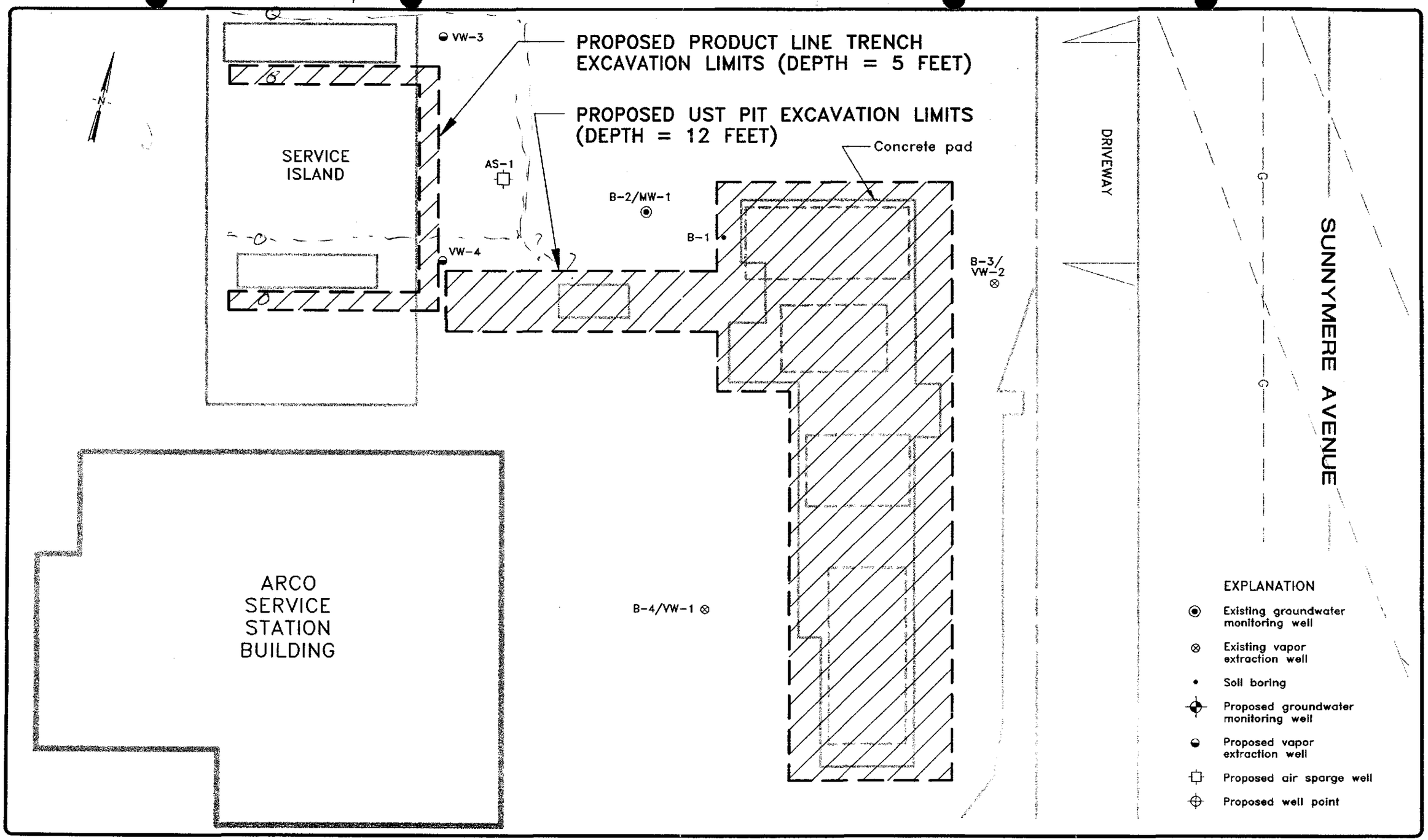
Surplus directed



EMCON

SCALE: 0 10 20 FEET

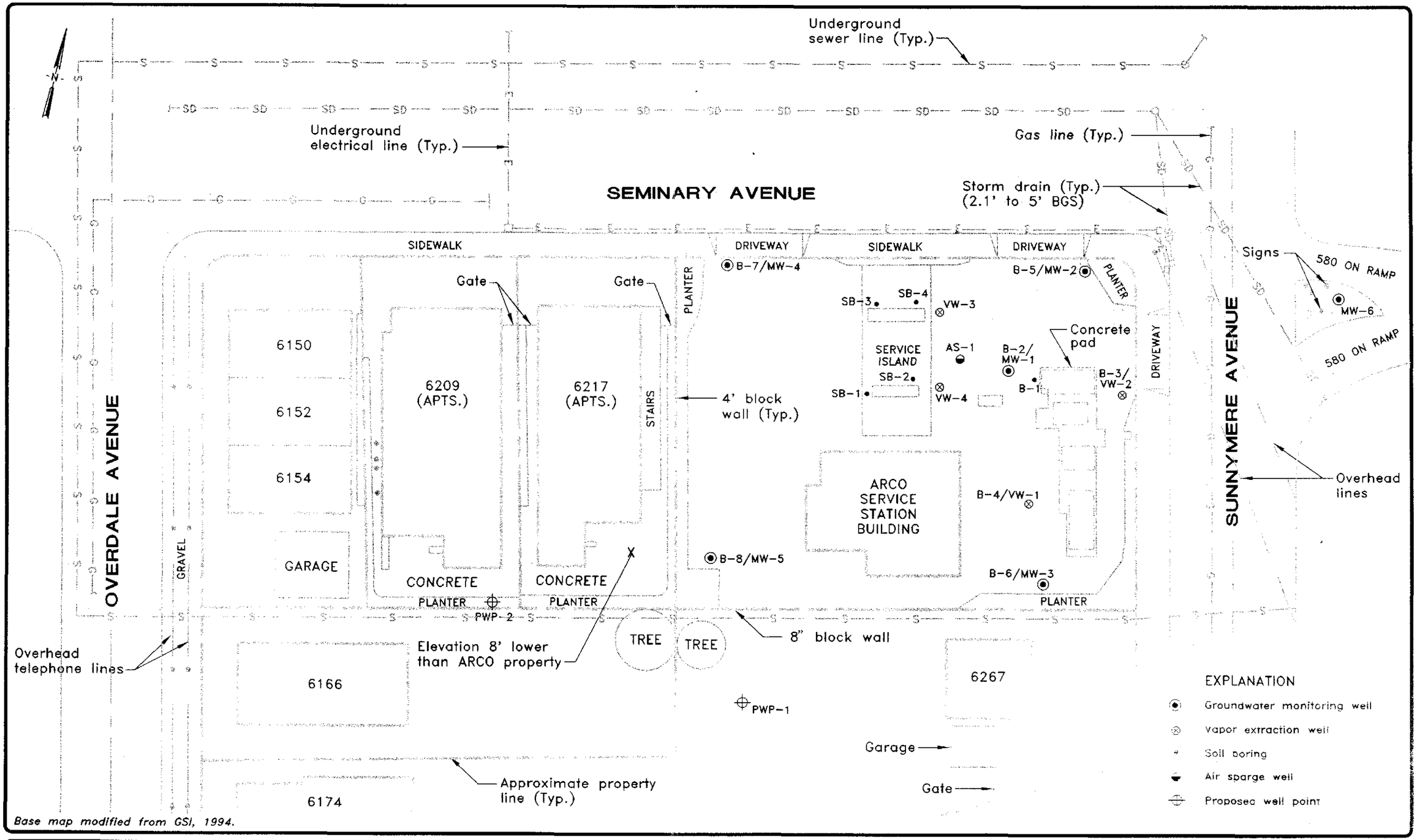
ARCO PRODUCTS COMPANY
SERVICE STATION 6002, 6235 SEMINARY AVE.
WORK PLAN
OAKLAND, CALIFORNIA

PROPOSED UST EXCAVATION LIMITS

FIGURE NO. 1

PROJECT NO. 805-131.02

G:\805-131\USTEXC REV 0 02/07/96 14:21:29 DD DJ



Base map modified from GSI, 1994.

