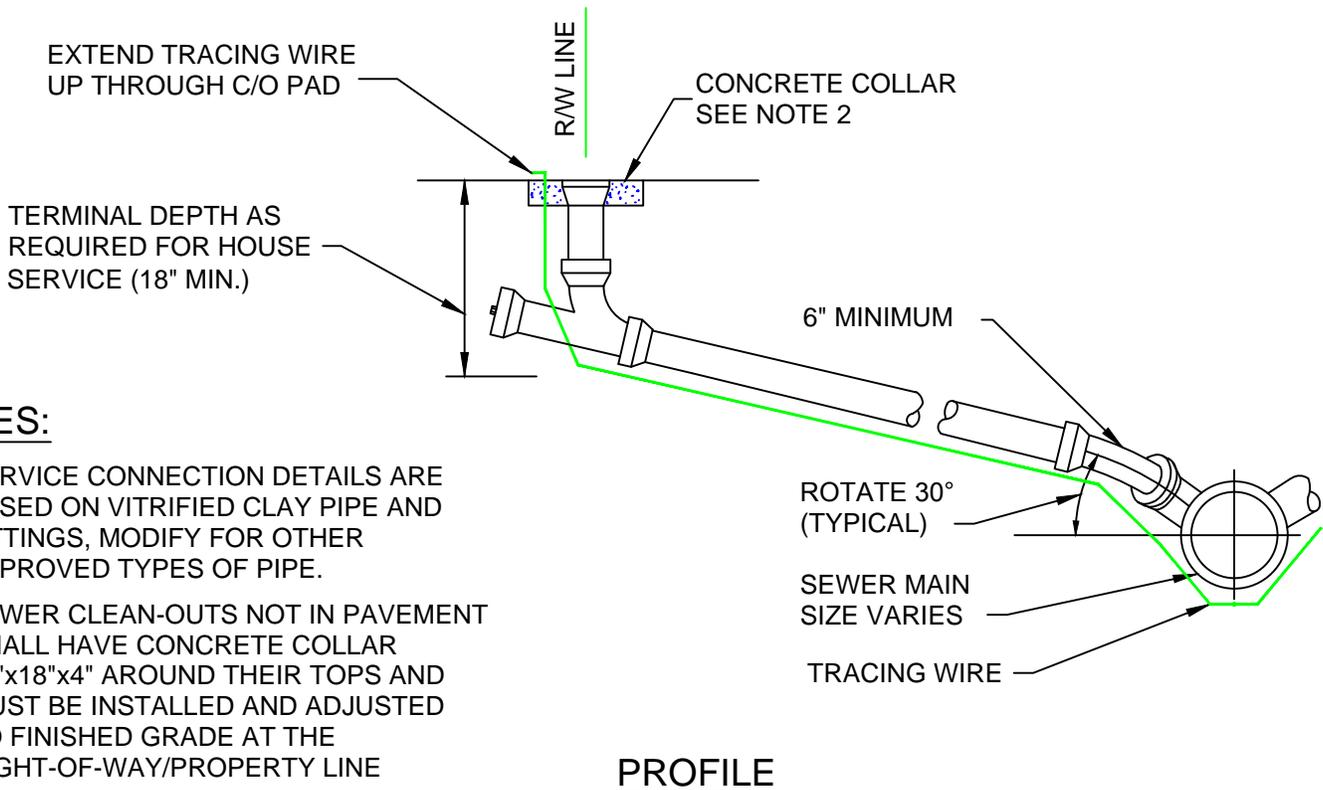
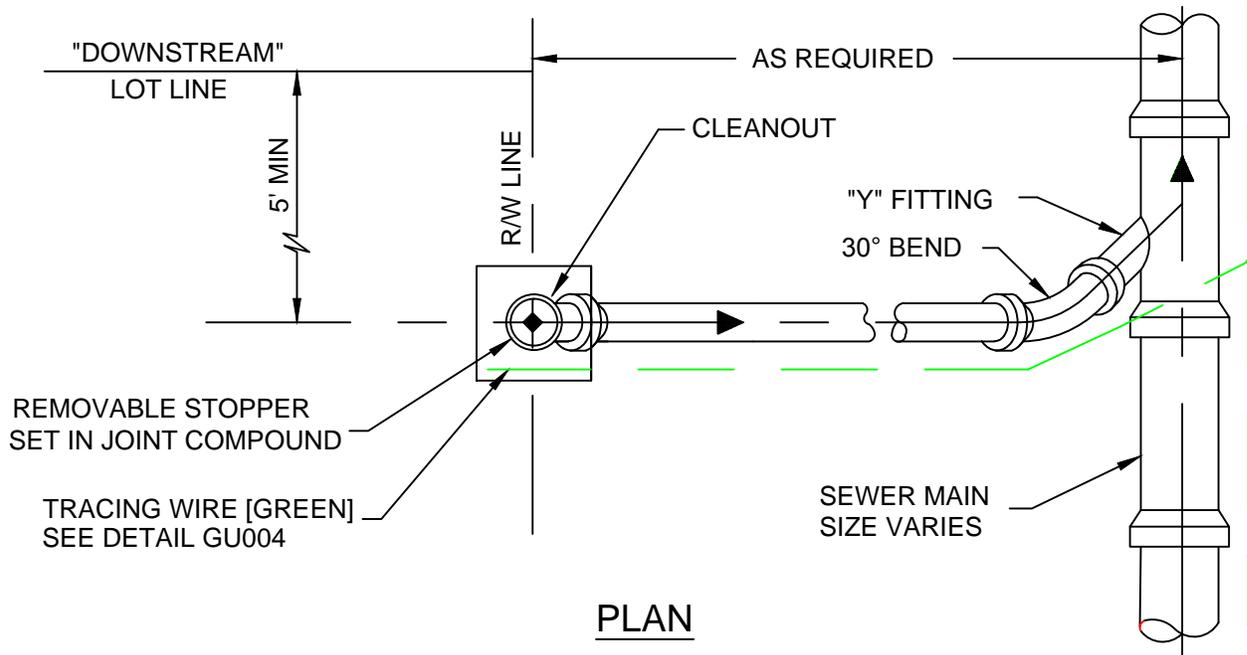


PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS



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.



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

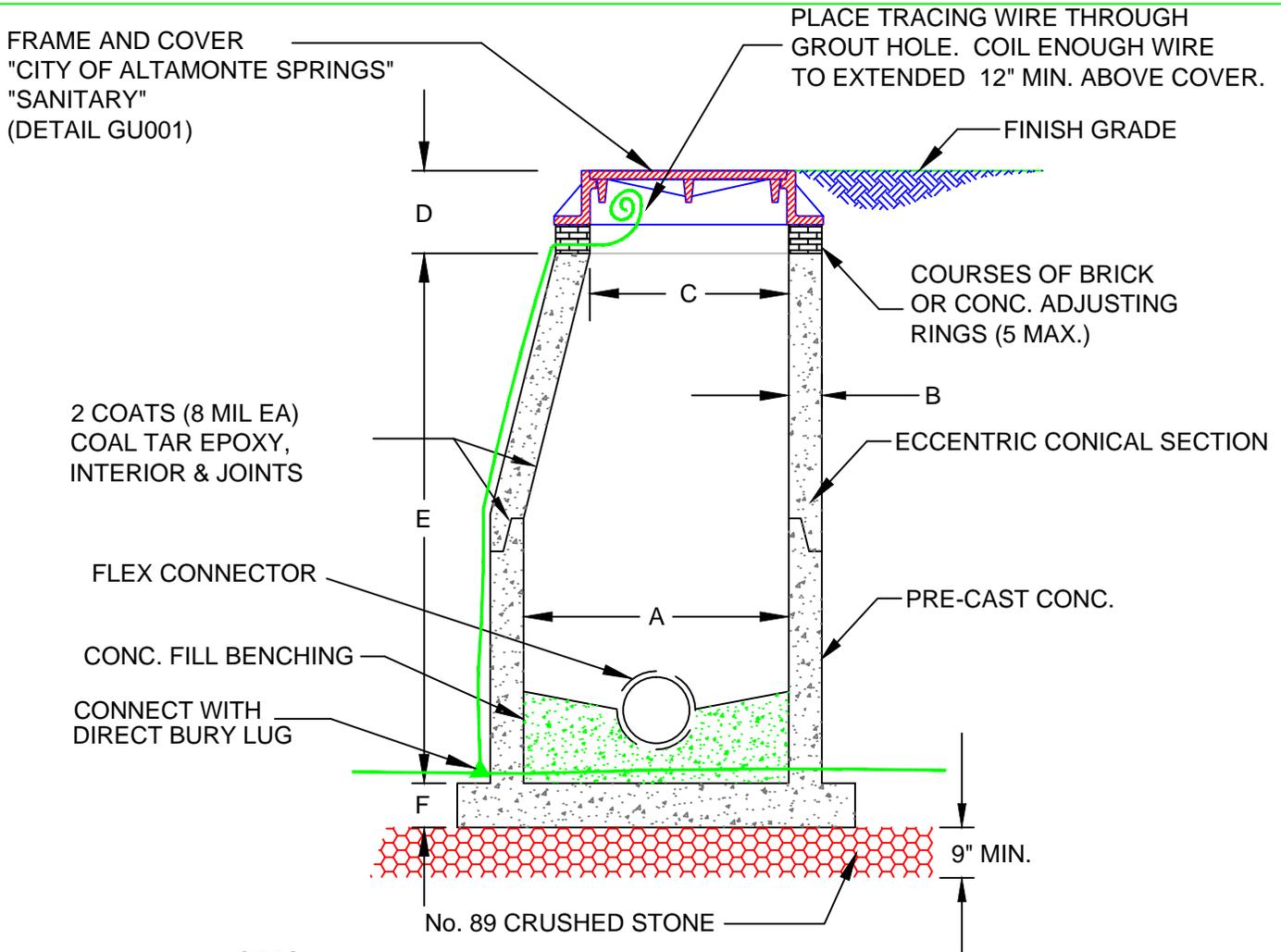
TYPICAL SEWER CONNECTION

SS002-2

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PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS



NOTES:

1. 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.

