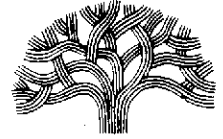


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ENVIRONMENTAL
PROTECTION

97 JUN 30 PM 4:01

CITY OF OAKLAND



ENVIRONMENTAL SERVICES • 1333 BROADWAY, SUITE 330A • OAKLAND, CALIFORNIA 94612

Public Works Agency

June 24, 1997

(510) 238-6688

FAX (510) 238-7286

TDD (510) 238-7644

Mr. Barney Chan
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

**Re: Workplan for Closure-In-Place of USTs, Municipal Service Center,
Oakland, California**

Dear Mr. Chan:

As discussed in our telephone conversation of June 5, 1997, this letter presents a workplan for the closure-in-place of two underground storage tanks (USTs) at the City of Oakland's Municipal Service Center (MSC), 7101 Edgewater Drive, Oakland, California.

The USTs, located near the southeast corner of MSC Building 5 (Figure 1), consist of UST-10, a 1000 gallon waste oil tank and UST-11, a 500 gallon lubrication oil tank. The USTs have not been in service for some period of time and are believed to be empty. As shown on Figures 2 and 3, two aboveground storage tanks (ASTs), currently used for waste oil and lubrication oil, were installed immediately above the USTs. Because removal of the USTs would require removal of the ASTs at substantial cost to the City and inconvenience to the operations at the MSC, the City requests approval from your office for closure-in-place in accordance with the requirements set forth in the California Code of Regulations, Title 23, Chapter 16. The scope of work presented below complies with these requirements.

SCOPE OF WORK

Preliminary Activities

- Submit amended Tank Closure Plan to Alameda County Department of Environmental Health (ACDEH) to include approval for closure-in-place;
- Modify existing tank closure permit for the MSC to include UST-10 and UST 11.

Field Activities

- Remove all fill rings and/or other measures to achieve unobstructed access to the tank;
- Remove all residual liquids, solids, or sludge and dispose of properly;
- Power wash tank, remove rinsate for proper disposal, and inert with dry ice to ensure lower explosive limit is met and oxygen level is less than 10 percent;
- Remove all piping associated with the tank to the extent possible without damaging the aboveground storage tank and appurtenances. Empty remaining piping of all contents and cap;
- Completely fill the tanks with an inert slurry concrete mix;
- Drill four soil borings at locations shown on attached Figure 2. Two borings will be at the south end of the tanks and two boring will be as close to the north end of the tanks as possible given the access constraints posed by the building and the existing aboveground storage tank. The borings will be drilled to a depth of either 2 feet below the bottom of the tanks or until groundwater is encountered, whichever is first. Soil samples will be collected at the bottom of each borehole.
- Collect one groundwater sample from one of the boreholes to the west of the tanks because this is the direction of groundwater flow;
- Submit the soil and groundwater samples to a state-certified laboratory for chemical analysis of total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tert-butyl ether (MTBE), volatile organic compounds (EPA Test Method 8010), cadmium, chromium, lead, zinc, and nickel. + 8270 semivolatiles etc
- Replace concrete in the tank ring and soil boreholes with 4000 psi, six sack mix.

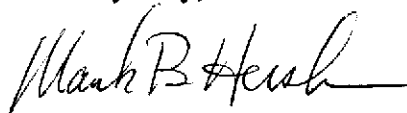
Reporting

The City will submit a report to ACDEH describing all site activities associated with the closure-in-place of USTs -10 and -11. The report will be included as part of the larger UST removal report that will be prepared for all the recent UST removal activities at the MSC.

The City would like to proceed with the closure-in-place in the near future. As such, your timely approval of this workplan is appreciated.

Please call me at 238-7695, or Andrew Clark-Clough at 238-6361, if you have any questions or require additional information.

