Grit/Sand/Oil Interceptor Specifications

Please provide a plumbing diagram showing that all equipment, fixtures and drains located in any process or clean up area are plumbed to a properly sized grit/sand/oil interceptor. Grit/Sand/Oil interceptors in Arlington are sized based on the total potential flow from all plumbing fixtures/drains located in any process or clean up area. To download a interceptor sizing spreadsheet, please visit ArlingtonTX.gov and search for "Grit Interceptor Sizing Calculator." Provide top and side view cutaway details and inlet/outlet sanitary tee details for the Grit/Sand/Oil interceptor matching the ones below.

Grit/Sand/Oil interceptor notes required on plans.

1. The interceptor will be designed, constructed, and installed for adequate load bearing capacity. The interceptor will be installed outside the building. If located in a traffic area, indicate that the interceptor and its covers will be traffic rated.

2. The interceptor manhole covers, lids, rings, etc. will be sealed from inflow and infiltration, are at least 24 inches in diameter, meet or exceed AASHTO standard M-306 for load bearing, and are equivalent to an East Jordan Ironworks V-1432 or a Sigma Foundry MH1675.

3. Bricks, stones, or any other unapproved device will not be used to bring manhole openings or covers to grade. Risers or other components shall not impede the manhole openings. Manhole openings shall be sealed from inflow and infiltration.

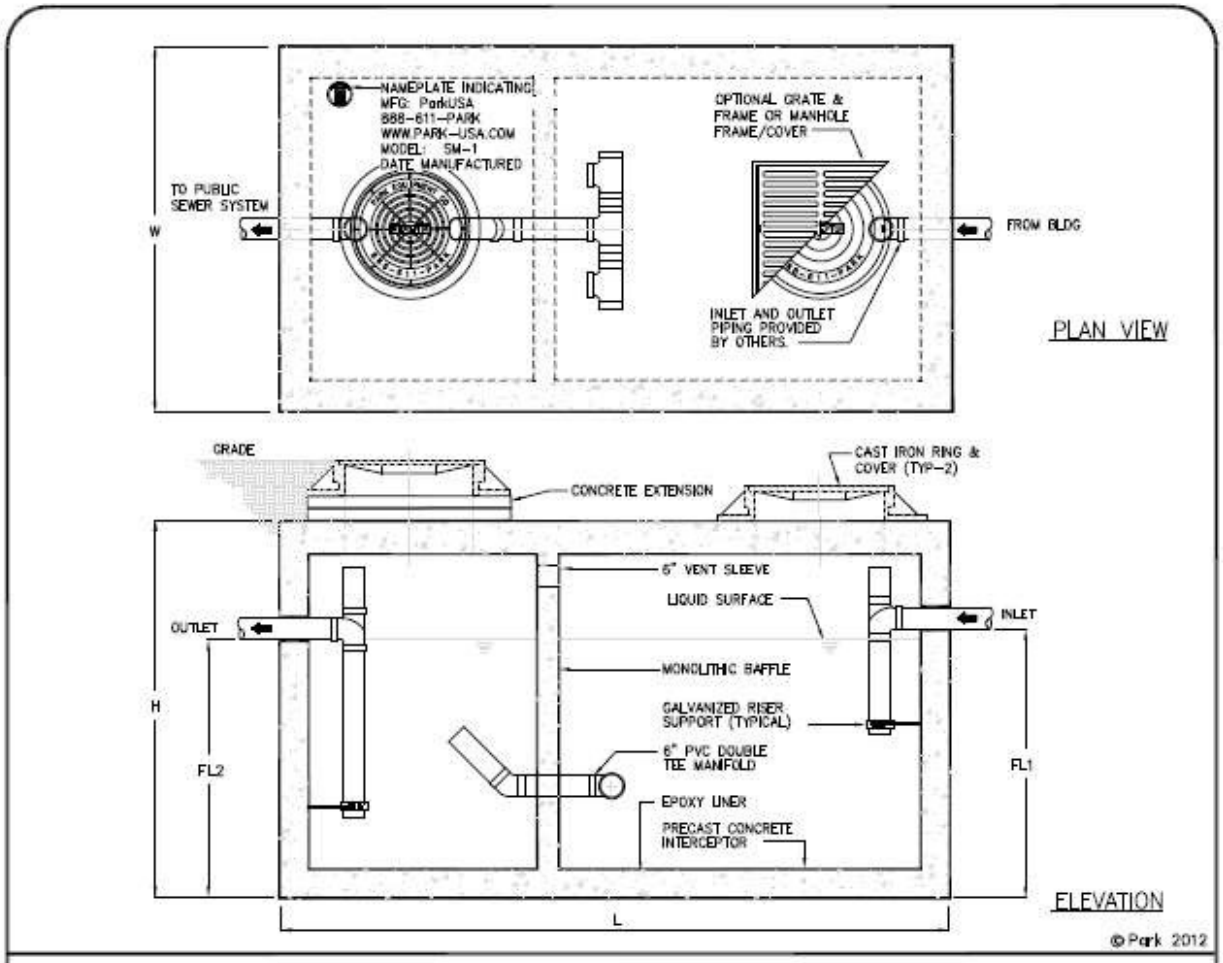
4. The sample well design is equivalent to a Park Equipment Co. SWB-1, PW Eagle WAC-15 or CSC-15, or Schier Foglifter. Sample wells must have a minimum diameter of 15 inches and be installed outside the building. All covers, lids, rings, etc. will be sealed from inflow and infiltration and will not have holes through them. . The sample well must be plumbed to capture all discharges from the facility (including both domestic and grease waste).

