

PROJECT MEMO



TO: Mark Higginson
City of Puyallup

DATE: February 19, 2024

FROM: Todd Sawin, PE
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PROJECT NO.: 2230752.10

PROJECT NAME: ETC

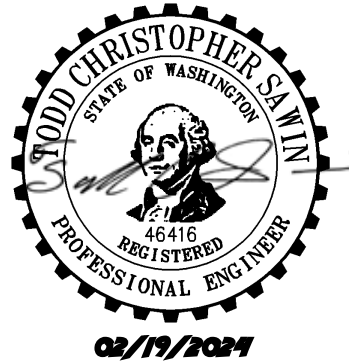
SUBJECT: Grease Interceptor Sizing

This memo is intended to provide sizing for the two 1500-gallon grease interceptors shown on the accompanying civil plans. While the exact tenants of the commercial buildings is unknown we have made assumptions based on proposed uses of the buildings for plumbing fixtures that may be needed to support the use. These calculations (attached) show 54 fixture units for the Building 2 and 66 fixture units for Building 1. The calculations use the tables in the Uniform Plumbing Code for sizing. The proposed 1500-gallon grease interceptors have a capacity of 172 DFU which far exceeds the expected flow from the building and allow additional fixtures within the building as tenants change and the need for additional fixtures may be warranted. The grease interceptor capacity will be verified at time of tenant improvement of the space to ensure the sizing meets the City's requirements.

TCS/

c: Greg Helle
Brett Lindsay

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Grease Interceptor Sizing Calculation ETC

2/19/2024

| Type of Fixture | Building 2,3,4 | | | Fixture units from UPC | | Building A | | |
|--|----------------------|----------------------|----------------------|------------------------|---|------------|-----------|-----------|
| | Suite 4 Coffee | Suite 3 Restaunt | Suite 2 Yoga | # of DFU's | Assumptions | Suite A | Suite B | Suite C |
| | Number of Fixures | Number of Fixures | Number of Fixures | | | DFU's | DFU's | DFU's |
| 3-compartment sink | 1 | 1 | | 9 | | 9 | 9 | 0 |
| 2 compartment sink | | 1 | | 6 | 3 each compartment | 0 | 6 | 0 |
| Floor sink | 1 | 1 | | 3 | Based on Drain size - assume 1.5" | 3 | 3 | 0 |
| Mop sink | 1 | 1 | | 3 | | 3 | 3 | 0 |
| Floor drains | 1 | 1 | | 2 | | 2 | 2 | 0 |
| Trench Drain | | | | 2 | per LF of trench drain | 0 | 0 | 0 |
| Soup Kettle | | | | 2 | per LF of trench drain | 0 | 0 | 0 |
| Braziers | | | | 2 | per LF of trench drain | 0 | 0 | 0 |
| Steam Table | | | | 3 | Based on Drain size - assume 1.5" | 0 | 0 | 0 |
| Dishwasher pre-rinse sink | 1 | 1 | | 3 | | 3 | 3 | 0 |
| Dishwasher | 1 | 1 | | 4 | Based on Drain size - assume 2" | 4 | 4 | 0 |
| Food waste disposers, including pulpers | | 1 | | | Next larger size GGI than otherwise required | 0 | 0 | 0 |
| Subtotal | | | | | | 24 | 30 | 0 |
| Total | | | | | | | | 54 |

1500 gallon grease interceptor for 172 DFU's
Assume Gravity Greas Interceptor

| Type of Fixture | Building 1 | | Fixture units from UPC | | Building A | | |
|--|-------------------|---------------|---|-----------|------------|--|--|
| | Number of Fixures | # of DFU's | Assumptions | DFU's | | | |
| | | | | | | | |
| 3-compartment sink | 2 | 9 | | 18 | | | |
| 2 compartment sink | 2 | 6 | 3 each compartment | 12 | | | |
| Floor sink | 1 | 3 | Based on Drain size - assume 1.5" | 3 | | | |
| Mop sink | 1 | 3 | | 3 | | | |
| Floor drains | 8 | 2 | | 16 | | | |
| Trench Drain | | 2 | per LF of trench drain | 0 | | | |
| Soup Kettle | | 2 | per LF of trench drain | 0 | | | |
| Braziers | | 2 | per LF of trench drain | 0 | | | |
| Steam Table | | 3 | Based on Drain size - assume 1.5" | 0 | | | |
| Dishwasher pre-rinse sink | 2 | 3 | | 6 | | | |
| Dishwasher | 2 | 4 | Based on Drain size - assume 2" | 8 | | | |
| Food waste disposers, including pulpers | | | Next larger size GGI than otherwise required | 0 | | | |
| Subtotal | | | | 66 | | | |
| Total | | | | 66 | | | |

1500 gallon grease interceptor for 172 DFU's
Assume Gravity Greas Interceptor