

CAMU Containment Cell Monitoring



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CAMU

Corrective Action Management Unit

CAMU Containment Cell Monitoring

- Chemical Waste Landfill
 - 1.9 ac site
 - operational 1962 – 1985
 - chemical waste disposal
 - 52,000 cy contaminated soil excavated
 - organics, metals, PCBs, acids, tritium, etc.

CAMU Containment Cell Monitoring

- Corrective Action Management Unit
40 CFR 264.552
on-site staging – treatment – containment of hazardous waste
1997 - 2003
- Treatment Processes
low temperature thermal desorption – organics
soil stabilization - metals
containment - PCBs
off-site disposal

CAMU Containment Cell Monitoring

- CAMU Containment Cell (200 ft X 300 ft)
engineered liner system

leachate removal & collection system

geo-membrane – 60 mil HDPE

geo-synthetic clay liner

final cover system

Vegetative cover

capillary barrier

60 mil HDPE base liner

CAMU Containment Cell Monitoring

- Emplaced Waste

16,660 cy stabilized, metal contaminated soil

2,700 cy organic contaminated soil treated by low temperature thermal desorption (LTTD)

6,000 cy LTTD & stabilization

6,500 cy PCB contaminated soil (>50 mg/L)

16,000 cy untreated soil

CAMU Containment Cell Monitoring

- Vadose Zone Monitoring System (VZMS)

primary subliner system (PSL)

vertical sensor array (VSA)

CWL & sanitary sewer line (CSS)

CAMU Containment Cell Monitoring

- Monitoring Systems cont.

PSL – soil moisture, vapor (neutron density probe, Summa Canister)

VSL – soil moisture, temperature, gas (TDR, thermocouple, gas sampler)

CSS – soil moisture, soil gas (neutron density probe, gas sampler)

