

Hamilton County Water & Wastewater
Treatment Authority
(WWTA)

Inspection Information and Typical Details for
Septic Tank Effluent Pump (STEP) Systems

February 28, 2006

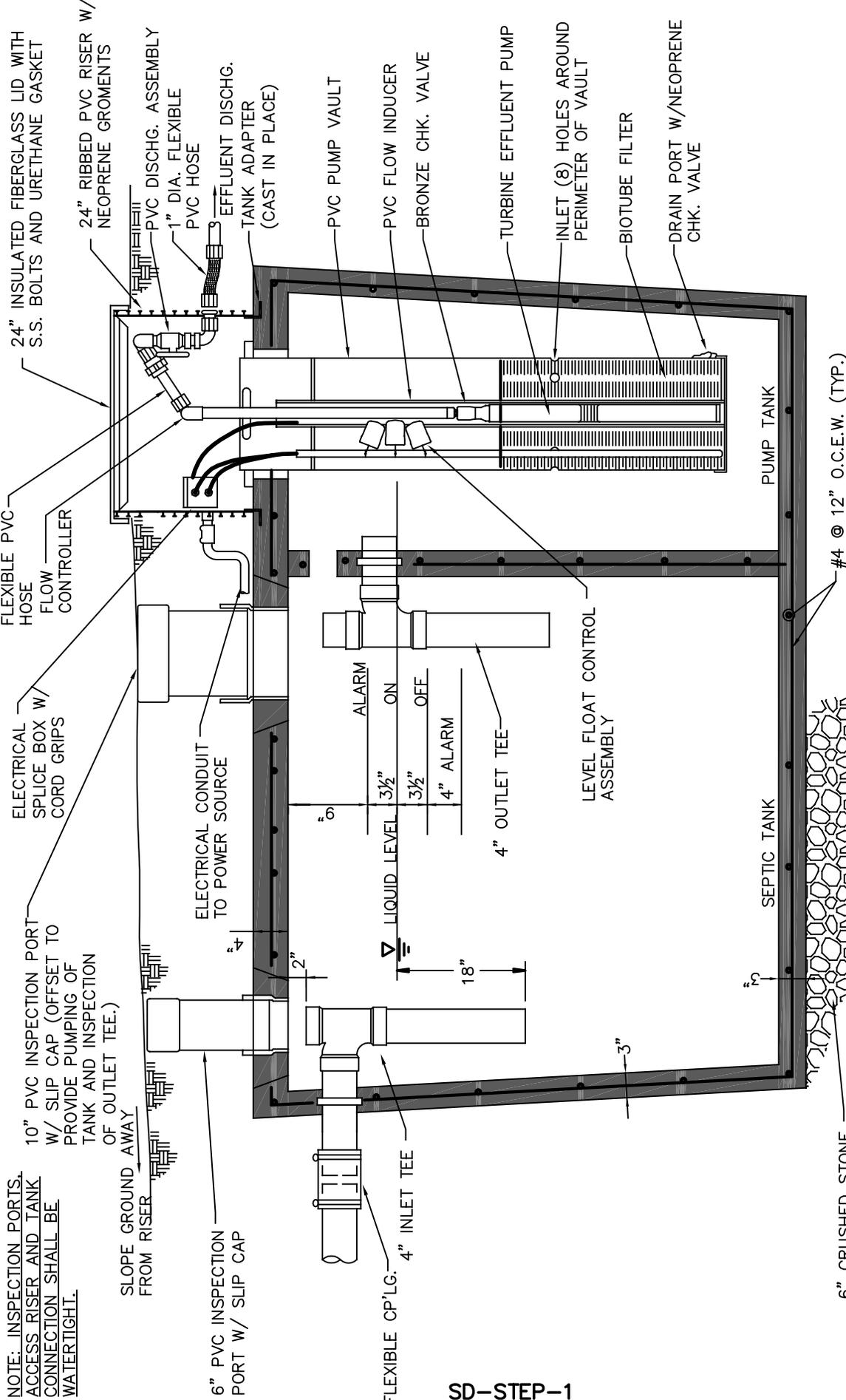
Septic Tank Effluent Pump (STEP) Systems

Call 423-209-7842 for Inspection.

Notes:

1. The inspection fee includes two inspection visits. Follow-up inspections due to failed tests of lack of coordination between the plumbing and/or electrical contractor shall be billed per extra inspection.
2. The WWTA shall be notified a minimum of 48 hours in advance for inspection.
3. The electrical permit shall be verified prior to installation of tank and pump controls.

NOTE: INSPECTION PORTS, ACCESS RISER AND TANK CONNECTION SHALL BE WATERTIGHT.



