



MADONNA ENGINEERING INC.

Date: October 31, 2011

City of Surrey
Plumbing Department
14245-56 Avenue
Surrey, British Columbia
V3X 3A2

Attention: Joel Morrell - Plumbing Inspector
Cc: Greg Stairs – Copper Gordon

**RE: Cora Breakfast and Lunch
Peninsula Village Shopping Centre, 15355 – 24 Ave
Surrey, British Columbia**

**MEI FILE NO. 11-0145
File No: B 11-29966**

We are writing to you in response to the plumbing review comments and requested information, as prepared by the City of Surrey, Plumbing Inspector, Joel Morrell and dated October 20, 2011.

The following is our response;

- 1 All water lines have been sized in accordance with the British Columbia Building Code and POABC Interpretation, "Water Pipe Sizing Tables."
- 2 It is our opinion that the water piping is not undersized. No flush valves will be utilized for this project. All water closets are tank type pressure assist and the urinal is equipped with a metering flush valve. Please refer to our Plumbing Fixture Schedule.
- 3 Piping materials have been specified as follows;

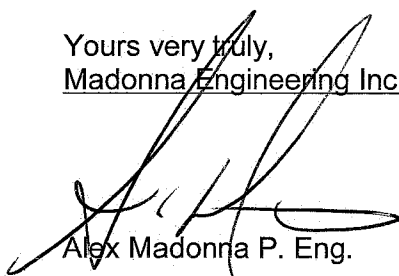
a. Domestic Cold/Hot and Recirculation piping –	Type-L Copper.
b. Vent piping and condensate drain piping -	DWV copper or DWV CPVC
c. Above Ground Sanitary drain -	Cast Iron or DWV CPVC
d. Underground -	Cast Iron or PVC
- 4 Total fixture loading is as follows;

a. Potable Cold Water -	73 FU
b. Potable Hot Water -	38 FU
c. Sanitary -	88 FU
- 5 The grease interceptor specified for this project is a 75 GAL model. Please refer to the plumbing fixture schedule and the attached cut sheet. We believe this unit to be a "dual port unit."

- 6 Please refer to the attached mechanical post tender addendum PTADDM1 which adds premise isolation to the mechanical documents.
- 7 Backflow devices are included as follows;
 - a. Vacuum breaker for hose bibb, "HB". Please refer to plumbing drawing note number 4.
 - b. Back flow prevention assembly for item 60. Please refer to plumbing drawing note number 9.
 - c. Back flow prevention assembly for item 33. Please refer to plumbing drawing note number 10.
 - d. Back flow prevention assembly for item 34. Please refer to plumbing drawing note number 11.
 - e. All tank water closets WC-1, WC-2 and WC-3 will be equipped with a back-siphonage preventer. Please refer to plumbing drawing note number 19.
- 8 All water closets specifications have been revised to 4.8 liters per flush. Please refer to the Plumbing fixture schedule for all other plumbing fixture flow rates.
- 9 Water hammer arrestors have been added to the domestic water distribution piping. In particular all domestic water cold water piping serving the water closets, laundry sink/hose bibb supply piping and the domestic hot water piping serving the dishwasher. Please refer to plumbing drawing note numbers 2, 4, 14, 15, 16 and 17 attached.

Please refer to mechanical plans Post Tender Addendum PTADDM1 and sketches SKM-PTADDM1-M1.1, M1.2, M1.3, SKM-PTADDM1-M4.1, M4.2 attached with this letter.

Yours very truly,
Madonna Engineering Inc.


Alex Madonna P. Eng.

