



- Fee must accompany application
- \$700 Minor Addition
 - \$1,240 Construction <10,000 SF
 - \$2,095 Construction 10,000 SF to 50,000
 - \$3,460 Industrial Construction >50,000 SF
 - \$3,460 Commercial Construction >50,000
 - \$200 Plan Commission Consultation
 - \$125 Fire Department Plan Review

PAID [Signature] DATE 07/07/25
 CHK # 1768

SITE PLAN REVIEW APPLICATION

Pursuant to Section 17.43 of the Municipal Code

Please read and complete this application carefully. All applications must be signed and dated.

1 APPLICANT OR AGENT

Dan Braatz
Burgers & Braatz Properties, LLC
12455 Wrayburn Rd.
Elm Grove, WI 53122

Phone (262) 510-8057
 E-Mail danbraatz23@yahoo.com

Future
 PROPERTY OWNER [Signature]

Dan Braatz
Burgers & Braatz Properties, LLC
12455 Wrayburn Rd.
Elm Grove, WI 53122

Phone (262) 510-8057
 E-Mail danbraatz23@yahoo.com

2 PROPERTY ADDRESS

1 acre portion of real estate parcel with current Address: N112 W1300 Mequon Rd.
Germantown, WI 53022
 -South east corner of property -

3 NEIGHBORING USES - Specify name and type of use, e.g. Enviro Tech - Industrial, Smith - Residential, etc.

North	South	East	West
TBD	Church	Bank	TBD

- 4** READ AND INITIAL THE FOLLOWING:
- I am aware of the Village of Germantown ordinance requiring fire sprinklers in most new construction.
 - I understand that all new development is subject to Impact and/or Connection Fees that must be paid before building permits will be issued.
 - I understand that an incomplete application will be withdrawn from the Plan Commission agenda and that all resubmissions to the Plan Commission are subject to a new application fee.



5 SIGNATURES - ALL APPLICATION MUST BE SIGNED BY OWNER!

[Signature] 7/7/25

Applicant Date

[Signature] 7/7/25

Owner Date

Village of



Germantown

Village of Germantown
Clerk Treasurer
N112W17001 MEQUON ROAD
Germantown, WI 53022
(262)250-4700
Welcome

07/08/2025 11:29AM PRAVINA P
000932-0017
Payment effective date 07/08/2025

MISCELLANEOUS

ZONING FEES (GENZON)

2025 GENZON

1 @ \$1240.00

\$1,240.00

\$1,240.00

Subtotal

\$1,240.00

Total

\$1,240.00

CHECK

\$1,240.00

Check Number 1768

Change due

\$0.00

Paid by: BRAATZ13 LLC

Thank you for your payment

CUSTOMER COPY



WELCOME TO DELICIOUS®

Culver's is a Midwest based fast-casual restaurant chain. The company was founded in 1984 by George, Ruth, Craig and Lea Culver. The first location opened in Sauk City, WI on July 18th, 1984. The chain currently operates in 26 states totaling over 1,000 restaurants as of July 2025.

Culver's menu includes ButterBurgers, chicken sandwiches, chicken tenders, fish, salads, soups, french fries, onion rings and cheese curds. Dessert menu includes fresh, frozen custard, shakes, malts and other seasonal items.

Culver's standard hours of operation are 10:00AM to 10:00PM, every day of the week. Restaurants are typically closed on Easter Sunday, Thanksgiving Day and Christmas Day. Seasonal hours may include 10:00AM to 11:00PM over the summer months. Culver's operates a dining room, drive through window service, curbside order delivery as well as off site delivery utilizing third party vendors. An average Culver's location has 50-60 Team Members, with most being part-time.

This proposed location will be owned and operated by Dan and Alicia Braatz. They have been working with Culver's in many different roles since 1998. They began as teenagers in a local Culver's restaurant, grew into overall operations around 2004 and became franchisees in 2012. They currently own and operate the Culver's of Menomonee Falls, WI.

The proposed site layout is for a newly divided property at the corner of Mequon Road and Division Road. The restaurant site is approximately 1 acre with access to Mequon Road on the south border and Division Road on the east border of the property. It is drawn with 52 parking spaces as well as additional drive through parking stalls after the vehicle leaves the service window.

Project goal is for construction to begin after final approval and permitting processes have been completed. Estimated time for completion will vary based on material availability and weather, but the average Culver's restaurant construction timeline is approximately six months from ground break to opening for business.

Partners working on this site plan are Trio Engineering, Ollmann Ernest Martin Architects, Springfield Sign and Campbell Construction.

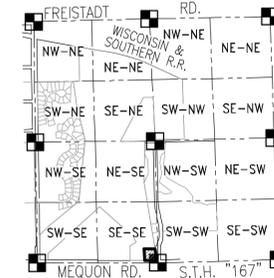
Culver's Menomonee Falls
Braatz13, LLC
W186N9581 Bancroft Dr
Menomonee Falls, WI 53051
(262)225-7718
culvers.com

CULVER'S - GERMANTOWN, WI

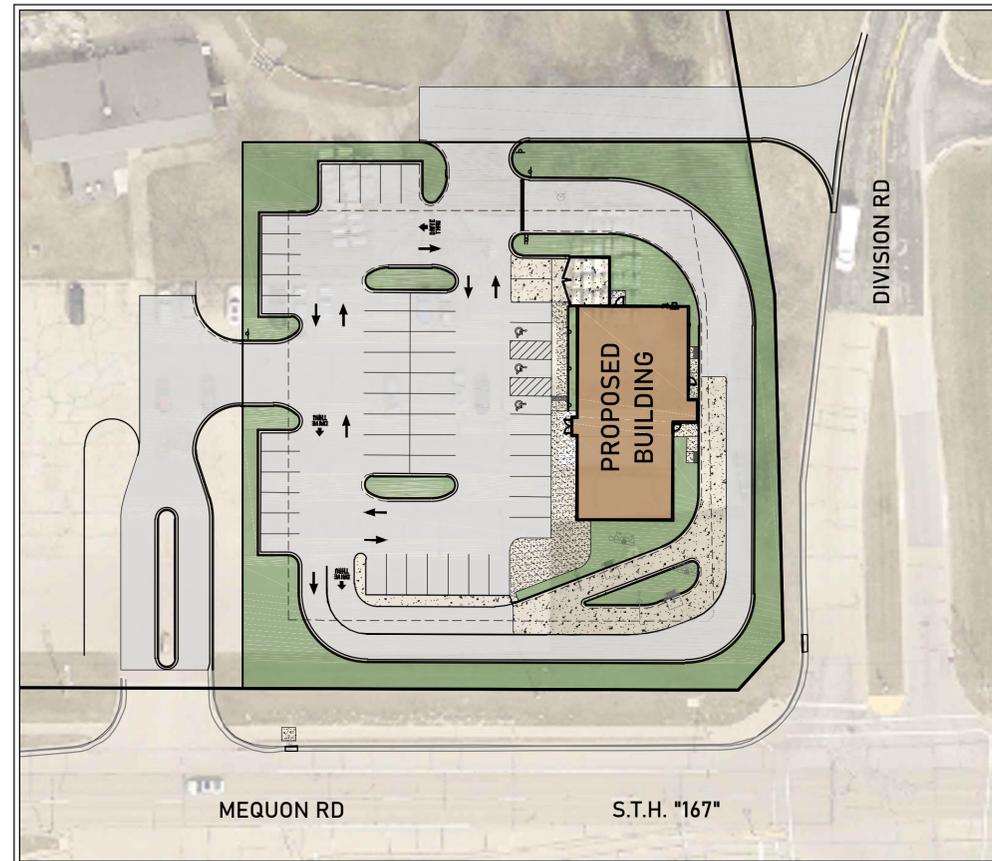
SITE DEVELOPMENT PLANS VILLAGE OF GERMANTOWN, WISCONSIN

GENERAL NOTES

- THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED.
 - STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, 6TH EDITION (SSWCW)
 - THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
 - WDNR STORMWATER RUNOFF TECHNICAL STANDARDS.
 - WISDOT PAL APPROVED EROSION CONTROL MEASURES LIST, LATEST EDITION.
 - VILLAGE OF GERMANTOWN STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
- EROSION CONTROL PLAN: PRIOR TO BEGINNING WORK, AN APPROVED EROSION CONTROL PLAN WILL BE PROVIDED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY IMPLEMENTING THE APPROVED PLAN.
- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY FLOOR, CURB OR PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (CALL DIGGERS HOTLINE AT 800-242-8511). COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- EXISTING UTILITY INFORMATION IS SHOWN FROM SURVEY WORK, FIELD OBSERVATIONS, AVAILABLE PUBLIC RECORDS, AND AS-BUILT DRAWINGS. EXACT LOCATIONS AND ELEVATIONS OF UTILITIES SHALL BE DETERMINED PRIOR TO INSTALLING NEW WORK. EXCAVATE TEST PITS AS REQUIRED.
- PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF PERFORMING ANY CONSTRUCTION.
- ALL TRENCHING SHALL BE PERFORMED ACCORDING TO OSHA STANDARDS.
- ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
- THE CONTRACTOR SHALL CLEAN ALL ADJACENT STREETS OF ANY SEDIMENT OR DEBRIS BY SWEEPING BEFORE THE END OF THE WORKING DAY OR AS REQUIRED BY THE VILLAGE OF GERMANTOWN.
- THE CONTRACTOR MUST AND IS REQUIRED TO NOTIFY THE VILLAGE OF GERMANTOWN SEWER AND WATER UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF WATER MAIN FILLING, WATER MAIN FLUSHING, WATER MAIN TESTING AND WATER MAIN CONNECTIONS. NO CONNECTION SHALL BE MADE TO THE EXISTING WATER SYSTEM UNTIL SAFE SAMPLES FROM THE NEW MAIN HAVE BEEN OBTAINED.



LOCALITY MAP
SCALE: 1" = 2000'



SITE PLAN
SCALE: 1" = 40'



LOCATION MAP
NOT TO SCALE

DEVELOPER:
BURGERS & BRAATZ PROPERTIES, LLC.
12455 WRAYBURN RD.
ELM GROVE, WI 53122
PHONE: 262-510-8057

ENGINEER / SURVEYOR:
TRIO ENGINEERING, LLC
4100 N. CALHOUN ROAD, SUITE 300
BROOKFIELD, WISCONSIN 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481

SHEET INDEX

CIVIL	
T1	- COVER SHEET
C1.0	- EXISTING SITE PLAN
C1.1	- PROPOSED SITE PLAN
C2.0	- GRADING & DRAINAGE PLAN
C2.1	- STORMWATER FACILITY DETAILS
C3.0	- EROSION CONTROL PLAN
C4.0	- UTILITY PLAN
C5.0	- CONSTRUCTION DETAILS
C5.1	- ADS DETAILS & SPECIFICATIONS



4100 N. CALHOUN RD., SUITE 300
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PROJECT:
CULVER'S - GERMANTOWN, WI
NWC OF MEQUON ROAD AND DIVISION ROAD
VILLAGE OF GERMANTOWN, WISCONSIN

REVISION HISTORY	
DATE	DESCRIPTION
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JULY 7, 2025

JOB NUMBER:
25-28-1265

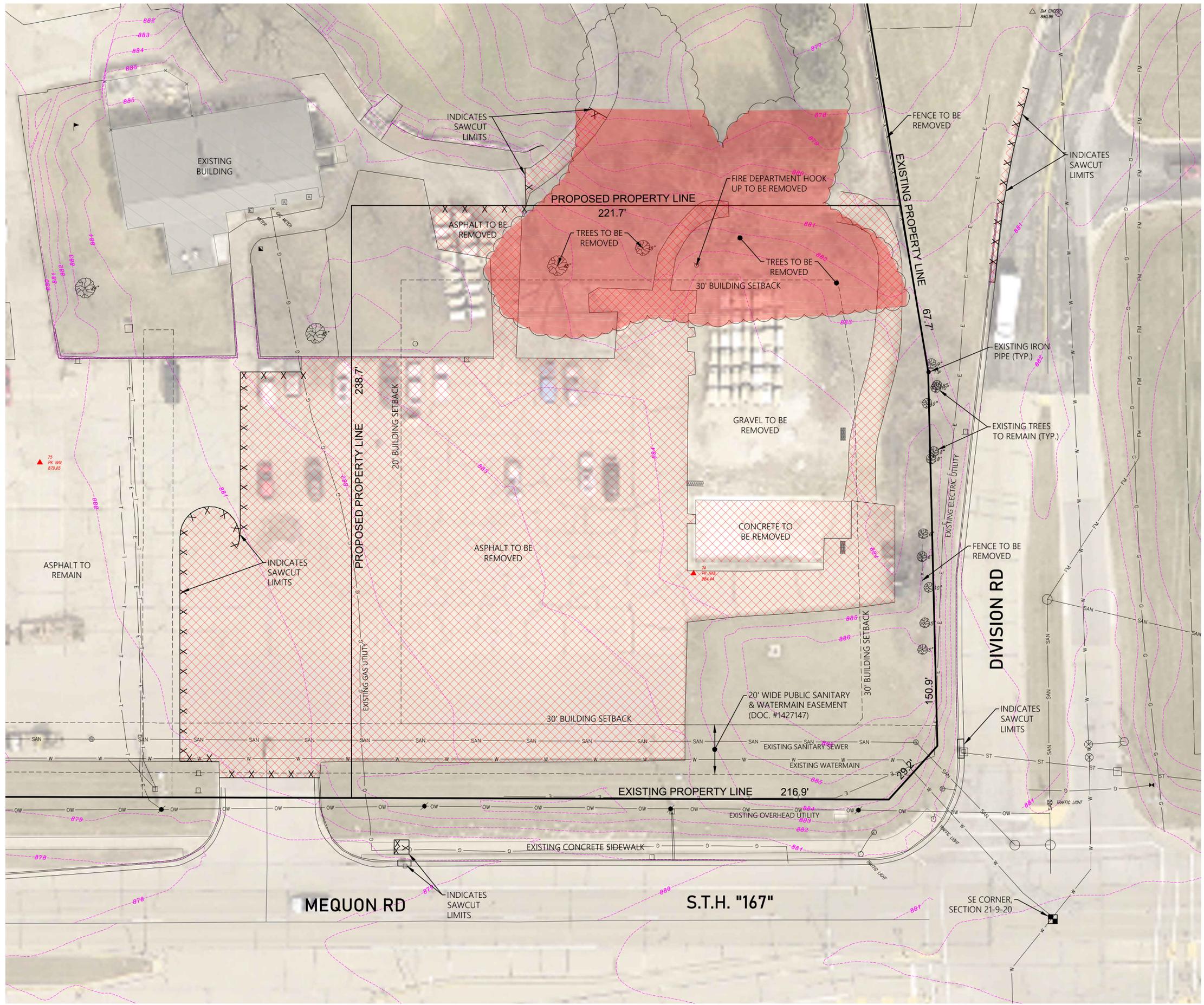
DESCRIPTION:
COVER SHEET

SHEET
T1

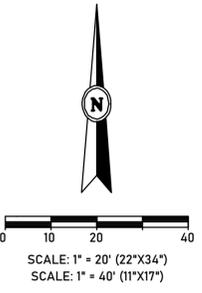
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LEGEND:

--- (dashed line)	- EXISTING CONTOUR
--- (solid line)	- EXISTING SANITARY SEWER
○ (circle)	- EXISTING SANITARY MANHOLE
--- (solid line)	- EXISTING WATER MAIN
⊕ (circle with cross)	- EXISTING HYDRANT
--- (solid line)	- EXISTING STORM SEWER
○ (circle)	- EXISTING STORM MANHOLE
--- (solid line)	- EXISTING STORM INLET
⊠ (square)	- EXISTING TRANSFORMER
⊠ (square)	- EXISTING ELECTRIC PEDESTAL
⊠ (square)	- EXISTING TELEPHONE PEDESTAL
⊠ (square)	- EXISTING CATV PEDESTAL
⊠ (square)	- EXISTING POWER POLE



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811 CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE. KNOW WHAT'S BELOW. **CALL BEFORE YOU DIG.**

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



4100 N. CALHOUN RD., SUITE 300
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: jpaulek@trioeng.com

PROJECT:
CULVER'S - GERMANTOWN, WI
NWC OF MEQUON ROAD AND DIVISION ROAD
VILLAGE OF GERMANTOWN, WISCONSIN

REVISION HISTORY

DATE	DESCRIPTION
7/7/2025	PRELIMINARY SUBMITTAL

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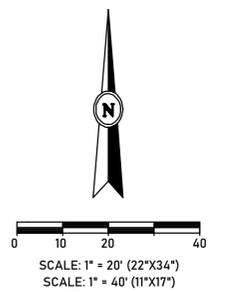
JOB NUMBER:
25-28-1265

DESCRIPTION:
EXISTING
SITE PLAN

SHEET
C1.0

SITE DATA	
ZONING:	PDD-27 (Blackstone Creek District)
BASE ZONING:	RD-2 & B-1 (One-Family/Two-Family Resident & Neighborhood Business)
SETBACKS:	
FRONT YARD:	30 FEET
SIDE YARD:	20 FEET
PROPOSED LOT AREA DATA:	
TOTAL LOT AREA:	55,432 S.F. (1.27 Acres)
LOT COVERAGE PERMITTED:	75.0% of Lot
LOT COVERAGE PROVIDED:	73.42% of Lot
BUILDING AREA:	4,403 S.F. (0.10 Acres) 7.94% of Lot
PAVEMENT AREA:	36,298 S.F. (0.83 Acres) 65.48% of Lot
OPEN SPACE AREA:	14,731 S.F. (0.34 Acres) 26.57% of Lot
	-12 Concurrent Employees
PARKING DATA:	
REQUIRED PARKING SPACES:	36 SPACES (1 SPACE/150 SF FLOOR + 1 SPACE/2 EMPLOYEES)
PROPOSED PARKING SPACES:	49 SPACES STANDARD SPACES: 49 SPACES HANDICAP SPACES: 3 SPACES
TOTAL SPACES:	52 SPACES

