

PDR

WM-20



PIONEER NUCLEAR, INC.
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STEVEN L. LANGE
Environmental Coordinator

February 29, 1980

U.S. Nuclear Regulatory Commission
7915 Eastern Avenue
Mail Stop 483 SS
Silver Spring, Maryland 20910

Attn: Ms. Kathy Hamill

Dear Kathy:

The materials in response to Question 10 of your letter dated December 21, 1979 are enclosed. In addition, the photographs referenced in response to Question 16 are enclosed.

If you have further questions concerning our proposed project, please contact me.

Sincerely yours,

Steven L. Lange

SLL/dlw

Enclosure



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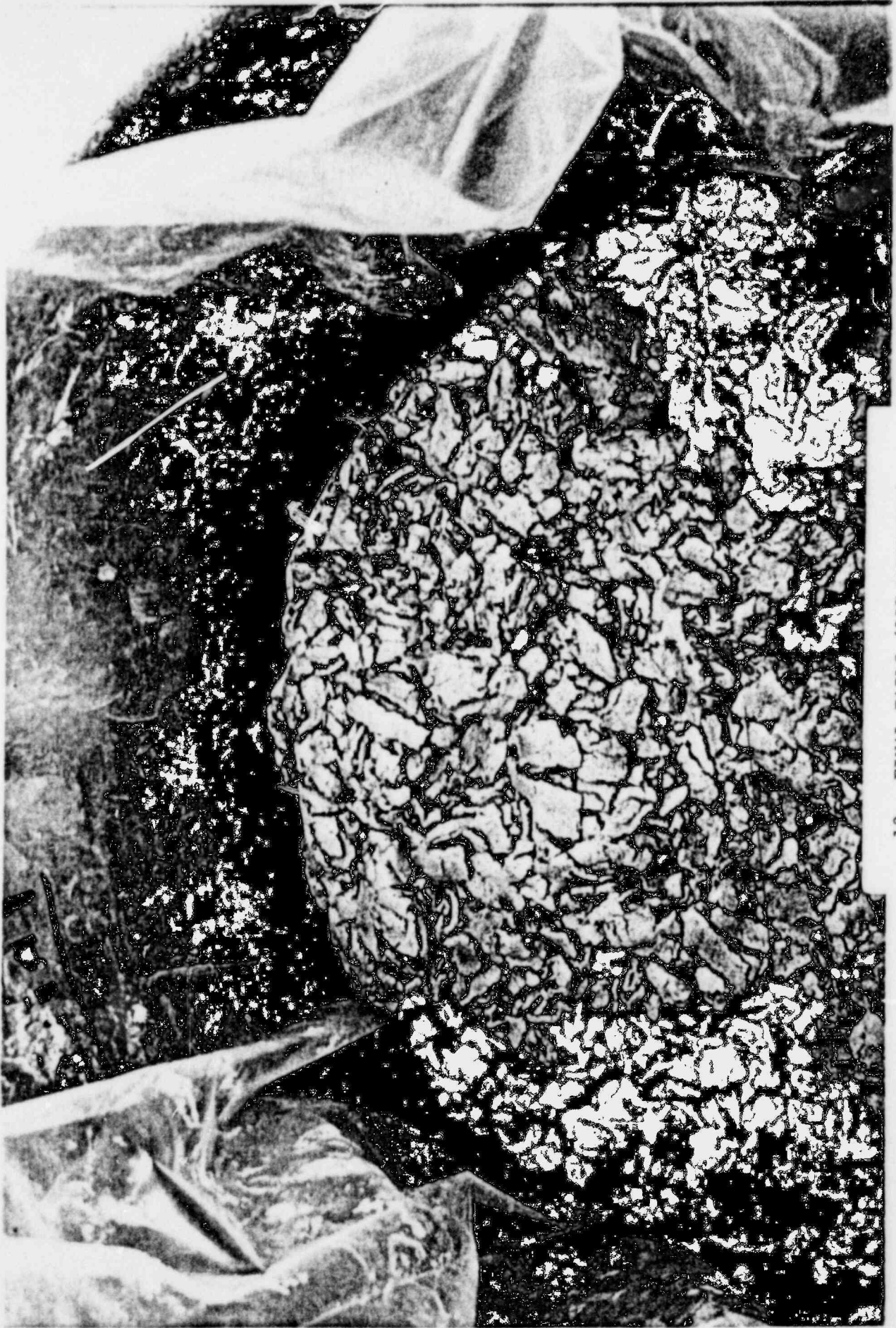
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10. FINAL TAILINGS DISCHARGE
FROM WASH FILTER



