

BROWN AND CALDWELL



CONSULTING ENGINEERS

May 23, 1985

Rec'd 5-24-85  
PCM

Mr. Erwin Koehler  
Department of Health Services  
Toxic Substances Control Division  
North Coast California Section  
2151 Berkeley Way, Annex 7  
Berkeley, California 94704-9980

11-39-1928-08/16

Subject: Western Forge & Flange Company  
Albany Site Project

Dear Mr. Koehler:

On May 10, 1985, we transmitted on behalf of Western Forge & Flange Company, the correction documentation report for the Western Forge & Flange Company Albany, California, site. Four remaining activities were identified on page 11 of the report. This letter is an update on those activities and can be considered a supplement to the report.

#### Oil Drums

The oil fraction has been removed from the drums containing solids, water, and skimmings from the oil-water separator. The oil fraction was hauled off site by an oil recycler. The remaining oily water was recycled through the separator. Drum solids were combined with soil excavated from the 14,000-pound hammer area near sample location WFF 12 shown on Figure 2. These solids will be hauled off to an approved disposal site.

#### Steam Line Vent

The second roof steam line vent has been connected to the steam trap on the roof. The trap is designed to aid in steam condensation, thereby removing oil from the steam before steam discharges to the atmosphere. Oily condensate from the trap drains directly to the oil-water separator.

Mr. Erwin Koehler  
May 23, 1985  
Page six

Please contact Mr. Brian Bracken at Brown and Caldwell or Mr. Vernon Mallinson at Western Forge & Flange Company if you have any questions regarding this report.

Very truly yours,

BROWN AND CALDWELL



Brian D. Bracken  
Project Manager

BDB:jrs  
Enclosures (2)

cc/enc: Mr. William Cosden, Deputy District Attorney,  
Alameda County  
Mr. Tom Kasnick, California Department of Fish and Game  
Mr. Vernon Mallinson, Western Forge & Flange Company  
Mr. Philip Mellen, Regional Water Quality Control Board  
Mr. Mark Ransom, Southern Pacific Transportation Company  
Ms. Nancy Symons, Miller, Morton, Caillat & Nevis  
Mr. Max Weinryb, City of Albany  
Mr. Peter Zaklan, Western Forge & Flange Company