EMCON

SCALE: 0 30 60 FEET

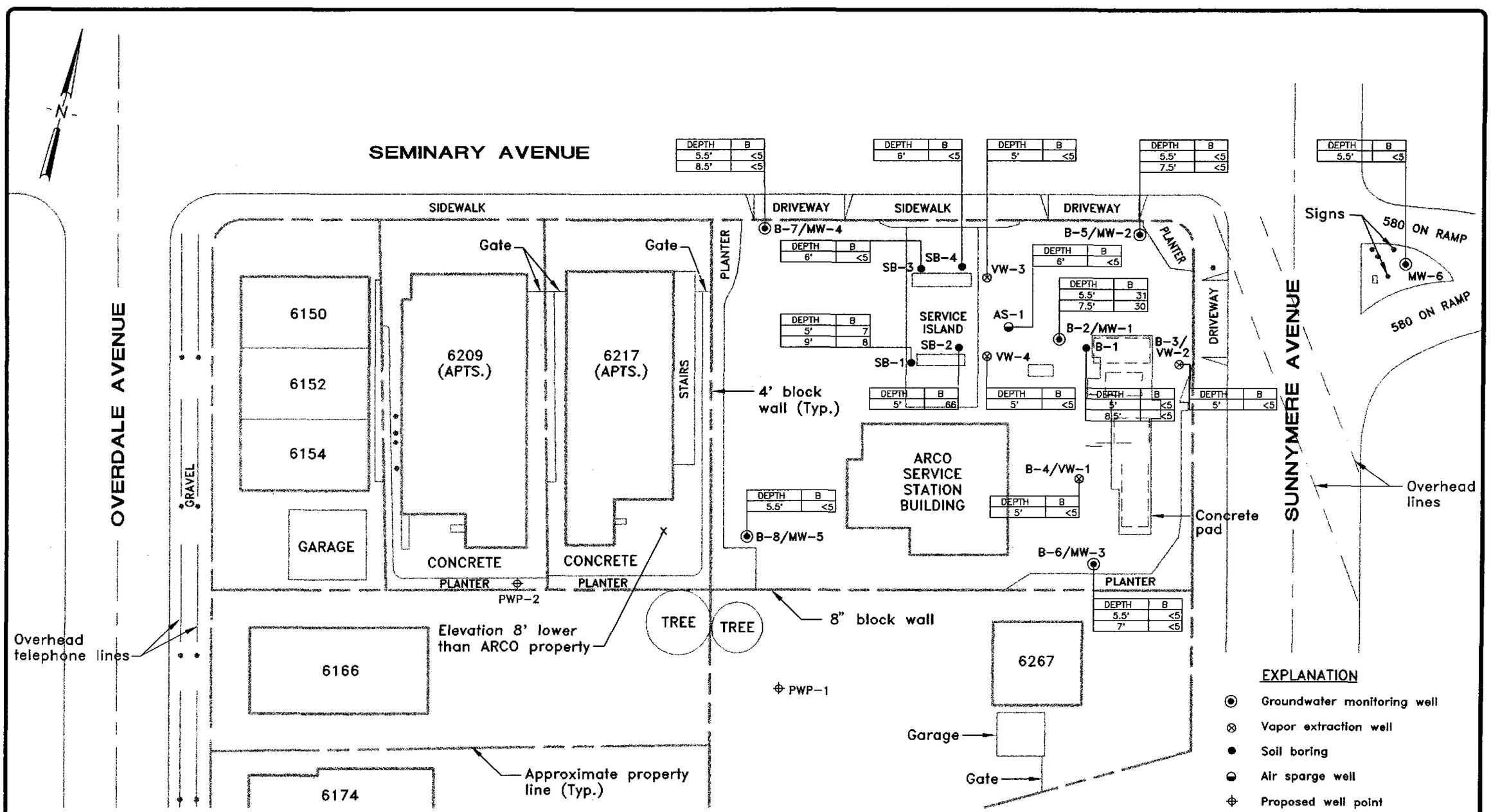
ARCO PRODUCTS COMPANY
SERVICE STATION 6002, 6235 SEMINARY AVE.
OAKLAND, CALIFORNIA

SITE PLAN

FIGURE NO. 1

PROJECT NO. 805-131.02

G:\805-131\SITEPLAN REV 0 08/31/95 12:49:24 KAJ DJ



Base map modified from GSI, 1994.

