1. MINIMUM SUMP INTERIOR DIMENSIONS
   OF 3' X 3' X 30", OR 30" X 3' DIA.

2. HIGH TEMPERATURE (200°F) RATED
   PUMP (CONTINUOUS SUBMERSION)
   AND HARD-WIRED HIGH TEMPERATURE
   (200°F) FLOAT. NO CONTROL PANELS,
   EVEN FOR DUPLEX PUMPS.

Pipe to leave vault/tunnel and run minimum
36" underground (frost heaves) until in close
proximity of discharge point.

Size piping for 50% safety margin on friction
head loses, no margin on static elevation head,
only one pump operating at a time (but both
pumps could operate at same time). Pump minimum
GPM to be 25 GPM at design head (single pump
operating).

Stainless steel basin
or formed concrete

Place pumps on top of 8"
cinder block, or inside 12"
tall stainless steel basket,
with 3/16" dia. perforated
holes (U.S. Plastic Corp.,
12 x 12 stainless dipping
baskets).

Stainless steel basin
or formed concrete

Drain, 1/2" ball valve
with threaded cap

1/2" mesh grating, removable
without disassembling piping,
trim grate as necessary to
allow person to reach down
to manually operate pump
switch (typ).

Minimum slope
of 1/2" per foot

2 layers of non-
underlapping rigid
board insulation (as
dictated on a project
by project basis)

Welded-on ring (for
cast-in place sumps)

Stainless steel worm-gear
clamp, or multiple zipties
(typ). Floats to be set 2-3"
different in elevation

30" deep

Vault or Tunnel Sump Pump Detail