MANHOLE SIZE

UP TO 24" PIPE 48" MANHOLE
 UP TO 36" PIPE 60" MANHOLE
 OVER 36" PIPE 72" MANHOLE

MH DEPTH	A	B	C	D	E	F
UP TO 12'	48"	6"	36"	15"	AS REQ'D	8"
12' TO 18'	60"	8"	36"	15"	AS REQ'D	10"
18' AND DEEPER	72"	8"	36"	15"	AS REQ'D	14"



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

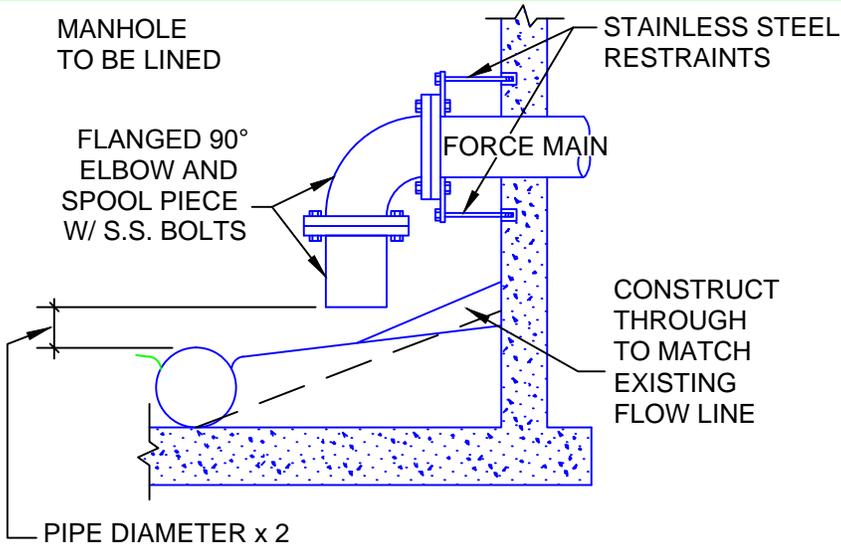
STANDARD MANHOLE DETAIL

SS003-2

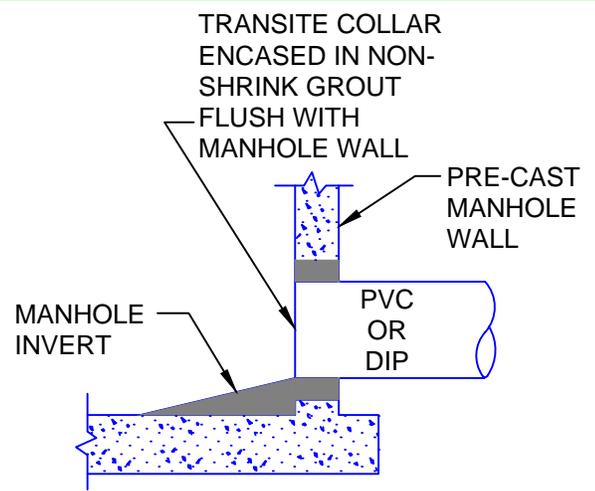
ISSUED 2015

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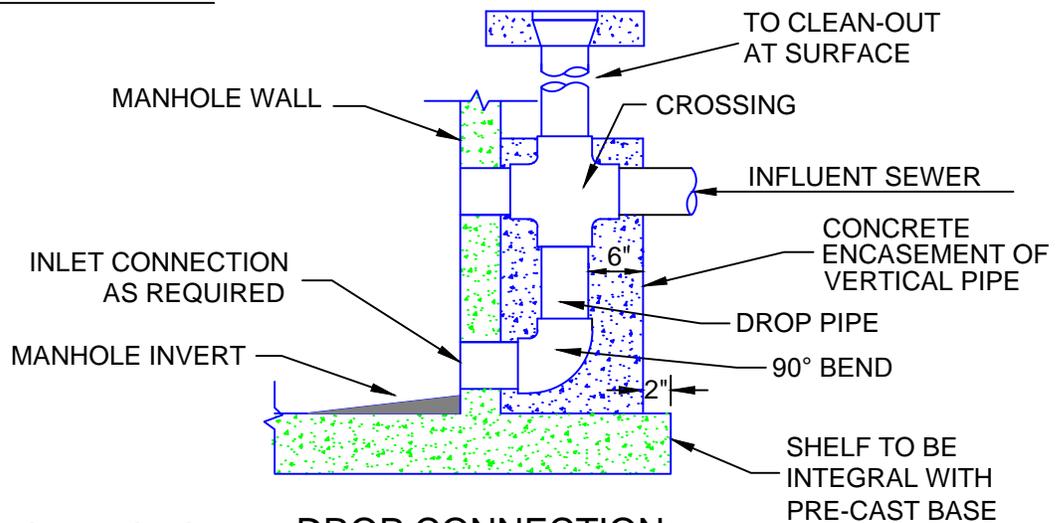
PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS



FORCE MAIN CONNECTION



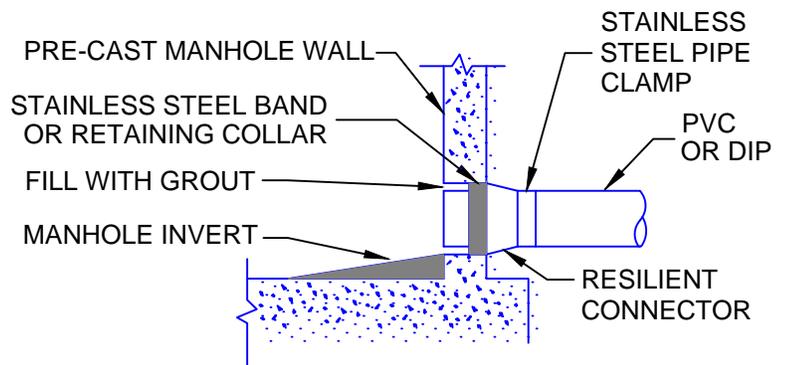
ALTERNATE CONNECTION



DROP CONNECTION

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



CITY OF ALTAMONTE SPRINGS
950 CALABRIA DRIVE
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TYPICAL MANHOLE CONNECTIONS

SS004-1

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PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS

CITY OF ALTAMONTE SPRINGS GREASE TRAP SIZING METHOD

$$(D) \times (MF) \times (GL) \times (RT) \times (ST) = \text{CAPACITY IN GALLONS}$$

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:

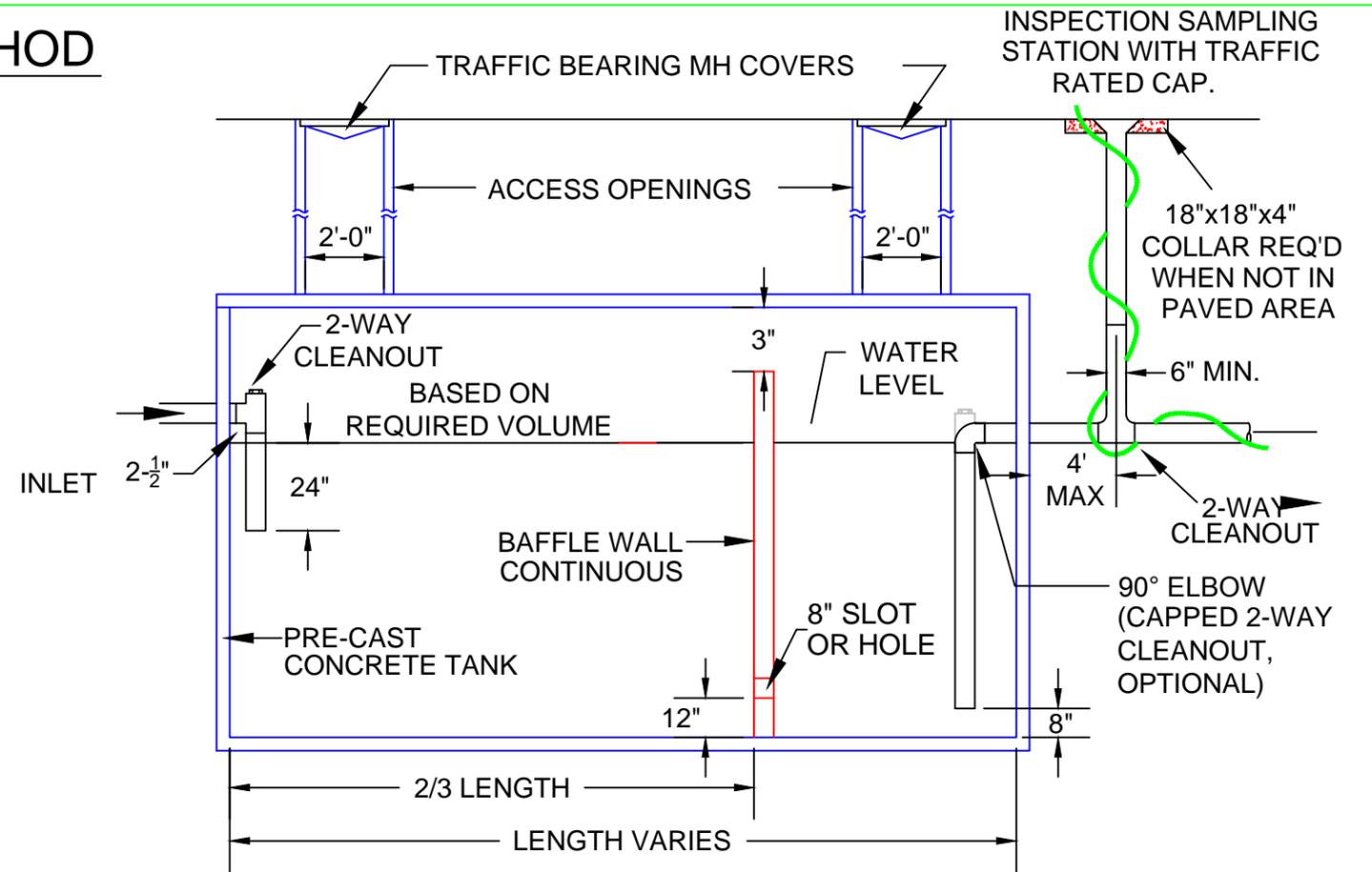
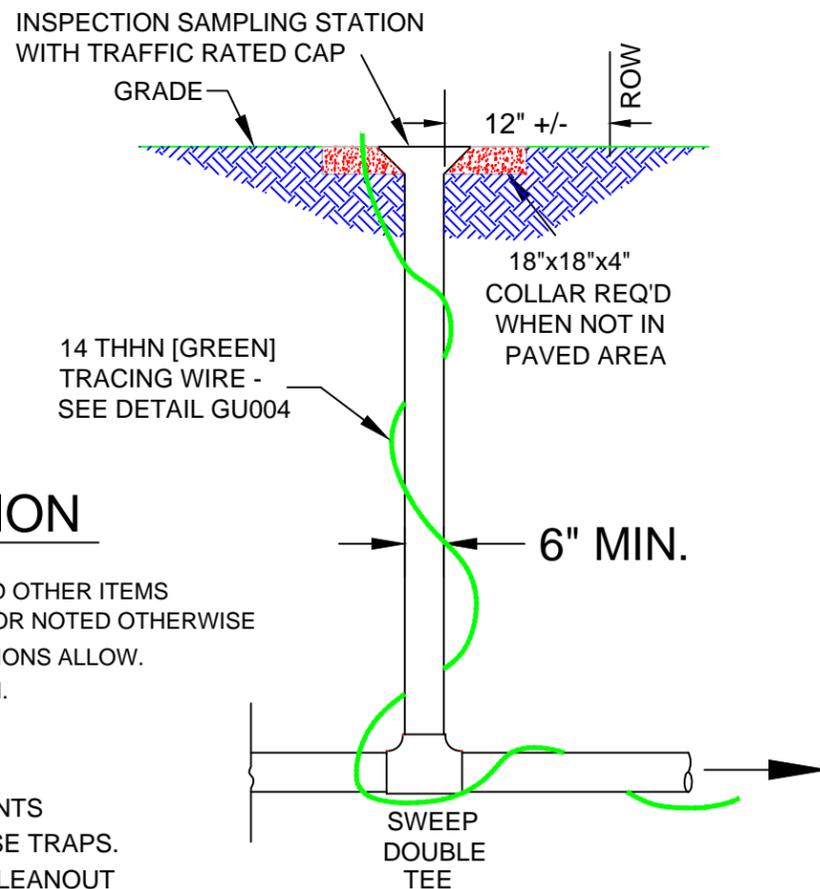
ALL PIPE AND FITTINGS FOR OUTLET AND SAMPLING STATION PER ASTM 2665. AND SAMPLING STATION PER ASTM 2665.

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



GREASE TRAP DOUBLE COMPARTMENT (NOT TO SCALE)

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., RESTROOMS) 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.



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

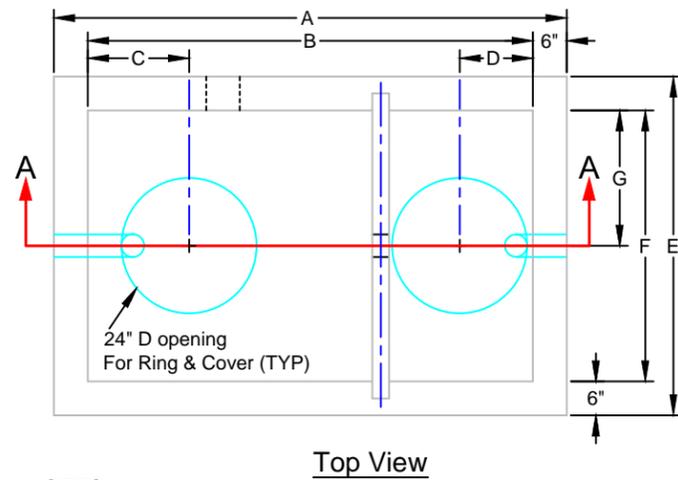
DOUBLE COMPARTMENT GREASE TRAP & INSPECTION SAMPLING STATION

SS005-2

ISSUED 2015

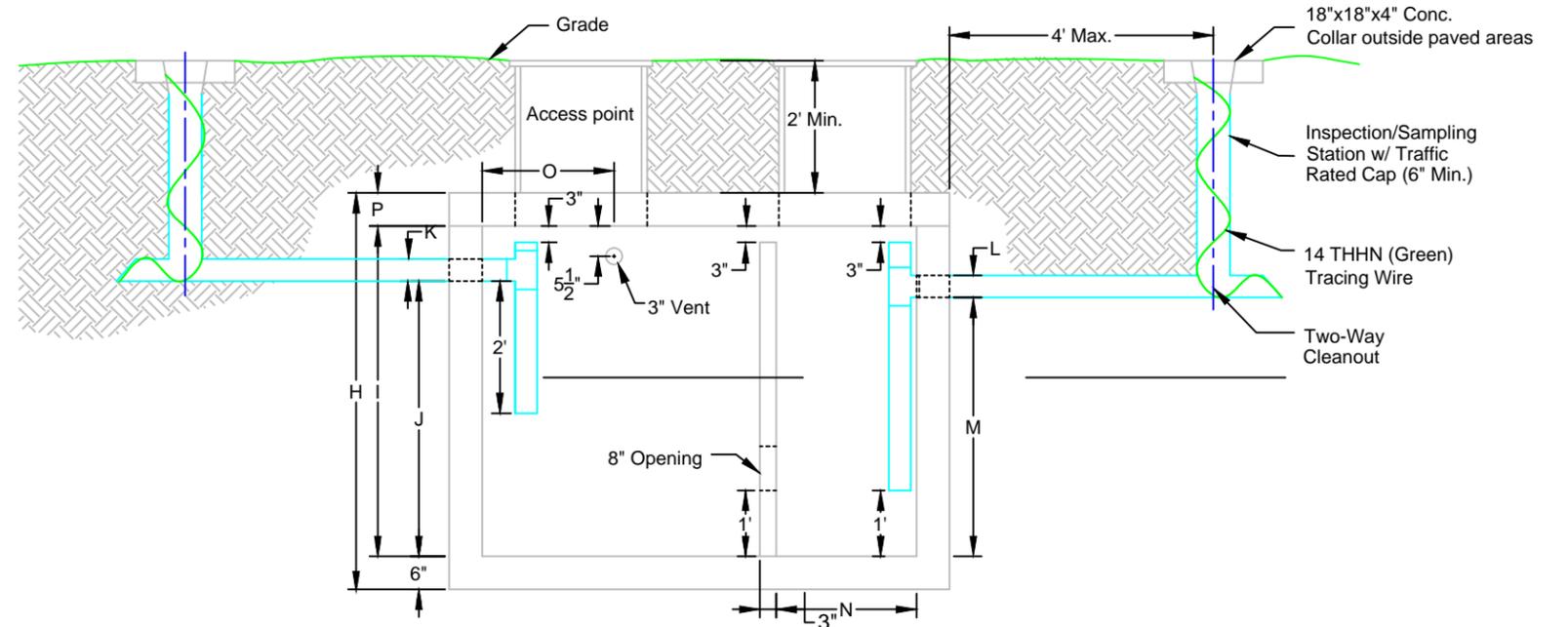
REVISED 03/31/2015 BY DJB

PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS



NOTES:

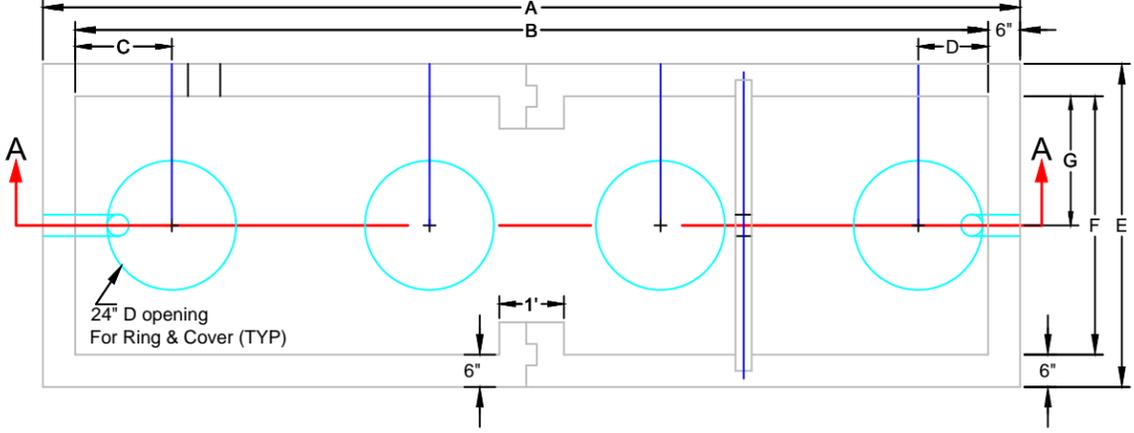
1. Volume to be determined by using the City Of Altamonte Springs Grease Interceptor Sizing Spreadsheet with final approval by the City Engineer or designee.
2. Structural design must be performed by the manufacturer with shop drawings provided to City Engineer for approval and must provide H-20 loading 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 $f_c=4500$ psi and all steel shall be minimum $f_y=60$ ksi.
12. Alternative designs must be approved by the City Engineer.



