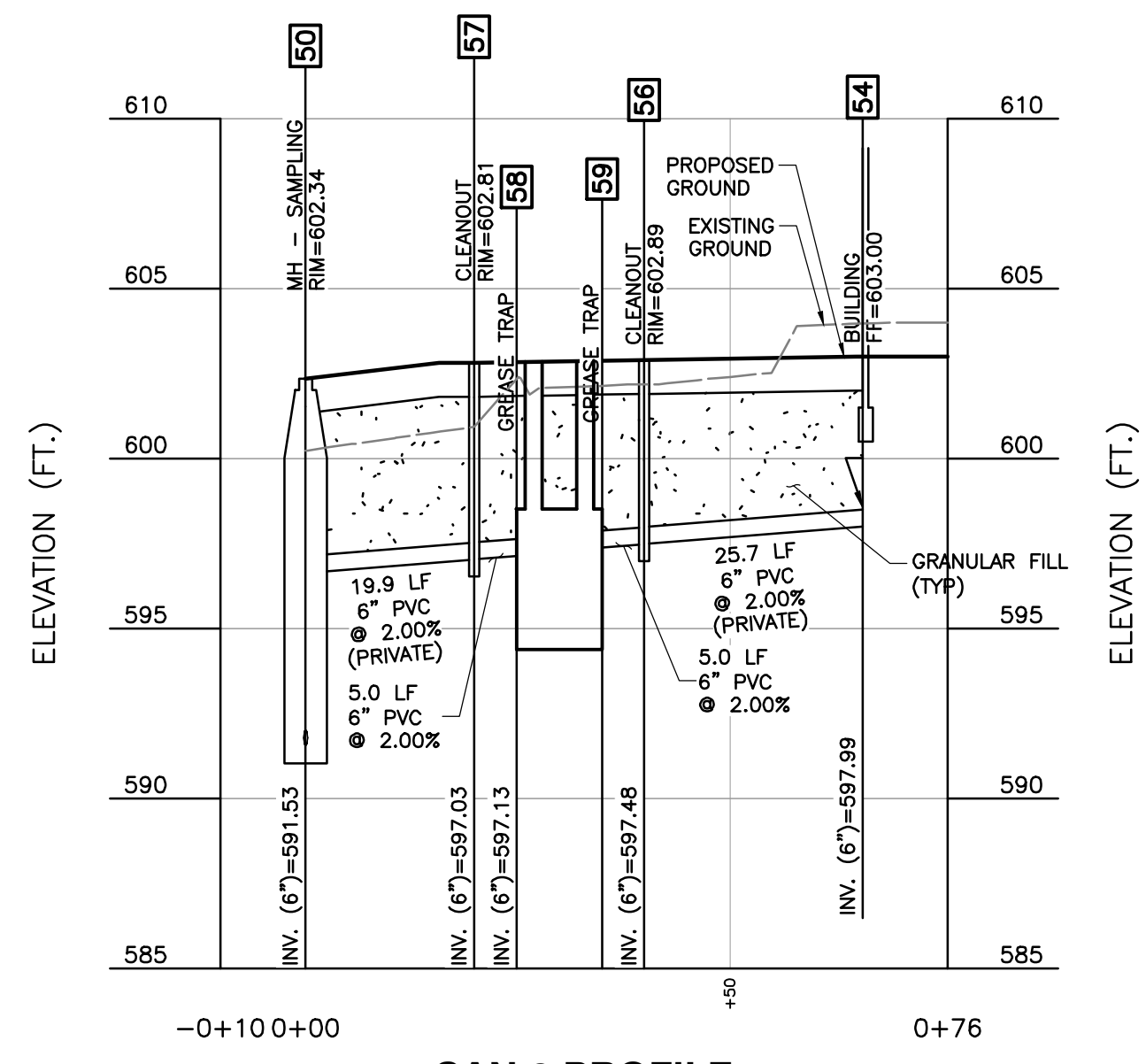
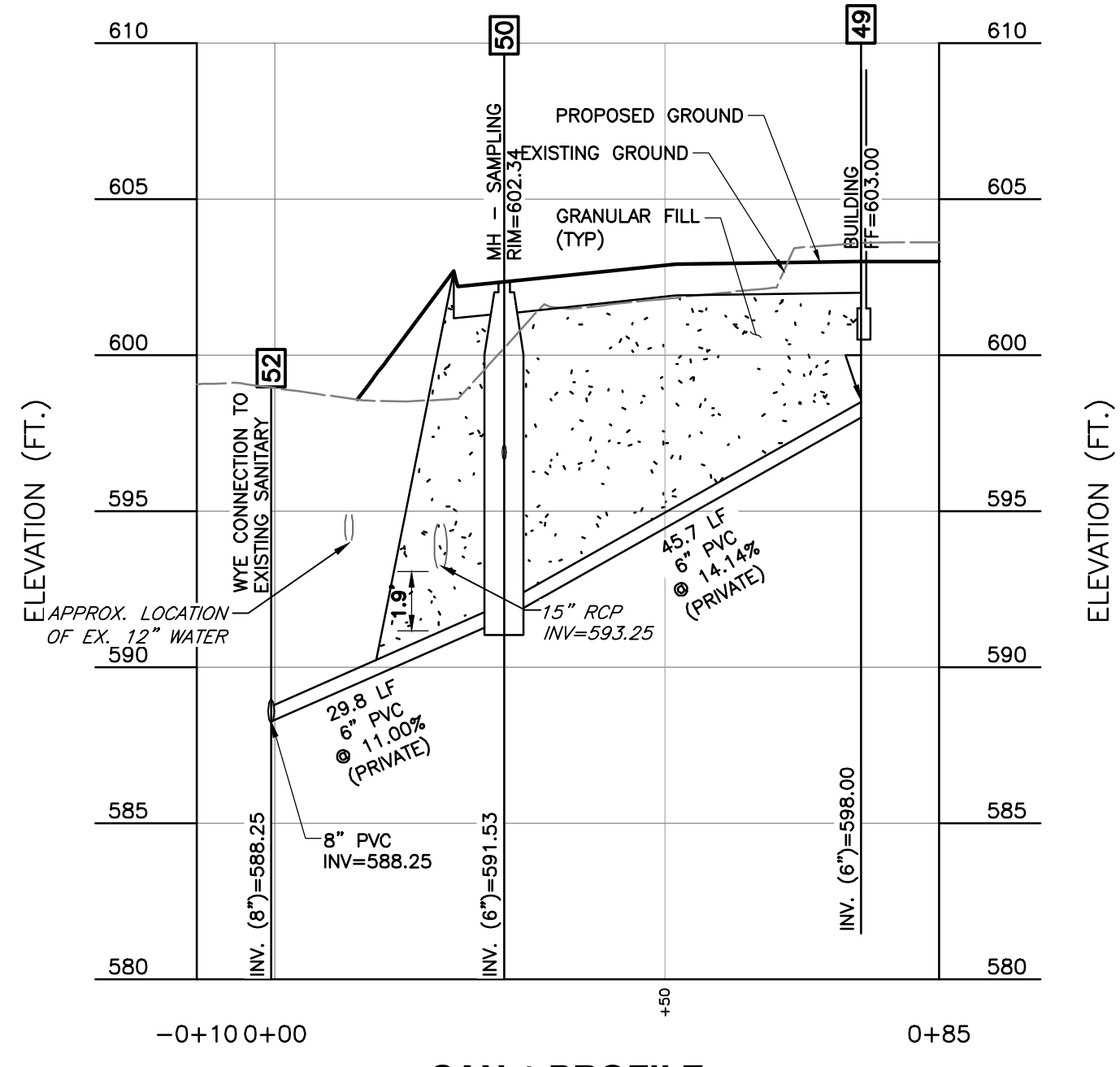
