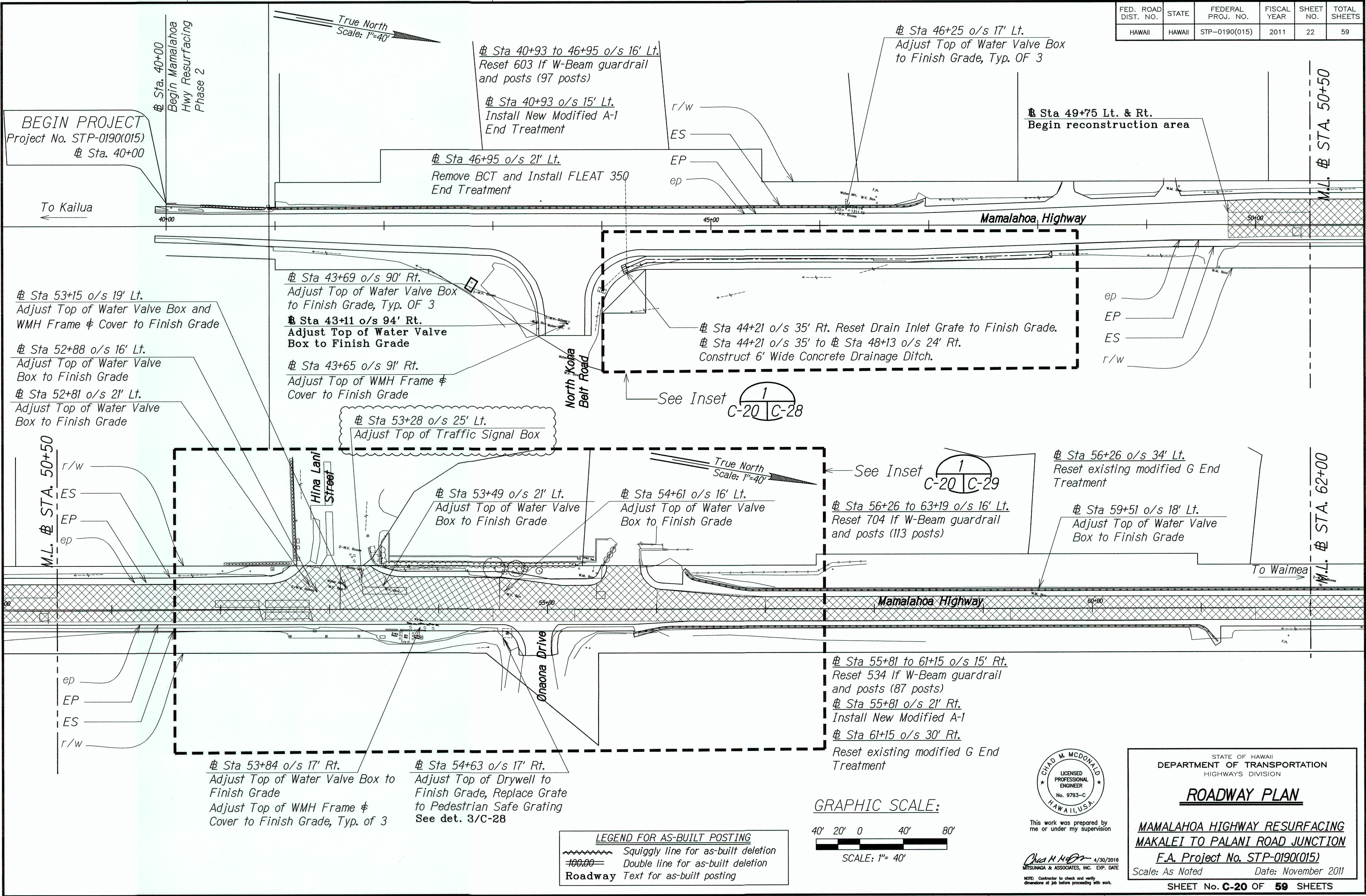
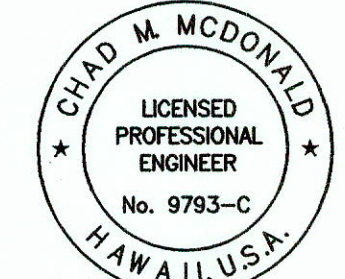


FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0190(015)	2011	22	59



ORIGINAL PLAN	DATE
DESIGNED BY	AUG. 2011
TRACED BY	AUG. 2011
QUANTITIES BY	AUG. 2011
CHECKED BY	AUG. 2011

LEGEND FOR AS-BUILT POSTING	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting



