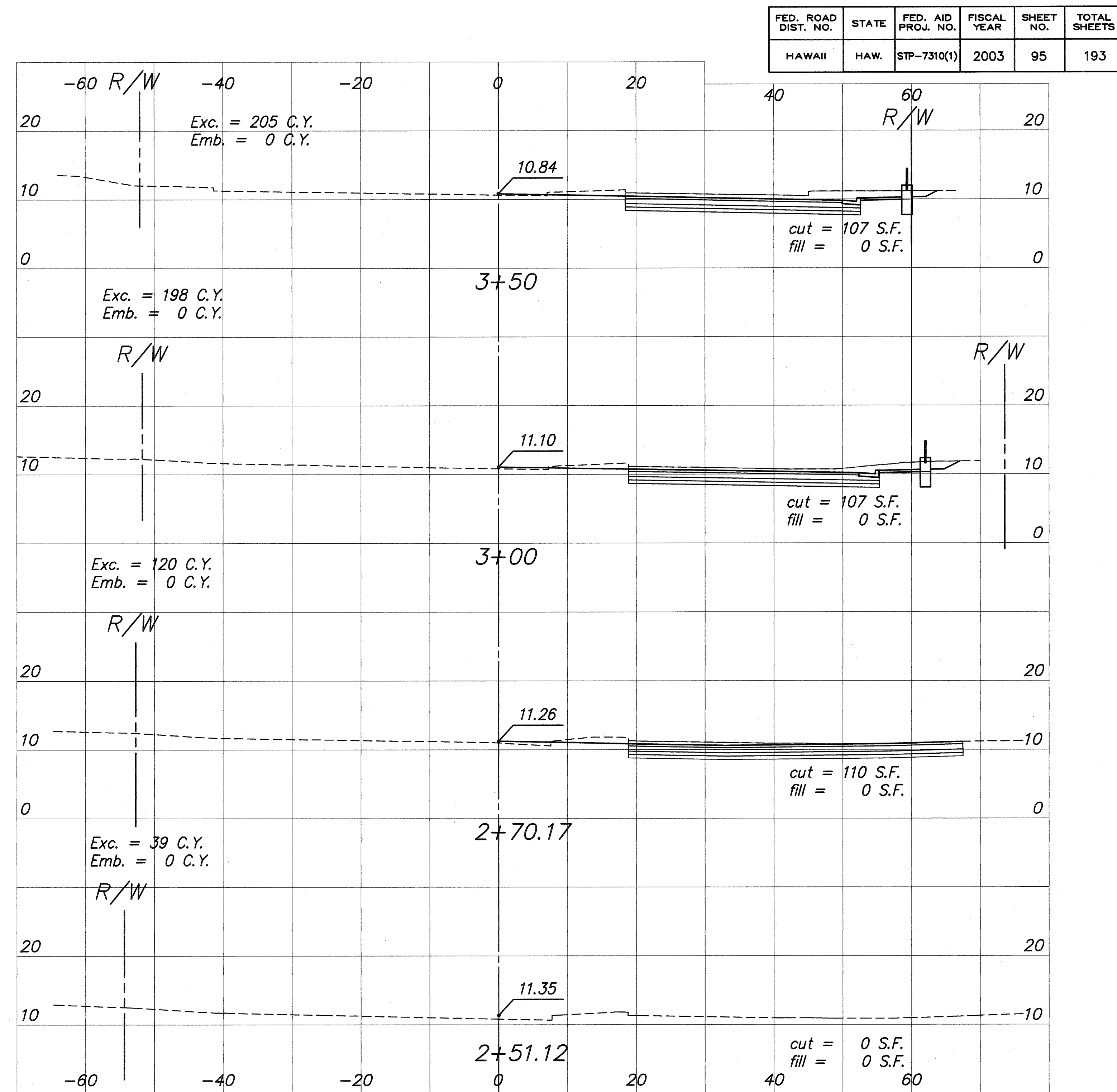
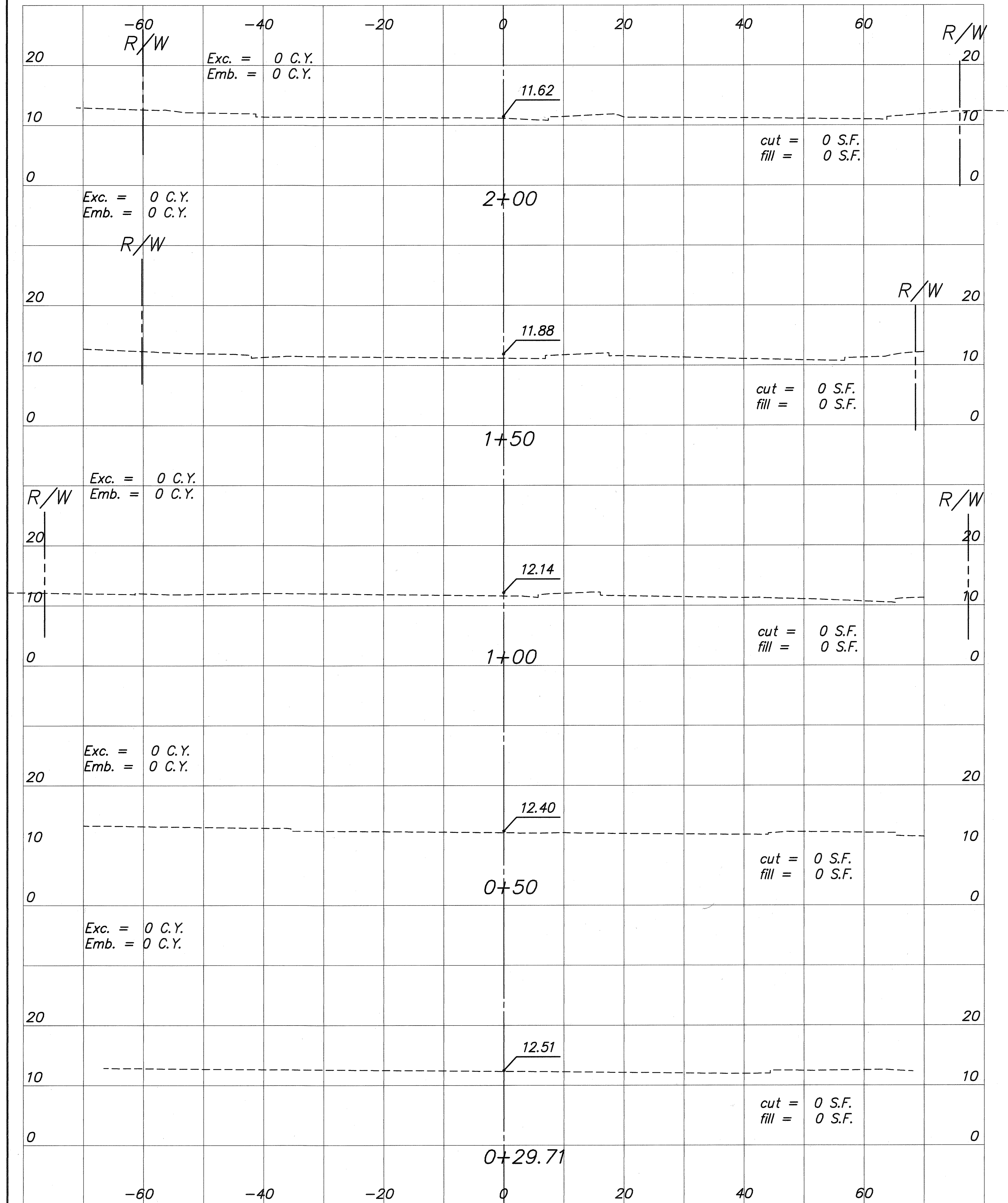


P.M.: STY
CURRENT: OPR: rki
PREV: OPR:
CURRENT TIME: May 09, 2003 - 6:48pm
LAST SAVED BY:
LAST MODIFIED: Fri, 09 May 2003 - 6:44pm

PREFIX: G:\DOT\9601A\ACAD\
FILE: DOT96139G.DWG
BEGIN: 12/01/99
SCALE: 1=1

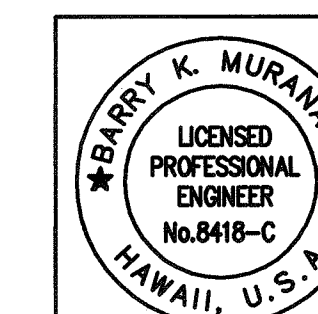
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
QUANTITIES BY	
NO.	



APPROVED:

M. J. [Signature] 7/11/03
Chief, Civil Engineering Branch, D.P.P. Date
(For construction within City R/W only)

10' 0 10' 20'
SCALE: 1" = 10'



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Expiration Date of the License: 04/30/04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROAD CROSS SECTIONS