24" INSULATED FIBERGLASS LID WITH S.S. BOLTS AND URETHANE GASKET

24" RIBBED PVC RISER W/ NEOPRENE GROUNTS

PVC DISCHG. ASSEMBLY
1" DIA. FLEXIBLE PVC HOSE

EFFLUENT DISCHG. TANK ADAPTER (CAST IN PLACE)

PVC PUMP VAULT

PVC FLOW INDUCER

BRONZE CHK. VALVE

TURBINE EFFLUENT PUMP

INLET (8) HOLES AROUND PERIMETER OF VAULT

BIOTUBE FILTER

DRAIN PORT W/NEOPRENE CHK. VALVE

PUMP TANK

SEPTIC TANK

#4 @ 12" O.C.E.W. (TYP.)

6" CRUSHED STONE IN SOIL
12" CRUSHED STONE IN ROCK

FLEXIBLE PVC HOSE FLOW CONTROLLER

ELECTRICAL SPlice BOX W/ CORD GRIPS

ELECTRICAL CONDUIT TO POWER SOURCE

ALARM ON
3 1/2" LIQUID LEVEL
3 1/2" OFF
4" ALARM

4" OUTLET TEE

LEVEL FLOAT CONTROL ASSEMBLY

SLOPE GROUND AWAY FROM RISER

10" PVC INSPECTION PORT W/ SLIP CAP (OFFSET TO PROVIDE PUMPING OF TANK AND INSPECTION OF OUTLET TEE.)