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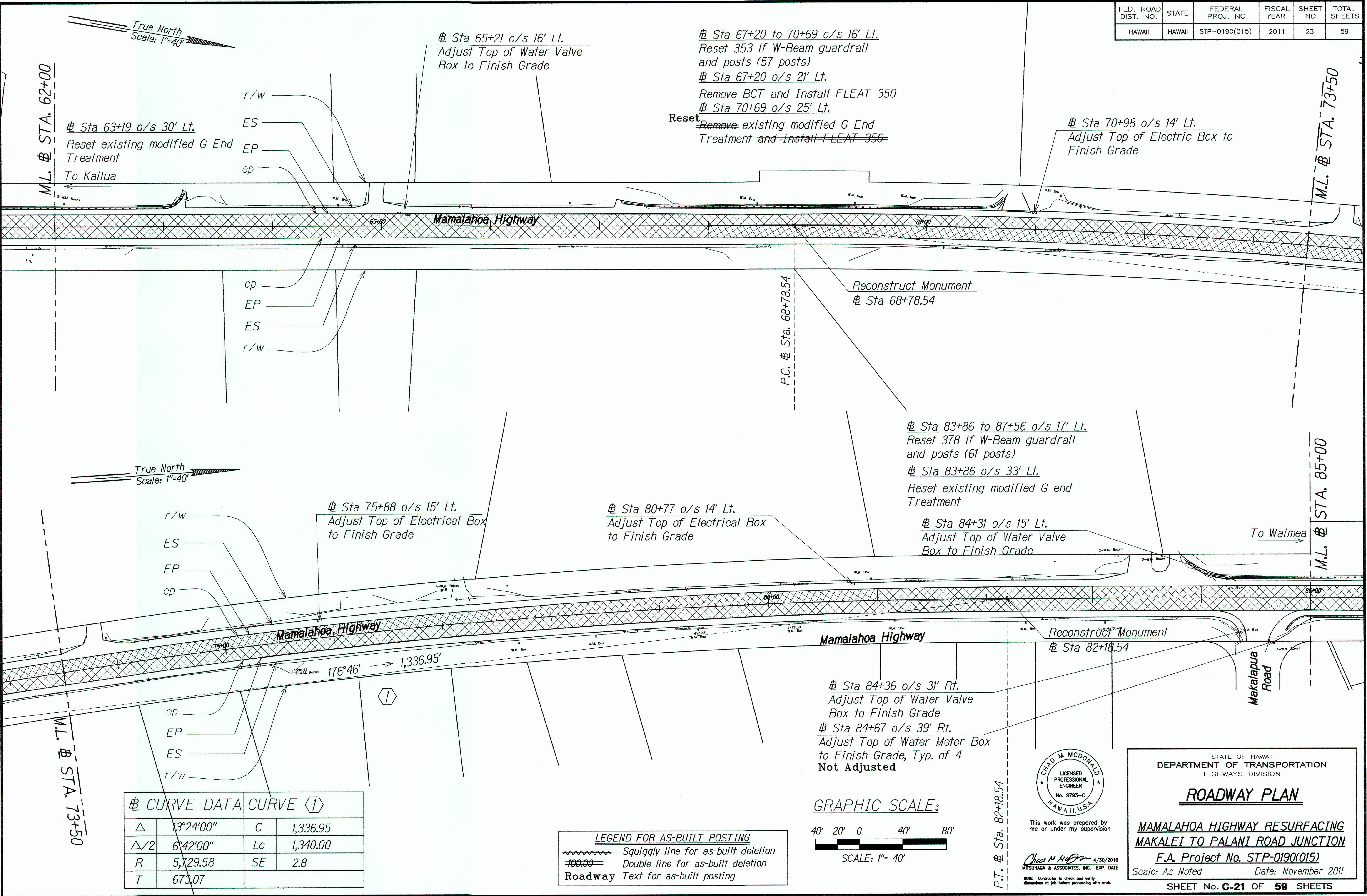
Chad M. McDonald 4/30/2016
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN
MAMALAHOA HIGHWAY RESURFACING
MAKALEI TO PALANI ROAD JUNCTION
F.A. Project No. STP-0190(015)
Scale: As Noted Date: November 2011
SHEET No. **C-20** OF **59** SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0190(015)	2011	23	59



M.L. # STA. 62+00

M.L. # STA. 73+50

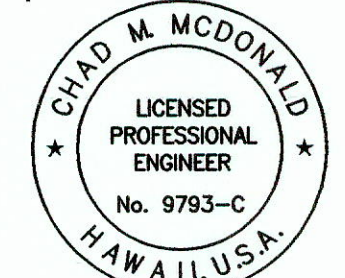
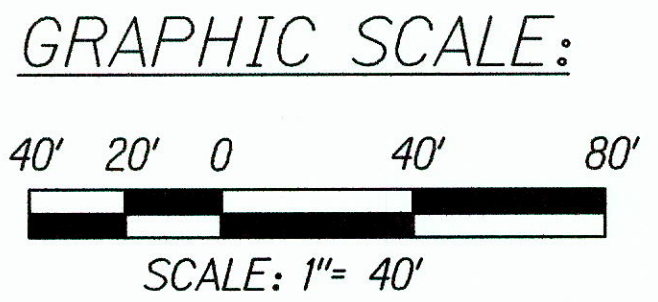
M.L. # STA. 85+00

M.L. # STA. 73+50

P.T. # Sta. 82+18.54

#	CURVE DATA	CURVE	1
Δ	13°24'00"	C	1,336.95
Δ/2	6°42'00"	Lc	1,340.00
R	5,729.58	SE	2.8
T	673.07		

LEGEND FOR AS-BUILT POSTING
 Squiggly line for as-built deletion
 Double line for as-built deletion
 Roadway Text for as-built posting