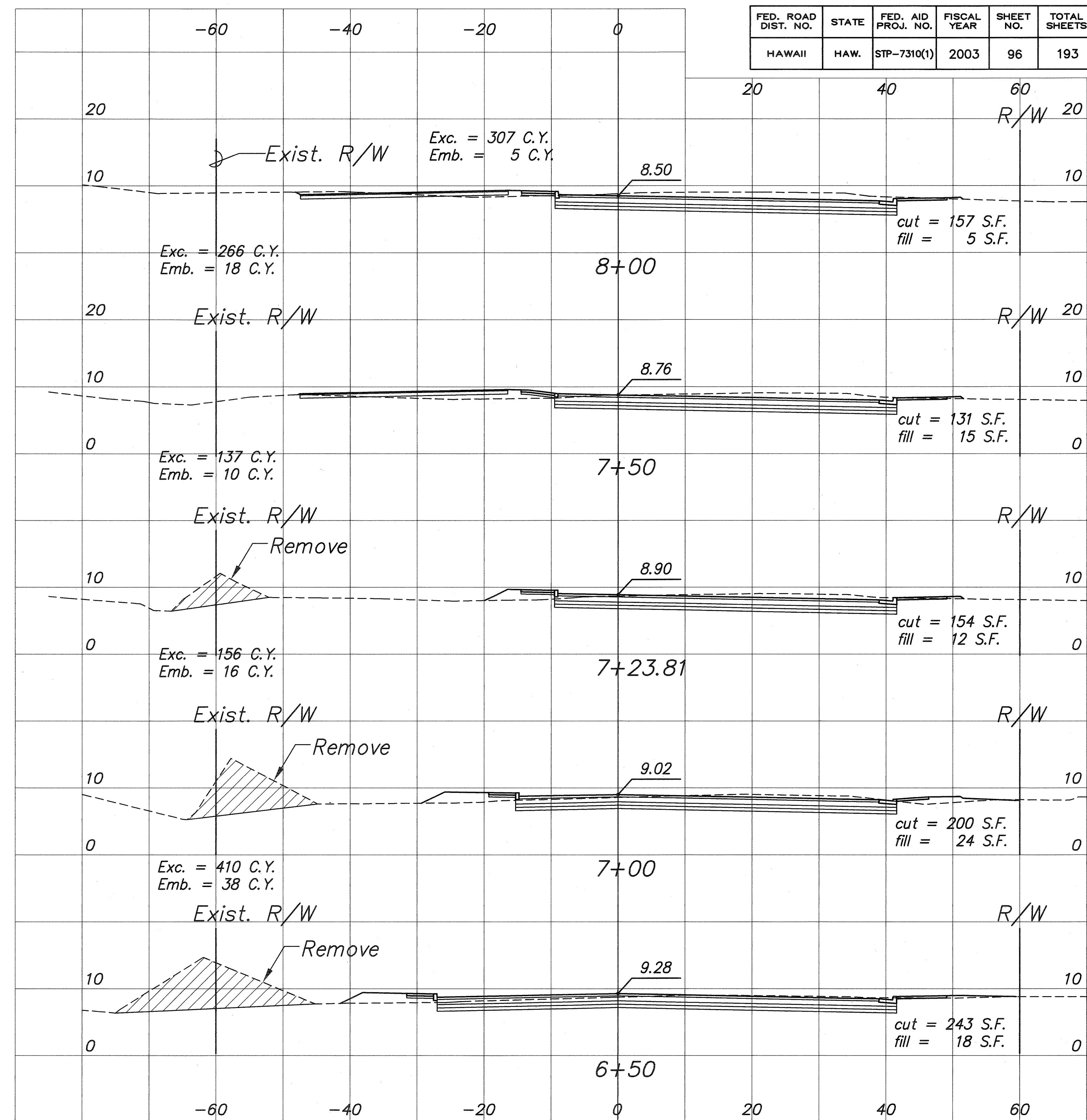
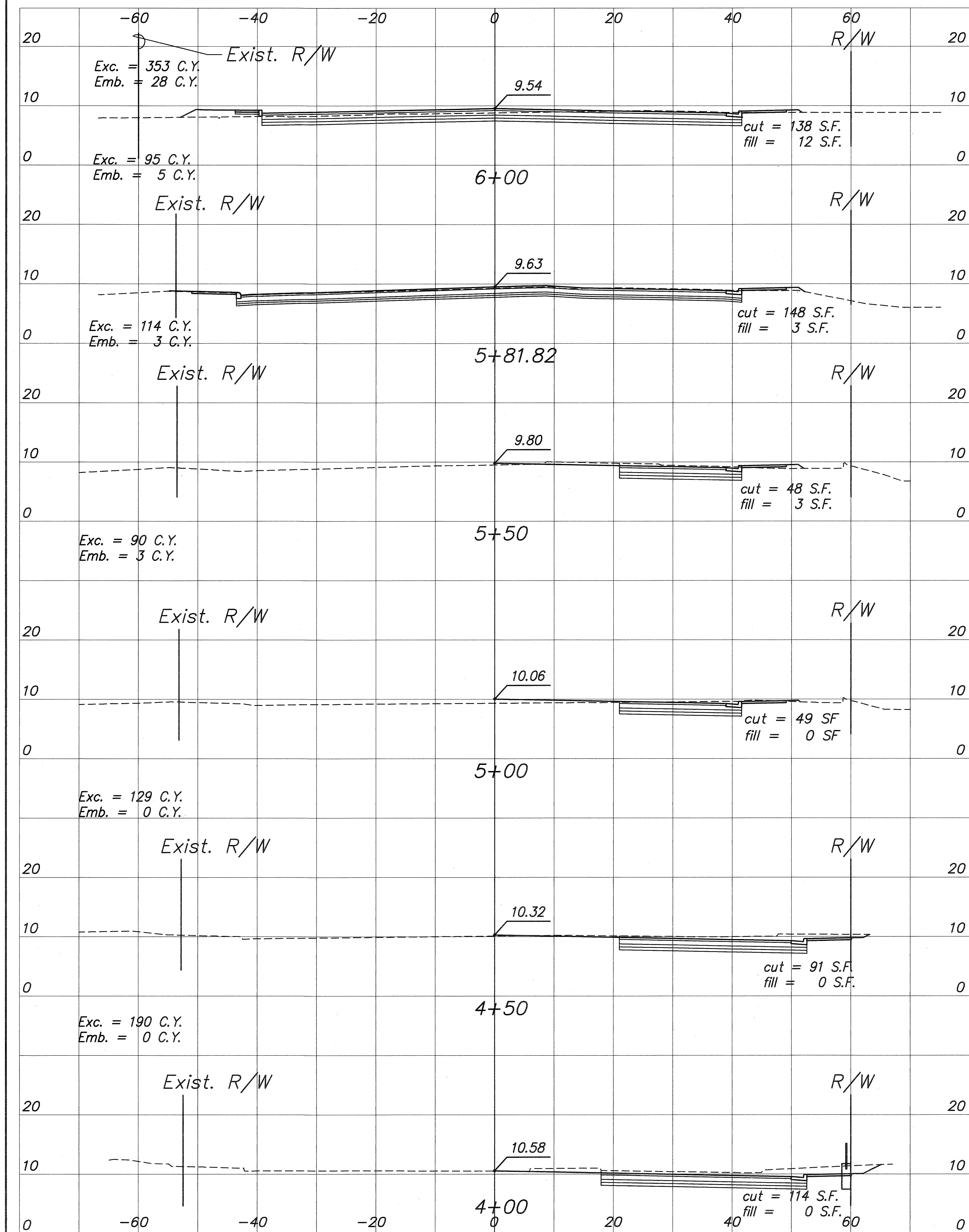
PUULOA ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)

Scale: As shown Date: May 2003

SHEET NO. 95 OF 193 SHEETS

P.M.: STY
CURRENT OPR: mkf
PREV OPR:
CURRENT TIME: May 12, 2003 - 11:01am
LAST SAVED BY:
LAST MODIFIED: Thu, 08 May 2003 - 3:54pm

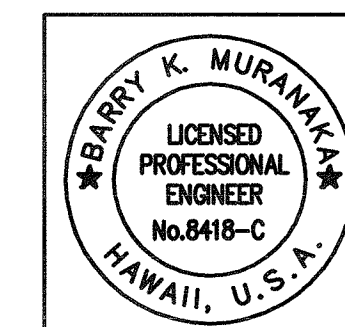
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTEBOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	



APPROVED:

M. J. [Signature] 7/11/03
Chief, Civil Engineering Branch, D.P.P. [Signature] Date
(For construction within City R/W only)

10' 0' 10' 20'
SCALE: 1" = 10'



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Expiration Date of the License: 04/30/04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROAD CROSS SECTIONS

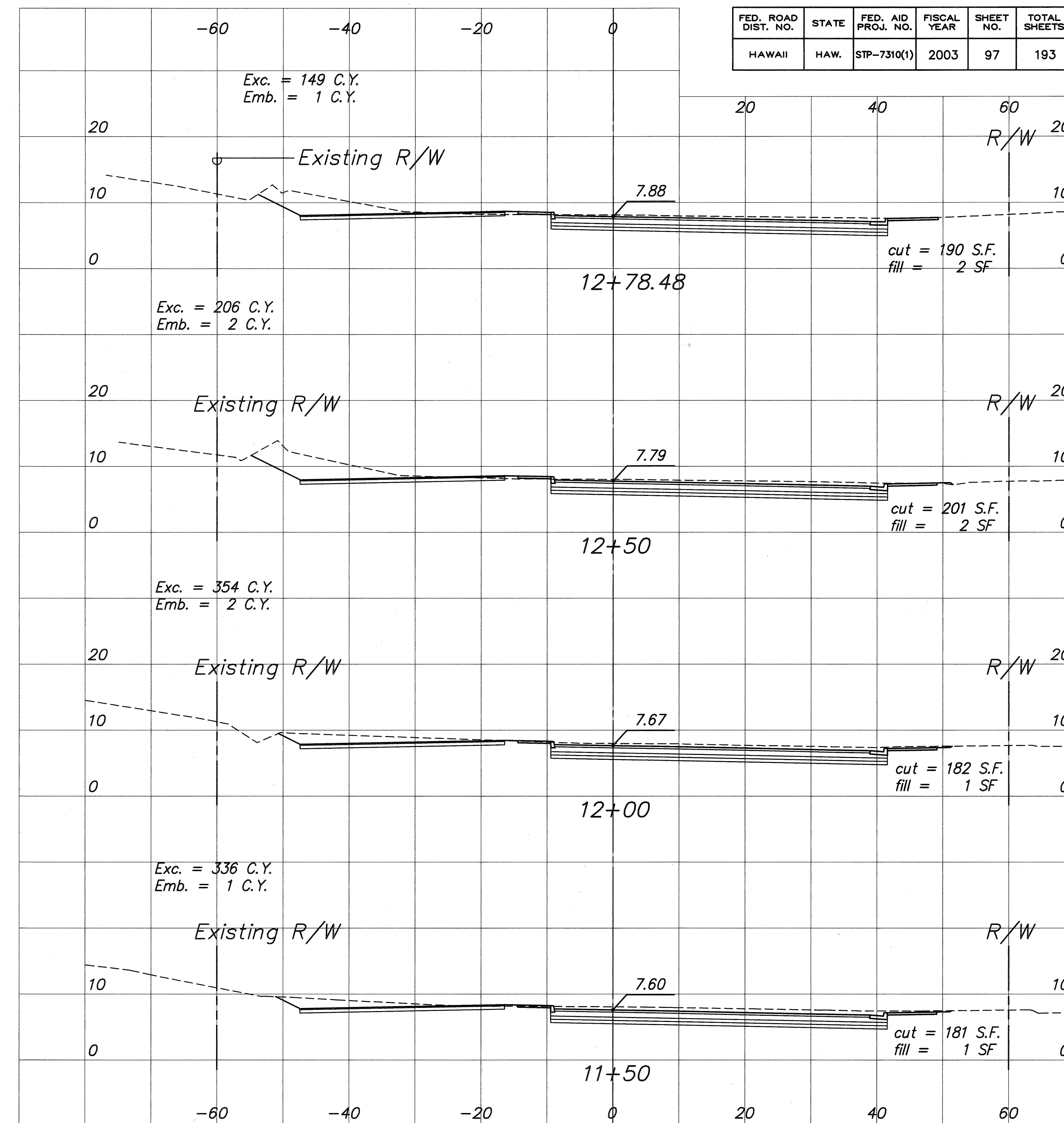
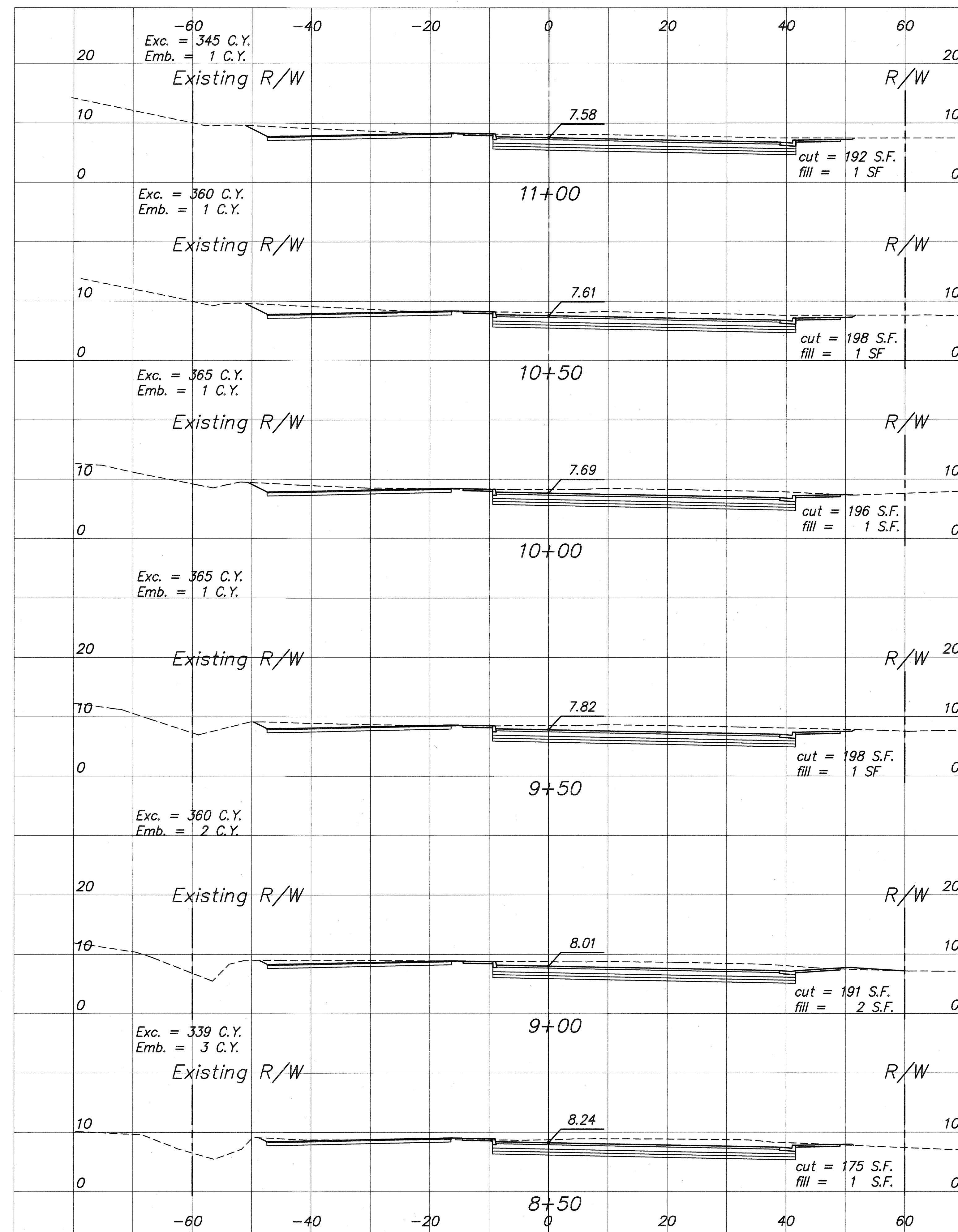
PUULOA ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)

