NOTES:

1. SERVICE CONNECTION DETAILS ARE BASED ON VITRIFIED CLAY PIPE AND FITTINGS, MODIFY FOR OTHER APPROVED TYPES OF PIPE.

2. SEWER CLEAN-OUTS NOT IN PAVEMENT SHALL HAVE CONCRETE COLLAR 18"x18"x4" AROUND THEIR TOPS AND MUST BE INSTALLED AND ADJUSTED TO FINISHED GRADE AT THE RIGHT-OF-WAY/PROPERTY LINE

3. ALL PVC TO CLAY SERVICE CONNECTIONS UNDER LOAD BEARING SURFACES SHALL USE DFW NON-SHEAR FERNCO TYPE CONNECTORS OR APPROVED EQUAL.
PRE-CAST CONCRETE SHALL BE TYPE 2 CEMENT (4,000 PSI).
2. LIFT HOLES NOT PERMITTED THROUGH PRE-CAST SECTIONS
3. ALL OPENINGS SHALL BE SEALED WITH NON-SHRINK GROUT.
4. INSTALL FLOW CHANNEL INSIDE MANHOLES.
5. SERVICE LATERALS SHALL GENERALLY NOT BE PERMITTED DIRECTLY INTO MANHOLES.
6. PLACE TWO HALF-MOON SHAPED PLYWOOD (3/8" TH. MIN.) IN BOTTOM OF MANHOLE AFTER PIPES HAVE BEEN CONNECTED TO KEEP DEBRIS FROM ENTERING SEWER.
7. REINFORCING STEEL PER ASTM C478-88A.
8. PROVIDE 5' X 5' X 12" CONCRETE COLLAR AROUND COVER FRAME, WITH 4 - #4 REBAR E.W. IN UNPAVED AREAS.
9. INSTALL TRACING WIRE [GREEN] PER CITY DETAIL GU004.

<table>
<thead>
<tr>
<th>MANHOLE SIZE</th>
<th>MH DEPTH</th>
</tr>
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<tbody>
<tr>
<td>UP TO 24&quot; PIPE</td>
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</tr>
<tr>
<td>UP TO 36&quot; PIPE</td>
<td>60&quot; MANHOLE</td>
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<tr>
<td>OVER 36&quot; PIPE</td>
<td>72&quot; MANHOLE</td>
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<tr>
<td>UP TO 12'</td>
<td>48&quot;</td>
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<tr>
<td>12' TO 18'</td>
<td>60&quot;</td>
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<tr>
<td>18' AND DEEPER</td>
<td>72&quot;</td>
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<tr>
<td>A</td>
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<td>B</td>
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<td>C</td>
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<td>D</td>
<td>AS REQ'D</td>
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<tr>
<td>E</td>
<td>AS REQ'D</td>
</tr>
<tr>
<td>F</td>
<td>8&quot;</td>
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</table>
MANHOLE TO BE LINED

FLANGED 90° ELBOW AND SPOOL PIECE W/ S.S. BOLTS

FORCE MAIN

CONSTRUCT THROUGH TO MATCH EXISTING FLOW LINE

PRE-CAST MANHOLE WALL

FLUSH WITH MANHOLE WALL

FLUSH WITH MANHOLE WALL

CAN BE ALTERED TO MATCH EXISTING FLOW LINE

FLUSH WITH MANHOLE WALL

NOTES:

1. PENETRATION TO EXISTING MANHOLES SHALL BE CORE BORED.
2. DROP CONNECTION SHALL BE REQUIRED WHENEVER AN INFLUENT SEWER IS LOCATED TWO FEET OR MORE ABOVE THE MAIN INVERT CHANNEL.
3. ANY MANHOLE WITH PIPES ENTERING AT 45° OR GREATER TO THE FLOW LINE EXTENDED AND/OR WITH A DROP EQUAL TO OR GREATER THAN THE SMALLEST ENTERING PIPE DIAMETER SHALL BE LINED.
4. ANY MANHOLE DIRECTLY RECEIVING A FORCE MAIN MUST BE LINED.
5. LINING SPECIFICATIONS ARE PROVIDED IN THE COATING SECTION OF THE CITY’S APPROVED PRODUCTS LIST.