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 Mitsunaga & Associates, Inc. 4/30/2016
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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN

**MAMALAHOA HIGHWAY RESURFACING
 MAKALEI TO PALANI ROAD JUNCTION**

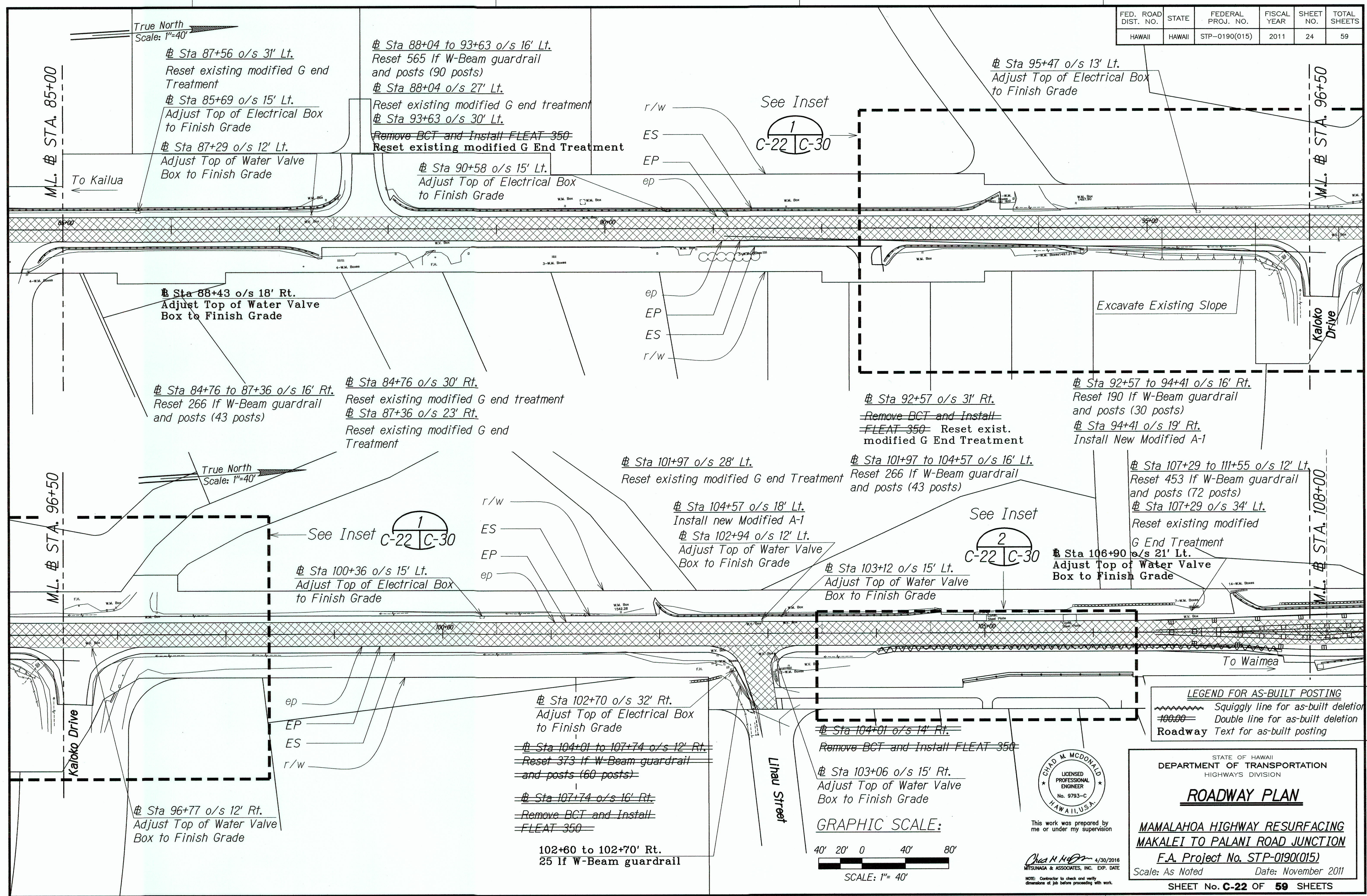
F.A. Project No. STP-0190(015)
 Scale: As Noted Date: November 2011

SHEET No. C-21 OF 59 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	Aug. 2011
CHECKED BY	Aug. 2011
NOTED BY	Aug. 2011
NO.	