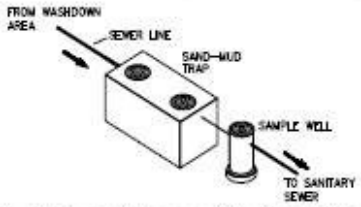
5. The securing device will consist of a valve box top section, with an eye bolt mounted in concrete, and that the device construction must be equivalent to a Bass & Hays 340-1. The securing device will be located within two feet of the sample well.

For questions about grease interceptors call 817-459-5876. For information about the

permitting process call 817-459-6502.

Appendix A:
Typical Sand/Mud Interceptor—Top and Side View Cutaway Details





Typical applications include commercial and industrial laundry facilities where excessive sand & mud may interfere with the proper drainage of the sewer system. The sand-mud interceptor is generally buried below grade for gravity flow sewer systems. A sample well is utilized on the outlet side for sampling by the local water authority.

SAND-MUD INTERCEPTOR SCHEDULE

MODEL NO.	CAPACITY USGal	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
SM-500	500	9,500	7'-10"	4'-4"	4'-6"	3'-3"	3'-0"
SM-750	750	9,900	7'-10"	4'-4"	6'-0"	4'-5"	4'-2"
SM-1000	1,000	13,350	8'-8"	5'-0"	6'-0"	4'-9"	4'-6"
SM-1250	1,250	14,650	9'-2"	5'-8"	6'-0"	4'-9"	4'-6"
SM-1500	1,500	16,050	9'-2"	5'-8"	7'-0"	5'-9"	5'-6"
SM-2000	2,000	21,250	9'-0"	6'-0"	8'-0"	6'-9"	6'-6"
SM-2500	2,500	27,050	13'-0"	7'-0"	7'-0"	5'-9"	5'-6"
SM-3000	3,000	33,150	13'-0"	7'-0"	8'-0"	6'-9"	6'-6"
SM-3500	3,500	38,550	13'-0"	7'-0"	8'-6"	7'-3"	7'-0"
SM-4000	4,000	38,100	16'-0"	8'-6"	7'-0"	5'-9"	5'-6"

OTHER SIZES ARE AVAILABLE. CONTACT US FOR MORE INFORMATION

Specifications

CONCRETE : Class II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor, first stage of wall and baffle with sectional riser to required depth. (Monolithic baffle required, slide-in type is not acceptable)

REINFORCEMENT: Grade 60 reinforced with steel rebar conforming to ASTM A615 on required centers or equal.

C.I. CASTINGS: Manhole frames, covers or grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30. Manhole shall be nominal 24 inch diameter and be traffic duty.

Engineering Data

The sand & mud interceptor is structurally & hydraulically engineered to conform to regional plumbing codes recommended in most cities. Consult with local authorities for specific application requirements.