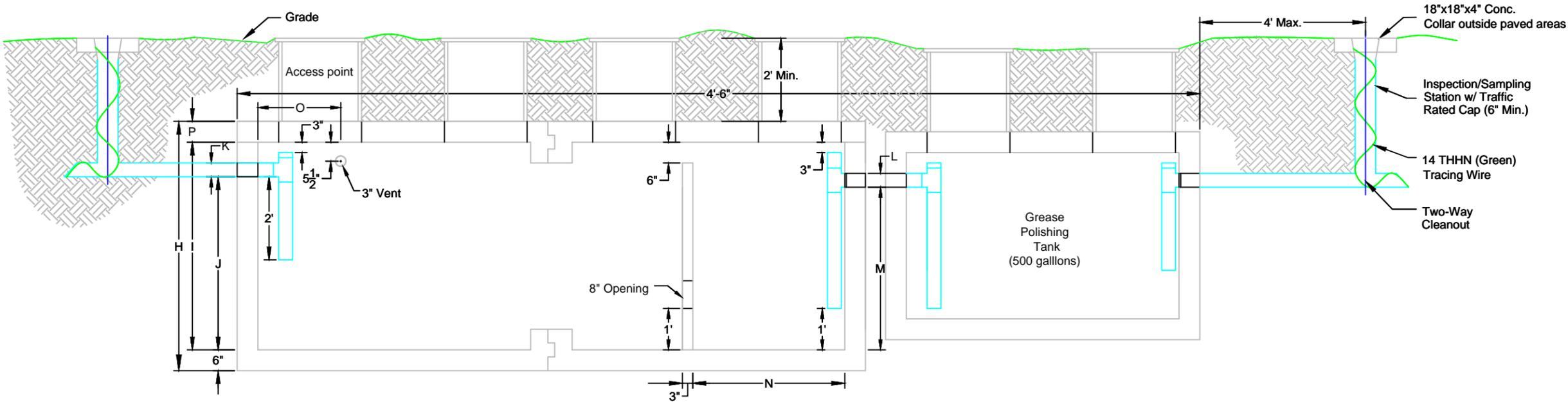
Tank Size(Gal.)	A	B	C	D	E	F	G	H
750	7'-6"	6'-6"	1'-6"	1'-0"	5'-0"	4'-0"	2'-0"	6'-0"
1000	9'-0"	8'-0"	1'-6"	1'-6"	5'-0"	4'-0"	2'-0"	7'-4"
1250	9'-0"	8'-0"	1'-6"	1'-6"	5'-0"	4'-0"	2'-0"	7'-4"
1600	11'-6"	10'-6"	1'-6"	1'-6"	5'-0"	4'-0"	2'-0"	7'-4"
2000	11'-6"	10'-6"	1'-6"	1'-6"	6'-0"	5'-0"	2'-6"	7'-0"
2500	11'-6"	10'-6"	1'-6"	1'-6"	6'-0"	5'-0"	2'-6"	8'-4"
3000	13'-0"	12'-0"	1'-6"	1'-6"	7'-0"	6'-0"	3'-0"	9'-1"
3500	13'-0"	12'-0"	1'-6"	1'-6"	7'-0"	6'-0"	3'-0"	9'-1"

Tank Size(Gal.)	I	J	K	L	M	N	O	P
750	5'-0"	4'-2"	0'-4"	0'-4"	3'-11"	2'-0 1/2"	2'-0"	0'-6"
1000	6'-4"	4'-5"	0'-4"	0'-4"	4'-2"	2'-10 1/2"	3'-6"	0'-6"
1250	6'-4"	5'-6"	0'-4"	0'-4"	5'-3"	2'-10 1/2"	3'-6"	0'-6"
1600	6'-0"	4'-4"	0'-4"	0'-4"	4'-1"	3'-4 1/2"	3'-6"	0'-6"
2000	6'-0"	5'-4"	0'-4"	0'-4"	5'-1"	3'-4 1/2"	3'-6"	0'-6"
2500	7'-4"	6'-7"	0'-4"	0'-4"	6'-4"	3'-4 1/2"	3'-6"	0'-6"
3000	8'-0"	5'-6 1/2"	0'-4"	0'-4"	5'-3 1/2"	3'-10 1/2"	3'-6"	0'-7"
3500	8'-0"	6'-9"	0'-4"	0'-4"	6'-6"	3'-10 1/2"	3'-6"	0'-7"

PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS



TOP VIEW



SECTION VIEW A-A

TANK SIZE (Gal.)	A	B	C	D	E	F	G	H
4500	22'-0" min	21'-6" min	1'-6"	1'-6"	6'-0"	5'-0"	2'-6"	7'-0"
5500	22'-0" min	21'-0" min	1'-6"	1'-6"	6'-0"	5'-0"	2'-6"	8'-4"
6500	25'-0" min	24'-0" min	1'-6"	1'-6"	7'-0"	6'-0"	3'-0"	9'-1"
7500	25'-0" min	24'-0" min	1'-6"	1'-6"	7'-0"	6'-0"	3'-0"	9'-1"

TANK SIZE (Gal.)	I	J	K	L	M	N	O	P
4500	6'-0"	5'-4"	0'-4"	0'-4"	5'-1"	6'-9"	3'-6"	0'-6"
5500	7'-4"	6'-7"	0'-4"	0'-4"	6'-4"	6'-9"	3'-6"	0'-6"
6500	8'-0"	5'-6 1/2"	0'-4"	0'-4"	5'-3 1/2"	7'-9"	3'-6"	0'-7"
7500	8'-0"	6'-9"	0'-4"	0'-4"	6'-6"	7'-9"	3'-6"	0'-7"



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

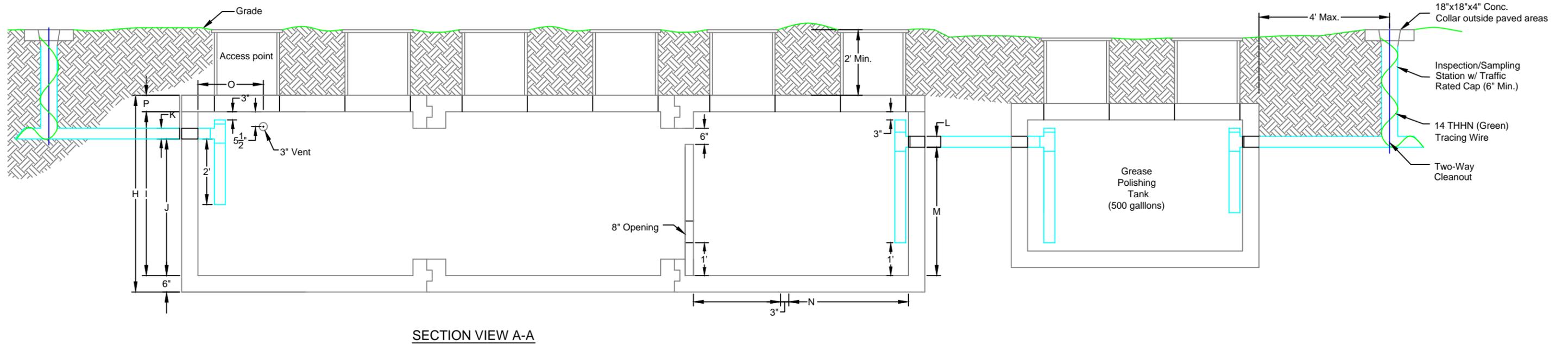
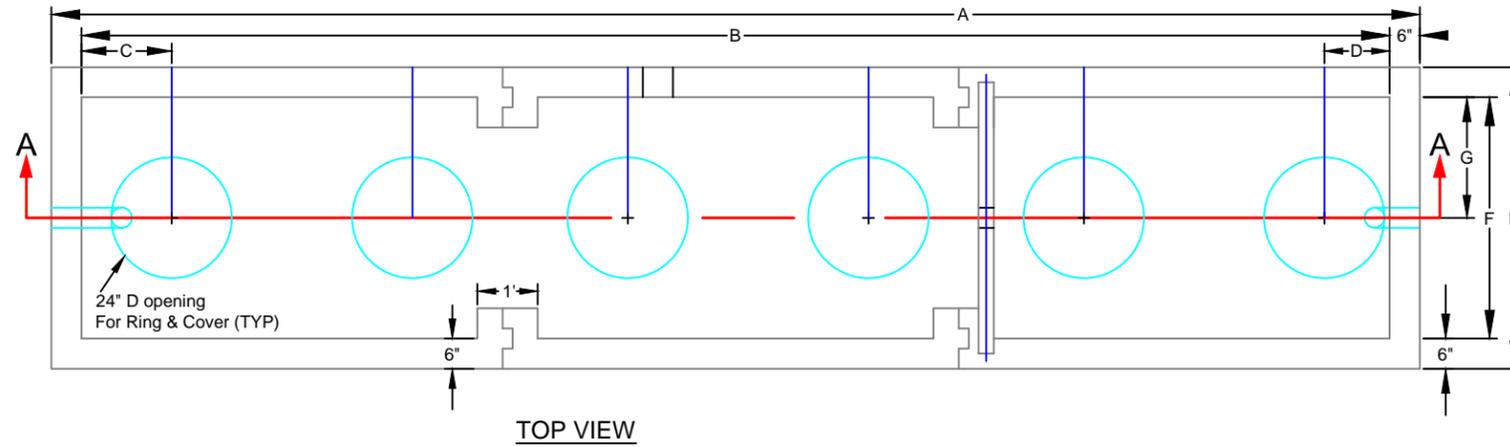
GREASE INTERCEPTOR - 4,500 TO 7,500 GALLONS