TYPICAL CONNECTION

TYPICAL MANHOLE CONNECTIONS

ISSUED 2017
REVISED 03/01/2017 BY DJB
CITY OF ALTAMONTE SPRINGS GREASE TRAP SIZING METHOD

(D) x (MF) x (GL) x (RT) x (ST) = CAPACITY IN GALLONS

D = NUMBER OF SEATS:

MF = MEAL FACTOR; BASED ON ESTABLISHMENT

TYPE AND TIME PER MEAL:

FAST FOOD / CAFETERIA = 30M use 2.00
RESTAURANT = 60M use 1.00
LEISURE DINING = 90M use 0.67
DINNER CLUB = 120M use 0.50

GL = GALLONS OF WASTEWATER PER MEAL:

WITH DISHWASHER = 6 GALLONS
WITHOUT DISHWASHER = 5 GALLONS
SINGLE SERVICE KITCHEN = 2 GALLONS
FOOD DISPENSER = 1 GALLON

RT = RETENTION TIME:

COMMERCIAL KITCHEN = 2.5 HOURS
SINGLE SERVICE KITCHEN = 1.5 HOURS

ST = STORAGE FACTOR:

8 HOURS = 1.0
12 HOURS = 1.5 (ALSO S.S. KITCHENS)
16 HOURS = 2.0
24 HOURS = 3.0

NOTE:

ALL PIPE AND FITTINGS FOR OUTLET
AND SAMPLING STATION PER ASTM 2665.
AND SAMPLING STATION PER ASTM 2665.

INSPECTION SAMPLING STATION

1. ALL MOUNTING HARDWARE, FASTENERS, PIPING, VALVES, AND OTHER ITEMS
   WITHIN VAULT SHALL BE STAINLESS STEEL, UNLESS SPECIFIED OR NOTED OTHERWISE
2. LOCATION OF VAULT MAY BE DIRECTLY OVER MAIN IF CONDITIONS ALLOW.
3. RECOMMENDED OPENING TO BE CORED AFTER INSTALLATION.

REQUIRED FOR:

COMMERCIAL ESTABLISHMENTS
WITHOUT IN-GROUND GREASE TRAPS.
CAN BE USED IN LIEU OF A CLEANOUT

NOTE: WIDTH VARIES

1. VOLUME TO BE DETERMINED BY ALTAMONTE SPRINGS CITY
   ENGINEER OR DESIGNEE UPON APPLICATION BY OWNER.
2. STRUCTURAL DESIGN SHALL BE THE RESPONSIBILITY
   OF THE MANUFACTURER.
3. ONLY KITCHEN WASTE SHALL BE DISCHARGED INTO THE
   GREASE TRAP. ALL DOMESTIC WASTE (I.E., REST-
   ROOMS) SHALL BE CONNECTED DOWNSTREAM OF THE
   GREASE TRAP.
4. ALL PIPE AND FITTINGS FOR OUTLET AND SAMPLING
   STATION PER ASTM 2665.
5. BUILDING FLOOR ELEVATION SHALL BE 6" HIGHER THAN
   MANHOLE COVERS.
GREASE INTERCEPTOR - 750 TO 3,500 GALLONS

NOTES:
1. Volume to be determined by using the City Of Altamonte Springs Grease Interceptor Sizing Spreadsheet with final approval by the City Engineer or designee.
2. Structural design must be performed by the manufacturer with shop drawings provided to City Engineer for approval and must provide H-20 loading per AASHTO.
3. Top of manhole must be minimum of six inches below the lowest finished floor with positive drainage away from the building.
4. The three inch vent must tie back to the building vent and must be installed per the Florida Building Code, latest edition.
5. The slope of the influent and effluent laterals must comply with the Florida Building Code, Latest Edition.
6. Only kitchen waste shall be discharged to the grease interceptor. All domestic waste shall be connected downstream of the grease interceptor.
7. All tank volumes in excess of 1600 gallons shall include a 500 gallon grease polishing tank installed between the grease interceptor and the downstream inspection sampling station. The volume of the polishing tank shall be included in the overall required volume.
8. All pipes and fittings shall comply with ASTM 2665.
9. Inspection/Sampling Station required for all grease traps (indoor) and grease interceptors (outdoor).
10. Inspection/Sampling Station can be used in lieu of a sanitary clean out if located within five feet of the building when grease traps are utilized.
11. All concrete shall be minimum fc=4500 psi and all steel shall be minimum fy=60 ksi.
12. Alternative designs must be approved by the City Engineer.

