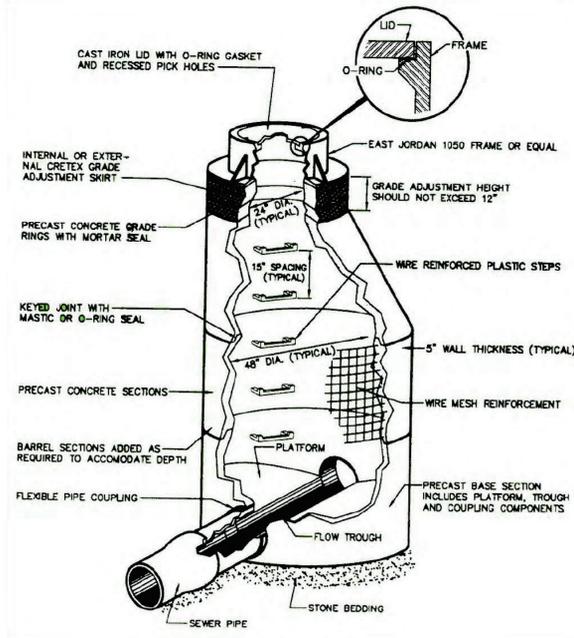


**Thorn Creek Basin Sanitary District
Standard Manhole Detail
(Not to Scale)**



SPECIFICATIONS

- Notes:
- 4" FPT Inlet/Outlet with 4" plain end adapters, single inlet and triple outlet.
 - Unit weight - w/ cast iron covers: 190 lbs. (For wet weight add 1,043 lbs.)
 - Maximum operating temperature: 150° F continuous
 - Capacities - Liquid: 125 gal.
Grease: 861 lbs. (116 gal.) @75 GPM
Solids: 31 gal.
 - For gravity drainage applications only.
 - Do not use for pressure applications.
 - Cover placement allows full access to tank for proper maintenance.
 - Vent not required unless per local code.
 - Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping.
 - Integral air relief / Anti-siphon / Sampling access.
 - Adjustable cover adapter provides up to 4" of additional height.
 - Designed for below-grade, above-grade, indoor and outdoor installations.
 - Safety Star® access restrictor built into cover adapter, prevents accidental entry to tank (450 lb rating).

ENGINEER SPECIFICATION GUIDE

Schier Great Basin™ grease interceptor model # GB-75 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter, Safety Star® access restrictor built into each cover adapter, and three outlet options. Interceptor shall be certified to ASME A112.14.3 (Type D) and CSA B481.1. Interceptor flow rate shall be 75 GPM. Interceptor grease capacity shall be 861 lbs. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

CERTIFIED PERFORMANCE

Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1, grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

Type D certification does not require a flow control

SPECIFICATION SHEET

MODEL NUMBER: GB-75	PART NUMBER: 4045-007-02
DESCRIPTION: GB-75 GREASE INTERCEPTOR 75 GPM, 4" INLET/OUTLET, H-20 RATED CAST IRON COVER	
DWG BY: C. BUSENITZ	DATE: 4/14/2022
REV: -	ECO: -



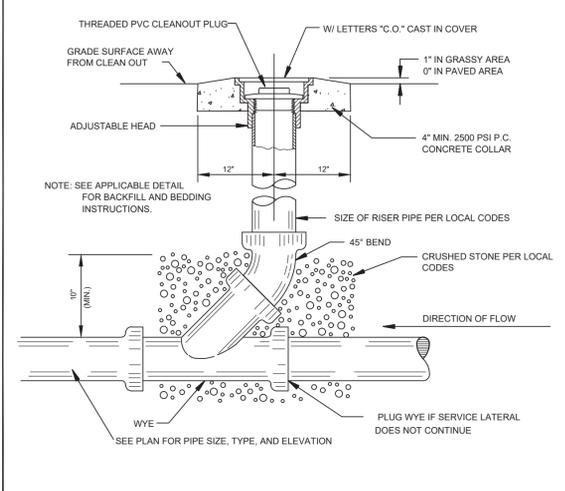
SCHIER
6455 Woodland Dr
Shawnee, KS 66218
Tel: 913-951-3300
Fax: 913-951-3399
schierproducts.com

GREASE TRAP SPECIFICATION

NOT TO SCALE

SEWER CLEANOUT DETAIL

NOT TO SCALE



ARC DESIGN
RESOURCES INC.