Yours very truly,



Mark B. Hersh, R.G. 6661
Environmental Program Specialist

Attachments: Figure 1. Site Plan
Figure 2. Tank Location Plan
Figure 3. Tank Cross-Section A - A'

cc: Andrew Clark-Clough
Jeff Krohn

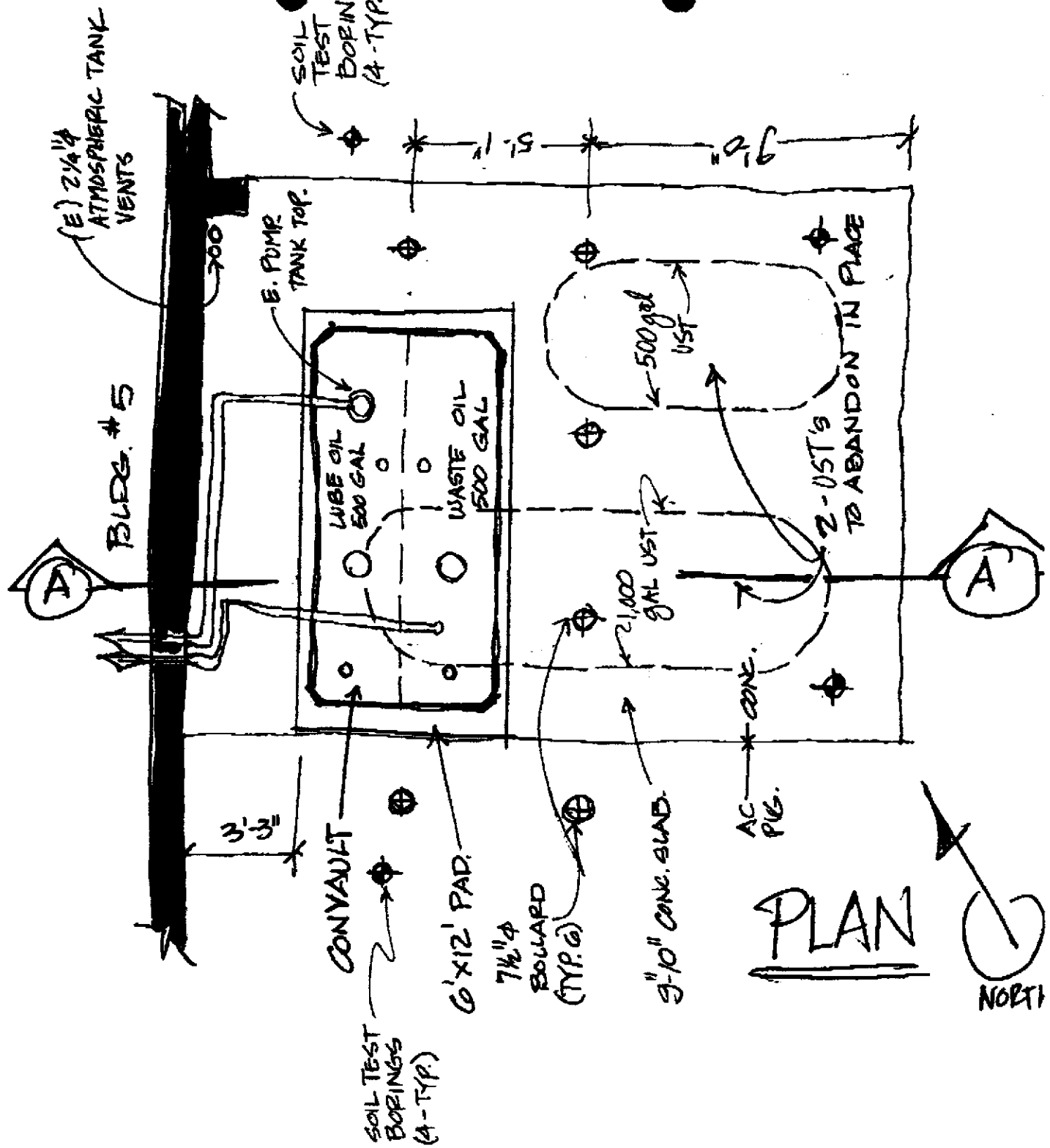
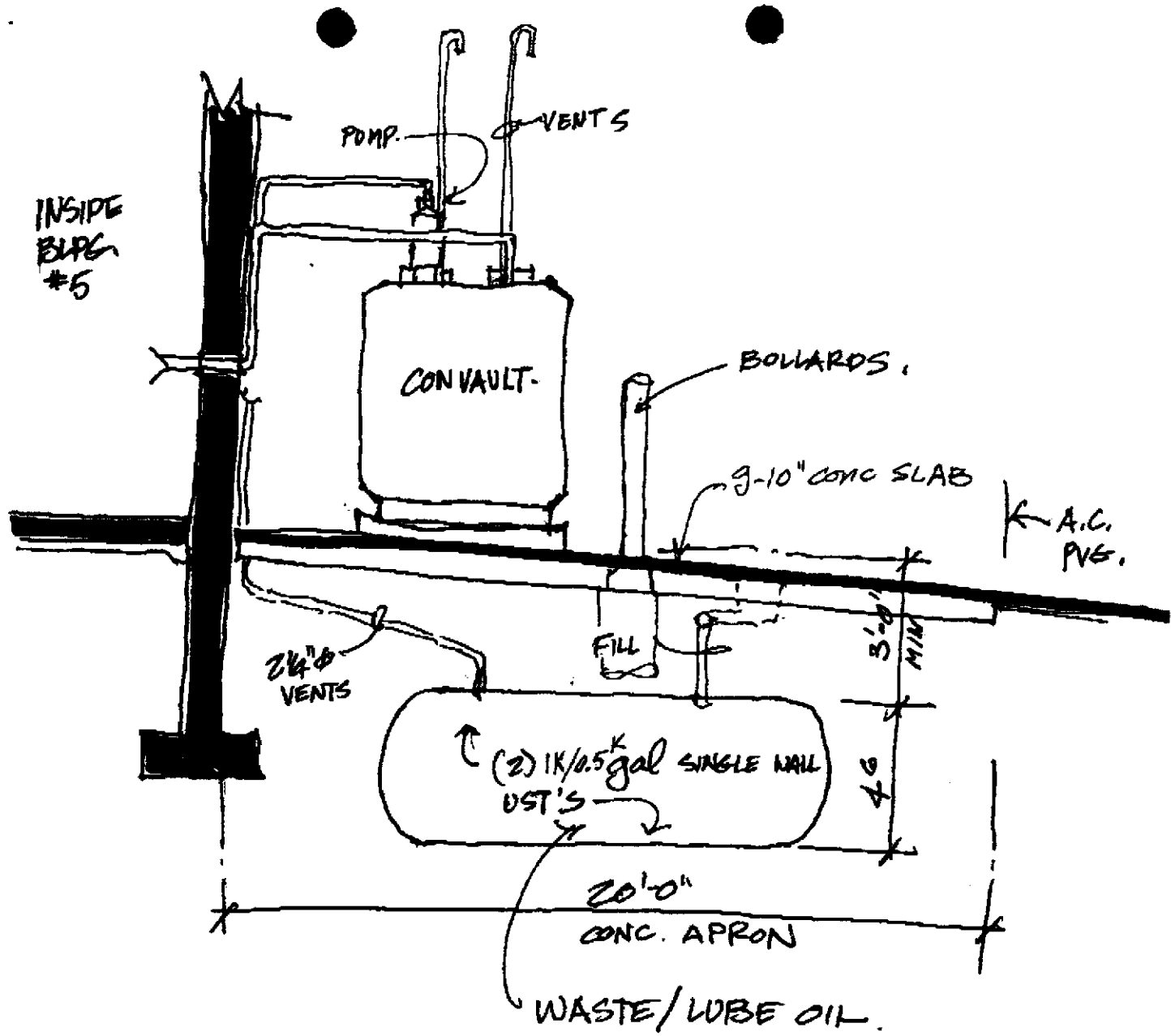