12. FINAL TAILS (25% MOISTURE)
Shown in a standard 55 gal drum

Question 10. Please provide a 2 foot contour interval map and cross sections outside the site which illustrate the 100-year flood boundary.

Response

A 2 foot contour interval map with the limits of the PMF shaded is shown in Figure 10-1. The 100-year flood boundary is denoted by the single solid line inside the shaded area. The locations of all surface profiles used in the determination of the PMF and 100-year floods are shown in Figure 10-2 and 10-3. The predicted flood elevations at the various profile locations were calculated utilizing the HEC-2 computer model developed by the U.S. Army Corps of Engineers. The results of these calculations are shown in Tables 10-1 to 10-4.

Table 10-1 Flood Elevations predicted by HEC-2 for Nicholas Wash

<u>Profile #</u>	<u>100-year flood (ft above m.s.l.)</u>	<u>PMF (ft above m.s.l.)</u>
①	5557.6	5564.6
②	5577.8	5587.3
③	5597.6	5603.9
④	5617.6	5622.8
⑤	5639.5	5644.4
⑥	5677.6	5683.7
⑦	5737.6	5742.7
⑧	5757.6	5765.0

Table 10-2 Flood Elevations predicted by HEC-2 for East Branch Nicholas Wash

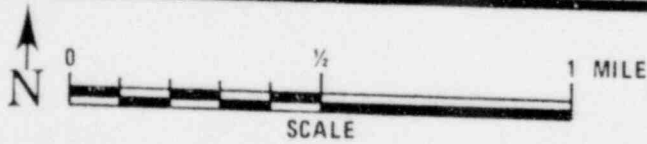
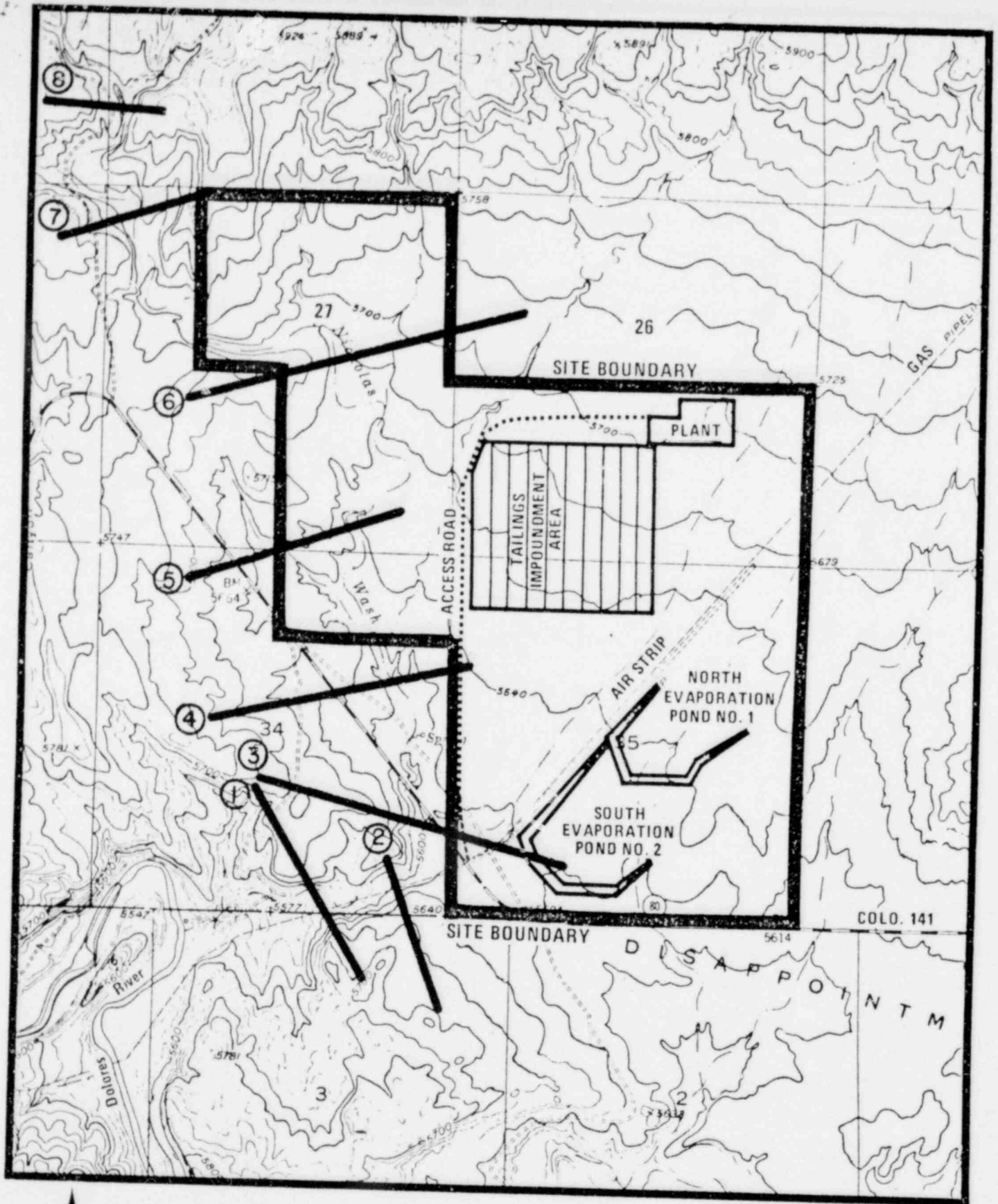