Scale: As shown Date: May 2003

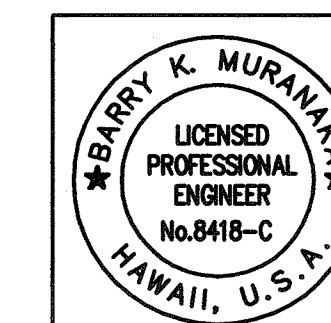
SHEET NO. 96 OF 193 SHEETS

PREFIX: G:\DOT\H9601A\ACAD\ P.M.: STY
 FILE: DOT196141a.DWG CURRENT OPR: mkf
 BEGIN: 12/01/99 PREV. OPR:
 SCALE: 1=1 CURRENT TIME: May 12, 2003 - 11:03am
 LAST SAVED BY: LAST MODIFIED: Thu, 08 May 2003 - 3:53pm

ORIGINAL	DATE
PLAN	
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTED BY	
NO.	



10' 0' 10' 20'
 SCALE: 1" = 10'



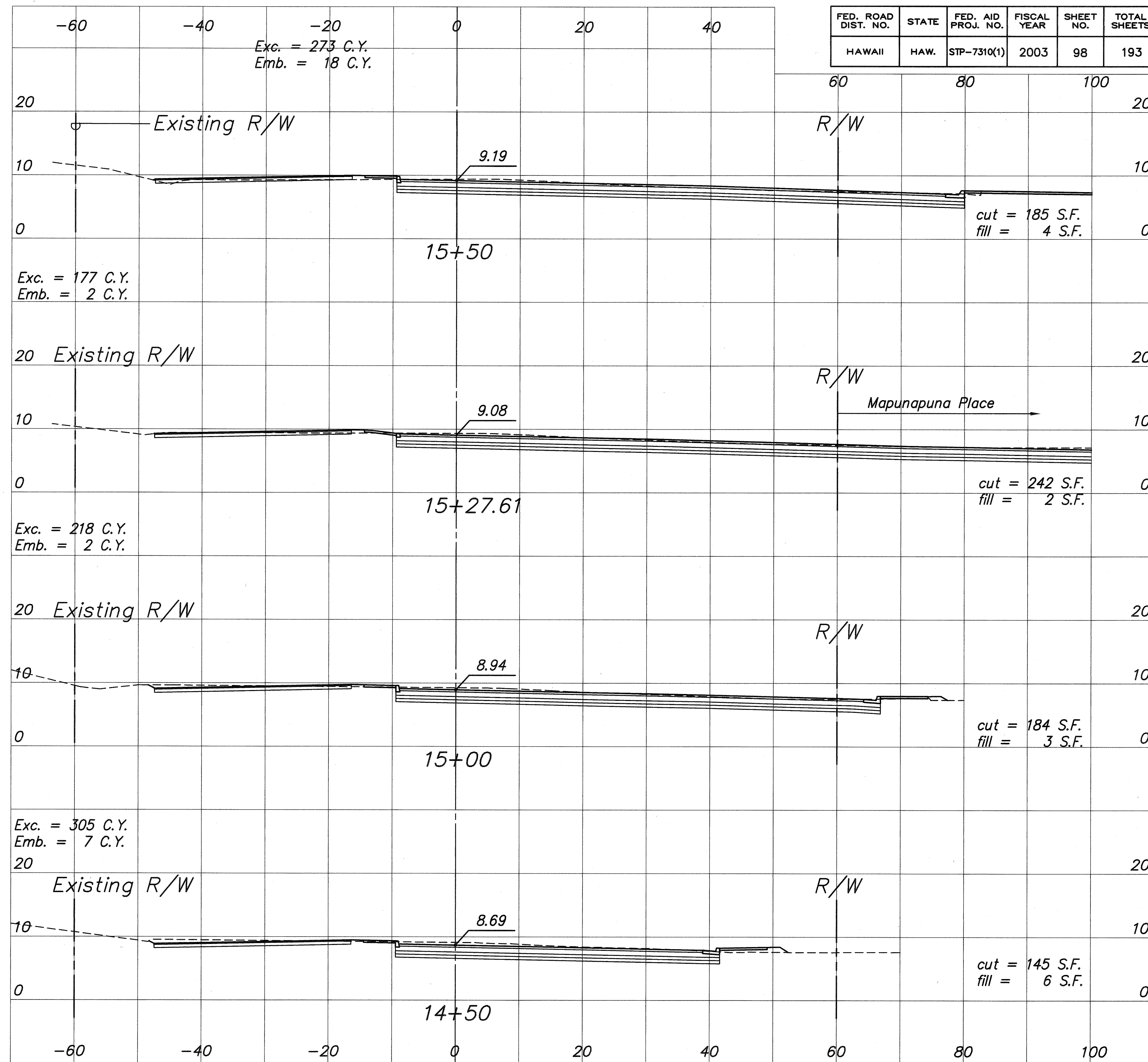
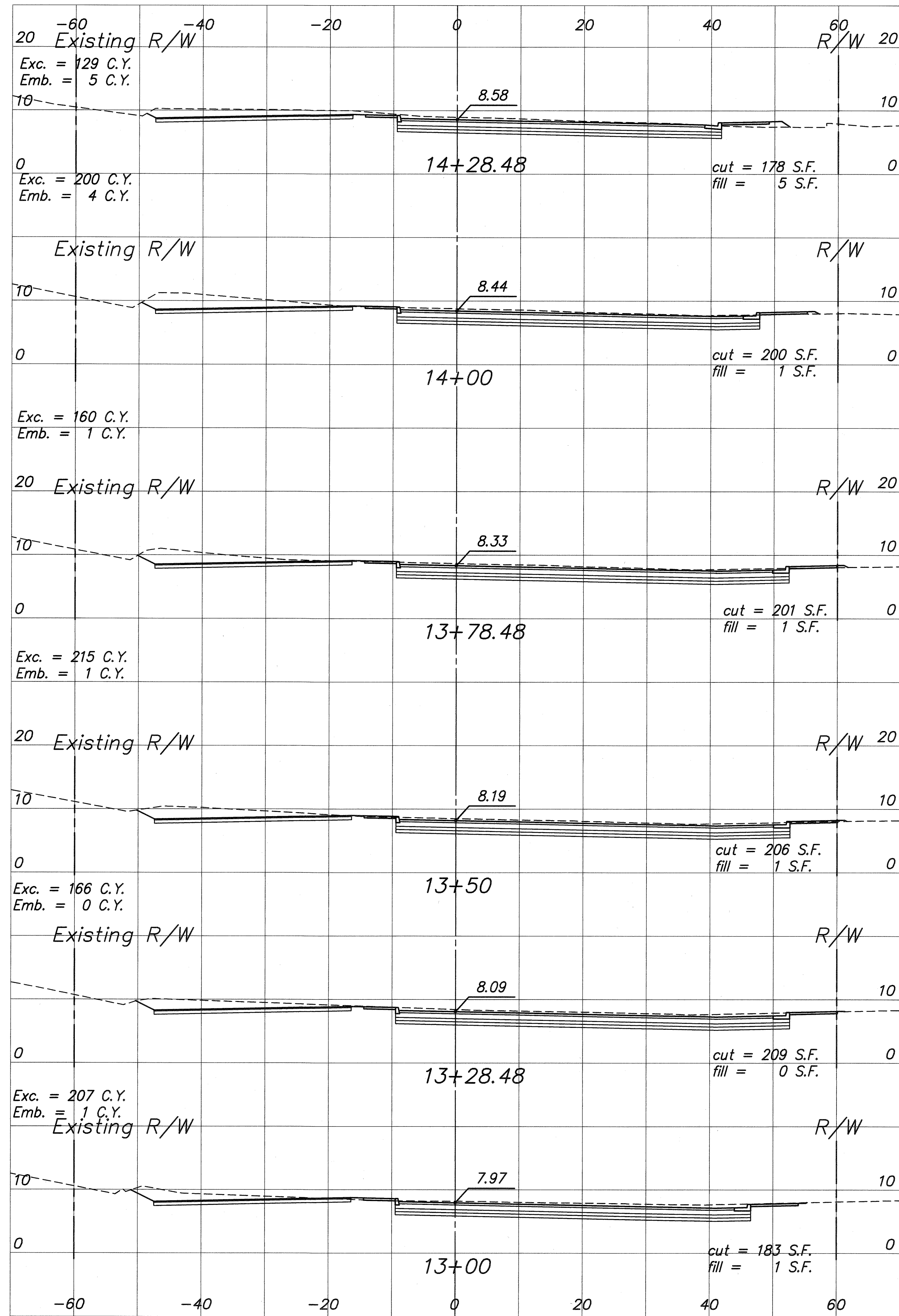
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 Expiration Date of the License: 04/30/04

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROAD CROSS SECTIONS
 PUULOA ROAD IMPROVEMENTS
 Kamehameha Hwy. to Salt Lake Blvd.
 Federal Aid Project No. STP-7310(1)
 Scale: As shown Date: May 2003
 SHEET NO. 97 OF 193 SHEETS

P.M.: STY OFR: mkf
CURRENT
PREV. OFR:
CURRENT TIME: May 12, 2003 - 11:07am
LAST SAVED BY:
LAST MODIFIED: Thu, 08 May 2003 - 3:47pm

PREFIX: G:\DOT\9601A\ACAD\
FILE: DOT1961426.DWG
BEGIN: 12/01/99
SCALE: 1"=1

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTED BY	
NO.	