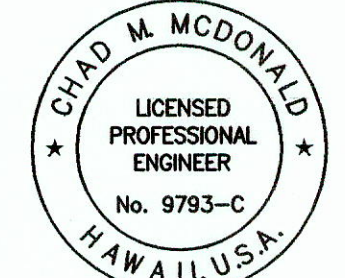
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0190(015)	2011	24	59



ORIGINAL PLAN	DATE
DESIGNED BY	AUG. 2011
CHECKED BY	AUG. 2011
NOTED BY	AUG. 2011
DATE	

LEGEND FOR AS-BUILT POSTING
 Squiggly line for as-built deletion
 Double line for as-built deletion
 Roadway Text for as-built posting



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 Mitsunaga & Associates, Inc. 4/30/2018
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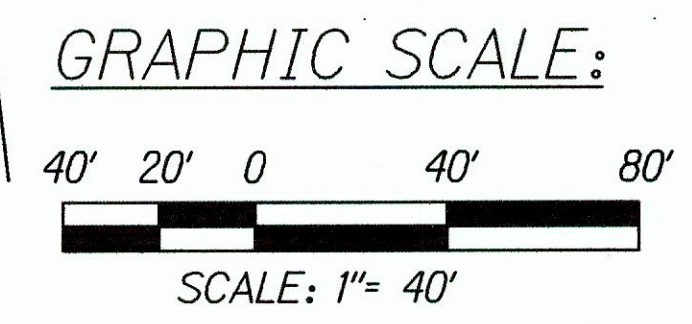
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN

**MAMALAHOA HIGHWAY RESURFACING
 MAKALEI TO PALANI ROAD JUNCTION**

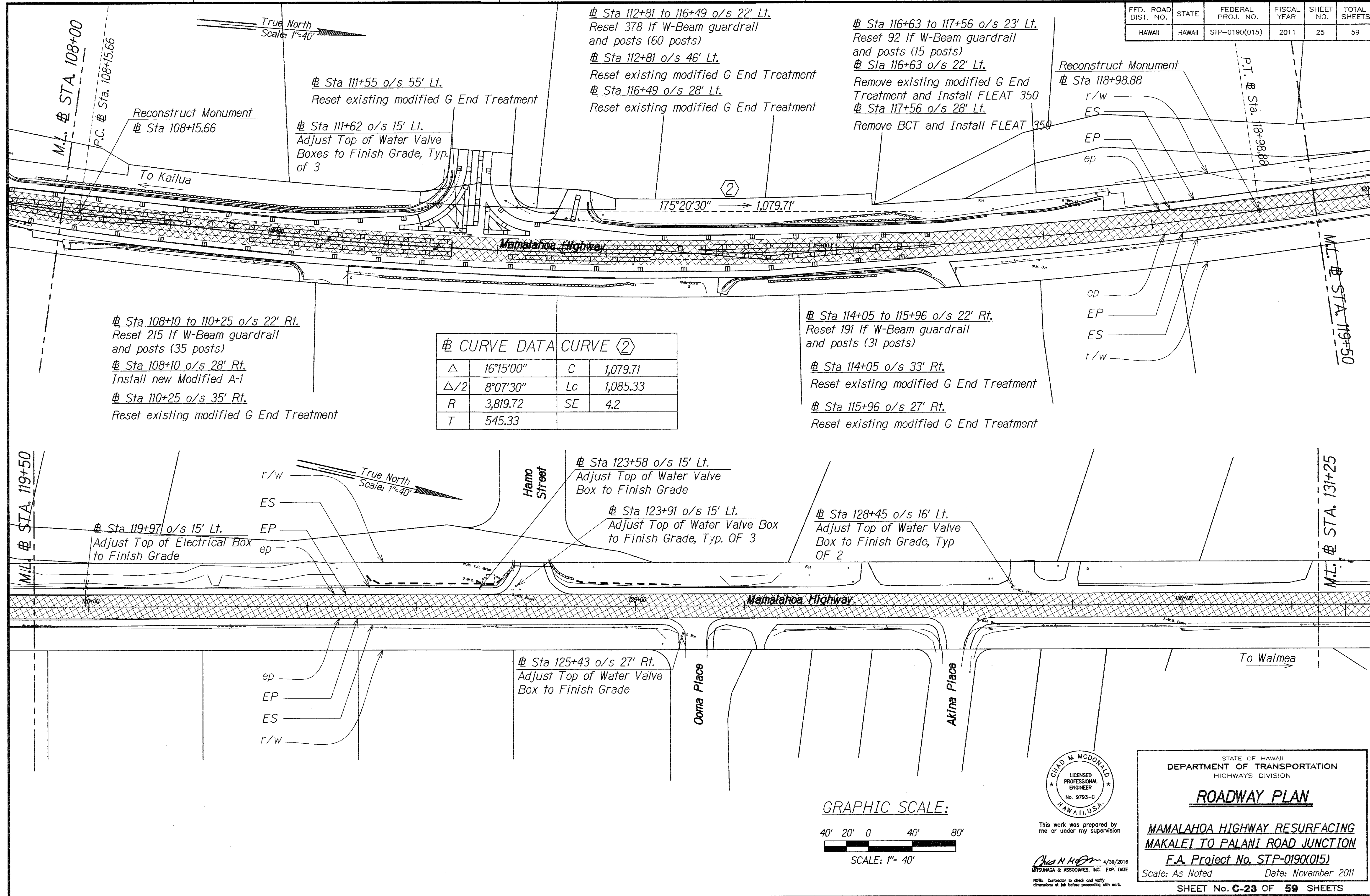
F.A. Project No. STP-0190(015)
 Scale: As Noted Date: November 2011