<u>Profile #</u>	<u>100-year flood (ft above m.s.l.)</u>	<u>PMF (ft above m.s.l.)</u>
△1	5630.8	5635.4
△2	5643.3	5646.9
△3	5654.6	5658.3
△4	5672.6	5676.9
△5	5693.4	5699.0

Table 10-3 Flood Elevations predicted by HEC-2 for Wash No. 1

<u>Profile #</u>	<u>100-year flood (ft above m.s.l.)</u>	<u>PMF (ft above m.s.l.)</u>
1	5598.0	5599.3
2	5599.6	5601.8
3	5602.1	5603.9
4	5608.6	5614.2
5	5615.7	5617.7
6	5617.3	5619.6
7	5620.6	5623.0
8	5626.9	5628.7
9	5632.7	5634.4
10	5642.8	5644.7
11	5660.6	5662.9
12	5675.5	5676.9
13	5697.1	5698.5

Table 10-4 Flood Elevations predicted by HEC-2
for Wash No. 2

<u>Profile #</u>	<u>100-year flood (ft above m.s.l.)</u>	<u>PMF (ft above m.s.l.)</u>
1	5601.1	5602.6
2	5607.0	5608.3
3	5616.8	5619.6
4	5629.7	5629.4
5	5634.2	5636.0
6	5645.1	5646.8
7	5664.7	5666.1
8	5673.0	5675.3



20 FOOT CONTOUR INTERVAL

Figure 10-3
 Location of Off-Site
 Profiles for Flood Calculation



① CHANNEL
 BOTTOM WIDTH = 30 FT
 SIDESLOPES 2/1
 DEPTH = 6.0 FT

② CHANNEL
 BOTTOM WIDTH = 60 FT
 SIDESLOPES 2/1
 DEPTH = 4.0 FT

③ CHANNEL
 BOTTOM WIDTH = 50 FT
 SIDESLOPES 2/1
 DEPTH = 2.0 FT
 ONE
 TOP WIDTH = 5.0 FT
 SIDESLOPES 2/1
 HEIGHT = 5.0 FT

