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2007 FEB 23 PM 2:03

DEPARTMENT OF WATER SUPPLY  
COUNTY OF MAUI  
200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793-2155  
www.mauiwater.org

OFFICE OF THE MAYOR

February 23, 2007

Honorable Charmaine Tavares  
Mayor, County of Maui  
200 South High Street  
Wailuku, Hawaii 96793

For Transmittal to:

Honorable Michelle Anderson, Chair  
Water Resources Committee  
Maui County Council  
200 South High Street  
Wailuku, Hawaii 96793

RECEIVED  
07 FEB 23 PM 2:35  
OFFICE OF THE  
COUNTY COUNCIL  
APPROVED  
*Charmaine Tavares*  
Mayor  
2-23-07  
Date

Dear Chair Anderson:

**SUBJECT: ACCESS THROUGH THE HANS MICHEL PROPERTY  
MAINTENANCE AND OPERATION OF KANAHA VALLEY  
STREAM (WR-27)**

Thank you for the opportunity to respond to your February 14, 2007 inquiry into this matter. We offer the following responses to your specific questions (which are referenced in bold):

1. Provide a detailed explanation regarding the efforts to obtain a permit from the Corps of Engineers to begin the extensive repairs to the stream crossing located on State property (Condition No. 2).
  - a. Has your Department obtained the permit?
  - b. Has anyone been contracted to do the work?
  - c. Please provide a copy of the design plan being considered by the Department.
  - d. What is the anticipated timeframe for completion?

*"By Water All Things Find Life"*



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Honorable Michelle Anderson  
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Initial contact with the Corps of Engineers has not yet resulted in a site visit. Construction plans for the remedy are not yet prepared. At this time, due to high construction costs, the Department anticipates accomplishing this work with our current staffing and funds appropriated in the Fiscal Year 2008 budget.

2. **Explain how the retaining wall will be built to prevent further damage to the roadway adjacent to the Kanaha tank site (Condition No. 3).**
  - a. **Who has been contracted to do the work?**
  - b. **When will the work begin?**
  - c. **Is there a design plan? If so, please transmit a copy to the Committee.**

The Department recently acquired rocks from a construction site and delivered them to the property. We are prepared to begin repair to the dry stack rock wall constructed by Mr. Michel (see question 4) on Monday, February 26, 2007. We will construct a similar type wall, at a much smaller scale, at the tank site to control the grade differential and reduce erosion.

3. **Has your Department visited the site to determine whether the two truckloads of base course delivered in December 2005 to repair the roadway was adequate to restore the ground to its original condition?**

Yes, the Department has visited the site multiple times since December 2005 and the area is adequately graded.

4. **At the meeting of August 2, 2006, the Director of Water Supply stated that repair work to the owner's dry stack rock wall, damaged by an excavator hired by the Department in 2004, will definitely be completed by the end of fiscal year (June 2007).**
  - a. **Who has been contracted to do the work?**
  - b. **When will the work be completed?**

The Department recently hired an excavator to remove sediment deposited at the dam reservoir by heavy rains in late 2006. The contractor's commitments did not allow an earlier entry to perform the necessary work. Similarly, the contractor is not able to commit to assisting with the rock wall repairs as previously discussed.

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The Department is renting an excavator beginning Monday, February 26, and is repairing the wall with current staffing.

5. **At the meeting of September 13, 2007, the Deputy Director of Water Supply stated that the subdivision process is unable to be initiated until a title search has been completed and that the Department is pursuing the title search. What measures have been taken to secure a title search on said property to ensure that Conditions 6, 7, 11, and 12 of the agreement are met? If no measures have been taken, please explain.**

Early in the project, a consultant prepared a preliminary subdivision plat. That plat was not submitted because of land title issues. The Department will secure the services of a title company to perform a title search with funds proposed in the Fiscal Year 2008 budget. Subject to the results of that effort, the next steps will be planned.

