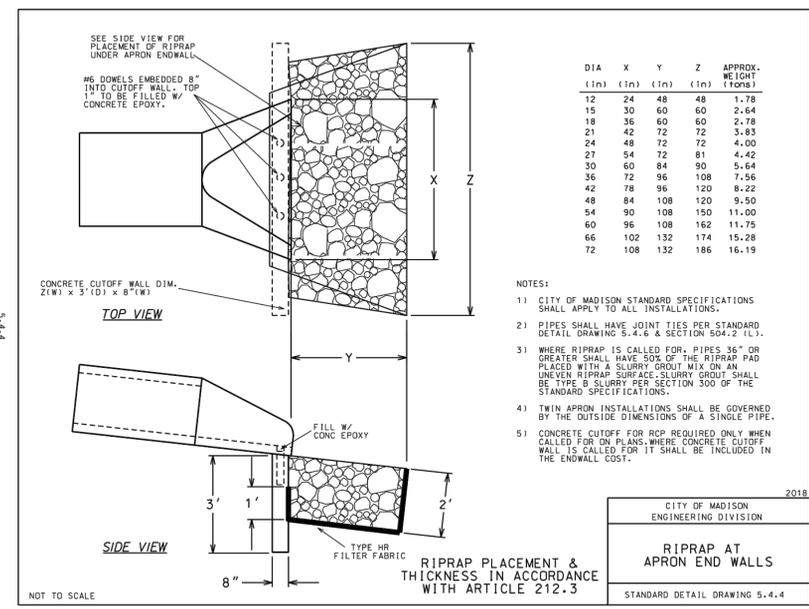
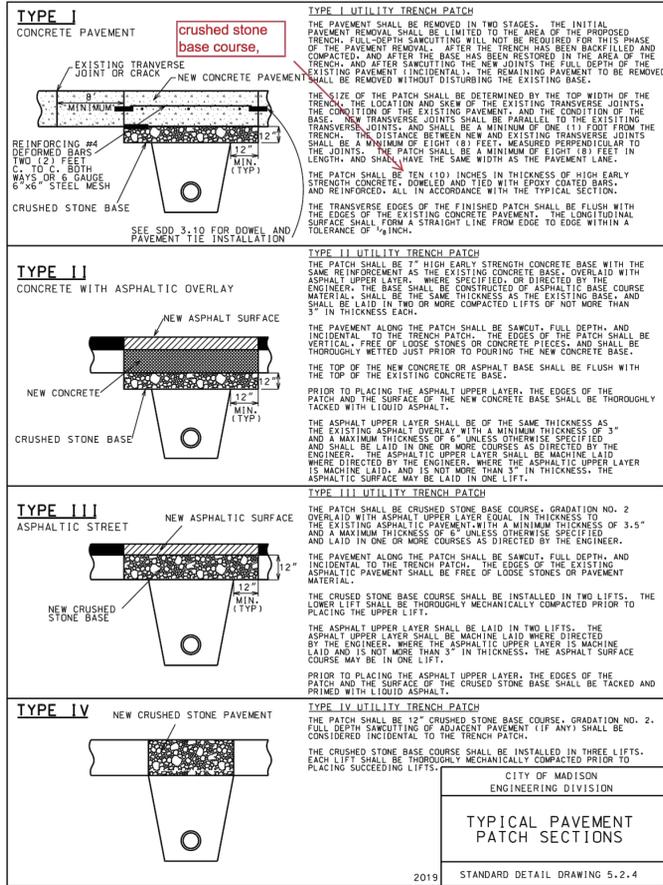
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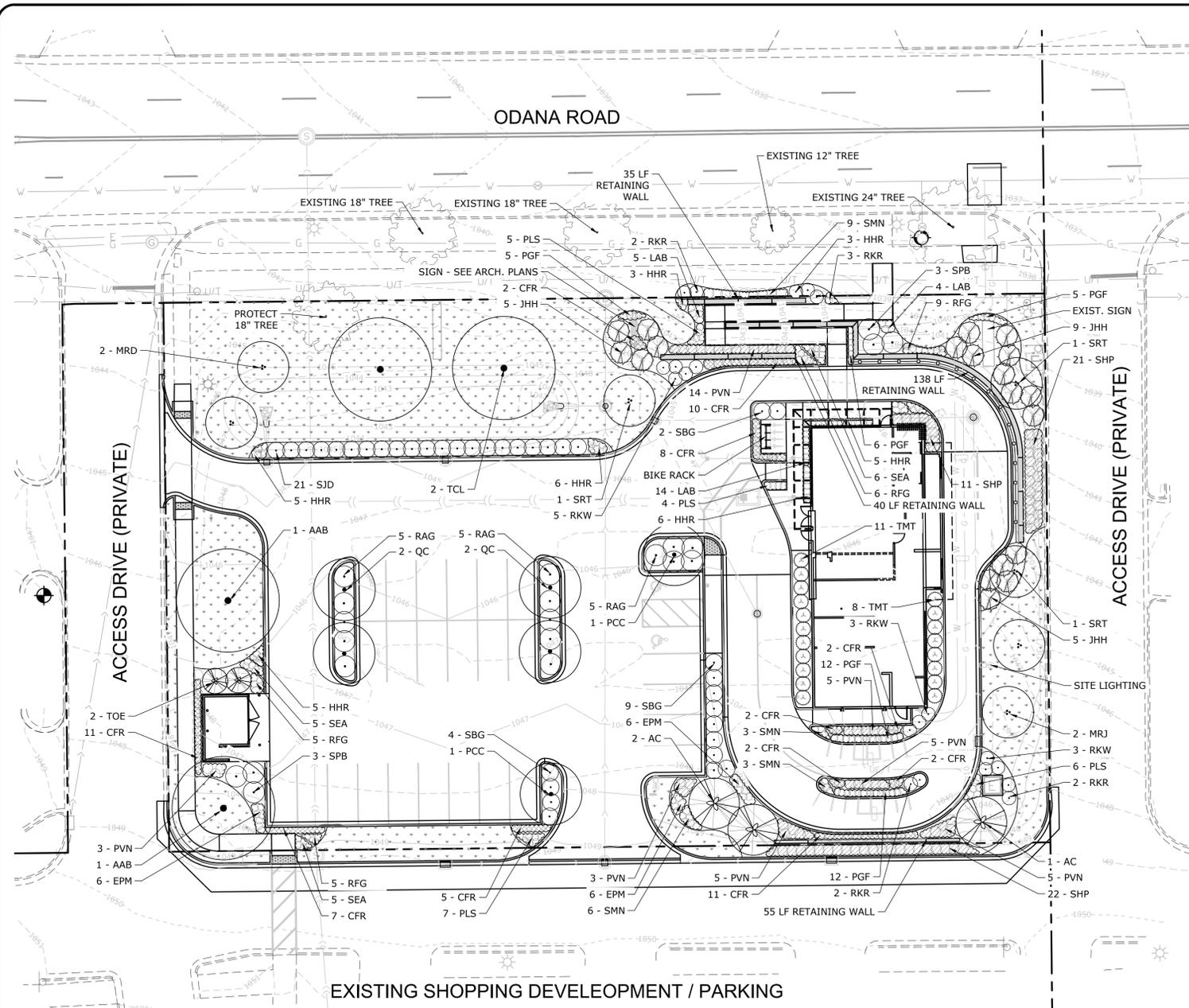
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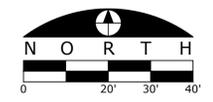
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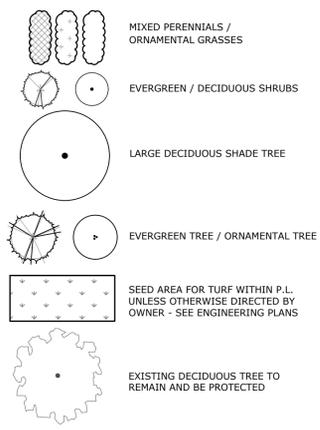


