

Collier County
Public Utilities Division
Wastewater

Christopher Mitchell, P.E.
J.R. Evans Engineering, Inc.
9351 Corkscrew Rd., Suite 102
Estero, FL 33928
cmitchell@jreeng.com

August 18, 2016

RE: Utility Deviation Form
Skilllets (Hogan Plaza, 7685 Collier Blvd, Suite 101)
Approved – Schier Great Basin grease interceptor, GB-250

Mr. Mitchell,

Upon review of information submitted for the above referenced request, the Wastewater Department – Environmental Compliance Section conditionally approves your request to install Schier Great Basin, Model GB-250 grease interceptor in lieu of the standard precast concrete grease interceptor. The Wastewater Department – Environmental Compliance Sections is requesting that you follow and adhere to the manufacturer recommended cleaning schedule of “90 days between pump out.”

Grease is a continuing maintenance problem for the Collier County Wastewater Department. Collier County reserves the right to reconsider this deviation from the Utility Standards based on the type of restaurant that ultimately occupies this space or in the event of grease-related problems. Additionally, per the Collier County Pretreatment Ordinance 2012-13, Page 28; Section M. Fats, Oils and Grease (FOG) Program FOG, 1-h : If grease accumulates in any wastewater collection line(s), the owner or operator shall be billed for all direct and indirect costs and expenses of cleaning such lines and for any other expenses incurred by the County with regard thereto.

If there would be any future modifications to this facility that would require a Collier County Building Permit, the Wastewater Department reserves the right to require a re-submittal of a Grease Trap deviation request.

Should you have any questions, please contact; Sam Jenkins, Industrial Pretreatment Coordinator, Environmental Compliance Section, Collier County Wastewater Department, (239) 252-6886.

Sincerely,



Sam Jenkins, Industrial Pretreatment Coordinator
Collier County Wastewater Department

SJ/jj

Copy: Lizabeth Johnssen, Wastewater Director
Steve Nagy, Wastewater Collections Manager
Nancy Zikmanis, Environmental Compliance Manager

Eric Fey, PUD Planning & Project Management
Brett Rosenblum, Engineering Review
Greg Yanda, Wastewater Pretreatment Inspector
Roy Hendry, Wastewater Pretreatment Inspector



UTILITY DEVIATION FORM

Petitioners Request

Date: _____

☒ **Wastewater**

☐ **Water**

☐ **IQ Water**

REQUIRED - Site Development Plan # (SDP#) _____ - or - Subdivision Improvement #(PPL#) _____

Project Name: Stock Plaza (fka Hogan Plaza) ☒ Privately Owned ☐ County Owned

Project Address: 7685 Collier Blvd, Naples, FL 34119 34113 188

Petitioners Name & Business Name: Chris Mitchell, P.E., J.R. Evans Engineering

Business Address: 9351 Corkscrew Road, Suite 102, Estero, FL 33928

Phone # 239-682-2248 Fax # 239-288-2537 Email cmitchell@jreeng.com

Reason for request? The proposed grease interceptor serving the Skillet's restaurant

is polyethylene, with a liquid capacity of 275 gallons, with a max flow rate rating of 100 GPM.

REQUIRED FORMS

For all Deviation Request unless specified.

- ☒ Blue Prints / Site Drawings
- ☒ Detail Specifications
- ☒ Menu & Seating only for Grease Trap Deviations
- ☐ Cover Letter w/ Pertinent Information

How does this request differ from Ordinance? The proposed grease interceptor does not meet the following requirements specified in WW-18 and WW-18A: 750 gallon min volume, made of precast concrete, minimum liquid depth requirement, two riser requirement, inlet location requirement, two chamber requirement, effective capacity requirement as determined by the equation in WW-18A.

Impact of this request on affected area? There should be no adverse impacts on the affected area.

Impact of this request on the maintenance of the system? There should be no adverse impacts on the maintenance of the system.

Explain benefits this request will have to the operation/maintenance of the Collier County Utility system:

There are no intrinsic benefits nor should there be adverse impacts on the operation/maintenance of the system.

Additional Comments: Please find included with this deviation request a grease interceptor sizing worksheet, the GB-250 Specification Sheet, and the seating plan and menu for Skillet's.