Grease Interceptor Dimensions 750 To 3,500 Gallons

<table>
<thead>
<tr>
<th>Tank Size (Gal.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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Grease Interceptor Dimensions 750 To 3,500 Gallons

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<thead>
<tr>
<th>Tank Size (Gal.)</th>
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<th>K</th>
<th>L</th>
<th>M</th>
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</table>
**TOP VIEW**

**SECTION VIEW A-A**

**TANK SIZE (Gal.)**

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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**Grease Polishing Tank (500 gallons)**

**TANK SIZE (Gal.)**

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<th>J</th>
<th>K</th>
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**Grease Interceptor - 4,500 to 7,500 Gallons**
GREASE INTERCEPTOR - 8,000 TO 11,000 GALLONS
NOTES:
1. Volume to be determined by using the City Of Altamonte Springs Sand/Oil Interceptor Sizing Spreadsheet with final approval by the City Engineer or designee.
2. Structural design must be performed by the manufacturer with shop drawings provided to City Engineer for approval and must provide H-20 loading per AASHTO.
3. Top of manhole must be minimum of six inches below the lowest finished floor with positive drainage away from the building.
4. The three inch vent must tie back to the building vent and must be installed per the Florida Building Code, latest edition.
5. The slope of the influent and effluent laterals must comply with the Florida Building Code, Latest Edition.
6. Only areas that discharge sand and oil shall be discharged to the sand/oil interceptor. All domestic waste shall be connected downstream of the sand/oil interceptor.
7. All pipes and fittings shall comply with ASTM 2665.
8. Inspection/Sampling Station required for all sand/oil interceptors.
9. All concrete shall be minimum fc=4500 psi and all steel shall be minimum fy=60 ksi.
10. Alternative designs must be approved by the City Engineer.
TOP VIEW

SECTION VIEW A-A

APPROVED GREASE INTERCEPTORS CONFIGURATIONS

<table>
<thead>
<tr>
<th>Required Volume</th>
<th>Primary Interceptor</th>
<th>Secondary Interceptor</th>
<th>Third Interceptor</th>
<th>Polishing Tank</th>
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</table>

From grease interceptor

2'-3"

6"-6" 5'-6"

1'-6"

4'-6" 3'-6"

6" 6"

1'-6"

5'-6" 4'-6"

3" Vent

4" 3"

1-3"

18"x18"x4" Conc. Collar outside paved areas

Access point

Grade

Inspection/Sampling Station w/ Traffic Rated Cap (6" Min.)

14 THHN (Green) Tracing Wire

Two-Way Cleanout

CITY OF ALTAMONTE SPRINGS
950 CALABRIA DRIVE
ALTAMONTE SPRINGS, FLORIDA 32714

ISSUED 2017

REVISED 03/01/2017 BY DJB
NOTES:
1. ALL MOUNTING HARDWARE, FASTENERS, PIPING, VALVES, AND OTHER ITEMS WITHIN VAULT SHALL BE STAINLESS STEEL, UNLESS SPECIFIED OR NOTED BY OTHERS.
2. LOCATION OF VAULT MAY BE DIRECTLY OVER MAIN IF CONDITIONS ALLOW.
3. RECOMMENDED OPENING TO BE CORED AFTER INSTALLATION.
4. ONLY ARI MODEL D-025 COMBINATION AIR VALVE FOR SEWAGE SHORT VERSION 2" THREADED / STAINLESS STEEL 316, 250 PSI WORKING PRESSURE - TESTED TO 350 PSI OR EQUAL SHALL BE USED. SUBSTITUTIONS SHALL BE CONSIDERED FOR APPROVAL BY THE CITY ENGINEER AND CHIEF LIFT STATION OPERATOR.