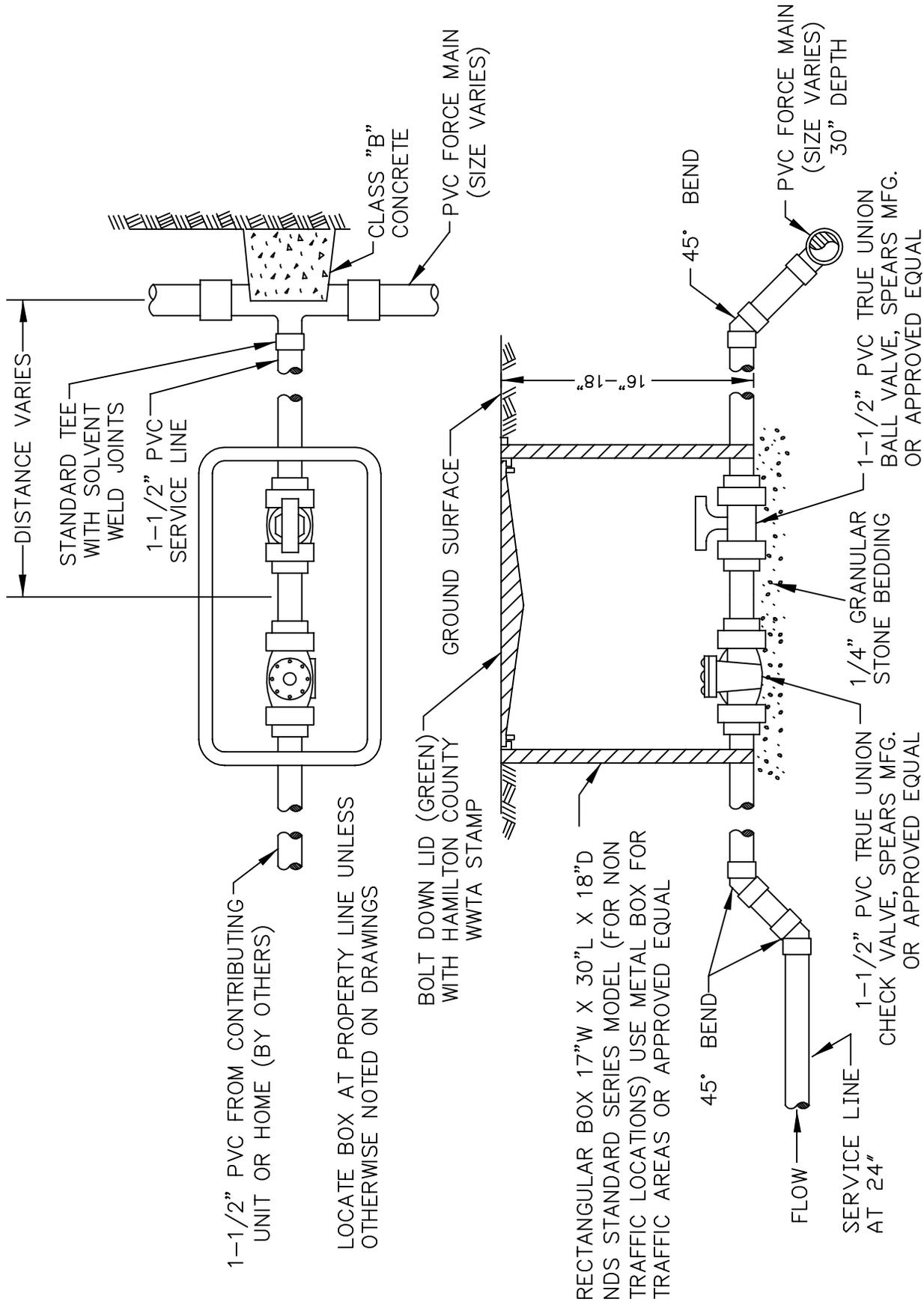
6" PVC INSPECTION PORT W/ SLIP CAP

FLEXIBLE CP'LG. 4" INLET TEE

SD-STEP-1

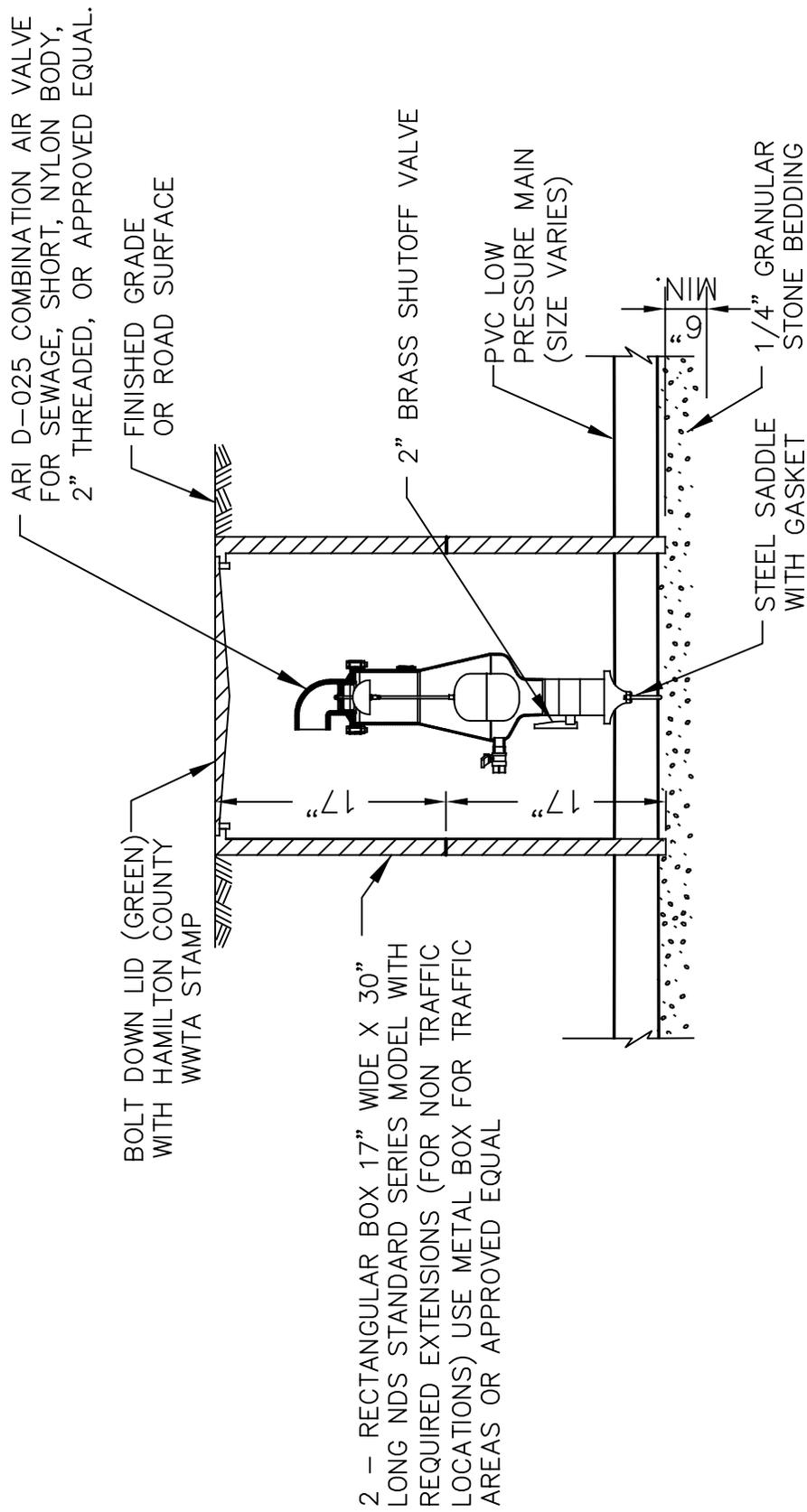
SEPTIC TANK EFFLUENT PUMP (STEP) INSTALLATION DETAIL