EMCON

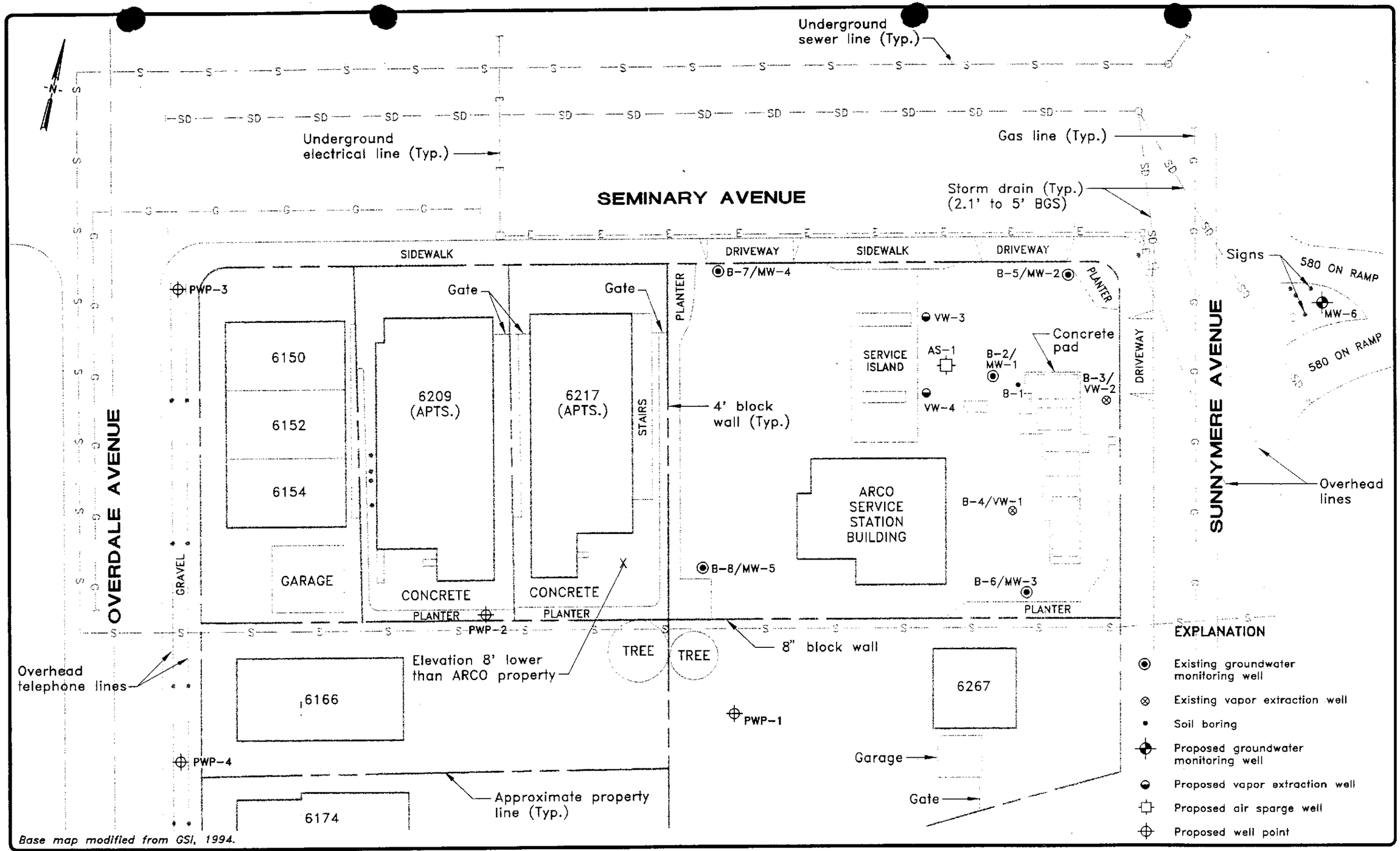
SCALE: 0 30 60 FEET

ARCO PRODUCTS COMPANY
SERVICE STATION 6002, 6235 SEMINARY AVE.
OAKLAND, CALIFORNIA

BENZENE CONCENTRATIONS IN SUBSURFACE SOIL (3 TO 9 FEET BGS)