**PLANT LIST**

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
AAB	2	Acer x 'Autumn Brilliance' AUTUMN BRILLIANCE MAPLE	2.5"	
AC	3	Abies concolor WHITE FIR	6'	EVERGREEN
MRD	2	Malus x 'Ruby Daze' RUBY DAZE CRABAPPLE	7'	MULTI-STEMMED
MRJ	2	Malus x 'Red Jewel' RED JEWEL CRABAPPLE	7'	MULTI-STEMMED
PCC	2	Pyrus calleryana x 'Chanticleer' CHANTICLEER HERITAGE HYBRID PEAR	2.5"	NON-FRUITING HYBRID
QC	4	Quercus x 'Crimschmidt' CRIMSON SPIRE OAK	2.5"	COLUMNAR / HYBRID
SRT	3	Syringa reticulata JAPANESE TREE LILAC	7'	MULTI-STEMMED
TCL	2	Tilia cordata LITTLE LEAF LINDEN	2"	
TOE	2	Thuja occidentalis 'Emerald' EMERALD GREEN ARBORVITAE	5'	EVERGREEN - UPRIGHT
JHH	19	Juniperus horizontalis 'Hughes' HUGHES SPREADING JUNIPER	5 GAL	EVERGREEN
RAG	15	Rhus aromatica 'Gro Lo' GROW LOW FRAGRANT SUMAC	5 GAL	
RKR	9	Rosa x 'Radrazz' KNOCK OUT RED ROSE	5 GAL	HYBRID - REBLOOMING
RKW	11	Rosa x 'Radwhite' KNOCK OUT WHITE ROSE	5 GAL	HYBRID - REBLOOMING
SBG	15	Spiraea betulifolia 'Glow Girl' GLOW GIRL TOR SPIREA	24"	
SJD	21	Spiraea japonica 'Galen' GALEN DOUBLE-PLAY ARTISAN SPIREA	24"	
SPB	6	Syringa patula x 'Bloomingar' DWARF REBLOOMING KOREAN LILAC	24"	
TMT	19	Taxus media x 'Tauntonii' TAUNTON JAPANESE YEW	24"	EVERGREEN
CFR	62	Calamagrostis acutiflora 'Karl Forster' FEATHER REED GRASS	GAL	3'-0" O.C. - ORN. GRASS
EPM	18	Echinacea purpurea 'Magnus' PURPLE CONEFLOWER	GAL	2'-0" O.C. - PERENNIAL
HHR	33	Hemerocallis 'Happy Returns' HAPPY RETURNS DAYLILY	GAL	2'-0" O.C. - PERENNIAL
LAB	23	Lavandula angustifolia 'Balavurulu' BALAVURULU SUPER BLUE LAVANDER	GAL	2'-0" O.C. - PERENNIAL
PGF	40	Phlox x glaberrima 'Forever Pink' FOREVER PINK HYBRID PHLOX	GAL	2'-0" O.C. - PERENNIAL
PLS	22	Perovskia atriplicifolia 'Little Sprite' LITTLE SPRITE RUSSIAN SAGE	GAL	2'-0" O.C. - PERENNIAL
PVN	40	Panicum virgatum x 'Apache Rose' APACHE ROSE SWITCH GRASS	GAL	2'-6" O.C. - ORN. GRASS
RFG	25	Rudbeckia fulgida 'Goldsturm' BLACK-EYED SUSAN	GAL	2'-0" O.C. - PERENNIAL
SEA	16	Sedum x 'Autumn Joy' AUTUMN JOY SEDUM	GAL	2'-0" O.C. - PERENNIAL
SMN	21	Salvia nemorosa 'May Night' MAY NIGHT MEADOW SAGE	GAL	2'-0" O.C. - PERENNIAL
SHP	54	Sporobolus heterolepis PRAIRIE DROPSSEED	GAL	2'-6" O.C. - ORN. GRASS



**LEGEND**

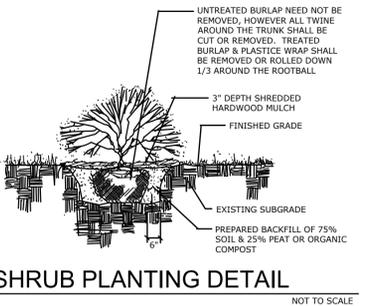
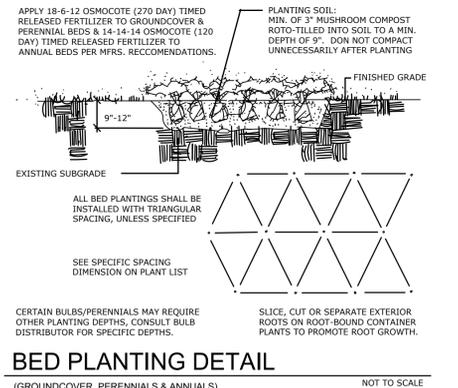
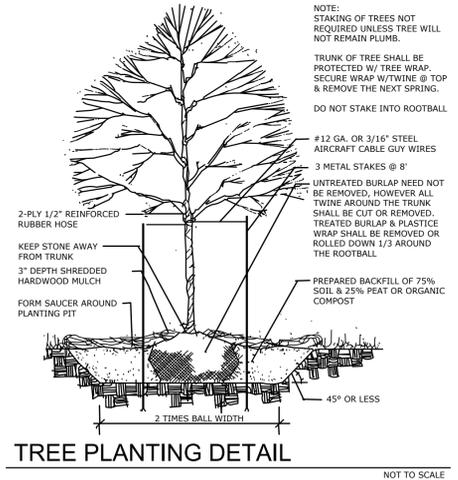


**ZONING DATA**

CATEGORY	AREA/QUANTITY	REQUIREMENT	PROVISION
DEVELOPED AREA LANDSCAPE	23,973 S.F. (0.55 ACRE) DEVELOPED AREA	400 POINTS - (5 POINTS PER 300 S.F. DEVELOPED AREA)	538 POINTS - TREES, SHRUBS, PERENNIALS & GRASSES
FRONTAGE LANDSCAPE	261 L.F. - ODANA RD.	9 TREES + 45 SHRUBS (1 TREE + 5 SHRUBS / 30 L.F. FRONTAGE)	9 TREES + 48 SHRUBS (2 SHADE TREES, 4 ORNAMENTAL TREES, 5 EXIST. TREES)
INTERIOR PARKING LOT LANDSCAPING	13,611 S.F. - PARKING LOT	681 S.F. - 5% OF PARKING LOT TO BE INTERIOR LANDSCAPE	861 S.F. - 6% OF PARKING LOT FOR INTERIOR LANDSCAPE AREA
FOUNDATION PLANTINGS	BUILDING FACADES	NO MIN. / MAX QUANTITY - REQUIRED ALONG ALL FACADES OR FOUNDATIONS NOT DIRECTLY ABUTTING SIDEWALK, ETC.	PLANTINGS ALONG ALL FACADES OR FOUNDATIONS NOT DIRECTLY ABUTTING SIDEWALK, ETC.
DISTRICT BOUNDARY SCREENING	N/A - SAME ZONING / USE	N/A - SAME ZONING / USE	N/A - SAME ZONING / USE

**PLANTING NOTES**

- Landscape Contractor (Contractor) shall make a site visit prior to bidding/construction to inspect the current site conditions and review proposed planting plan and related work. Contractor shall report any discrepancies in the field to the Landscape Architect and/or Owner.
- Contractor shall verify locations of all underground utilities prior to beginning construction on his phase of work. Electric, gas, telephone, and cable television can be located by calling J.U.I.E. at '811'. For regional locating, contact 'Digger's Hotline'. Any damage or interruption of services shall be the responsibility of the contractor. Contractor to coordinate all related activities with other trades on the job and shall report any unacceptable job conditions to owner's representative prior to commencing work.
- Contractor is responsible for application and cost of all necessary building permits and code verifications. Submit copies of all documents to owner and landscape architect.
- Contractor shall grade entire site to correct surface irregularities in preparation for sod/seed. Roto-till, disc, drag, harrow or hand rake sub grade in all lawn areas and remove construction debris, foreign matter or stones larger than 2". Grading shall provide slopes which are smooth, continuous, free from depressions or ridges. Level, rake and roll as necessary to an even and true condition and obtain positive drainage in all areas. Finish grades shall meet the approval of owner prior to lawn installation.
- All disturbed areas should be brought to grade with "topsoil" to a depth of 6 inches in areas to be seeded or sodded, and 12 inches for all interior (curbed) landscape islands. All lawn areas to be finished with mulch, straw mulch, seed, sod, etc. or as noted. All lawn areas to be watered until a healthy stand of grass is established. (see seed/sod notes for acceptance details).
- Quantity lists are supplied as a convenience; however, the contractor should verify all quantities. The drawings shall take precedence over the lists.
- Plantings may need to be adjusted in the field to accommodate utilities, easements, drainage ways, downspouts, etc.; however, quantities and sizes shall remain consistent with these plans.
- Size & grading standards of plant material shall conform to the latest addition of ANSI Z60.1 AMERICAN STANDARD OF NURSERY STOCK, by the American Nursery & Landscape Association. Plant material shall be nursery grown and be either balled and burlap or container grown.
- All plant species specified are subject to availability. Material shortages in the landscape industry may require substitutions. All substitutions must be approved by the Landscape Architect and/or Owner.
- Any plant materials with damaged or crooked/distorted leaders, bark abrasion, sun scald, insect damage, etc. are not acceptable and will be rejected by Landscape Architect and/or Owner. Trees with multiple leaders will be rejected unless called for in the plant list as multi-trunk or clump.
- All plant material, especially trees, must be sourced within a fifty (50) mile radius of the subject property construction site.
- Upon inspection and acceptance of all landscape items by Landscape Architect and/or Owner the contractor shall assume maintenance responsibilities for a period of thirty (30) days, for all plant material, to include: watering, cultivating, weeding, pruning, mulching and spraying as necessary to keep plants free of insects and in a healthy, vigorous condition until responsibility is transferred to the owner (see below).
- All plant material shall be guaranteed for one (1) year after acceptance by landscape architect and/or owner. After the first thirty (30) days, the owner shall assume maintenance responsibilities as described (see above). Contractor shall replace without cost to owner any dead or unacceptable plants, as determined by the landscape architect at the end of one (1) year guarantee period. Contractor shall notify immediately, in writing, any concerns related to maintenance practices.
- All planting beds and tree saucers shall be mulched continuous with 3" depth shredded hardwood mulch, see planting details. All deciduous trees (shade / ornamental) that are not located in a planting bed shall be mulched with a 3'-0" diameter circle. Evergreen trees and multi-stemmed ornamental trees shall be mulched to outer-most branches at the time of installation.
- Planting edge delineation at all planting bed lines and tree saucers shall require a minimum 4" depth "vee" shaped cultivated, spaced edge with a vertical face abutting all lawn areas and sloped to inside of planting bed continuous between lawn and mulched areas as indicated on plan.
- Contractor to seed all disturbed lawn areas. Seeded lawn to be a combination of bluegrass, perennial ryegrass and red fescue with the suggested following analysis by weight: 30% rugby Kentucky bluegrass, 20% park Kentucky bluegrass, 20% creeping red fescue, 20% scalds hard fescue, and 10% perennial ryegrass. Seed to be applied at a rate of 4 lbs. per 1,000 s.f.. All seeded lawn areas shall be covered with straw mulch or erosion control netting, consisting of hand or machine application at a rate of 2 ton per acre. Mulch shall be compact enough to reduce erosion of seed and topsoil but loose enough to allow air to circulate. Install per Method 1, Section 25.1, of the Standard Specifications for Road and Bridge Construction.
- All seeded turf areas shall be fertilized at installation with 6-20-20 analysis, at a rate of 6 lbs. per 1,000 s.f.. A second application of 21-7-14 to be applied at rate of 6 lbs. per 1,000 s.f. after the first cutting.
- Acceptance and guarantee notes shall apply to all seeded areas.
- Acceptance of grading and seed shall be by landscape architect and/or owner. Contractor shall assume maintenance responsibilities for a minimum of sixty (60) days or until second cutting, whichever is longer. Maintenance shall include watering, weeding, re-seeding (wash-offs) and other operations necessary to keep lawn in a thriving condition. Upon final acceptance, owner shall assume all maintenance responsibilities. After lawn areas have germinated, areas which fail to show a uniform stand of grass for any reason whatsoever shall be re-seeded repeatedly until all areas are covered with a satisfactory stand of grass. Minimum acceptance of seeded lawn areas may include scattered bare or dead spots, none of which are larger than one (1) square foot and when combined do not exceed 2% of total lawn area.



