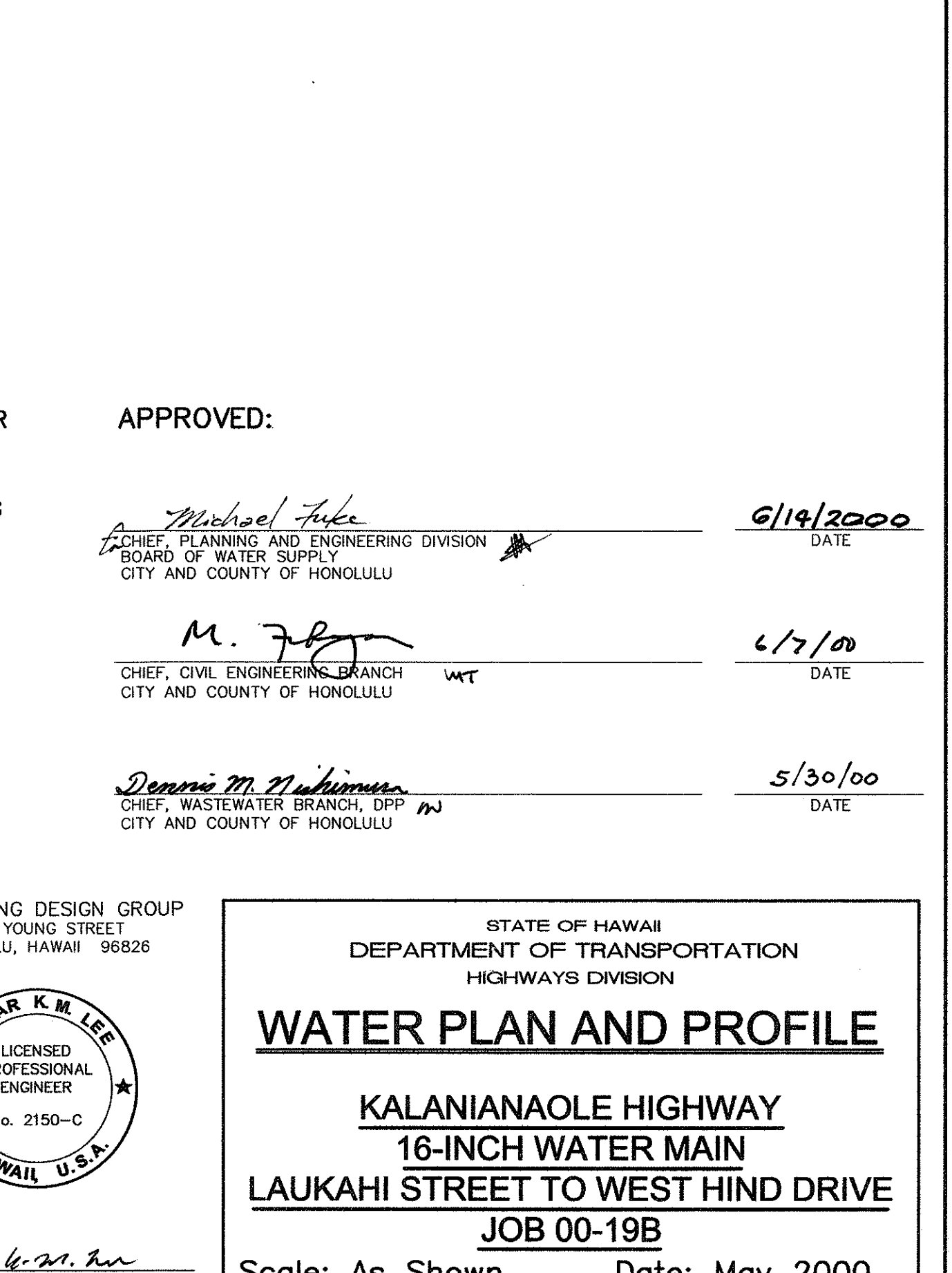
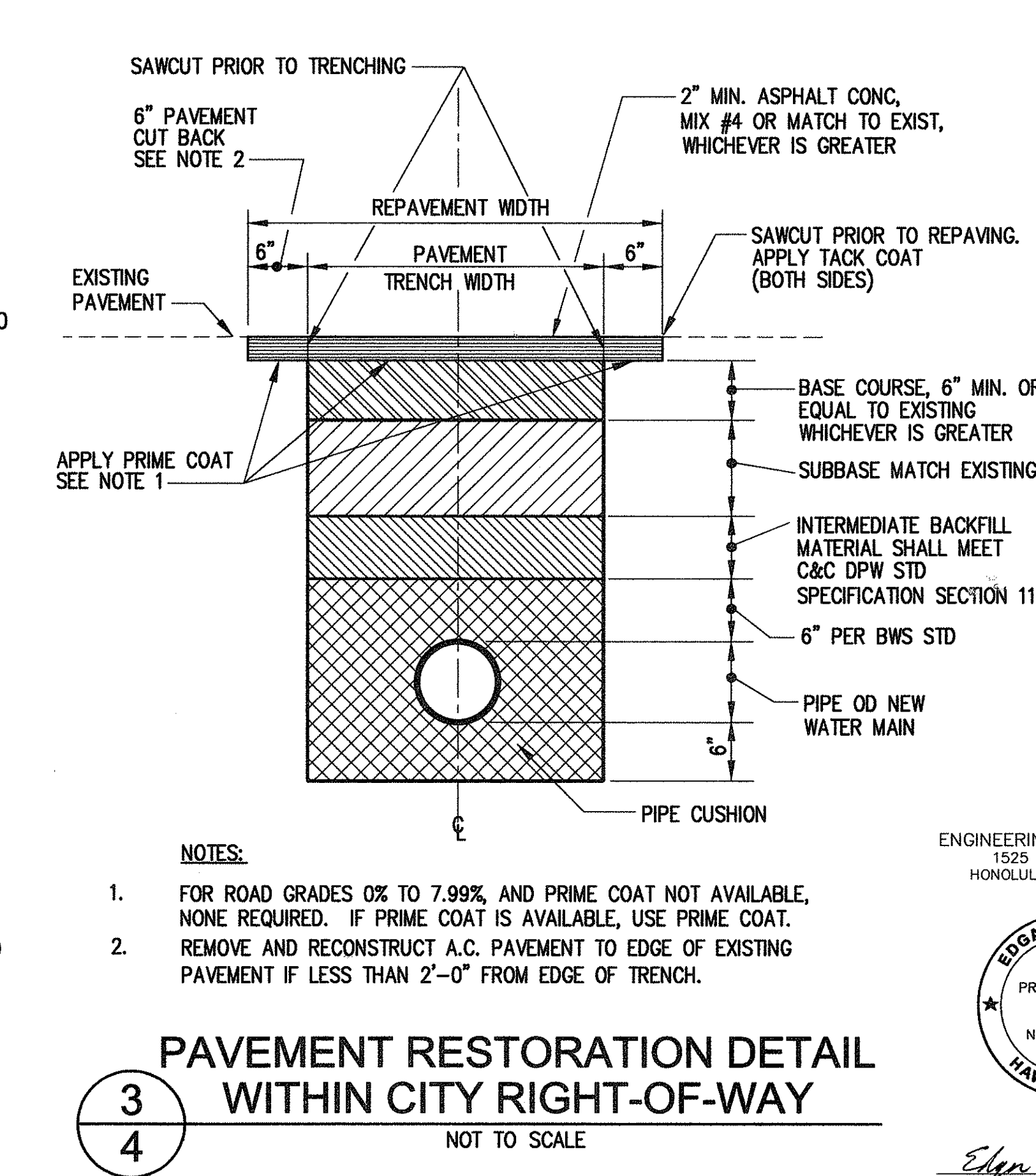


[illegible]

Edgar L. M. M.
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ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER PLAN AND PROFILE

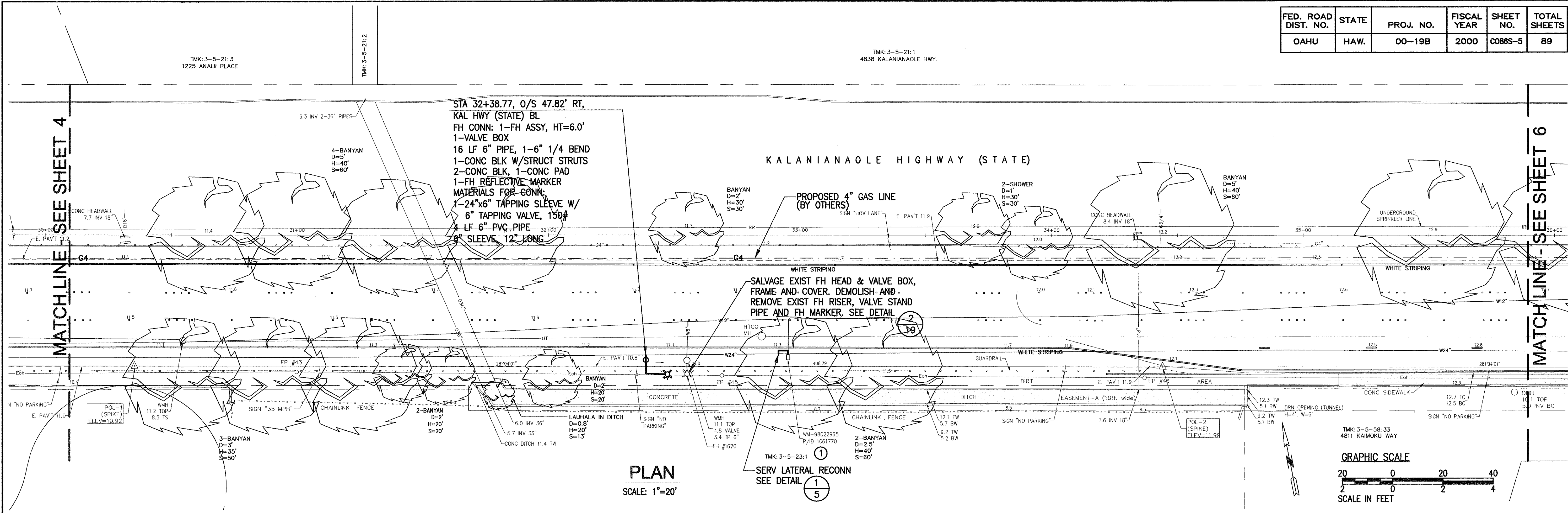
KALANIANA'OLE HIGHWAY
16-INCH WATER MAIN