6. **Condition No. 8 states, "The board shall discuss with the State of Hawaii and Pioneer Mill the Owner's request to repair pedestrian trail along cliff eroded by overflow water from screen box, and erosion on property caused by overflow water." Your Department responded that the design of the overflow allowed the water to cascade over the cliff wall. Please provide the Committee with the original design of the overflow and explain how the Department plans to prevent further erosion.**

Attached are sheets C-7, 8 & 10 of the 1994 construction plans (there appears to be no sheet C-9). The screen box overflow drainline is highlighted in pink for identification. Please note this drainline is also used for overflow from the Department of Education tanks, the DWS finish water tank, and return water from the DWS Lahaina Water Treatment Facility (highlighted in yellow). This drainline collects, and eliminates at least two outlets formerly allowed to cascade over the cliff (highlighted in blue). Our Engineering Division will visit and assess the erosion concern.

7. **At the meeting of August 2, 2006, the Deputy Director of Water Supply stated that he would need about six months to prepare an estimated funding proposal. What measures has your Department taken to secure**

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**funding for the above-mentioned projects? Please include a timetable in your description. If no measures have been taken, please explain.**

Due to booming economy, availability of construction companies to perform the work is limited, and if available, costs are extremely high. We have evaluated the scope of work and will perform the work with current staffing. With respect to the subdivision process, that scope will be determined upon receipt of the title report. That report will also determine the course of action that will be pursued.

Thank you for your attention to this matter. Please feel free to call me at Ext. 7816 if you have any questions.

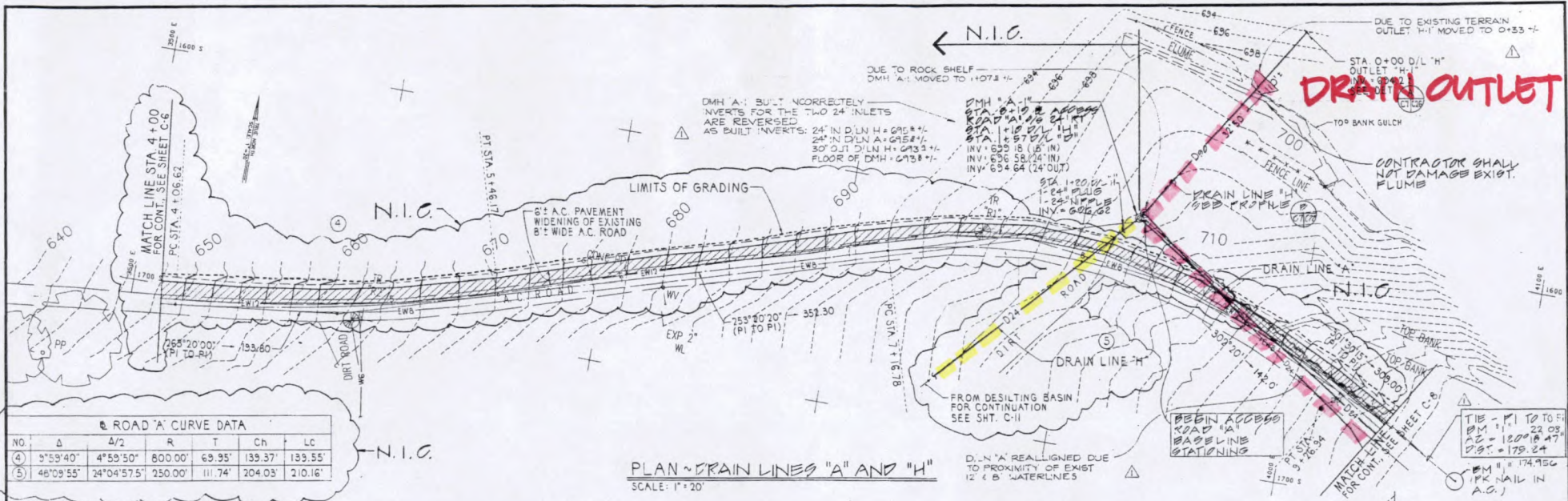
Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey K. Eng". The signature is written in a cursive style with a large initial "J" and a long, sweeping underline.