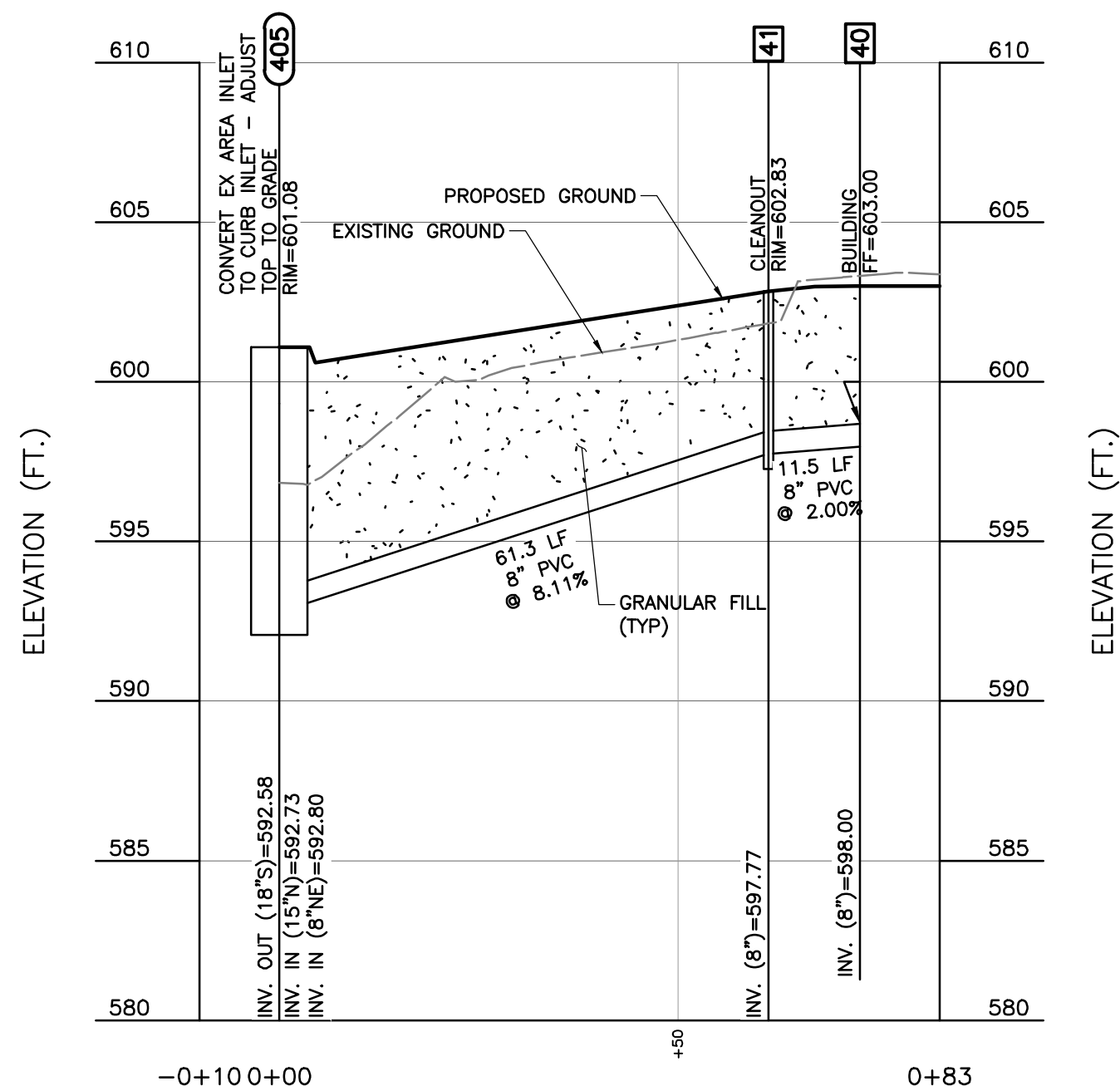