SHEET No. C-22 OF 59 SHEETS

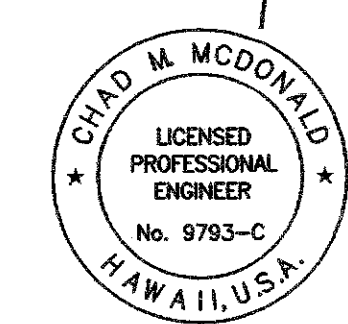


"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0190(015)	2011	25	59



ORIGINAL PLAN	DATE
DRAWN BY	DESIGNED BY
NOTED BY	CHECKED BY



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

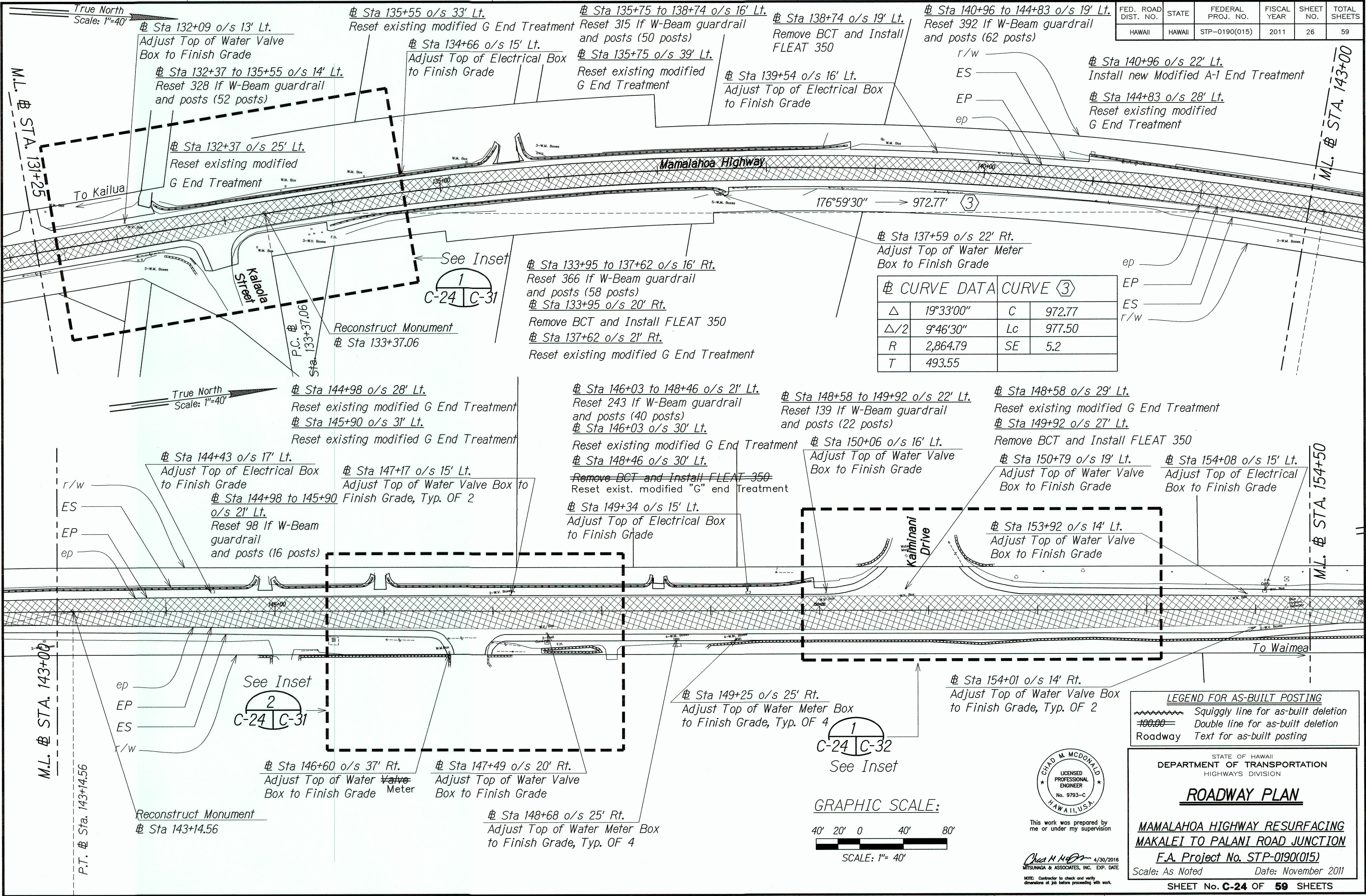
**MAMALAHOA HIGHWAY RESURFACING
MAKALEI TO PALANI ROAD JUNCTION**

F.A. Project No. STP-0190(015)

Scale: As Noted Date: November 2011

SHEET No. C-23 OF 59 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0190(015)	2011	26	59