JEFFREY K. ENG  
Director of Water Supply

Attachments

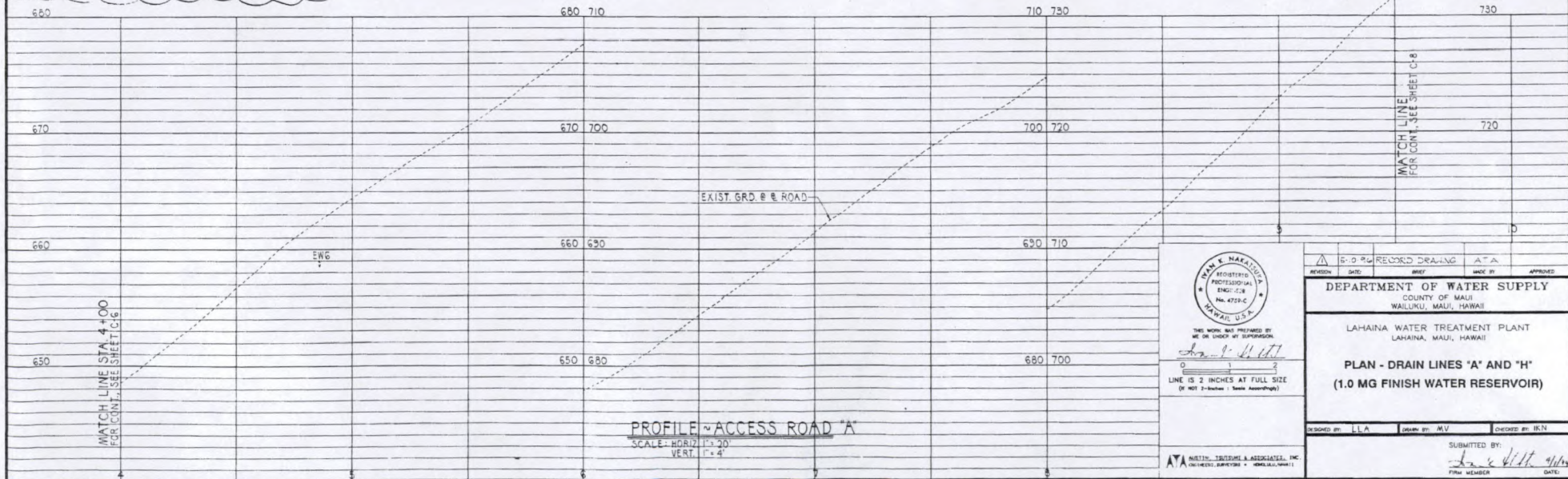




ROAD 'A' CURVE DATA

NO.	Δ	Δ/2	R	T	Ch	Lc
(4)	9°59'40"	4°59'50"	800.00'	69.95'	139.37'	139.55'
(5)	48°09'55"	24°04'57.5"	250.00'	111.74'	204.03'	210.16'

PLAN - DRAIN LINES "A" AND "H"  
SCALE: 1" = 20'



PROFILE - ACCESS ROAD "A"  
SCALE: HORIZ 1" = 20'  
VERT 1" = 4'

IVAN K. NAPOLITANO  
REGISTERED PROFESSIONAL ENGINEER  
No. 4729-C  
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
*Ivan K. Napolitano*

LINE IS 2 INCHES AT FULL SIZE  
(IF NOT 2-INCH: SCALE APPROXIMATE)