COUNTY STAFF ONLY

Routing for Review:

(Initials)

Staff Comments:

Stake & Locates	Approve: _____	Disapprove: _____
WW Pretreatment Inspector	Approve: <u>[Signature]</u>	Disapprove: _____
WW Laboratory Supervisor	Approve: <u>[Signature]</u>	Disapprove: _____
WW Collections Manager	Approve: _____	Disapprove: _____
Water Distribution Manager	Approve: _____	Disapprove: _____
IQ Water Manager	Approve: _____	Disapprove: _____
Planning & Project Mgmt. Dept.	Approve: _____	Disapprove: _____
W or WW Department Director	Approve: _____	Disapprove: _____

Must Service every 90 day
1- GB-250

Authorizing Signature: [Signature]
Collier County Utility Director

Date: 8/18/16

GREASE INTERCEPTOR SIZING WORKSHEET

STOCK PLAZA @ LELY RESORT

UNIT: 101

RESTAURANT: SKILLETS

GREASE INTERCEPTOR PROPOSED: GB 250

*GREASE STORAGE PROVIDED: 1,076 LBS

*MIN. GREASE STORAGE REQUIRED 731.25 LBS

MEALS PER DAY	RESTAURANT TYPE	GREASE (LBS/MEAL)	PUMP OUT CYCLE (DAYS)	*MIN. GREASE STORAGE REQUIRED (LBS)
250	MEDIUM GREASE, WITH FLATWARE	0.0325	90	731.25

*GREASE INTERCEPTOR STORAGE CAPACITY AND SIZING CALCULATION BASED ON SCHIER PRODUCTS GREAT BASIN SIZING WORKSHEET, PAGE 4-5 OF FOLLOWING
LINK: <http://schierproducts.com/pages/sizing>

J.R. EVANS ENGINEERING

9351 CORKSCREW ROAD, STE. 102 / ESTERO, FL 33928 / 239.405.9148 (p) / 239.288.2537 (f)

WWW.JREVAENGINEERING.COM

SPECIFICATIONS

1. 4" inlet/outlet Sch. 40, Plain End (No-Hub)
2. Max flow rate: 100 GPM
3. Liquid capacity: 275 Gallons
4. Max grease capacity: 1,076 lbs. (147.4 Gallons)
5. Max solids/sediment capacity: 105 Gallons
6. Unit weight w/std. covers: 230 lbs.
7. Maximum operating temperature 190 °F continuous.
8. Highway Rated cover: 16,000 lb. capacity (standard)
9. Seamless molded polyethylene tank.

NOTES

1. Listed by IAPMO to ASME grease interceptor standard #A112.14.3 and CSA B481.1
2. Factory installed Built-in Flow control.
3. For gravity drainage applications only. Do not use for pressure applications.
4. Seamless high density polyethylene tank.
5. Unit supplied with built-in adapter(s) for up to 6" of adjustability. Additional riser(s) available for deeper burial depth.
6. Cover placement allows full access to tank for proper maintenance.
7. Vent not required unless per local code.
8. Narrow footprint allows clearance through doorways and down stairwells.
9. Engineered inlet and outlet diffusers are removable to inspect/clean piping.
10. For on-the-floor or buried applications.
11. Integral air relief / Anti-siphon / Sampling access.
12. Three outlet options for easy rough in. Unit shipped with outlet diffuser in outlet "B".

DIFFUSION FLOW TECHNOLOGY

The inlet diffuser splits incoming effluent into two paths that utilize the entire liquid volume of the tank for efficient grease separation. The calibrated openings greatly reduce effluent turbulence. The effluent enters the main chamber without disturbing the existing grease or sediment layers.

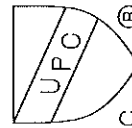
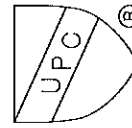
The integral air relief / anti-siphon in the top of the outlet diffuser allows pressure stabilization within the unit during operation. The bottom of the outlet diffuser allows only effluent which is free of grease to exit the tank. It can easily be attached to any of the three outlets provided to ease jobsite piping layouts.

ENGINEER SPECIFICATION GUIDE

Schier Great Basin™ grease interceptor model # GB-250 shall be lifetime Guaranteed and made in USA of seamless, rotationally-molded High Density Polyethylene. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A112.14.3 (type C) and CSA B481.1, with field adjustable riser system, built-in flow control, built-in test caps and three outlet options. Interceptor flow rate shall be 100 GPM. Interceptor grease capacity shall be 1,076 lbs. Cover shall provide water/gas-tight seal and have minimum 2,000 lbs. load capacity.