Shop drawings shall include complete structural & bouyancy calculations certified by a licensed professional engineer.

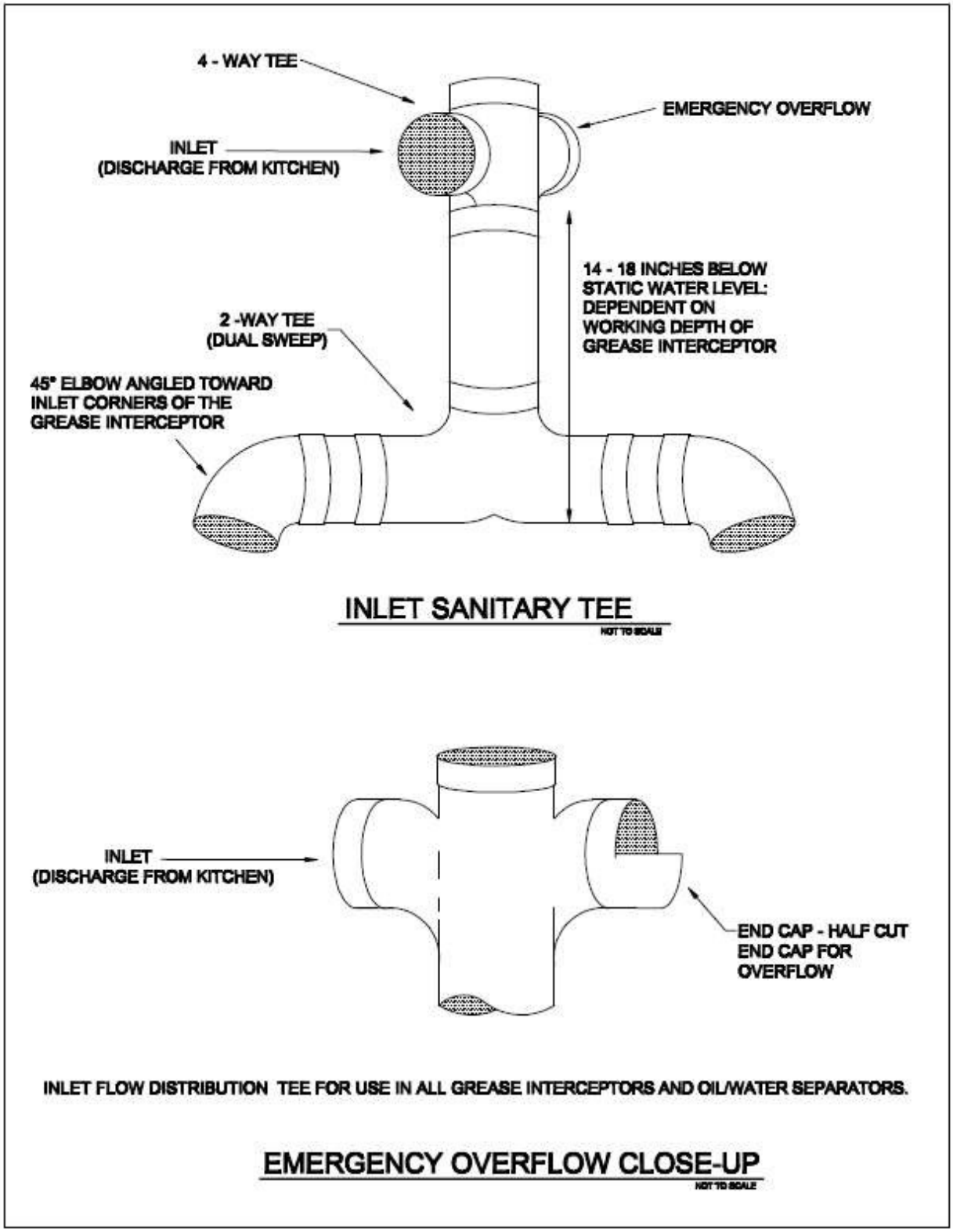
Consult with Park Environmental for exact excavation dimensions & shipping information.