REVISION	DATE	BY	APPROVED
5-9-96		RECORDED DRAWING	ATA

DEPARTMENT OF WATER SUPPLY  
COUNTY OF MAUI  
WAILUKU, MAUI, HAWAII

LAHAINA WATER TREATMENT PLANT  
LAHAINA, MAUI, HAWAII

**PLAN - DRAIN LINES "A" AND "H"**  
**(1.0 MG FINISH WATER RESERVOIR)**

DESIGNED BY: LLA    CHECKED BY: M.V.    APPROVED BY: BKN

SUBMITTED BY: *Ivan K. Napolitano*  
DATE: 5/9/96

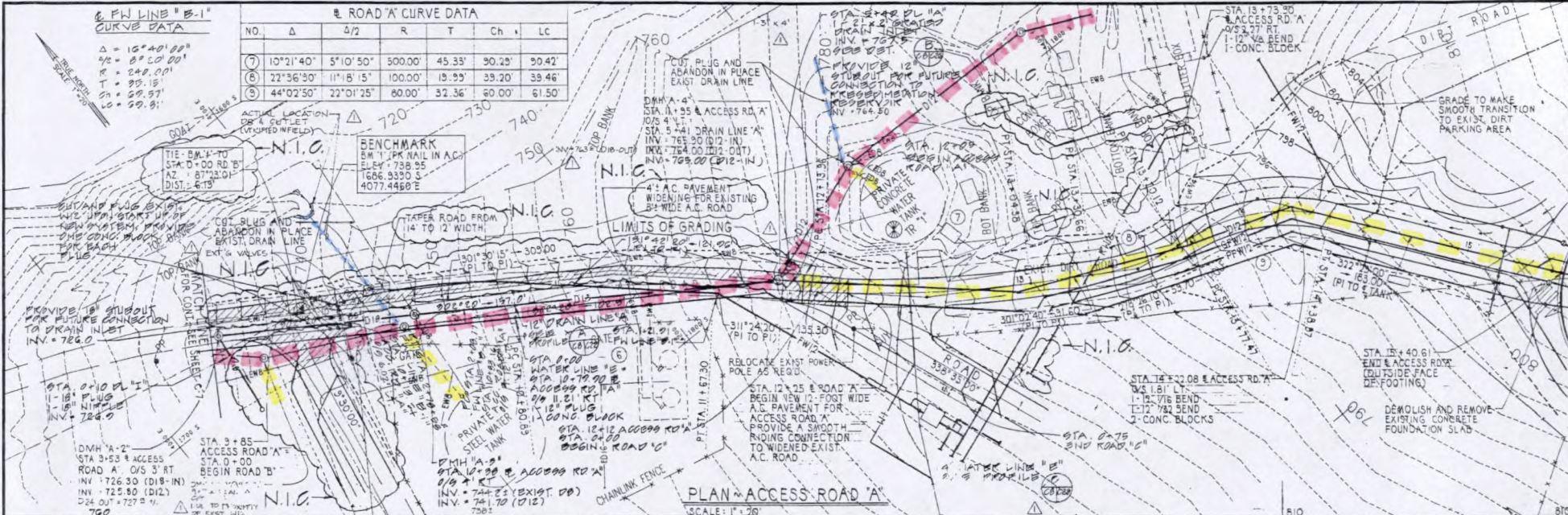


**6. FIN LINE "B-1" CURVE DATA**

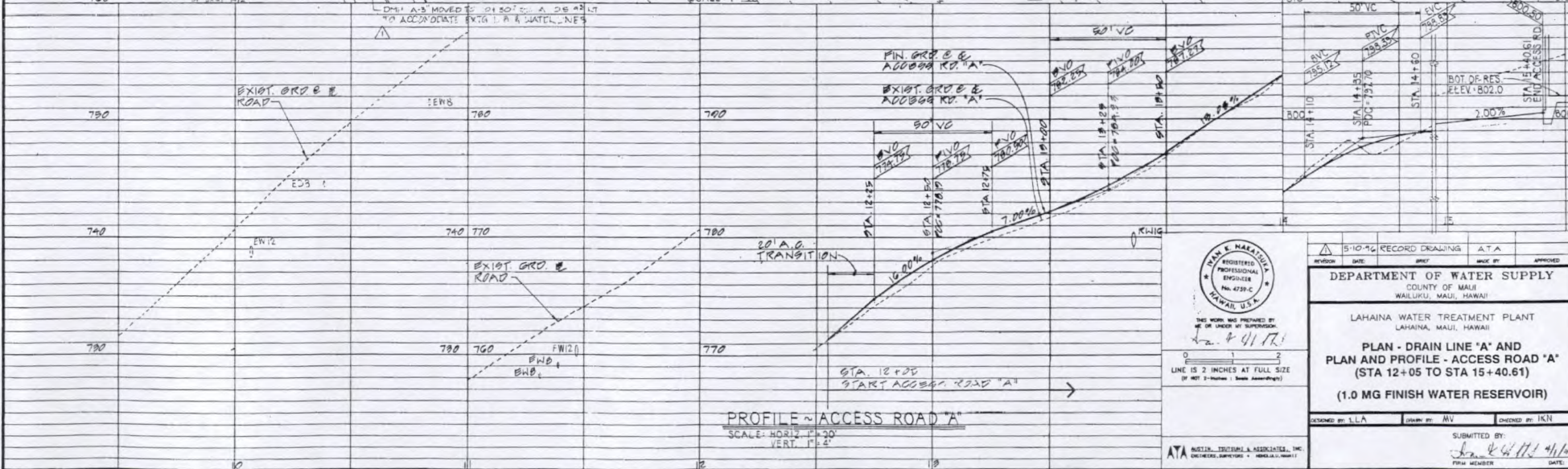
Δ = 15°40'00"  
 4/2 = 8°00'00"  
 R = 240.00'  
 T = 39.19'  
 Ch = 29.97'  
 LC = 29.97'

**7. ROAD "A" CURVE DATA**

NO.	Δ	4/2	R	T	Ch	LC
7	10°21'40"	5°10'50"	500.00'	45.33'	30.28'	30.42'
8	22°36'30"	11°18'15"	100.00'	19.99'	39.20'	39.46'
9	44°02'50"	22°01'25"	80.00'	32.36'	80.00'	61.50'



**PLAN - ACCESS ROAD 'A'**  
 SCALE: 1" = 20'



**PROFILE - ACCESS ROAD 'A'**  
 SCALE: HORIZ. 1" = 30'  
 VERT. 1" = 4'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION  
 2-4-17  
 LINE IS 2 INCHES AT FULL SIZE  
 (BY MET. 2-INCHES 1/2 INCHES)