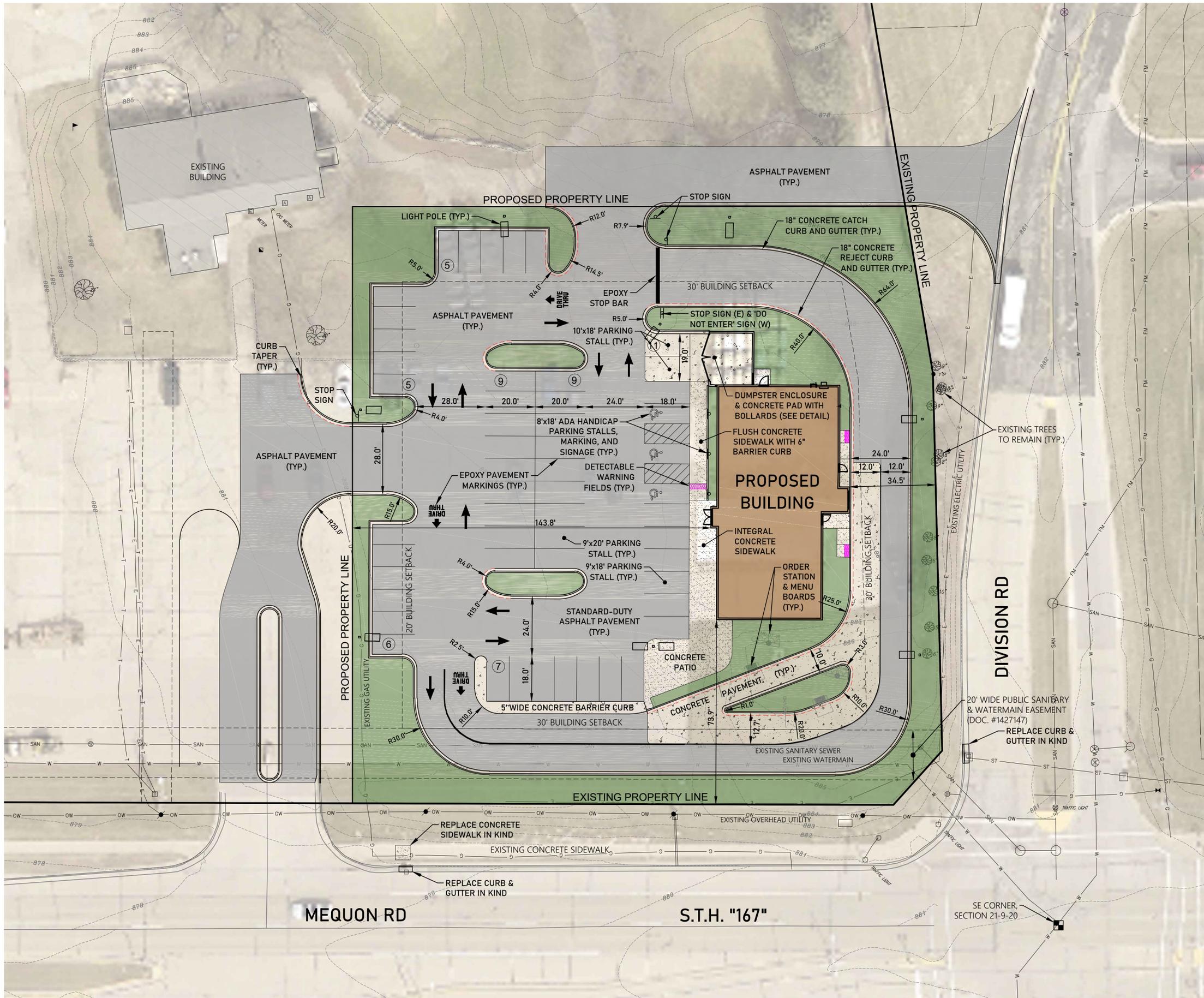
PAVEMENT NOTE:
UNLESS OTHERWISE SPECIFIED,
ALL PARKING STALLS SHALL BE
STANDARD DUTY PAVEMENT AND
ALL DRIVE AISLES SHALL BE
HEAVY DUTY PAVEMENT



LEGEND:	
	- EXISTING SANITARY SEWER
	- EXISTING SANITARY MANHOLE
	- EXISTING WATER MAIN
	- EXISTING HYDRANT
	- EXISTING STORM SEWER
	- EXISTING STORM MANHOLE
	- EXISTING STORM INLET
	- EXISTING TRANSFORMER
	- EXISTING ELECTRIC PEDESTAL
	- EXISTING TELEPHONE PEDESTAL
	- EXISTING CATV PEDESTAL
	- EXISTING POWER POLE
	- PROPOSED SANITARY SEWER
	- PROPOSED SANITARY MANHOLE
	- PROPOSED WATER MAIN
	- PROPOSED HYDRANT
	- PROPOSED WATER VALVE
	- PROPOSED STORM SEWER
	- PROPOSED STORM MANHOLE
	- PROPOSED STORM INLET
	- PROPOSED STORM END SECTION
	- PROPOSED REJECT CURB & GUTTER

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NOTE:
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PROJECT:
CULVER'S - GERMANTOWN, WI
NWC OF MEQUON ROAD AND DIVISION ROAD
VILLAGE OF GERMANTOWN, WISCONSIN

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DATE:
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JOB NUMBER:
25-28-1265

DESCRIPTION:
PROPOSED SITE PLAN

SHEET
C1.1

GRADING PLAN NOTES:

- IN ALL LOCATIONS WHERE ELEVATIONS ARE SHOWN AS ±, THE ELEVATION HAS BEEN DETERMINED USING INTERPOLATED EXISTING SURVEY GRADES. CONTRACTOR SHALL VERIFY ALL EXISTING MATCH GRADES PRIOR TO CONSTRUCTION OF ANY IMPROVEMENTS WITHIN THE PROXIMITY OF THESE INTERPOLATED GRADES. IF DISCREPANCIES ARE PRESENT CONTRACTOR SHALL REPORT THEM TO THE DESIGN ENGINEER FOR VERIFICATION OF PROPOSED SLOPES PRIOR TO INSTALLATION OF PROPOSED IMPROVEMENTS. DESIGN ENGINEER IS NOT RESPONSIBLE FOR SLOPES OF PROPOSED IMPROVEMENTS BASED ON THESE ± GRADES WITHOUT CONFIRMATION OF EXISTING ELEVATIONS AT TIME OF CONSTRUCTION.
- OVERALL SITE MUST BE GRADED TO WITHIN 4" OF FINAL GRADE PRIOR TO THE ELECTRICAL INSTALLATION.

"AMERICANS WITH DISABILITIES ACT" (ADA) MINIMAL REQUIREMENTS:

- GENERAL CONTRACTOR TO BECOME FAMILIAR WITH AND APPLY THE ADA MINIMAL REQUIREMENTS AND REPORT TO ENGINEER ANY DISCREPANCIES BEFORE CONSTRUCTION.
- THE MINIMUM CLEAR WIDTH OF AN ACCESSIBLE ROUTE PER CODE IS 36".
- ALL PROPOSED SIDEWALKS SHALL HAVE A MAXIMUM OF 2.0% CROSS SLOPE AND A MAXIMUM OF 5.0% RUNNING SLOPE.
- THE GENERAL CONTRACTOR/CONTRACTOR SHALL MEASURE THE SUBGRADE AND ACROSS FORMS PRIOR TO INSTALLATION OF ASPHALT OR CONCRETE IMPROVEMENTS TO ASSURE THE FINAL IMPROVEMENTS WILL MEET THESE MINIMAL ADA REQUIREMENTS. ANY DISCREPANCIES SHALL BE REPORTED TO THE CIVIL ENGINEER PRIOR TO INSTALLATION OF THE IMPROVEMENTS.

RAMPS

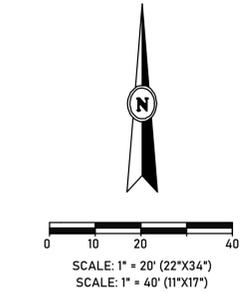
- AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 (5.00%) IS A RAMP AND SHALL COMPLY WITH THE RAMP REQUIREMENTS. AN ACCESSIBLE ROUTE MAY CROSS OPEN PAVEMENT OR FOLLOW A RAMP AS REQUIRED BY SITE-SPECIFIC CONDITIONS. THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE ACROSS OPEN PAVEMENT MUST NOT EXCEED 1:20 (5.00%), WITH A CROSS SLOPE NOT EXCEEDING 1:50 (2.00%). SLOPES EXCEEDING 1:20 (5.00%), BUT LESS THAN 1:12 (8.33%), CONSTITUTE RAMPS AND MUST CONFORM TO THE REQUIREMENTS FOR RAMP DESIGN (HANDRAILS, CURBS, LANDINGS, RISE AND RUN LIMITS, ETC.) AS DETAILED ON THE CIVIL AND ARCHITECTURAL PLANS. NO RAMP SHALL HAVE A RUNNING SLOPE EXCEEDING 1:12 (8.33%), NOR HAVE A CROSS SLOPE EXCEEDING 1:50 (2.00%).

CURB RAMPS

- A CURB RAMP SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.
- CURB RAMPS HAVE A MAXIMUM RISE OF 6", MAXIMUM SLOPE OF 1:12 (8.33%) AND DO NOT REQUIRE HANDRAILS.
- IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS, OR GUARDRAILS, IT SHALL HAVE FLARED SIDES; THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:10 (10.00%).

SPOT ELEVATION LABEL KEY:

TW = TOP OF WALK
 FL = FLOW LINE
 BC = BACK OF CURB
 R = RIM
 P = PAVEMENT
 HP = HIGH POINT
 LP = LOW POINT

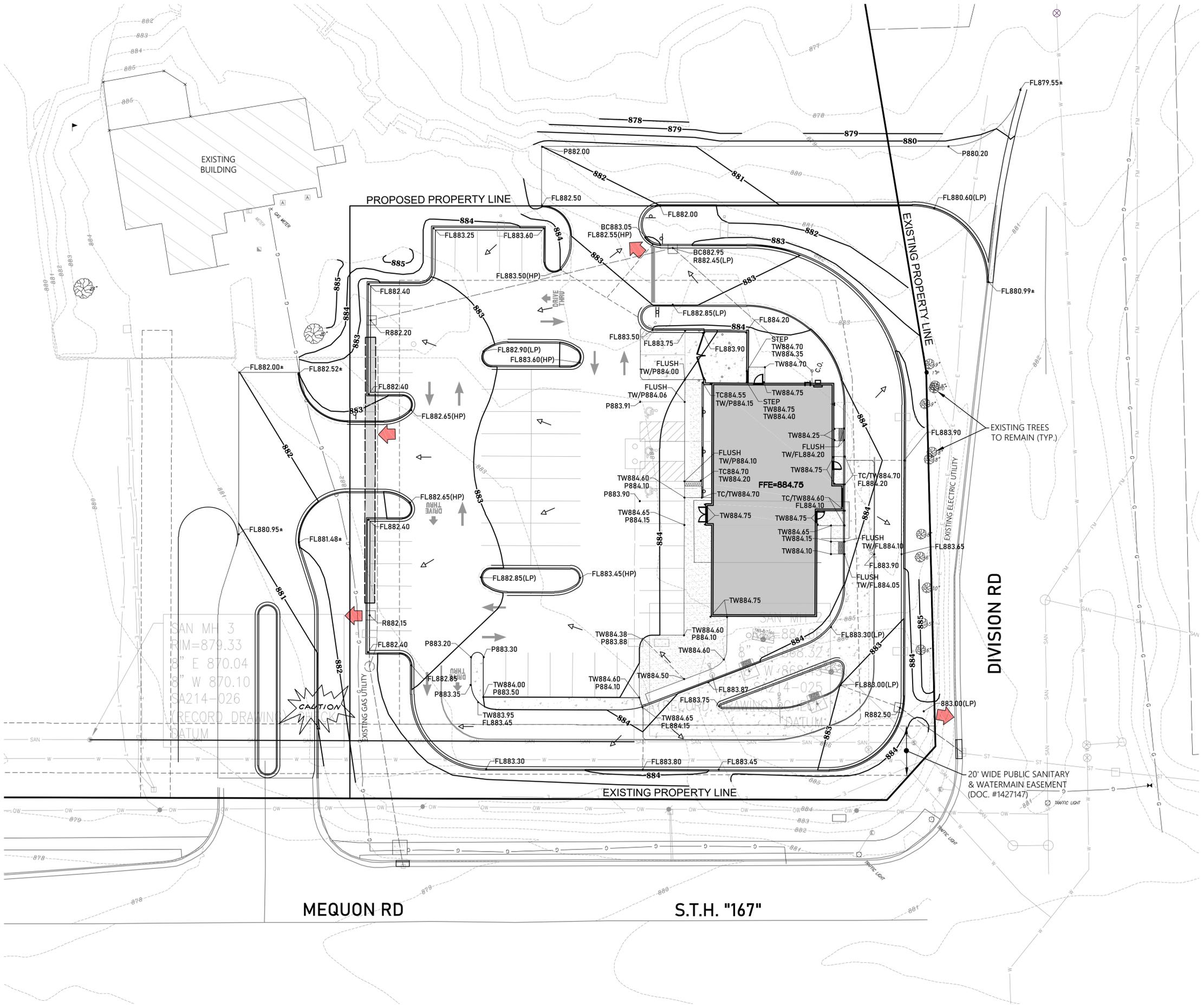


LEGEND:

- - - - - EXISTING CONTOUR
- 785** - - - - - PROPOSED CONTOUR
- P871.20 - PROPOSED SPOT ELEVATION
- - PROPOSED FLOW ARROW
- - - - - PROPOSED SPLIT POINT
- FFE 842.0** - FINISHED FLOOR ELEVATION
- ↔ - PROPOSED OVERLAND FLOW ROUTE

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 BROOKFIELD, WI 53005
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 EMAIL: j.pudliko@trioeng.com

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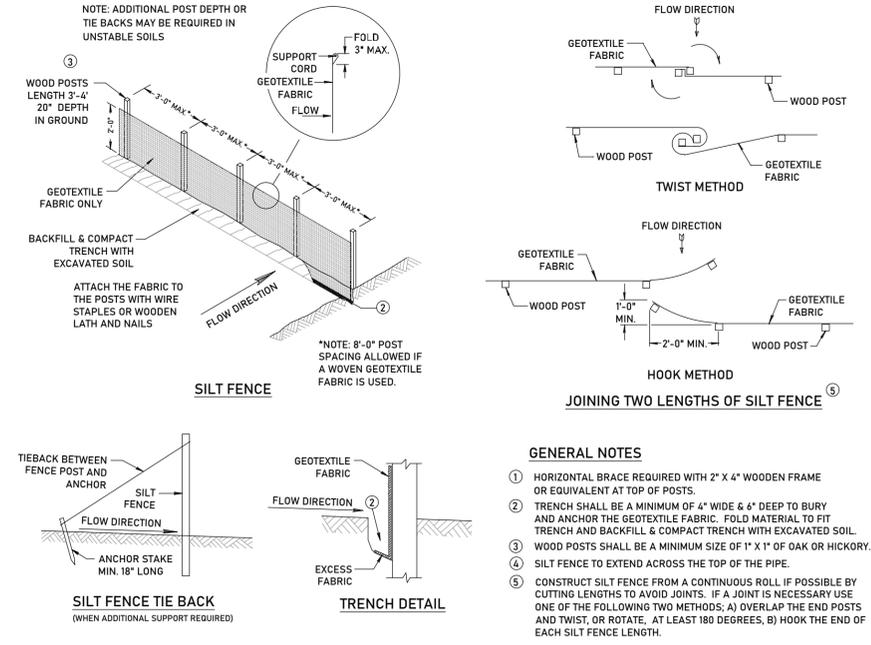
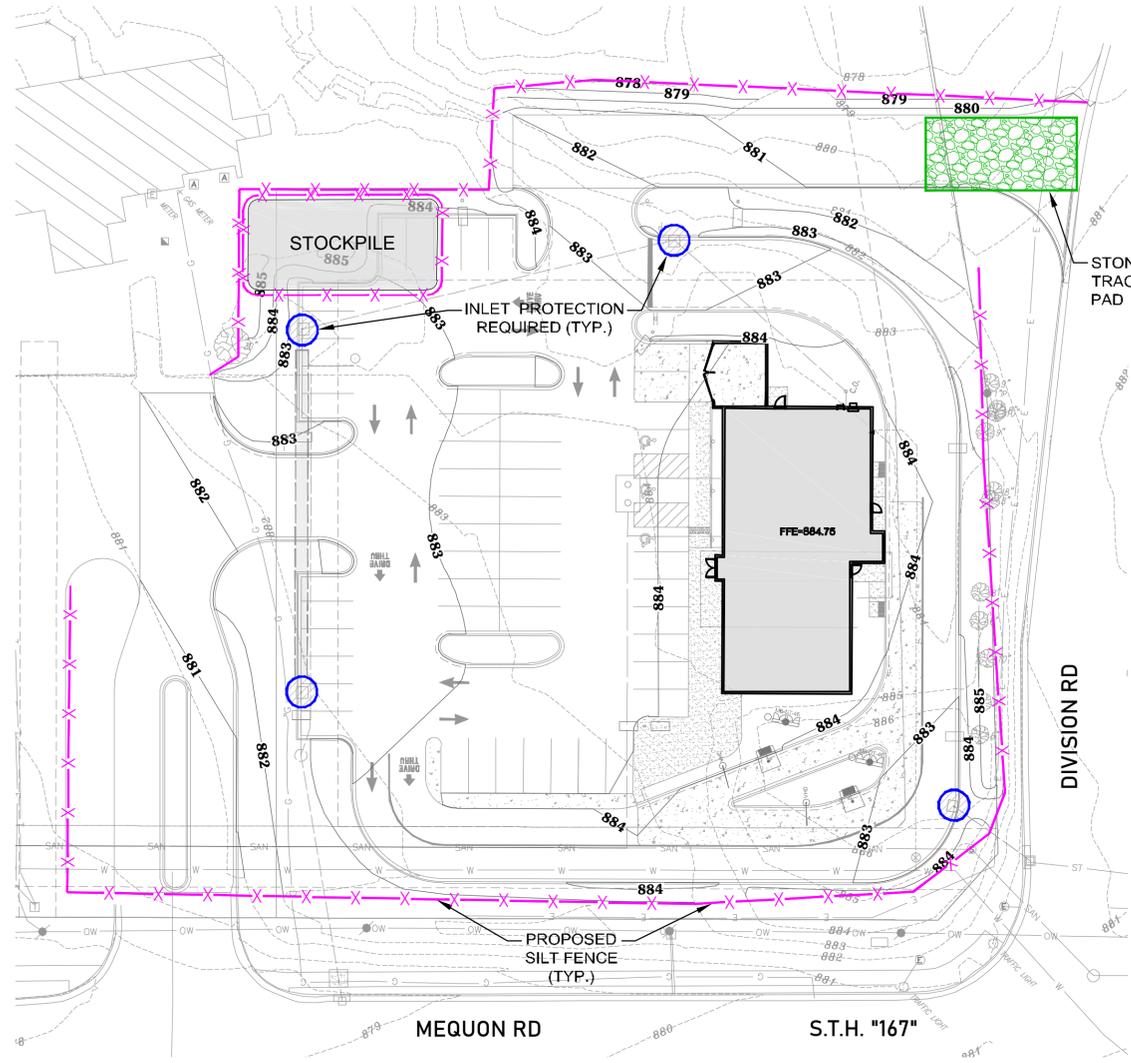
DATE:
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JOB NUMBER:
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DESCRIPTION:
 GRADING &
 DRAINAGE PLAN