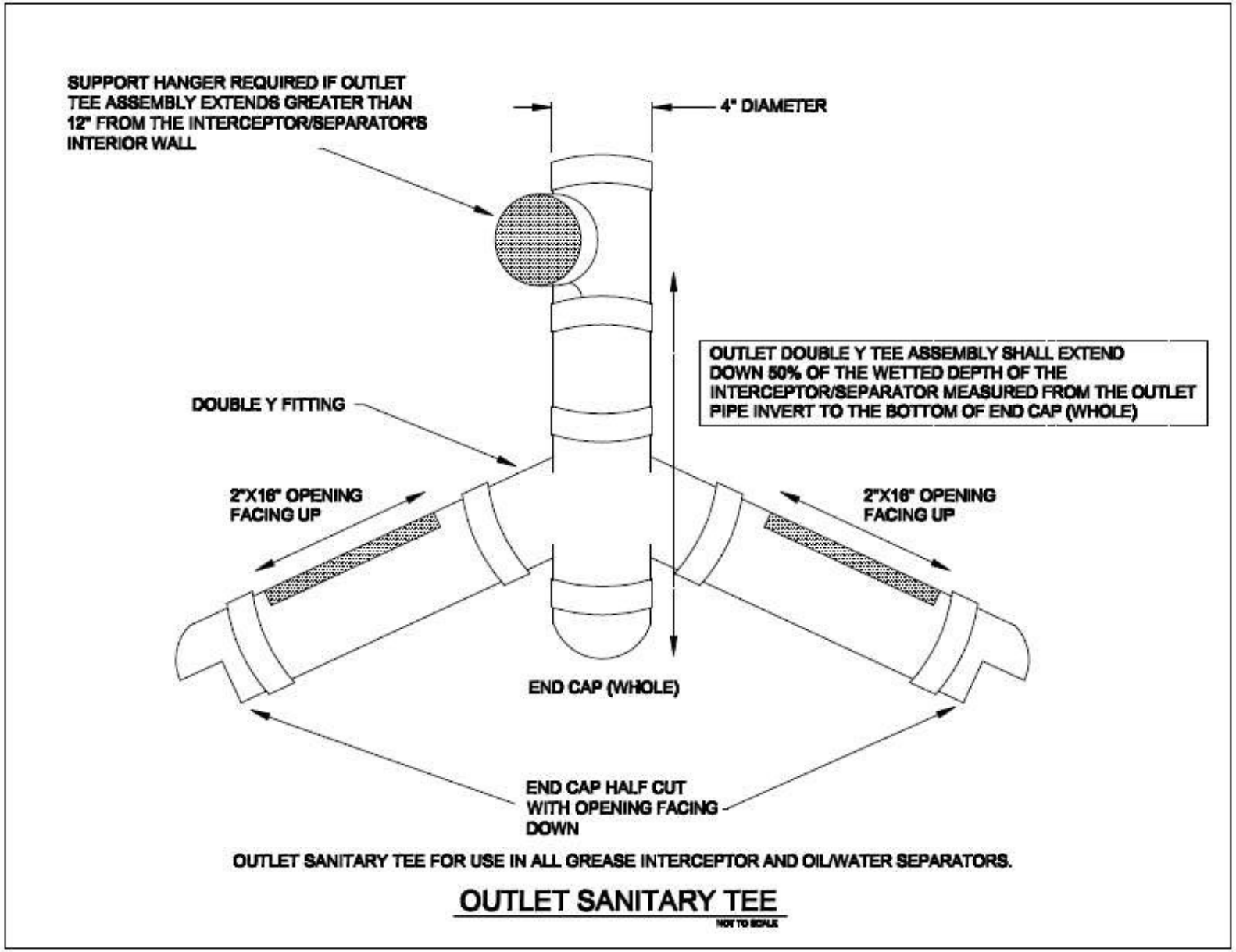
888.611.7275
www.park-usa.com
PARK USA
Design for Water

SAND-MUD INTERCEPTOR
MODEL SM - 500 THRU 4000 GALLONS

SCALE	NONE	DWG. NO.	SM-1	REV.	A
DATE	2012				

Appendix B:
Grease Interceptor Design Specifications—Inlet and Outlet Sanitary Tee Details





OUTLET SANITARY TEE FOR USE IN ALL GREASE INTERCEPTOR AND OIL/WATER SEPARATORS.