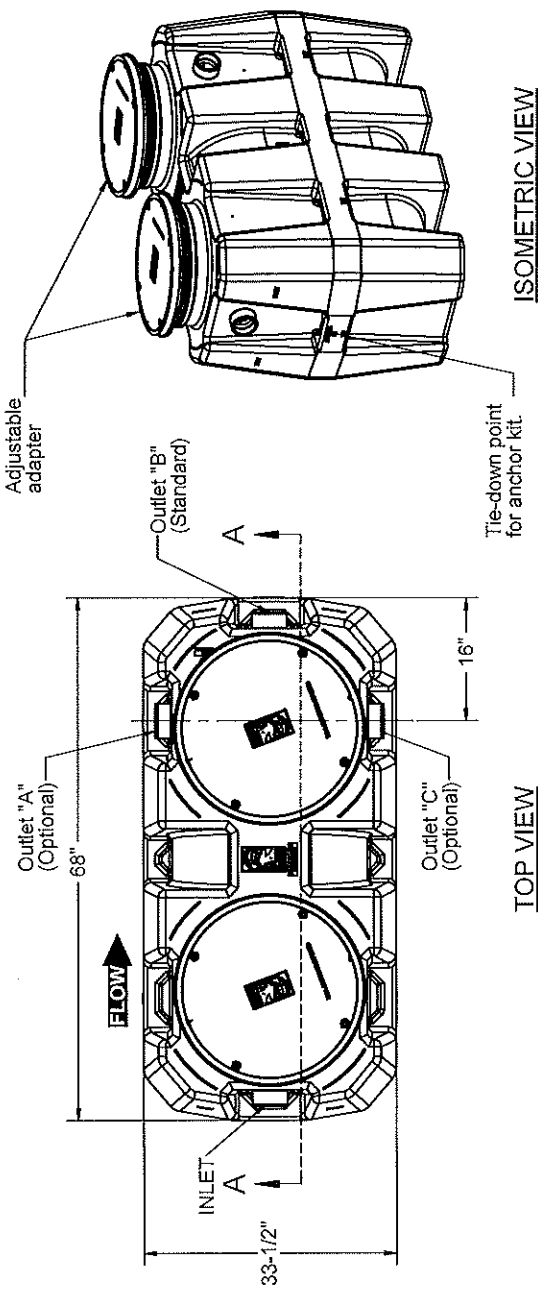
OPTIONS:

- H20 rated Cast Iron Cover: 20,000lb capacity
- Pedestrian rated cover: 2,000 lb. capacity
- Teleglide field adjustable risers for extending covers to grade
- Male pipe thread connections
- 6" Plain end pipe connections (Inlet/Outlet "B" only)
- High water anchor kit
- Clamping collar kit

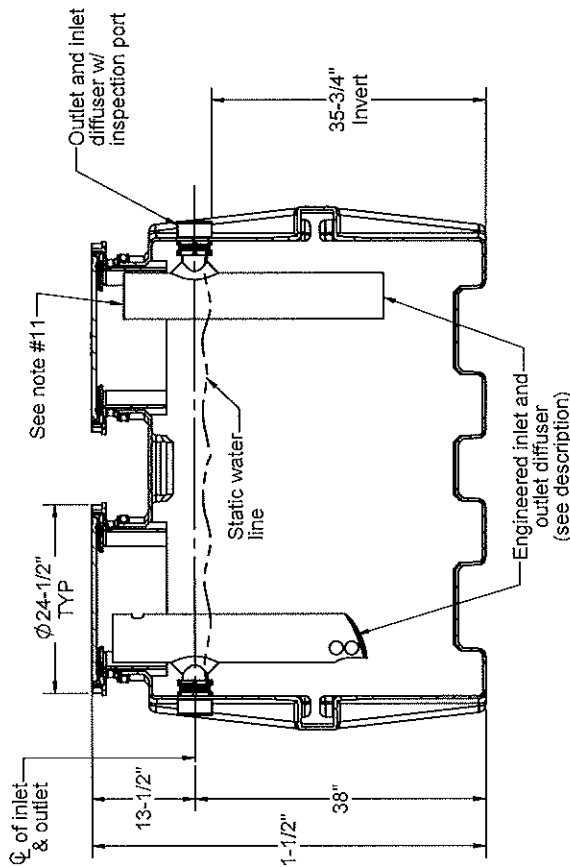


PROPRIETARY AND CONFIDENTIAL

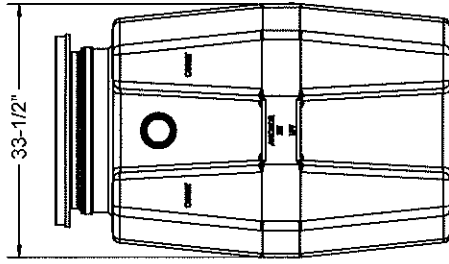
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SCHIER PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF SCHIER PRODUCTS IS PROHIBITED.



TOP VIEW



SECTION "A-A"



SPECIFICATION SHEET

MODEL NUMBER: GB-250	PART NUMBER: 4055-001-XX
DESCRIPTION: 100 GPM POLYETHYLENE GREASE INTERCEPTOR	
DWG BY: N.EBERT	DATE: 07/02/2014
REV: 9	ECO: 1035



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Made in the U.S.A.