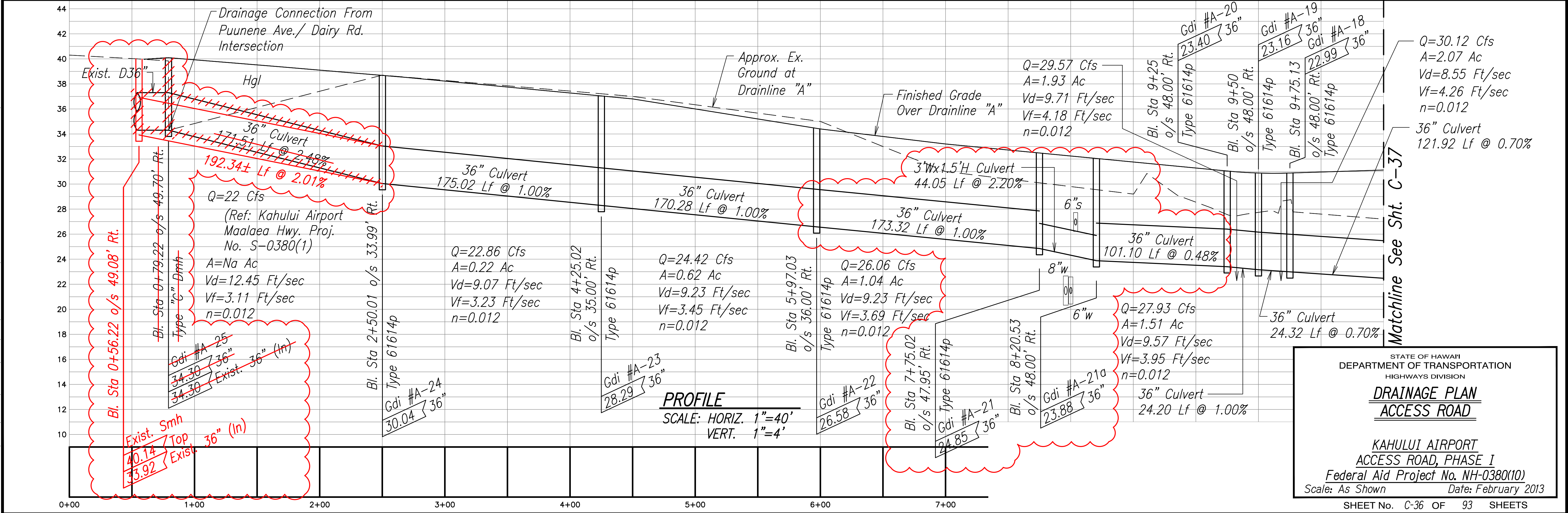
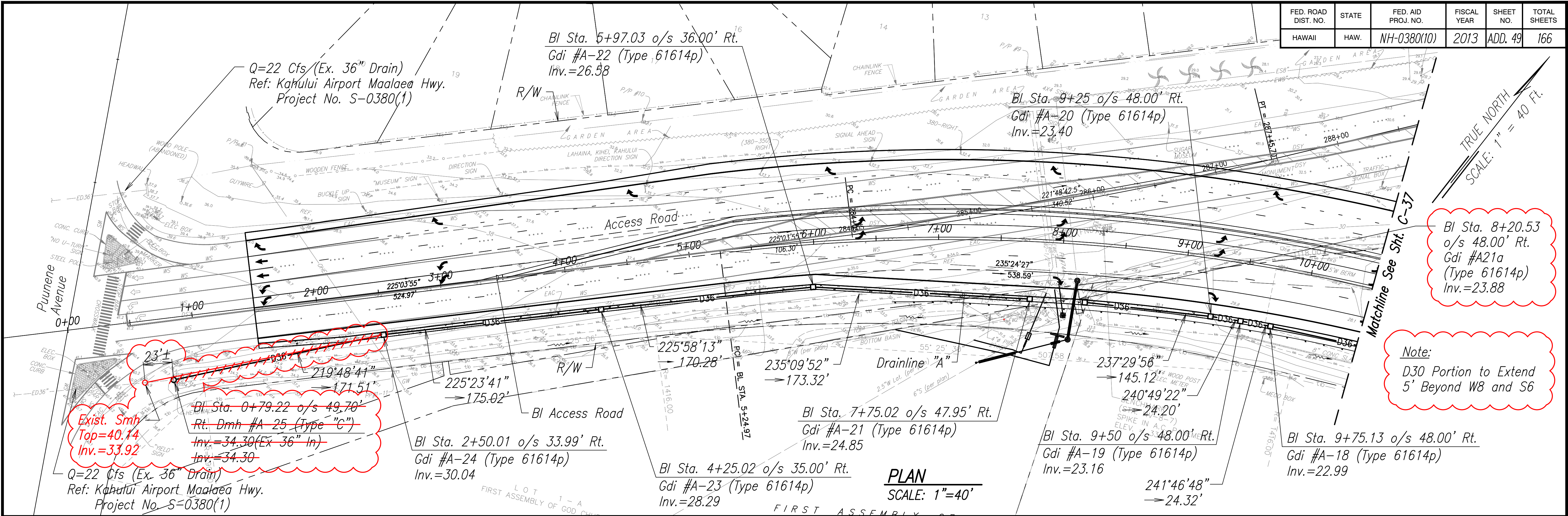