LAUKAHI STREET TO WEST HIND DRIVE
JOB 00-19B

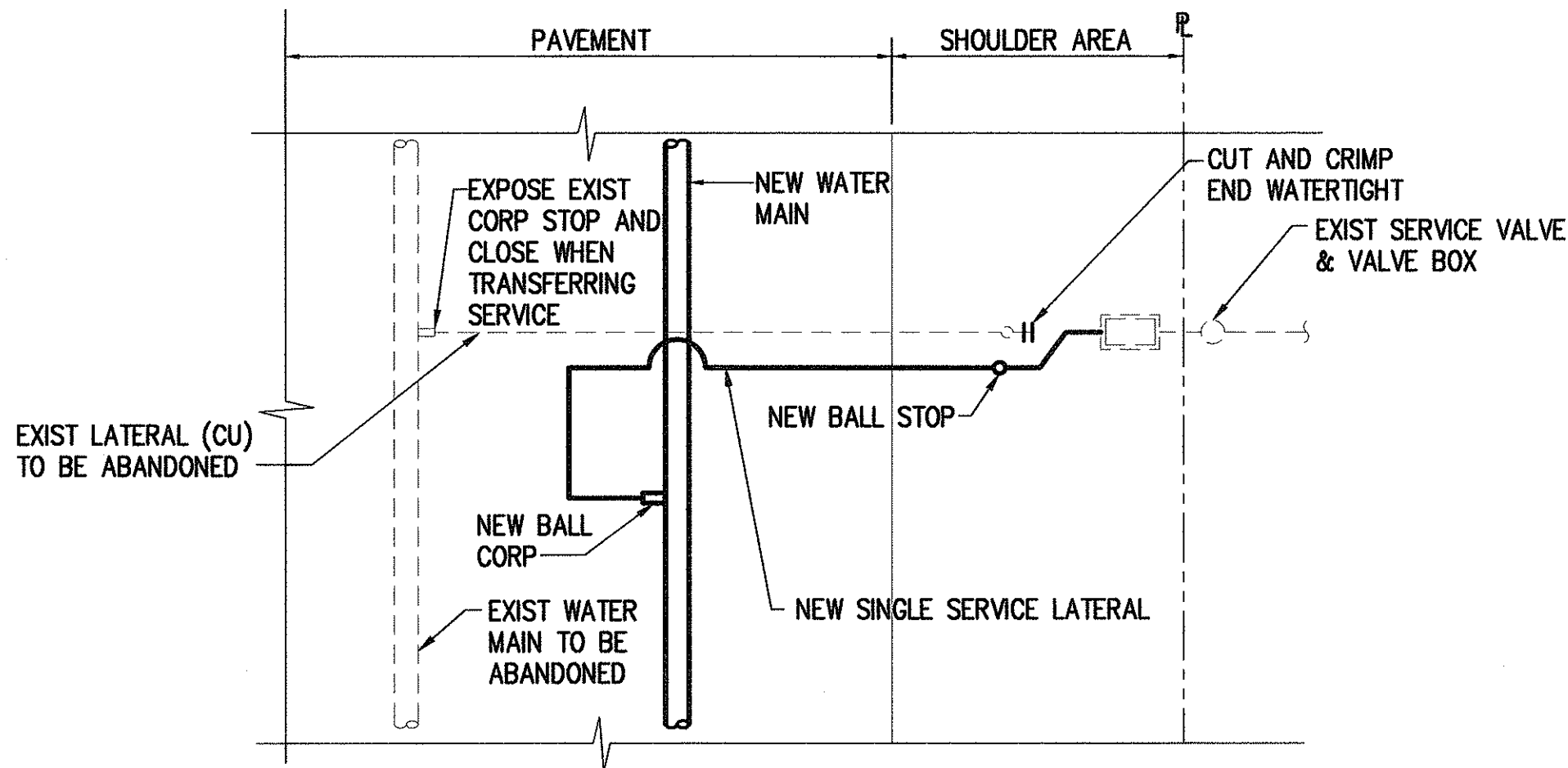
Scale: As Shown Date: May 2000

SHEET No. 4 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
OAHU	HAW.	00-19B	2000	C086S-5	89



ID#	PREM-ID	M/N	EXISTING			NEW	
			MTR SIZE	LAT SIZE	BOX TYPE	CU RECON. TYPE BOX	LATERAL TYPE BOX
1	1061770	98022965	02	A	CU	X	1"



1
5 SERVICE LATERAL RECONN
NOT TO SCALE

APPROVED:

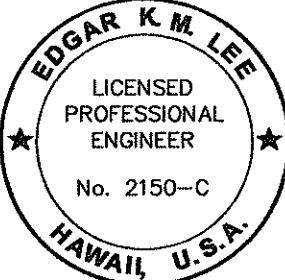
Michael Luke
CHIEF, PLANNING AND ENGINEERING DIVISION
BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

6/14/2000
DATE

Dennis M. Nishimura
CHIEF, WASTEWATER BRANCH, DPP
CITY AND COUNTY OF HONOLULU

5/30/00
DATE

ENGINEERING DESIGN GROUP
1525 YOUNG STREET
HONOLULU, HAWAII 96826



Edgar K.M. Lee
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER PLAN AND PROFILE

KALANIANA'OLE HIGHWAY
16-INCH WATER MAIN
LAUKAHI STREET TO WEST HIND DRIVE
JOB 00-19B

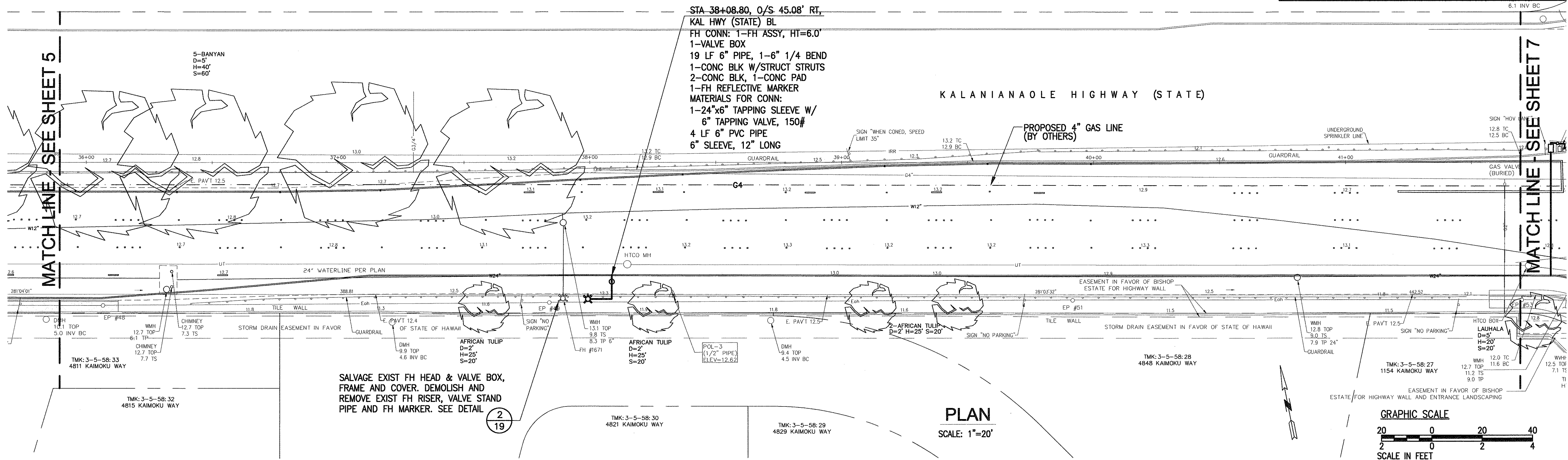
Scale: As Shown Date: May 2000

SHEET No. 5 OF 19 SHEETS

C086S-5

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
CHECKED BY	
No.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
OAHU	HAW.	00-19B	2000	C086S-6	89