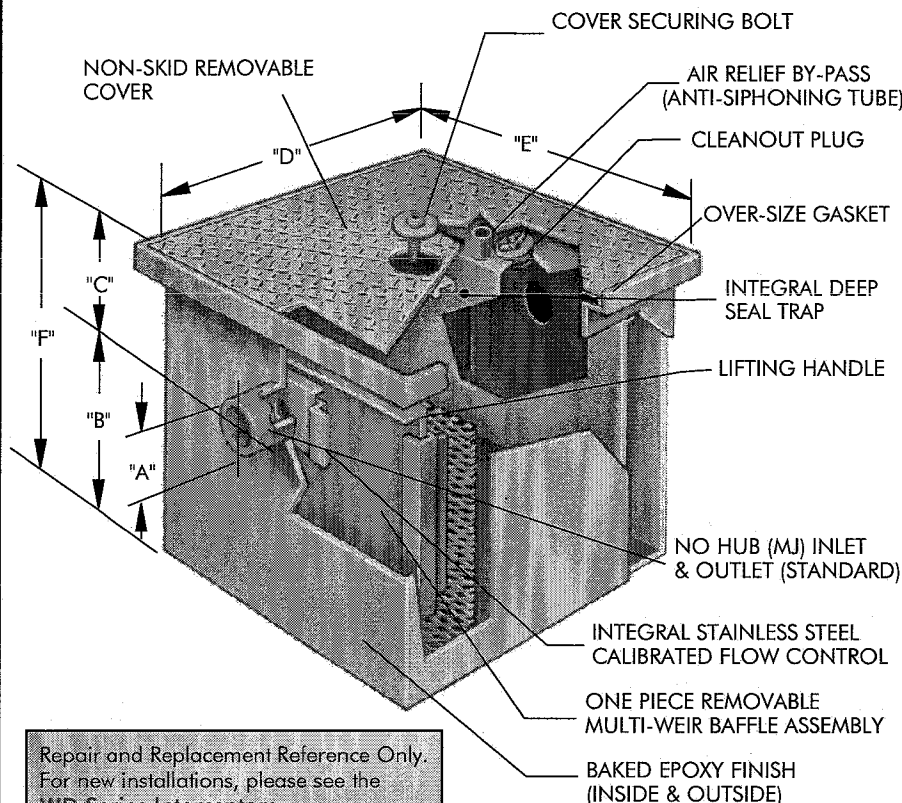


**GI-100**

Tag: _____

**Grease Interceptor
on Floor or Semi-Recessed**

SPECIFICATION: Watts Drainage Products GI-100 epoxy coated inside and outside fabricated steel grease interceptor with flow rating of 4 to 75 GPM and grease capacity of 7 to 150 LBS. Unit shall include one piece removable multi-weir baffle assembly, code approved deep seal trap, cover securing bolt(s), stainless steel calibrated orifice plate.

Order Code: **GI-** ☐ - ☐ - ☐Ex. **GI-104-T-F**

Repair and Replacement Reference Only.
For new installations, please see the
WD Series Interceptors.
Latest information is available online
at www.wattsdrainage.ca

Flow Rate (Select One)		
Suffix	Description	
104	4 GPM	<input type="checkbox"/>
107	7 GPM	<input type="checkbox"/>
110	10 GPM	<input type="checkbox"/>
115	15 GPM	<input type="checkbox"/>
120	20 GPM	<input type="checkbox"/>
125	25 GPM	<input type="checkbox"/>
135	35 GPM	<input type="checkbox"/>
150	50 GPM	<input type="checkbox"/>
175	75 GPM	<input type="checkbox"/>

Options (Select One or More)		
Suffix	Description	
-B	Lift Out Bucket	<input type="checkbox"/>
-DI	Dual Inlet	<input type="checkbox"/>
-E	Initial Supply of Biomix Powder 2 lbs	<input type="checkbox"/>
-F	Flange	<input type="checkbox"/>
-FC	Flange w/ Mem. Clamp	<input type="checkbox"/>
-HDC	Heavy Duty Cover	<input type="checkbox"/>
-IP	Injection Port (specify location)	<input type="checkbox"/>
-O	Inlet & Outlet other than standard	<input type="checkbox"/>
-SS	Stainless Steel	<input type="checkbox"/>
-T	Threaded Connections	<input type="checkbox"/>

Optional Inlet/Outlet Sizes (When -O is selected above)		
Suffix	Description	
-2	2"(51) Inlet/Outlet	<input type="checkbox"/>
-3	3"(76) Inlet/Outlet	<input type="checkbox"/>
-4	4"(102) Inlet/Outlet	<input type="checkbox"/>
-6	6"(152) Inlet/Outlet	<input type="checkbox"/>

Cubic Capacity of Fixtures in Inches	Interceptor Catalog Number	Grease Capacity Lbs	Flow Rate GPM	A	B	C	D	E	F
				Inlet & Outlet	Base to Center	Top to Center	Length	Width	Height
up to 1000	GI-104	7	4	2"(51)	9-1/2"(241)	4"(102)	12"(305)	12"(305)	13-1/2"(343)
1001 to 2150	GI-107	14	7	2"(51)	9-1/2"(241)	4"(102)	12"(305)	12"(305)	13-1/2"(343)
2151 to 3000	GI-110	20	10	2"(51)	8-1/2"(216)	6"(152)	18"(457)	12"(305)	14-1/2"(368)
3001 to 4600	GI-115	30	15	2"(51)	12-1/2"(318)	6"(152)	20-7/8"(530)	16-7/8"(429)	18-1/2"(470)
4601 to 6150	GI-120	40	20	3"(76)	14-1/2"(368)	6"(152)	20-7/8"(530)	19-7/8"(505)	20-1/2"(521)
6151 to 7700	GI-125	50	25	3"(76)	16-1/2"(419)	6"(152)	20-7/8"(530)	19-7/8"(505)	22-1/2"(572)
7701 to 10750	GI-135	70	35	4"(102)	14-1/2"(368)	6"(152)	32-7/8"(835)	24-7/8"(632)	20-1/2"(521)
10751 to 15400	GI-150	100	50	4"(102)	18-1/2"(470)	6"(152)	32-7/8"(835)	24-7/8"(632)	24-1/2"(622)
15401 to 23000	GI-175	150	75	4"(102)	26-1/2"(673)	6"(152)	40-7/8"(1038)	24-7/8"(632)	32-1/2"(825)

Job Name _____ Contractor _____

Job Location _____ Contractor's P.O. No. _____

Engineer _____ Representative _____

WATTS Drainage reserves the right to modify or change product design or construction without prior notice and without incurring any obligation to make similar changes and modifications to products previously or subsequently sold. See your WATTS Drainage representative for any clarification. Dimensions are subject to manufacturing tolerances.

CANADA: 5435 North Service Road, Burlington, ON, L7L 5H7 TEL: 905-332-6718 TOLL-FREE: 1-888-208-8927 Website: www.wattsdrainage.ca

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