**ARC DESIGN**  
RESOURCES INC.

5281 ZENITH PARKWAY  
LOVES PARK, IL 61111  
VOICE: (815) 484-4300  
FAX: (815) 484-4303

www.arcdesign.com  
Design Firm License No. 2411-11

PROJECT NAME  
OWNER'S NAME

**POPEYES**  
**MADISON, WI**

6831 ODANA RD  
MADISON, WI  
DANE COUNTY

ABYGROUPS  
200 S FRONTAGE RC STE 330  
BURR RIDGE, IL 60527  
(847) 208-5656

CONSULTANTS

ISSUED FOR

1. AGENCY REVIEW	DATE
2. ---	10/27/2021
3. ---	---
4. ---	---
5. ---	---
6. ---	---
7. ---	---
8. ---	---
9. ---	---
10. ---	---
11. ---	---
12. ---	---

REVISIONS

ITEM	DATE
1. ---	---
2. ---	---
3. ---	---
4. ---	---
5. ---	---
6. ---	---

SHEET TITLE

**LANDSCAPING PLAN**

DRAWN: KG  
CHECKED: LND  
PM: RCS

PROJECT NUMBER  
SHEET NUMBER

**19055**

**L01**



# CITY OF MADISON LANDSCAPE WORKSHEET

Section 28.142 Madison General Ordinance

Project Location / Address \_\_\_\_\_  
 Name of Project \_\_\_\_\_  
 Owner / Contact \_\_\_\_\_  
 Contact Phone \_\_\_\_\_ Contact Email \_\_\_\_\_

**\*\* Landscape plans for zoning lots greater than ten thousand (10,000) square feet in size  
MUST be prepared by a registered landscape architect. \*\***

### Applicability

The following standards apply to all exterior construction and development activity, including the expansion of existing buildings, structures and parking lots, except the construction of detached single-family and two-family dwellings and their accessory structures. The entire development site must be brought up to compliance with this section unless **all** of the following conditions apply, in which case only the affected areas need to be brought up to compliance:

- (a) The area of site disturbance is less than ten percent (10%) of the entire development site during any ten-(10) year period.
- (b) Gross floor area is only increased by ten percent (10%) during any ten-(10) year period.
- (c) No demolition of a principal building is involved.
- (d) Any displaced landscaping elements must be replaced on the site and shown on a revised landscaping plan.

### Landscape Calculations and Distribution

Required landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as that area within a single contiguous boundary which is made up of structures, parking, driveways and docking/loading facilities, but excluding the area of any building footprint at grade, land designated for open space uses such as athletic fields, and undeveloped land area on the same zoning lot. There are three methods for calculating landscape points depending on the size of the lot and Zoning District.

- (a) For all lots except those described in (b) and (c) below, five (5) landscape points shall be provided for each three hundred (300) square feet of developed area.

Total square footage of developed area \_\_\_\_\_

Total landscape points required \_\_\_\_\_

- (b) **For lots larger than five (5) acres**, points shall be provided at five (5) points per three hundred (300) square feet for the first five (5) developed acres, and one (1) point per one hundred (100) square feet for all additional acres.

Total square footage of developed area \_\_\_\_\_

Five (5) acres = 217,800 square feet

First five (5) developed acres = 3,630 points

Remainder of developed area \_\_\_\_\_

Total landscape points required \_\_\_\_\_

- (c) **For the Industrial – Limited (IL) and Industrial – General (IG) districts**, one (1) point shall be provided per one hundred (100) square feet of developed area.

Total square footage of developed area \_\_\_\_\_

Total landscape points required \_\_\_\_\_

**Tabulation of Points and Credits**

Use the table to indicate the quantity and points for all existing and proposed landscape elements.

Plant Type/ Element	Minimum Size at Installation	Points	Credits/ Existing Landscaping		New/ Proposed Landscaping	
			Quantity	Points Achieved	Quantity	Points Achieved
Overstory deciduous tree	2½ inch caliper measured diameter at breast height (dbh)	35				
Tall evergreen tree (i.e. pine, spruce)	5-6 feet tall	35				
Ornamental tree	1 1/2 inch caliper	15				
Upright evergreen shrub (i.e. arborvitae)	3-4 feet tall	10				
Shrub, deciduous	#3 gallon container size, Min. 12”-24”	3				
Shrub, evergreen	#3 gallon container size, Min. 12”-24”	4				
Ornamental grasses/ perennials	#1 gallon container size, Min. 8”-18”	2				
Ornamental/ decorative fencing or wall	n/a	4 per 10 lineal ft.				
Existing significant specimen tree	Minimum size: 2 ½ inch caliper dbh. *Trees must be within developed area and cannot comprise more than 30% of total required points.	14 per caliper inch dbh. Maximum points per tree: 200				
Landscape furniture for public seating and/or transit connections	* Furniture must be within developed area, publically accessible, and cannot comprise more than 5% of total required points.	5 points per “seat”				
<b>Sub Totals</b>						

**Total Number of Points Provided \_\_\_\_\_**

\* As determined by ANSI, ANLA- American standards for nursery stock. For each size, minimum plant sizes shall conform to the specifications as stated in the current American Standard for Nursery Stock.

Landscaping shall be distributed throughout the property along street frontages, within parking lot interiors, as foundation plantings, or as general site landscaping. The total number of landscape points provided shall be distributed on the property as follows.

**Total Developed Area**

Required landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as that area within a single contiguous boundary which is made up of structures, parking, driveways and docking/loading facilities, but excluding the area of any building footprint at grade, land designated for open space uses such as athletic fields, and undeveloped land area on the same zoning lot.

**Development Frontage Landscaping**

Landscaping and/or ornamental fencing shall be provided between buildings or parking areas and the adjacent street(s), except where buildings are placed at the sidewalk. Landscape material shall include a mix of plant materials.

**Interior Parking Lot Landscaping**

The purpose of interior parking lot landscaping is to improve the appearance of parking lots, provide shade, and improve stormwater infiltration. **All parking lots with twenty (20) or more parking spaces** shall be landscaped in accordance with the interior parking lot standards.

**Foundation Plantings**

Foundation plantings shall be installed along building facades, except where building facades directly abut the sidewalk, plaza, or other hardscape features. Foundation plantings shall consist primarily of shrubs, perennials, and native grasses.

