

## INSTALLATIONS

### BELOW GRADE/BACKFILL INSTALL:

1. Install the interceptor(s) as close as practical to the fixtures being served.
2. The excavation must be a minimum of 12" greater on all sides of the tank.
3. The depth of the excavation must be greater than 6" on the bottom of the interceptor.
4. Backfill while filling the interceptor with water at an equal rate until you reach the inlet/outlet. (Do not pack the backfill)
5. Fully install the double wall corrugated pipe and lid prior to backfilling.
6. Concrete or finishing material requirements are to be determined by the specifying engineer.
7. Encase the interceptor in well-packed 4" rock, or sand. Do not compact backfill around interceptor.
8. To prevent float out, the Anchor kit is recommended for installations in high water table conditions. This is to be determined by the specifying engineer.
9. Fill the interceptor with 12" of water, then backfill 12" to match the water level. (Repeat operation until Filled) Properly backfill per project specs. (Note: Do not compact backfill around unit)

### FINISHED CONCRETE SLAB

Slab must extend 18" minimum outside the footprint of the unit. Pedestrian traffic areas: 4" Thick reinforced concrete slab required. Vehicular traffic areas: Minimum 8" thick concrete slab with rebar is required.

Thickness of concrete around cover to be determined by specifying engineer. If traffic loading is required, the concrete slab dimensions shown are for guide purposes only. Concrete to be 28 day compressive strength to 4,000 PSI. Use #4 rebar (1/2" grade 60 steel per ASTM A615; connected with tie wire. Rebar to be 2-1/2" from edge of concrete and spaced in a 12" grid with 4" spacing around access openings.

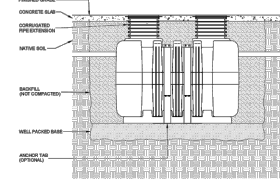


FIG. 12

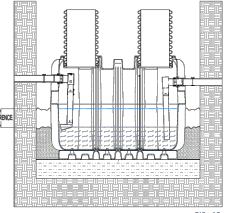


FIG. 13

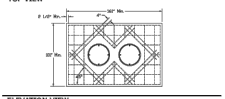


FIG. 14

CONCRETE SLAB DETAIL

## INSTALLATIONS

### GENERAL INSTALLATION

1. The 500 thru 1500 SUPER-MAX interceptors can be installed below and above grade. The SUPER-MAX 2000 can only be installed below grade. The HDPE ribbed construction allows these interceptors to be placed on an engineered approved, load compliant and level surface. Under normal use, SUPER-MAX interceptors will require no additional support to maintain full functionality. Seismic ratings and needs should be determined by a design engineer and based on established codes. The interceptor should be placed in a visible and easily accessible area for maintenance, cleaning, and inspection. Allowing space for the service provider to properly clean the vessel is a key consideration to efficient functionality.
2. MIFAB interceptors should be set in place by the installer. The installer should ensure the pad/plate is level and load rate compliant. The designed storage capacity of the interceptor and required codes will determine the plumbing schedule.
3. When installing a MIFAB Interceptor, proper venting is strongly recommended. Venting can be installed on the outlet of the unit which is preferred, or as close as possible to the outlet connection. MIFAB recommends a vent at least 50% the diameter of the system's outlet connection. ALWAYS consider and follow all local and industry code requirements.
4. Connection to the plumbing system is achieved by the use of no hub couplings. MIFAB recommends the use of Quick Hub no hub couplings. This will provide protection for the pipe at the connection points and ensure a strong connection between the SUPER-MAX unit and the plumbing system. No hub couplings should be installed and torqued to the supplying manufacturer's recommendations.
5. Each SUPER-MAX unit is supplied with a factory sized internal flow control for each size unit available. An optional, external vent flow control fitting is available when the -PDI suffix is selected.
6. Pipe supports should be located every 16" on all vertical and horizontal piping. Allow for expansion as per local and national codes.
7. When combining more than one gress or solids Interceptor in series or parallel always provide a 1" fall or change in grade between units.

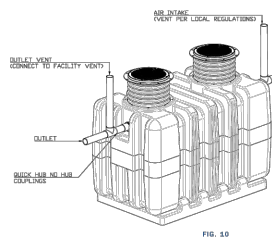


FIG. 10

Note: The 500 thru 1500 SUPER-MAX interceptors can be installed below and above grade. The SUPER-MAX 2000 can only be installed below grade.

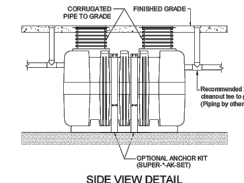


FIG. 11

SIDE VIEW DETAIL

## SPECIAL PRECAUTIONS

### 5. INSTALLATION SUPPORT - ANCHOR KITS

Anchor kits are recommended for installation in high water table conditions to prevent floating. Necessity to be determined by Project Engineer. Hold down force is achieved by backfill weight acting on anchor plates. Bolt upper support brace together, then place over center channel. Bolt the anchor plate and upper support brace together using bolting hardware. Anchor plate may be bolted to concrete slab using provided holes.

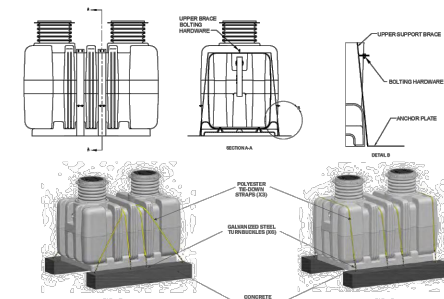


FIG. 5

SUPER-AK-SET-2 (SPECIFY SIZE)

The SUPER-AK-SET-2 is used when greater hold down strength is required. The polyester tie-down straps and turnbuckles are rated at 2,200 lbs. working load each.