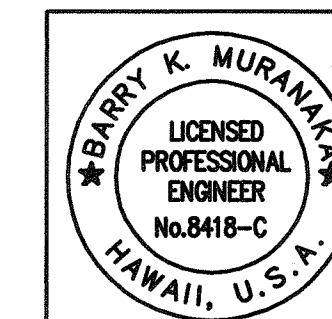


APPROVED:

M. J. [Signature]
Chief, Civil Engineering Branch, D.P.P. [Signature]
(For construction within City R/W only)

7/11/03
Date

10' 0' 10' 20'
SCALE: 1" = 10'



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Expiration Date of the License: 04/30/04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROAD CROSS SECTIONS

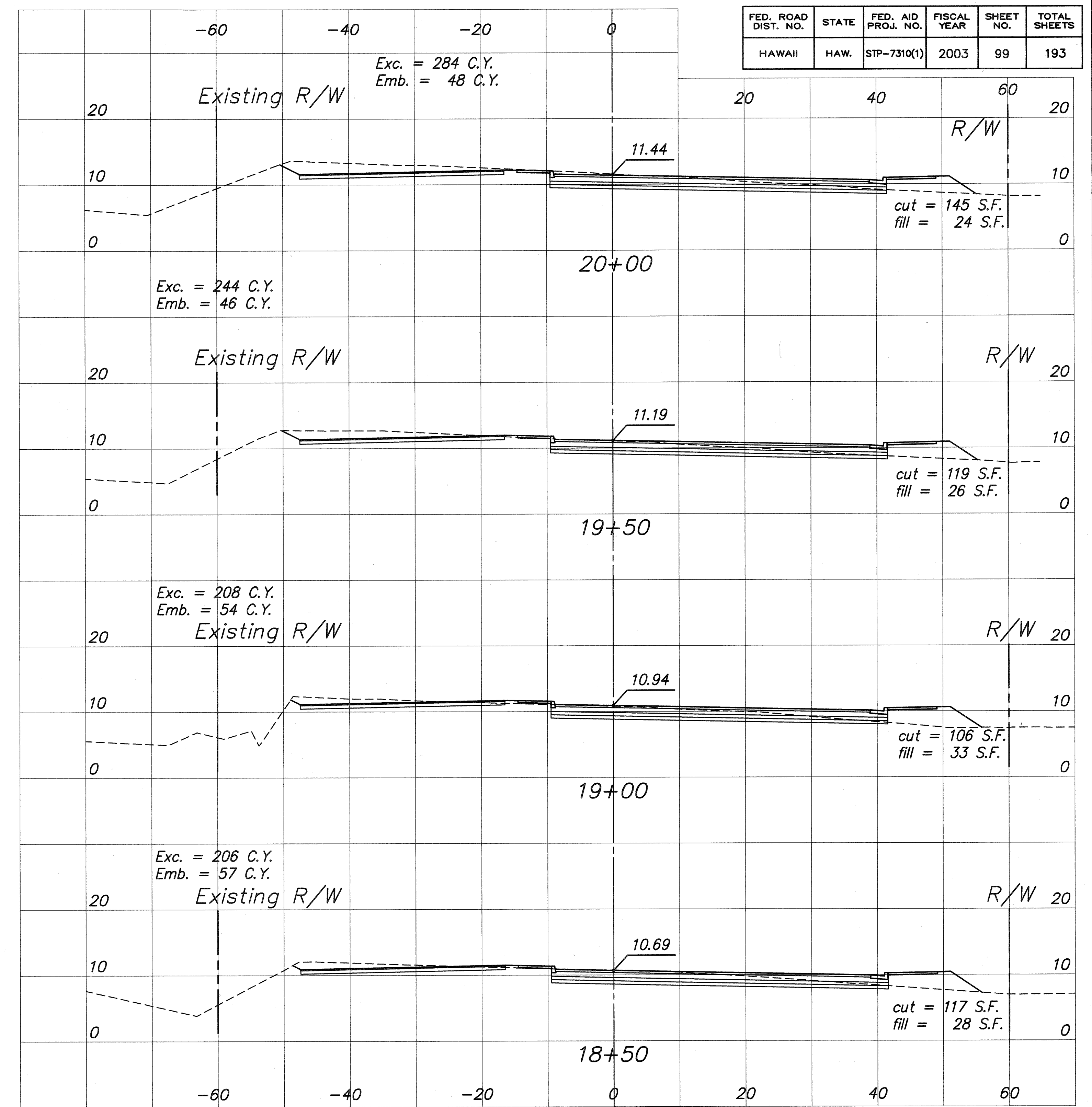
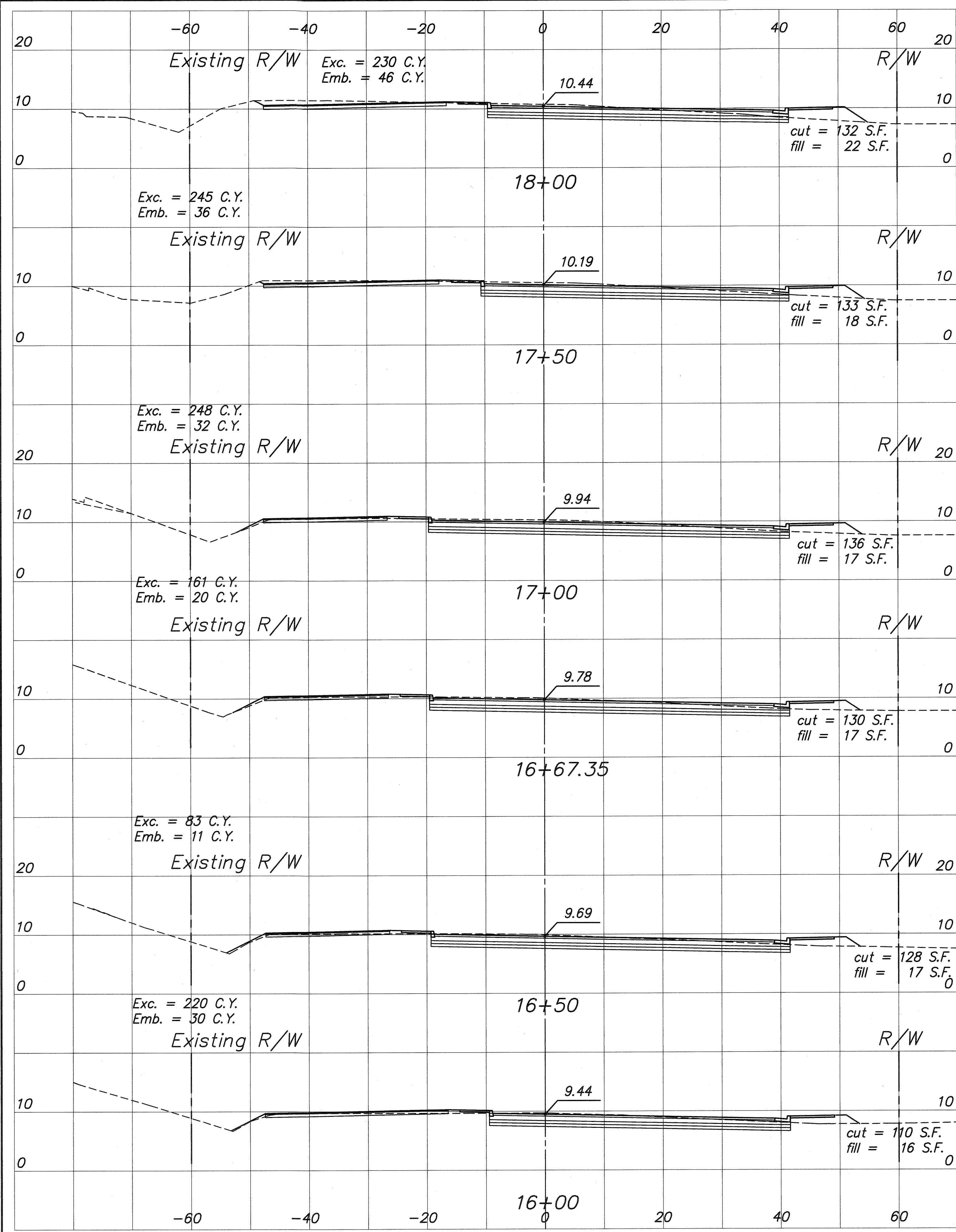
PUULOLO ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)

Scale: As shown Date: May 2003

SHEET NO. 98 OF 193 SHEETS

P.M.: STY
CURRENT OPR: mkf
PREV. OPR:
BEGIN: 12/01/99
SCALE: 1"=1'
LAST MODIFIED: Thu, 08 May 2003 - 3:44pm

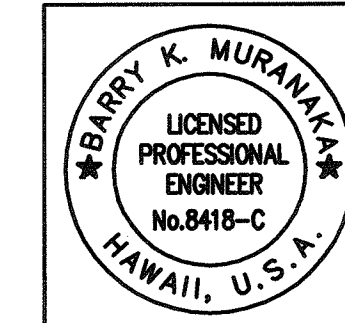
SURVEY PLANNED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTEBOOK	
No.	



APPROVED:

M. J. [Signature] 7/11/03 Date
Chief, Civil Engineering Branch, D.P.P. (For construction within City R/W only)

10' 0' 10' 20'
SCALE: 1" = 10'



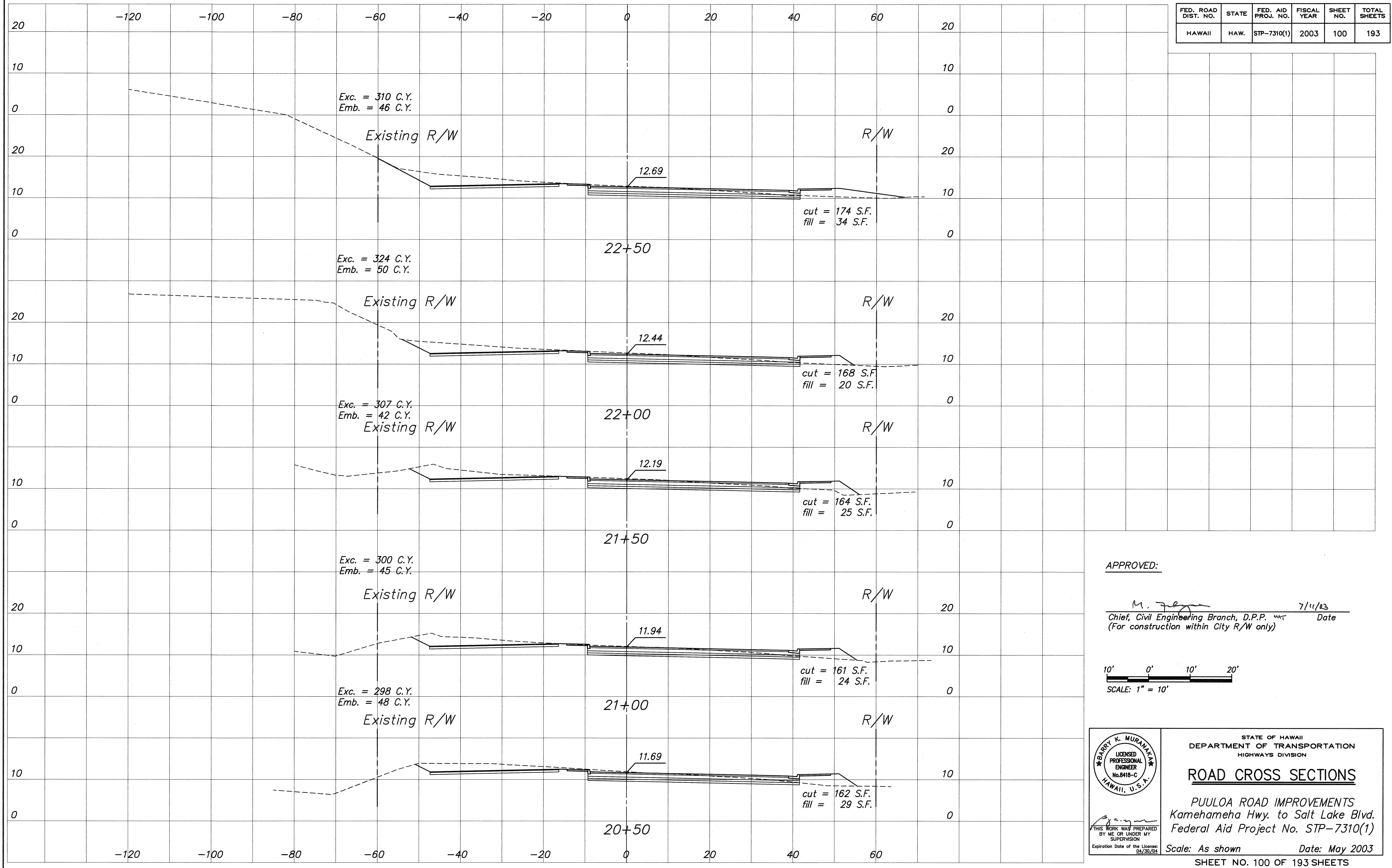
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Expiration Date of the License: 04/30/04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROAD CROSS SECTIONS
PUULOA ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)
Scale: As shown Date: May 2003
SHEET NO. 99 OF 193 SHEETS