FUTURE INFORMATION:					
NAME	TYPE	FLOW RATE	OTHER	QTY.	
3-COMP. SINK	3-COMPARTMENT SINK	GPM (1-MINUTE DRAIN TIME): 46.636 GPM (2-MINUTE DRAIN TIME): 21.818	DFU: 6 CAPACITY: 58.182 GAL.	1	
FLOOR SINK/DRAIN	FLOOR SINK	GPM (1-MINUTE DRAIN TIME): 5 GPM (2-MINUTE DRAIN TIME): 2.5	DFU: 2 CAPACITY: 0 GAL.	11	
MOP SINK - MS-1	MOP BASIN	GPM (1-MINUTE DRAIN TIME): 22.442 GPM (2-MINUTE DRAIN TIME): 11.221	DFU: 3 CAPACITY: 29.922 GAL.	2	
VEGETABLE PREP SINK	PREP SINK ONE BOWL	GPM (1-MINUTE DRAIN TIME): 4.675 GPM (2-MINUTE DRAIN TIME): 2.338	DFU: 2 CAPACITY: 6.234 GAL.	1	
WAREWASHER (ECCOLAB QSR TSC)	DOOR TYPE	GPM (1-MINUTE DRAIN TIME): 60 GPM (2-MINUTE DRAIN TIME): 30	DFU: 2 CAPACITY: 60 GAL.	1	
TOTALS:		GPM (1-MINUTE DRAIN TIME): 208.19 GPM (2-MINUTE DRAIN TIME): 104.1	DFU: 38 CAPACITY: 184.26 GAL.		