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0380(10)	2013	ADD. 49	166



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

DRAWING NAME: C:\USERS\TINKAM\APPDATA\LOCAL\TEMP\ACBUBISH_9948\VC-36.DWG PLOT TIME: 10:30-18:9:40 AM

"AS-BUILT"

ADD. 49

AS-BUILT DRAWINGS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0380(10)	2013	50	166

DRAWING NAME: C:\PROJECTS\KAHULUI-2011\AS-BUILT\10-25-18.1.51 PM

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	...
QUANTITIES BY	DESIGNED BY	...
CHECKED BY	CHECKED BY	...

Q=31.44 Cfs
A=2.41 Ac
Vd=8.64 Ft/sec
Vf=4.45 Ft/sec
n=0.012

Bl. Sta 11+00 o/s 48.00' Rt.
Type 61614p
Gdi #A-17
22.13 36"

Bl. Sta 12+00 o/s 48.82' Rt.
Type 61614p
Gdi #A-16
21.43 36"

Q=32.53 Cfs
A=2.69 Ac
Vd=8.71 Ft/sec
Vf=4.60 Ft/sec
n=0.012

Bl. Sta 14+30.90 o/s 36.00' Rt. (Gdi #A-15)
Type 61614p
Gdi #A-15
19.81 36"

Bl. Sta 15+14 o/s 36.00' Rt.
Type 61614p
Gdi #A-14
19.23 48"

PROFILE
SCALE: HORIZ. 1"=40'
VERT. 1"=4'

Q=61.80 Cfs
A=3.93 Ac
Vd=9.65 Ft/sec
Vf=4.92 Ft/sec
n=0.012

Bl. Sta 17+32.05 o/s 36.00' Rt.
Type 61614p
Gdi #A-13
17.92 48"