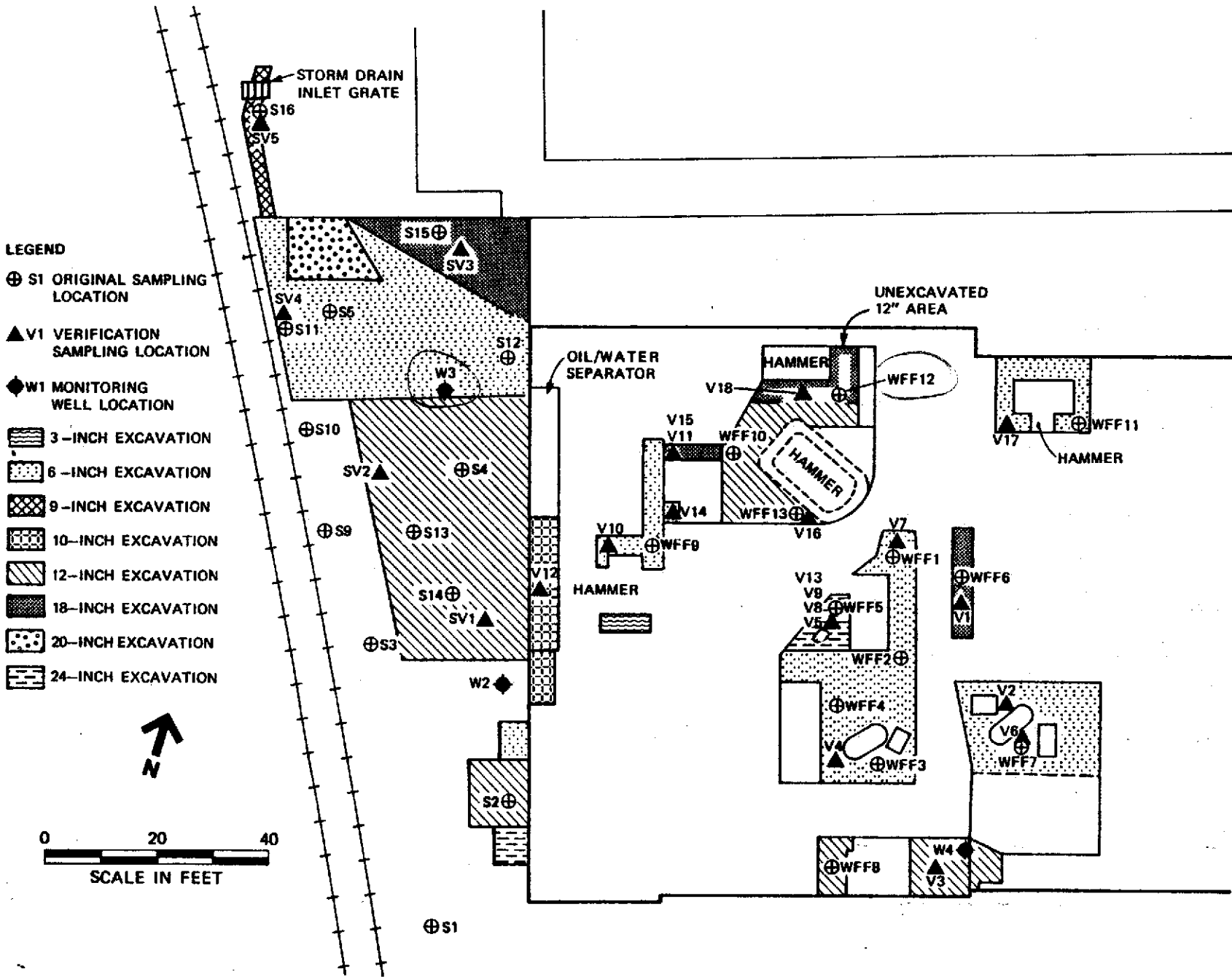


Figure 2 Sampling Locations

Mr. Erwin Koehler  
May 23, 1985  
Page three

### Hammer Soil Excavation

Soils were excavated to a 12-inch depth around the base of the 14,000-pound hammer (near WFF 12 on Figure 2). Verification sample V18 (location shown on Figure 2) was taken on May 10, 1985, at a 12- to 18-inch depth. The sample was analyzed for copper, lead, nickel, and oil and grease. Attached is the analytical report. All analyses show contaminant concentrations below the cleanup levels established for the project except for nickel. The nickel concentration of 1,000 mg/kg is at the cleanup level of one-half total threshold limit concentrations in 22 CAC 66699.

### Groundwater Monitoring Results

As requested by the Regional Water Quality Control Board, a groundwater sample was collected from well W3 on May 6, 1985, and analyzed for oil and grease, copper, lead, nickel, and zinc. Results of this analysis along with results of previous analyses of well W3 and other site wells are shown in Table 2 (the analytical report for well W3 is attached). We conclude that the concentrations of the constituents analyzed for the Well W3 groundwater sample collected on May 6, 1985, are not significantly different than those concentrations previously found in well W3.

Water table elevations measured in monitoring wells W2, W3, and W4 on May 23, 1985, are contoured on Figure 3. The local groundwater gradient is approximately 0.005 foot per foot to the west-southwest, toward San Francisco Bay.

### Remaining Activities

The following correction activities remain:

1. Removal of drum solids and soils excavated from around the 14,000-hammer to an approved disposal site.
2. Collection and analysis of an additional groundwater sample from well W3 at the end of the dry season.
3. Development and execution of a maintenance program for the facility to ensure accumulated waste oil and other hazardous materials are removed from the site in a timely manner according to the regulations.

*include  
PH*

*V. good*

**Table 2 Concentration of Metals and Oil and Grease Detected in Groundwater Samples, mg/l**

Constituents	Date sampled								
	5/23/84		7/9/84			8/24/84			5/6/85
	W2	W3	W2	W3	W4	W2	W3	W4	W3
Chromium, trivalent	<0.02	<0.02	-	-	-	-	-	-	-
Copper	<0.01	<0.01	-	-	0.04	<0.01	<0.01	<0.01	0.02
Lead	<0.1	0.5	-	-	<0.1	<0.1	0.2	<0.1	<0.1
Nickel	0.03	0.42	-	-	0.12	0.04	0.17	0.07	0.23
Zinc	0.03	0.03	-	-	0.32	0.01	0.02	0.01	<0.01
Oil and grease	-	-	7	<5	7	<5.0	<5.0	5.4	4.6

Note: Dash (-) indicates not analyzed.