SIZING DETAILS:

PROJECT INFORMATION
CONSTRUCTIONS TYPE: NEW CONSTRUCTION
ADDITIONAL NOTES: McDONALD'S 4584 BUILDING - PROTOTYPICAL

LOCATION: OUTDOORS
BURIED: YES
HIGH WATER AREA: NO

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FLOW RATE CALCULATION:
FLOW RATE TO INTERCEPTOR = (LESSER OF FLOW RATE BY PIPE SIZE AND FLOW RATE BY
FIXTURES)
SIZE OF PIPE CONNECTED TO THE GREASE INTERCEPTOR: 4 IN.
DRAINAGE PERIOD: 2 MINUTES
FLOW RATE BY PIPE SIZE: 75 GPM
FLOW RATE BY FIXTURES, 2-MINUTE DRAINAGE PERIOD: 104.097 GPM
FLOW RATE BY FIXTURES, 1-MINUTE DRAINAGE PERIOD: 208.195 GPM
FLOW RATE USED TO SELECT GREASE INTERCEPTOR: 75 GPM
FIXTURE DUF: 38

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GREASE OUTPUT:
MENU TYPE: FAST FOOD - FULL PREP
FRYER IN KITCHEN: YES
FOOD WASTE DISPOSER: YES
NUMBER OF SEATS: 43 SEATS
GREASE PRODUCTION VALUE: 0.035 LBS. PER SERVING (6.02 LBS. PER DAY)

30-DAY GREASE PRODUCTION 180.6 LBS.
60-DAY GREASE PRODUCTION: 361.2 LBS.
90-DAY GREASE PRODUCTION: 541.8 LBS.

CALCULATION:
 GREASE OUTPUT=(NUMBER OF SEATS)x4(AVERAGE TURNS PER SEAT PER 24 HOURS)x(GREASE
 PRODUCTION VALUE)x(DAYS BETWEEN PUMP-OUT).

DETAIL

GREASE INTERCEPTOR
SCALE: NONE

SPECIFICATIONS

3. Fill TIE outlet with #4 plain ends and greases, single inlet and tie/outlet.
4. Unload Grease - Least on Grease: 528 lbs. (For wet weight add 2.24 times output)
5. Maximum operating temperature: 150°F continuous
6. Capacities - Least on Grease: 510 gal.
Grease: 3.045 lbs. (417 gal.) @100 GPM
Solids: 120 gal.
7. Grease is for manual control. For series installations, only install flow control on the first unit in the series if necessary.
8. Do not grease with a grease gun.
9. Do not use for pressure applications.
10. Cover placement allows full access to tanks for proper maintenance.
11. A Vent shall be installed downstream of grease interceptors.
12. Engineered inlet and outlet diffusers with inspection ports.
13. Integral air relief / Anti-siphon / Sumping access.
14. Additional venting adapters provide up to 4" of additional height.
15. Designed for below-grade, above-grade, indoor or outdoor.
16. Safety / Safety: access restrictor built into each cover and designed to prevent accidental entry to tanks (450 lb rating).

ENGINEER SPECIFICATION GUIDE

Schier Great Basin™ grease interceptor model # GB-500 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 7/16" uniform wall thickness. Flow control cartridge shall be PVC. 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 A112.143 (Type C) and CSA B481.1. Interceptor flow rate shall be 100 GPM. Interceptor grease capacity shall be 3,048 lbs. Cover shall provide water/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.