OUTLET SANITARY TEE

NOT TO SCALE

Appendix C:
Interceptor Manhole Cover Detail Examples

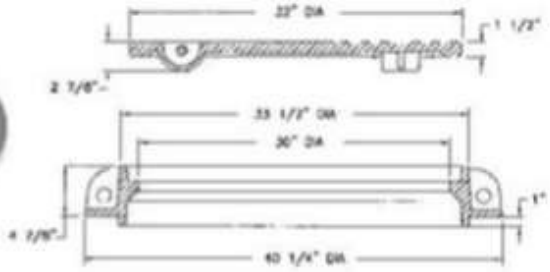
East Jordan Ironworks V-1432 Details:

V-1432 FRAME & COVER

Heavy duty
Machined bearing surfaces

Options:
Custom logo covers
Special lettered covers
Watertite assembly
Adjusting risers
Grates
Pick slots



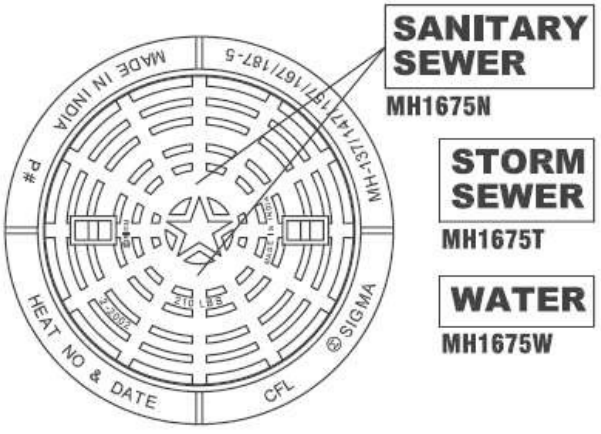


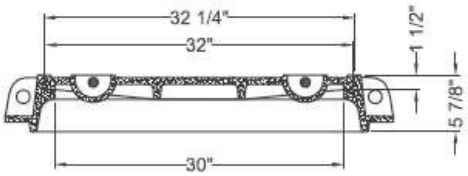




Sigma Foundry MH1675 Details:

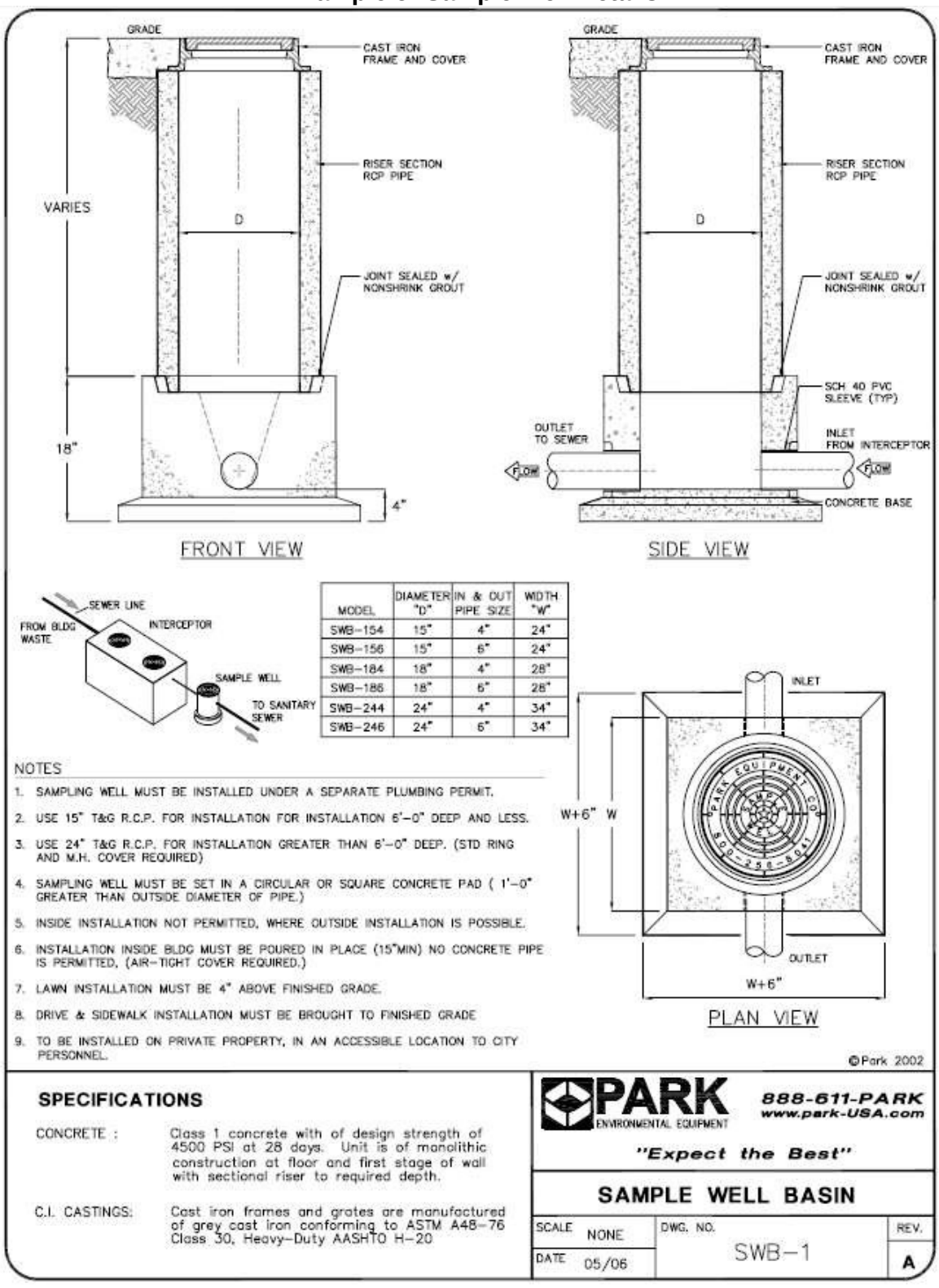
MH1675





Weight: 430 lbs.

Appendix D:
Example of Sample Well Details



MODEL	DIAMETER "D"	IN & OUT PIPE SIZE	WIDTH "W"
SWB-154	15"	4"	24"
SWB-156	15"	6"	24"
SWB-184	18"	4"	28"
SWB-186	18"	6"	28"
SWB-244	24"	4"	34"
SWB-246	24"	6"	34"

NOTES

1. SAMPLING WELL MUST BE INSTALLED UNDER A SEPARATE PLUMBING PERMIT.
2. USE 15" T&G R.C.P. FOR INSTALLATION FOR INSTALLATION 6'-0" DEEP AND LESS.
3. USE 24" T&G R.C.P. FOR INSTALLATION GREATER THAN 6'-0" DEEP. (STD RING AND M.H. COVER REQUIRED)
4. SAMPLING WELL MUST BE SET IN A CIRCULAR OR SQUARE CONCRETE PAD (1'-0" GREATER THAN OUTSIDE DIAMETER OF PIPE.)
5. INSIDE INSTALLATION NOT PERMITTED, WHERE OUTSIDE INSTALLATION IS POSSIBLE.
6. INSTALLATION INSIDE BLDG MUST BE POURED IN PLACE (15"MIN) NO CONCRETE PIPE IS PERMITTED, (AIR-TIGHT COVER REQUIRED.)
7. LAWN INSTALLATION MUST BE 4" ABOVE FINISHED GRADE.
8. DRIVE & SIDEWALK INSTALLATION MUST BE BROUGHT TO FINISHED GRADE
9. TO BE INSTALLED ON PRIVATE PROPERTY, IN AN ACCESSIBLE LOCATION TO CITY PERSONNEL.

©Park 2002

SPECIFICATIONS

CONCRETE : Class 1 concrete with of design strength of 4500 PSI at 28 days. Unit is of manolithic construction at floor and first stage of wall with sectional riser to required depth.