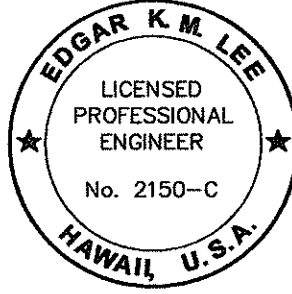
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

APPROVED:

Michael T. Lee 6/14/2000
CHIEF, PLANNING AND ENGINEERING DIVISION
BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

Dennis M. Nishimura 5/30/00
CHIEF, WASTEWATER BRANCH, DPP
CITY AND COUNTY OF HONOLULU

ENGINEERING DESIGN GROUP
1525 YOUNG STREET
HONOLULU, HAWAII 96826



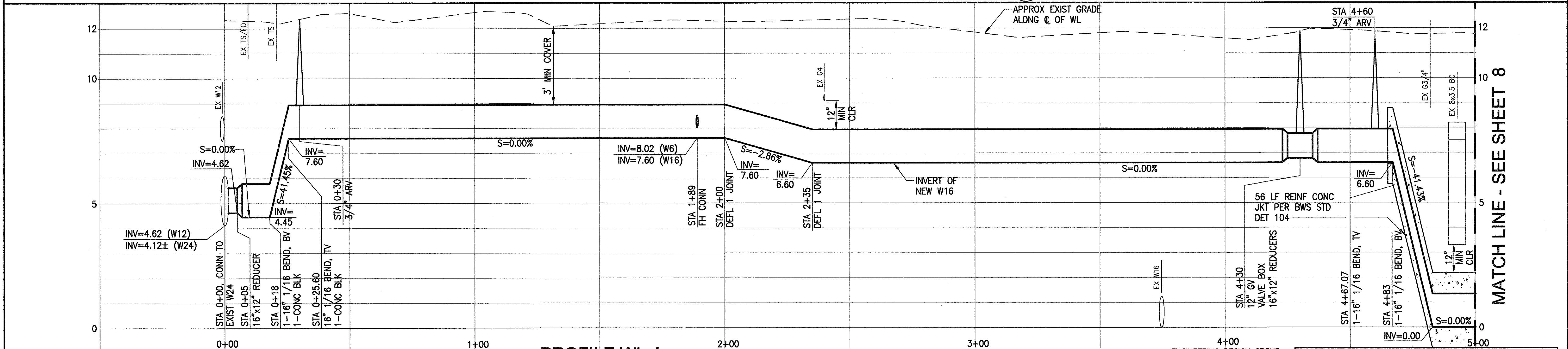
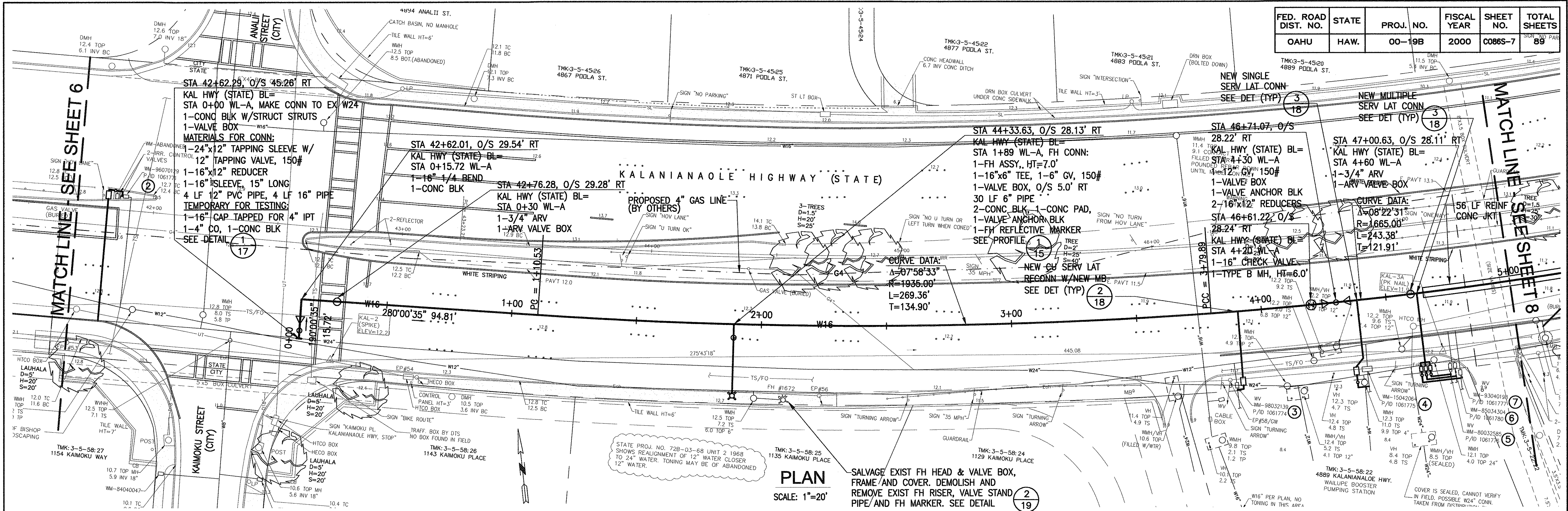
Edgar K.M. Lee
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ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WATER PLAN AND PROFILE

KALANIANA'OLE HIGHWAY
16-INCH WATER MAIN
LAUKAHI STREET TO WEST HIND DRIVE
JOB 00-19B
Scale: As Shown Date: May 2000
SHEET No. 6 OF 19 SHEETS

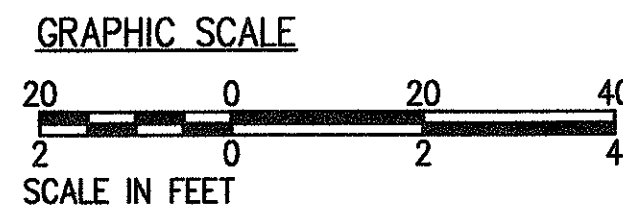
C086S-6

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
OAHU	HAW.	00-19B	2000	C086S-7	89



DATE	BY
DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	

ID#	PREM-ID	M/N	MTR SIZE	LAT TYPE	BOX TYPE	CU RECON. TYPE BOX	LATERAL TYPE BOX
2	1061771	96070129	07				
3	1061774	98032139	03	C	CU	B	1-1/2"/X
4	1061775	15042064	07				E/III
5	1061776	80032585	03	B	CU	X	E-2/X
6	1061780	85034304	03	C	CU	B	E-2/X
7	1061777	93040198	04	B	CU	X	E-2/X



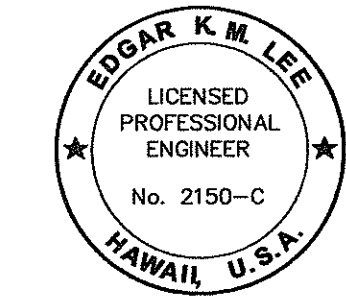
APPROVED:

Michael Fuku
CHIEF, PLANNING AND ENGINEERING DIVISION
CITY AND COUNTY OF HONOLULU

6/14/2000
DATE

Dennis M. Mathison
CHIEF, WASTEWATER BRANCH, DPP
CITY AND COUNTY OF HONOLULU

5/30/00
DATE



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

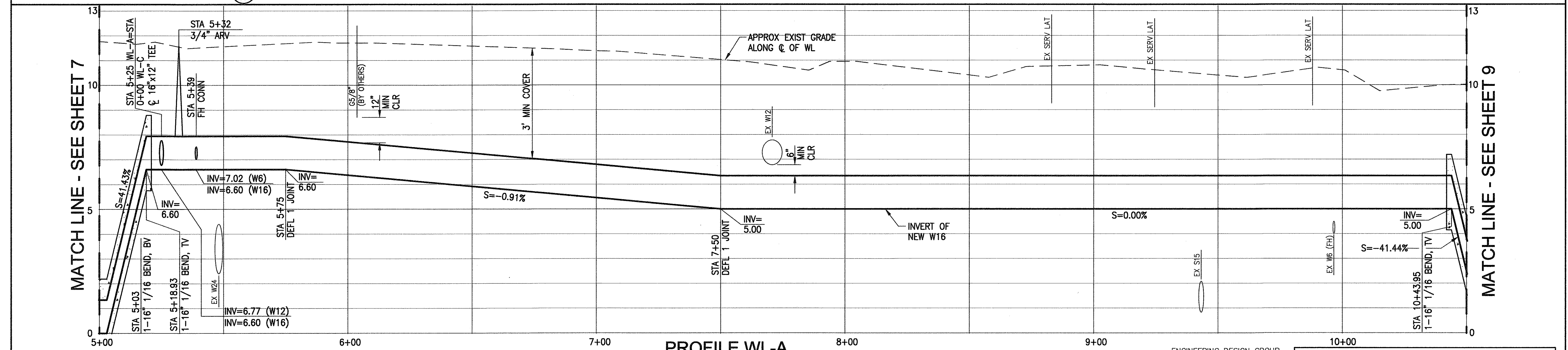
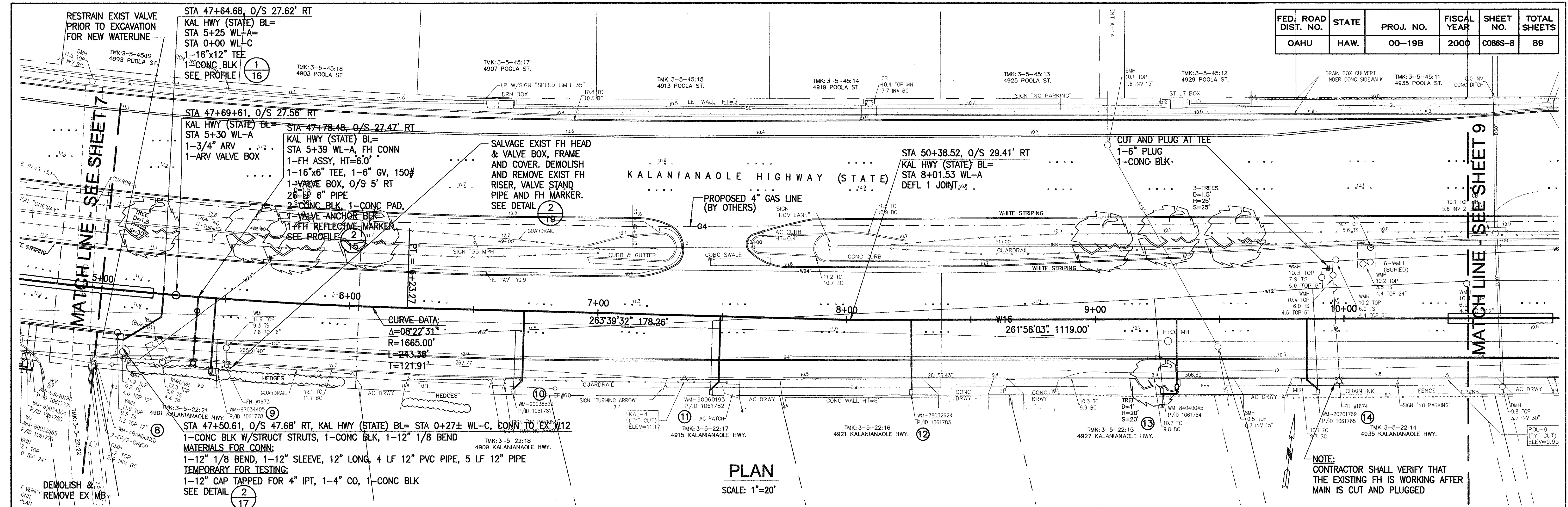
WATER PLAN AND PROFILE

KALANIANA'OLE HIGHWAY
16-INCH WATER MAIN
LAUKAHI STREET TO WEST HIND DRIVE
JOB 00-19B

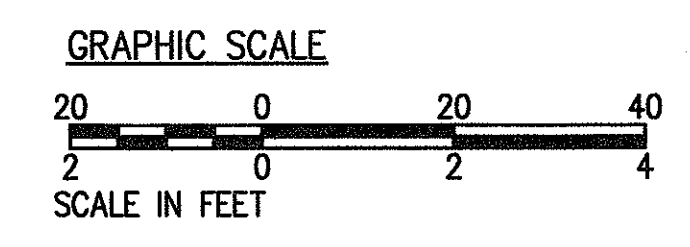
Scale: As Shown Date: May 2000
SHEET No. 7 OF 19 SHEETS

C086S-7

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
0AHU	HAW.	00-19B	2000	C086S-8	89



		EXISTING					NEW	
ID#	PREM-ID	M/N	MTR SIZE	LAT SIZE	LAT TYPE	BOX TYPE	CU RECON./ TYPE BOX	LATERAL / TYPE BOX
8	1061779	O/F 8/15/85	03	C	CU	X		
9	1061778	97034405	03	C	CU	B	1-1/2" /X	
10	1061781	90036829	03	C	CU	X	1-1/2"	
11	1061782	90060193	06	D	CU	III	2"	
12	1061783	78032624	03	C	CU	X	1-1/2"	
13	1061784	84040045	04	D	CU	III	2" /X	
14	1061785	20201769	03	C	CU	X	1-1/2"	

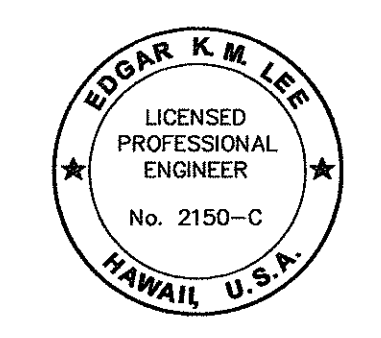


PROFILE WL-A
SCALE: HORIZ 1\"/>

APPROVED:

Michael J. Lee
CHIEF, PLANNING AND ENGINEERING DIVISION
BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

9/14/2000
DATE



Donnie M. Nishimura
CHIEF, WASTEWATER BRANCH, DPP
CITY AND COUNTY OF HONOLULU

5/30/00
DATE

Edgar K.M. Lee
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

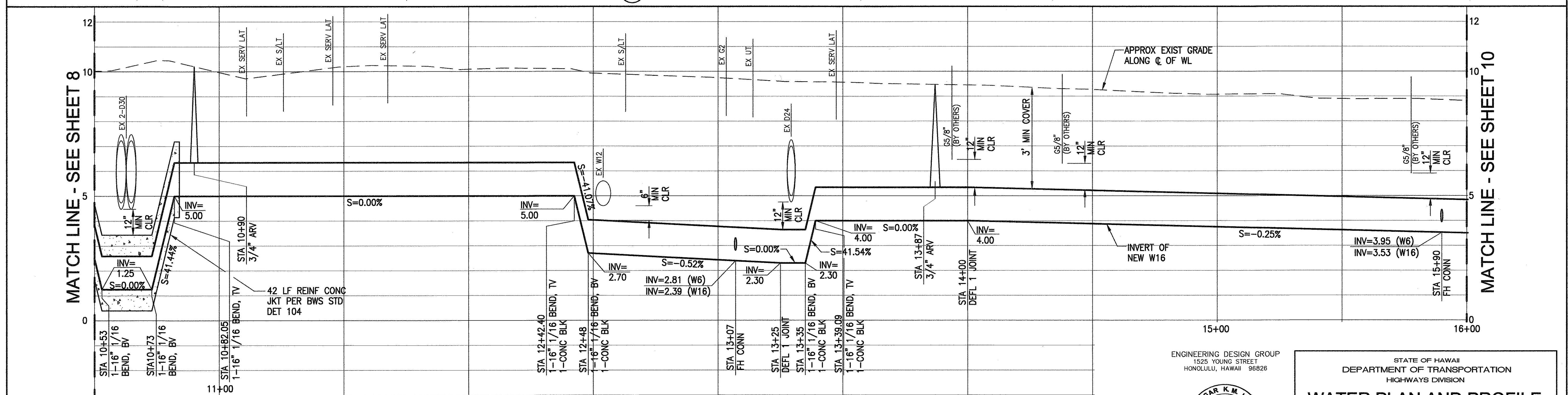
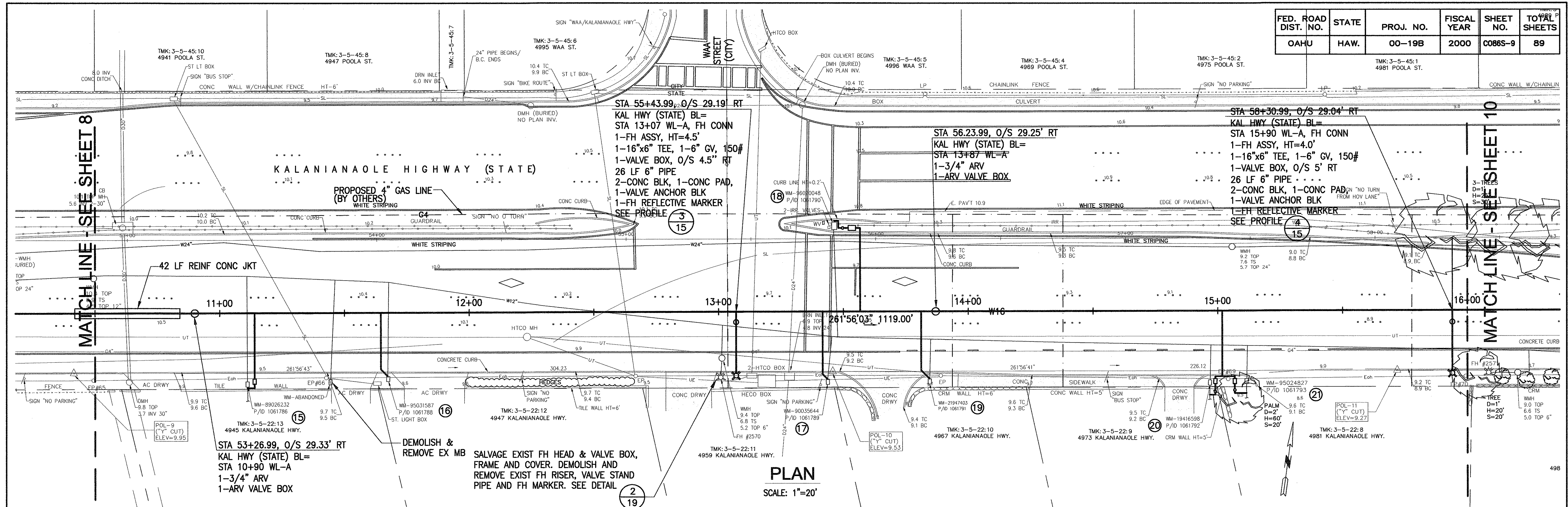
WATER PLAN AND PROFILE