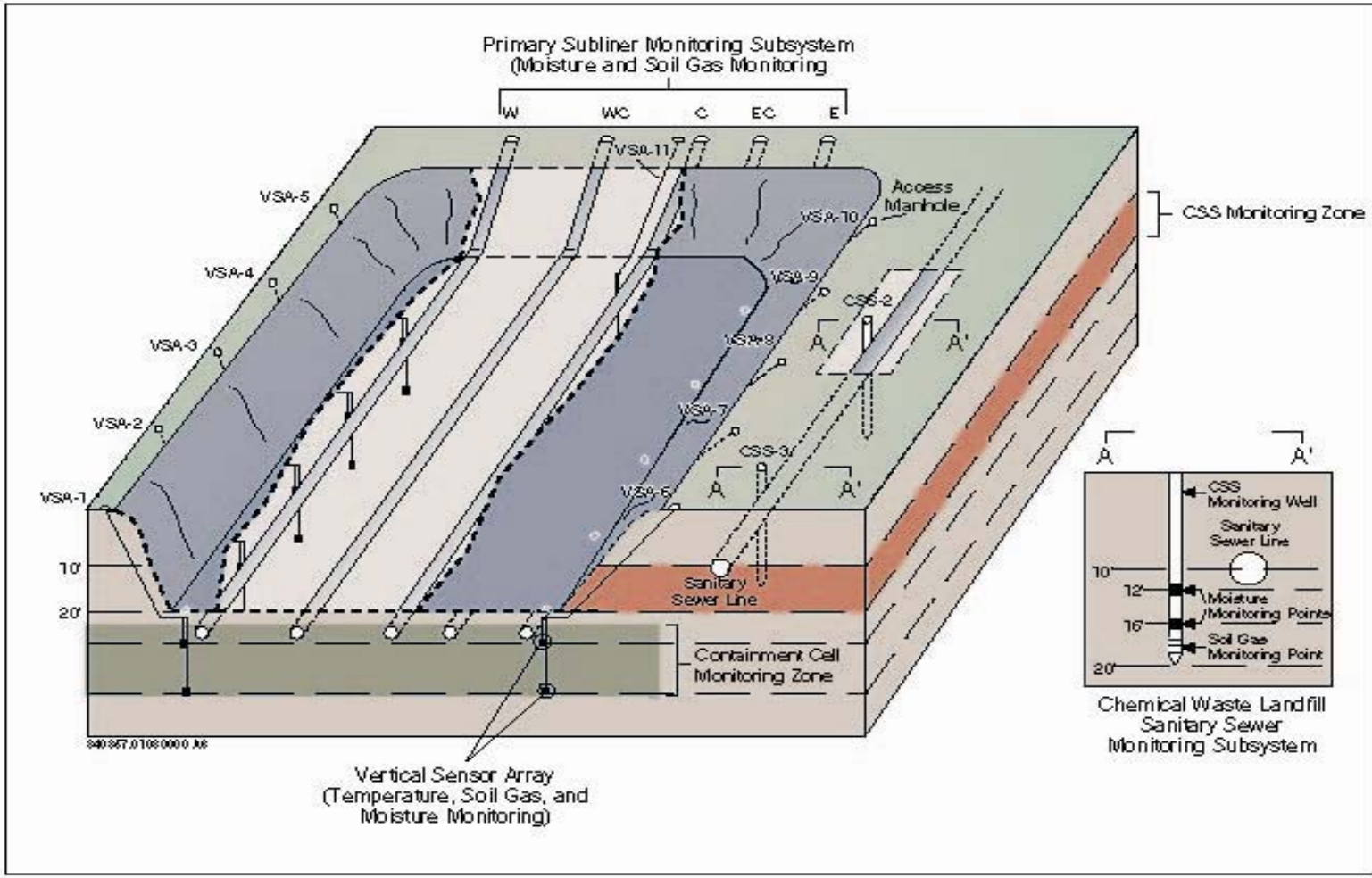


Figure 2.0-3
Block Diagram of CAMU Containment Cell and Vadose Zone Monitoring System