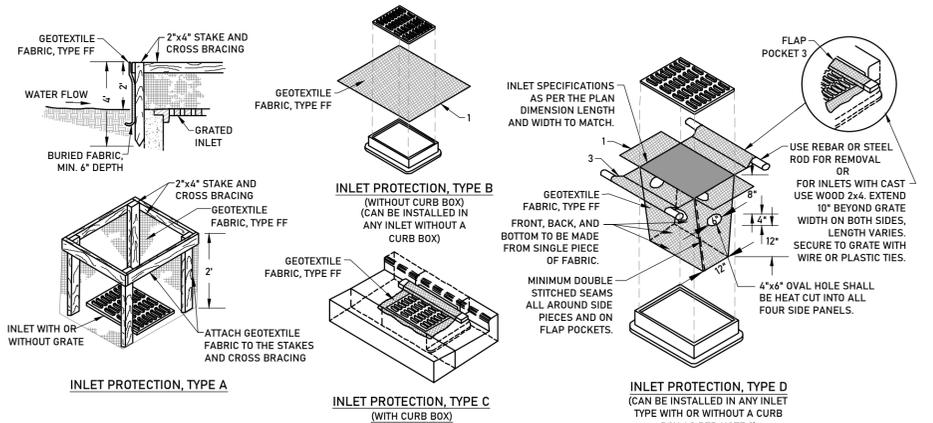
SHEET
C2.0

X:\2025\25-28-1265-CULVER'S\GERMANTOWN\CONSTRUCTION PLANS\CULVER'S\CIVIL\PLAN SET_22X34.DWG\1L PLAN SET_22X34.DWG

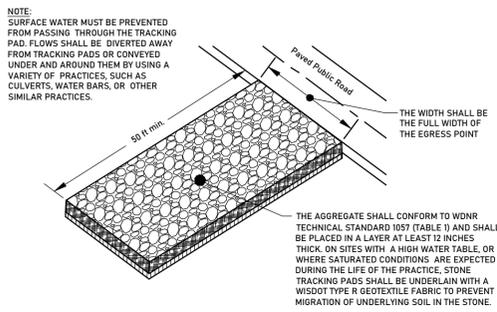


SILT FENCE INSTALLATION DETAIL
NO SCALE

- GENERAL NOTES**
- HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
 - TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
 - WOOD POSTS SHALL BE A MINIMUM SIZE OF 1" X 1" OF OAK OR HICKORY.
 - SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
 - CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



INLET PROTECTION DETAIL
NO SCALE



CONSTRUCTION ENTRANCE DETAIL
NO SCALE

GENERAL NOTES:

MANUFACTURER ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

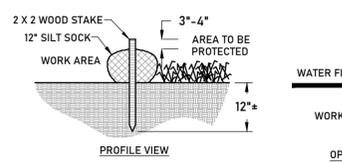
- FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES:

TYPE B & C TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLES OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CROWN THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



- NOTES:**
- ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS
 - REFER TO MANUFACTURERS AND/OR SUPPLIERS SPECIFICATIONS FOR INSTALLATION RECOMMENDATIONS.
 - ACTUAL LOCATION MAY BE FIELD ADJUSTED TO MINIMIZE DISTURBANCE TO EXISTING VEGETATION.
 - INSTALL EVERY 200' OR 2' GRADE DROP IN SWALES.

STRAW WATTLE DITCH CHECK DETAIL
NO SCALE

TEMPORARY DEWATERING GEOTEXTILE BAG

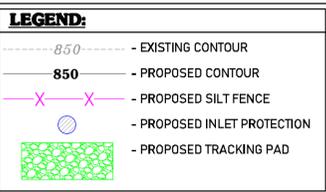
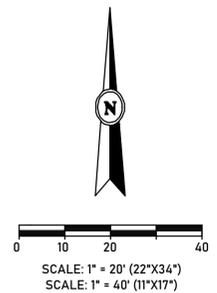
- IF DEWATERING IS REQUIRED, A GEOTEXTILE DEWATERING BAG MEETING THE SPECIFICATIONS IN THE TABLE TO THE RIGHT SHALL BE UTILIZED AS STATED ON THE EROSION CONTROL PLAN.
- REFER TO WDNR TECHNICAL STANDARDS 1061 AND MANUFACTURER'S REQUIREMENTS FOR INSTALLATION AND MAINTENANCE REQUIREMENTS. CONTRACTOR MAY USE THRACE-LINQ, INC 275EX GEOTEXTILE BAG, OR FUNCTIONAL EQUIVALENT TO MEET TECHNICAL STANDARD REQUIREMENTS. CONTRACTOR MAY INSTALL HAY BALES AROUND DEWATERING BAG FOR STABILIZATION AS DICTATED BY SITE CONDITIONS.
- MAX FLOW RATE SHALL NOT EXCEED 70GPM

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

LATE SEASON STABILIZATION NOTES:

THE OBJECTIVE IS TO STABILIZE THE SITE WITH 70% VEGETATIVE COVERAGE OF ALL PVIOUSLY DISTURBED AREAS BEFORE THE END OF THE GROWING SEASON. THIS WILL BE DONE BY SEEDING OF ALL DISTURBED AREAS WITH PERMANENT VEGETATION BY SEPTEMBER 15, 2022. IF THIS DEADLINE IS MISSED, THEN STABILIZATION WILL BE COMPLETED BY:

- SEEDING OF ALL DISTURBED AREAS WITH TEMPORARY SEED MIX (OATS, WINTER WHEAT, ANNUAL RYE) BY OCTOBER 15. PERMANENT SEED MIX MUST THEN BE IMPLEMENTED BY JUNE 1 OF THE FOLLOWING YEAR.
- IF THE OCTOBER 15 DEADLINE IS MISSED, COVERAGE OF ALL DISTURBED AREAS BY NOVEMBER 1 WITH:
 - TOPSOIL, SEED, AND THE MATERIAL CALLED FOR ON THIS PLAN, WHERE TOPSOIL, SEED, AND EROSION CONTROL MATTING IS CALLED FOR.
 - TOPSOIL, SEED, AND TYPE A SOIL STABILIZER FROM THE WDOT PRODUCT ACCEPTABILITY LIST OR OTHER METHOD APPROVED BY THE CITY ENGINEER FOR ALL AREAS WHERE SEED, TOPSOIL, AND MULCH IS CALLED FOR ON THIS PLAN.
- IF THE NOVEMBER 1 DEADLINE HAS BEEN MISSED, AND THE CITY ENGINEER HAS DETERMINED THAT IT IS INFEASIBLE TO PLACE TOPSOIL, THE PERMIT APPLICANT SHALL:
 - APPLY TYPE A SOIL STABILIZER FROM THE WDOT PRODUCT ACCEPTABILITY LIST TO ALL DISTURBED AREAS.
 - INSTALL DITCH CHECKS IN ALL DITCHES WITH SLOPE GREATER THAN 0.5% AT INTERVALS SUCH THAT THE TOP OF THE DOWNHILL DITCH CHECK IS AT THE ELEVATION OF THE FOOT OF THE UPHILL DITCH CHECK. DITCH CHECKS SHALL BE EITHER:
 - TRIANGULAR FOAM-CORE
 - STONE INSTALLED PER THE WDNR TECHNICAL STANDARD
 - COMPOST-FILLED TUBES, OR
 - A COMPARABLE PRODUCT AS APPROVED BY THE CITY ENGINEER.



811 CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE. KNOW WHAT'S BELOW. **CALL BEFORE YOU DIG.**

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

EROSION CONTROL NOTES:

- THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
- EROSION CONTROL PLAN: PRIOR TO BEGINNING WORK, THE CONTRACTOR MAY BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN, DETAILING SPECIFIC MEASURES THAT WILL BE USED IN THE VARIOUS STAGES OF CONSTRUCTION FOR APPROVAL BY THE ENGINEER.
- IMPLEMENTATION: THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL AFTER INITIAL EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
- EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - DIVERT UPSTREAM RUNOFF FROM FLOWING THROUGH CONSTRUCTION SITE.
 - PROTECT DOWNSTREAM/ADJACENT WATERWAYS/WETLANDS WITH SILT FENCE.
 - DELAY STRIPPING TOPSOIL UNTIL REQUIRED FOR CONSTRUCTION.
 - PLACE SILT FENCE OR EROSION CONTROL BALES IN DITCHES AND OTHER DRAINAGE WAYS TO COLLECT SEDIMENT AND TO SLOW THE VELOCITY OF RUNOFF.
 - MAINTAIN EXISTING SEDIMENT BASIN AS DICTATED BY SITE CONDITIONS. PROTECT STORM SEWER INLETS AND THE UPSTREAM END OF CULVERTS WITH SILT FENCE OR EROSION CONTROL BALES.
 - PROMPT REMOVAL OF EXCAVATED MATERIAL.
 - PROPER STORAGE OF BACKFILL AND BEDDING MATERIALS INCLUDING PLACING SILT FENCE OR EROSION CONTROL BALES ON THE DOWNSLOPE SIDES OF SPOIL PILES.
 - CONSTRUCTION OF TRACKING PAD TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ROADWAYS.
 - PROMPT (SAME DAY) CLEANUP OF MATERIAL TRACKED ONTO ADJACENT STREETS.
 - TIMELY RESTORATION OF DAMAGE SURFACE AREAS.
 - ALL AREAS THAT WILL REMAIN DISTURBED AFTER OCTOBER 15, MUST BE TEMPORARILY SEED AS OF THAT DATE.
 - TEMPORARY EROSION CONTROL MEASURES.
 - THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL MEASURES, WHERE EROSION IS LIKELY TO BE A PROBLEM, PRIOR TO BEGINNING WORK ON THOSE SECTION(S) OF THE PROJECT. TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL AFTER PERMANENT EROSION CONTROL, SUCH AS SEEDING OR SODDING, HAS BEEN ESTABLISHED.
 - IN THE EVENT THE PERMANENT EROSION CONTROL MEASURES ARE NOT FULLY IMPLEMENTED IN CURRENT CONSTRUCTION SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY TEMPORARY EROSION CONTROL MEASURES UNTIL AFTER PERMANENT MEASURES HAVE BEEN COMPLETED IN THE FOLLOWING YEAR.
 - ALL DISTURBANCE AREAS THAT REMAIN INACTIVE FOR SEVEN DAYS OR LONGER SHALL RECEIVE TEMPORARY SEEDING.
 - TRENCH DEWATERING SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS.
 - INSTALL SILT FENCE IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS.
 - ALL RIP RAP AT PIPE OUTLETS SHALL BE 3"x5" MEDIUM RIP RAP OVER TYPE R FABRIC PER WDOT SPECIFICATIONS UNLESS OTHERWISE DESIGNATED.
 - EROSION CONTROL INSPECTION AND MAINTENANCE
 - INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER SITE RECEIVES 0.5" OF RAIN IN A 24-HOUR PERIOD DURING CONSTRUCTION.
 - REPAIR OR REPLACE EROSION CONTROLS THAT ARE DAMAGED OR FAILING.
 - ALL AREAS TO BE SEED AND MULCHED SHALL USE WDOT SEED MIXTURE NO. 20. MULCH SHALL APPLIED PER WDOT SPECIFICATIONS USING METHOD B FOR PLACEMENT.
 - DIVERSION BERMS SHALL BE CONSTRUCTED TO BLOCK AND REDIRECT RUNOFF AS INDICATED ON THE PLAN. SIDE SLOPES SHALL NOT EXCEED 2:1; TOP WIDTH SHALL BE 2' MIN.; BERM HEIGHT SHALL BE 1.5' MIN.
 - DUST CONTROL - CONTRACTOR SHALL PREVENT EXCESSIVE DUST FROM LEAVING THE CONSTRUCTION SITE THROUGH CONSTRUCTION PHASING AND TIMELY STABILIZATION OR THE USE OF BMPs SUCH AS SITE WATERING AND MULCH - ESPECIALLY WITH VERY DRY OR FINE SANDY SOILS.
 - TO OBTAIN CITY STORM WATER PERMIT AND PERFORM WEEKLY EROSION CONTROL INSPECTIONS, AND SUBMIT INSPECTIONS TO CITY EROSION CONTROL INSPECTOR. AT THE END OF PROJECT, COORDINATE PERMIT TERMINATION WITH CITY EROSION CONTROL INSPECTOR.

CONSTRUCTION SEQUENCE PLAN

- FALL 2025: INSTALL TRACKING PAD AND SILT FENCE AROUND THE PERIMETER OF THE SITE.
- FALL 2025: CLEAR AND GRUB SITE.
- FALL 2025: STRIP TOPSOIL AND STOCKPILE INITIAL TOPSOIL AT CENTER OF SITE. SEED AND STABILIZE STOCKPILES IMMEDIATELY UPON COMPLETION OF STOCKPILING.
 - ALL EXPOSED SOIL AREAS NOT DISTURBED FOR UP TO SEVEN (7) DAYS MUST BE IMMEDIATELY RESTORED WITH SEED AND MULCH.
- FALL 2025/SPRING 2026: ROUGH GRADE SITE.
- FALL 2025/SPRING 2026: BEGIN BUILDING CONSTRUCTION.
- FALL 2025/SPRING 2026: INSTALL SANITARY AND WATER SERVICES. COMPLETE ALL TESTING AND CONTACT CITY PRIOR TO CONNECTING TO EXISTING MAINS. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH ROUGH GRADING ONCE THE UTILITY AREAS HAVE BEEN GRADED TO SUBGRADE.
- FALL 2025/SPRING 2026: INSTALL STORM SEWER AND ASSOCIATED EROSION CONTROL MEASURES PER EROSION CONTROL PLAN. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH SANITARY AND WATER SERVICE INSTALLATION.
- SPRING/SUMMER 2026: FINISH GRADE THE SITE. NOTE THAT THIS STEP MAY OCCUR CONCURRENT WITH STORM SEWER INSTALLATION.
- SPRING/SUMMER 2026: INSTALL STONE BASE COURSE, CONSTRUCT CURB, AND PLACE BINDER COURSE PAVEMENT. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH FINISH GRADING.
- SUMMER 2026: RESPREAD TOPSOIL AND PLACE SEED, MULCH, MATTING AND OTHER SITE STABILIZERS AS NEEDED. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH FINISH GRADING AND PARKING LOT CONSTRUCTION. ALSO NOTE THAT ANY AREAS, SUCH AS POND SLOPES, THAT ARE FINISH GRADED AND TOPSOILED SHALL BE SEED, MULCHED AND/OR MATTED IMMEDIATELY AFTER TOPSOIL IS PLACED.
- SUMMER/FALL 2026: REMOVE REMAINING CONSTRUCTION EROSION CONTROL MEASURES AFTER SITE IS STABILIZED (SUBSTANTIALLY VEGETATED) AND ALL CONSTRUCTION IS COMPLETE.



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PROJECT:
CULVER'S - GERMANTOWN, WI
NWC OF MEQUON ROAD AND DIVISION ROAD
VILLAGE OF GERMANTOWN, WISCONSIN

REVISION HISTORY

DATE	DESCRIPTION
7/7/2025	PRELIMINARY SUBMITTAL

DATE:
JULY 7, 2025

JOB NUMBER:
25-28-1265

DESCRIPTION:
EROSION CONTROL PLAN

SHEET

C3.0

X:\2025\25-28-1265-CULVERS-GERMANTOWN\BRANDINGS\CONSTRUCTION PLANS\CULVERS\CIVIL\PLAN SET_22X34.DWG / L PLAN SET_22X34.DWG

UTILITY NOTES

SANITARY SEWER

- ALL PVC SEWER PIPE SHALL MEET THE REQUIREMENTS SET FORTH IN SECTION 8.10.0 (SSWCW).
- ALL SANITARY SEWER LATERALS (OUTSIDE OF BUILDINGS) SHALL BE MADE OF GASKETED PVC FITTINGS MEETING ASTM D-3034, SDR 35.
- ALL SANITARY SEWER LATERALS TO CONNECT TO SANITARY MAIN VIA WYE OF 0.81° VERTICAL RISE.
- TRACER WIRE IS REQUIRED FOR ALL SANITARY LATERALS. (SEE NOTE BELOW).