FIGURE 2.



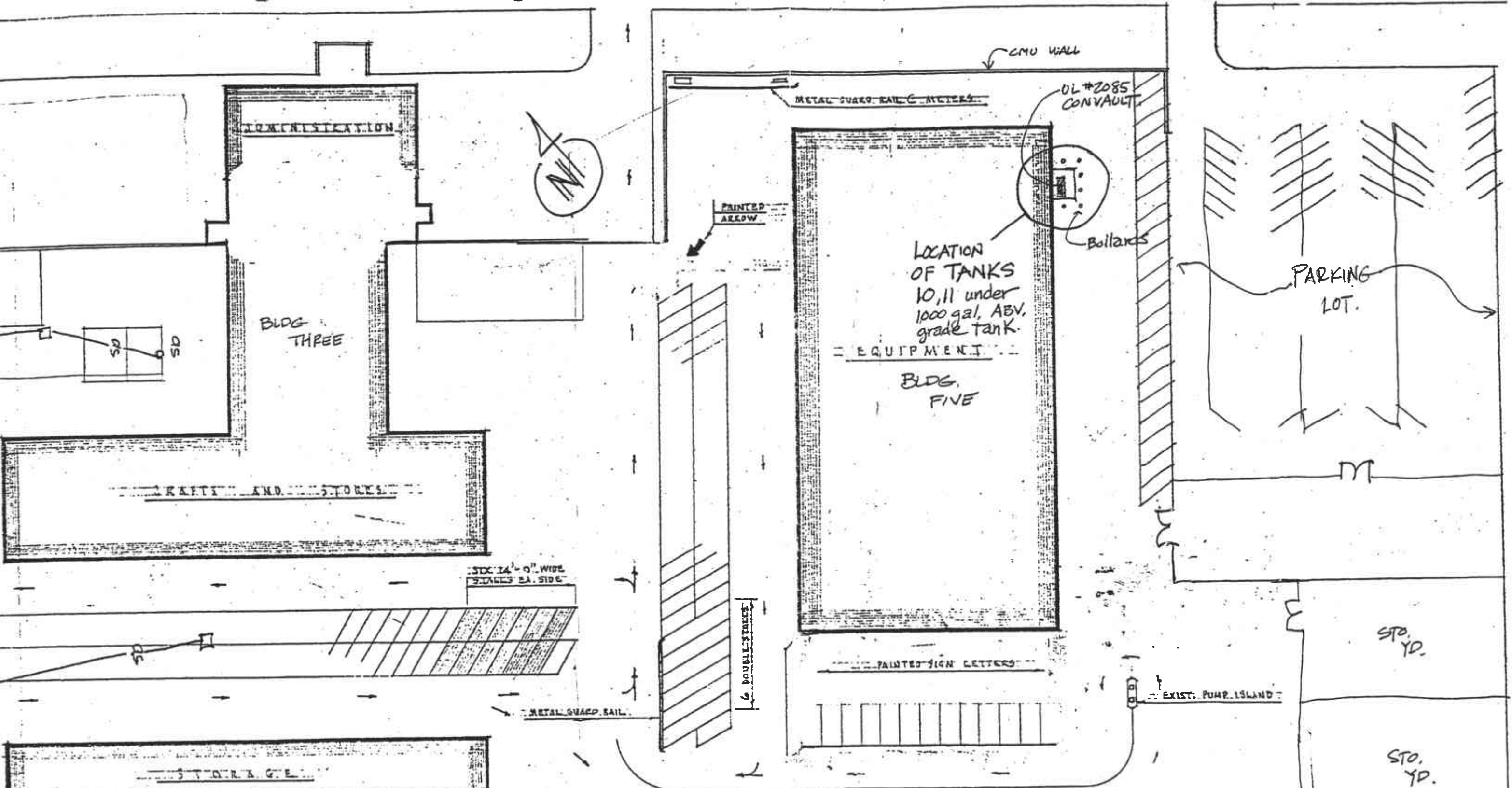
SECTION A-A

(REVISED 6/19)

FIGURE 3.

EDGE WATER

DRIVE



PLAN - (FIGURE I)
 MSC. TANKS 10, 11. - [(2) 500 gal. waste/
 LUBE OIL] ABANDON - IN - PLACE.
 TANK REMOVAL PERMIT. 7101 EDGE WATER DR.
 CITY OF OAKLAND