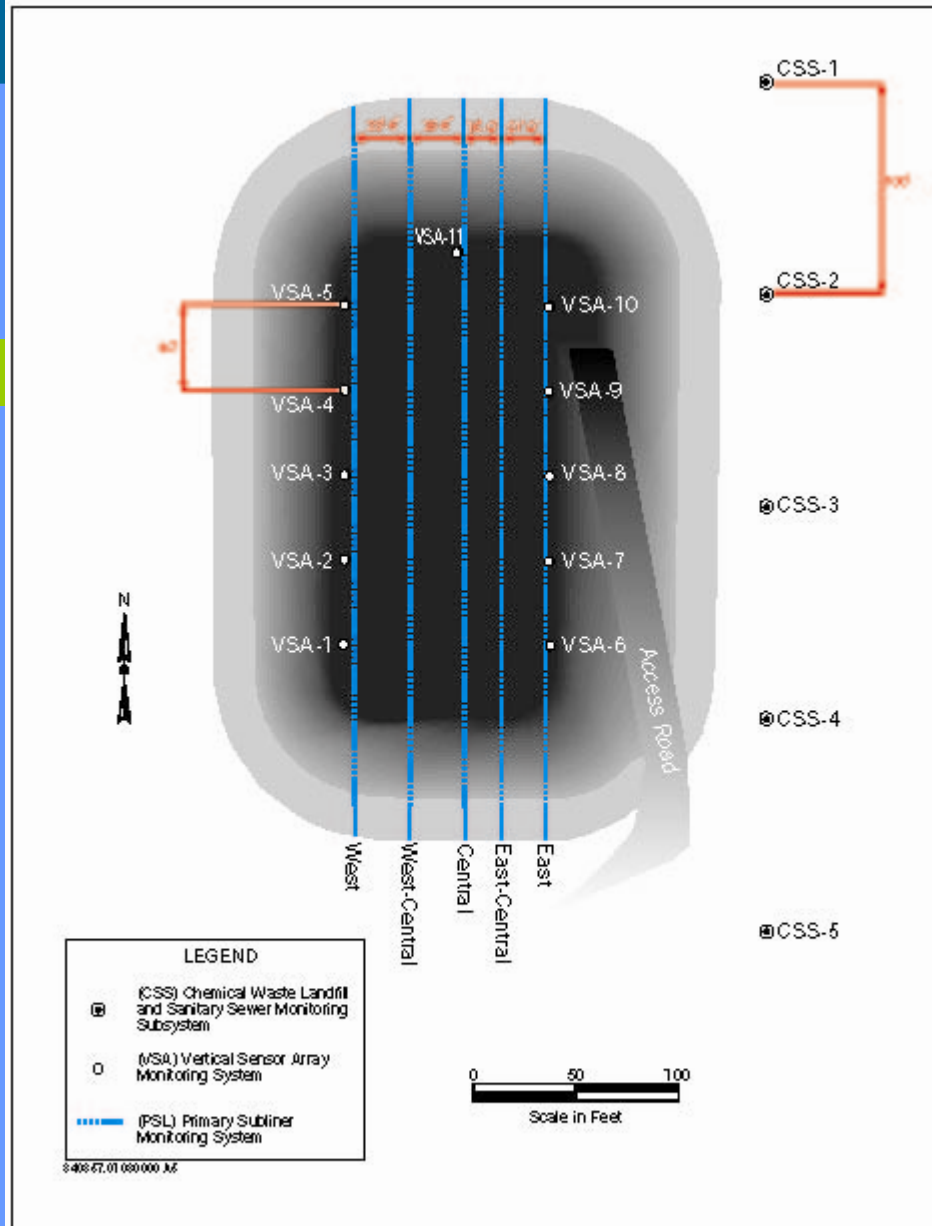