BROWN AND CALDWELL

P.O. BOX 8045 WALKNOT CREEK, CA 94586-1220 • (415) 937-9010 • TELEX 33-6490 • OFFICE AT 3480 BUSKIRK AVENUE PLEASANT HILL, 94523

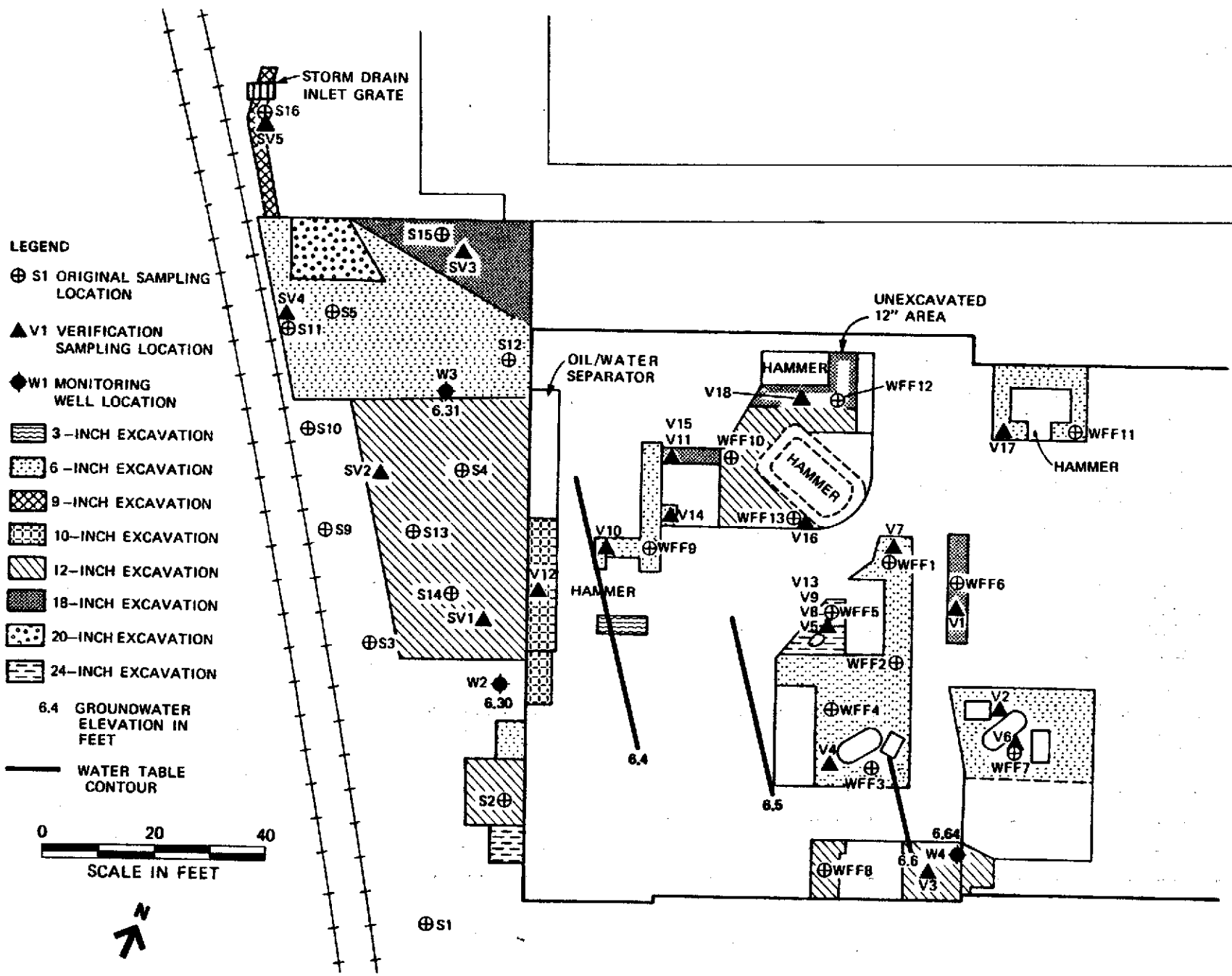
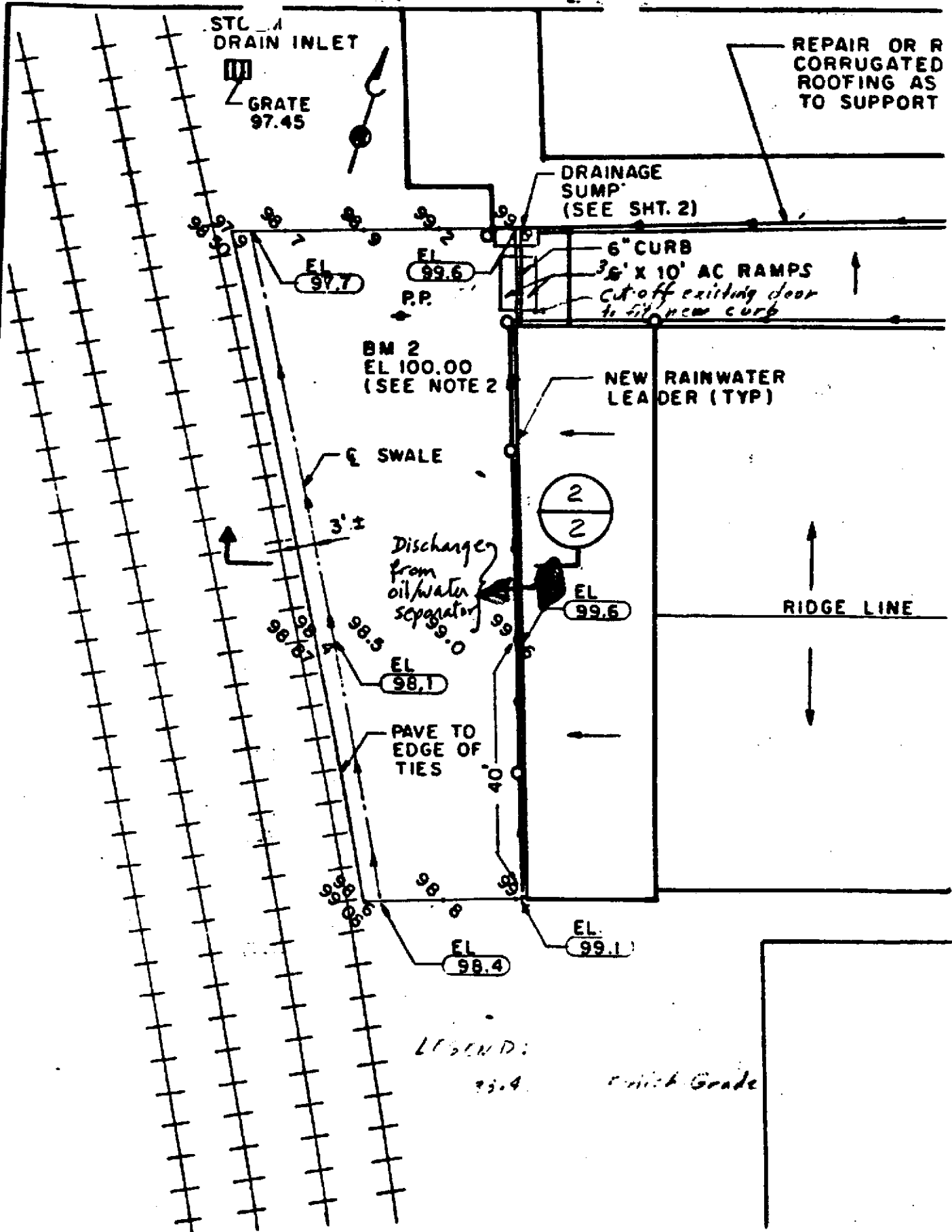