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

www.arcdesign.com
Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

RESTAURANT WITH DRIVE-THRU

3047 183RD STREET
HOMEWOOD, IL
COOK COUNTY

ALRIG USA
RACHEL DELANEY
RACHEL@ALRIGUSA.COM
(248) 909-7072

CONSULTANTS

ISSUED FOR

ITEM	DATE
1. SITE PLAN REVIEW	8/13/2024
2. ---	---
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4. ---	---
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REVISIONS

ITEM	DATE
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5. ---	---
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SHEET TITLE

SEWER DETAILS

DRAWN	ARM
CHECKED	LND
PM	RCS

PROJECT NUMBER
SHEET NUMBER

23129

C-10

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8 (200)
CAST-IN-PLACE CONCRETE	6 (150)
CONCRETE MASONRY UNIT	5 (125)
PRECAST REINFORCED CONCRETE SECTION	3 (75)

GENERAL NOTES
Bottom slabs shall be reinforced with a minimum of 0.24 sq. in./ft. (210 sq. mm/m) in both directions with a maximum spacing of 10 (250).
Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-14	Increased height to 32 (1800) maximum.
1-1-11	Detailed rein. in slabs. Added max. limit to height. Added general notes.

INLET - TYPE A
STANDARD 602301-04

ALTERNATE MATERIALS FOR WALLS	T (min.)
Concrete Masonry Unit	5 (125)
Brick Masonry	8 (200)
Precast Reinforced Concrete Section	3 (75)
Cast-in-Place Concrete	6 (150)

GENERAL NOTES
Bottom slabs shall be reinforced with a minimum of 0.20 sq. in./ft. (20 sq. mm/m) in both directions with a maximum spacing of 12 (300).
Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.
See Standard 602601 for optional Precast Reinforced Concrete Flat Slab Top.
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Detailed rein. in slabs. Added max. limit to height. Revised general notes.
1-1-09	Switched units to English (metric).

INLET - TYPE B
STANDARD 602306-03

FLAT SLAB TOP JOINT CONFIGURATIONS FOR D = 36 (900) AND D = 4'-0" (1.22 m)
(Shown at access hole)

SECTION THRU FLAT SLAB TOP FOR D = 36 (900) AND D = 4'-0" (1.22 m)

PLAN - FLAT SLAB TOP FOR D = 36 (900)
(Showing layout of reinforcement bars and c bars)

PLAN - FLAT SLAB TOP FOR D = 36 (900)
(Showing layout of welded wire reinforcement and c bars)

GENERAL NOTES
The flat slab top may be used in lieu of the tapered tops shown on Standards 602001, 602016, or 602036 at the option of the Contractor or when field conditions prohibit the use of tapered tops.
Lifting holes shall be located in the sections as per the manufacturer's recommendations.
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Expanded / refined reinforcement options.
1-1-18	Revised for compliance with LRFD.

PRECAST REINFORCED CONCRETE FLAT SLAB TOP
(Sheet 1 of 2)
STANDARD 602601-06

FLAT SLAB TOP REINFORCEMENT FOR D = 36 (900)

Location	WWR (each direction)	Rebar
Top	A _s (min.) Spacing (max.)	A _s (min.) Spacing (max.) Bar Size
Bottom	* 0.60 sq. in./ft. (150)	See plan view for rebar orientation and spacing and this table for bar size (#13)
Mat	(1270 sq. mm/m)	

FLAT SLAB TOP REINFORCEMENT FOR D = 4'-0" (1.22 m)

Location	WWR (each direction)	Rebar
Bottom	A _s (min.) Spacing (max.)	A _s (min.) Spacing (max.) Bar Size
Mat	* 0.62 sq. in./ft. (150)	See plan view for rebar orientation and spacing and this table for bar size (#16)
	(1312 sq. mm/m)	

FLAT SLAB TOP REINFORCEMENT FOR D = 5'-0" (1.52 m)

Location	WWR (each direction)	Rebar (each direction except as noted)
Top	A _s (min.) Spacing (max.)	A _s (min.) Spacing (max.) Bar Size
Mat	* 0.40 sq. in./ft. (150)	See plan view for rebar orientation and spacing and this table for bar size (#13)
Bottom	(847 sq. mm/m)	

* Only one layer of WWR permitted to avoid congestion.

DATE	REVISIONS
1-1-19	Expanded / refined reinforcement options.
1-1-18	Revised for compliance with LRFD.