PLANT SITE

DRAINAGE CHANNEL

13

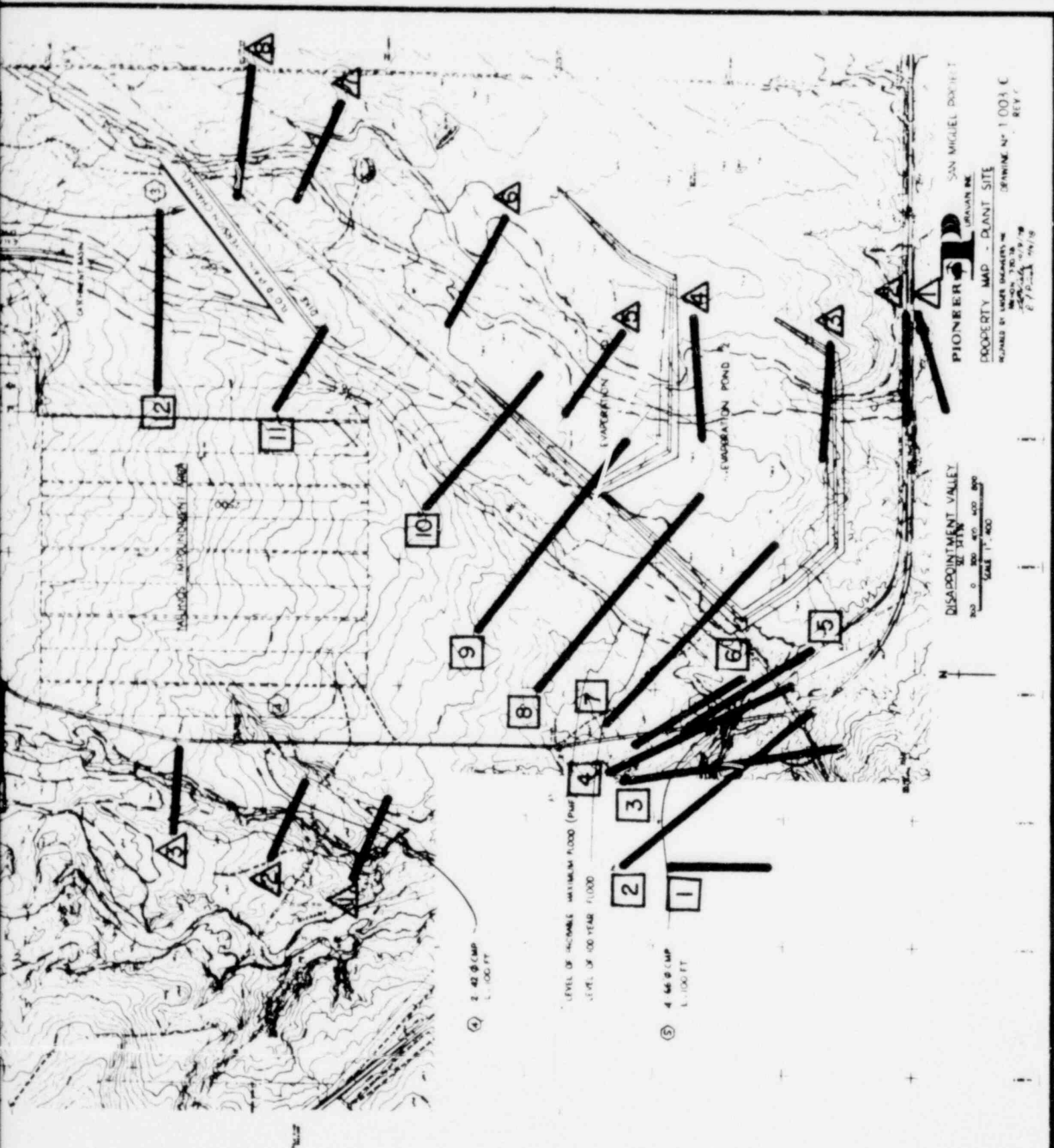


Figure 10-7
 Location of On-Site
 Profiles for Flood Calculation

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