ORIGINAL PLAN	DATE
DESIGNED BY	AUG. 2011
DRAWN BY	AUG. 2011
CHECKED BY	AUG. 2011
NOTED BY	AUG. 2011



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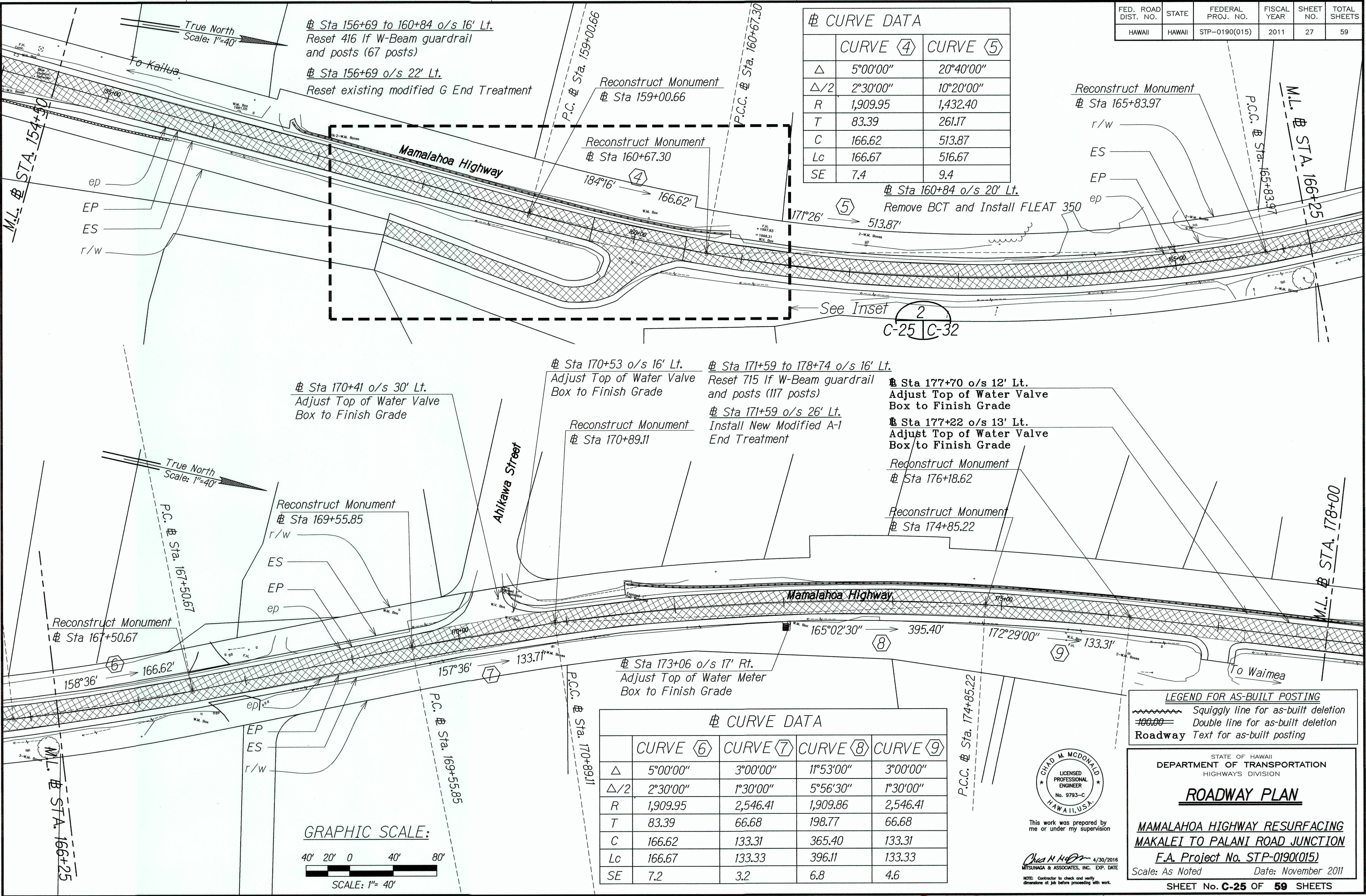
Chad M. McDonald 4/30/2016
 MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0190(015)	2011	27	59

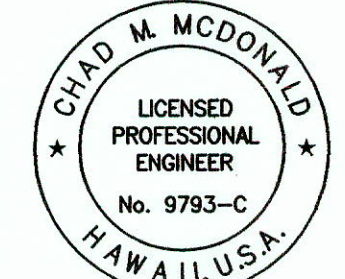
CURVE DATA		
	CURVE ④	CURVE ⑤
Δ	5°00'00"	20°40'00"
Δ/2	2°30'00"	10°20'00"
R	1,909.95	1,432.40
T	83.39	261.17
C	166.62	513.87
Lc	166.67	516.67
SE	7.4	9.4



DATE	AUG. 2011
SURVEY PLOTTED BY	MITSUNAGA & ASSOCIATES
DESIGNED BY	MITSUNAGA & ASSOCIATES
CHECKED BY	MITSUNAGA & ASSOCIATES
ORIGINAL PLAN	
NOTE BOOK	
No.	