PRECAST REINFORCED CONCRETE FLAT SLAB TOP
(Sheet 2 of 2)
STANDARD 602601-06

ARC DESIGN RESOURCES INC.
5281 ZENITH PARKWAY
LOVES PARK, IL 61111
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FAX: (815) 484-4303
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Illinois Design Firm License No. 184-001334

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CONSULTANTS

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REVISIONS

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SHEET TITLE

SEWER DETAILS

DRAWN: ARM
CHECKED: LND
PM: RCS

PROJECT NUMBER
SHEET NUMBER

23129
C-12

PROJECT INFORMATION	
ENGINEER PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	



COFFEE SHOP HOMEWOOD, IL, USA

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- 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 LFD 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 PRESSIONS.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2797, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (+1 MM) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WHEEL) 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 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 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 1.56 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2797 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM D218 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 SITE DESIGN ENGINEER. SEE TECH 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 KNOWN/LEADABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE". STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
 - STONESHOOTER 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 - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- 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.

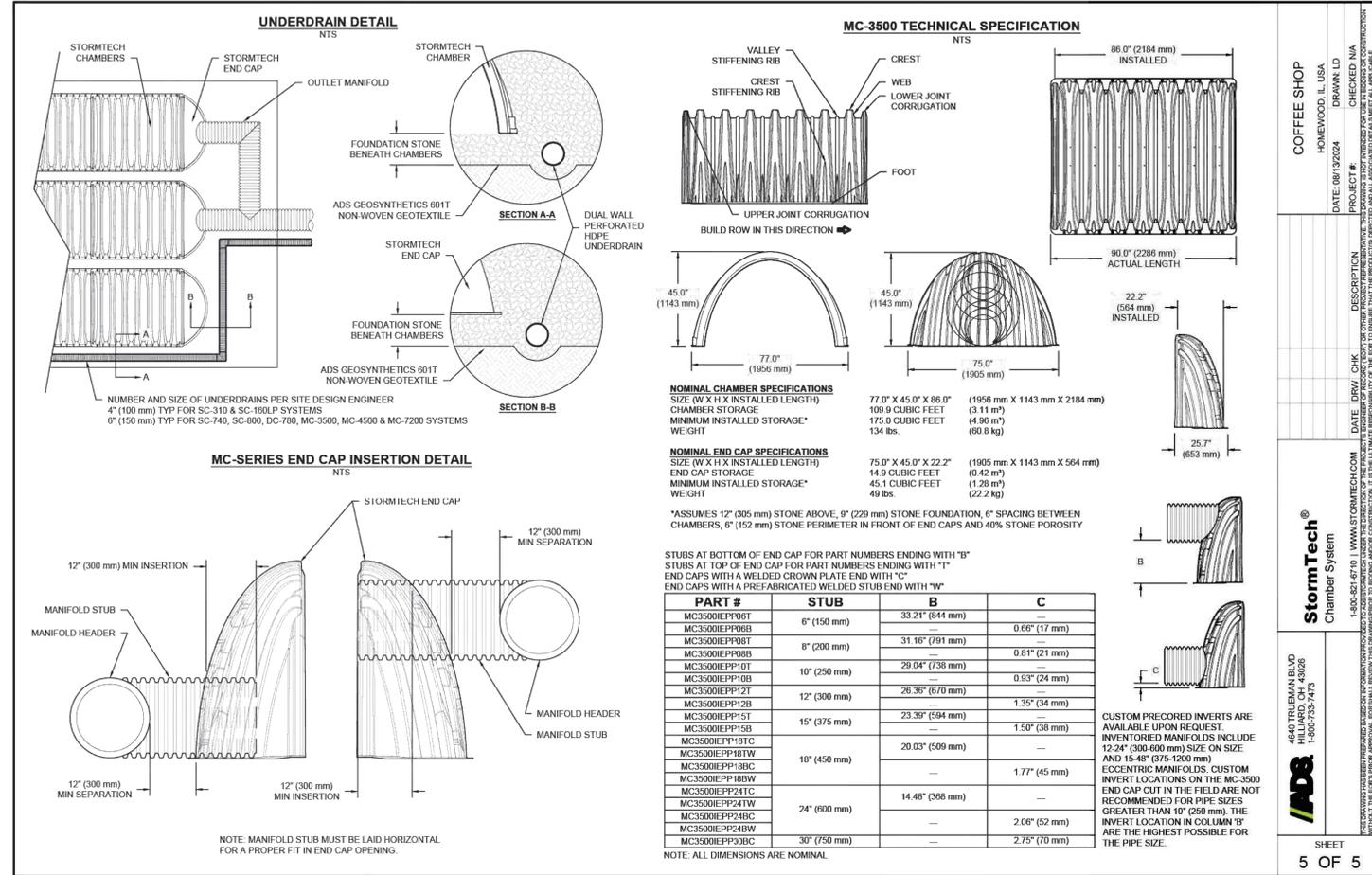
NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRE LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNLESS PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- FILL 30" (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 CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING 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.