FIGURE NO.
2
PROJECT NO.
805-131.07

G:\805-131\BENZ REV 0 03/26/96 09:14:38 DD DJ



Base map modified from GSI, 1994.

emcon

SCALE: 0 30 60 FEET

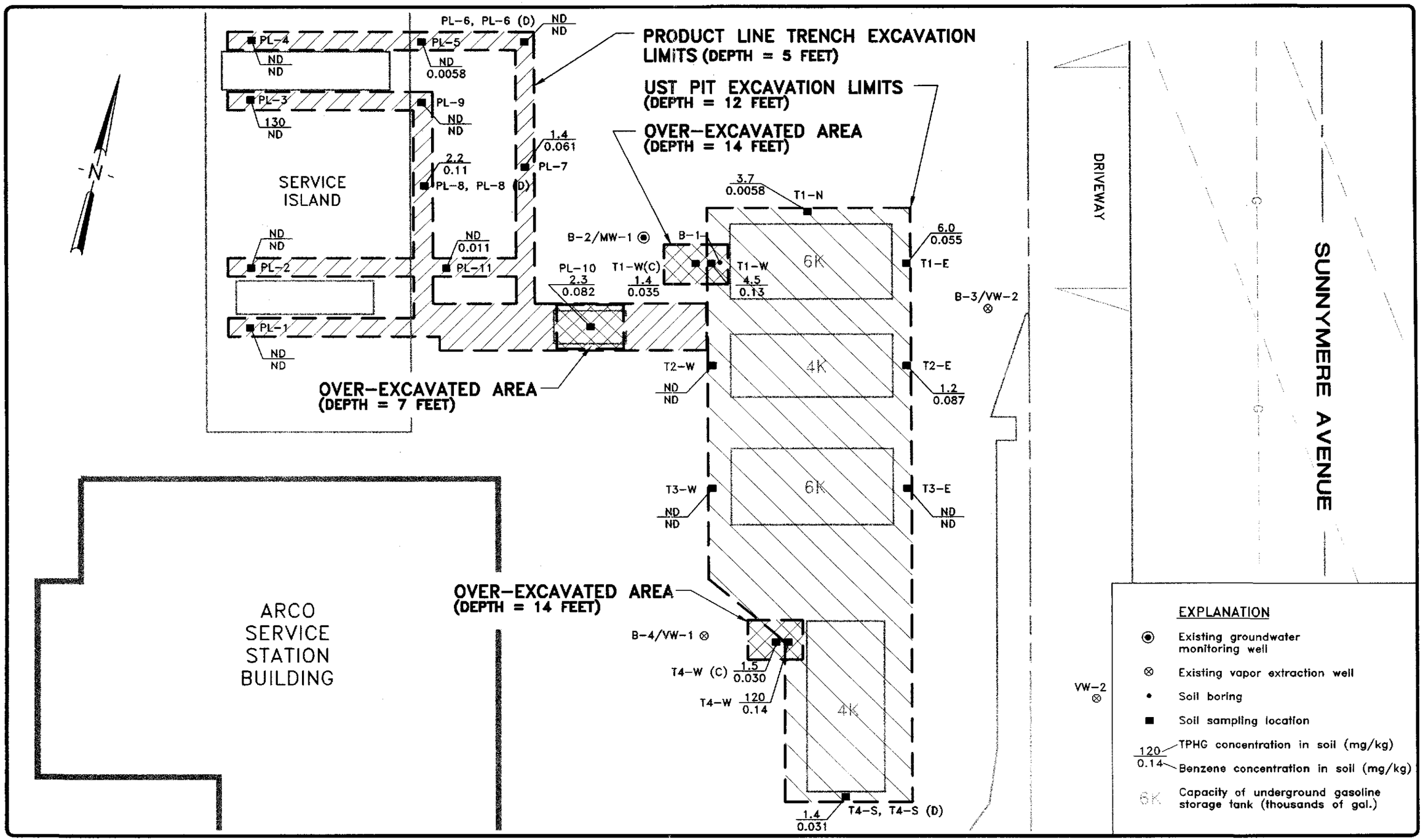
ARCO PRODUCTS COMPANY
SERVICE STATION 6002, 6235 SEMINARY AVE.
OAKLAND, CALIFORNIA