WATERMAIN

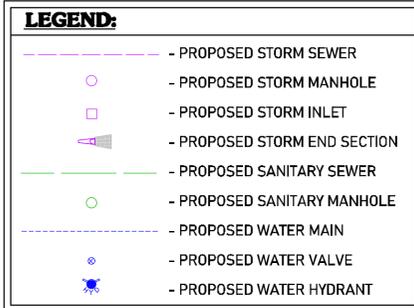
- ALL PVC WATERMAIN CONSTRUCTED AS PART OF THIS PLAN SHALL BE PVC, C-900, CLASS 150 (DR18), UNLESS OTHERWISE NOTED. PVC PIPE SHALL HAVE PUSH-ON JOINTS WITH RUBBER GASKET.
- HYDRANTS SHALL BE SET AT 2 FT. BEHIND THE BACK OF CURB, WITH THE NOZZLE ELEVATION 2" ABOVE TOP OF CURB.
- HYDRANT NOZZLE TO BE 5" THREADED STEAMER CONNECTION.
- ALL WATERMAINS (AND SERVICES) CALLED FOR ON THESE PLANS ARE TO BE INSTALLED WITH CLASS "B" BEDDING AS SPECIFIED IN CH. 4.3.0, LAYING OF WATERMAIN, AND FILE NO. 36, PART VII (SSWCW). ALL WATERMAIN INSTALLED WITHIN THE CITY OF WAUKESHA RIGHT OF WAY SHALL BE BEDDED IN SAND.
- TRACER WIRE IS REQUIRED FOR ALL WATERMAIN AND LATERALS. (SEE NOTE BELOW).

TRACER WIRE NOTE

- CONTRACTOR SHALL INSTALL PLASTIC COATED TRACER WIRE (10 TO 14 GAUGE SOLID COPPER, OR COPPER COATED STEEL WIRE) PER COMM 382.30(1)(H). PLASTIC WIRE MAY BE TAPED TO PLASTIC DRAIN PIPE. IF ATTACHED, THE TRACER SHALL BE SECURED EVERY 6 TO 20 FEET AND AT ALL BENDS. TRACER WIRE SHALL HAVE ACCESS POINTS AT LEAST EVERY 300 FEET.

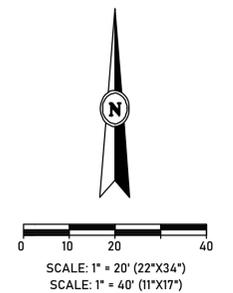
TRENCH BACKFILL

- SPOIL BACKFILL MAY BE USED FOR UTILITY TRENCHES CONTINGENT ON TESTING AND APPROVAL BY THE VILLAGE OF GERMANTOWN. ALL SPOIL BACKFILL TO BE USED MUST MEET THE STATE OF WISCONSIN SPECIFICATIONS FOR UTILITY BACKFILL.
- BACKFILL WITHIN 5' OF PUBLIC RIGHT OF WAY SHALL BE SLURRY.



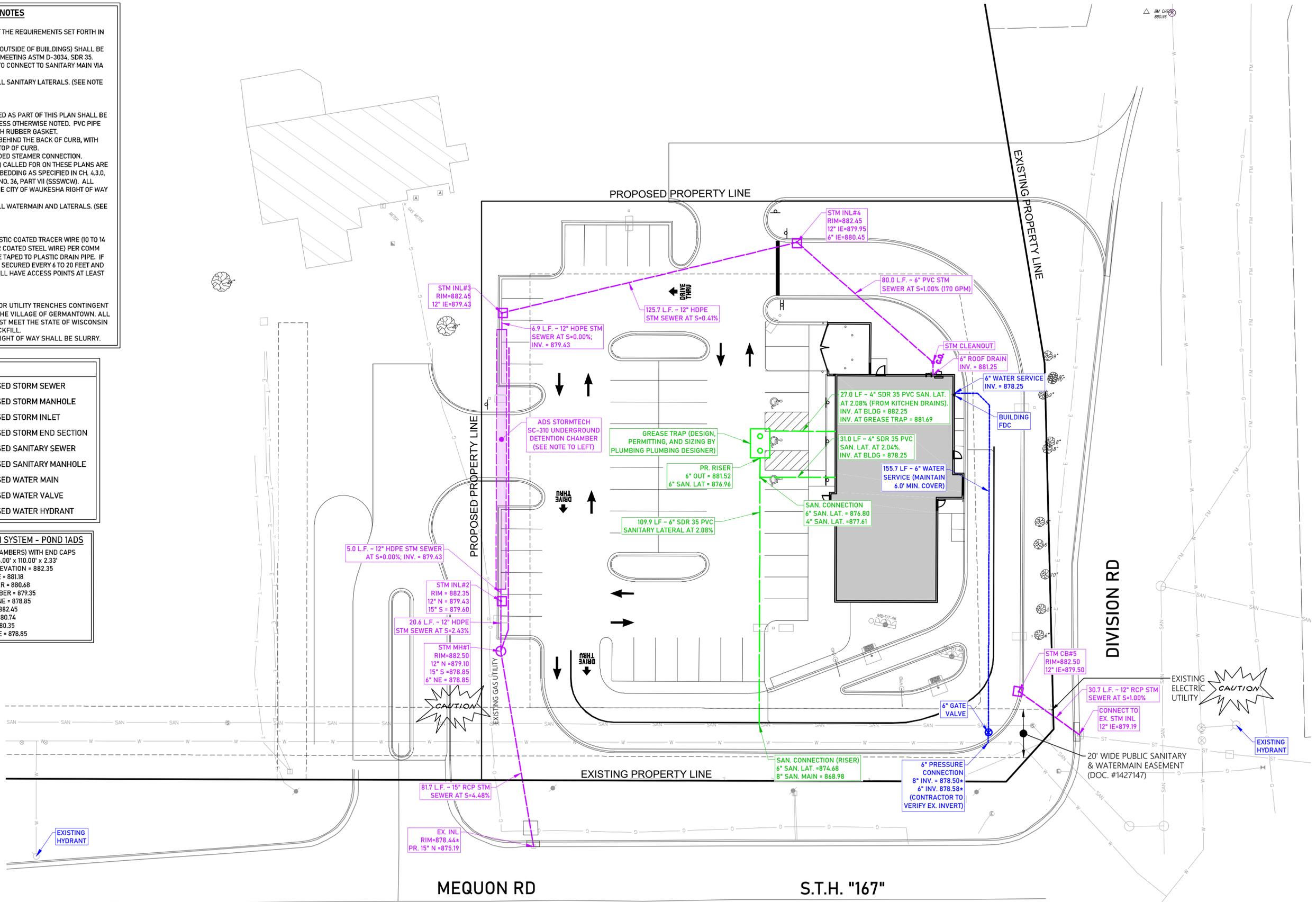
UNDERGROUND DETENTION SYSTEM - POND TADS

ADS STORMTECH MC-310 (15 CHAMBERS) WITH END CAPS
 STONE ENCASUREMENT = 6.00' x 110.00' x 2.33'
 LOWEST PAVEMENT ELEVATION = 882.35
 TOP OF STONE = 881.18
 TOP OF CHAMBER = 880.68
 BOTTOM OF CHAMBER = 879.35
 BOTTOM OF STONE = 878.85
 100-YEAR = 882.45
 10-YEAR = 880.74
 2-YEAR = 880.35
 15" OUTLET PIPE = 878.85



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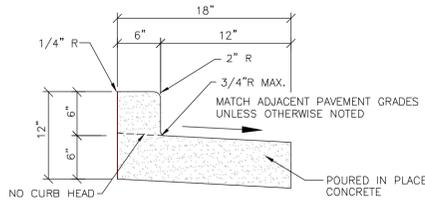
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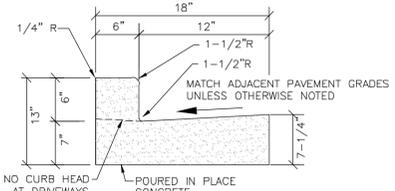
JOB NUMBER:
 25-28-1265

DESCRIPTION:
 UTILITY PLAN

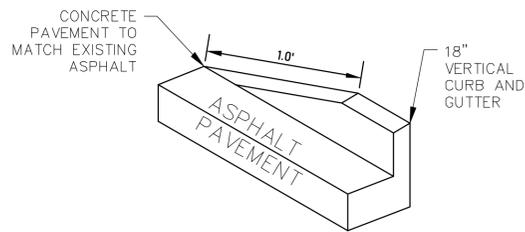
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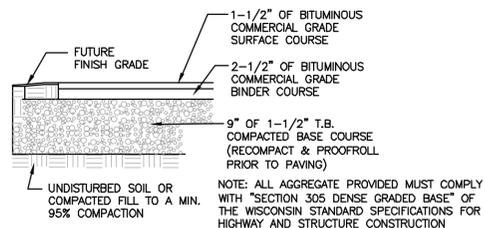
18" REJECT CURB & GUTTER DETAIL
NO SCALE



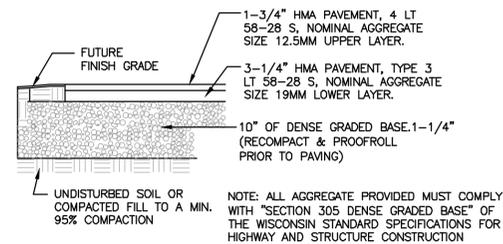
18" CONCRETE CATCH CURB & GUTTER
NO SCALE



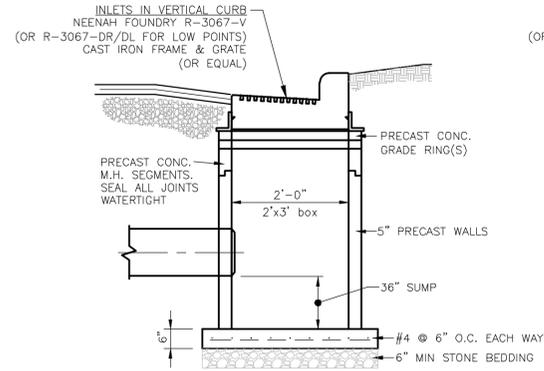
CURB TAPER DETAIL
NO SCALE



STANDARD-DUTY ASPHALT PAVING DETAIL
NO SCALE
NOTE: STANDARD-DUTY ASPHALT TO BE INSTALLED IN PARKING STALLS

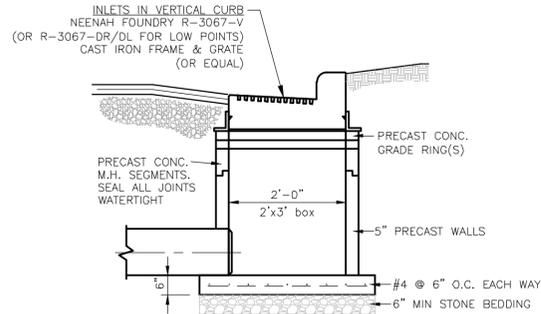


HEAVY DUTY ASPHALT PAVING DETAIL
NO SCALE
NOTE: HEAVY-DUTY ASPHALT TO BE INSTALLED IN DRIVE AISLES



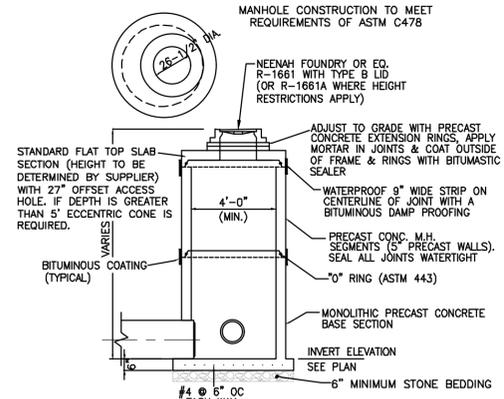
- NOTES:**
- EZ-STICK RUBBER GASKET OR APPROVED EQUAL SHALL BE PLACED AT ALL JOINTS BETWEEN ADJUSTING RINGS.
 - MINIMUM OF 2", MAXIMUM OF 6" OF ADJUSTING RINGS.
 - CLEAN UNDERSIDE OF ADJUSTING RINGS OR CAST IRON FRAME AND SET IN PLACE.
 - TUCK POINT MORTAR INTO ANNULAR CRACK AND BACK PLASTER INSIDE AND OUTSIDE OF JOINTS.
 - MEET REQUIREMENTS OF ASTM C478.

STORM SEWER CATCH BASIN DETAIL
NO SCALE



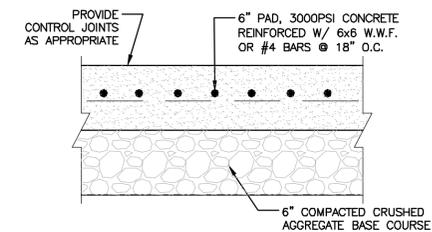
- NOTES:**
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 - MINIMUM OF 2", MAXIMUM OF 6" OF ADJUSTING RINGS.
 - CLEAN UNDERSIDE OF ADJUSTING RINGS OR CAST IRON FRAME AND SET IN PLACE.
 - TUCK POINT MORTAR INTO ANNULAR CRACK AND BACK PLASTER INSIDE AND OUTSIDE OF JOINTS.
 - MEET REQUIREMENTS OF ASTM C478.

STORM SEWER CURB INLET DETAIL
NO SCALE

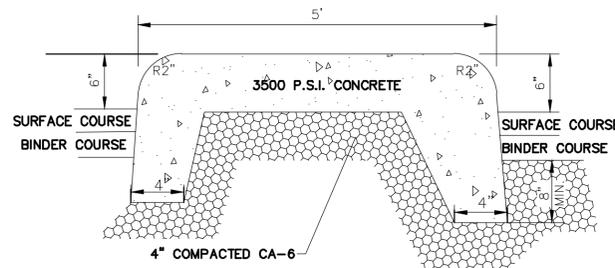


- NOTES:**
- EZ-STICK RUBBER GASKET OR APPROVED EQUAL SHALL BE PLACED AT ALL JOINTS BETWEEN ADJUSTING RINGS.
 - MINIMUM OF 2", MAXIMUM OF 14" OF ADJUSTING RINGS.
 - CLEAN UNDERSIDE OF ADJUSTING RINGS OR CAST IRON FRAME AND SET IN PLACE.
 - TUCK POINT MORTAR INTO ANNULAR CRACK AND BACK PLASTER INSIDE AND OUTSIDE OF JOINTS.
 - MEET REQUIREMENTS OF ASTM C478.

STORM MANHOLE DETAIL
NO SCALE

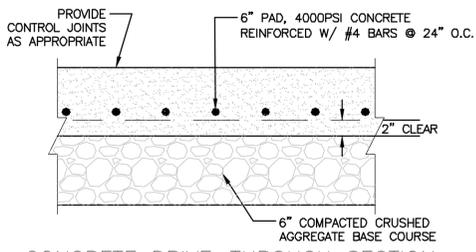


CONCRETE DUMPSTER PAD SECTION
NO SCALE

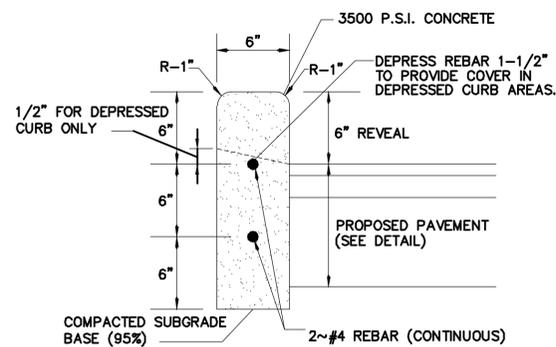


- NOTES:**
- EXPANSION JOINTS AT 50' ON CENTER AND CONTRACTION JOINTS AT 25' ON CENTER.

WIDE BARRIER CURB

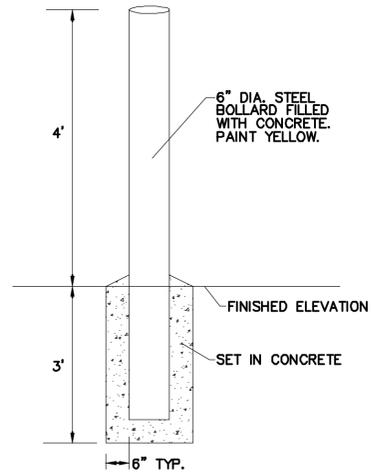


CONCRETE DRIVE-THROUGH SECTION
NO SCALE

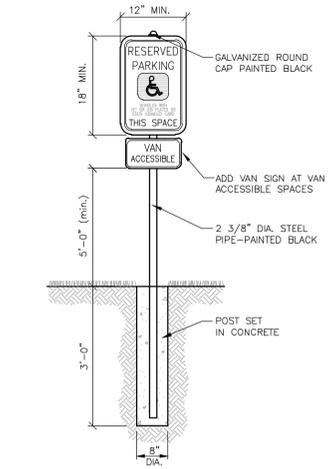


- NOTES:**
- PROVIDE 1/2" EXPANSION JOINTS EVERY 50' O.C.
 - PROVIDE HAND TOOLED CONTRACTION JOINTS EVERY 10' O.C.

TYPE 'C' BARRIER CURB



BOLLARD



HANDICAP SIGNAGE DETAIL
NO SCALE



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JOB NUMBER:
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DESCRIPTION:
CONSTRUCTION
DETAILS

SHEET

C5.0

X:\2025\25-28-1265-CULVER'S\GERMANTOWN\DRAWINGS\CONSTRUCTION\PLANS\CULVER'S\CIVIL\PLAN SET_22X34.DWG\1.L PLAN SET_22X34.DWG

UNDERGROUND DETENTION SYSTEM NOTE:

- THIS DETAIL FOR REFERENCE ONLY. CONTRACTOR TO OBTAIN DESIGN DRAWING FROM MANUFACTURER THAT MEETS ESTABLISHED DESIGN REQUIREMENTS AS LAYED OUT IN THIS PLAN.