P.M.: STY
CURRENT OPR: mkf
PREV OPR:
CURRENT TIME: May 12, 2003 - 11:08am
LAST SAVED BY:
LAST MODIFIED: Sat, 10 May 2003 - 1:30pm

PREF: G:\DOT\9601A\ACAD\
FILE: DOT96144.ctb
BEGIN: 12/01/99
SCALE: 1"=1

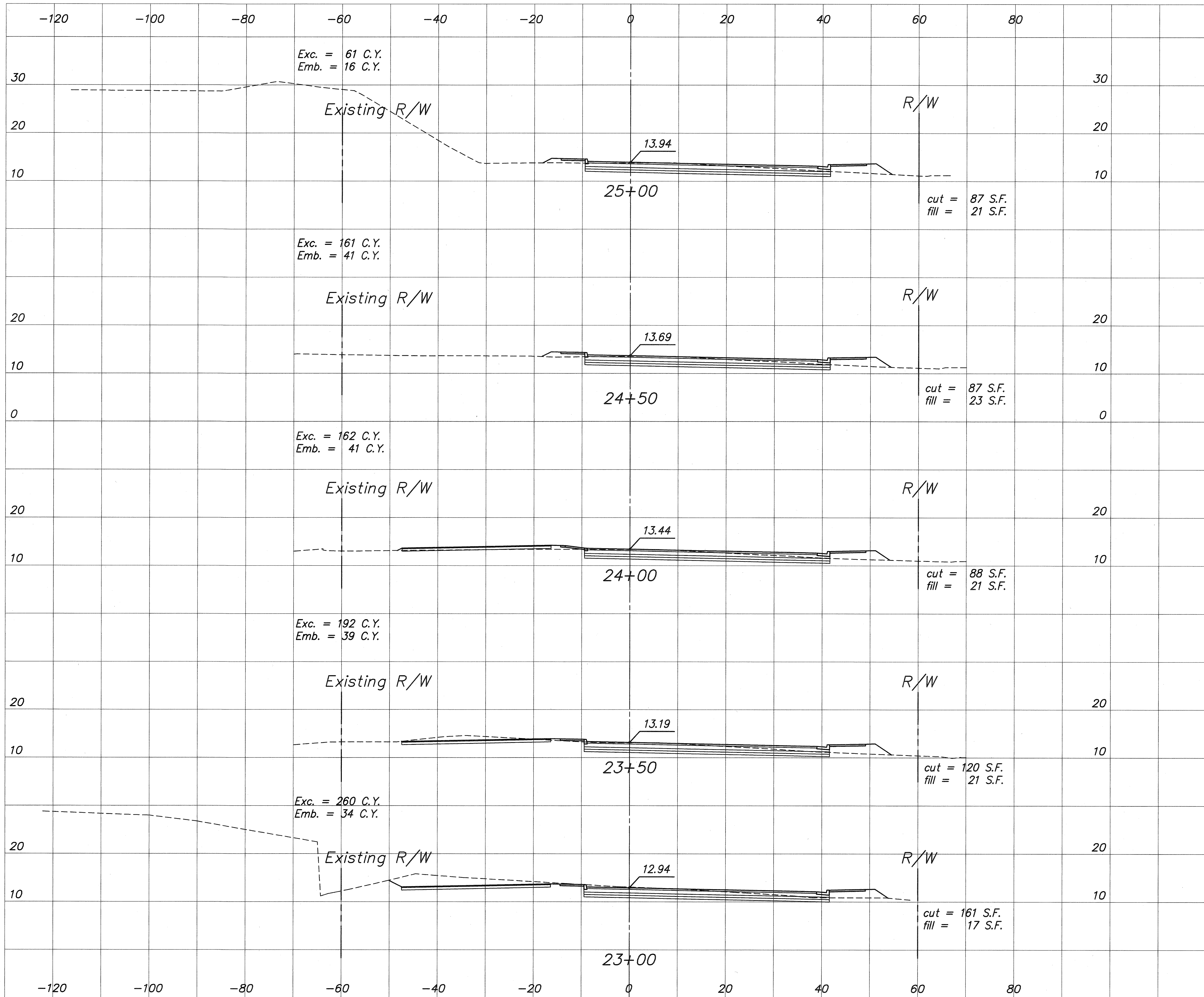
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BY	DESIGNED BY	
QUANTITIES BY	CHECKED BY	
No.		



P.M.: STY
CURRENT OPR: mkf
PREV OPR:
CURRENT TIME: May 12, 2003 - 11:10am
LAST SAVED BY:
LAST MODIFIED: Thu, 08 May 2003 - 3:43pm

PREF: G:\DOT\9601A\ACAD\
FILE: DOT96144r2.DWG
BEGIN: 12/01/99
SCALE: 1"=1

ORIGINAL	DATE
PLAN	
NOTED	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

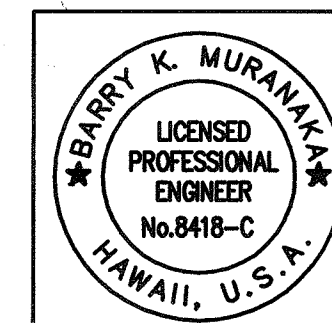


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-7310(1)	2003	101	193

APPROVED:

M. J. [Signature] 7/11/03
Chief, Civil Engineering Branch, D.P.P. WAT Date
(For construction within City R/W only)

10' 0' 10' 20'
SCALE: 1" = 10'



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROAD CROSS SECTIONS

PUULOA ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)

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Expiration Date of the License: 04/30/04

Scale: As shown Date: May 2003

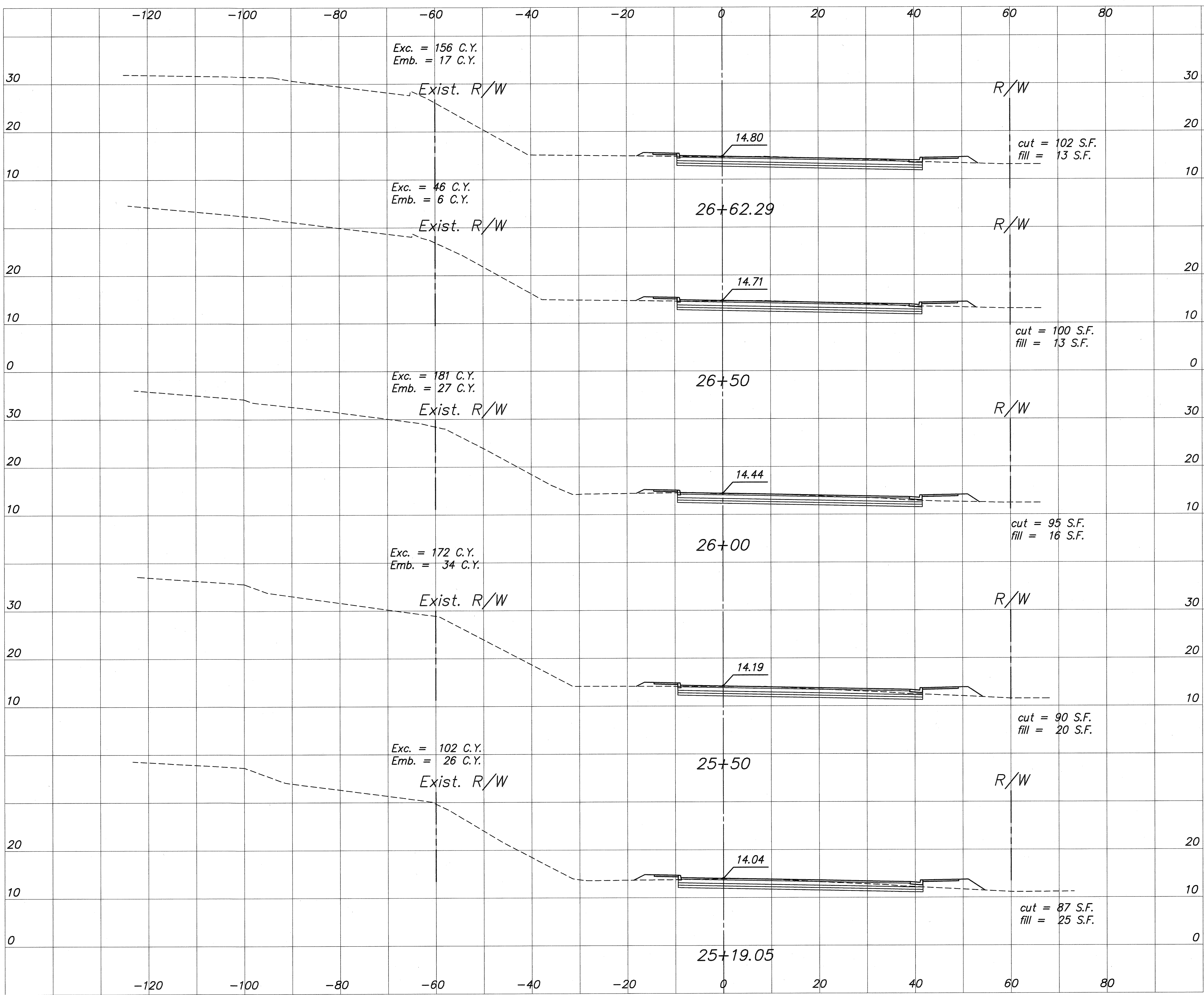
SHEET NO. 101 OF 193 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-7310(1)	2003	102	193

P.M.: STY
CURRENT OPR: mkf
PREV. OPR:
CURRENT TIME: May 12, 2003 - 11:10am
LAST SAVED BY:
LAST MODIFIED: Mon, 23 Dec 2002 - 8:04am

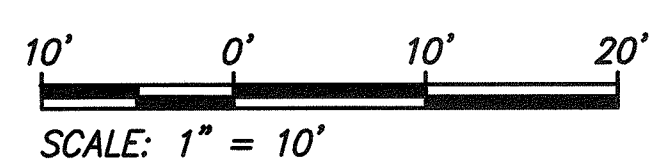
PREFIX: G:\DOT\H9601A\ACAD\
FILE: DOT96145r1a.dwg
BEGIN: 12/01/99
SCALE: 1"=1

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	



APPROVED:

M. J. [Signature] 7/11/03
Chief, Civil Engineering Branch, D.P.P. ^{WRT} Date
(For construction within City R/W only)



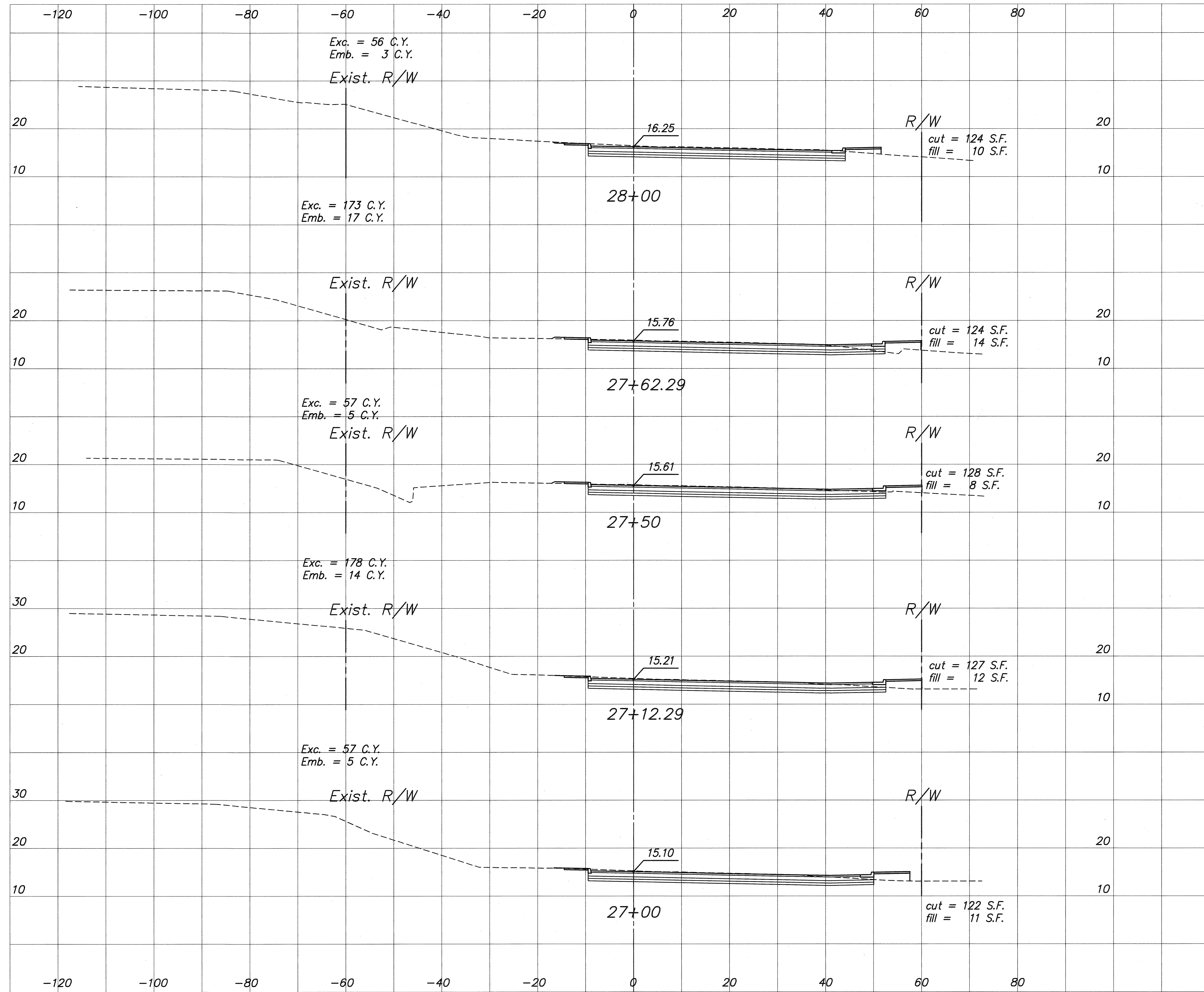
THIS WORK WAS PREPARED
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Expiration Date of the License: 04/30/04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROAD CROSS SECTIONS
PUULOA ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)
Scale: As shown Date: May 2003
SHEET NO. 102 OF 193 SHEETS

P.M.: STY
CURRENT OPR: mkf
PREV. OPR:
CURRENT TIME: May 12, 2003 - 11:12am
LAST SAVED BY:
LAST MODIFIED: Mon, 23 Dec 2002 - 8:04am

PREF: C:\DOT\H9601A\ACAD\
FILE: DOT96145-2a.DWG
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SCALE: 1"=1

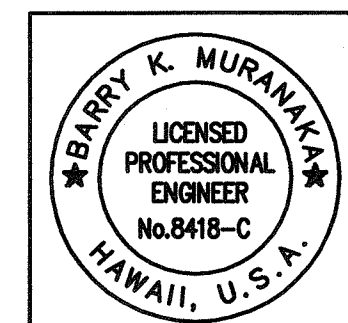
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTEBOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	



APPROVED:

M. J. [Signature] 7/11/03
Chief, Civil Engineering Branch, D.P.P. [Signature] Date
(For construction within City Exist. R/W only)

10' 0' 10' 20'
SCALE: 1" = 10'



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SUPERVISION
Expiration Date of the License: 04/30/04

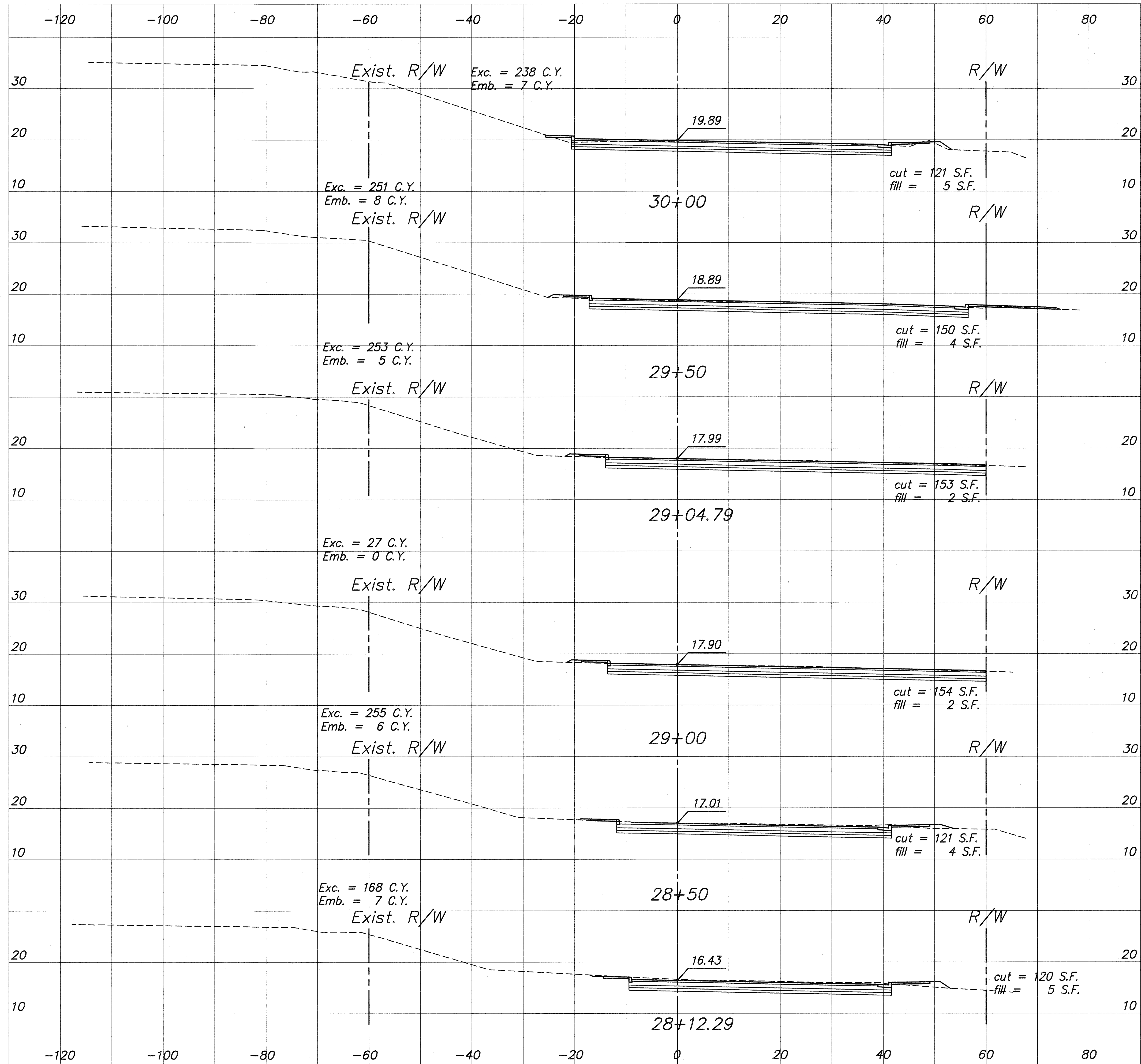
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROAD CROSS SECTIONS
PUULOA ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)
Scale: As shown Date: May 2003
SHEET NO. 103 OF 193 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-7310(1)	2003	103	193

P.M.: STY
CURRENT: OPR: mkf
PREV: OPR: May 12, 2003 - 11:13am
CURRENT TIME: May 12, 2003 - 11:13am
LAST SAVED BY:
LAST MODIFIED: Mon, 23 Dec 2002 - 8:04am

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BEGN: 12/01/99
SCALE: 1"=1'

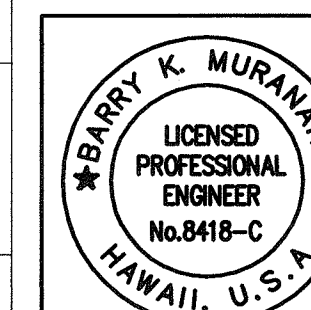
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	
NOTED	DESIGNED BY	
NOTED	QUANTITIES BY	
NOTED	CHECKED BY	



APPROVED:

M. J. [Signature] 7/11/03
Chief, Civil Engineering Branch, D.P.P. [Signature]
(For construction within City R/W only) Date

10' 0' 10' 20'
SCALE: 1" = 10'



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Expiration Date of the License: 04/30/04

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-7310(1)	2003	104	193

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROAD CROSS SECTIONS

PUULOA ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)