SITE PLAN

FIGURE NO. **1**

PROJECT NO. 805-131.02

:\805-131\SITEPLAN REV 0 08/11/95 12:49:24 KMM DJ



emcon

SCALE: 0 10 20 FEET

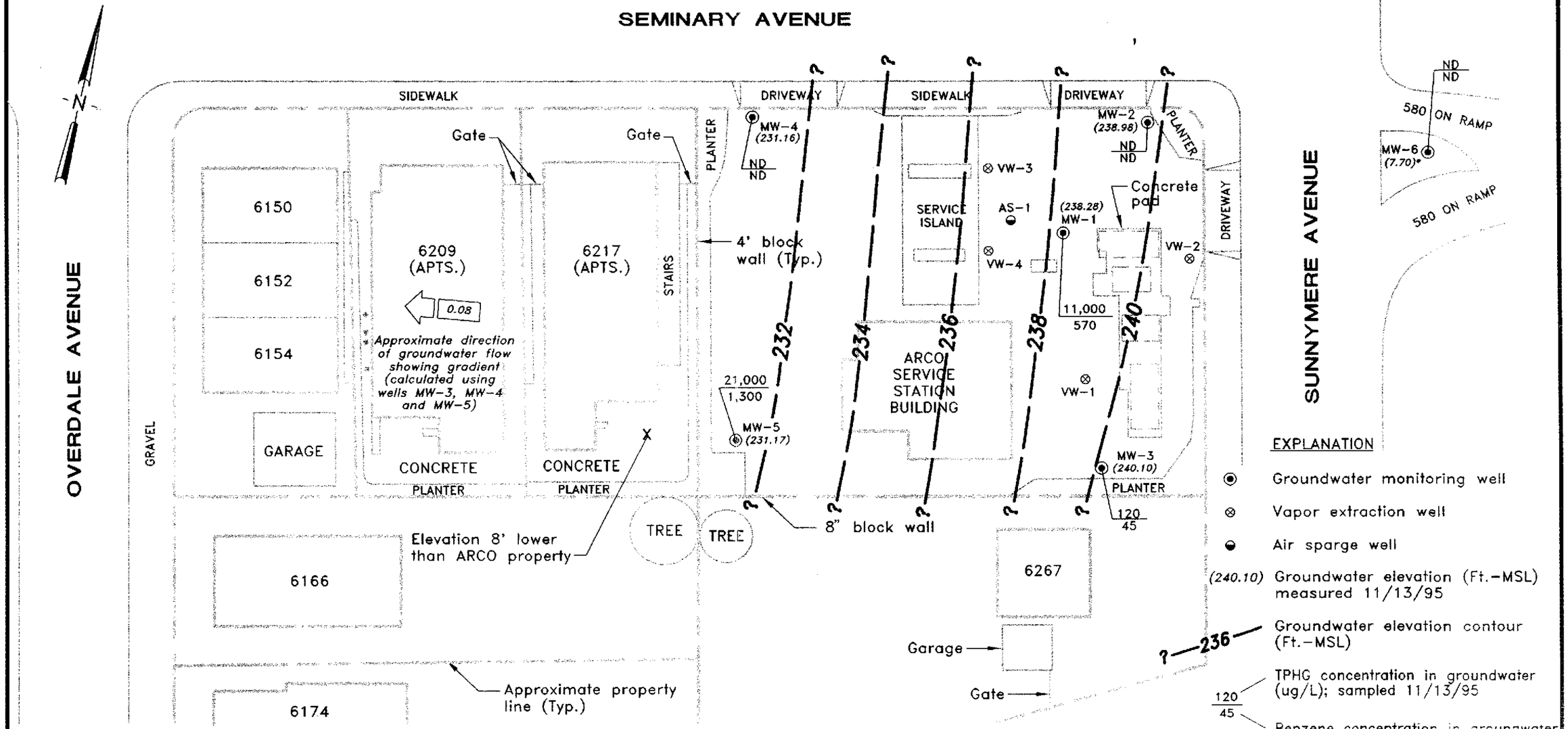
ARCO PRODUCTS COMPANY
SERVICE STATION 6002, 6235 SEMINARY AVE.
UNDERGROUND STORAGE TANK REMOVAL
OAKLAND, CALIFORNIA