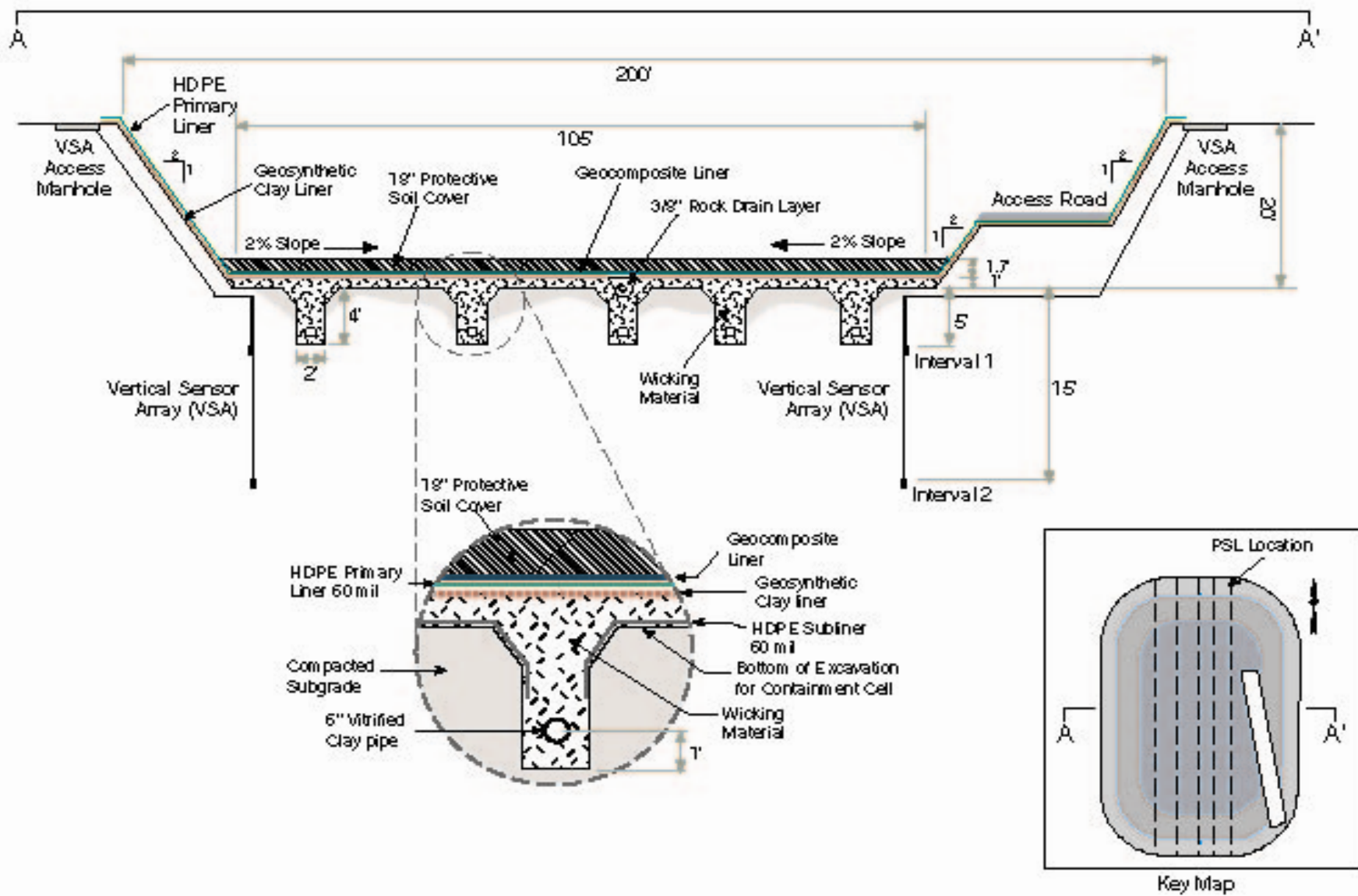