CURVE DATA				
	CURVE ⑥	CURVE ⑦	CURVE ⑧	CURVE ⑨
Δ	5°00'00"	3°00'00"	11°53'00"	3°00'00"
Δ/2	2°30'00"	1°30'00"	5°56'30"	1°30'00"
R	1,909.95	2,546.41	1,909.86	2,546.41
T	83.39	66.68	198.77	66.68
C	166.62	133.31	365.40	133.31
Lc	166.67	133.33	396.11	133.33
SE	7.2	3.2	6.8	4.6

LEGEND FOR AS-BUILT POSTING
 Squiggly line for as-built deletion
 Double line for as-built deletion
 Roadway Text for as-built posting



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN

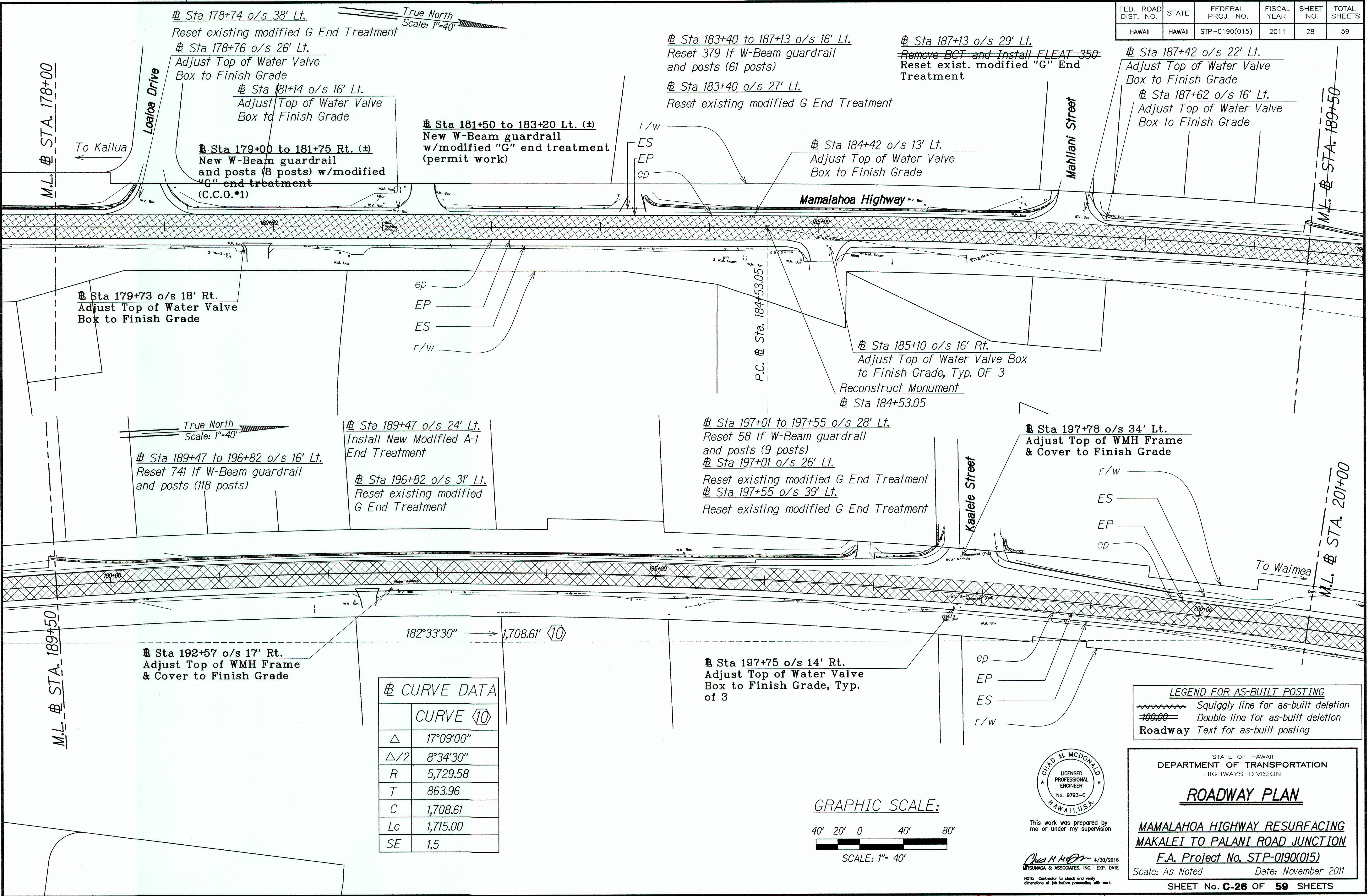
**MAMALAHOA HIGHWAY RESURFACING
 MAKALEI TO PALANI ROAD JUNCTION**

F.A. Project No. STP-0190(015)
 Scale: As Noted Date: November 2011

SHEET No. C-25 OF 59 SHEETS

"AS-BUILT"