C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30, Heavy-Duty AASHTO H-20

PARK ENVIRONMENTAL EQUIPMENT 888-611-PARK www.park-USA.com

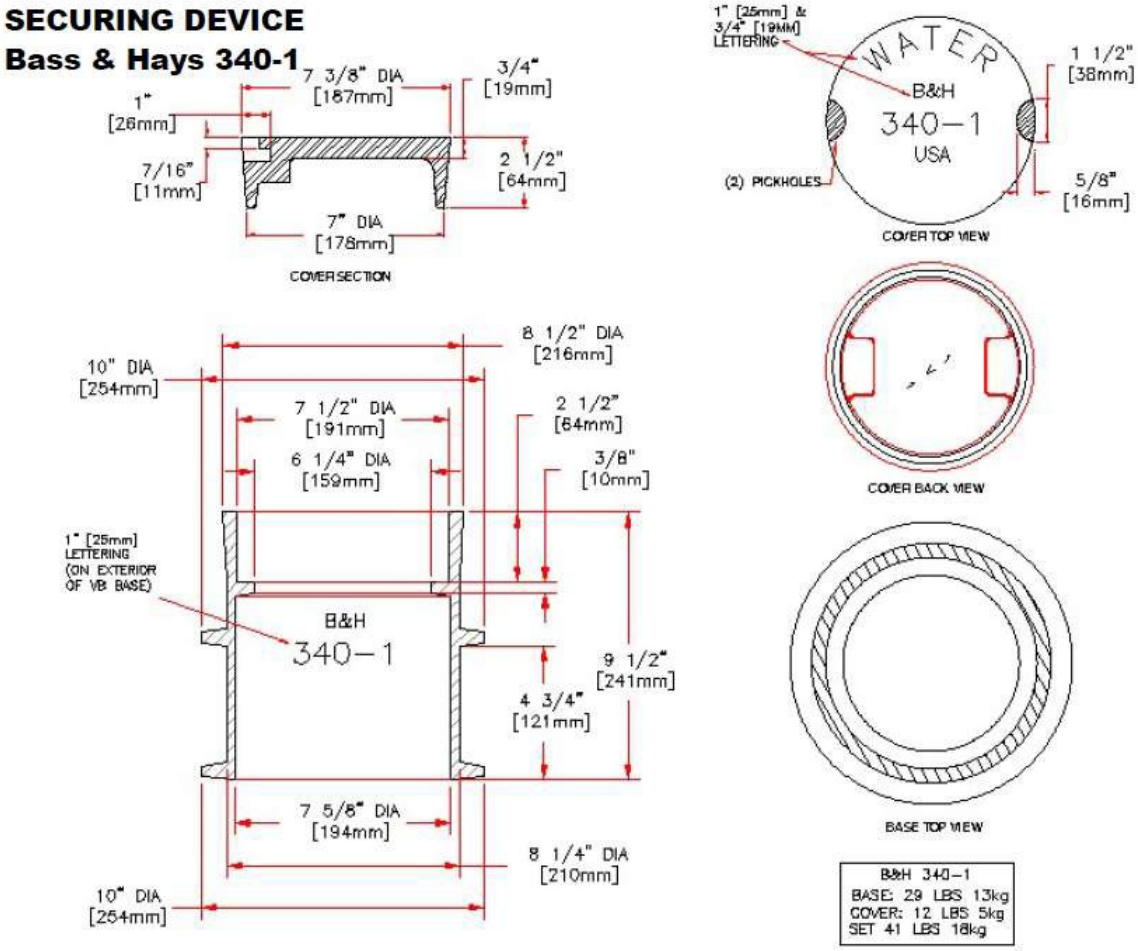
"Expect the Best"

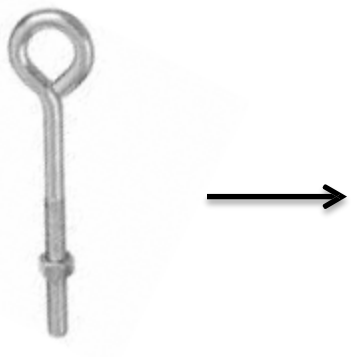
SAMPLE WELL BASIN

SCALE	NONE	DWG. NO.	REV.
DATE	05/06	SWB-1	A

Sample wells must have a minimum diameter of 15 inches and must be installed outside the building. The covers, lids, rings, etc. must be sealed from inflow and infiltration, i.e. the lids must not have holes through them.

Appendix E:
Example of Securing Device Top Cover Details







3/8 X 8” Stainless Steel Eyebolt



Finished sample well and securing device.

The sample well must be plumbed to capture all discharges from the facility (including both domestic and grease waste).