KALANIANA'OLE HIGHWAY
16-INCH WATER MAIN
LAUKAHI STREET TO WEST HIND DRIVE
JOB 00-19B

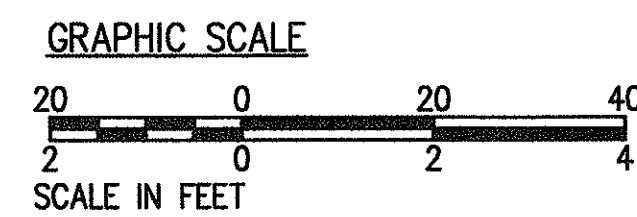
Scale: As Shown Date: May 2000
SHEET No. 8 OF 19 SHEETS

C086S-8

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
OAHU	HAW.	00-19B	2000	C086S-9	89



ID#	PREM-ID	M/N	EXISTING	NEW	LATERAL
15	1061786	89026232	02	C	CU
16	1061788	95031587	03	C	CU
17	1061789	90035644	03	B	CU
18	1061790	96070048	07		
19	1061791	21947403	04	C	CU
20	1061792	19416598	03	B	CU
21	1061793	95024827	02	C	CU



PROFILE WL-A

SCALE: HORIZ 1"=20'
VERT 1"=2'

APPROVED:

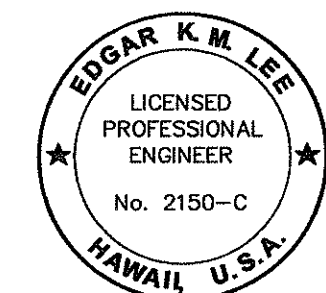
Michael J. Lee
CHIEF, PLANNING AND ENGINEERING DIVISION
BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

6/14/2000
DATE

Dennis M. Nishimura
CHIEF, WASTEWATER BRANCH, DPP
CITY AND COUNTY OF HONOLULU

5/30/00
DATE

ENGINEERING DESIGN GROUP
1525 YOUNG STREET
HONOLULU, HAWAII 96826



Edgar K.M. Lee
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ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

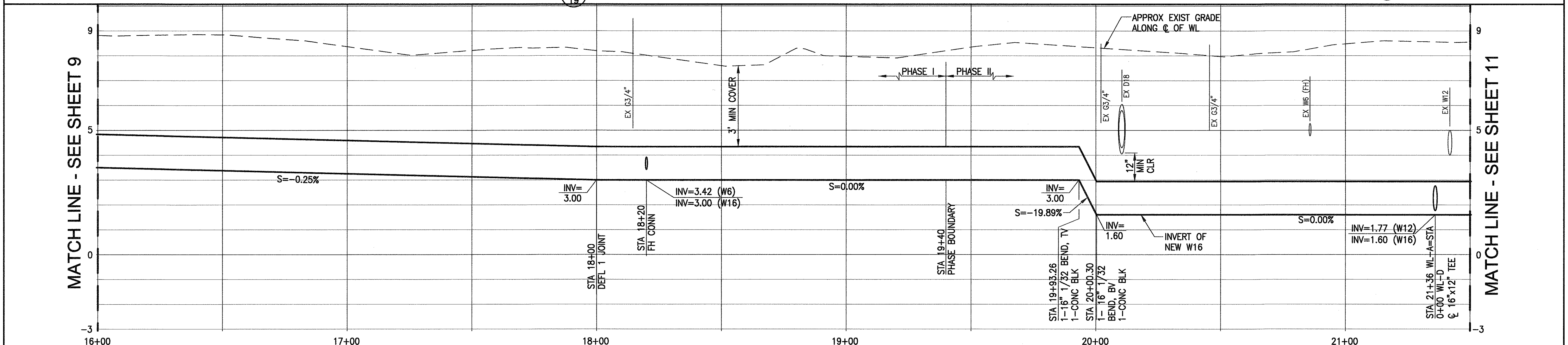
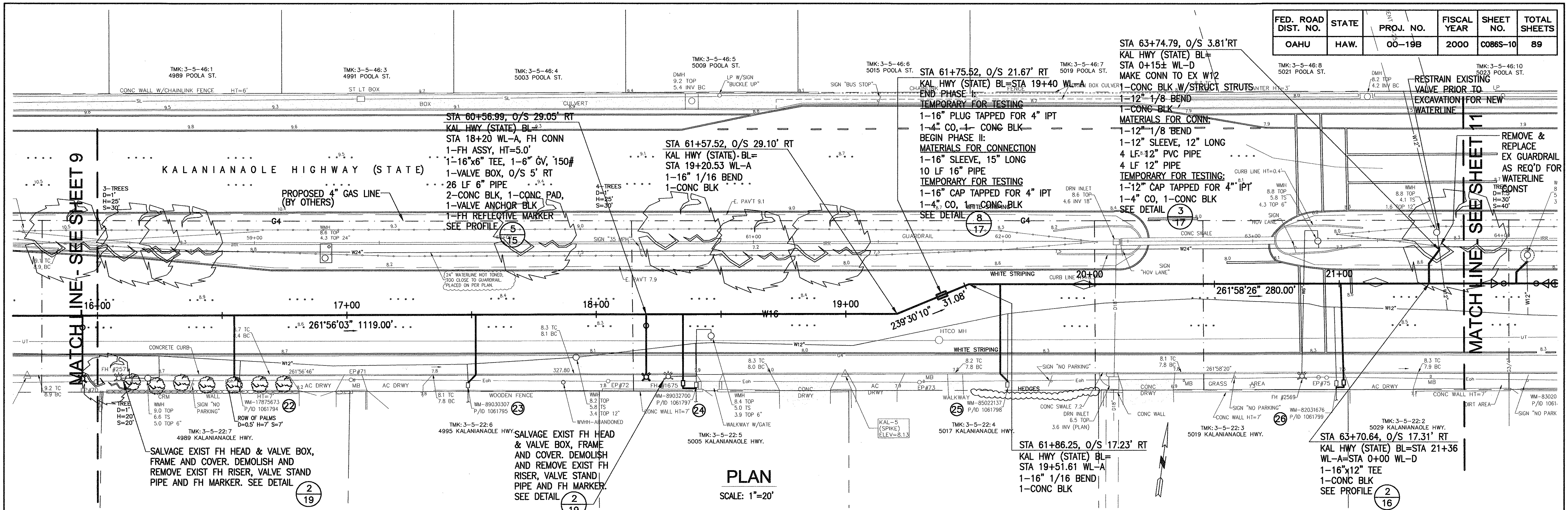
WATER PLAN AND PROFILE

KALANIANA'OLE HIGHWAY
16-INCH WATER MAIN
LAUKAHI STREET TO WEST HIND DRIVE
JOB 00-19B

Scale: As Shown Date: May 2000
SHEET No. 9 OF 19 SHEETS

C086S-9

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
OAHU	HAW.	00-19B	2000	C086S-10	89



ORIGINAL PLAN

SURVEY PLOTTED BY: _____ DATE: _____

DRAWN BY: _____

DESIGNED BY: _____

QUANTITIES BY: _____

CHECKED BY: _____

GRAPHIC SCALE

20 0 20 40

SCALE IN FEET

APPROVED:

Michael J. Lee
CHIEF, PLANNING AND ENGINEERING DIVISION
CITY AND COUNTY OF HONOLULU

Dennis M. Nishimura
CHIEF, WASTEWATER BRANCH, DPP
CITY AND COUNTY OF HONOLULU

Edgar K.M. Lee
LICENSED PROFESSIONAL ENGINEER
No. 2150-C
HAWAII, U.S.A.