Scale: As shown Date: May 2003

SHEET NO. 104 OF 193 SHEETS

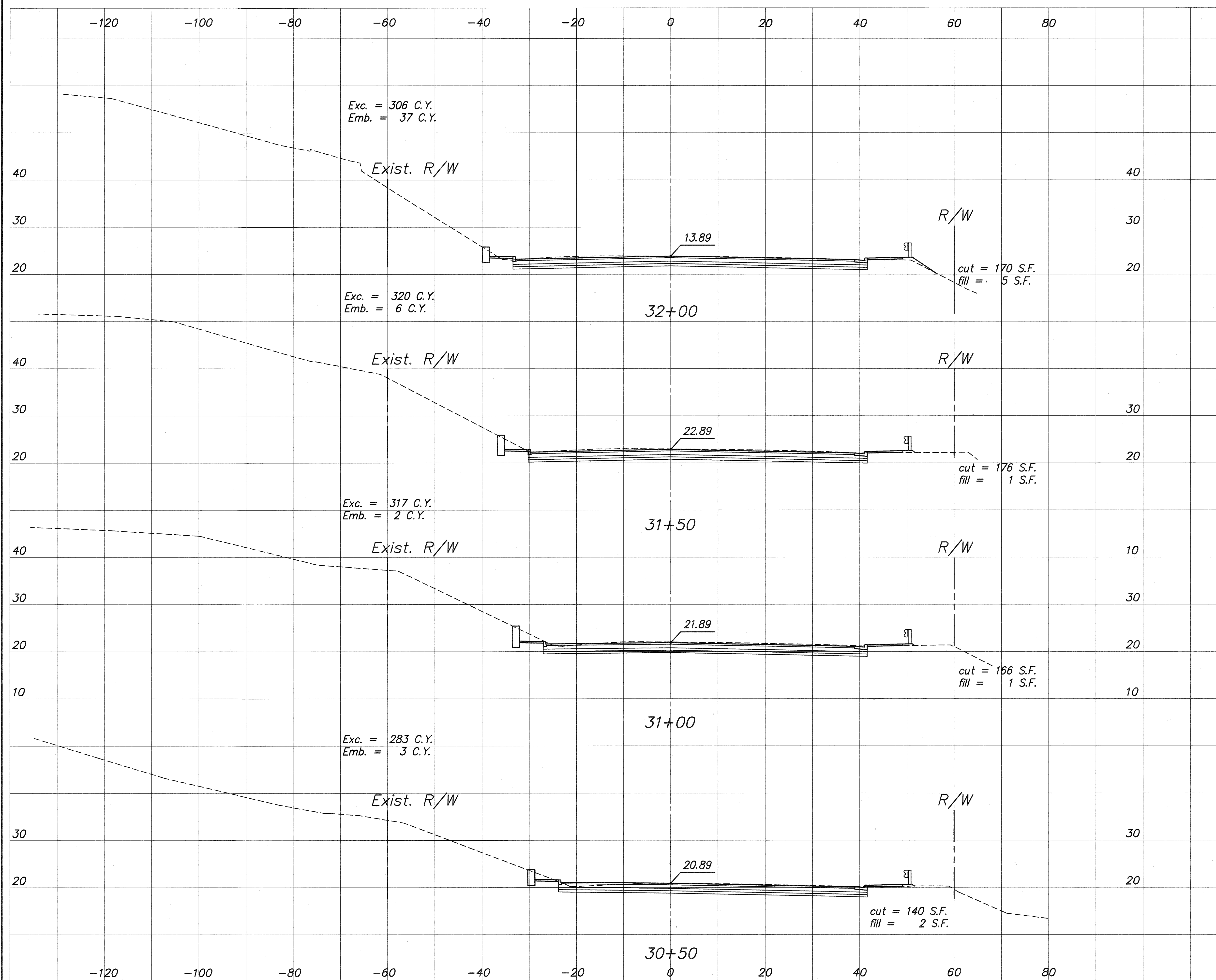
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PREFIX: G:\DOTH9601A\ACAD\
FILE: DOT96146r2a.DWG
P.M.: STY
CURRENT OPR: mfk
PREV OPR:
CURRENT TIME: May
LAST SAVED BY:
LAST MODIFIED: Mon, 2
SCALE: 1=1
BEGIN: 12/01/99

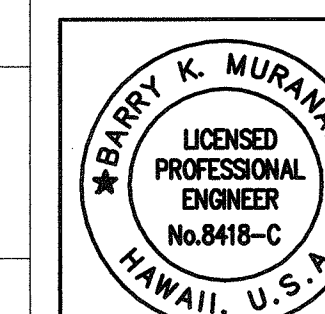
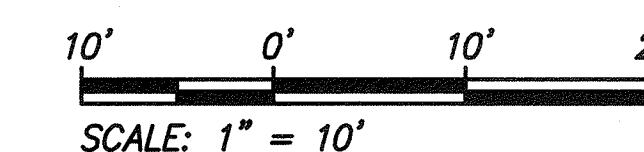
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PREFIX: G:\DOTH9601A\ACAD\
FILE: DOT96146r2a.DWG
BEGIN: 12/01/99
SCALE: 1=1

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY _____	_____
	TRACED BY _____	_____
NOTEBOOK	DESIGNED BY _____	_____
	QUANTITIES BY _____	_____



M. [Signature] 7/11/03
Chief, Civil Engineering Branch, D.P.P. [Signature] Date
(For construction within City R/W only)



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Expiration Date of the License: 04/2011

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

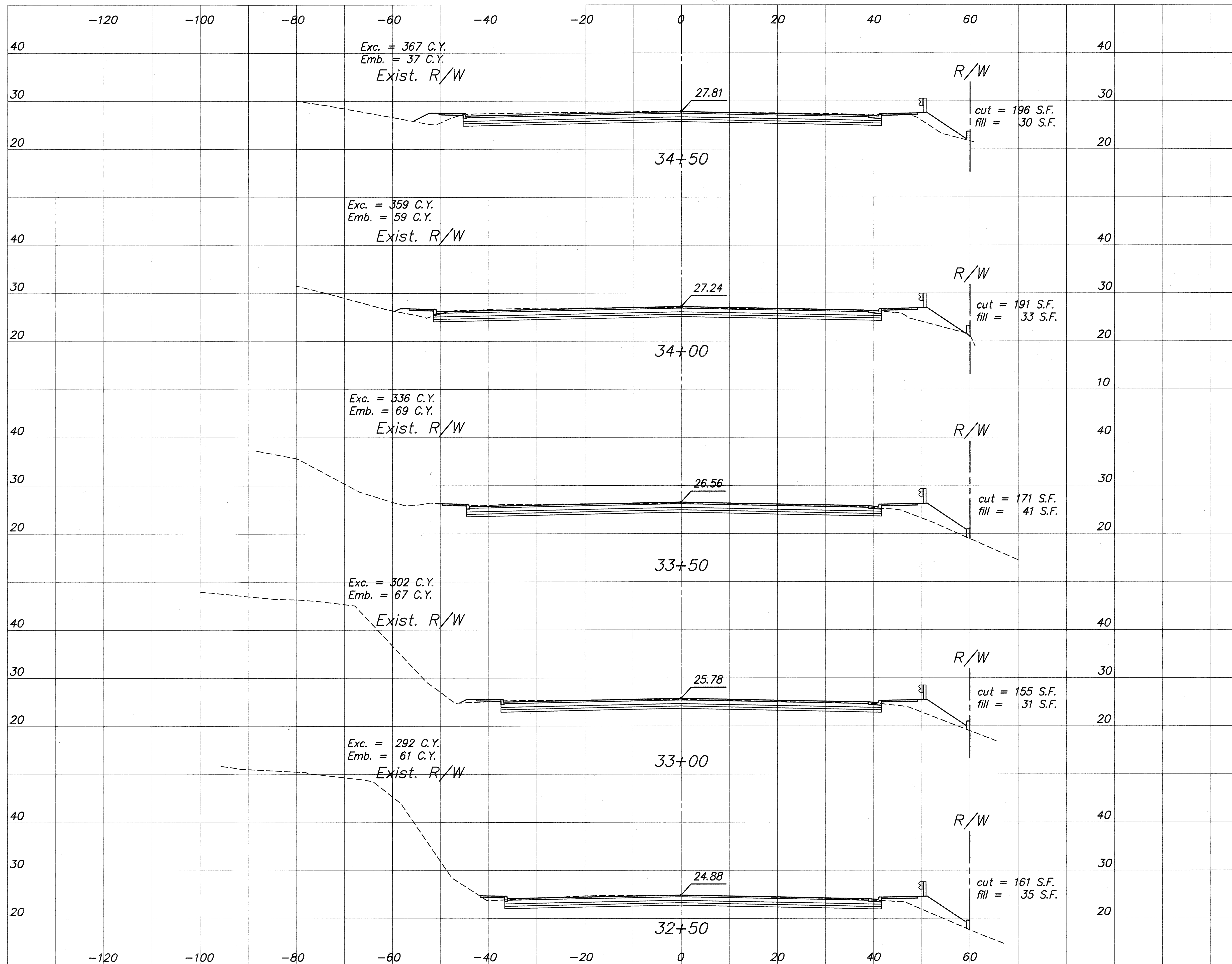
ROAD CROSS SECTIONS

PUULOA ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)

Scale: As shown Date: May 2003

SHEET NO. 105 OF 193 SHEETS

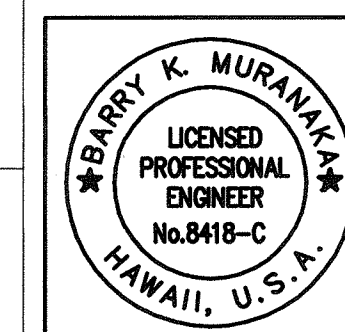
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-7310(1)	2003	106	193



APPROVED:

M. [Signature] 7/11/03
 Chief, Civil Engineering Branch, D.P.P. *WT* Date
 (For construction within City R/W only)

10' 0' 10' 20'
 SCALE: 1" = 10'



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROAD CROSS SECTIONS

PUULOA ROAD IMPROVEMENTS
 Kamehameha Hwy. to Salt Lake Blvd.
 Federal Aid Project No. STP-7310(1)

Scale: As shown Date: May 2003
 SHEET NO. 106 OF 193 SHEETS

P.M.: STY
 CURRENT OPR: mkf
 PREVIOUS OPR:
 BEGIN: 12/01/99
 CURRENT TIME: May 12, 2003 - 11:38am
 LAST SAVED BY:
 LAST MODIFIED: Mon, 23 Dec 2002 - 8:05am

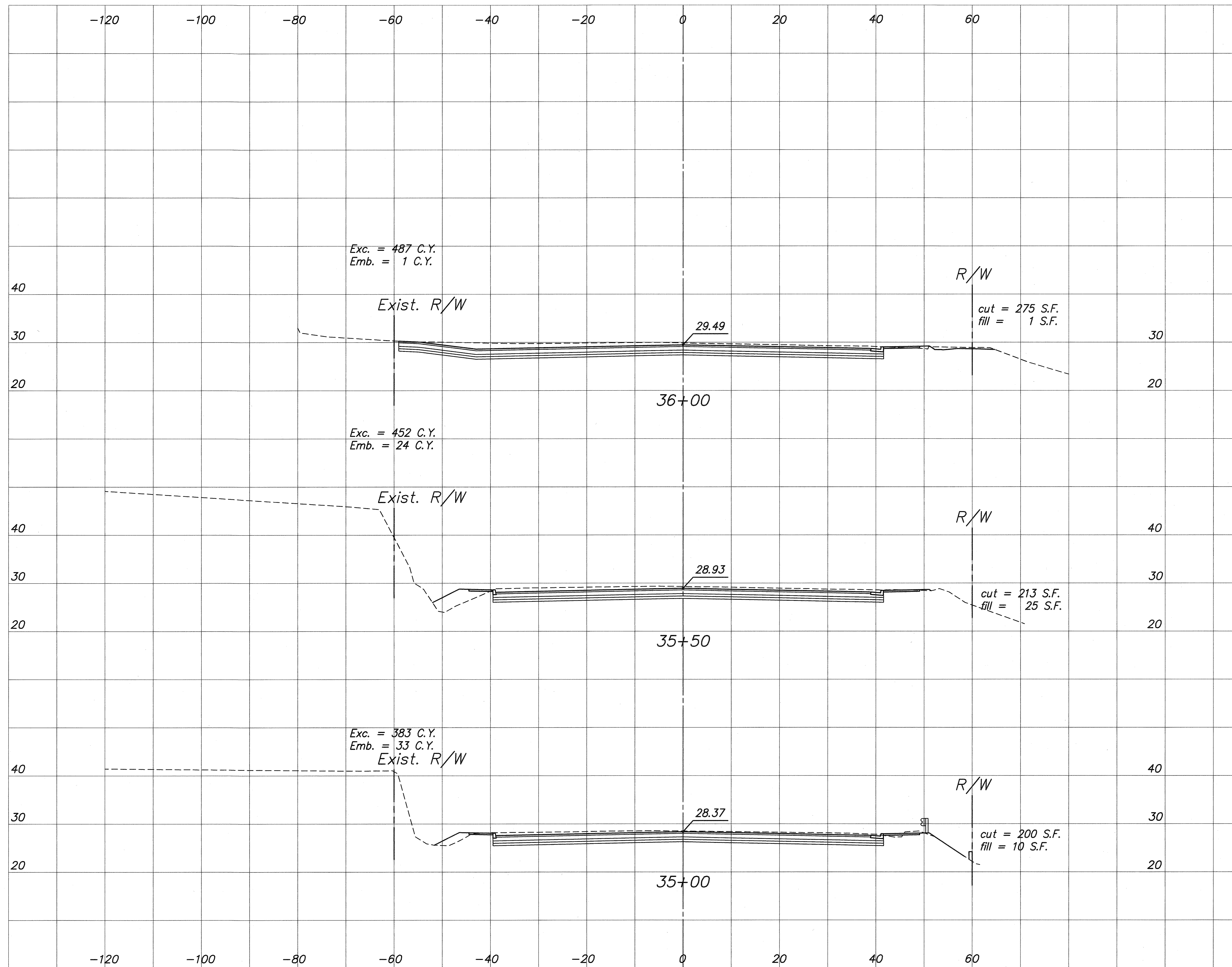
PREFIX: G:\DOT\9601A\ACAD\
 FILE: DOT961471a.DWG
 SCALE: 1"=1