Figure 3 Water Table Configuration, May 23, 1985



LEGEND:  
 99.4      *cut-off Grade*

**BC** BROWN AND CALDWELL  
 CONSULTING ENGINEERS

DRAWN FRP DESIGNED \_\_\_\_\_  
 CHECKED \_\_\_\_\_ APPROVED \_\_\_\_\_

FILE 1929-08  
 DATE \_\_\_\_\_

FORM RAIN INLET RATE 97.45

EXCAVATION AS DIRECTED

PROVIDE A 6 FT WIDE BY 10 FT LENGTH AGGREGATE BASE PAD BY 1 FT DEEP

GUTTER ALONG SOUTH TO BE INSTALLED BY CONVEYED TO CLEV

DRAINAGE SUMP (SEE BELOW & NOTE 4)

PROVIDE CONC CURB & GUTTER (SEE NOTE 3)

LEADER TO ROOF BELOW

EL 97.7

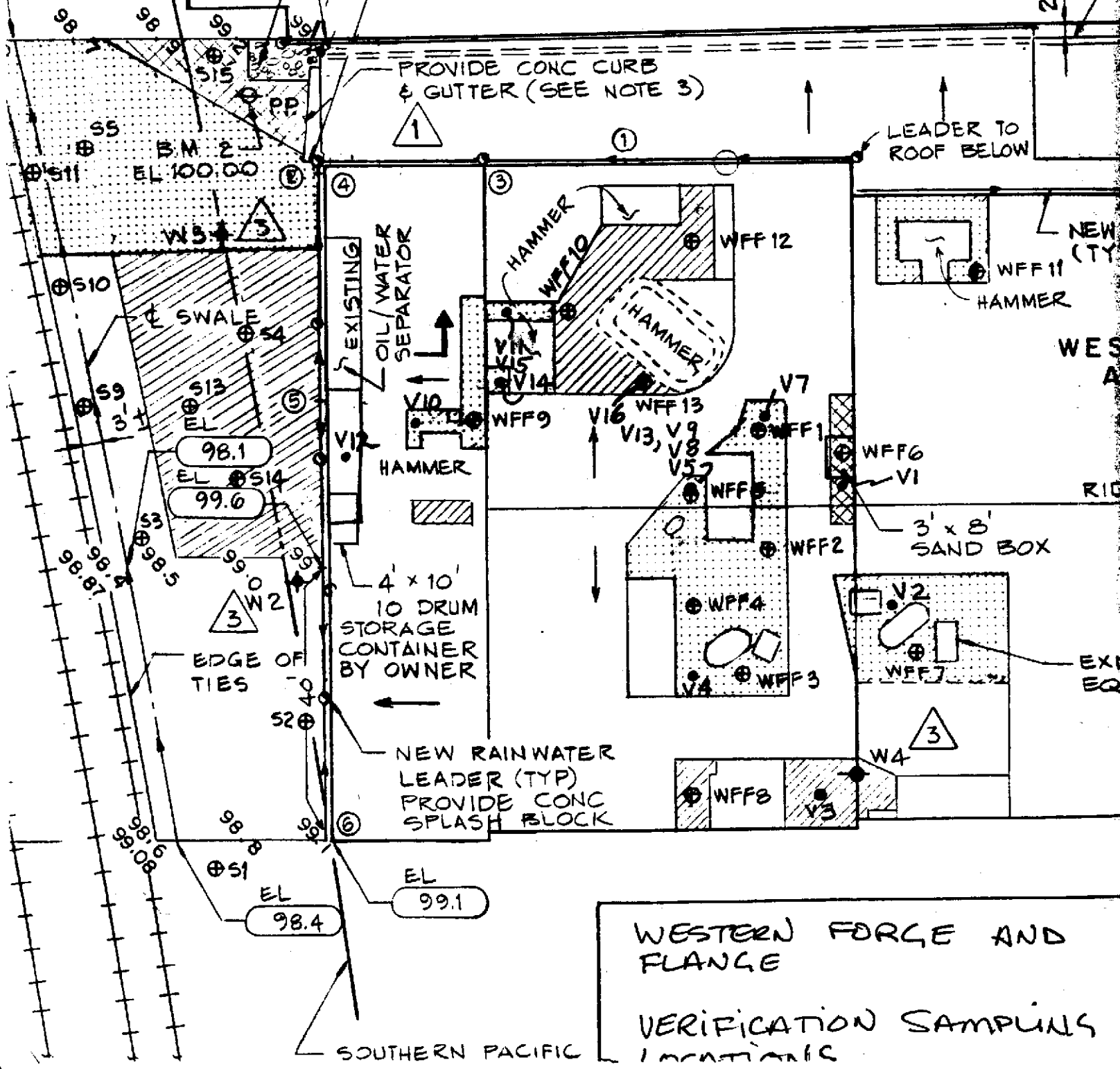
EL 99.6

B.M. 2 EL 100.00

EL 98.1  
EL 99.6

EL 98.4

EL 99.1



4' x 10' 10 DRUM STORAGE CONTAINER BY OWNER

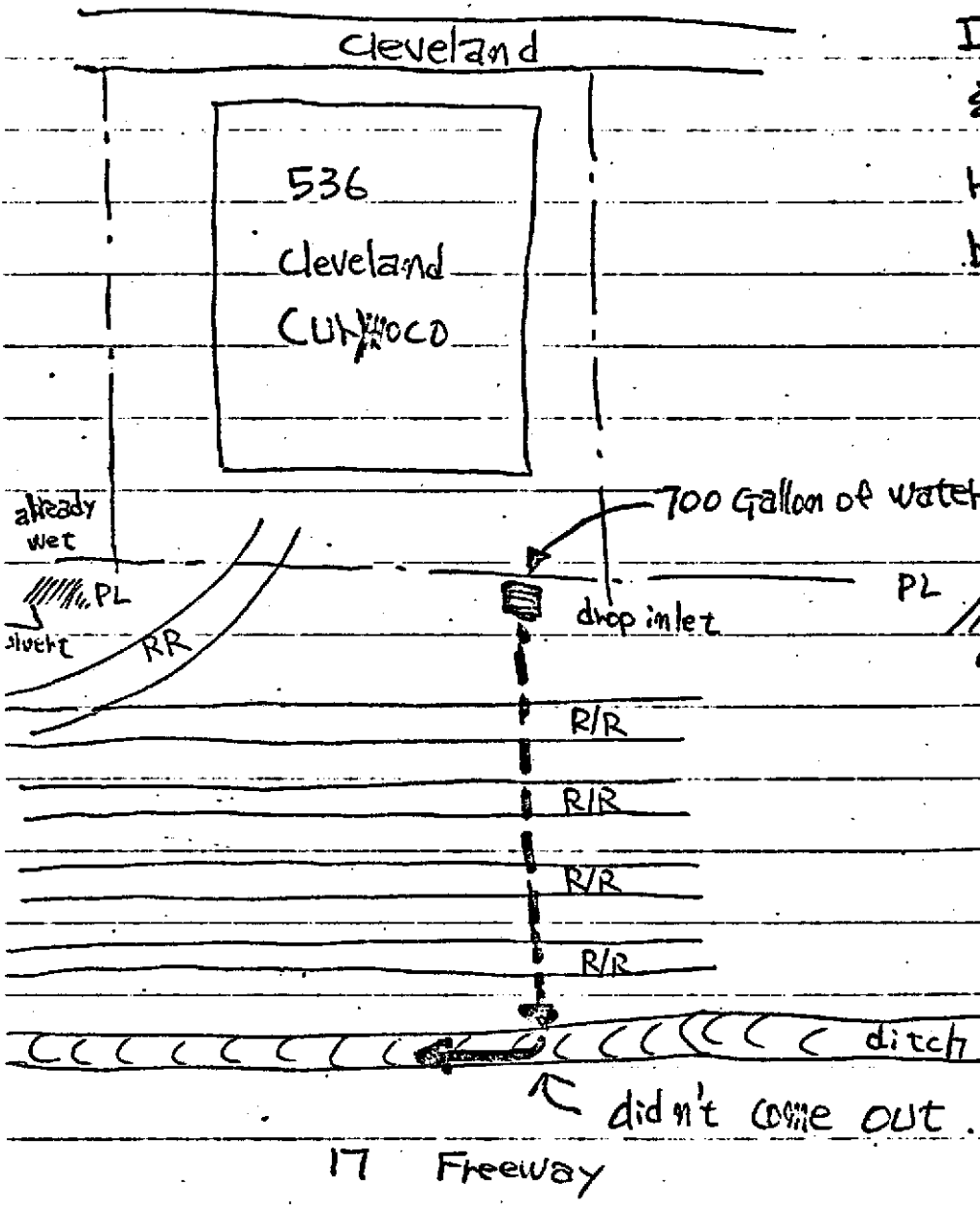
NEW RAINWATER LEADER (TYP) PROVIDE CONC SPLASH BLOCK

WESTERN FORCE AND FLANGE

VERIFICATION SAMPLING LOCATIONS



9-19-83



I checked Cerrito Creek & bay (east side of Hoffman Blvd 17) but no sign of water.