SC-310 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-310.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 min) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 325 LBS/FT², THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.5 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
- MANIFOLD SIZE TO BE DETERMINED BY THE SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

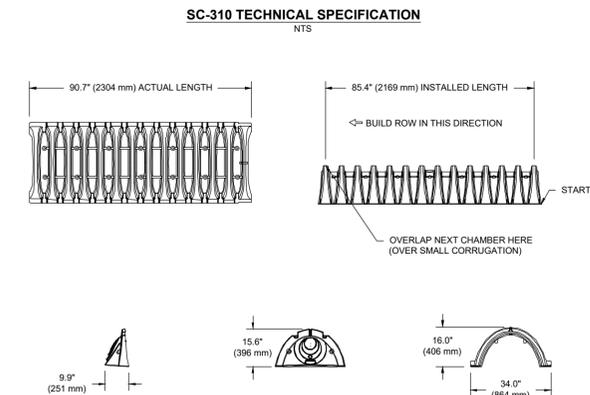
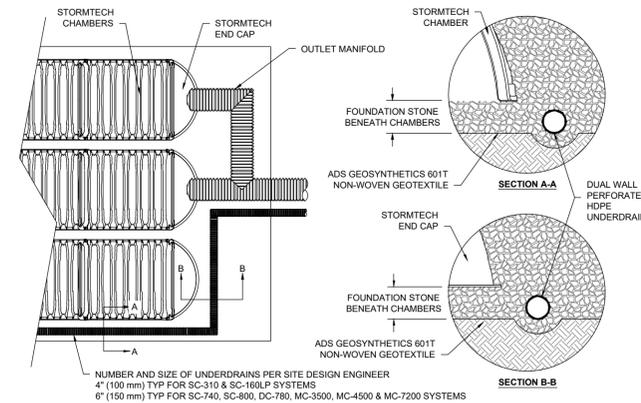
- STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOTTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 3" (75 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m ³)
MINIMUM INSTALLED STORAGE*	29.34 CUBIC FEET	(0.83 m ³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (150 mm) ABOVE AND BELOW CHAMBER; 3" (75 mm) BETWEEN CHAMBERS

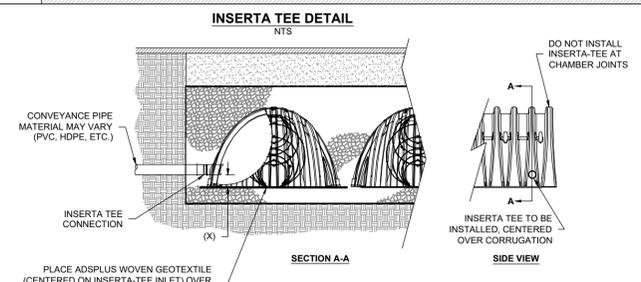
PART #	STUB	B	C
SC310EPE06TPC	6" (150 mm)	5.8" (147 mm)	---
SC310EPE08BPC	---	---	0.6" (15 mm)
SC310EPE08TPC	8" (200 mm)	3.5" (89 mm)	---
SC310EPE08BPC	---	---	0.6" (15 mm)
SC310EPE10TPC	10" (250 mm)	1.4" (36 mm)	---
SC310EPE10BPC	---	---	0.7" (18 mm)
SC310ECEZ*	12" (300 mm)	---	0.6" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310ECEZ, ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310ECEZ THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL. PRE-CORED END CAPS END WITH "PC"

5 INSERTA TEE DETAIL



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
SC-800	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
MC-7200	12" (300 mm)	8" (200 mm)

INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON

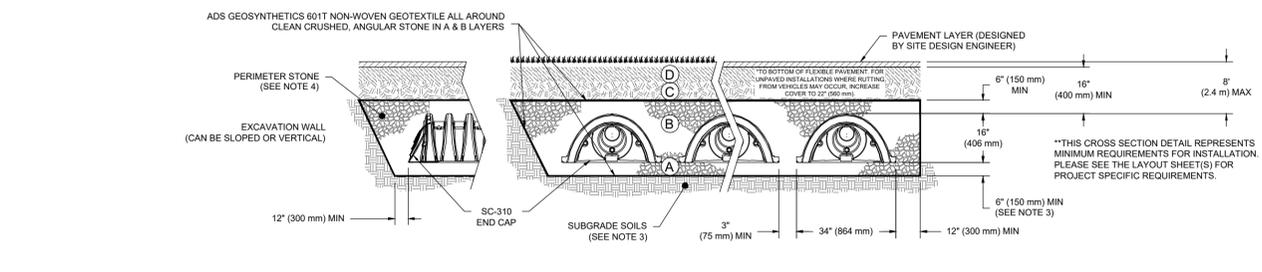
6 INSERTA-TEE SIDE INLET DETAIL

2 SC-310 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

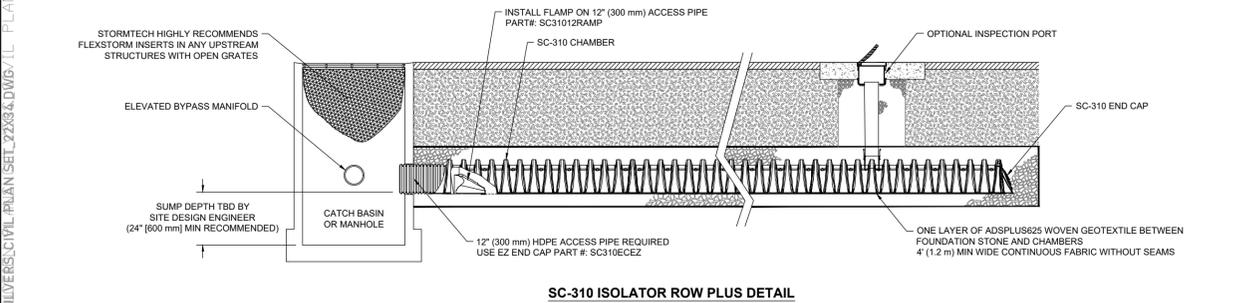
MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	3.25	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (400 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (55 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ³ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ³ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
 - WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".

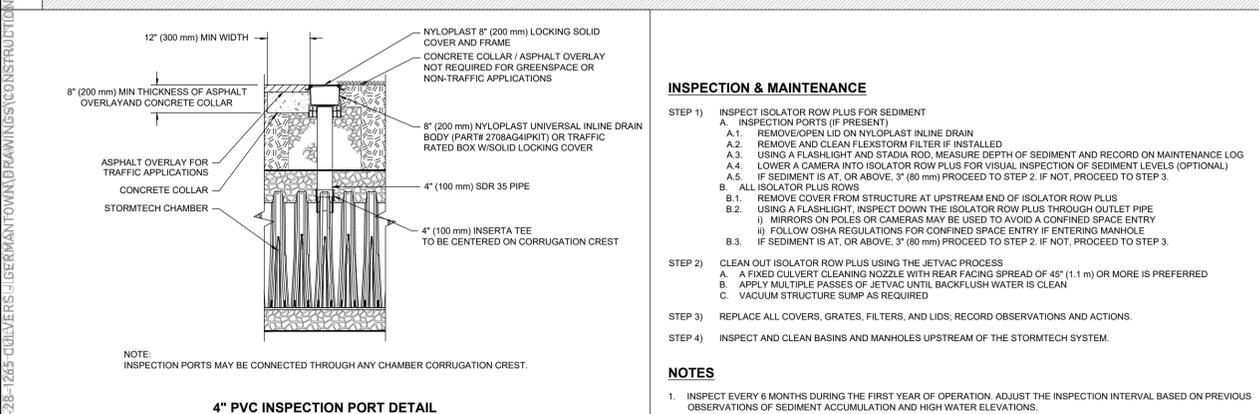


- NOTES:**
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 325 LBS/FT². AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 SC-310 CROSS SECTION DETAIL



3 SC-310 ISOLATOR ROW PLUS DETAIL



4 4\"/>

WISCONSIN PROFESSIONAL ENGINEER
 Matthew A. O'Connell
 DESIGN & LAND SURVEYING
TRIO
 CIVIL ENGINEERING
 4100 N. CALHOUN RD., SUITE 300
 BROOKFIELD, WI 53005
 PHONE: (262) 790-1480
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 EMAIL: jaudelko@trioeng.com

PROJECT:
CULVER'S - GERMANTOWN, WI
 NWC OF MEQUON ROAD AND DIVISION ROAD
 VILLAGE OF GERMANTOWN, WISCONSIN

REVISION HISTORY

DATE	DESCRIPTION
7/7/2025	PRELIMINARY SUBMITTAL

DATE:
 JULY 7, 2025

JOB NUMBER:
 25-28-1265

DESCRIPTION:
 ADS DETAILS & SPECIFICATIONS

SHEET
 C5.1

X:\2025\25-28-1265-CULVER'S GERMANTOWN\DRAWINGS\CONSTRUCTION\PLANS\CULVERS\CIVIL\PLAN SET_22X34.DWG PLN SET_22X34.DWG

StormTech Chamber System
 188-892-2694 | WWW.STORMTECH.COM
 4640 TRUEMAN BLVD
 HILLIARD, OH 43026
 ADS Advanced Drainage Systems, Inc.

SHEET
 1



WEST / MAIN ENTRY ELEVATION

REPRESENTATION	MATERIAL	COLOR
TOWER ACCENT EIFS		"TONY TAUPE" SW7038
ROOF EDGE EXCEPTIONAL METALS		"REGAL BLUE"
TOWER ACCENT EIFS		"POPULAR GRAY" SW6071
ALUM. CLADDING SYSTEM (LONGBOARD)		"TABLE WALNUT" 6" V-GROOVE
CANVAS AWNINGS (BY OTHERS)		"ROYAL BLUE TWEED" 4617 SUNBRELLA
MAIN FIELD EIFS		"POPULAR GRAY" SW6071
SCONCE FIXTURES		BRONZE
WINDOW & DOOR FRAMES		NATURAL ALUMINUM
MFGR'D STONE w/ STONE SILL TRIM ENVIRONMENTAL STONEWORKS		"ASPEN NICKEL CREEK" TUSCAN LEDGE

BLDG ADDRESS NUMBERS (BY OTHERS), VERIFY COLOR, LOCATION & ADDRESS W/ LOCAL FIRE DEPT. NUMBERS TO BE MIN 4"H x 12" WIDE.

BLUE LED STRIP LIGHT, ALL TOWERS EXCEPT REAR

±23'-3" OVERALL MAIN ENTRY "TOWER"

KNOX BOX - VERIFY LOCATION & TYPE W/ LOCAL FIRE DEPT

BUILDING SIGNAGE, BY OTHERS

ALUMINUM ROOF LADDER w/ SECURITY SCREEN



SOUTH / FRONT ELEVATION



NORTH / REAR ELEVATION



EAST / DRIVE THRU ELEVATION

OVERFLOW SCUPPER, VERIFY W/ PLB PLANS

WHERE VISIBLE ROOF MEMBRANE SHALL BE TAN

BLUE LED STRIP LIGHT, ALL TOWERS EXCEPT REAR

NATURAL ALUMINUM CANOPY FASCIA

RUNNER CANOPY, "REGAL BLUE"

DUMPSTER ENCLOSURE

±23'-3" OVERALL MAIN ENTRY "TOWER"
±18'-11" OVERALL TYPICAL PARAPET

±21'-1" OVERALL DRIVE THRU "TOWER"

±18'-11" OVERALL TYPICAL PARAPET

CLEAR GLAZING, TYPICAL

±21'-3" OVERALL DRIVE THRU "TOWER"

±23'-3" OVERALL FRONT "TOWER"
±18'-11" OVERALL TYPICAL PARAPET

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NEW CULVER'S RESTAURANT
NWC Mequon Road & Division Road
 Germantown, WI 53022
 County of WASHINGTON


 Culver Franchising System, Inc
 1240 Water Street
 Prairie du Sac, WI 53578
 608-643-7960

OLLMANN ASSOCIATES ARCHITECTS
 200 South State Street
 Belvidere, Illinois 61008
 815-544-7790 Phone

2D ELEVATIONS
 NOTE: THOUGH THESE IMAGES HAVE PHOTO REALISTIC QUALITIES, THE ACTUAL BUILDING MATERIALS MAY VARY IN APPEARANCE.
 Date: 7-7-2025
 Revision:

2025-111

A1

REAR LEFT (NWC) VIEW



REAR RIGHT (NEC) VIEW



FRONT RIGHT (SEC) VIEW

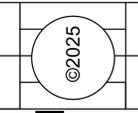


FRONT LEFT (SWC) VIEW



LEFT / (WEST) PERSPECTIVE

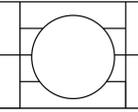
RIGHT / (EAST) PERSPECTIVE



NEW CULVER'S RESTAURANT
NWC Mequon Road & Division Road
Germantown, WI 53022
County of WASHINGTON

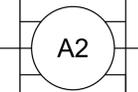


OLLMANN ASSOCIATES ARCHITECTS
200 South State Street
Belvidere, Illinois 61008
815-544-7790 Phone



3D IMAGES
NOTE: THOUGH THESE IMAGES HAVE PHOTO REALISTIC QUALITIES, THE ACTUAL BUILDING MATERIALS MAY VARY IN APPEARANCE.
Date: 7-7-2025
Revision:

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ROOF EDGE METAL
"REGAL BLUE"



ALUM. CLADDING SYSTEM
"TABLE WALNUT"



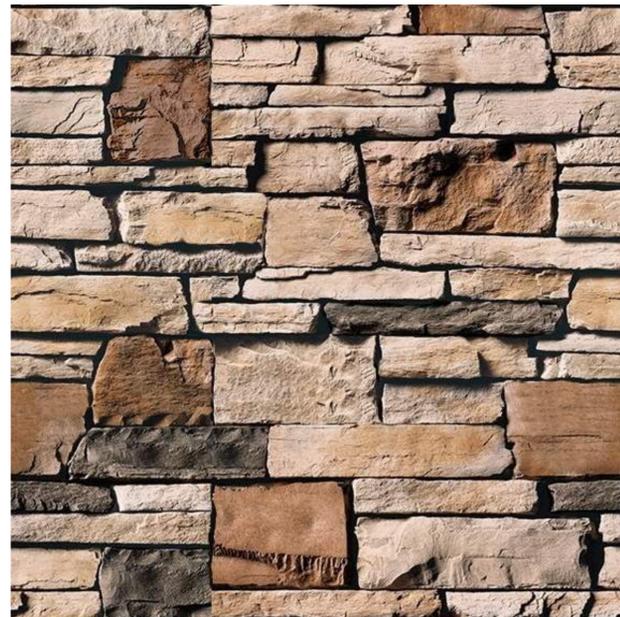
MAIN FIELD EIFS
"POPULAR GRAY" SW 6071



TOWERS & D/T. EIFS
"TONY TAUPE" SW 7038



AWNING CANVAS
"ROYAL BLUE TWEED"
4617 SUNBRELLA



MANUFACTURED STONE VENEER
"ASPEN NICKEL CREEK" TUSCAN LEDGE

ROOF EDGE METAL

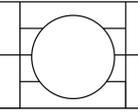
TOWERS & D/T EIFS

ALUM. CLADDING SYSTEM (LONGBOARD)

MAIN FIELD EIFS

AWNING CANVAS

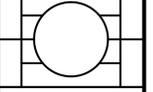
MFGRD STONE VENEER



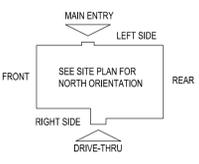
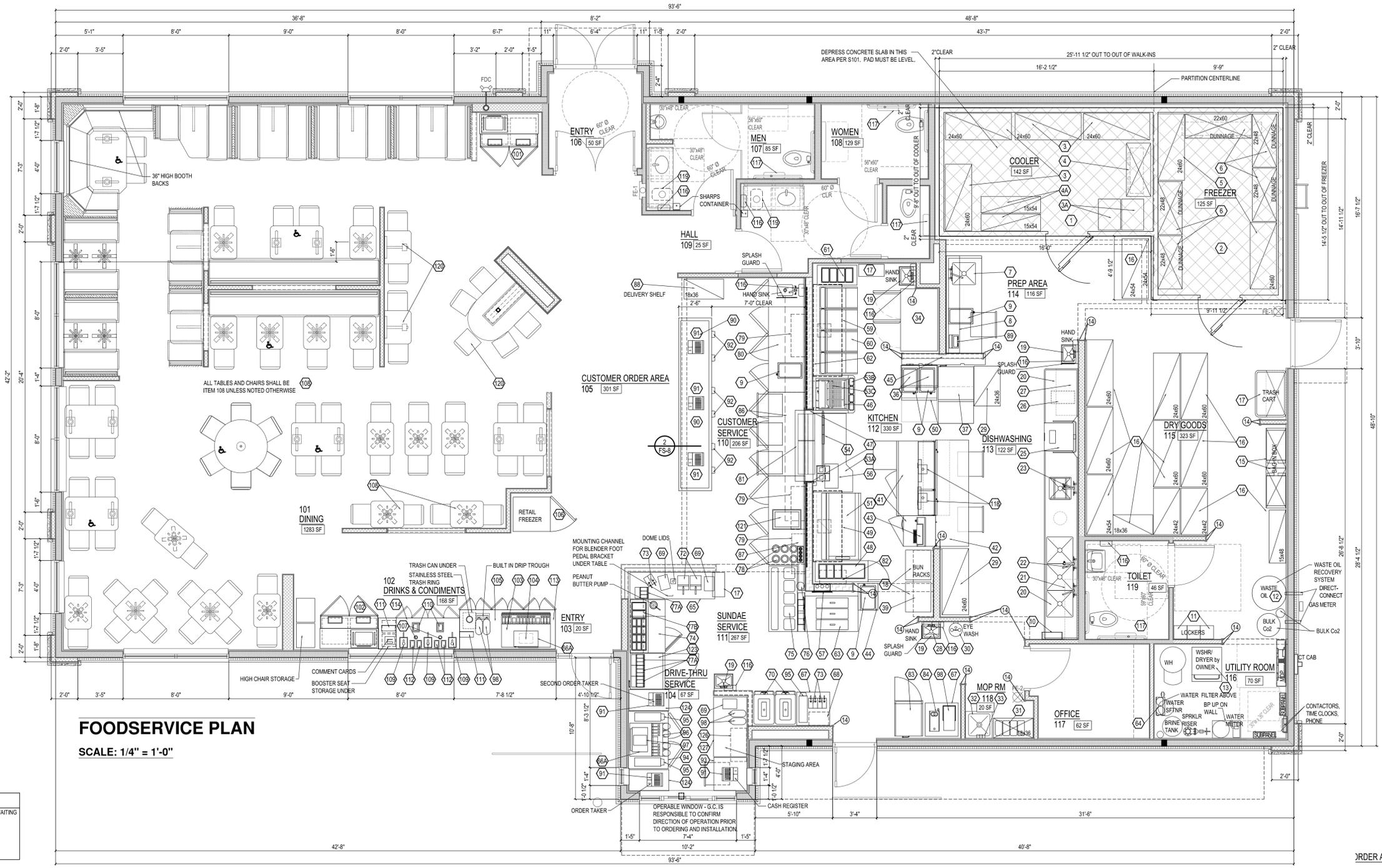