TPHG AND BENZENE CONCENTRATIONS WITHIN EXCAVATION

FIGURE NO. 2

PROJECT NO. 805-131.007

G:\805-131\EXCTPHG REV 0 03/27/96 12:26:28 KMM DJ



Base map modified from GSI, 1994.

EMCON

SCALE: 0 30 60 FEET

ARCO PRODUCTS COMPANY
SERVICE STATION 6002, 6235 SEMINARY AVE.
QUARTERLY GROUNDWATER MONITORING
OAKLAND, CALIFORNIA

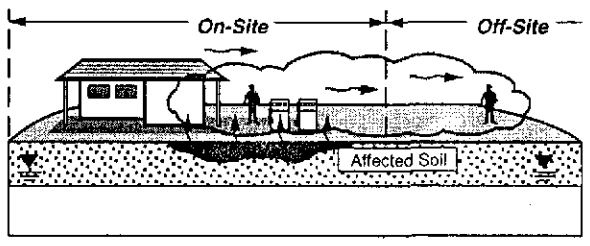
GROUNDWATER DATA
FOURTH QUARTER 1995

FIGURE NO.
2
PROJECT NO.
805-131.03

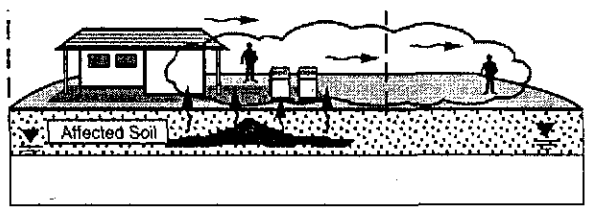
G:\805-131\GWCHEM REV 0 02/14/96 16:07:08 KAJ DJ

AIR EXPOSURE PATHWAYS

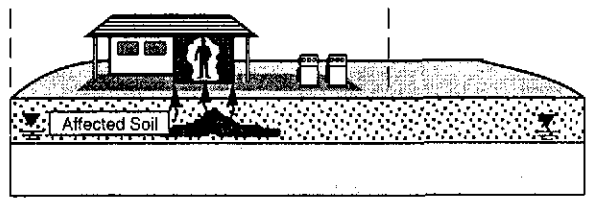
1) Surface Soils: Vapor Inhalation and Dust Ingestion *(I)*



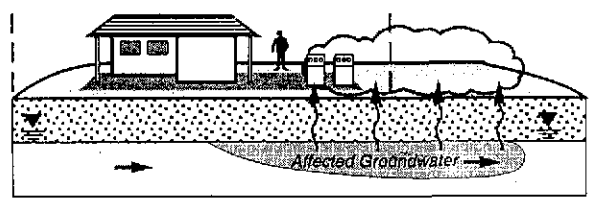
2) Subsurface Soils: Volatilization to Ambient Air *(I)*



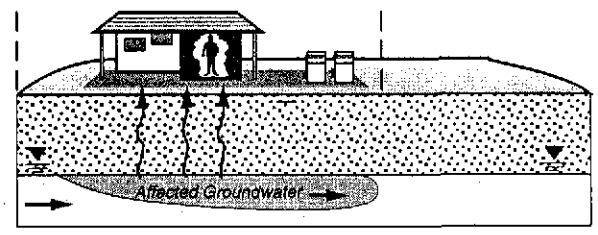
3) Subsurface Soils: Volatilization to Enclosed Space *(I)*