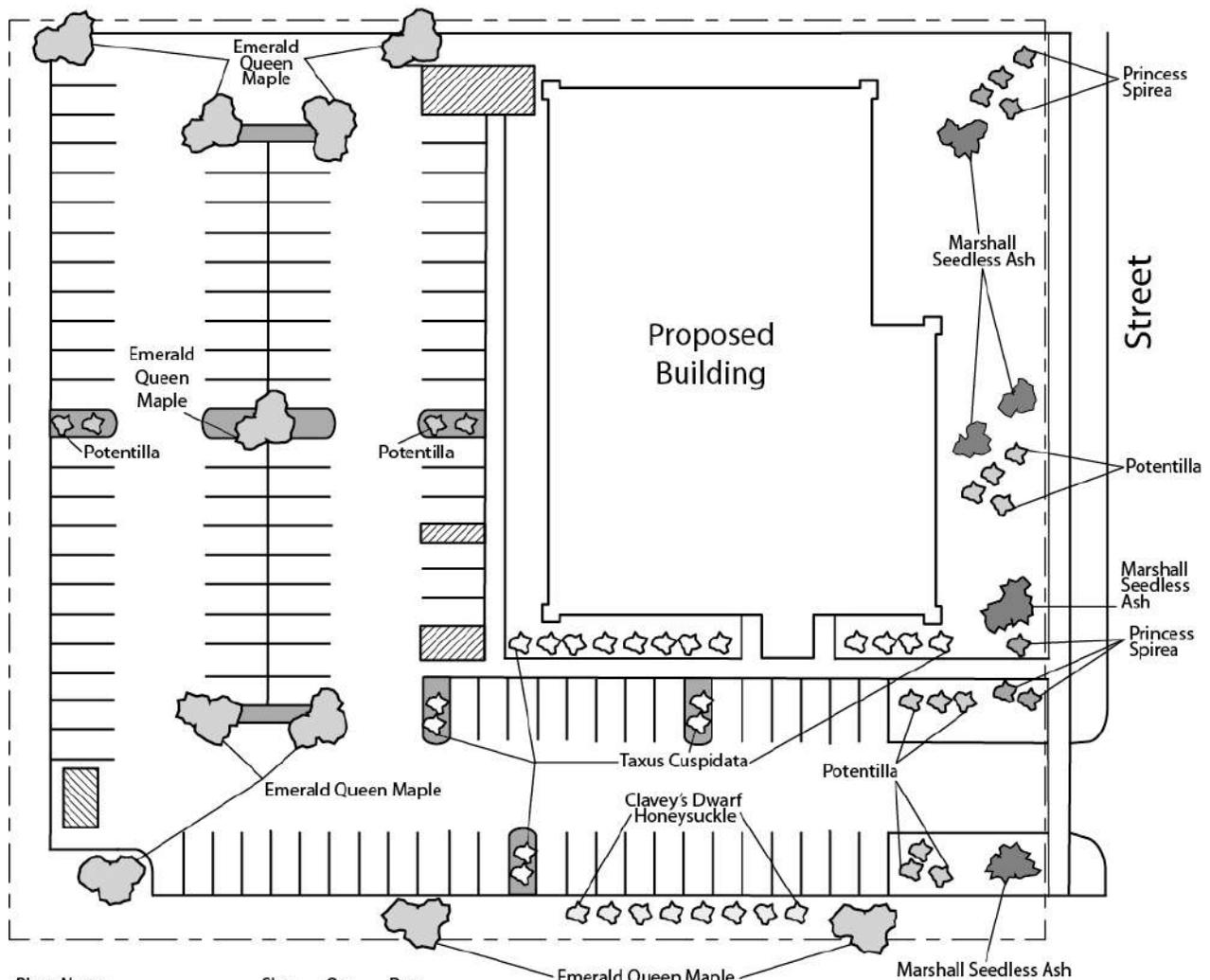
**Screening Along District Boundaries**

Screening shall be provided along side and rear property boundaries between commercial, mixed use or industrial districts and residential districts.

**Screening of Other Site Elements**

The following site elements shall be screened in compatibility with the design elements, materials and colors used elsewhere on the site: refuse disposal areas, outdoor storage areas, loading areas, and mechanical equipment.

**Example Landscape Plan**



Plant Name	Size	Qty.	Pnts.
Emerald Queen Maple	2-2.5"	9	-
Marshall Seedless Ash	2-2.5"	4	450
Clavey's Dwarf Honeysuckle	1 Gal	8	24
Princess Spirea	1 Gal	7	21
Potentilla	1 Gal	10	30
Taxus Cuspidata	2 Gal	12	60
			TOTAL 585

Call City Zoning, 266-4551, with your questions about this type of plan

## LANDSCAPE PLAN AND LANDSCAPE WORKSHEET INSTRUCTIONS

Refer to Zoning Code Section 28.142 LANDSCAPING AND SCREENING REQUIREMENTS for the complete requirements for preparing and submitting a Landscape Plan and Landscape Worksheet.

### **Applicability.**

The following standards apply to all exterior construction and development activity, including the expansion of existing buildings, structures and parking lots, except the construction of detached single-family and two-family dwellings and their accessory structures. The entire development site must be brought up to compliance with this section unless all of the following conditions apply, in which case only the affected areas need to be brought up to compliance:

- (a) The area of site disturbance is less than ten percent (10%) of the entire development site during any ten-(10) year period.
- (b) Gross floor area is only increased by ten percent (10%) during any ten-(10) year period.
- (c) No demolition of a principal building is involved.
- (d) Any displaced landscaping elements must be replaced on the site and shown on a revised landscaping plan.

### **Landscape Plan and Design Standards.**

Landscape plans shall be submitted as a component of a site plan, where required, or as a component of applications for other actions, including zoning permits, where applicable. Landscape plans for zoning lots greater than ten thousand (10,000) square feet in size must be prepared by a registered landscape architect.

- (a) Elements of the landscape plan shall include the following:
  1. Plant list including common and Latin names, size and root condition (i.e. container or ball & burlap).
  2. Site amenities, including bike racks, benches, trash receptacles, etc.
  3. Storage areas including trash and loading.
  4. Lighting (landscape, pedestrian or parking area).
  5. Irrigation.
  6. Hard surface materials.
  7. Labeling of mulching, edging and curbing.
  8. Areas of seeding or sodding.
  9. Areas to remain undisturbed and limits of land disturbance.
  10. Plants shall be depicted at their size at sixty percent (60%) of growth.
  11. Existing trees eight (8) inches or more in diameter.
  12. Site grading plan, including stormwater management, if applicable.
- (b) Plant Selection. Plant materials provided in conformance with the provisions of this section shall be nursery quality and tolerant of individual site microclimates.
- (c) Mulch shall consist of shredded bark, chipped wood or other organic material installed at a minimum depth of two (2) inches.

### **Landscape Calculations and Distribution.**

Required landscaped areas shall be calculated based upon the total developed area of the property. Developed area, for the purpose of this requirement, is defined as that area within a single contiguous boundary which is made up of structures, parking driveways and docking/loading facilities, but **excluding** the area of any building footprint at grade, land designated for open space uses such as athletic fields, and undeveloped land area on the same zoning lot.

- (a) Landscaping shall be distributed throughout the property along street frontages, within parking lot interiors, and as foundation plantings, or as general site landscaping.
- (b) Planting beds or planted areas must have at least seventy-five percent (75%) vegetative cover.
- (c) Canopy tree diversity requirements for new trees:
  1. If the development site has fewer than 5 canopy trees, no tree diversity is required.
  2. If the development site has between 5 and 50 canopy trees, no single species may comprise more than 33% of trees.
  3. If the development site has more than 50 canopy trees, no single species may comprise more than 20% of trees.

### **Development Frontage Landscaping.**

Landscaping and/or ornamental fencing shall be provided between buildings or parking areas and the adjacent street(s), except where buildings are placed at the sidewalk. Landscape material shall include a mix of plant material meeting the following minimum requirements:

- (a) One (1) overstory deciduous tree and five (5) shrubs shall be planted for each thirty (30) lineal feet of lot frontage. Two (2) ornamental trees or two (2) evergreen trees may be used in place of one (1) overstory deciduous tree.
- (b) In cases where building facades directly abut the sidewalk, required frontage landscaping shall be deducted from the required point total.
- (c) In cases where development frontage landscaping cannot be provided due to site constraints, the zoning administrator may waive the requirement or substitute alternative screening methods for the required landscaping.
- (d) Fencing shall be a minimum of three (3) feet in height, and shall be constructed of metal, masonry, stone or equivalent material. Chain link or temporary fencing is prohibited.

### **Interior Parking Lot Landscaping.**

The purpose of interior parking lot landscaping is to improve the appearance of parking lots, provide shade, and improve stormwater infiltration. **All parking lots with twenty (20) or more parking spaces** shall be landscaped in accordance with the following interior parking lot standards.