REVISION	DATE	BY	CHKD BY	APPROVED
5-10-16				

**DEPARTMENT OF WATER SUPPLY**  
 COUNTY OF MAUI  
 WAILUKU, MAUI, HAWAII

LAHAINA WATER TREATMENT PLANT  
 LAHAINA, MAUI, HAWAII

**PLAN - DRAIN LINE 'A' AND  
 PLAN AND PROFILE - ACCESS ROAD 'A'**  
 (STA 12+05 TO STA 15+40.61)

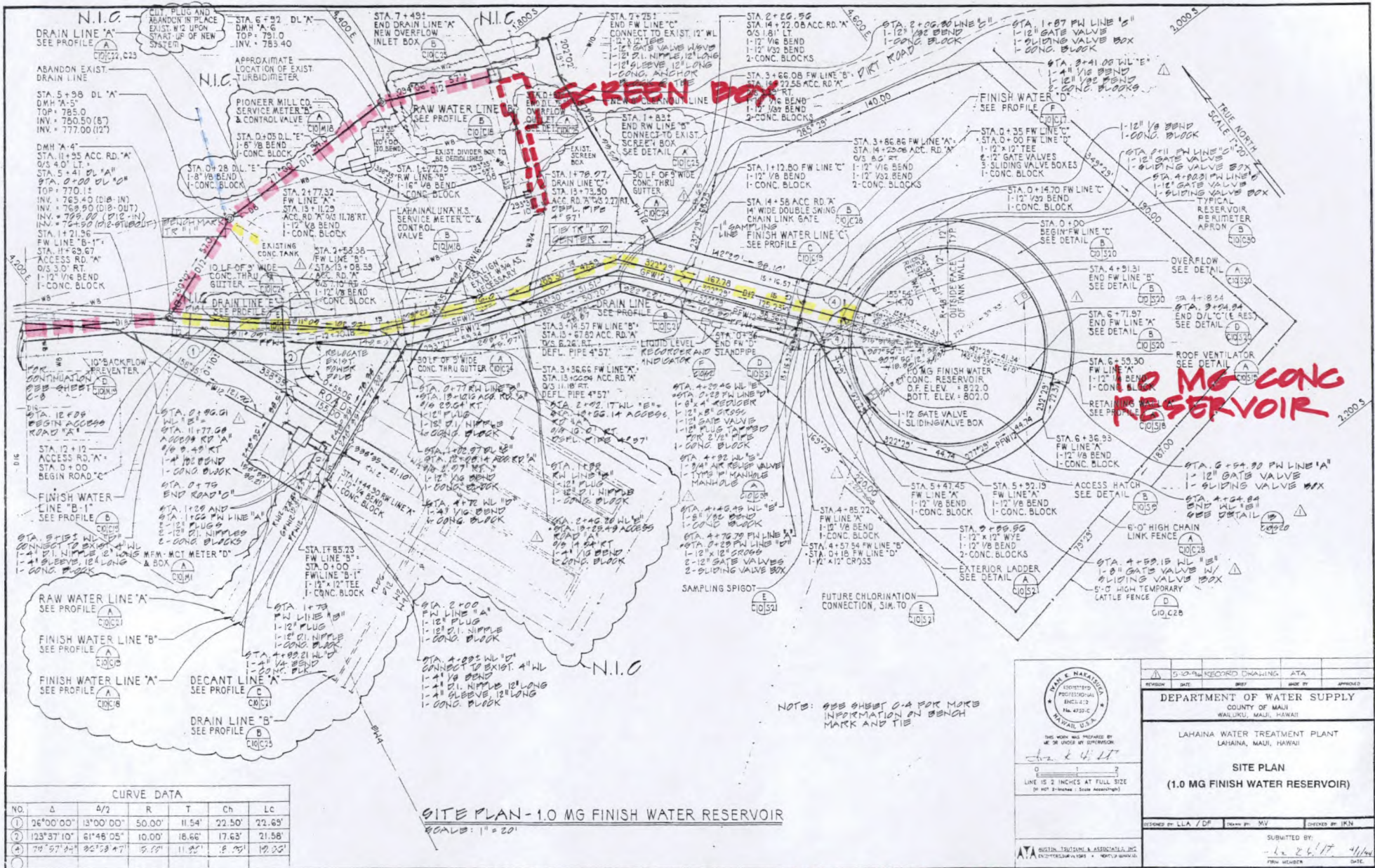
**(1.0 MG FINISH WATER RESERVOIR)**

DESIGNED BY: LLA    DRAWN BY: JNV    CHECKED BY: IKH

ATA    HALLIDAY, THOMPSON & ASSOCIATES, INC.  
 ENGINEERS, ARCHITECTS & SURVEYORS

SUBMITTED BY: JNV    DATE: 2-4-17





**CURVE DATA**

NO.	Δ	Δ/2	R	T	Ch	Lc
①	26°00'00"	13°00'00"	50.00'	11.54'	22.50'	22.63'
②	123°37'10"	61°48'05"	10.00'	18.66'	17.63'	21.58'
③	74°57'54"	37°28'47"	5.15'	11.95'	8.75'	19.25'

**SITE PLAN - 1.0 MG FINISH WATER RESERVOIR**  
SCALE: 1" = 20'

NOTE: SEE SHEET C-9 FOR MORE INFORMATION ON BENCH MARK AND TIE

THE WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

*N. I. C.*

5-10-16 RECORD DRAWING	ATA
REVISION	DATE

**DEPARTMENT OF WATER SUPPLY**  
COUNTY OF MAUI  
MAUI, HAWAII

**LAHAINA WATER TREATMENT PLANT**  
LAHAINA, MAUI, HAWAII

**SITE PLAN**  
**(1.0 MG FINISH WATER RESERVOIR)**

DESIGNED BY LLA / JDF

MADE BY MV

CHECKED BY JKN

SUBMITTED BY: *N. I. C.*

DATE: 2/6/17

(NOTE: NO SHT C-9)