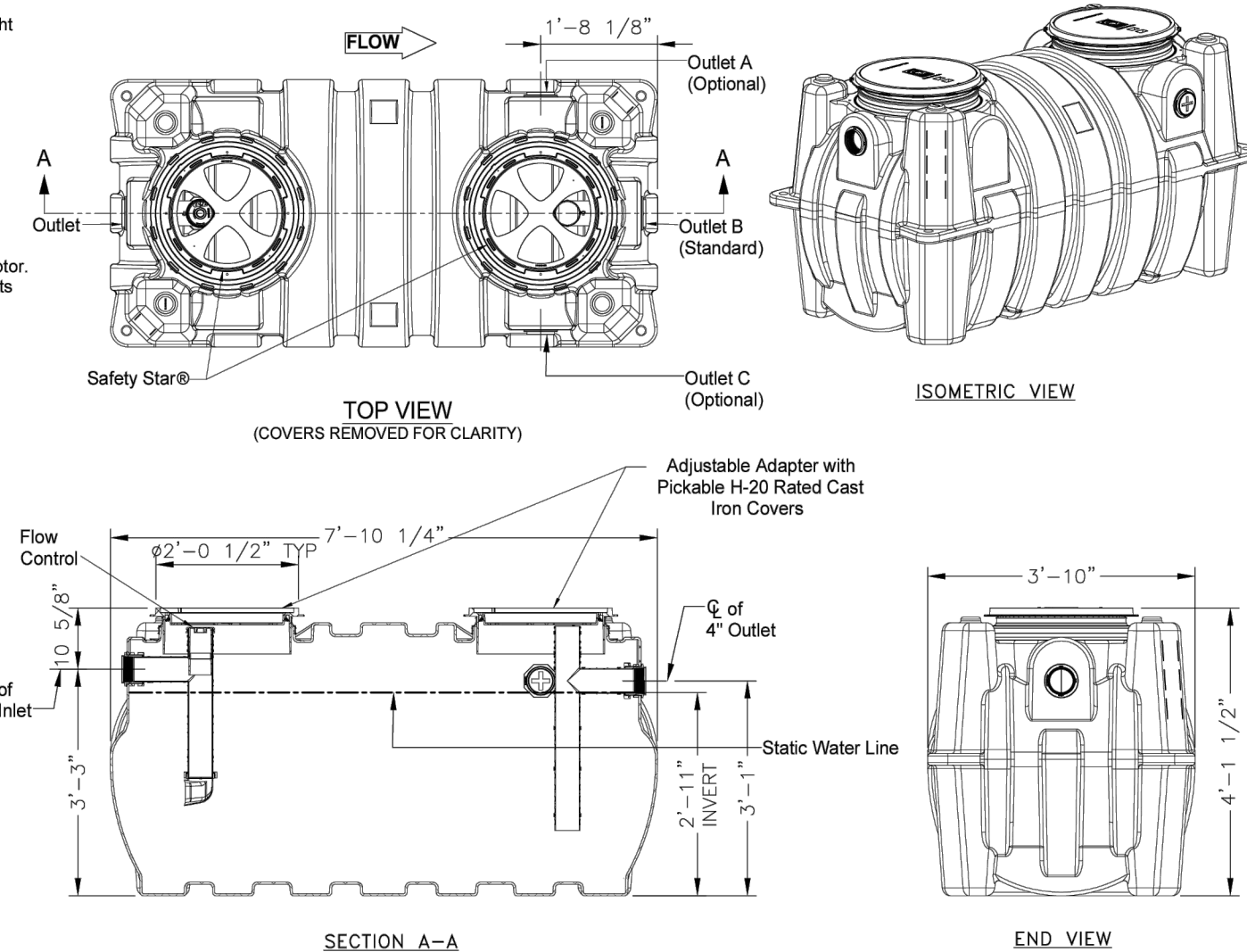
SPECIFICATION SHEET

MODEL NUMBER:	PART NUMBER:	4075-001-01
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GB-500

DESCRIPTION:
GB-500 GREASE INTERCEPTOR 100 GPM, 4" INLET/OUTLET, H-20 RATED
CAST IRON COVERS

DWG BY: C. BUSENITZ	DATE: 4/14/2022	REV: -	ECO: -
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 **SCHIER**

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

NOTES:

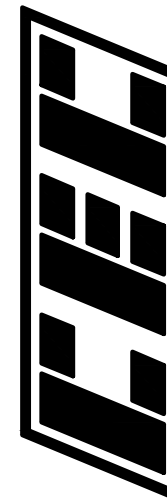
1. REFER TO SHEET C001 FOR GENERAL NOTES AND ABBREVIATIONS.
2. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THIS PROJECT.

City of O'Fallon Standard Notes and Details - July 2019

McDONALD'S

CONSTRUCTION PLAN

A TRACT OF LAND BEING LOT 4 OF "BRYAN ROAD COMMERCIAL, PLAT 1" RECORDED AS DOCUMENT 2023R-038185 IN THE ST CHARLES COUNTY RECORDS, BEING IN THE SOUTHWEST QUARTER OF FRACTIONAL SECTION 30, TOWNSHIP 47 NORTH, RANGE 3 EAST OF THE FIFTH PRINCIPAL MERIDIAN, CITY OF O'FALLON, ST. CHARLES COUNTY, MISSOURI



**Civil & Environmental
Consultants, Inc.**



PATRICK T. BENNETT
(MO PE# 2002003134)
PROFESSIONAL CIVIL ENGINEER
*HAND SIGNATURE ON FILE

DRAWN BY:	MNL
CHECKED BY:	QAS
APPROVED BY:	PTB
PROJECT NO:	336-366

Developer / Owner Information
MCDONALD'S RESTAURANT
 NSN 43008 (024-1305)
 962 BRYAN ROAD
 O'FALLON, MISSOURI

SEWER PROFILES

P+Z No. 24-001803
Approval Date 04/08/2024
Permit No.

Page No.

C502

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