OWNER:
 Burgers & Braatz Properties, LLC
 12455 Wrayburn Rd
 Elm Grove, WI 53122

OWNER:
 OLLMANN ASSOCIATES ARCHITECTS, P.C.
 200 South State Street
 Belvidere, Illinois 61008
 815-544-7790 Phone
 Dan Braatz
 (282) 510-8057



FOOD SERVICE PLAN



SEATING SUMMARY

2 6-PERSON TABLES = 12 SEATS	5 TO-GO / ORDER WAITING
12 4-PERSON TABLES = 48 SEATS	
1 3-PERSON TABLES = 3 SEATS	
18 2-PERSON TABLES = 36 SEATS	
33 TOPS = 99 SEATS	

OWNER FURNISHED, FOOD SERVICE EQUIPMENT CONTRACTOR (FSEC) INSTALLED

ITEM	EQUIPMENT SCHEDULE	ITEM	EQUIPMENT SCHEDULE
1	WALK IN COOLER (BOX, LINE SETS, & COIL DRAIN PIPES)	45	STAINLESS STEEL WALLCAP / ELEC CHASE COVER
2	WALK IN FREEZER (BOX, LINE SETS, & COIL DRAIN PIPES)	46	HEATED FRY BIN
3	WALK-IN COOLER RACKS	47	FRONT PASS-THRU STAINLESS STEEL CHANNEL TRIM
3A	THAWING RACKS	48	REFRIGERATED MEAT CART
4	WALK-IN COOLER DUNNAGE RACKS	50	MOBILE WORKTABLE
4A	MOBILE CUSTARD MIX RACKS	51	GRILL AND STAND
5	WALK-IN FREEZER SHELVING	52	TRANSFER STATION - ROUGH-IN ONLY
6	WALK-IN FREEZER DUNNAGE RACKS	53A	SANDWICH WRAP STATION LEFT
7	WORKTABLE / SINK	53B	SANDWICH WRAP STATION RIGHT
8	WALL SHELF	53C	WALL SHELF
11	LOCKERS	54	ORDER BARS
14	STAINLESS STEEL WALL CORNER GUARDS, SHOWN (1)	57	STAINLESS STEEL REFRIGERATION CHASE COVER
16	WIRE SHELVING	58	FRY STATION HEAT LAMP - ROUGH-IN ONLY
20	DISHTABLES AND UTENSIL SINKS	60	FRYERS
21	WALL SHELF	61	CUSTOM FISH REFRIGERATOR
24	OPEN NUMBER	62	OPEN NUMBER
27	SLANTING WALL SHELF	65	MOBILE STAINLESS STEEL WORKTABLE
29	CLEAN PAN SHELVING	66	FUTURE ICE MACHINE - ROUGH-IN ONLY
31	JANITORS SHELVING	66A	REMOTE ICE MAKER
34	REACH-IN FREEZER	67	WORK TABLE
35	OPEN NUMBER	68	OPEN NUMBER
37	REFRIGERATED DRAWER BASE	71	REFRIGERATED TOPPING TABLE
38	DUAL FRY DISPENSER - NOT INCLUDED	74	CUSTARD DIPPING CABINET
39	WALL MOUNTED BREAD SHELF	75	CAKE CONE DISPENSER
40	OPEN NUMBER	77A	SUNDAE TOPPING DISPENSER
41	REFRIGERATED WORKTABLES	77B	SUNDAE TOPPING WALL SHELF
42	MOBILE WORKTABLE / OVERSHELF	78	DISH / CUP DISPENSERS
44	GRILL SIDE WARMER CART	79	WALL SHELVES
		80	REFRIGERATED SIS BACKCOUNTER
		81	HEATED PASS-THRU UNIT
		82	TOOL SHELF
		83	REACH IN REFRIGERATOR
		88	DELIVERY SHELF
		90	FRONT SERVICE COUNTER
		92	CUP DISPENSERS
		93	STAINLESS STEEL DRIVE-THRU COUNTER
		94	STAINLESS STEEL DRIVE-THRU COUNTER
		95	CUP DISPENSERS
		100	DISPLAY CABINET - NOT INCLUDED
		101	TRAY / TRASH / RECYCLE CABINETS
		102	TRAY / TRASH CABINET - NOT INCLUDED
		106	RETAIL FREEZER
		107	CONDIMENT CUP DISPENSERS
		108	TABLES / CHAIRS / BOOTHS
		109	CONDIMENT DISPENSERS
		110	NAPKIN DISPENSERS
		113	BEVERAGE COUNTER
		114	CONDIMENT COUNTER
		119	WASTE RECEPTACLES
		120	HIGH TOP TABLES AND CHAIRS
		121	DROP IN CUSTARD COLD PAN
		123	WORKTOP REFRIGERATOR
		124	WORKTABLES
		125	MOBILE WORKTABLE
		126	SLANTING WALL SHELF
		127	OPEN NUMBER
		505	REFRIGERATION LINE SETS (SEE H6 / A105)

OWNER FURNISHED, VENDOR INSTALLED

ITEM	EQUIPMENT SCHEDULE	ITEM	EQUIPMENT SCHEDULE
9	COOKER / WARMERS	98	ICED TEA BREWER / DISPENSER
12	WASTE OIL RECOVERY SYSTEM	103	ICE AND SODA DISPENSER
15	BAG-IN-BOX SYSTEM	104	CARBONATOR
17	TRASH CANS / CART	105	SELF SERVICE LID DISPENSER
18	BUN RACKS	111	STRAW DISPENSERS
33	CHEMICAL DISPENSING SYSTEM	112	CONDIMENT PANS
36	MICROWAVE OVEN	118	MONITOR BRACKETS
43	BUN TOASTER		
55	OPEN NUMBER		
56	HEATED BUN WARMER		
63	TRIPLE CUSTARD MACHINE		
69	ASTRO BLENDERS		
72	MILKSHAKE MACHINE		
73	HEATED SYRUP DISPENSERS		
74	LIQUID TOPPING DISPENSERS		
84	COFFEE MAKER		
85	POWER WASHER - NOT INCLUDED		
86	MENU BOARD / SIGNAGE PACKAGE		
87	WAFFLE CONE DISPENSER		
89	FOOD LABEL MARKER		
91	CASH REGISTER / POS SYSTEM		
96	ICE AND SODA DISPENSER		
97	CARBONATOR		

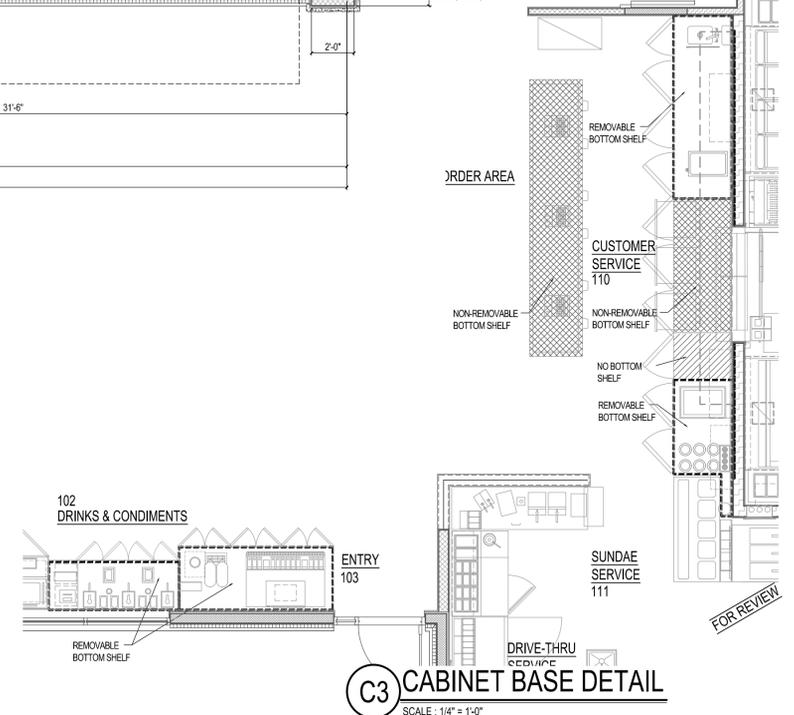
NOTE: G.G. TO COORDINATE SOME ITEMS PLACED BY OWNER & NOT BY VENDOR - CONFIRM

CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

ITEM	EQUIPMENT SCHEDULE
25A	DISHWASHER CONDENSATE HOOD - NOT INCLUDED
28	FIRE SUPPRESSION SYSTEMS
32	MOP SINK
49	EXHAUST HOOD - GRIDDLE
59	EXHAUST HOOD - FRYERS

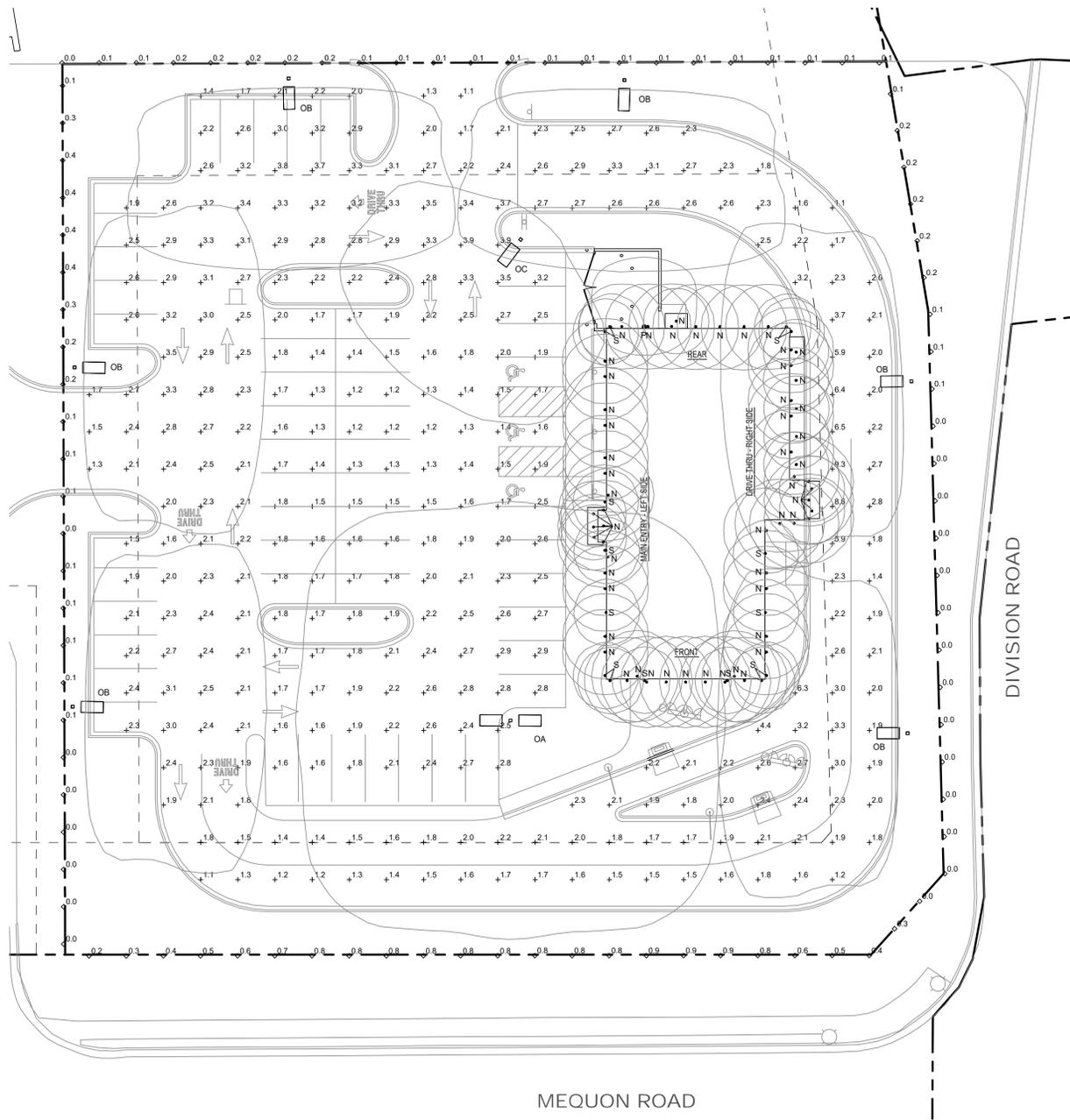
OWNER FURNISHED, CONTRACTOR INSTALLED

ITEM	EQUIPMENT SCHEDULE
10	KETCHUP VUL PAK DISPENSER
13	WASHER / DRYER
19	HAND SINK
22	PRE-RINSE SPRAY ASSEMBLY
23	PRE-RINSE SPRAY ASSEMBLY
25	DISHWASHER
26	BOOSTER HEATER
30	EYE WASH STATION (CONTRACTOR TO PROVIDE MIXING VALVE PER PLUMBING SCHEDULE)
64	WATER FILTER
116	HAND TOWEL DISPENSERS
117	TOILET PAPER DISPENSERS
300	TRIM PACKAGE (SEE H2 / A103)
	FOOD SERVICE EQUIP. COUNTER BASES (SEE FINISH PLAN)
	SHARPS CONTAINERS
	AED OPTIONAL - CONFIRM WITH OWNER
	MOP HANGER
	ARTWORK (SEE SHEET A103.1)



NOTE: SOME ITEMS INSTALLED BY OTHERS REQUIRE ROUGH-IN AND/OR WIRING BY CONTRACTOR AS NOTED IN PLUMBING AND ELECTRICAL SCHEDULES.

FOOD SERVICE EQUIPMENT AND RELATED ITEMS IDENTIFIED ON THIS SHEET ARE SELECTED AND SPECIFIED BY CULVER FRANCHISING SYSTEM LLC. THE ARCHITECT REPRESENTS SAID ITEMS FOR COORDINATION OF DESIGN, BUT IS NOT RESPONSIBLE FOR SPECIFICATIONS.



H3 SITE PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"

LUMINAIRE SCHEDULE - SITE LIGHTING			
SYMBOL	LABEL	CATALOGUE NUMBER	WATTS
OA	2 DS-1 LED P4 40K 80CRI TSM 25' POLE: POLE BASE @ 6' ABOVE GRADE	LED	247.9
OB	DS-1 LED P4 40K 80CRI BLC3 3' Treme 3'acq lig 1 control 25' POLE: POLE BASE @ 6' ABOVE GRADE	LED	123.9
OC	DS-1 LED P4 40K 80CRI TFM HS 3' Treme 3'acq lig 1 control 25' POLE: POLE BASE @ 6' ABOVE GRADE	LED	123.9

LUMINAIRE SCHEDULE - BUILDING MOUNT			
SYMBOL	LABEL	CATALOGUE NUMBER	WATTS
N	LON6 4015 LOGARLS MVOLT G:10 LITHONIA	LED	21
P	SLIM17FA1SADJ RAB LIGHTING	LED	17.5
S	CD34-4W RAB LIGHTING	LED	22

STATISTICS						
DESCRIPTION	SYMBOL	AVG	MAX	MIN	AVG/MIN	
PARKING	+	2.3 f	9.3 f	1.1 f	8.5:1	2.1:1
PROPERTY LINE	◇	0.2 f	0.9 f	0.0 f	N/A	N/A

FOR REVIEW

<p>2025</p>
<p>NEW CULVER'S RESTAURANT NWC Mequon Road Division Road Germantown, WI 530022 County of WASHINGTON</p>
 <p>Culver's Franchising System, Inc. 1240 Water Street Prairie du Sac, WI 53578 608-543-7980</p>
<p>OWNER: Burgess Braat Properties, LLC 12455 Wray Jun Rd Elm Grove, WI 53122 Dan Braat 262.510.8057</p>
<p>OLLMANN ASSOCIATES ARCHITECTS, P.C. 200 South State Street Bellevue, Illinois 61008 815-544-7790 P-010 OAA - All rights reserved. Any copying, transmission or disclosure subject to OAA written approval.</p>
<p>SITE PHOTOMETRIC PLAN</p> <p style="text-align: right;">Revision: Date: 7-7-2025</p>
<p>2025-111</p> <p style="font-size: 2em; font-weight: bold;">SE 101</p>

CD34-6WZ

RAB



Color: Bronze Weight: 6.3 lbs

Project: _____ Type: _____
 Prepared By: _____ Date: _____

Driver Info		LED Info	
Type	Constant Current	Watts	36/28/22/1W
120V	0.30A	Color Temp	3000/4000/5000K
208V	0.17A	Color Accuracy	90 CRI
240V	0.15A	L70 Lifespan	50,000 Hours
277V	0.13A	Lumens	3300/2750/2100 lm
Input Watts	36/28/22/1W	Efficacy	95

Technical Specifications

Performance

Product Type: Cylinder Wall Mount

Description: Economical cylinders with field-adjustable color temperature, power and light distribution along with field-swappable optics to fit any indoor or outdoor application.

