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OK 7/3/97

ENVIRONMENTAL SERVICES

Public Works Agency

July 3, 1997

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

ACCEPTED

Underground Storage Tank Closure Permit Application
Alameda County Division of Hazardous Materials
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction/abatement.
One copy of the accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.
Any changes or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspections Department to determine if such changes meet the requirements of State and local laws.
Notify this Department at least 72 hours prior to the following required inspections:

- Closure in place
- Removal of Tanks and Piping
- Sampling
- Final Inspection

issuance of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

***THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS:**



OAKLAND, CALIFORNIA 94612
(510) 238-6688
FAX (510) 238-7286
D (510) 238-7644

Contact Specialist

Re: Workplan for Closure-In-Place of USTs, Municipal Service Center, Oakland, California (94407)

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, are located immediately above the USTs. Because of the proximity to the building, removal of the USTs may jeopardize the structural integrity of the building even if shoring is used in the excavation. Therefore, 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.
- Replace concrete in the tank ring and soil boreholes with 4000 psi, six sack mix.

• *Properly close all underground piping*

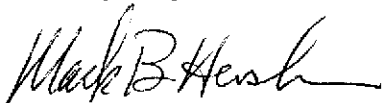
Reporting

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,

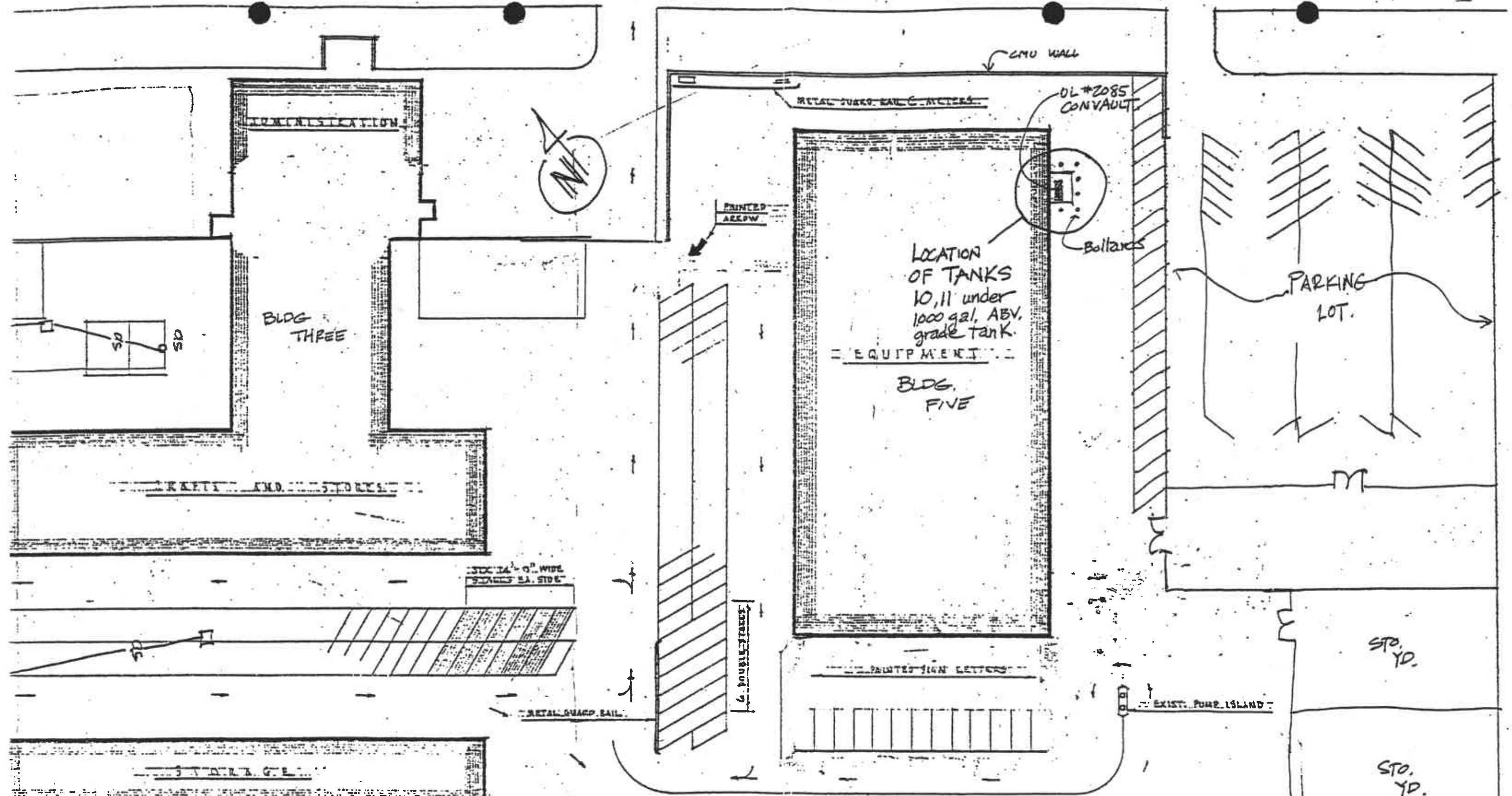


Mark B. Hersh, R.G. 6661
Environmental Program Specialist

*add TOG (all)
+ semi volatility
8270
Sample w/
highest TOG*

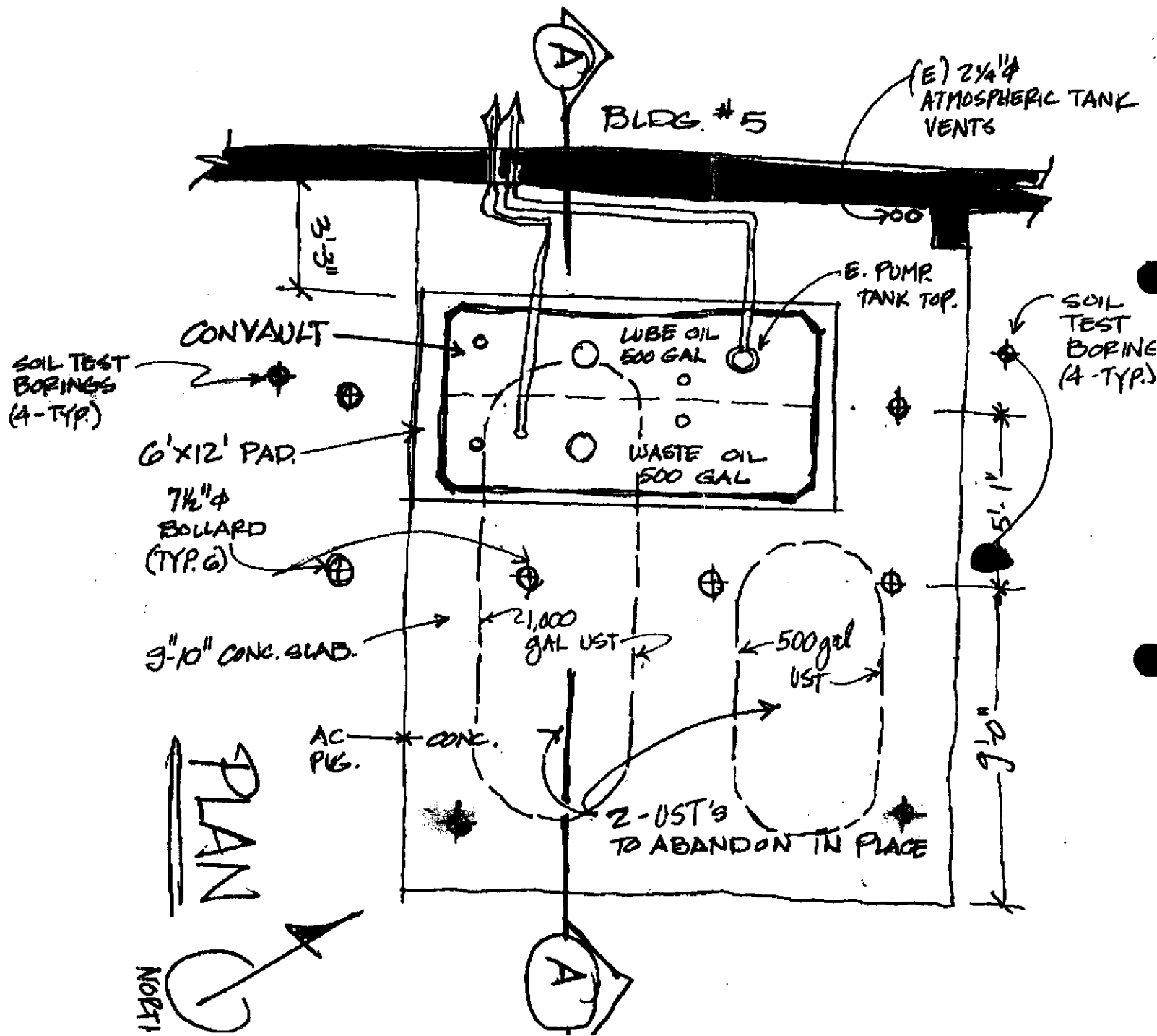
Attachments: Figure 1. Site Plan
Figure 2. Tank Location Plan
Figure 3. Tank Cross-Section A - A'