SS005-3B

ISSUED 2015

REVISED 03/31/2015 BY DJB

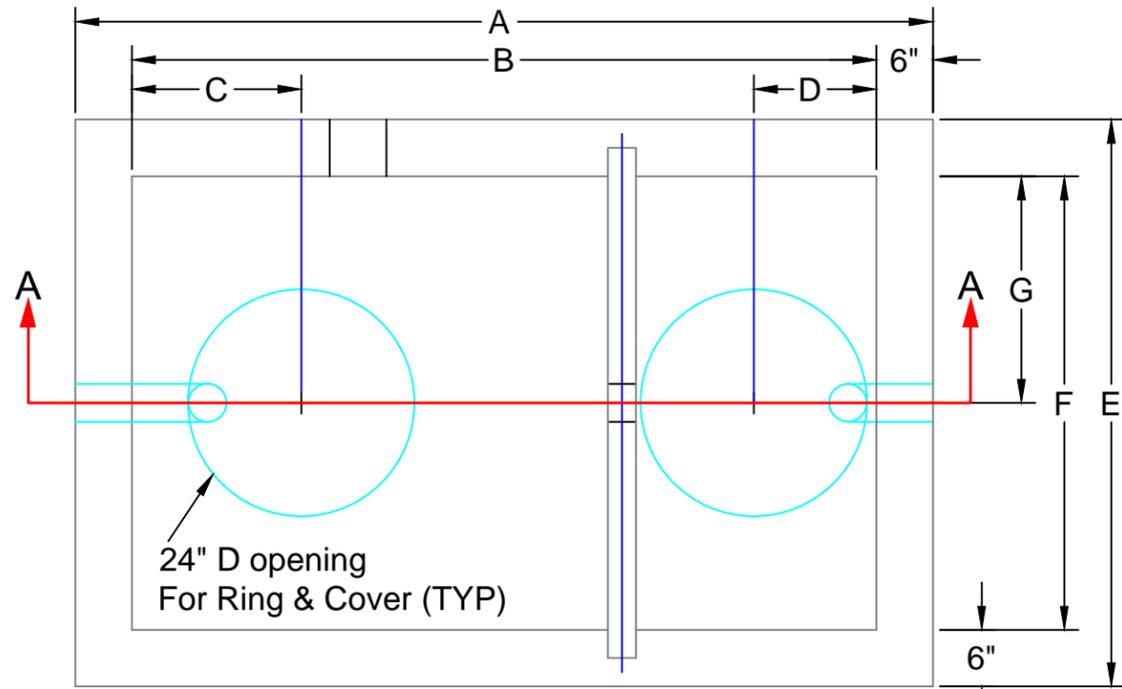
PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS



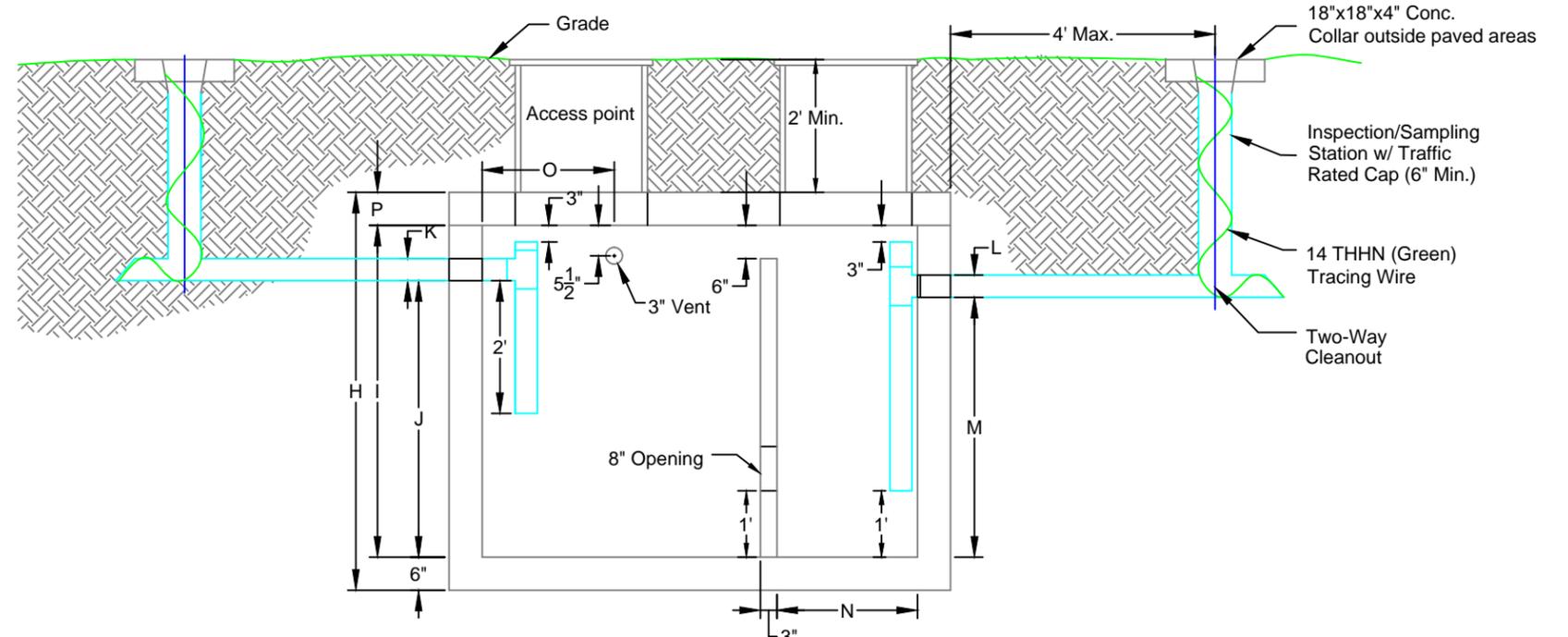
TANK SIZE(Gal.)	A	B	C	D	E	F	G	H
8000	33'-0" min	31'-6" min	1'-6"	1'-6"	6'-0"	5'-0"	2'-6"	8'-4"
9500	37'-0" min	36'-0" min	1'-6"	1'-6"	7'-0"	6'-0"	3'-0"	9'-1"
11000	37'-0" min	36'-0" min	1'-6"	1'-6"	7'-0"	6'-0"	3'-0"	9'-1"

TANK SIZE(Gal.)	I	J	K	L	M	N	O	P
8000	7'-4"	6'-7"	0'-4"	0'-4"	6'-4"	10'-1 1/2"	3'-6"	0'-6"
9500	8'-0"	5'-6 1/2"	0'-4"	0'-4"	5'-3 1/2"	11'-7 1/2"	3'-6"	0'-7"
11000	8'-0"	6'-9"	0'-4"	0'-4"	6'-6"	11'-7 1/2"	3'-6"	0'-7"

PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS



TOP VIEW



SECTION VIEW A-A

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 $f_c=4500$ psi and all steel shall be minimum $f_y=60$ ksi.
10. Alternative designs must be approved by the City Engineer.

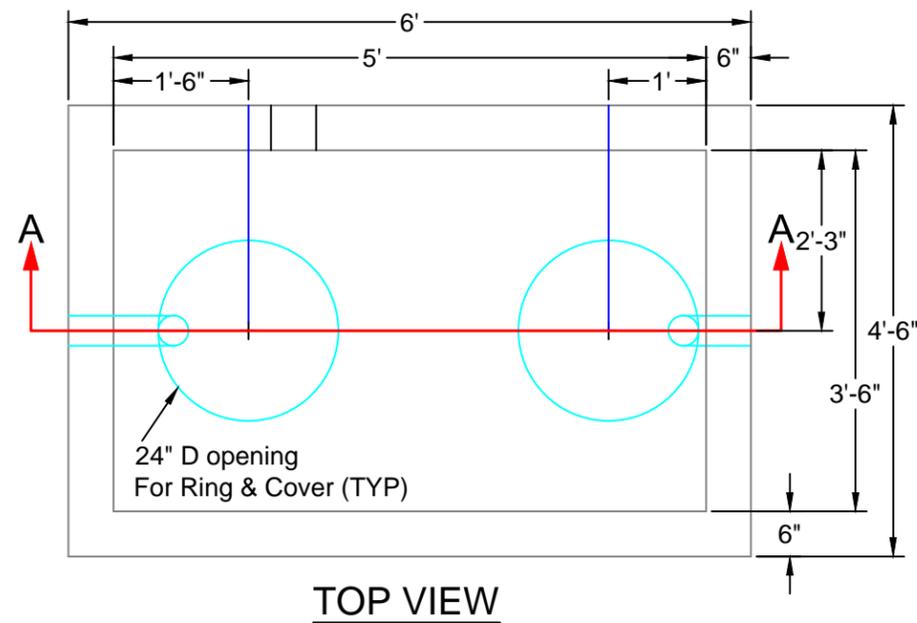
SAND AND OIL INTERCEPTOR DIMENSIONS 500 TO 3,500 GALLONS