4) Groundwater: Volatilization to Ambient Air *(I)*

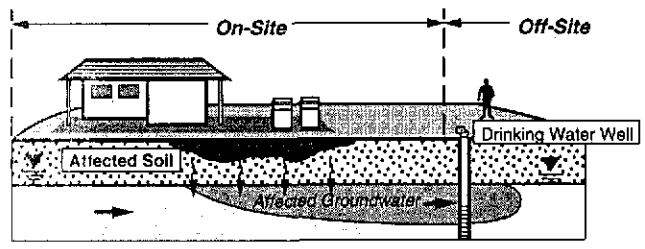


5) Groundwater: Volatilization to Enclosed Space *(I)*

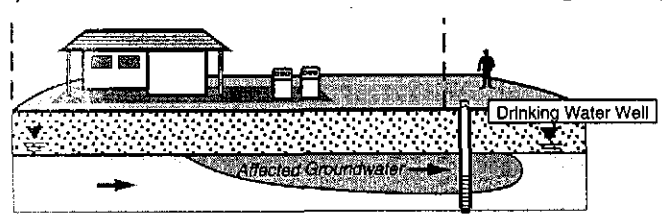


GROUNDWATER EXPOSURE PATHWAYS

6) Soil Leaching to Groundwater: Ingestion *(I)*

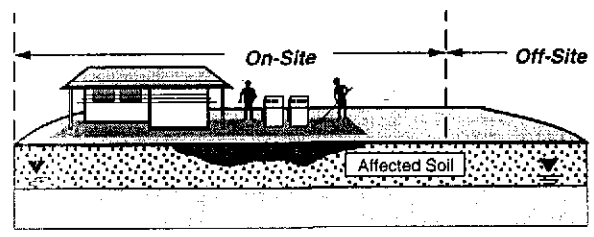


7) Dissolved or Free-Phase Groundwater Plume: Ingestion *(D / I)*



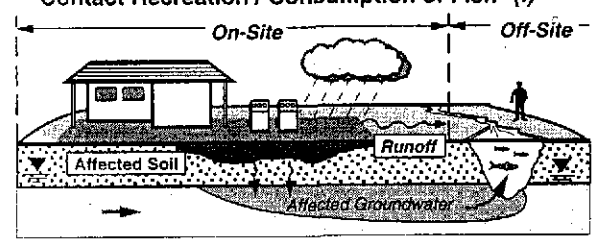
SOIL EXPOSURE PATHWAYS

8) Surface Soils or Sediments: Dermal Contact and/or Ingestion *(D)*

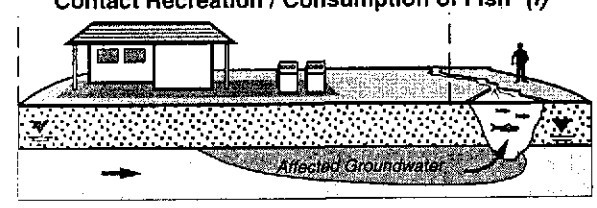


SURFACE WATER EXPOSURE PATHWAYS

9) Soil Leaching to Groundwater / Discharge to Surface Water: Contact Recreation / Consumption of Fish *(I)*



10) Groundwater Plume Discharge to Surface Water: Contact Recreation / Consumption of Fish *(I)*



NOTE: In Tier 1, point of exposure (POE) assumed to be on-site. In Tiers 2 and 3, POE can be on-site and/or off-site.

= Potential point of human exposure (i.e., on-site or off-site).

= Potential point of ecological exposure.

= Construction worker

(D) = Direct exposure pathway, i.e., POE = same medium and location as source.

(I) = Indirect exposure pathway, i.e., POE = different medium or location from source.

FIGURE 7. TYPICAL EXPOSURE PATHWAYS FOR TIER 1 AND TIER 2 EVALUATIONS