Q=64.33 Cfs
A=3.93 Ac
Vd=9.75 Ft/sec
Vf=5.12 Ft/sec
n=0.012

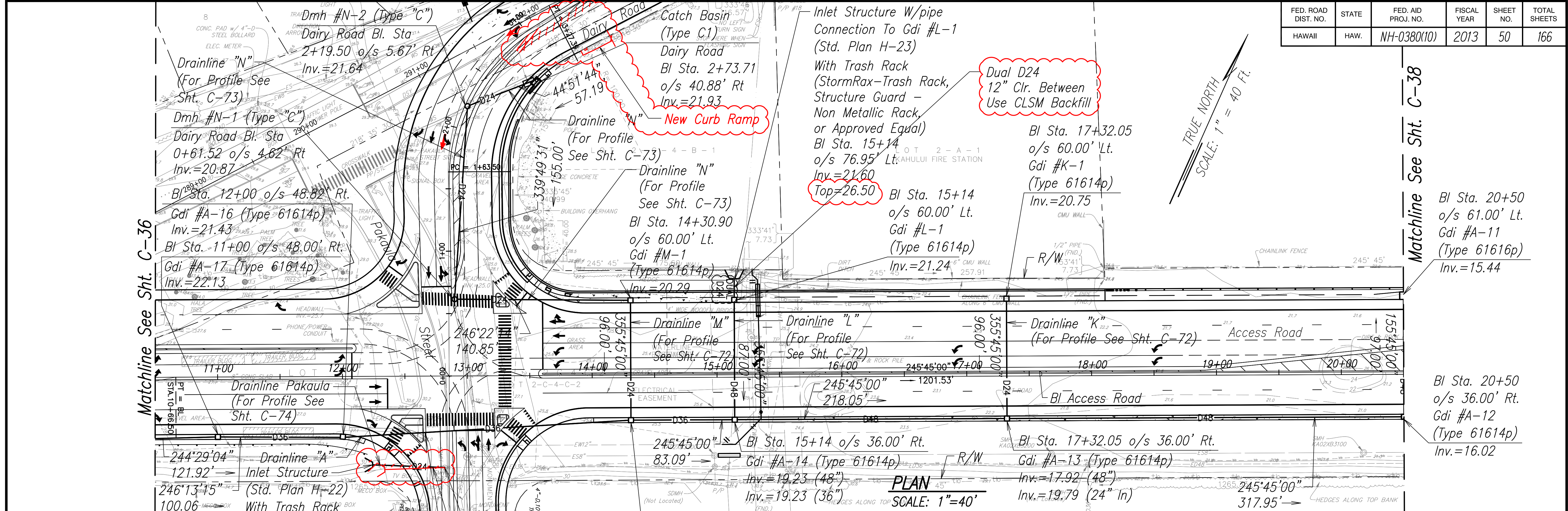
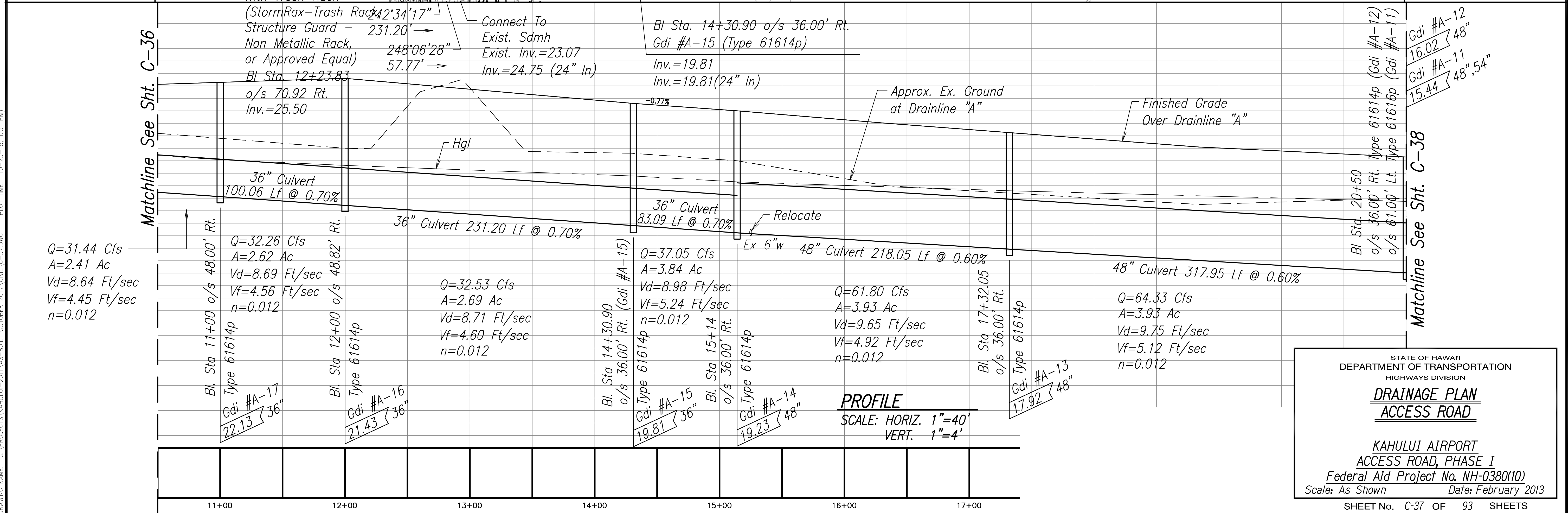
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE PLAN
ACCESS ROAD