Wattage Equivalency: 200/180/140W

Input Wattage: 36/28/22W

Nominal Lumens: 3300/2750/2100lm

Efficacy: 95lm/W

Lifespan: 50,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Electrical

Driver: Constant Current, 50-60 Hz, 120V-277V

THD:

≤20%

Power Factor:

≥0.9

Dimmable:

Yes, dimmable down to 5% on compatible 0-10V dimming systems. See Dimmer Compatibility List. Requires separate 0-10V DC dimming circuit.

Input Voltage:

120-277V

Operating Frequency: 50/60Hz

Input Current @ 120V (mA): 300mA

Input Current @ 208V (mA): 169mA

Input Current @ 240V (mA): 146mA

Input Current @ 277V (mA): 127mA

Operating Temperature: -40°F to 120°F (-40°C to 45°C)

Flicker:

8/req/1%

Photocell:

Integrated photocell included with on/off switch

LED Characteristics

Beam Angle: 60° (installed) Field swappable optics sold separately for 25°/40°/60° beam angle.

Light Distribution:

Selectable dip switch for up, down, or up/down light

Color Temperature: 3000/4000/5000K

Color Accuracy (CRI): 90 CRI

R9 Value: High color performance with R9 greater than 0

Color Consistency: ± 5-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

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LITHONIA LIGHTING

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.
CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs. Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment. Two combination 1/2" x 3/4" and four 1/2" knockouts for straight-through conduit run. Capacity: 8 (#4 in, 4 #10, No. 12 AWG conductors, rated for 90°C. Accommodates 12"-24" joist spacing. Passive cooling thermal management for 25°C standard, high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling. Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step MacAdam Ellipse; 80 CRI minimum, 90 CRI optional. LED light source concealed with diffusing optical lens.

General Illumination Lighting with 1.0 S/MH and 5' cutoff to source and source image. Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

A+ CAPABLE LUMINAIRE — This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products. All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency — including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates. To learn more about A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

UGR — UGR is used for fixtures aimed at radiance with a cut-off equal to or less than 60 degrees per IESNA 11996/02000 Comfort Glare in Interior Lightings.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available. 0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

LUMEN MAINTENANCE — 70% lumen maintenance at 40,000 hours. L70/60,000 hours

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product. Drivers are RoHS compliant

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America Act government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/usa-buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty-terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

PERFORMANCE DATA

Nominal Lumens	Lumens	Wattage	Lm/W
500	527.9	5.8	90.5
750	758.1	8.9	85.1
1000	950.1	10.4	91.0
1500	1514	17.5	86.4
2000	2006	22.5	89.1
2500	2504	28.3	88.6
3000	3021	34.8	86.9
4000	4008	44.3	90.6
5000	4975	57.7	86.3

Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.



DOWNLIGHTING

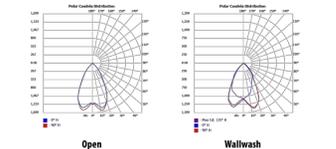
Catalog Number: _____
 Notes: _____
 Type: _____

LDN6 STATIC WHITE

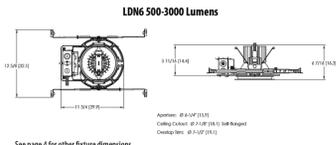
6" Open and Wallwash LED Non-IC New Construction Downlight



DISTRIBUTIONS



DIMENSIONS



See page 4 for other fixture dimensions

LDN6

SLIM17FA15ADJ

RAB



Color: Bronze Weight: 3.0 lbs

Project: _____ Type: _____
 Prepared By: _____ Date: _____

Driver Info		LED Info	
Type	Constant Current	Watts	15W
120V	0.13A	Color Temp	3000K/4000K/5000K
208V	0.07A	Color Accuracy	70 CRI
240V	0.06A	L70 Lifespan	100,000 Hours
277V	0.05A	Lumens	1761/1504/1852 lm
Input Watts	14.2/14/14.2W	Efficacy	124/136.2/130.3 lm/W

Technical Specifications

Field Adjustability

Color temperature selectable by 3000K, 4000K and 5000K

Compliance

UL Listed: Suitable for wet locations

IESNA LM-79 & LM-80 Testing: RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80

IP Rating: Ingress protection rating of IP65 for dust and water

DLC Listed: This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC S.1 requirements.

DLC Product Code: PLOM/JCH62Q3

Performance

Lifespan: 100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Wattage Equivalency: Equivalent to 70W Metal Halide

LED Characteristics: Long-life, high-efficiency, surface-mount LEDs

Driver: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.13A, 208V: 0.07A, 240V: 0.06A, 277V: 0.05A

Dimming Driver: Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

Photocell:

120-277V Integrated button photocell included.

Construction

Cold Weather Starting: The minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature: Suitable for use in up to 50°C (122°F)

Housing:

Precision die-cast aluminum housing and door frame

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Page 1 of 2

D-Series Size 1 LED Area Luminaire

IESNA, DLC, UL, LUMINA, LE, ENERGY STAR, Wi-Fi

d-series

Specifications

EPA: 0.69 ft² (0.39 m²)

Length: 32.71" (83.1 cm)

Width: 14.26" (36.2 cm)

Height H1: 7.88" (20.0 cm)

Height H2: 2.73" (6.9 cm)

Weight: 34 lbs (15.4 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOL1 SPA NLTAIR2 PIRHN DDBXD

Series	LEDs	Color Temperature	Color Rendering Index	Distribution	Voltage	Mounting
DSX1 LED	Forward optics	(This section 70CRI only)	70CRI	AFR Automotive front row	MVOLI (120V-277V) ¹	Shipped included
P1	P6	30K 3000K	70CRI	T15 Type I short	HVOLI (347V-480V) ¹⁰	SPA Square pole mounting #8 drilling
P2	P7	40K 4000K	70CRI	T3M Type II medium	XVOLI (777V-480V) ¹⁰	RPA Round pole mounting #8 drilling
P3	P8	50K 5000K	70CRI	T3M Type III medium	BLC3 Type III backlight control ¹	SPAS Square pole mounting #5 drilling ¹¹
P4	P9	(This section 80CRI only, extended lead times apply)	80CRI	T3LG Type III low glare ¹	BLC4 Type IV backlight control ¹	RPA5 Round pole mounting #5 drilling ¹¹
P5	P10	27K 2700K	80CRI	T4M Type IV medium	LCO Left corner outlet ¹	SPRAN Square luminaire pole mounting #8 drilling
P10 ¹	P12 ¹	30K 3000K	80CRI	T4LG Type IV low glare ¹	RCCO Right corner outlet ¹	WBA Wall bracket ¹²
P11 ¹	P13 ¹	35K 3500K	80CRI	T4TM Type IV medium		BA Back arm adjuster (mounts on 2-1/8" OD horizontal beam)
		40K 4000K	80CRI			
		50K 5000K	80CRI			

Control options

Shipped installed

NIAIR2 PIRHN Night AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 20' ±0.1'

PER High flow, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 20' ±0.1'

PERS NEMA touch lock receptacle only (controls ordered separately)¹³

PERS Five-pin receptacle only (controls ordered separately)¹³

Other options

PER7 Seven-pin receptacle only (controls ordered separately)^{13,14}

FAO Field adjustable output^{15,16}

BL20 Bi-level switched dimming, 20% ±0.1'

BL50 Bi-level switched dimming, 50% ±0.1'

DMG 0-10V dimming wires pulled outside fixture for use with an external control, ordered separately¹⁷

DS Dual switching^{18,19}

Shipped separately

SP200V 200V surge protection

HS Hoopside shield (black finish standard)²⁰

L90 Left rotated optics¹

R90 Right rotated optics¹

CE Coastal Construction¹

HA 50°C ambient operation¹⁴

EGSR External Glass Shield (removable, field install requires machine housing bracket)

BS08 Bird Spikes (field install required)

Finish options

DD02 Dark Bronze

DR02 Black

DNAXD Natural Aluminum

DW02D White

DW02D1 Textured dark bronze

DR02D Textured dark

DNAXD1 Textured natural aluminum

DW02D1 Textured white

2025

NEW CULVER'S RESTAURANT
 NWC Meadison Road
 Germantown, WI 53002
 County of WASHINGTON

OWNER:
 Burgers & Braai Properties, LLC
 12455 Wray Ln Rd
 Elm Grove, WI 53122
 Dan Braai
 815-544-7790 P-one
 262-510-8057
 OMA All fig. is reserved and any copying, transmission or disclosure subject to OMA written approval.

OWNER:
 OLLMANN ASSOCIATES ARCHITECTS, P.C.
 200 South State Street
 Bellville, Illinois 61008
 815-544-7790 P-one
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Re: ision:

Date: 7-7-2025

2025-111

SE 201

FOR REVIEW

Culver's - Germantown

Mequon Road and Division Road
Germantown, Wisconsin

Preliminary

Storm Water Management Plan

Prepared by:



Trio Engineering LLC

4100 N. Calhoun Road
Brookfield, Wisconsin 53005
Contact: Josh Pudelko, P.E.
Telephone: (262) 790-1480
Email: info@trioeng.com

Sound Stormwater Design LLC

Contact: Jayme Sisel, P.E.
Telephone: (414) 286-4739
Email: jayme.sisel@soundstormwater.com

July 7, 2025

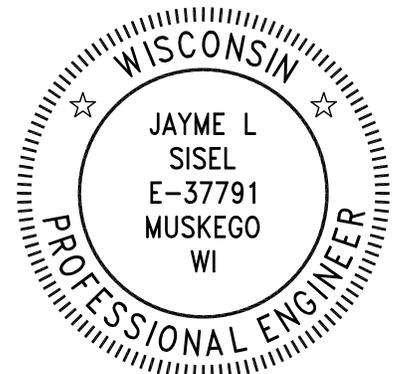


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Owner/ Developer	1
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Project Site Description	2
Detention Volume Summary.....	2
Water Quality	3
Conclusion.....	3

APPENDICES

FIGURES

APPENDIX A Treatment Analysis

Introduction

Burgers & Braatz Properties, LLC is proposing a new Culver's development on a parcel located on the northwest corner of Mequon Road and Division Road, in the Village of Germantown, Washington County, Wisconsin.

This report documents the design computations for proposed conditions and presents a plan for stormwater management that meets the requirements of the Village of Germantown, the Milwaukee Metropolitan Sewerage District (MMSD), and the Wisconsin Department of Natural Resources (WDNR).

Owner/ Developer

The owner, developer, and responsible entity for installation and maintenance of the stormwater management practices:

Burgers & Braatz Properties, LLC
12455 Wrayburn Road
Elm Grove, Wisconsin 53122
Contact: Dan Braatz
Email: danbraatz23@yahoo.com
Phone: (262) 510-8057

Design Requirements

The following design standards have been used to develop the stormwater management plan for the Culver's development:

- Village of Germantown Stormwater Management Ordinance Chapter 27 Post-Construction Stormwater Management
- Milwaukee Metropolitan Sewerage District (MMSD) Chapter 13 Rules on Surface Water and Storm Water Runoff Management
- Wisconsin Department of Natural Resources (WDNR) Technical Standards, NR151, and NR216
- Summary of design requirements:
 - Detention Volume: The Milwaukee Metropolitan Sewerage District's (MMSD) Chapter 13 Green Infrastructure requirements include developments that disturb less than 2 acres of area and increase the impervious surface area of a site by 5,000 sq-ft to 21,780 sq-ft. These sites are required to include green infrastructure with a detention volume equal to ½-inch multiplied by the area of the net new impervious surface.
 - Water Quality (Total Suspended Solids): Reduce to the maximum extent practicable the total suspended solids load from parking lots and roads by 40%, based on an average annual rainfall, as compared to no runoff management controls.

Project Site Description

The existing site is located on a portion of the former Blackstone Golf Club resort and is currently developed with an existing parking lot, golf cart paths, and a foundation from a former building that was recently removed. Refer to Figure 1, *Pre-Development Conditions Plan*, for the site location and existing land cover types.

The proposed development involves construction of a new Culver's restaurant, including a building, parking lot, drives, sidewalks and landscaping. The proposed development plan will disturb approximately 1.27 acres of area and will result in a net increase in impervious surface by approximately 0.13 acres.

Green infrastructure for the development will be provided by an ADS isolator row (IR) system beneath the west side of the proposed parking lot. Additionally, one sumped catch basin will be installed to treat runoff from the drive through area on the southeast portion of the site. Refer to Figure 2, *Post-Development Conditions Plan*, for details on proposed land cover, grading, drainage boundaries, and stormwater management improvements.

TABLE 1
Land Use Summary

Site Conditions	Impervious Area Breakdown (acres)				Total Impervious (acres)	Total Pervious (acres)	Total Area (acres)
	Roof	Parking	Drive	Sidewalk			
Pre-Development	0.15	0.51	0.05	0.09	0.80	0.47	1.27
Post-Development	0.10	0.44	0.32	0.07	0.93	0.34	1.27
Impervious Surface Increase					+ 0.13		

Detention Volume Summary

Stormwater management for this development falls within the Milwaukee Metropolitan Sewerage District's (MMSD) Chapter 13 Green Infrastructure requirements which includes developments that disturb less than 2 acres of area and increase the impervious surface area of a site by 5,000 sq-ft to 21,780 sq-ft. These sites are required to include green infrastructure with a detention volume equal to ½-inch multiplied by the area of the net new impervious surface. The required detention volume for site is as follows.

TABLE 2
Detention Volume Summary

Impervious Surface Increase		GI Calculation	Detention Volume Required	Detention Volume Provided by ADS IR system
Acres	Sq-Ft			
0.13	5,663	$\frac{5,663 \text{ sq-ft} \times \frac{1}{2} \text{ in}}{12 \text{ ft/in}}$	= 236 cu-ft	< 676 cu-ft

Water Quality

The Village of Germantown requires redevelopment sites to be designed to remove 40 percent of TSS from parking lots and roads, based on an average annual rainfall as compared to no runoff management controls.

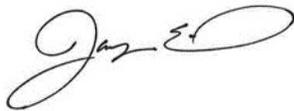
Stormwater quality was analyzed using SLAMM Version 10.5.0 software, developed by Robert Pitt and John Voorhees. The total TSS loading generated from the proposed parking areas and drives is approximately 510.7 lbs. Applying the 40 percent reduction to this loading requires at least 204 lbs be removed from the site. The results of the SLAMM analysis indicate that approximately 207 lbs of TSS will be removed from stormwater as a result of the proposed ADS isolator row system and the sumped catch basin. This meets the minimum 40 percent TSS removal requirement applied to the proposed parking areas and roads. Detailed computations are provided in Appendix A.

Conclusion

The proposed development will maintain compliance with the Village of Germantown, MMSD, and the WDNR's requirements for control of stormwater detention volume and quality. We request, on behalf of the owner, approval of this Stormwater Management Plan to allow for construction of the Culver's development.

Prepared by:

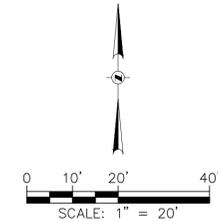
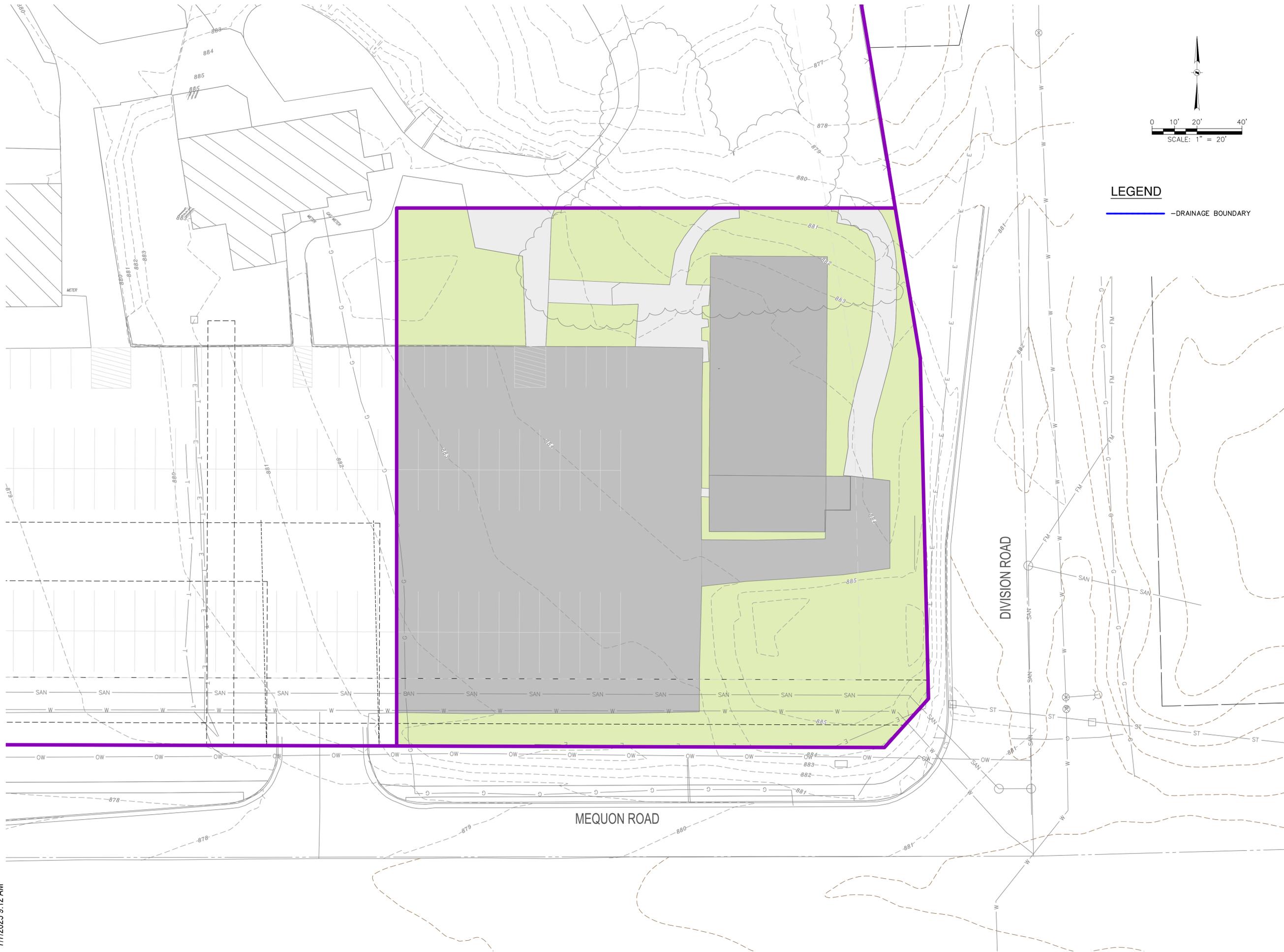
SOUND STORMWATER DESIGN LLC



Jayme Sisel, P.E.