SECTION VIEW

10" DIA x 4" DEEP SUMP, SLOPE FLOOR TO SUMP
FOUNTAIN STABILIZATION WHEN DIRECTED BY THE CITY ENGINEER

AIR RELEASE VALVE ASSEMBLY

CITY OF ALTAMONTE SPRINGS
950 CALABRIA DRIVE
ALTAMONTE SPRINGS, FLORIDA 32714

PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS

CITY OF ALTAMONTE SPRINGS
950 CALABRIA DRIVE
ALTAMONTE SPRINGS, FLORIDA 32714

SS006-2
ISSUED 2017
REVISED 03/01/2017 BY DJB
1. HOSE BIBBS CONNECTED TO THE POTABLE WATER SYSTEM MUST BE METERED AND INSTALLED WITH AN APPROVED RBPA.
2. HOSE BIBBS CONNECTED TO THE RECLAIMED WATER SYSTEM MUST BE INSTALLED BELOW GRADE AND INSTALLED WITH AN APPROVED RBPA. METERING REQUIREMENTS WILL BE AT THE DISCRETION OF THE CITY ENGINEER.
3. ALL HARDWARE SHALL BE STAINLESS STEEL.
4. ELEVATION "E" SHALL BE BELOW ELEVATION "B".

PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS

LIFT STATION ELEVATION

NOTES:

1. ALL HARDWARE SHALL BE STAINLESS STEEL.
2. ELEVATION "E" SHALL BE BELOW ELEVATION "B".

CITY OF ALTAMONTE SPRINGS
950 CALAMARIA DRIVE
ALTAMONTE SPRINGS, FLORIDA 32714

ISSUED 2017
SS007-1A

REVISED 03/01/2017 BY DJB

PRE-CAST MANUFACTURER TO PROVIDE ADDITIONAL CONCRETE IN SLAB AS REQUIRED TO COMPENSATE FOR BUOYANCY OF WET WELL.

COAL TAR EPOXY INTERIOR OF VALVE VAULT

NOTE:
PRE-CAST MANUFACTURER TO PROVIDE ADDITIONAL CONCRETE IN SLAB AS REQUIRED TO COMPENSATE FOR BUOYANCY OF WET WELL.

COAL TAR EPOXY INTERIOR OF VALVE VAULT
CONCRETE WET WELL
(6' MIN. DIA.)

FORCE MAIN

BLIND FLANGE

EMERGENCY PUMP CONNECTION

DUCTILE IRON PIPE

ISOLATION PLUG VALVE

VALVE VAULT

PLUG VALVE
(ISOLATION)

CHECK VALVE

3" FLOOR DRAIN

CABLE HOLDER

OUTLINE OF ACCESS OPENING

PLAN VIEW

INDEX OF REQUIRED PUMP PULLING CABLES

<table>
<thead>
<tr>
<th>PUMP SIZE</th>
<th>REQUIRED CHAIN SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 HP - 5.0 HP</td>
<td>1/4-INCH STAINLESS STEEL CHAIN</td>
</tr>
<tr>
<td>5.5 HP - 9.4 HP</td>
<td>5/16-INCH STAINLESS STEEL CHAIN</td>
</tr>
<tr>
<td>9.5 HP - 18.0 HP</td>
<td>3/8-INCH STAINLESS STEEL CHAIN</td>
</tr>
<tr>
<td>18.8 HP AND UP</td>
<td>SIZE ACCORDING TO WEIGHT OF PUMP (NOT LESS THAN 3/8-INCH STAINLESS STEEL CHAIN)</td>
</tr>
</tbody>
</table>

LIFT STATION PLAN VIEW

ISSUED 2017

REVISED 03/01/2017 BY DJB
ON SUBMERSIBLE STATIONS, THE CONDUIT ENTERING THE WET WELL FOR MOTOR AND CONTROL CARDS SHALL TERMINATE WITH A FIBER BUSHING. NO SPLICES WILL BE ALLOWED IN THE WET WELL AND ALL WIRES WILL BE CONTINUOUS FROM WET WELL TO THE CONTROL CABINET.

ALL CONDUITS TO HAVE PULL WIRE.