Figure 2-10

Plan View of CAMU Containment Cell and Vadose Zone Monitoring System



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Figure 2-12

Cross-Sectional View of CAMU Containment Cell and Primary Subliner Monitoring Subsystem

2-6

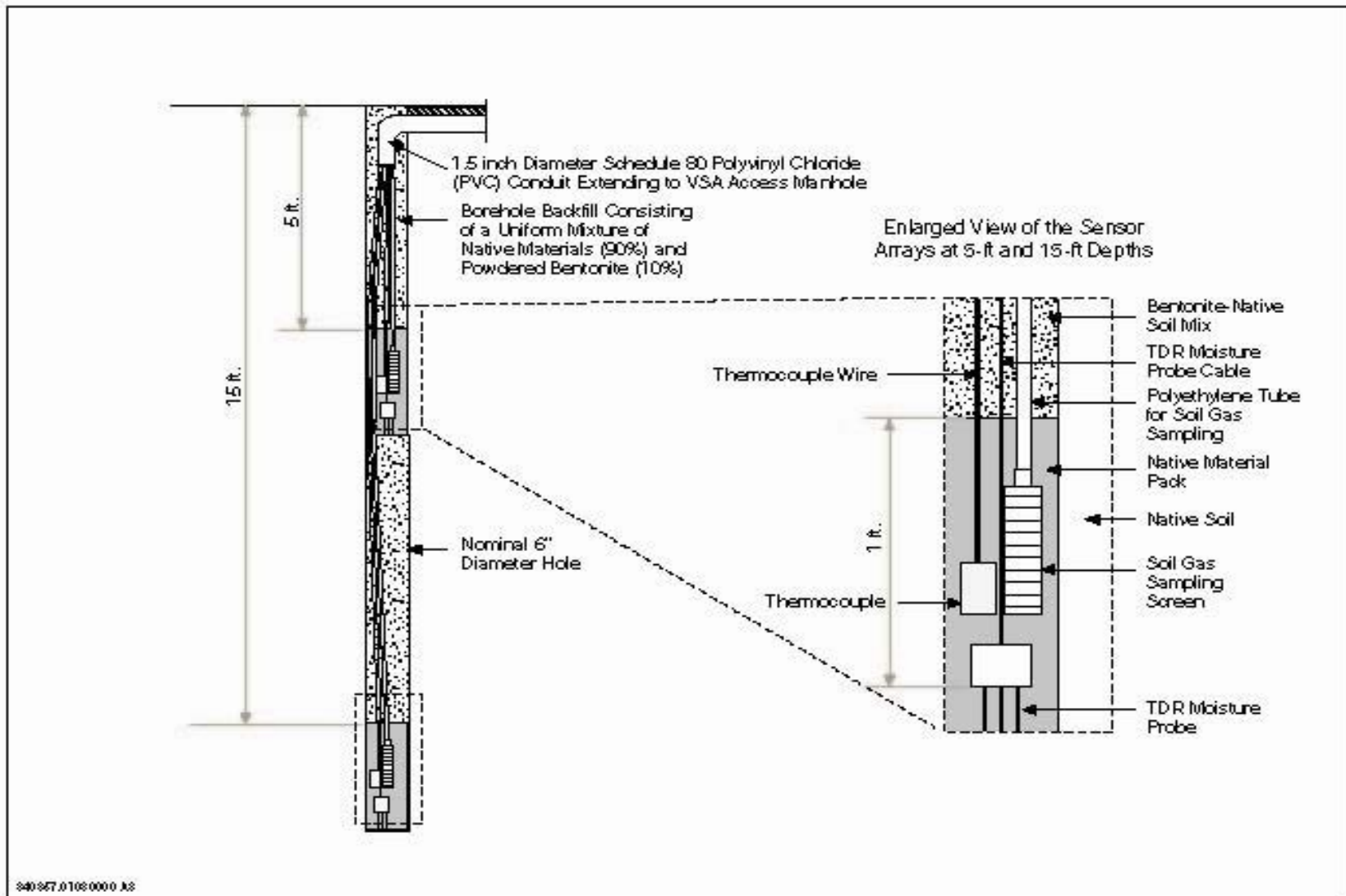


Figure 2.2-1
Configuration of Vertical Sensor Array Monitoring Subsystem

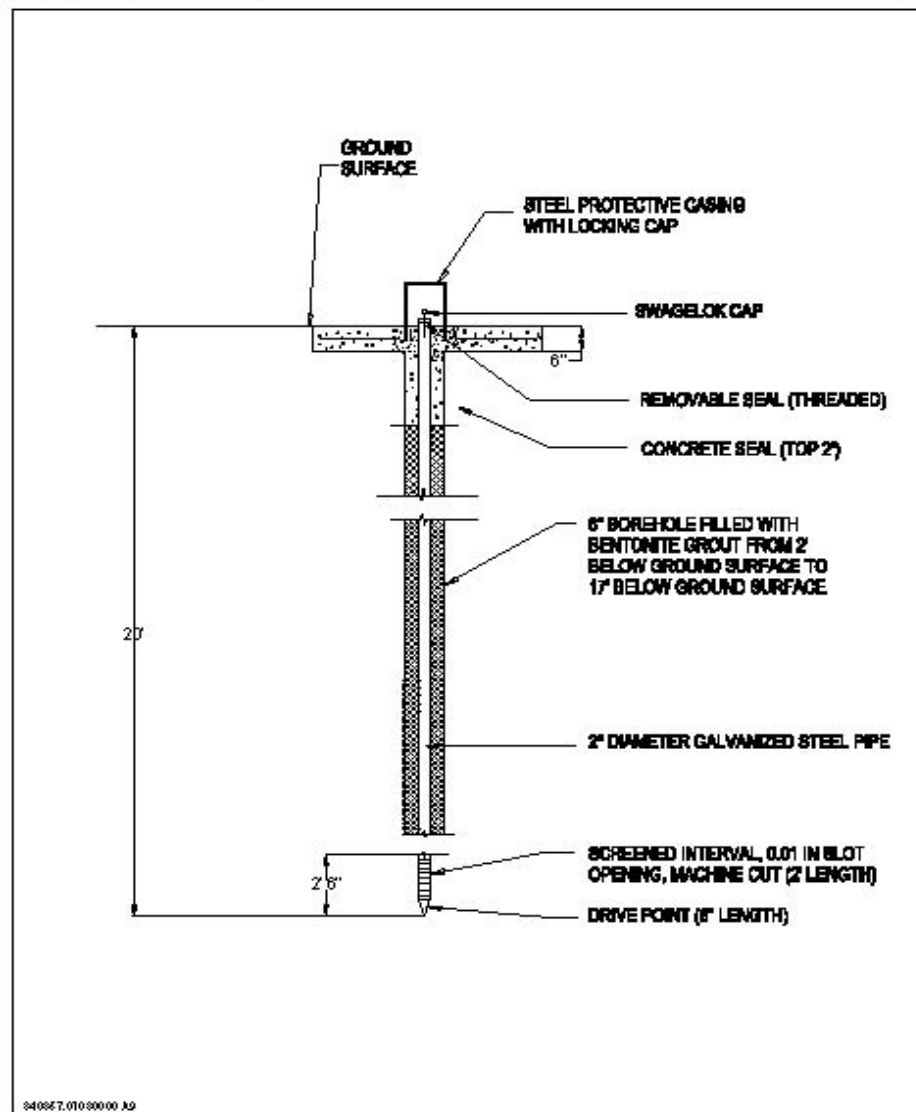


Figure 2.3-1
Configuration of Chemical Waste Landfill and
Sanitary Sewer Monitoring Subsystem