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY



SEPTIC TANK EFFLUENT PUMP (STEP) CONNECTION BOX

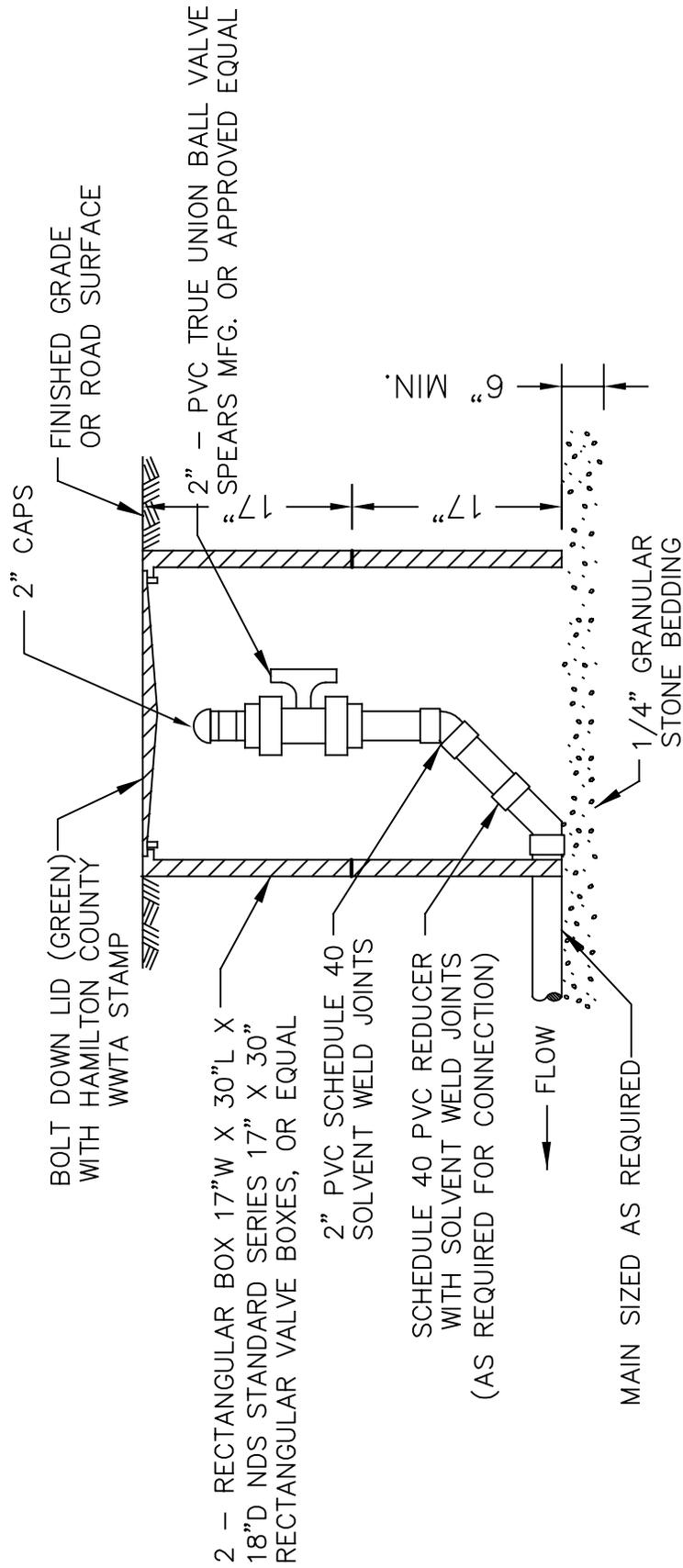
HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY



SD-STEP-3

SEPTIC TANK EFFLUENT PUMP (STEP) AIR RELEASE VALVE

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY



2" CAPS
FINISHED GRADE
OR ROAD SURFACE

BOLT DOWN LID (GREEN)
WITH HAMILTON COUNTY
WWTA STAMP

2" - PVC TRUE UNION BALL VALVE
SPEARS MFG. OR APPROVED EQUAL

2" PVC SCHEDULE 40
SOLVENT WELD JOINTS

SCHEDULE 40 PVC REDUCER
WITH SOLVENT WELD JOINTS
(AS REQUIRED FOR CONNECTION)

FLOW

MAIN SIZED AS REQUIRED

1/4" GRANULAR
STONE BEDDING

6" MIN.

SEPTIC TANK EFFLUENT PUMP (STEP) TERMINAL CLEANOUT