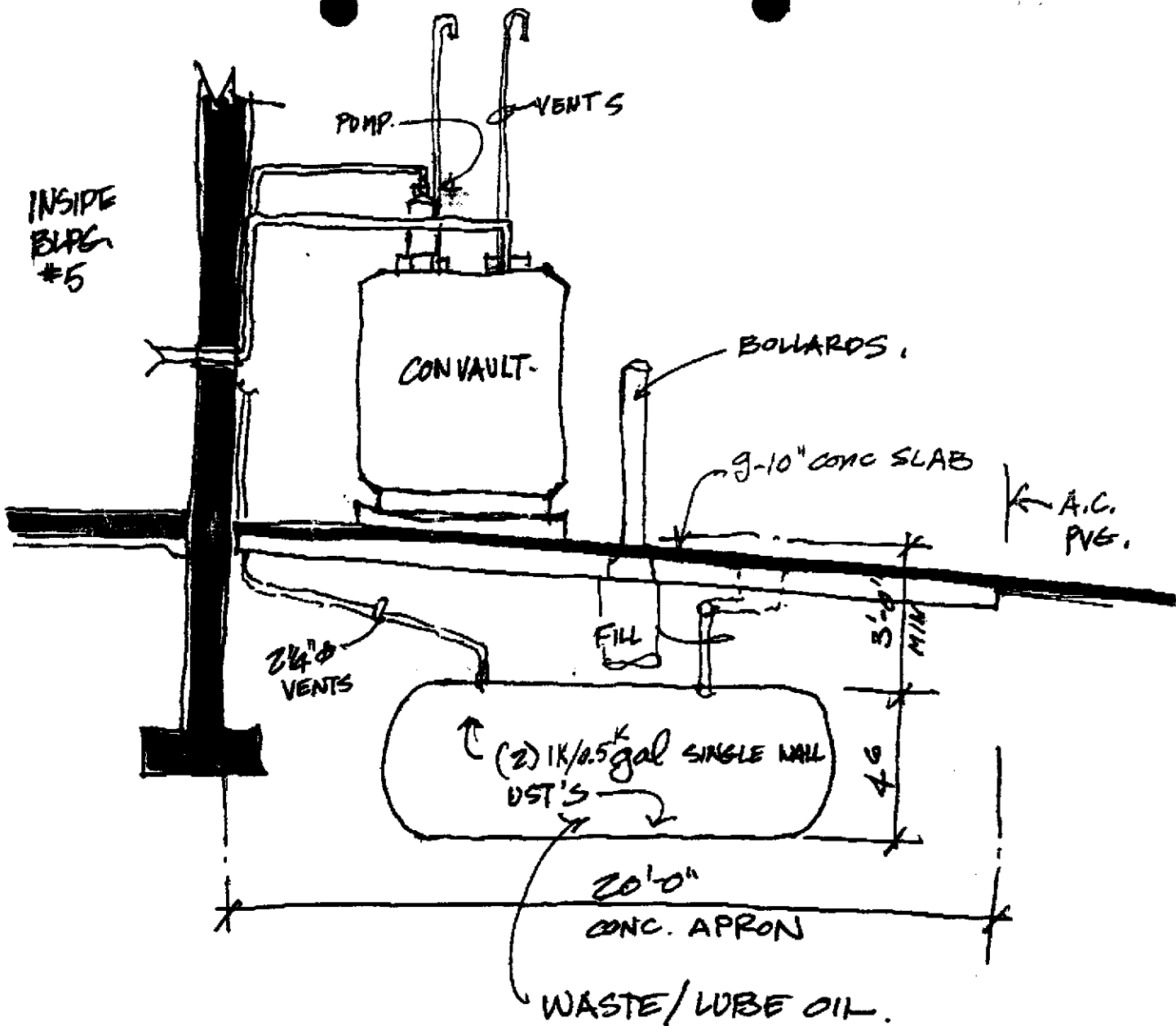
cc: Andrew Clark-Clough
Jeff Krohn



PLAN - (FIGURE I) ... 1-1000 Gall
 MSC. TANKS 10, 11. - [(2) 500 gal. waste/
 LUBE OIL] ABANDON - IN - PLACE.
 TANK REMOVAL PERMIT. 7101 EDGE WATER DR.

FIGURE 2.





SECTION A-A

(REVISED 6/19)

ENVIRONMENTAL
PROTECTION

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FIGURE 3.