KAHULUI AIRPORT
ACCESS ROAD, PHASE I
Federal Aid Project No. NH-0380(10)
Scale: As Shown Date: February 2013

SHEET No. C-37 OF 93 SHEETS

"AS-BUILT"

50



Matchline See Sht. C-38

Bl. Sta. 20+50 o/s 36.00' Rt. Gdi #A-12 (Type 61614p) Inv.=16.02

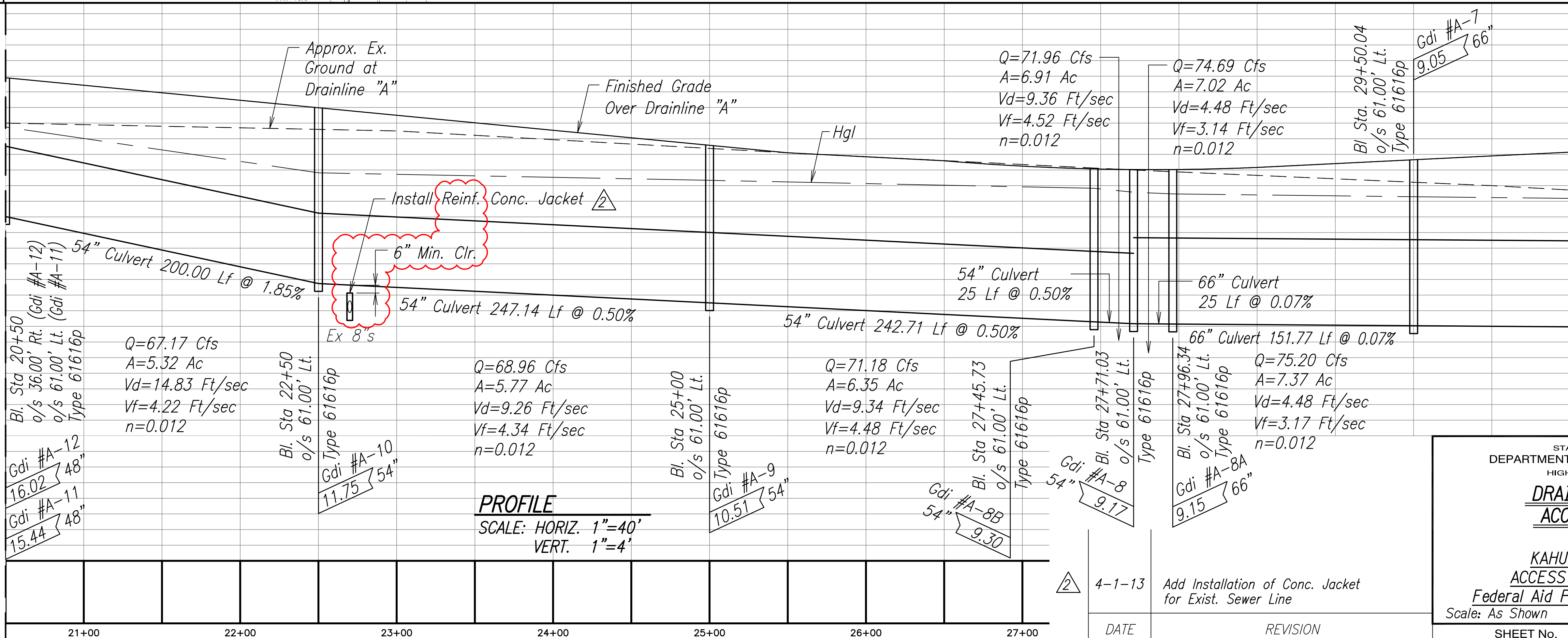
Gdi #A-12 16.02 48"
Gdi #A-11 15.44 48",54"