FIG. 6

SUPER-AK-SET-3 (SPECIFY SIZE)

The SUPER-AK-SET-3 is used when greater hold down strength is required. The polyester tie-down straps are rated at 4,000 lbs. working load each and the turnbuckles are rated at 5,200 lbs. each.

DEADMAN DETAIL

FIG. 5

FIG. 6

FIG. 5

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FIG. 6

## SPECIAL PRECAUTIONS

### 1. HIGH TEMPERATURE KITCHEN WATER

If there is water entering the interceptor at over 150°F, a drain water tempering valve and approved backflow prevention assembly must be installed. Generally, State and local plumbing codes prohibit water above 150°F from being discharged into the sewer.

### 2. HYDROSTATIC SLABS (OR PRESSURE SLABS)

Interceptor must be enclosed in a water concrete vault when installed under a hydrostatic slab (slab designed to withstand upward lift typically caused by hydrostatic pressure).

#### Installation not applicable for SUPER-2000

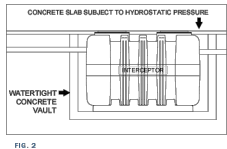


FIG. 2

### 3. MAXIMUM WATER LEVEL

The water level must not go above the height of inlet / outlet connection

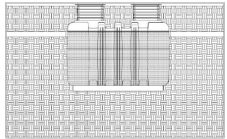


FIG. 3

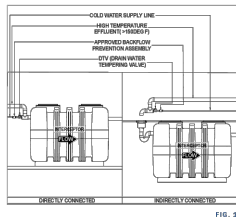


FIG. 1

### 4. HIGH WATER TABLE INSTALLATIONS

Interceptor and extension cannot withstand excessive water table height - see max water table height in figure 3. If possible, interceptor and extension should be installed in a water-tight concrete vault or backfilled with concrete or flowable fill (pour wet concrete and flowable backfill in stages to avoid crushing the interceptor). SUPER-MAX models buried in high water table are required to be installed with an anchor kit. High Risk Areas: Floodplains, tidal surge and high storm-water areas.

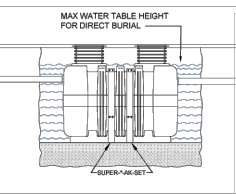
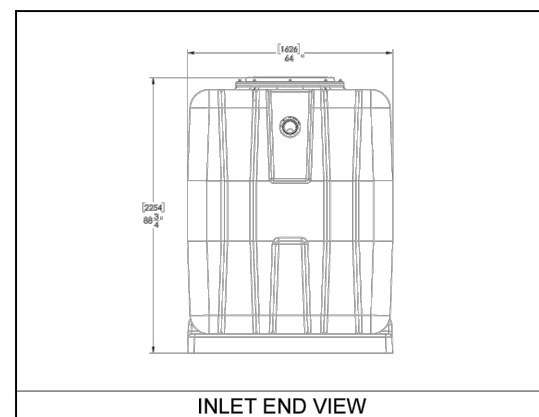
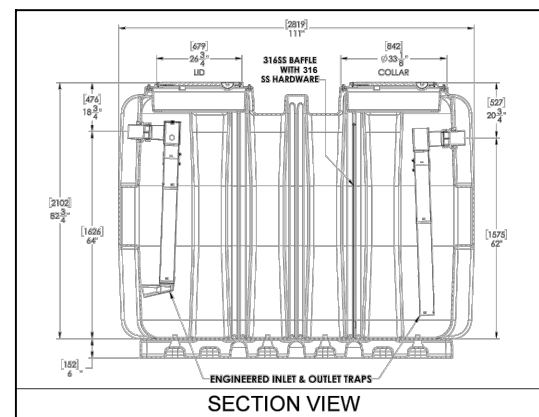
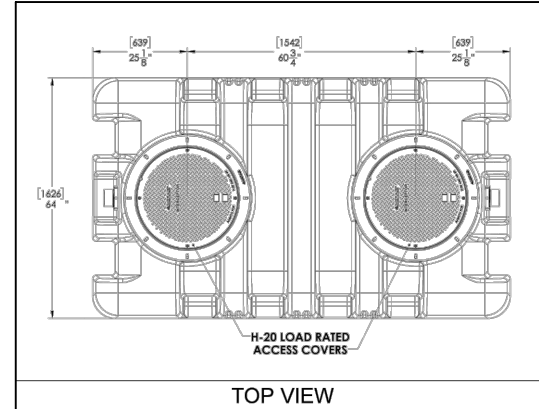


FIG. 4



### FOX METRO WATER RECLAMATION DISTRICT NOTES:

- Minimum of 42" of cover and a minimum of 1.00% slope is required for all exterior 4" and 6" piping
- All external pipe connections shall be made with non-shear couplings
- Pipe type(s) installed upstream and downstream of unit as per the approved plan
- Only CA-7 Class 1A stone is required 6" under and 12" over all external piping
- 6" units shall be installed when the proposed design indicates 6" piping upstream and downstream, 4" connections are only used when a 4" sewer exits the building, passes through the unit, and then re-joins the 4" internal building drain.
- Only H20 (min) load-rates cast-iron lids and frames with concealed pick holes and watertight gaskets are allowed and shall be equivalent to Neenah cat. 8R-1712-B or East Jordan cat. #1051-3
- For exterior installations, dual manway units are required in Fox Metro's service area. No venting is required
- No flow control devices are allowed.
- The baffle and its hardware to be made out of 316 Stainless Steel.



TITLE: SUPER-1500-FM			
SIZE: C	DWG. NO. XXXXX	REV	
SCALE:	WEIGHT:	SHEET 1 OF 1	

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