DATE: 6/14/2000

DATE: 5/30/00

ID#	PREM-ID	M/N	EXISTING	NEW
			MTR SIZE	LAT TYPE
22	1061794	17875673	04	C
23	1061795	89030307	03	C
24	1061797	89032700	03	B
25	1061798	85022137	02	C
26	1061799	82031676	03	C

EXISTING

MTR SIZE

LAT TYPE

BOX TYPE

CU RECON. TYPE BOX

LATERAL TYPE BOX

NEW

MTR SIZE

LAT TYPE

BOX TYPE

CU RECON. TYPE BOX

LATERAL TYPE BOX

WATER PLAN AND PROFILE

KALANIANA'OLE HIGHWAY

16-INCH WATER MAIN

LAUKAHI STREET TO WEST HIND DRIVE

JOB 00-19B

Scale: As Shown Date: May 2000

SHEET No. 10 OF 19 SHEETS

ENGINEERING DESIGN GROUP

1525 YOUNG STREET

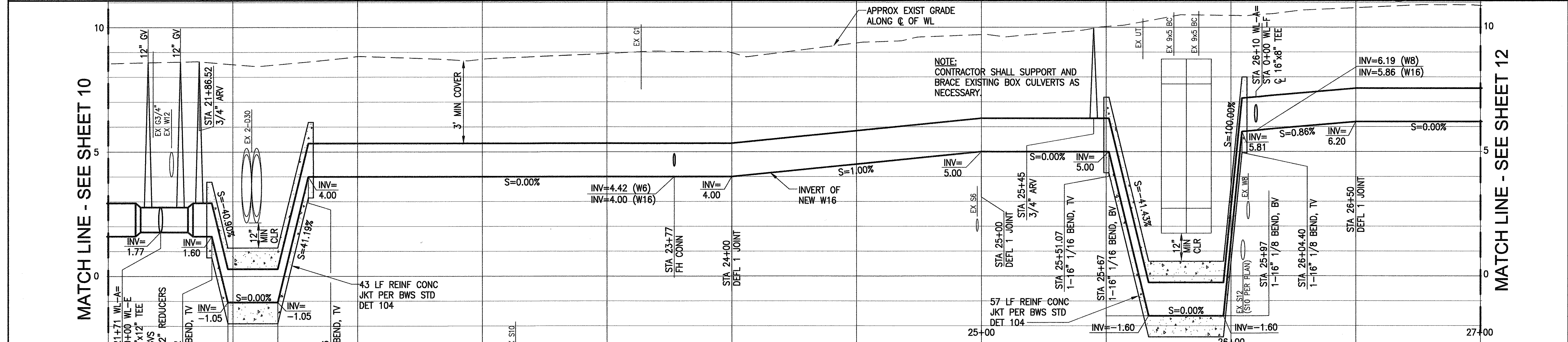
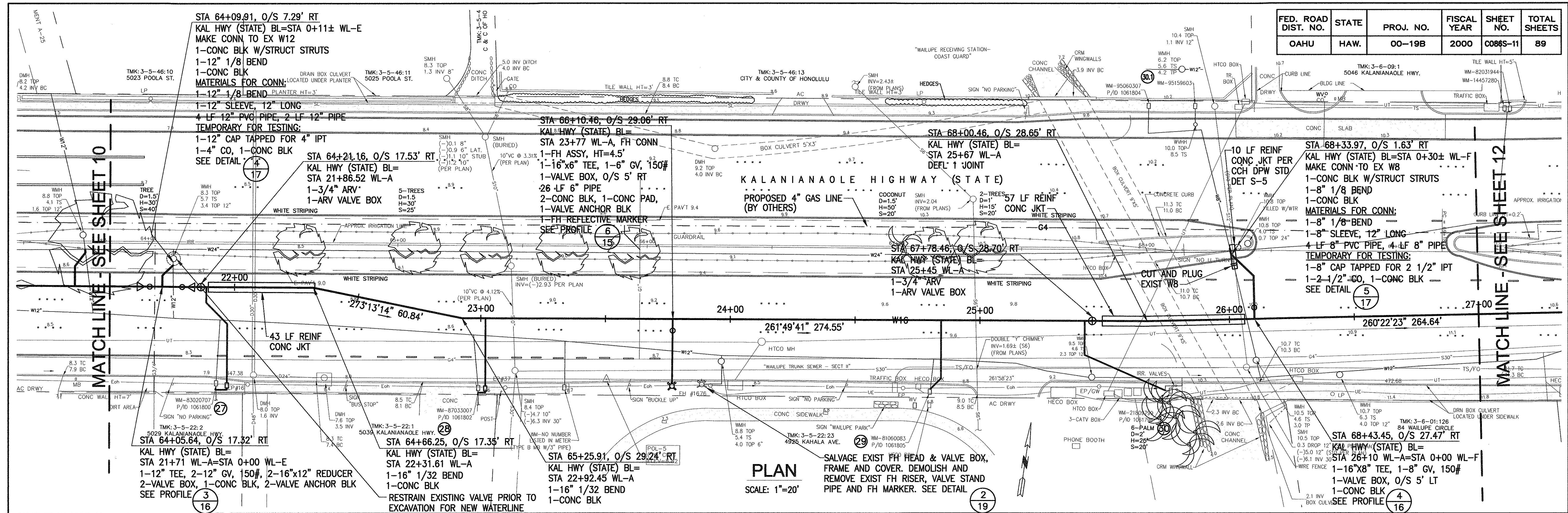
HONOLULU, HAWAII 96826

STATE OF HAWAII

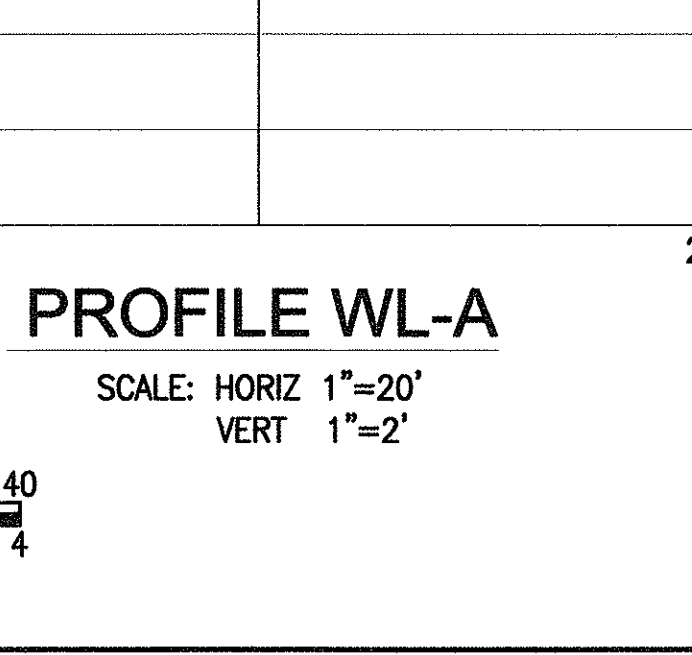
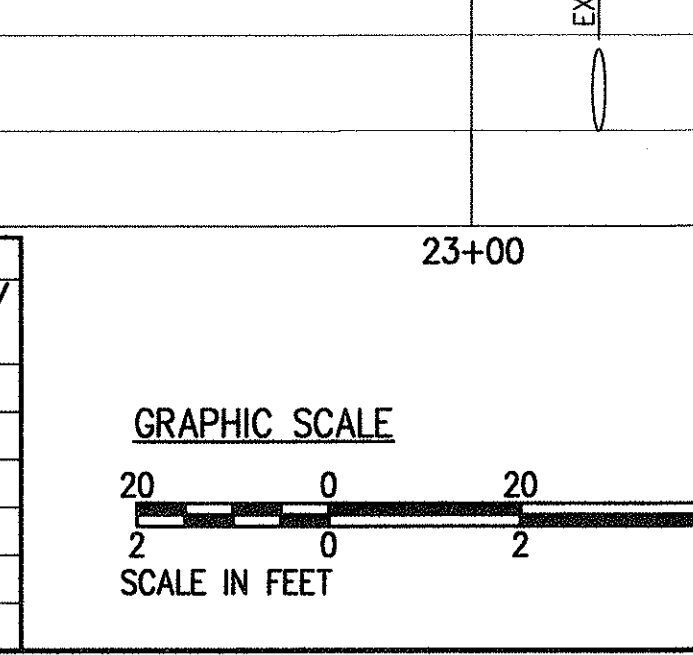
DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
OAHU	HAW.	00-19B	2000	C086S-11	89



ID#	PREM-ID	M/N	MTR SIZE	LAT TYPE	BOX TYPE	CU RECON. TYPE BOX	LATERAL TYPE BOX
27	1061800	83020707	02	B	CU	B	1"/X
28	1061802	87033007	03	B	CU	B	1"/X
29	1061805	81060083	06	E	CU	III	2-1/2"
30	1061796	21809799	07	E	CU	III	2-1/2"
30.1	1061804	95060307	06	B	CU	III	8"
		95159603	15	B	CU	III	8"