TANK SIZE(Gal.)	A	B	C	D	E	F	G	H
500	6'-0"	5'-0"	1'-6"	1'-0"	4'-6"	3'-6"	1'-9"	6'-6"
750	7'-6"	6'-6"	1'-6"	1'-0"	5'-0"	4'-0"	2'-0"	6'-0"
1000	9'-0"	8'-0"	1'-6"	1'-6"	5'-0"	4'-0"	2'-0"	7'-4"
1250	9'-0"	8'-0"	1'-6"	1'-6"	5'-0"	4'-0"	2'-0"	7'-4"
1600	11'-6"	10'-6"	1'-6"	1'-6"	6'-0"	4'-0"	2'-0"	7'-4"
2000	11'-6"	10'-6"	1'-6"	1'-6"	6'-0"	5'-0"	2'-6"	7'-0"
2500	11'-6"	10'-6"	1'-6"	1'-6"	6'-0"	5'-0"	2'-6"	8'-4"
3000	13'-0"	12'-0"	1'-6"	1'-6"	7'-0"	6'-0"	3'-0"	9'-1"
3500	13'-0"	12'-0"	1'-6"	1'-6"	7'-0"	6'-0"	3'-0"	9'-1"

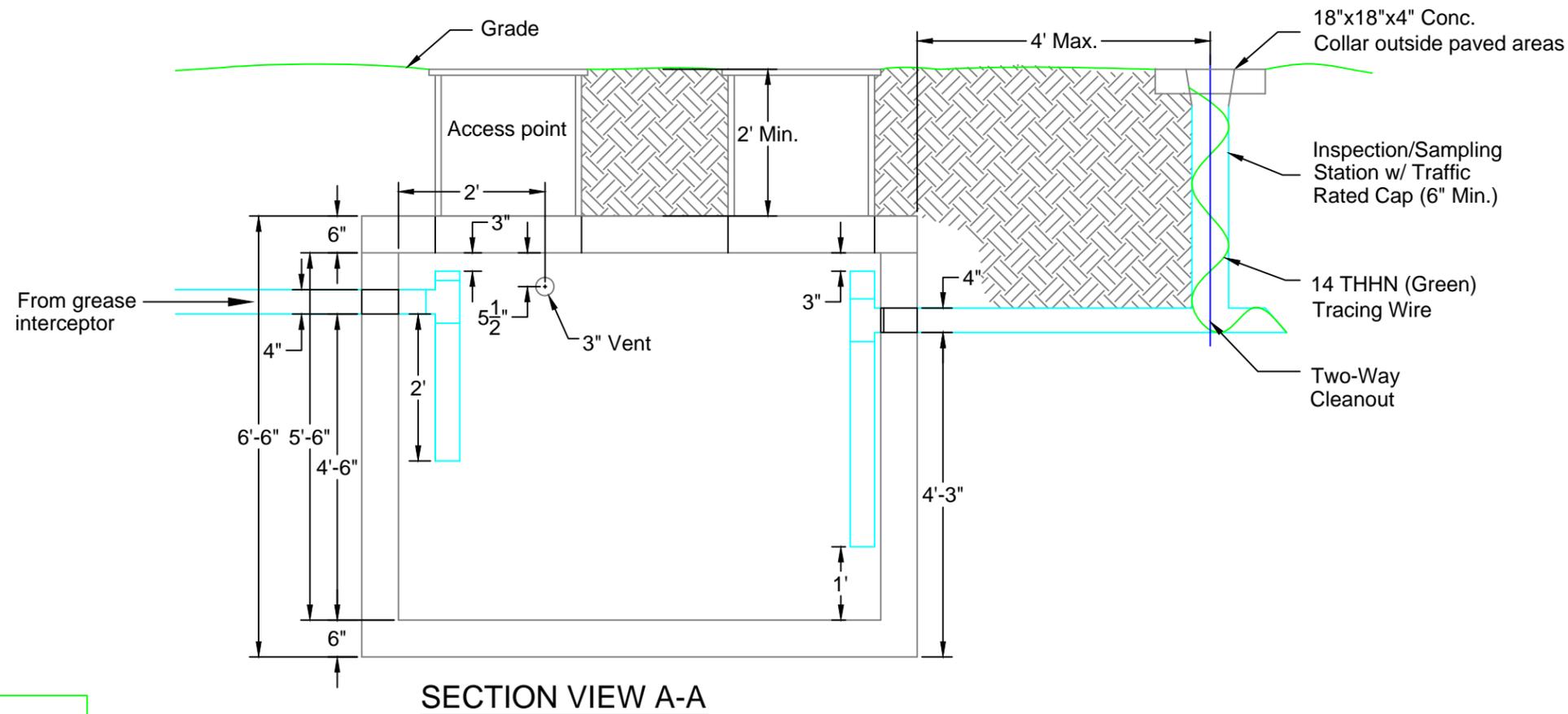
SAND AND OIL INTERCEPTOR DIMENSIONS 500 TO 3,500 GALLONS

TANK SIZE(Gal.)	I	J	K	L	M	N	O	P
500	5'-6"	4'-6"	0'-4"	0'-4"	4'-3"	1'-7"	2'-0"	0'-6"
750	5'-0"	4'-2"	0'-4"	0'-4"	3'-11"	2'-0 1/2"	2'-0"	0'-6"
1000	6'-4"	4'-5"	0'-4"	0'-4"	4'-2"	2'-10 1/2"	3'-6"	0'-6"
1250	6'-4"	5'-6"	0'-4"	0'-4"	5'-3"	2'-10 1/2"	3'-6"	0'-6"
1600	6'-0"	4'-4"	0'-4"	0'-4"	4'-1"	3'-4 1/2"	3'-6"	0'-6"
2000	6'-0"	5'-4"	0'-4"	0'-4"	5'-1"	3'-4 1/2"	3'-6"	0'-6"
2500	7'-4"	6'-7"	0'-4"	0'-4"	6'-4"	3'-4 1/2"	3'-6"	0'-6"
3000	8'-0"	5'-6 1/2"	0'-4"	0'-4"	5'-3 1/2"	3'-10 1/2"	3'-6"	0'-7"
3500	8'-0"	6'-9"	0'-4"	0'-4"	6'-6"	3'-10 1/2"	3'-6"	0'-7"

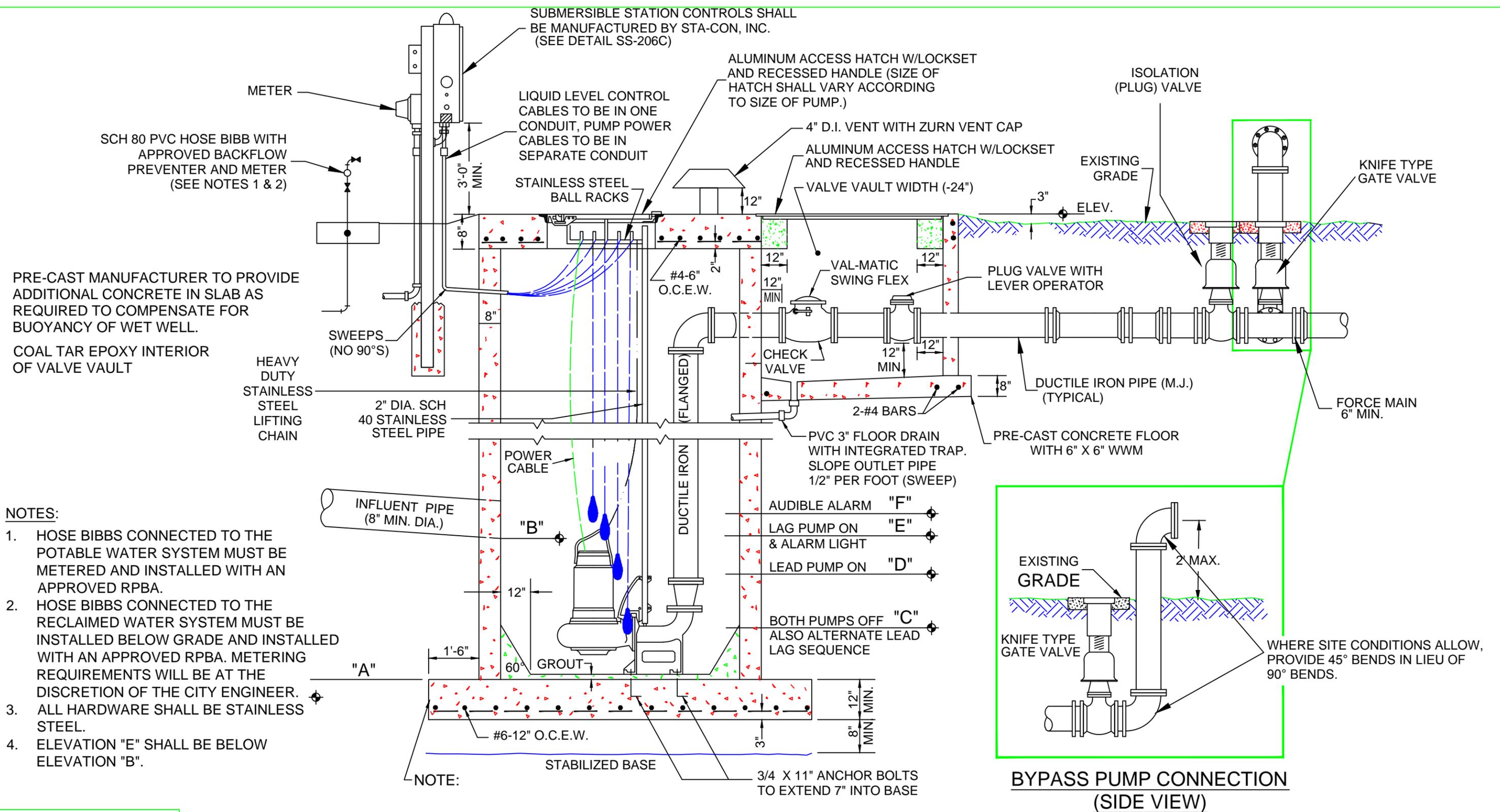
PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS



APPROVED GREASE INTERCEPTORS CONFIGURATIONS				
Required Volume	Primary Interceptor	Secondary Interceptor	Third Interceptor	Polishing Tank
750	750			
1000	100			
1250	1250			
1600	1600			
1750	1250			500
2100	1600			500
2500	2000			500
3000	2500			500
3500	3000			500
4000	3500			500
4500	2000	2000		500
5500	2500	2500		500
6500	3000	3000		500
7500	3500	3500		500
8000	2500	2500	2500	500
9500	3000	3000	3000	500
11000	3500	3500	3500	500



PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS



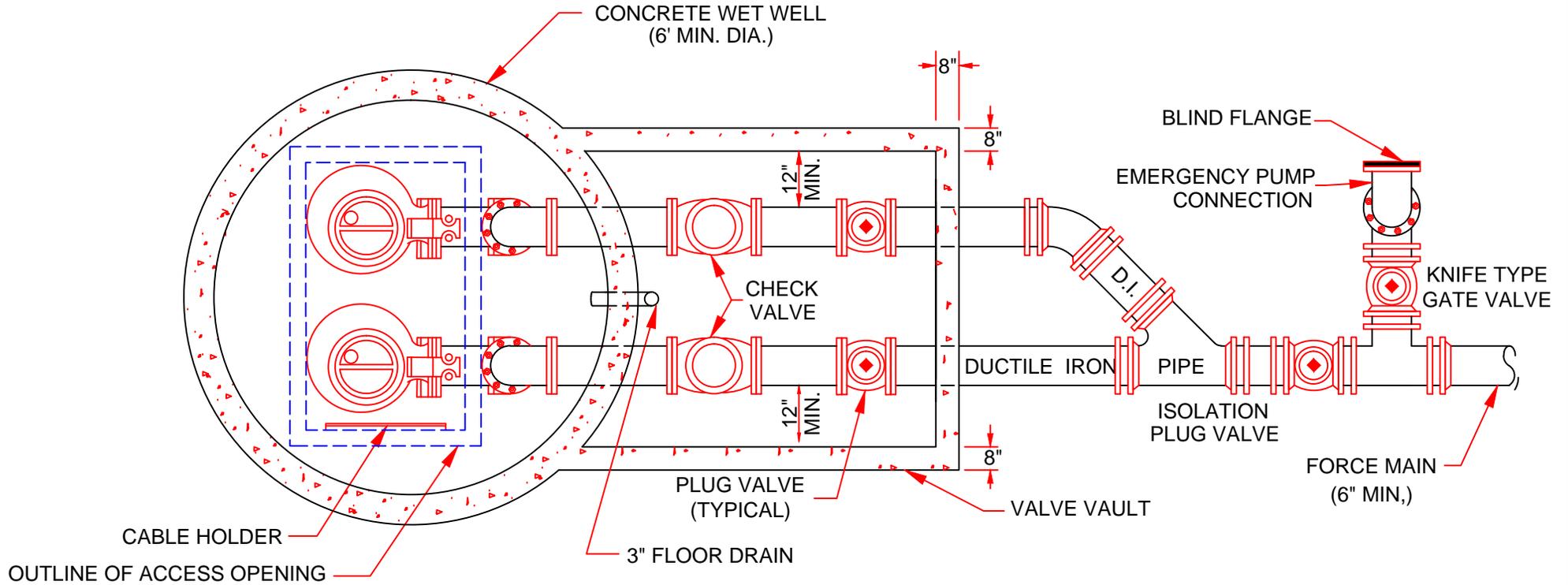
LIFT STATION ELEVATION

SS007-1A

ISSUED 2015

REVISED 03/31/2015 BY DJB

PUBLIC WORKS & UTILITIES ENGINEERING & DESIGN STANDARDS



PLAN VIEW

INDEX OF REQUIRED PUMP PULLING CABLES	
PUMP SIZE	REQUIRED CHAIN SIZE
0.5 HP - 5.0 HP	1/4-INCH STAINLESS STEEL CHAIN
5.5 HP - 9.4 HP	5/16-INCH STAINLESS STEEL CHAIN
9.5 HP - 18.0 HP	3/8-INCH STAINLESS STEEL CHAIN
18.8 HP AND UP	SIZE ACCORDING TO WEIGHT OF PUMP (NOT LESS THAN 3/8-INCH STAINLESS STEEL CHAIN)



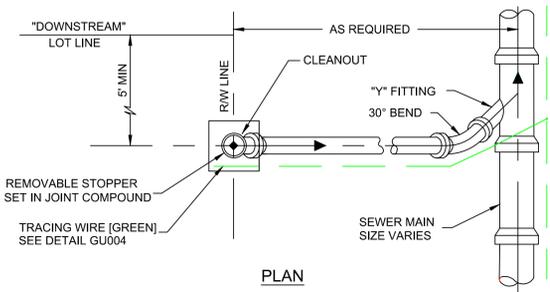
CITY OF ALTAMONTE SPRINGS
950 CALABRIA DRIVE
ALTAMONTE SPRINGS, FLORIDA 32714

LIFT STATION PLAN VIEW

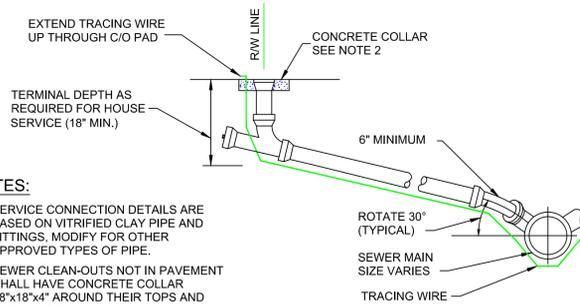
SS007-1B

ISSUED 2015

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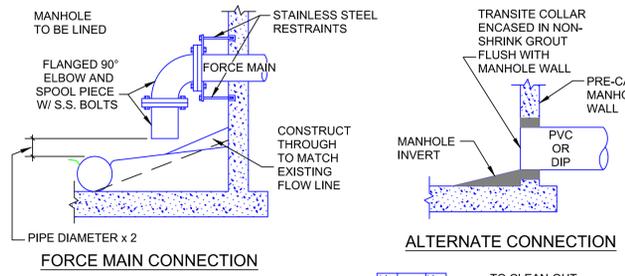
PLAN



PROFILE

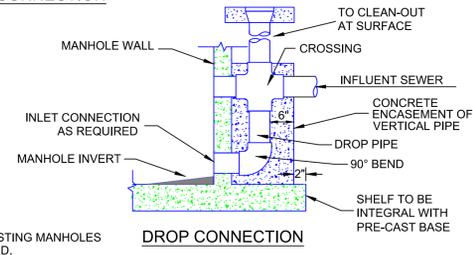
- NOTES:**
- SERVICE CONNECTION DETAILS ARE BASED ON VITRIFIED CLAY PIPE AND FITTINGS, MODIFY FOR OTHER APPROVED TYPES OF PIPE.
 - SEWER CLEAN-OUTS NOT IN PAVEMENT SHALL HAVE CONCRETE COLLAR 18"x18"x4" AROUND THEIR TOPS AND MUST BE INSTALLED AND ADJUSTED TO FINISHED GRADE AT THE RIGHT-OF-WAY/PROPERTY LINE
 - ALL PVC TO CLAY SERVICE CONNECTIONS UNDER LOAD BEARING SURFACES SHALL USE DFV NON-SHEAR FERRO TYPE CONNECTORS OR APPROVED EQUAL.

TYPICAL SEWER CONNECTION
SS002-2

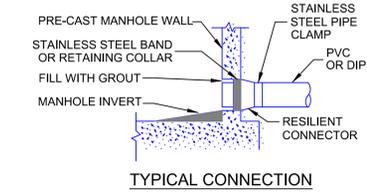


FORCE MAIN CONNECTION

ALTERNATE CONNECTION



DROP CONNECTION



TYPICAL CONNECTION

- NOTES:**
- PENETRATION TO EXISTING MANHOLES SHALL BE CORE BORED.
 - DROP CONNECTION SHALL BE REQUIRED WHENEVER AN INFLUENT SEWER IS LOCATED TWO FEET OR MORE ABOVE THE MAIN INVERT CHANNEL.
 - 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.
 - ANY MANHOLE DIRECTLY RECEIVING A FORCE MAIN MUST BE LINED.
 - LINING SPECIFICATIONS ARE PROVIDED IN THE COATING SECTION OF THE CITY'S APPROVED PRODUCTS LIST.

TYPICAL MANHOLE CONNECTIONS
SS004-1

CITY OF ALTAMONTE SPRINGS GREASE TRAP SIZING METHOD
 $(D) \times (MF) \times (GL) \times (RT) \times (ST) = \text{CAPACITY IN GALLONS}$
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

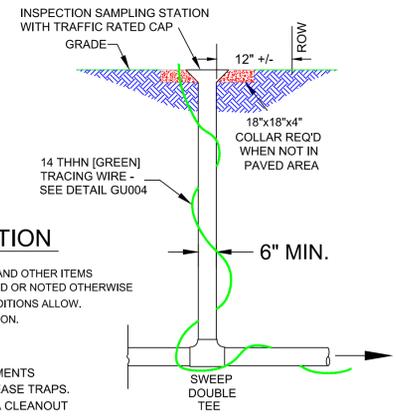
NOTE:

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

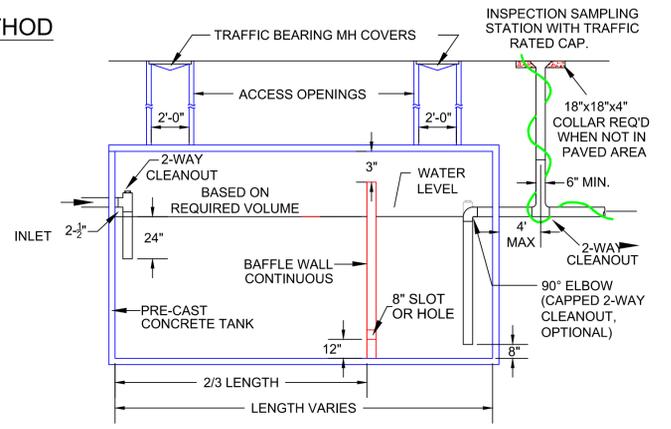
INSPECTION SAMPLING STATION

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

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



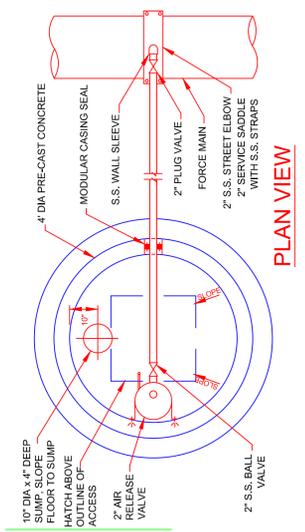
DOUBLE COMPARTMENT GREASE TRAP & INSPECTION SAMPLING STATION
SS005-2



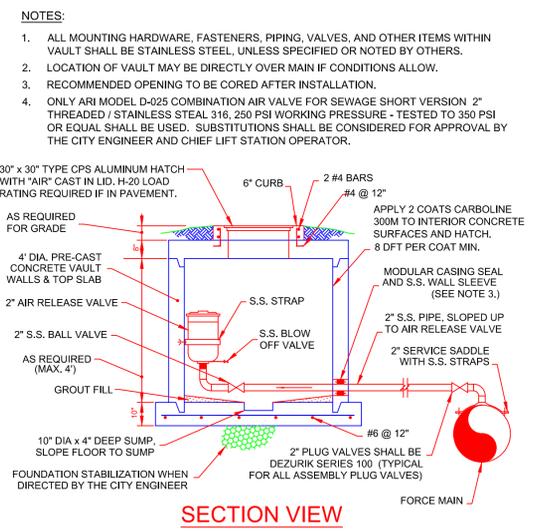
GREASE TRAP DOUBLE COMPARTMENT (NOT TO SCALE)

NOTE: WIDTH VARIES

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



PLAN VIEW

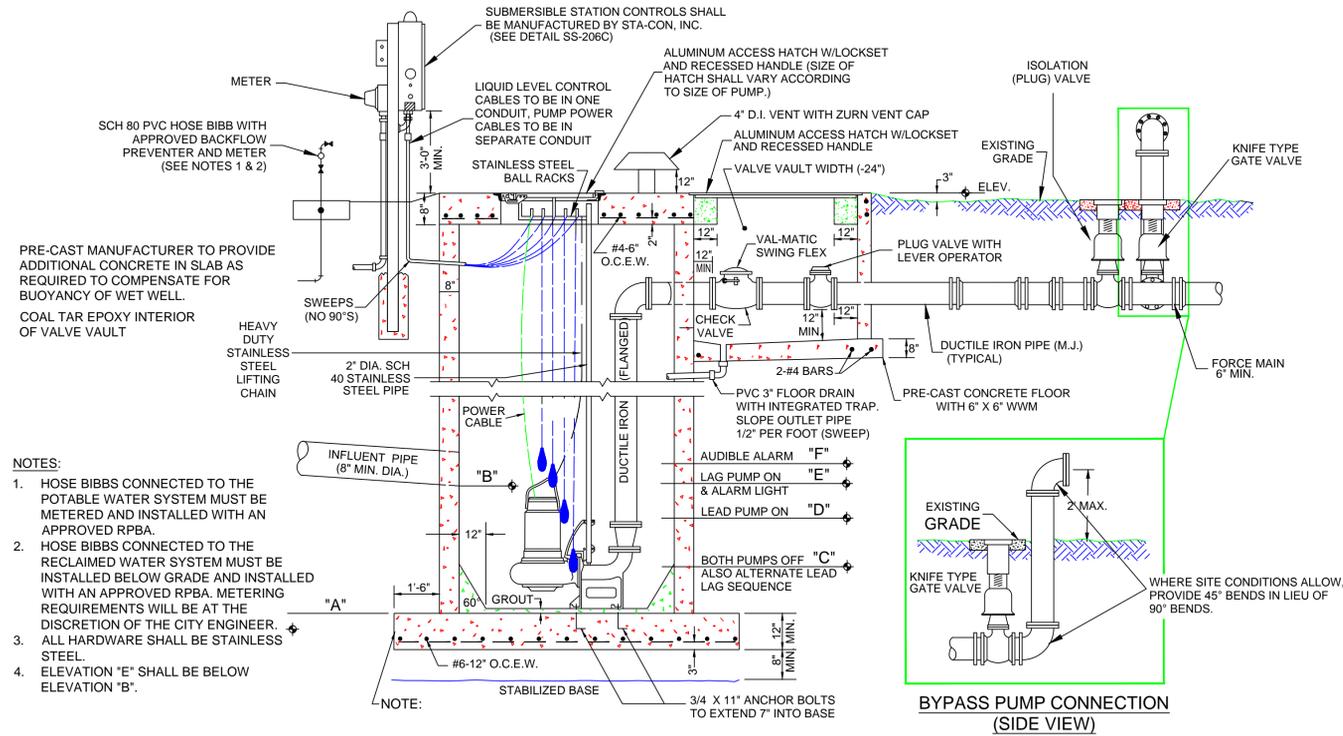


SECTION VIEW

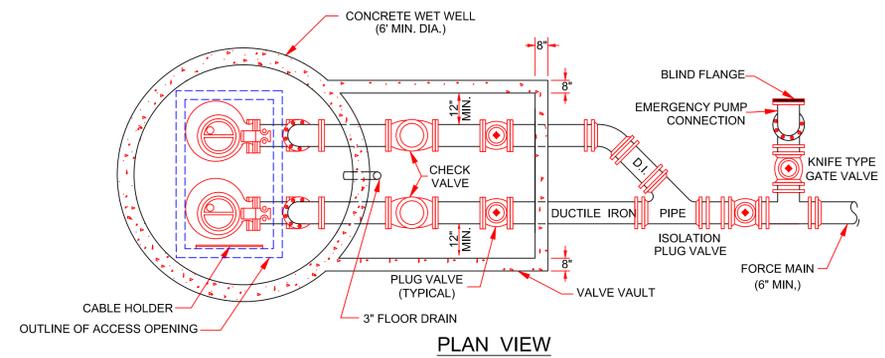
- NOTES:**
- ALL MOUNTING HARDWARE, FASTENERS, PIPING, VALVES, AND OTHER ITEMS WITHIN VAULT SHALL BE STAINLESS STEEL, UNLESS SPECIFIED OR NOTED BY OTHERS.
 - LOCATION OF VAULT MAY BE DIRECTLY OVER MAIN IF CONDITIONS ALLOW.
 - RECOMMENDED OPENING TO BE CORED AFTER INSTALLATION.
 - ONLY ARI MODEL D-025 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.

AIR RELEASE VALVE ASSEMBLY
SS006-2

PUBLIC WORKS & UTILITIES ENGINEERING AND DESIGN STANDARDS ISSUED 2015 REVISED 03/31/2015 BY:DJB	CITY OF ALTAMONTE SPRINGS 225 NEWBURYPORT AVE ALTAMONTE SPRINGS, FLORIDA 32701 SS901-1 SANITARY SEWER DETAILS - CITY PROJECTS	DATE: X
		SCALE: X
1		SHEET 1 OF 1



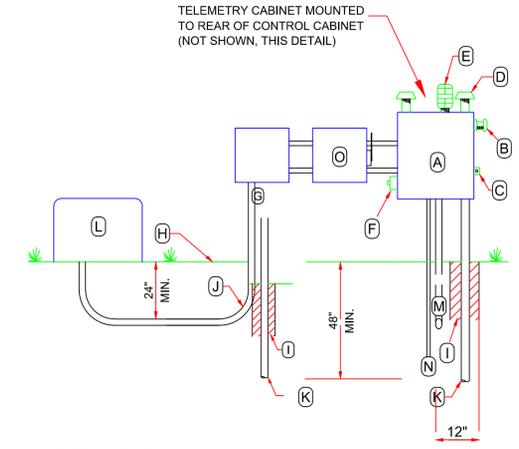
LIFT STATION ELEVATION
SS007-1A



INDEX OF REQUIRED PUMP PULLING CABLES

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

LIFT STATION PLAN VIEW
SS007-1B



- A. CONTROL CABINET
 - B. GENERATOR RECEPTACLE (RUSSELLSTOLL FCB 3144R ONLY)
 - C. PAD LOCK BRACKET
 - D. PIPE CAP
 - E. RED WARNING LIGHT
 - F. ALARM SHUT-OFF
 - G. METER BASE
 - H. GROUND ELEVATION
 - I. CONCRETE FOOTING
 - J. ALUMINUM POWER CONDUIT
 - K. S.S. OR ALUMINUM STAND PIPE
 - L. POWER TRANSFORMER
 - M. CONDUIT TO MOTORS
 - N. BUBBLER LINE
 - O. STAINLESS STEEL KNIFE SWITCH
- NOTE:
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.

LIFT STATION CONTROL CABINET
SS007-1C

PUBLIC WORKS & UTILITIES ENGINEERING AND DESIGN STANDARDS ISSUED 2015 REVISED 03/31/2015 BY:DJB	CITY OF ALTAMONTE SPRINGS 225 NEWBURYPORT AVE ALTAMONTE SPRINGS, FLORIDA 32701	DATE: X SCALE: X
	SS902-1 LIFT STATION DETAILS - CITY PROJECTS	1 SHEET 1 OF 1

SS902-1 LIFT STATION DETAILS - CITY PROJECTS.DWG REVISED 03/31/2015 BY:DJB