- (a) For new development on sites previously undeveloped or where all improvements have been removed, a minimum of eight percent (8%) of the asphalt or concrete area of the parking lot shall be devoted to interior planting islands, peninsulas, or landscaped strips. For changes to a developed site, a minimum of five percent (5%) of the asphalt or concrete area shall be interior planting islands, peninsulas, or landscaped strips. A planting island shall be located at least every twelve (12) contiguous stalls with no break or alternatively, landscaped strips at least seven (7) feet wide between parking bays.
- (b) The primary plant materials shall be shade trees with at least one (1) deciduous canopy tree for every one hundred sixty (160) square feet of required landscaped area. Two (2) ornamental deciduous trees may be substituted for one (1) canopy tree, but ornamental trees shall constitute no more than twenty-five percent (25%) of the required trees. No light poles shall be located within the area of sixty percent (60%) of mature growth from the center of any tree.
- (c) Islands may be curbed or may be designed as uncurbed bio-retention areas as part of an approved low impact stormwater management design approved by the Director of Public Works. The ability to maintain these areas over time must be demonstrated. (See Chapter 37, Madison General Ordinances, Erosion and Stormwater Runoff Control.)

### **Foundation Plantings.**

Foundation plantings shall be installed along building facades, except where building facades directly abut the sidewalk, plaza, or other hardscape features. Foundation plantings shall consist primarily of shrubs, perennials, and native grasses. The Zoning Administrator may modify this requirement for development existing prior to the effective date of this ordinance, as long as improvements achieve an equivalent or greater level of landscaping for the site.

### **Screening Along District Boundaries.**

Screening shall be provided along side and rear property boundaries between commercial, mixed use or industrial districts and residential districts. Screening shall consist of a solid wall, solid fence, or hedge with year-round foliage, between six (6) and eight (8) feet in height, except that within the front yard setback area, screening shall not exceed four (4) feet in height. Height of screening shall be measured from natural or approved grade. Berms and retaining walls shall not be used to increase grade relative to screening height.

### **Screening of Other Site Elements.**

The following site elements shall be screened in compatibility with the design elements, materials and colors used elsewhere on the site, as follows:

- (a) Refuse Disposal Areas. All developments, except single family and two family developments, shall provide a refuse disposal area. Such area shall be screened on four (4) sides (including a gate for access) by a solid, commercial-grade wood fence, wall, or equivalent material with a minimum height of six (6) feet and not greater than seven (7) feet.
- (b) Outdoor Storage Areas. Outdoor storage areas shall be screened from abutting residential uses with a by a building wall or solid, commercial-grade wood fence, wall, year-round hedge, or equivalent material, with a minimum height of six (6) feet and not greater than seven (7) feet. Screening along district boundaries, where present, may provide all or part of the required screening.
- (c) Loading Areas. Loading areas shall be screened from abutting residential uses and from street view to the extent feasible by a building wall or solid, commercial-grade wood fence, or equivalent material, with a minimum height of six (6) feet and not greater than seven (7) feet. Screening along district boundaries, where present, may provide all or part of the required screening.
- (d) Mechanical Equipment. All rooftop and ground level mechanical equipment and utilities shall be fully screened from view from any street or residential district, as viewed from six (6) feet above ground level. Screening may consist of a building wall or fence and/or landscaping as approved by the Zoning Administrator.

### **Maintenance.**

The owner of the premises is responsible for the watering, maintenance, repair and replacement of all landscaping, fences, and other landscape architectural features on the site. All planting beds shall be kept weed free. Plant material that has died shall be replaced no later than the upcoming June 1.

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	LMF	Lum. Lumens	Lum. Watts	Part Number	BUG Rating
	6	H1	SINGLE	1.000	1256	17.9	CL-H-18110-91-HL-D-91-13-LED2-30-DBCM-M	B1-U0-G0
	6	PB1a	SINGLE	1.000	17000	132	OSQ-A-NM-4ME-T-57K-UL-BZ w/OSQ-B-AABZ OSQ-BLSLF	B2-U0-G3
	7	Dalt	SINGLE	1.000	1200	14.5	Comparable to existing building lights	B1-U0-G0

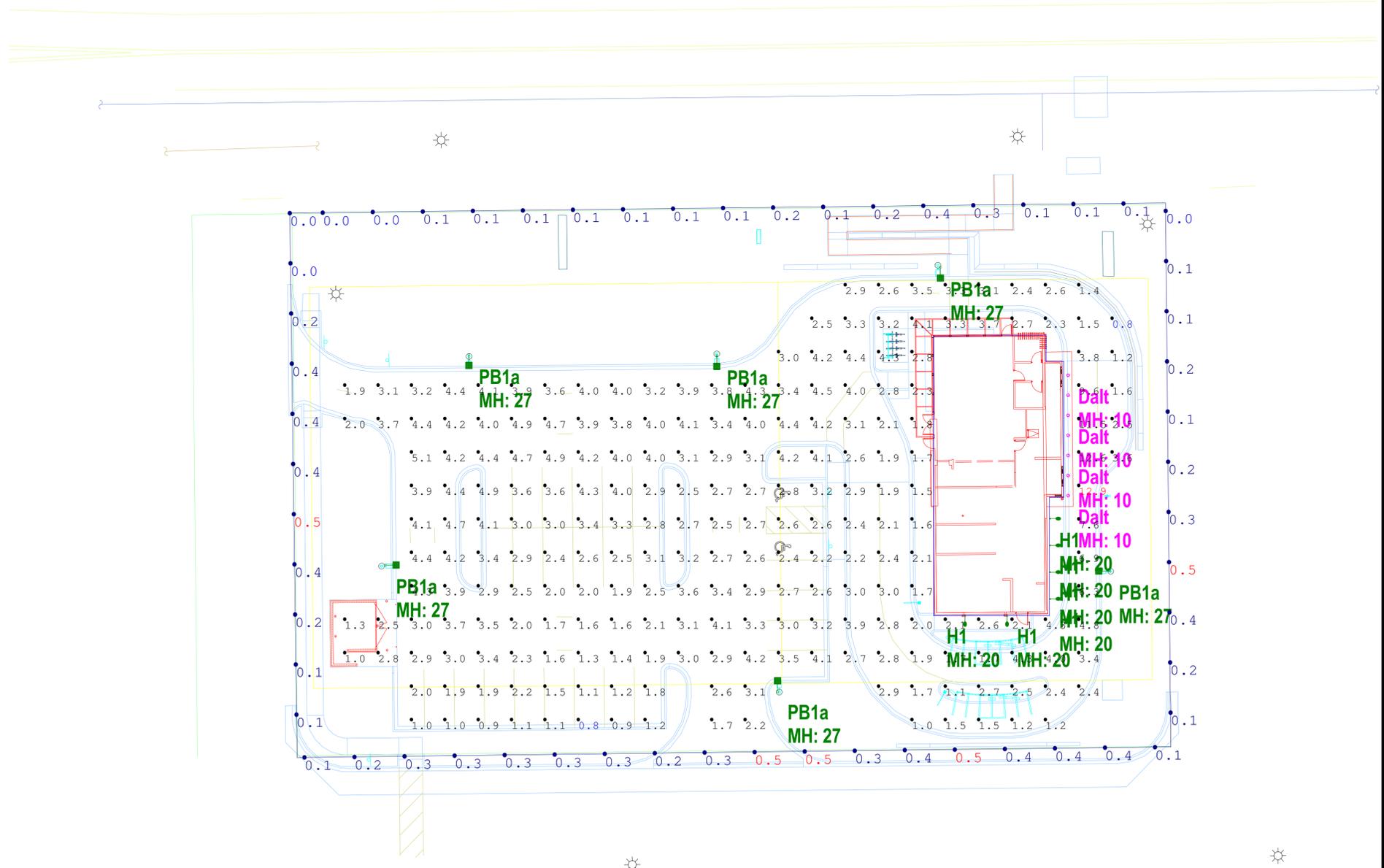
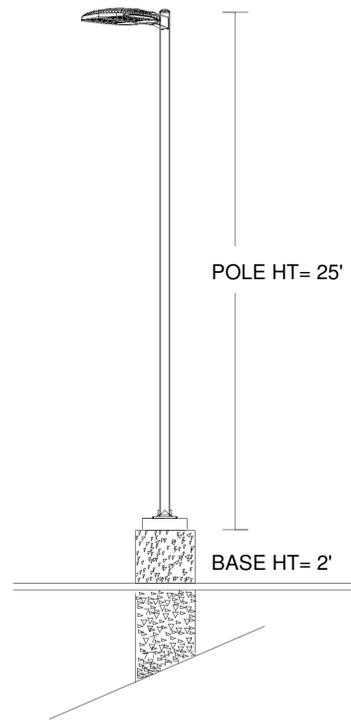
Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Paved Area	Fc	3.09	12.9	0.8	3.86	16.13
Property Line	Fc	0.23	0.5	0.0	N.A.	N.A.

Calculations on property line are at 4' AFG.

FIXTURE MOUNTING HEIGHT: 27' AFG (25' POLE + 2.0' Base)

ADDITIONAL EQUIPMENT REQUIRED:  
 (6) CL-SSP-4011-25-D6-BZ (25' x 4" x 11ga STEEL SQUARE POLE)  
 (6) OSQ-DA-BZ DIRECT ARM MOUNT

OSQ Area Luminaire



**CREE LIGHTING**  
 A COMPANY OF IDEAL INDUSTRIES, INC.  
 9201 Washington Ave, Racine, WI 53406 https://creelighting.com - (800) 236-6800

Illumination results shown on this lighting design are based on project parameters provided to Cree Lighting used in conjunction with luminaire test procedures conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results. The customer is responsible for verifying dimensional accuracy along with compliance with any applicable electrical, lighting or energy code.