DATE	REVIEWED BY	DESIGNED BY	QUANTITIES BY	CHECKED BY

P.M.: STY
CURRENT OPR: mkf
PREV OPR:
CURRENT TIME: May 12, 2003 - 11:18am
LAST SAVED BY:
LAST MODIFIED: Mon, 23 Dec 2002 - 8:05am

ORIGINAL	DATE
PLAN	
DESIGNED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTED	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-7310(1)	2003	107	193



APPROVED:

M. J. [Signature] 7/11/03
Chief, Civil Engineering Branch, D.P.P. [Signature] Date
(For construction within City R/W only)

10' 0' 10' 20'
SCALE: 1" = 10'



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Expiration Date of the License: 04/30/04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROAD CROSS SECTIONS

PUULOLO ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)

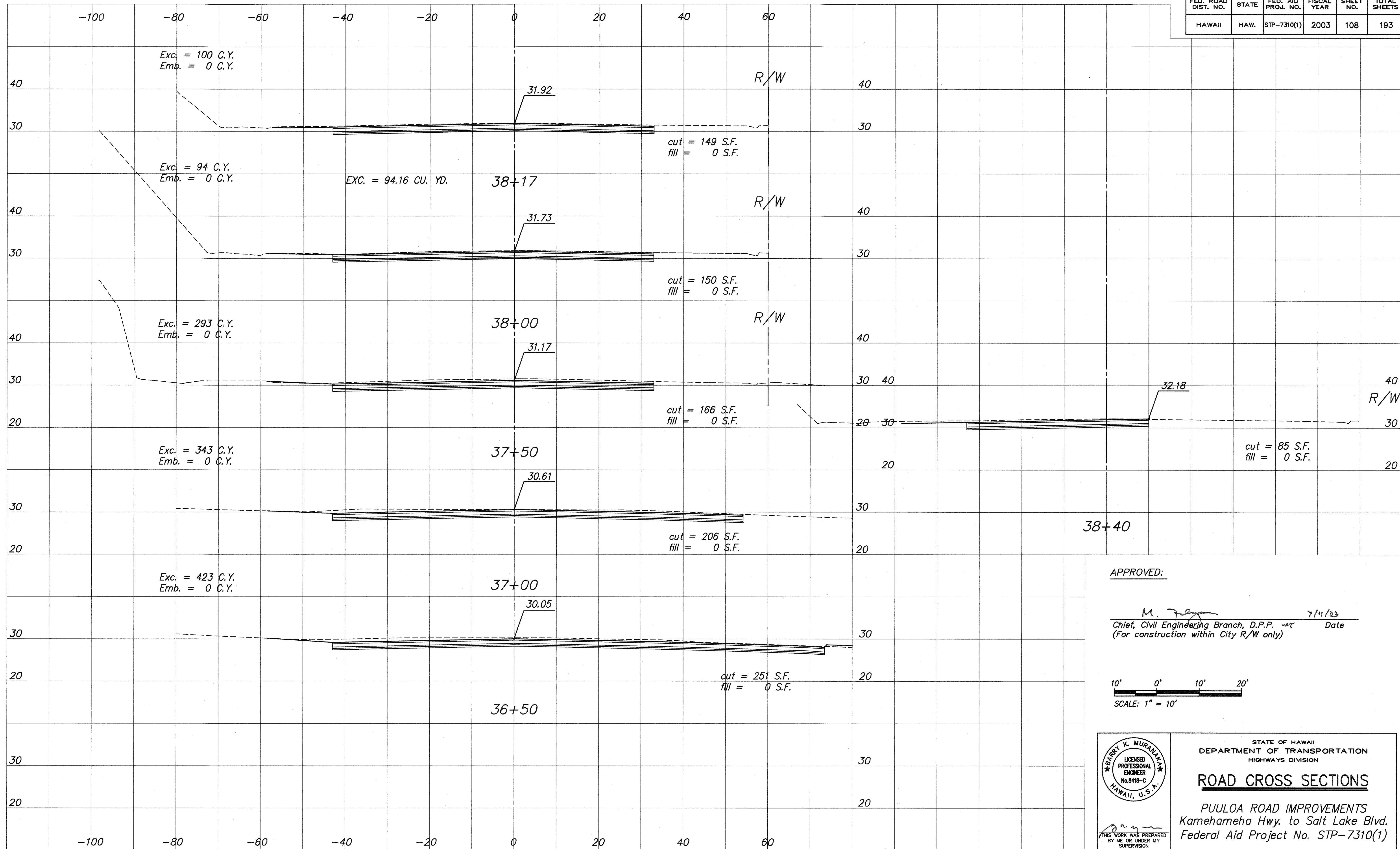
Scale: As shown Date: May 2003

SHEET NO. 107 OF 193 SHEETS

P.M.: STY
CURRENT OPR: mkf
PREV OPR: May 12, 2003 - 11:18am
CURRENT TIME: May 12, 2003 - 11:18am
LAST SAVED BY:
LAST MODIFIED: Fri, 14 Feb 2003 - 5:23pm

PREF: G:\DOT\9601A\ACAD\
FILE: DOT961473.dwg
BEGIN: 12/01/99
SCALE: 1"=1'

ORIGINAL PLAN NO.	SURVEY PLOT BY	DATE
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	



APPROVED:

M. J. [Signature] 7/11/23
Chief, Civil Engineering Branch, D.P.P. *mt* Date
(For construction within City R/W only)

10' 0' 10' 20'
SCALE: 1" = 10'



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Expiration Date of the License: 04/30/24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROAD CROSS SECTIONS

PUULOA ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)

Scale: As shown Date: May 2003

SHEET NO. 108 OF 193 SHEETS

P.M.: STY
CURRENT: OPR: mkf
PREV: OPR:
BEGIN: 12/01/99
SCALE: 1=1
LAST SAVED BY:
LAST MODIFIED: Sat, 10 May 2003 - 3:19pm

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTEBOOK	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

STATION	CUT S.F.	FILL S.F.	EXC. C.Y.	EMB. C.Y.
0+29.71	0	0		
0+50	0	0	0	0
1+00	0	0	0	0
1+50	0	0	0	0
2+00	0	0	0	0
2+51.12	0	0	0	0
2+70.17	110	0	39	0
3+00	107	0	120	0
3+50	107	0	198	0
4+00	114	0	205	0
4+50	91	0	190	0
5+00	49	0	129	0
5+50	48	3	90	3
5+81.82	148	3	114	3
6+00	138	12	95	5
6+50	243	18	353	28
7+00	200	24	410	38
7+23.81	154	12	156	16
7+50	131	15	137	10
8+00	157	5	266	18
8+50	175	1	307	5
9+00	191	2	339	3
9+50	198	1	360	2
10+00	196	1	365	1
10+50	198	1	365	1
11+00	192	1	360	1
11+50	181	1	345	1
12+00	182	1	336	1
12+50	201	2	354	2
12+78.48	190	2	206	2
13+00	183	1	149	1
13+28.48	209	0	207	1
13+50	206	1	166	0
13+78.48	201	1	215	1
14+00	200	1	160	1
14+28.48	178	5	200	4
14+50	145	6	129	5
15+00	184	3	305	7
15+27.61	242	2	218	2
15+50	185	4	177	2
16+00	110	16	273	18
16+50	128	17	220	30
16+67.35	130	17	83	11

STATION	CUT S.F.	FILL S.F.	EXC. C.Y.	EMB. C.Y.
17+00	136	17	161	20
17+50	133	18	248	32
18+00	132	22	245	36
18+50	117	28	230	46
19+00	106	33	206	57
19+50	119	26	208	54
20+00	145	24	244	46
20+50	162	29	284	48
21+00	161	24	298	48
21+50	164	25	300	45
22+00	168	20	307	42
22+50	174	34	324	50
23+00	161	17	310	46
23+50	120	21	260	34
24+00	88	21	192	39
24+50	87	23	162	41
25+00	87	21	161	41
25+19.05	87	25	61	16
25+50	90	20	102	26
26+00	95	16	172	34
26+50	100	13	181	27
26+62.29	102	13	46	6
27+00	123	11	157	17
27+12.29	127	12	57	5
27+50	128	8	178	14
27+62.29	124	14	57	5
28+00	124	10	173	17
28+12.29	120	5	56	3
28+50	121	4	168	7
29+00	154	2	255	6
29+04.79	153	2	27	0
29+50	150	4	253	5
30+00	121	5	251	8
30+50	140	2	242	6
31+00	166	1	283	3
31+50	176	1	317	2
32+00	170	5	320	6
32+50	161	35	306	37
33+00	155	31	292	61
33+50	171	41	302	67
34+00	191	33	336	69
34+50	196	30	359	59
35+00	200	10	367	37
35+50	213	25	383	33
36+00	275	1	452	24
36+50	251	0	487	1
37+00	206	0	423	0
37+50	166	0	343	0
38+00	150	0	293	0
38+17	149	0	94	0
38+40	85	0	100	0
TOTALS			20,374	1,549

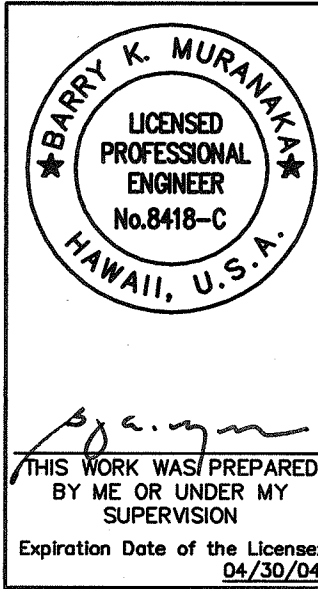
EARTHWORK ESTIMATE SUMMARY

ROADWAY: EXC. = 20,374 C.Y.
EMB. = 1,549 C.Y.

GRADED AREA = 7.1 Acs.

APPROVED:

M. J. [Signature]
Chief, Civil Engineering Branch, D.P.P. [Signature]
(For construction within City R/W only) Date: 7/11/03



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROAD CROSS SECTIONS
SUMMARY
PUULOA ROAD IMPROVEMENTS
Kamehameha Hwy. to Salt Lake Blvd.
Federal Aid Project No. STP-7310(1)
Scale: As shown Date: May 2003
SHEET NO. 109 OF 193 SHEETS