PROPOSED LAYOUT	PROPOSED ELEVATIONS:	PART TYPE	ITEM ON LAYOUT	DESCRIPTION	*INVERT ABOVE BASE OF CHAMBER	INVERT	MAX FLOW
46. STORMTECH MC-3500 CHAMBERS	MINIMUM ALLOWABLE GRADE (TOP OF PAVEMENT) UNPAVED: 677.00						
47. STORMTECH MC-3500 CHAMBERS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC): 677.00						
12. STONE ABOVE (B)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC): 676.50		A	24" BOTTOM CORED END CAP, PART# MC3500EPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS		2.00"	
3. STONE BELOW (B)	MINIMUM ALLOWABLE GRADE (TOP OF ROAD CONCRETE PAVEMENT): 676.50						
36. STONE VOIDS	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT): 676.50		B	18" x 18" BOTTOM MANIFOLD, ADS N-12 CONNECTIONS		1.77"	
8774. INSTALLED SYSTEM VOLUME (CF)	TOP OF STONE						
	TOP OF MC-3500 CHAMBER		C	INSTALL FLAMP ON 24" ACCESS PIPE / PART# MCFLAMP			
	TOP OF ISOLATOR ROW PLUS INVERT		D	18" x 18" BOTTOM MANIFOLD, ADS N-12		1.77"	
	TOP OF MC-3500 CHAMBER (BASE STONE INCLUDED)		E	18" x 18" BOTTOM MANIFOLD, ADS N-12		1.77"	
	TOP OF ISOLATOR ROW PLUS INVERT		F	18" BOTTOM CONNECTION		1.77"	
	TOP OF MC-3500 CHAMBER (BASE STONE INCLUDED)		G	CONCRETE STRUCTURE			8.0 CFS OUT
	TOP OF ISOLATOR ROW PLUS INVERT		H	DESIGN BY ENGINEER / PROVIDED BY OTHERS			
	TOP OF MC-3500 CHAMBER (BASE STONE INCLUDED)		I	DESIGN BY ENGINEER / PROVIDED BY OTHERS			20.9 CFS IN
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	TOP OF MC-3500 CHAMBER (BASE STONE INCLUDED)						
	TOP OF ISOLATOR ROW PLUS INVERT						
	TOP OF MC-3500 CHAMBER (BASE STONE INCLUDED)						
	TOP OF ISOLATOR ROW PLUS INVERT						
	TOP OF MC-3500 CHAMBER (BASE STONE INCLUDED)						
	TOP OF ISOLATOR ROW PLUS INVERT						
	TOP OF MC-3500 CHAMBER (BASE STONE INCLUDED)						
	TOP OF ISOLATOR ROW PLUS INVERT						



COFFEE SHOP
HOMEWOOD, IL USA
DATE: 08/13/2024
DRAWN: LD
PROJECT #
CHECKED: N/A
DESCRIPTION
DATE: DRW / CHK
1-800-521-6710 | WWW.STORMTECH.COM
FOR ALL INFORMATION REGARDING THIS DRAWING, PLEASE CONTACT THE SALES DEPARTMENT AT 1-800-521-6710. IT IS THE USER'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS AND TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED. THE USER ASSUMES ALL LIABILITY FOR ANY AND ALL DAMAGES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING FROM THE USE OF THIS DRAWING.

StormTech®
Chamber System

4540 TRUMAN BLVD
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1-800-521-6710

SHEET
5 OF 5

ARC DESIGN
RESOURCES INC.

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

www.arcdesign.com
Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

RESTAURANT WITH DRIVE-THRU

3047 183RD STREET
HOMEWOOD, IL
COOK COUNTY

ALRIG USA
RACHEL DELANEY
RACHEL@ALRIGUSA.COM
(248) 909-7072

CONSULTANTS

ISSUED FOR

NO.	DESCRIPTION	DATE
1.	SITE PLAN REVIEW	8/13/2024
2.	---	---
3.	---	---
4.	---	---
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9.	---	---
10.	---	---
11.	---	---
12.	---	---

REVISIONS

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

SHEET TITLE

ADS DETAIL

DRAWN: ARM
CHECKED: LND
PM: RCS

PROJECT NUMBER
SHEET NUMBER

23129

C-14