Project Name: Popeye's - Odana Rd Madison, WI  
 SR-36676 || Footcandles calculated at grade || Filename: POP-211001MAWIBAFR2\_AGI  
 Date: 10/22/2021

Layout By:  
 Ben Foster

Scale 1" = 20'  
  
 0 40 80

Type: CL-SSP-4011-25-D6-PS

**CATALOG #**

CL-SSP

**SIZE/GAUGE**

**4011** – 4" Square/11ga  
(available on 18', 20' and 25' poles)  
**4007** – 4" Square/7ga  
(available on 25' and 30' poles)  
**5011** – 5" Square/11ga  
(available on 25', 26' poles)  
**5007** – 5" Square/7ga  
(available on 25', 28' and 30' poles)

**HEIGHT**

18 – 18'  
 20 – 20'  
 25 – 25'  
 26 – 26'  
 28 – 28'  
 30 – 30'

**MOUNTING**

OT – Open Top  
 TT – Tenon Top  
 D1 – Drilled for Single  
 D2 – Drilled for Double at 180°  
 D3 – Drilled for Double at 90°  
 D5 – Drilled for Triple at 90°  
 D6 – Drilled for Quad at 90°

**FINISH**

Polyester Powder Coat Finish  
**BZ** – Bronze  
**SV** – Silver  
**BK** – Black  
**WH** – White  
**PS** – Platinum Silver

**SHAFT**

- ASTM A-500 Grade B carbon steel
- Minimum 46,000 P.S.I. yield strength
- Drilled top includes removable cap
- Tenon top includes 2-3/8" O.D. x 4.0" H x .25" Thick tenon

**BASE PLATE**

- ASTM A-36 hot rolled carbon steel
- Minimum 36,000 P.S.I. yield strength
- Removable Base Cover
- 8.0" Square Base Plate (4" Poles)
- 11.0" Square Base Plate (5" Poles)
- 0.75" Thick Base Plate (11ga. Poles)
- 0.75" Thick Base Plate (7ga. 4" Poles)
- 1.0" Thick Base Plate (7ga. 5" Poles)
- ø8.5" Bolt Circle (4" Poles)
- ø10.5-11.5" Bolt Circle (5" Poles)
- 1.0" Bolt Holes (11ga. Poles)
- 1.25" Bolt Holes (7ga. Poles)
- 5.66" – 6.36" Bolt Pattern Measurement (4" poles)
- 7.43" – 8.13" Bolt Pattern Measurement (5" Poles)

**ANCHOR BOLTS**

- F1554 Grade
- Minimum 55,000 P.S.I. yield strength
- Fully galvanized
- 17.0" L x 0.75" Dia. J Bolts (11ga. Poles)
- 37.0" L x 1.0" Dia. J Bolts (7ga. Poles)
- Includes two hex nuts and two flat washers

**HAND HOLE**

- 3.0" x 5.0" Hand Hole w/ Cover
- Located 14.0" above base

**ACCESSORIES**

**Templates**

CS006S05 (4"/11ga Poles)  
 CS006S06 (5"/11ga Poles)  
 CS006S07 (5"/7ga Poles)

**Anchor Bolts**

CZ066X01R0 (11ga Poles)  
 CZ066X03R0 (7ga Poles)

**WARRANTY**

One-year limited warranty. Certain exclusions apply. For details, contact factory.

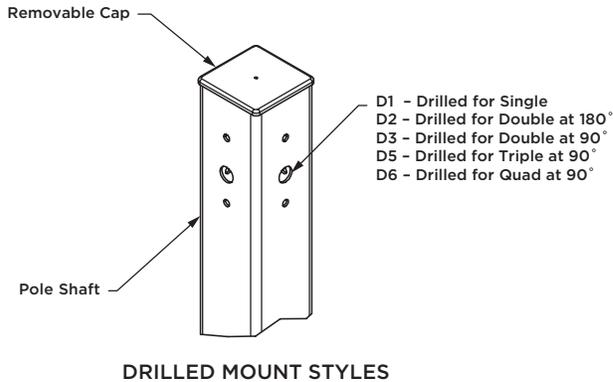
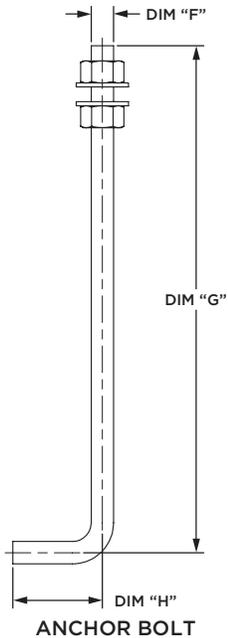
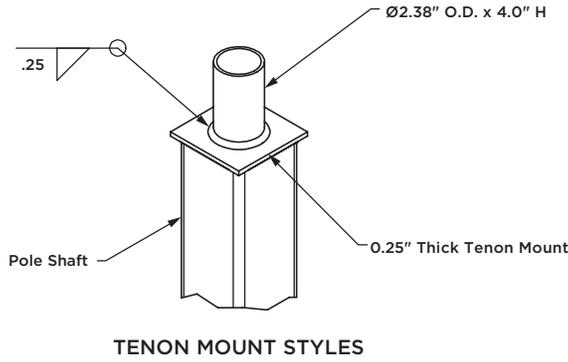
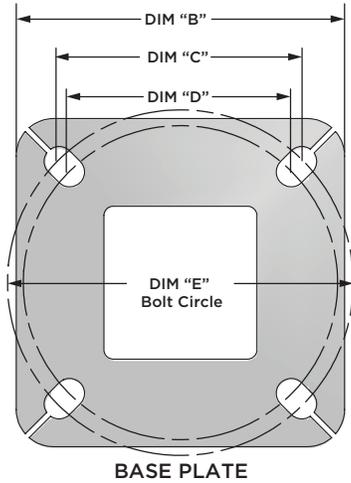
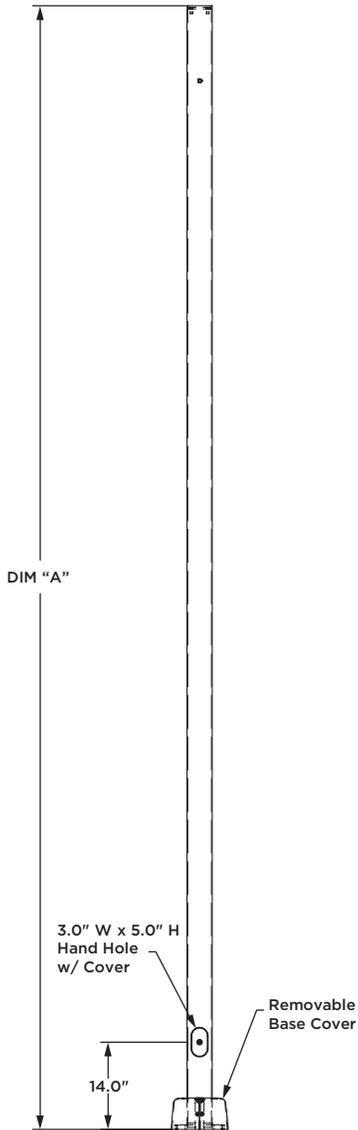


# Square Steel Poles

## CL-SSP Series

POLE DATA														
Pole Selection	DIMENSIONS										EPA/WINDLOADING (sq. ft.)			
	Pole Size	Pole Gage	DIM "A" Pole Height	DIM "B" Base Plate	DIM "C" Min. Bolt Pattern	DIM "D" Max. Bolt Pattern	DIM "E" Bolt Circle	DIM "F" Anchor Bolt Diameter	DIM "G" Anchor Bolt Height	DIM "H" Anchor Bolt Width	80*	90*	100*	120*
CL-SSP-4011-18	4"	11ga.	18'	8" SQ.	5.66"	6.36"	ø8.5"	0.75"	17"	3"	11.1	9.0	7.2	5.1
CL-SSP-4011-20	4"	11ga.	20'	8" SQ.	5.66"	6.36"	ø8.5"	0.75"	17"	3"	9.0	7.3	5.9	4.2
CL-SSP-4011-25	4"	11ga.	25'	8" SQ.	5.66"	6.36"	ø8.5"	0.75"	17"	3"	4.1	3.3	2.6	1.8.
CL-SSP-4007-25	4"	7ga.	25'	8" SQ.	5.66"	6.36"	ø8.5"	0.75"	17"	3"	9.7	7.8	6.3	4.5
CL-SSP-5011-25	5"	11ga.	25'	11" SQ.	7.43"	8.13"	ø10.5-11.5"	0.75"	17"	3"	8.5	6.9	5.6	4.0
CL-SSP-5007-25	5"	7ga.	25'	11" SQ.	7.43"	8.13"	ø10.5-11.5"	1"	37"	4"	17.5	14.2	11.4	8.1
CL-SSP-5011-26	5"	11ga.	26'	11" SQ.	7.43"	8.13"	ø10.5-11.5"	0.75"	17"	3"	4.8	3.9	3.1	2.2
CL-SSP-5007-28	5"	7ga.	28'	11" SQ.	7.43"	8.13"	ø10.5-11.5"	1"	37"	4"	11.4	9.2	7.4	5.3
CL-SSP-5007-30	5"	7ga.	30'	11" SQ.	7.43"	8.13"	ø10.5-11.5"	1"	37"	4"	10.6	8.6	6.9	4.9

\* Includes 1.3 gust factor.



# OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Large

Rev. Date: V27 10/21/2020

## Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 'T' input power designator is a suitable upgrade for HID applications up to 750 Watts, and the 'U' input power designator is a suitable upgrade for HID applications up to 1000 Watts.

**Applications:** Parking lots, walkways, campuses, auto dealerships, office complexes, tunnels, underpasses and internal roadways

## Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

**Initial Delivered Lumens:** Up to 29,700

**Efficacy:** Up to 173 LPW

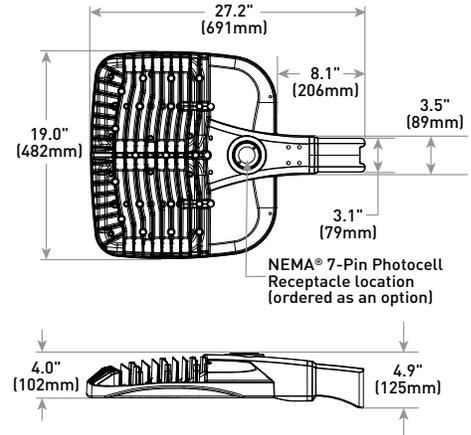
**CRI:** Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

**CCT:** 3000K, 4000K, 5000K, 5700K

**Limited Warranty\*:** 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

\* See <http://creelighting.com/warranty> for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

## DA Mount



## Weight

32.4 lbs. (14.7kg)

## Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:

Example: **Mount:** OSQ-B-AASV + **Luminaire:** OSQ-A-NM-2ME-T-40K-UL-SV

Mount (Luminaire must be ordered separately)*	
OSQ-	
OSQ-B-AA Adjustable Arm	Color Options: <b>SV</b> Silver <b>BZ</b> Bronze <b>BK</b> Black <b>WH</b> White
OSQ-DA Direct Arm	
OSQ-L-TSP Transportation Mount (stainless steel; do not specify color)	
OSQ-TM Trunnion Mount	

\* Reference EPA and pole configuration suitability data beginning on page 10

Luminaire (Mount must be ordered separately)								
OSQ	A	NM						
Product	Version	Mounting	Optic	Input Power Designator	CCT	Voltage	Color Options	Options
OSQ	A	NM No Mount	<b>Asymmetric</b> <b>2ME*</b> Type II Medium <b>4ME*</b> Type IV Medium <b>3ME*</b> Type III Medium  <b>Symmetric</b> <b>5ME</b> Type V Medium <b>5SH</b> Type V Short <b>5SQ</b> Type V Square <b>WSN</b> Wide Sign <b>15D</b> 15" Flood	<b>T</b> 132W <b>U</b> 202W  <b>30K</b> 3000K, 70 CRI <b>40K</b> 4000K, 70 CRI <b>50K</b> 5000K, 90 CRI <b>57K</b> 5700K, 70 CRI	<b>UL</b> Universal 120-277V <b>UH</b> Universal 347-480V	<b>BK</b> Black <b>BZ</b> Bronze <b>SV</b> Silver <b>WH</b> White	<b>F Fuse</b> - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to <a href="#">PML spec sheet</a> for availability with PML options - When code dictates fusing, use time delay fuse  <b>PML Programmable Multi-Level, up to 40' Mounting Height</b> - Refer to <a href="#">PML spec sheet</a> for details - Intended for downlight applications at 0° tilt  <b>PML2 Programmable Multi-Level, 10-30' Mounting Height</b> - Refer to <a href="#">PML spec sheet</a> for details - Intended for downlight applications at 0° tilt  <b>Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output</b> - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 12-13 for power and lumen values - Not available with PML or PML2 options	<b>R NEMA® 7-Pin Photocell Receptacle</b> - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" [457mm] seven-conductor cord exits luminaire - Requires photocell or shorting cap by others  <b>RL Rotate Left</b> - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics  <b>RR Rotate Right</b> - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics

\* Available with Backlight Shield when ordered with field-installed accessory (see table above)



US: [creelighting.com](http://creelighting.com) (800) 236-6800

Canada: [creelighting-canada.com](http://creelighting-canada.com) (800) 473-1234

**Product Specifications**

**CREE TRUEWHITE® TECHNOLOGY**

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

**CONSTRUCTION & MATERIALS**

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Includes 18" (340mm) 18/5 or 16/5 cord exiting the luminaire. When ordered with R option, 18" (340mm) 18/7 or 16/7 cord is provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** OSQ-DA: 32.4 lbs. (14.7kg); OSQ-B-AA: 32.0 lbs. (14.5kg); OSQ-L-TSP: 44 lbs. (20.0kg); OSQ-TM: 36.1 lbs. (16.4kg)

**ELECTRICAL SYSTEM**

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to [Dimming spec sheet](#) for details
- **10V Source Current:** 0.15mA
- **Operating Temperature Range:** -40°C - +40°C (-40°F - +104°F)

**REGULATORY & VOLUNTARY QUALIFICATIONS**

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards with AA, DA, TM, and TSP mounts. For adjustable arm applications requiring ANSI C136.31-2001 3G vibration certification, ensure that existing or new adjustable arm mount model number matches OSQ-B-AA for all OSQ large housing luminaires with power designations "T", and "U"
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to <https://www.designlights.org/search/> for most current information
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to <https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/> for most current information
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

**Product Specifications**

**SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL**

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*							
Input Power Designator	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
T	132	1.12	0.63	0.55	0.47	0.39	0.28
U	202	1.72	0.96	0.84	0.72	0.60	0.43

\* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/-10%

OSQ Series Ambient Adjusted Lumen Maintenance <sup>1</sup>						
Ambient	Optic	Initial LMF	25K hr Reported <sup>2</sup> LMF	50K hr Reported <sup>2</sup> LMF	75K hr Reported <sup>2</sup> /Estimated <sup>3</sup> LMF	100K hr Reported <sup>2</sup> /Estimated <sup>3</sup> LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99 <sup>2</sup>	0.97 <sup>2</sup>
	Symmetric	1.05	1.05	1.05	1.05 <sup>3</sup>	1.05 <sup>3</sup>
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98 <sup>2</sup>	0.96 <sup>2</sup>
	Symmetric	1.04	1.03	1.03	1.03 <sup>3</sup>	1.03 <sup>3</sup>
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97 <sup>2</sup>	0.95 <sup>2</sup>
	Symmetric	1.02	1.02	1.02	1.02 <sup>3</sup>	1.02 <sup>3</sup>
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96 <sup>2</sup>	0.94 <sup>2</sup>
	Symmetric	1.01	1.01	1.01	1.01 <sup>3</sup>	1.01 <sup>3</sup>
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95 <sup>2</sup>	0.93 <sup>2</sup>
	Symmetric	1.00	1.00	1.00	1.00 <sup>3</sup>	1.00 <sup>3</sup>

<sup>1</sup> Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

<sup>2</sup> In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

<sup>3</sup> Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

**Accessories**

Field-Installed			
<b>Backlight Shield</b> OSQ-BLSLF – Front facing optics OSQ-BLSLR – Rotated optics	<b>Hand-Held Remote</b> XA-SENSREM – For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required	<b>Bird Spikes</b> OSQ-LG-BRDSPK	<b>Shorting Cap</b> XA-XLSLSHRT
Synapse Wireless Control Accessories			
<b>Twist-Lock Lighting Controller</b> TL7-B2 – Suitable for 120-277V (UL) voltage only – Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle – Not for use with PML or Q options – Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires – Refer to <a href="#">TL7-B2</a> spec sheet for details	<b>SimplySNAP Central Base Station</b> CBSW-450-002 – Includes On-Site Controller (SS450-002) and 5-button switch – Indoor and Outdoor rated – Refer to <a href="#">CBSW-450-002</a> spec sheet for details	<b>SimplySNAP On-Site Controller</b> SS450-002 – Verizon® LTE-enabled – Designed for indoor applications – Refer to <a href="#">SS450-002</a> spec sheet for details	<b>Building Management System (BMS) Gateway</b> BMS-GW-002 – Required for BACnet integration – Refer to <a href="#">BMS-GW-002</a> spec sheet for details
<b>Synapse Wireless Sensor</b> WSN-DPM – Motion and light sensor – Control multiple zones – Refer to <a href="#">WSN-DPM</a> spec sheet for details		<b>Outdoor Antennas (Optional, for increased range, 8dB gain)</b> KIT-ANT420SM – Kit includes antenna, 20' cable and bracket KIT-ANT360 – Kit includes antenna, 30' cable and bracket KIT-ANT600 – Kit includes antenna, 50' cable and bracket – Refer to <a href="#">Outdoor antenna spec sheet</a> for details	

# OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium

Rev. Date: V27 10/21/2020

## Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 'B' Input power designator is a suitable upgrade for HID applications up to 250 Watt, and the 'K' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

**Applications:** Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

## Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

**Initial Delivered Lumens:** Up to 17,291

**Efficacy:** Up to 136 LPW

**CRI:** Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

**CCT:** 3000K, 4000K, 5000K, 5700K

**Limited Warranty\*:** 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

\*See <http://creelighting.com/warranty> for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

## Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:

Example: **Mount:** OSQ-B-AAS + **Luminaire:** OSQ-A-NM-2ME-B-40K-UL-SV

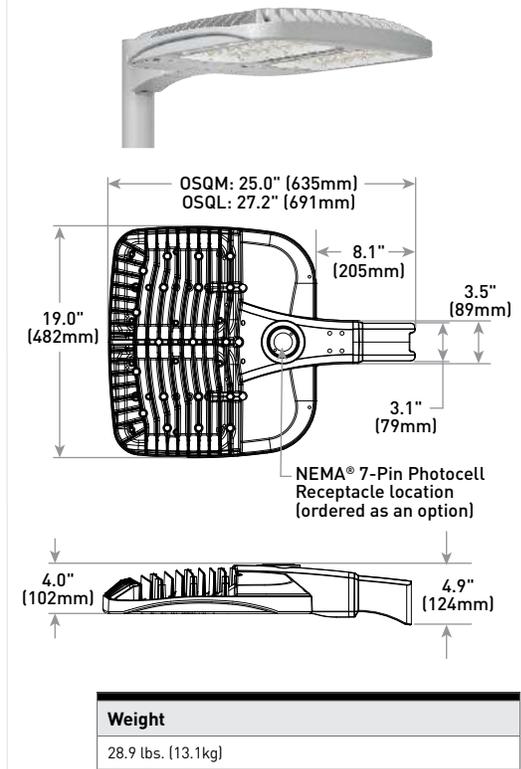
Mount (Luminaire must be ordered separately)*	
OSQ-	
OSQ-B-AA Adjustable Arm OSQ-DA Direct Arm OSQ-M-TSP Transportation Mount (stainless steel; do not specify color) OSQ-TM Trunnion Mount	<b>Color Options:</b> SV Silver BK Black BZ Bronze WH White

\* Reference EPA and pole configuration suitability data beginning on page 10

Luminaire (Mount must be ordered separately)									
OSQ	A	NM							
Product	Version	Mounting	Optic	Input Power Designator	CCT	Voltage	Color Options	Options	
OSQ	A	NM No Mount	<b>Asymmetric</b> <b>2ME*</b> Type II <b>4ME*</b> Type IV Medium <b>3ME*</b> Type III Medium  <b>Symmetric</b> <b>5ME</b> Type V Medium <b>25D</b> 25° Flood <b>40D</b> 40° Flood <b>55H</b> Type V Short 60° Flood <b>60D</b> 60° Flood <b>55Q</b> Type V Square 120° Flood <b>WSN</b> Wide Sign <b>15D</b> 15° Flood	<b>B</b> 86W <b>K</b> 130W <b>Z</b> 53W	<b>30K</b> 3000K, 70 CRI <b>40K</b> 4000K, 70 CRI <b>50K</b> 5000K, 90 CRI <b>57K</b> 5700K, 70 CRI	<b>UL</b> Universal 120-277V  <b>UH</b> Universal 347-480V - Available with B & K Input Power Designators only	<b>BK</b> Black <b>BZ</b> Bronze <b>SV</b> Silver <b>WH</b> White	<b>F Fuse</b> - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to <a href="#">PML spec sheet</a> for availability with PML options - When code dictates fusing, use time delay fuse  <b>PML Programmable Multi-Level, up to 40' Mounting Height</b> - Refer to <a href="#">PML spec sheet</a> for details - Intended for downlight applications at 0° tilt  <b>PML2 Programmable Multi-Level, 10-30' Mounting Height</b> - Refer to <a href="#">PML spec sheet</a> for details - Intended for downlight applications at 0° tilt  <b>Q9/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output</b> - Must select Q9, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 12-13 for power and lumen values - Available with B & K Input Power Designators only - Not available with PML or PML2 options	<b>R NEMA® 7-Pin Photocell Receptacle</b> - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord exits luminaire - Requires photocell or shorting cap by others  <b>RL Rotate Left</b> - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics  <b>RR Rotate Right</b> - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics

\* Available with Backlight Shield when ordered with field-installed accessory (see table above)

## DA Mount



**Product Specifications**

**CREE TRUEWHITE® TECHNOLOGY**

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

**CONSTRUCTION & MATERIALS**

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Includes 18" (340mm) 18/5 or 16/5 cord exiting the luminaire. When ordered with R option, 18" (340mm) 18/7 or 16/7 cord is provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** OSQ-DA: 28.9 lbs. (13.1kg); OSQ-B-AA: 28.4 lbs. (12.9kg); OSQ-M-TSP: 42 lbs. (19.1kg); OSQ-TM: 32.6 lbs. (14.8kg)

**ELECTRICAL SYSTEM**

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 1.0mA
- **Operating Temperature Range:** -40°C - +40°C (-40°F - +104°F)

**REGULATORY & VOLUNTARY QUALIFICATIONS**

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards with AA, DA, TM, and TSP mounts
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to <https://www.designlights.org/search/> for most current information
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to <https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/> for most current information

 **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

**Product Specifications**

**SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL**

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*							
Input Power Designator	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
B	86	0.73	0.43	0.37	0.32	0.25	0.19
K	130	1.09	0.65	0.56	0.49	0.38	0.28
Z	53**	0.46	0.26	0.22	0.19	N/A	N/A

\* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%  
 \*\* Available with UL voltage only

OSQ Series Ambient Adjusted Lumen Maintenance <sup>1</sup>						
Ambient	Optic	Initial LMF	25K hr Reported <sup>2</sup> LMF	50K hr Reported <sup>2</sup> LMF	75K hr Reported <sup>2</sup> / Estimated <sup>3</sup> LMF	100K hr Reported <sup>2</sup> / Estimated <sup>3</sup> LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99 <sup>2</sup>	0.97 <sup>2</sup>
	Symmetric	1.05	1.05	1.05	1.05 <sup>3</sup>	1.05 <sup>3</sup>
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98 <sup>2</sup>	0.96 <sup>2</sup>
	Symmetric	1.04	1.03	1.03	1.03 <sup>3</sup>	1.03 <sup>3</sup>
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97 <sup>2</sup>	0.95 <sup>2</sup>
	Symmetric	1.02	1.02	1.02	1.02 <sup>3</sup>	1.02 <sup>3</sup>
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96 <sup>2</sup>	0.94 <sup>2</sup>
	Symmetric	1.01	1.01	1.01	1.01 <sup>3</sup>	1.01 <sup>3</sup>
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95 <sup>2</sup>	0.93 <sup>2</sup>
	Symmetric	1.00	1.00	1.00	1.00 <sup>3</sup>	1.00 <sup>3</sup>

<sup>1</sup> Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.  
<sup>2</sup> In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.  
<sup>3</sup> Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

**Accessories**

Field-Installed			
<b>Backlight Shield</b> OSQ-BLSMF - Front facing optics OSQ-BLSMR - Rotated optics	<b>Hand-Held Remote</b> XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required	<b>Bird Spikes</b> OSQ-MED-BRDSPK	<b>Shorting Cap</b> XA-XLSHRT
Synapse Wireless Control Accessories			
<b>Twist-Lock Lighting Controller</b> TL7-B2 - Suitable for 120-277V (UL) voltage only - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Not for use with PML or Q options - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires - Refer to <a href="#">TL7-B2</a> spec sheet for details		<b>SimplySNAP On-Site Controller</b> SS450-002 - Verizon® LTE-enabled - Designed for indoor applications - Refer to <a href="#">SS450-002</a> spec sheet for details	
<b>SimplySNAP Central Base Station</b> CBSW-450-002 - Includes On-Site Controller (SS450-002) and 5-button switch - Indoor and Outdoor rated - Refer to <a href="#">CBSW-450-002</a> spec sheet for details		<b>Building Management System (BMS) Gateway</b> BMS-GW-002 - Required for BACnet integration - Refer to <a href="#">BMS-GW-002</a> spec sheet for details	
<b>Outdoor Antennas (Optional, for increased range, 8dB gain)</b> KIT-ANT420SM - Kit includes antenna, 20' cable and bracket KIT-ANT360 - Kit includes antenna, 30' cable and bracket KIT-ANT600 - Kit includes antenna, 50' cable and bracket - Refer to <a href="#">Outdoor antenna spec sheet</a> for details			
<b>Synapse Wireless Sensor</b> WSN-DPM - Motion and light sensor - Control multiple zones - Refer to <a href="#">WSN-DPM</a> spec sheet for details			