


SECTION
NO SCALE
(INTERIOR PIPING SHOWN
FULL SECTION FOR CLARITY)

GALLON CAPACITY	600	750	950	1000	1250	1500	1750	2000	2500	2750	3000	4000	5000	6000
DIM "A"	7'-0"	7'-0"	7'-0"	9'-0"	9'-0"	11'-2"	11'-2"	12'-8"	12'-8"	12'-8"	15'-7"	15'-7"	19'-11"	19'-11"
DIM "B"	4'-8"	4'-8"	4'-8"	5'-0"	5'-0"	5'-8"	5'-8"	6'-8"	6'-8"	6'-8"	9'-7"	9'-7"	9'-11"	9'-11"
DIM "C"	7'-0"	7'-0"	7'-0"	7'-2"	7'-2"	7'-2"	7'-2"	8'-0"	8'-0"	8'-0"	8'-6.5"	8'-6.5"	8'-11"	8'-11"
DIM "D"	3'-6"	4'-3"	5'-3"	4'-2"	5'-2"	4'-4"	4'-11"	4'-7"	5'-6"	6'-0"	5'-0"	6'-3"	6'-2"	7'-2"
WATER DEPTH DIM "E"	3'-2"	3'-11"	4'-11"	3'-10"	4'-10"	4'-0"	4'-7"	3'-10"	4'-9"	5'-3"	3'-9"	5'-0"	4'-9"	5'-9"

Approved:  March 16, 2018
 City Engineer Date
SANITARY SEWER STANDARD DETAIL



Dwg No: **SS14**
GREASE INTERCEPTOR

EXTERIOR GREASE INTERCEPTOR NOTES:

1. LOCATE STRUCTURE ADJACENT TO DRIVE FOR ACCESS BY MAINTENANCE VEHICLE AND A MINIMUM OF 5- FEET FROM ANY BUILDING FOUNDATION.
2. FILL WITH CLEAN WATER PRIOR TO START UP OF SYSTEM.
3. INTERCEPTOR AND APPURTENANCES TO CLEANOUT SHALL BE MAINTAINED BY PRIVATE OWNER AND AN ANNUAL MAINTENANCE REPORT SHALL BE SUBMITTED TO THE CITY OF BONNEY LAKE.
4. CONNECTIONS TO VAULT WALLS WITH PVC PIPE SHALL BE MADE USING KOR-N-SEAL BOOT OR EQUAL. SEAL ALL PIPE CONNECTIONS WITH NON-SHRINK GROUT.
5. 6" PVC SHALL BE USED THROUGHOUT. TYPE OF PIPE PER CITY OF BONNEY LAKE STANDARDS.
6. TOP OF "TEES" TO BE KEPT OPEN.
7. A BALLCENTRIC VALVE SHALL BE LOCATED IN THE DISCHARGE PIPING, A MAXIMUM OF 3 FEET FROM THE GREASE INTERCEPTOR UPSTREAM OF THE CLEANOUT. THIS VALVE SHALL BE CLOSED WHEN CLEANING OR SERVICING THE DEVICE.
8. GRAY WATER ONLY. BLACK WATER SHALL BE CARRIED BY SEPARATE SIDE SEWER. A CLEAN-OUT SHALL BE INSTALLED DOWNSTREAM OF BALLCENTRIC VALVE PER DETAIL SS10.
9. THE PLANS SHALL ILLUSTRATE PROPERTY BOUNDARIES, PIPING/DRAINAGE DETAILS AND CONNECTIONS TO THE SANITARY SEWER. DETAIL AND ELEVATION DRAWINGS OF THE GREASE INTERCEPTOR SHALL INCLUDE UPC APPENDIX 'H' DESIGN CALCULATIONS TO SHOW CAPACITY, DETENTION TIME AND REMOVAL EFFICIENCIES.

NO. OF MEALS/PEAK HOUR X WASTE FLOW RATE X RETENTION TIME X STORAGE FACTOR = CAPACITY IN GALLONS
10. EFFLUENT FROM GREASE INTERCEPTORS SHALL NOT EXCEED 100 mg/l FAT, OIL AND GREASE DISCHARGED TO THE SANITARY SEWER.
11. GREASE INTERCEPTORS INSTALLED IN PAVED AREAS SHALL COMPLY WITH H-20 LOADING.
12. PLUMBING/PIPING SHALL BE CONSTRUCTED TO ESTABLISH "PARALLEL FLOW" (90 TO THE TANK BAFFLE) THROUGH THE GREASE INTERCEPTOR. NO RADIUS, BEND OR ELBOW SHALL BE ALLOWED IN THE INLET PIPE, FOR A MINIMUM OF 10 FEET OR 20 PIPE DIAMETERS, WHICHEVER IS GREATER, UPSTREAM OF THE INTERCEPTOR.
13. VENTING OF THE INTERCEPTOR SHALL BE IN ACCORDANCE WITH THE CURRENT UNIFORM PLUMBING CODE.
14. FINAL INSPECTION IS REQUIRED BY THE CITY OF BONNEY LAKE PRIOR TO CONNECTION TO THE SANITARY SEWER.
15. CONCRETE: 28 DAY COMPRESSIVE STRENGTH $f_c = 4500$ psi
16. REBAR: ASTM A-615 GRADE 60
17. MESH: ASTM A-185 GRADE 65
18. DESIGN: ACI-318-83 BUILDING CODE ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES"

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