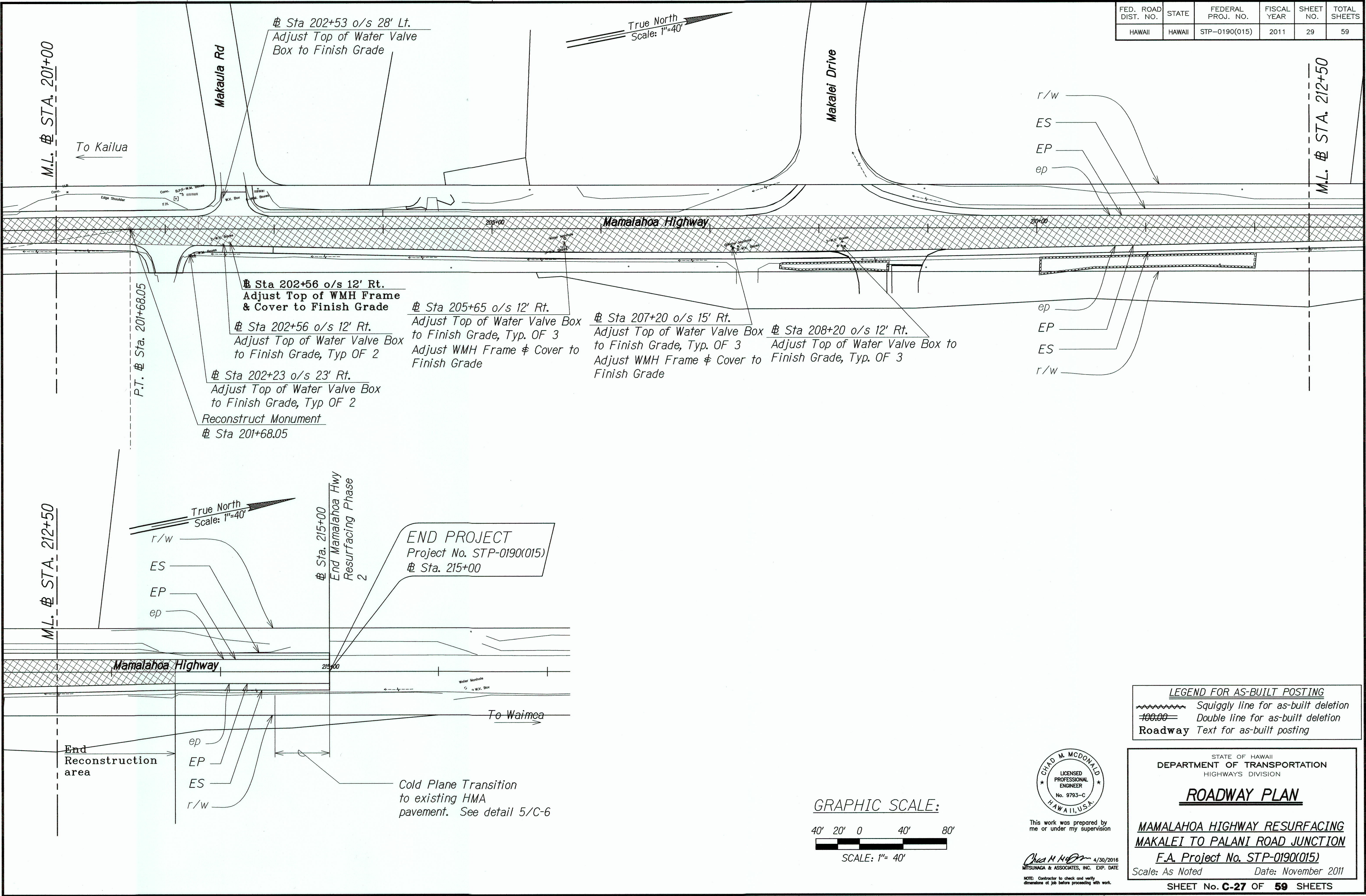
FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0190(015)	2011	28	59



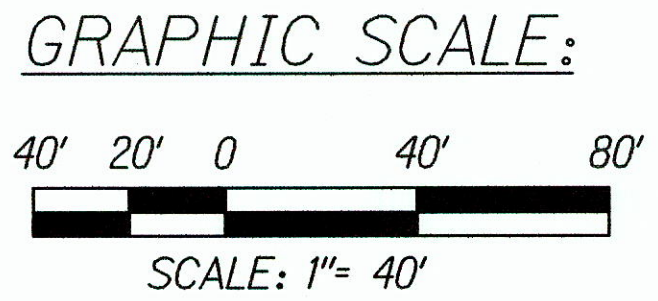
ORIGINAL PLAN	DATE
DESIGNED BY	Aug. 2011
CHECKED BY	Aug. 2011
NOTED BY	Aug. 2011
NO.	

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0190(015)	2011	29	59



ORIGINAL PLAN	DATE
DESIGNED BY	Aug. 2011
DRAWN BY	Aug. 2011
CHECKED BY	Aug. 2011
NOTED BY	Aug. 2011
NO.	



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Chad M. McDonald 4/30/2016
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

LEGEND FOR AS-BUILT POSTING

~~~~~ Squiggly line for as-built deletion

== Double line for as-built deletion

Roadway Text for as-built posting

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

**MAMALAHOA HIGHWAY RESURFACING  
MAKALEI TO PALANI ROAD JUNCTION**

**F.A. Project No. STP-0190(015)**

Scale: As Noted Date: November 2011

SHEET No. **C-27** OF **59** SHEETS

**"AS-BUILT"**