APPROVED: *Michael F. Lee*
 CHIEF, PLANNING AND ENGINEERING DIVISION
 BOARD OF WATER SUPPLY
 CITY AND COUNTY OF HONOLULU

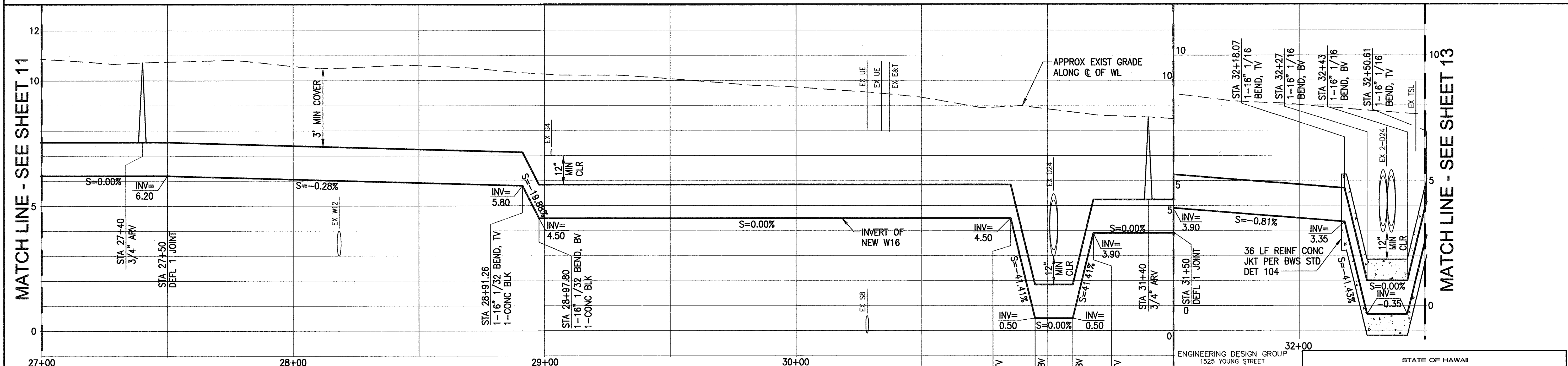
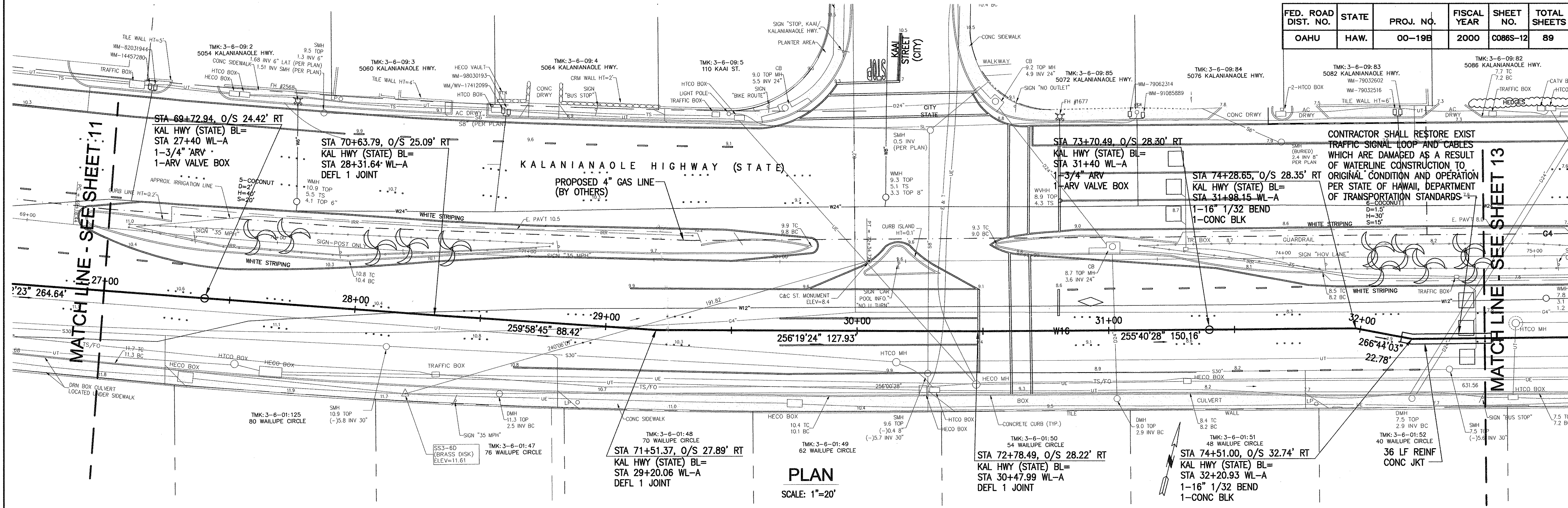
DATE: 6/14/2000
 DATE: 5/30/00

EDGAR K.M. LEE
 LICENSED PROFESSIONAL ENGINEER
 No. 2150-C
 HAWAII, U.S.A.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
WATER PLAN AND PROFILE
 KALANIANA'OLE HIGHWAY
 16-INCH WATER MAIN
 LAUKAHI STREET TO WEST HIND DRIVE
 JOB 00-19B
 Scale: As Shown Date: May 2000
 SHEET No. 11 OF 19 SHEETS

C086S-11

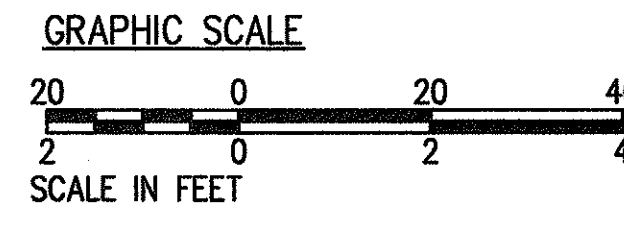
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
OAHU	HAW.	00-19B	2000	C086S-12	89



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

APPROVED: *Michael J. Lee*
 CHIEF, PLANNING AND ENGINEERING DIVISION
 BOARD OF WATER SUPPLY
 CITY AND COUNTY OF HONOLULU
 6/14/2000
 DATE

Donna M. Tashiro
 CHIEF, WASTEWATER BRANCH, DPP
 CITY AND COUNTY OF HONOLULU
 5/30/00
 DATE



ENGINEERING DESIGN GROUP
 1525 YOUNG STREET
 HONOLULU, HAWAII 96826

EDGAR K.M. LEE
 LICENSED PROFESSIONAL ENGINEER
 No. 2150-C
 HAWAII, U.S.A.

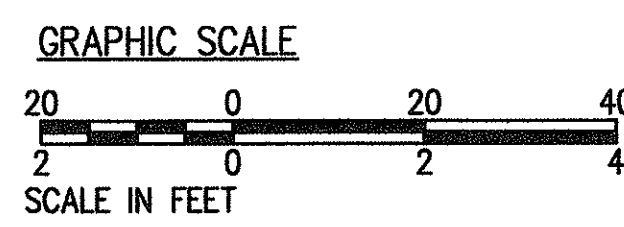
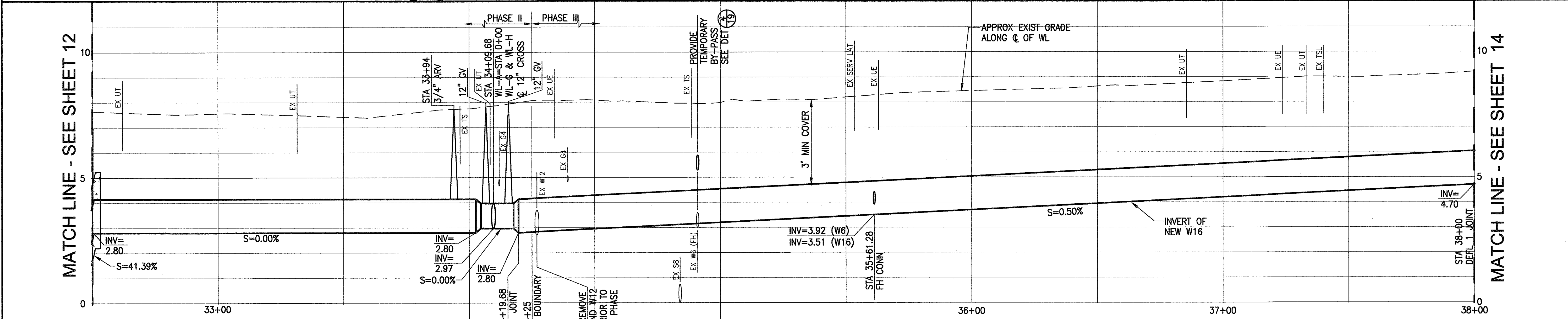
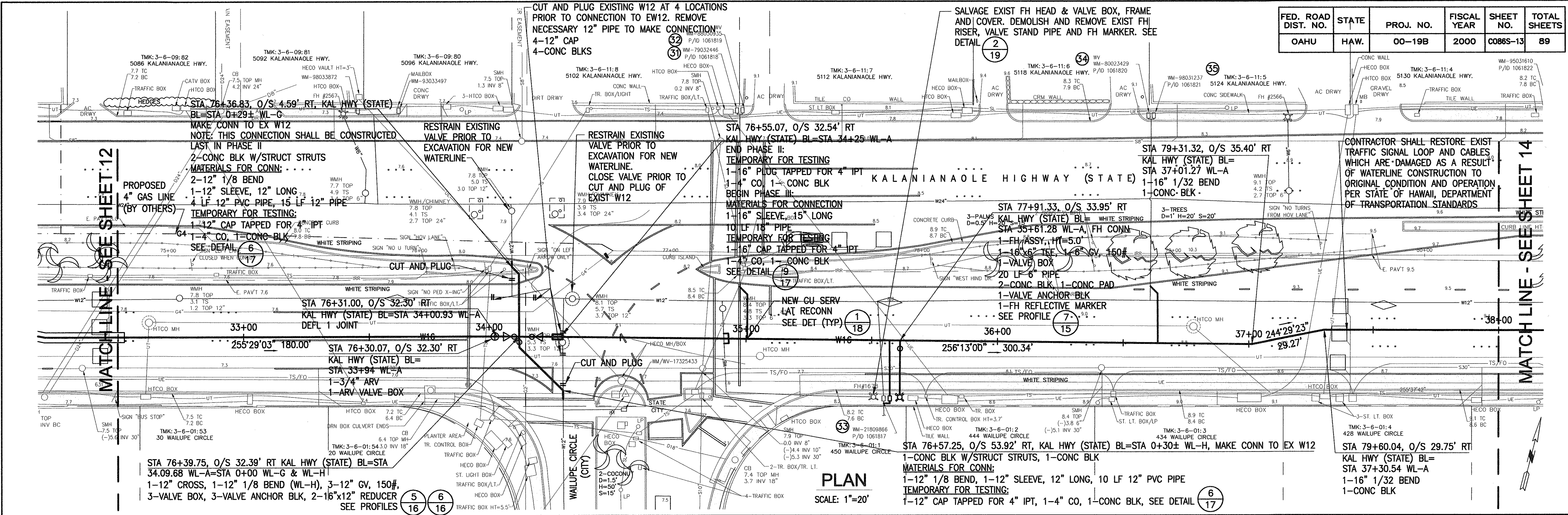
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