FIGURES

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LEGEND
— DRAINAGE BOUNDARY



SOUND STORMWATER DESIGN

Copper Oaks Ct.
Muskego, WI 53150
414.286.4739
jayme.sisel@soundstormwater.com

CLIENT:

PROJECT TITLE:
**CULVER'S -
GERMANTOWN**
MEQUON ROAD AND DIVISION ROAD
GERMANTOWN, WISCONSIN

DATE: 07-07-25

JOB NO: 2025-016

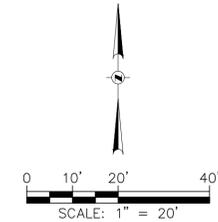
SHEET TITLE:
**PRE-
DEVELOPMENT
CONDITIONS PLAN**

FIGURE:



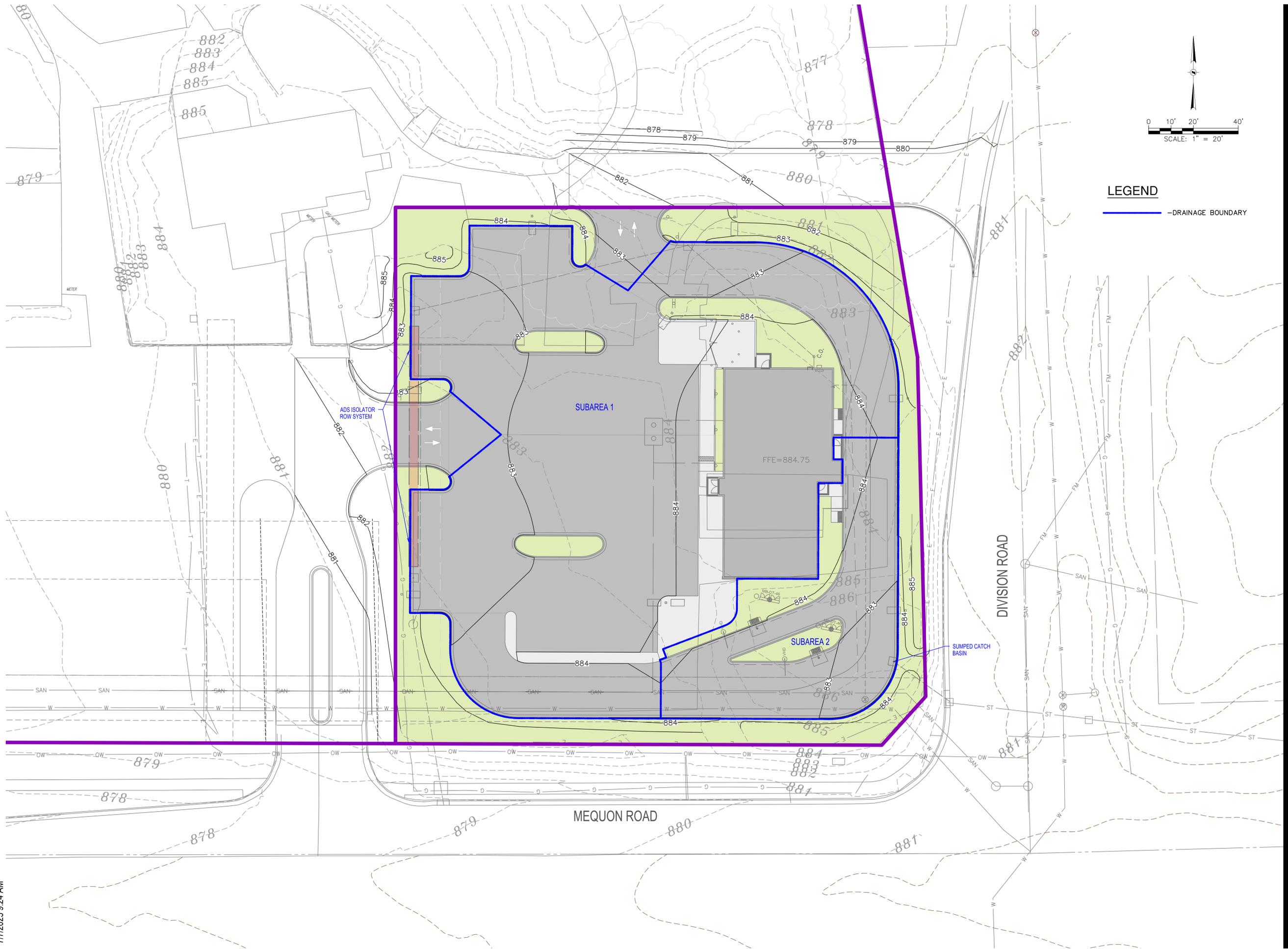
SOUND STORMWATER DESIGN

Copper Oaks Ct.
Muskego, WI 53150
414.286.4739
jayme.sisel@soundstormwater.com



LEGEND

— DRAINAGE BOUNDARY



CLIENT:

PROJECT TITLE:
CULVER'S - GERMANTOWN
MEQUON ROAD AND DIVISION ROAD
GERMANTOWN, WISCONSIN

DATE: 07-07-25

JOB NO: 2025-016

SHEET TITLE:
**POST-DEVELOPMENT
CONDITIONS PLAN**

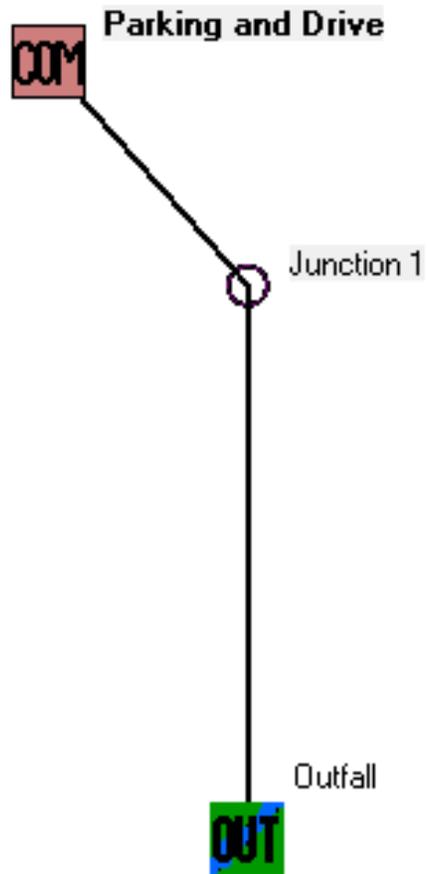
FIGURE:

C:\Data\Jobs\2025\2025-016 - Culvers - Germantown - TRIO\CAD\Site\dwg\01\Proposed-2025-016
7/7/2025 9:24 AM

APPENDIX A

Treatment Analysis

Parking and Drive Analysis



SLAMM for Windows Version 10.5.0

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Data file name: C:\Data\Jobs\2025\2025-016 - Culvers - Germantown - TRIO\Project_Information\Calcs\SLAMM\Parking and Drive.mdb

Data file description:

Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Milwaukee WI 1969.RAN

Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx

Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx

Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdx

Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std

Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False

Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NURP Source Area PSD Files.csv

Cost Data file name:

If Other Device Pollutant Load Reduction Values = 1, Off-site Pollutant Loads are Removed from Pollutant Load % Reduction calculations

Seed for random number generator: -42

Start of Winter Season: 12/06 End of Winter Season: 03/28

Model Run Start Date: 01/05/69 Model Run End Date: 12/31/69

Date of run: 07-07-2025 Time of run: 08:33:26

Total Area Modeled (acres): 0.760

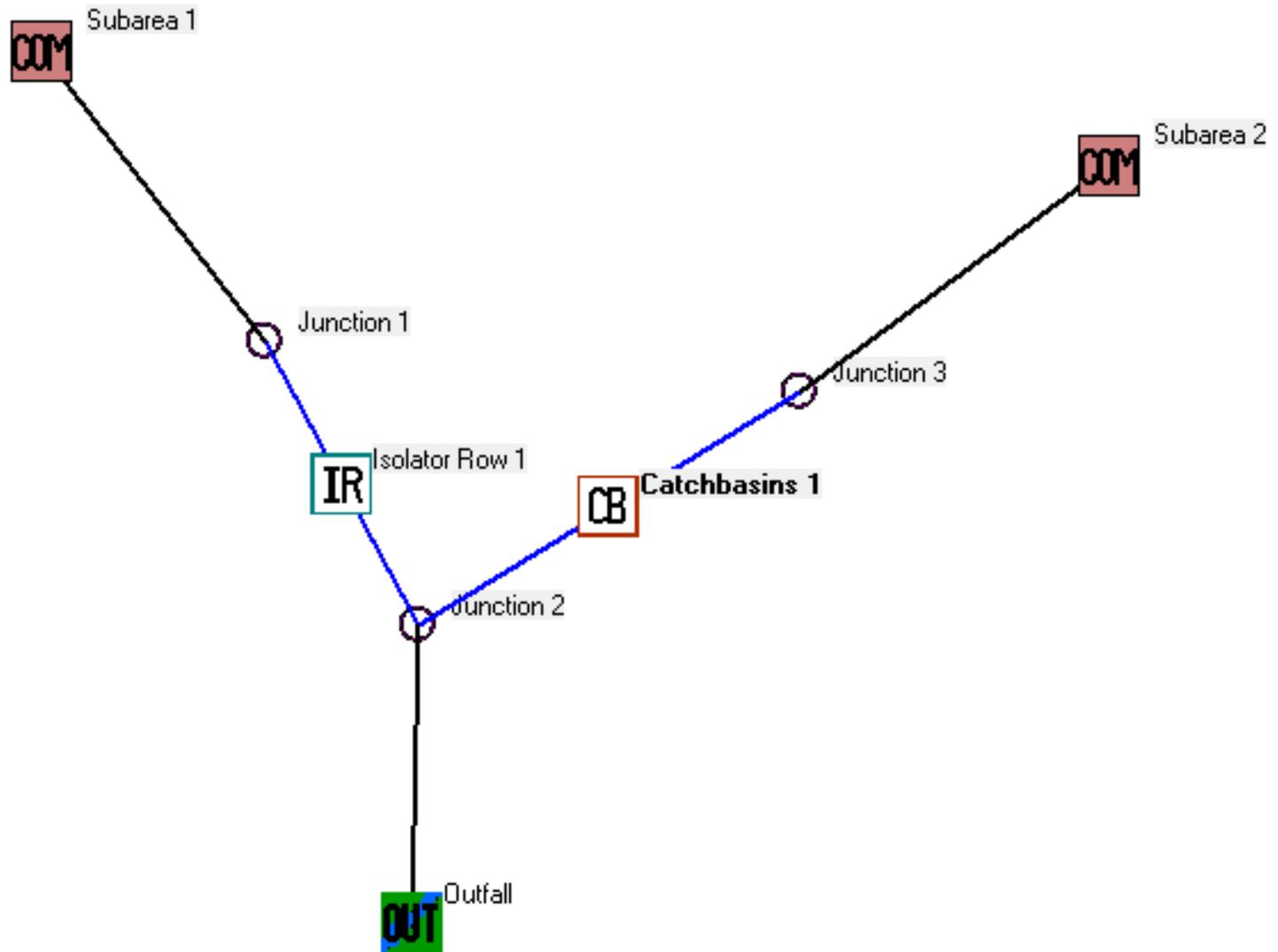
Years in Model Run: 0.99

	Runoff Volume (cu ft)	Percent Runoff Volume Reduction	Particulate Solids Conc. (mg/L)	Particulate Solids Yield (lbs)	Percent Particulate Solids Reduction
Total of all Land Uses without Controls:	58387	-	140.1	510.7	-
Outfall Total with Controls:	58385	0.00%	140.1	510.7	0.00%
Annualized Total After Outfall Controls:	59196			517.8	

Data file name: C:\Data\Jobs\2025\2025-016 - Culvers - Germantown - TRIO\Project_Information\Calcs\SLAMM\Parking and Drive.mdb
WinSLAMM Version 10.5.0
Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Milwaukee WI 1969.RAN
Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx
Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx
Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std
Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False
Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdx
Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NURP Source Area PSD Files.csv
Cost Data file name:
If Other Device Pollutant Load Reduction Values = 1, Off-site Pollutant Loads are Removed from Pollutant Load % Reduction calculations
Seed for random number generator: -42
Study period starting date: 01/05/69 Study period ending date: 12/31/69
Start of Winter Season: 12/06 End of Winter Season: 03/28
Date: 07-07-2025 Time: 08:33:33
Site information:

LU# 1 - Commercial: Parking and Drive Total area (ac): 0.760
 13 - Paved Parking 1: 0.440 ac. Connected Source Area PSD File: C:\WinSLAMM Files\NURP.cpz
 25 - Driveways 1: 0.320 ac. Connected Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

Treatment Analysis



SLAMM for Windows Version 10.5.0
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Data file name: C:\Data\Jobs\2025\2025-016 - Culvers - Germantown - TRIO\Project_Information\Calcs\SLAMM\Proposed_Culvers.mdb
 Data file description:
 Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Milwaukee WI 1969.RAN
 Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx
 Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx
 Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdX
 Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
 Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
 Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
 Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
 Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
 Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std
 Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False
 Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NURP Source Area PSD Files.csv
 Cost Data file name:
 If Other Device Pollutant Load Reduction Values = 1, Off-site Pollutant Loads are Removed from Pollutant Load % Reduction calculations
 Seed for random number generator: -42
 Start of Winter Season: 12/06 End of Winter Season: 03/28
 Model Run Start Date: 01/05/69 Model Run End Date: 12/31/69
 Date of run: 07-07-2025 Time of run: 08:30:13
 Total Area Modeled (acres): 0.970
 Years in Model Run: 0.99

	Runoff Volume (cu ft)	Percent Runoff Volume Reduction	Particulate Solids Conc. (mg/L)	Particulate Solids Yield (lbs)	Percent Particulate Solids Reduction
Total of all Land Uses without Controls:	69439	-	122.9	532.8	-
Outfall Total with Controls:	69007	0.62%	75.59	325.6	38.89%
Annualized Total After Outfall Controls:	69965			330.2	

Total loading removed = 532.8 - 325.6 = 207.2 lbs

Data file name: C:\Data\Jobs\2025\2025-016 - Culvers - Germantown - TRIO\Project_Information\Calcs\SLAMM\Proposed_Culvers.mdb

WinSLAMM Version 10.5.0

Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Milwaukee WI 1969.RAN

Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx

Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx

Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std

Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False

Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdx

Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NURP Source Area PSD Files.csv

Cost Data file name:

If Other Device Pollutant Load Reduction Values = 1, Off-site Pollutant Loads are Removed from Pollutant Load % Reduction calculations

Seed for random number generator: -42

Study period starting date: 01/05/69 Study period ending date: 12/31/69

Start of Winter Season: 12/06 End of Winter Season: 03/28

Date: 07-07-2025 Time: 08:31:21

Site information:

LU# 1 - Commercial: Subarea 1 Total area (ac): 0.800

1 - Roofs 1: 0.100 ac. Flat Connected Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

13 - Paved Parking 1: 0.430 ac. Connected Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

25 - Driveways 1: 0.150 ac. Connected Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

31 - Sidewalks 1: 0.070 ac. Connected Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

51 - Small Landscaped Areas 1: 0.050 ac. Normal Clayey Medium/High Density No Alleys Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

LU# 2 - Commercial: Subarea 2 Total area (ac): 0.170

25 - Driveways 1: 0.140 ac. Connected Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

51 - Small Landscaped Areas 1: 0.030 ac. Normal Clayey Medium/High Density No Alleys Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

Control Practice 1: Isolator Row CP# 1 (DS) - Isolator Row 1

Total available system length (ft) = 107

Total available system width (ft) = 6

Available height from chamber base to surface (ft) = 3.00

Number of isolator rows = 1

Native soil infiltration rate (in/hr) = 0.13

Assumed stone porosity () = 0.40

Sizing option: Number of rows and row length

Number of rows = 1

Row length (ft) = 107

Selected Chamber Information

Chamber type: SC-310

Chamber height (in): 16.00

Chamber width (in): 34.00

Chamber segment length (in): 85.40

Final storage volume (cf): 675.9333

Number of rows: 1

Row length (ft): 107.0

Total system length (ft): 107.0

Total system width (ft): 2.8

Number of chambers: 15

Overflow weir invert elevation (ft) = 1.50

Orifice 1 invert elevation (ft) = 0.25

Orifice 1 diameter (ft) = 1.00

Drain Tile Present

Control Practice 2: Catchbasin Cleaning CP# 1 (DS) - Catchbasins 1

1. Fraction of area served by catchbasins = 1.00
2. Number of catchbasins = 1
3. Average sump depth below catchbasin outlet invert (feet) = 3
4. Depth of sediment in catchbasin sump at beginning of study period (ft) = 0
5. Typical outlet pipe diameter (ft) = 1
6. Typical outlet pipe Mannings n = 0.013
7. Typical outlet pipe slope (ft/ft) = 0.02
8. Typical catchbasin sump surface area (square feet) = 6
9. Total catchbasin depth (feet) = 8
10. Inflow hydrograph peak to average flow ratio = 3.8
11. Leakage rate through sump bottom (in/hr) = 0
12. Catchbasin Critical Particle Size File Name: Not needed - calculated by program