WATER PLAN AND PROFILE
 KALANIANA'OLE HIGHWAY
 16-INCH WATER MAIN
 LAUKAHI STREET TO WEST HIND DRIVE
 JOB 00-19B

Scale: As Shown Date: May 2000
 SHEET No. 12 OF 19 SHEETS

C086S-12

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
OAHU	HAW.	00-19B	2000	C086S-13	89



ID#	PREM-ID	M/N	MTR SIZE	LAT TYPE	LAT TYPE	BOX TYPE	CU RECON. TYPE BOX	NEW LATERAL / TYPE BOX
31	1061818	79032446	03	D-1	CU	X	2"	
32	1061819	88030935	03	D-1	CU	X	2"	
33	1061817	21809866	07		III			E/III
34	1061820	80023429	02	E-1	CU	X	2-1/2"	
35	1061821	98031237	03	E-1	CU	X	2-1/2"	

PROFILE WL-A
SCALE: HORIZ 1"=20'
VERT 1"=2'

APPROVED:

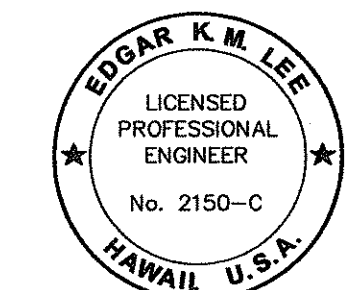
Michael Taka
CHIEF PLANNING AND ENGINEERING DIVISION
BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

6/14/2000
DATE

Dennis M. Tuckman
CHIEF, WASTEWATER BRANCH, DPP
CITY AND COUNTY OF HONOLULU

5/30/00
DATE

ENGINEERING DESIGN GROUP
1525 YOUNG STREET
HONOLULU, HAWAII 96826



Edgar K.M. Lee
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

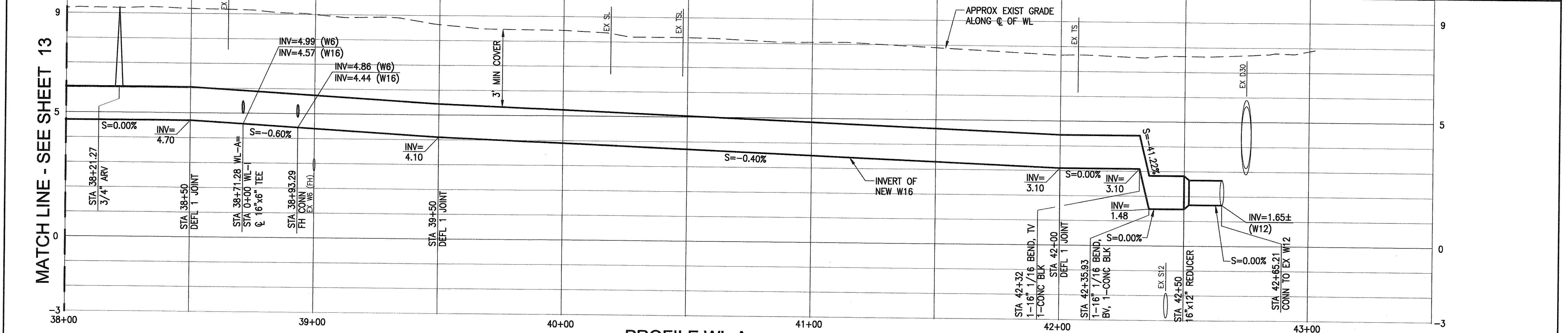
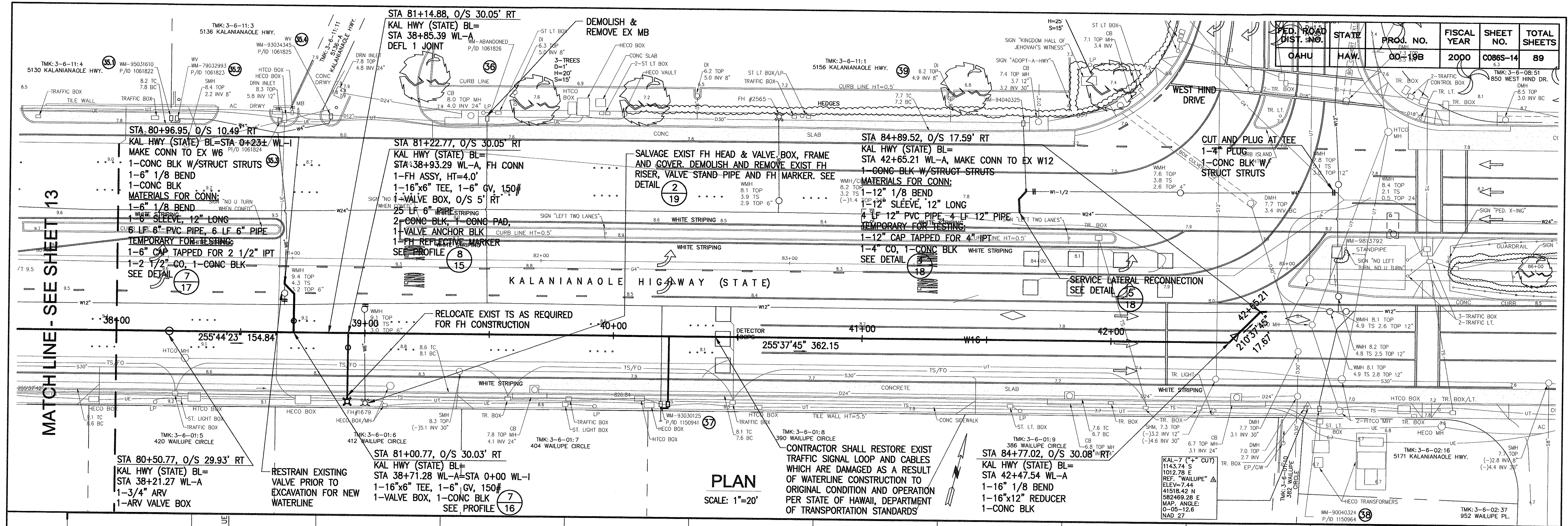
WATER PLAN AND PROFILE

KALANIANA'OLE HIGHWAY
16-INCH WATER MAIN
LAUKAHI STREET TO WEST HIND DRIVE
JOB 00-19B

Scale: As Shown Date: May 2000
SHEET No. 13 OF 19 SHEETS

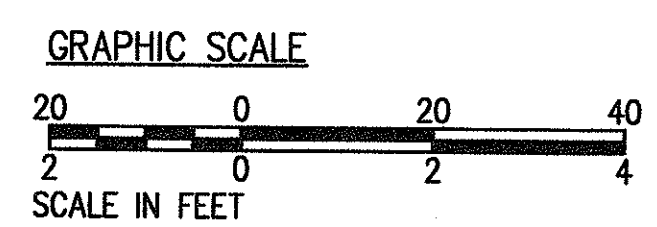
C086S-13

PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00-19B	2000	0086S-14	89



SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

ID#	PREM-ID	M/N	MTR SIZE	LAT SIZE	LAT TYPE	BOX TYPE	CU RECON. TYPE BOX	LATERAL / TYPE BOX
35.1	1061822	95031610	03	D-3	CU	X		E-3/X
35.2	1061823	79032993	03	D-3	CU	X		E-3/X
35.3	1061824	79032994	03	D-3	CU	X		E-3/X
35.4	1061825	93034345	03	D-3	CU	X		E-3/X
36	1061826	0/F 1/17/89	02	C	CU	B		
37	1150941	93030125	03	C	CU	B	1-1/2" X	
39	1061827	94040325	04	C	CU	B	1-1/2"	



APPROVED:

Michael Luke
CHIEF, PLANNING AND ENGINEERING DIVISION
BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

6/14/2000
DATE

Donna M. Williams
CHIEF, WASTEWATER BRANCH, DPP
CITY AND COUNTY OF HONOLULU

5/30/00
DATE

ENGINEERING DESIGN GROUP
1525 YOUNG STREET
HONOLULU, HAWAII 96826

EDGAR K.M. LEE
LICENSED PROFESSIONAL ENGINEER
No. 2150-C
HAWAII U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER PLAN AND PROFILE

KALANIANA'OLE HIGHWAY
16-INCH WATER MAIN
LAUKAHI STREET TO WEST HIND DRIVE
JOB 00-19B

Scale: As Shown Date: May 2000

SHEET No. 14 OF 19 SHEETS

C086S-14