Matchline See Sht. C-38

DRAWING NAME: C:\PROJECTS\KAHULUI-2011\AS-BUILT OCTOBER 2017\CIVIL\G-38.DWG PLOT TIME: 10-25-18, 1:57 PM

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

Matchline See Sht. C-37



Matchline See Sht. C-39

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

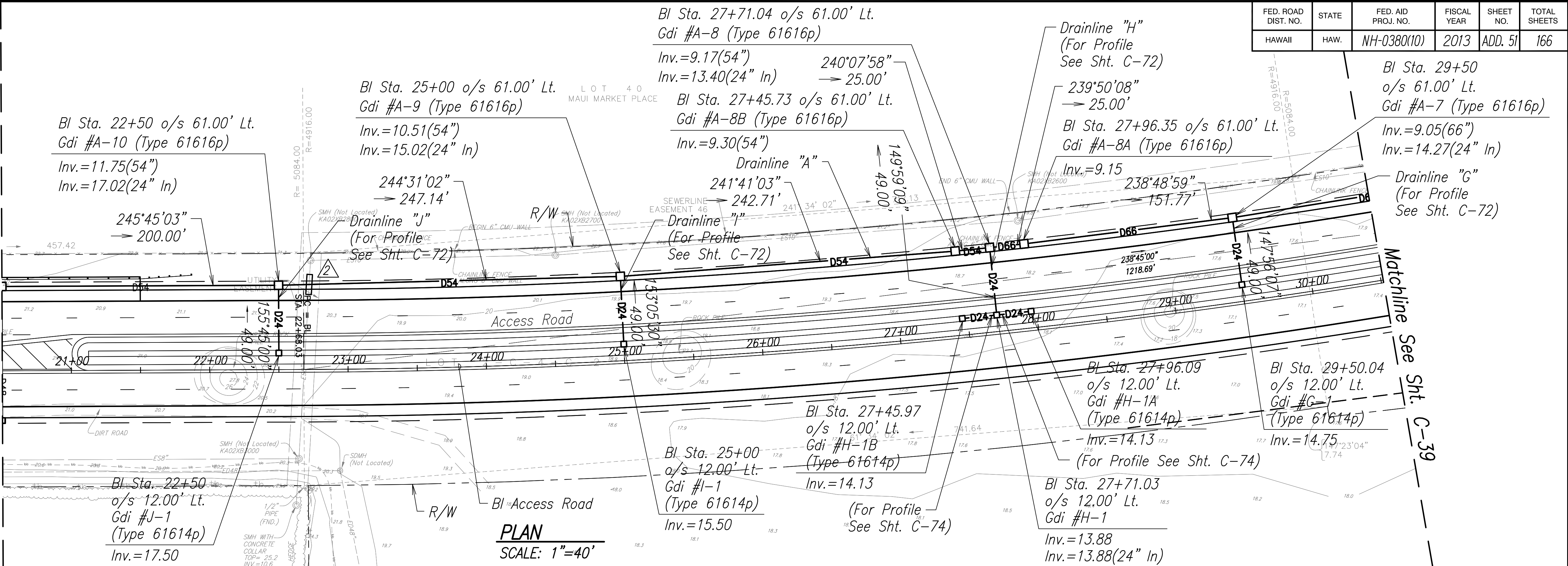
DRAINAGE PLAN
ACCESS ROAD

KAHULUI AIRPORT
ACCESS ROAD, PHASE I
Federal Aid Project No. NH-0380(10)
Scale: As Shown Date: February 2013

SHEET No. C-38 OF 93 SHEETS

TRUE NORTH
SCALE: 1" = 40 Ft.

Matchline See Sht. C-37



Matchline See Sht. C-39

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0380(10)	2013	ADD. 51	166

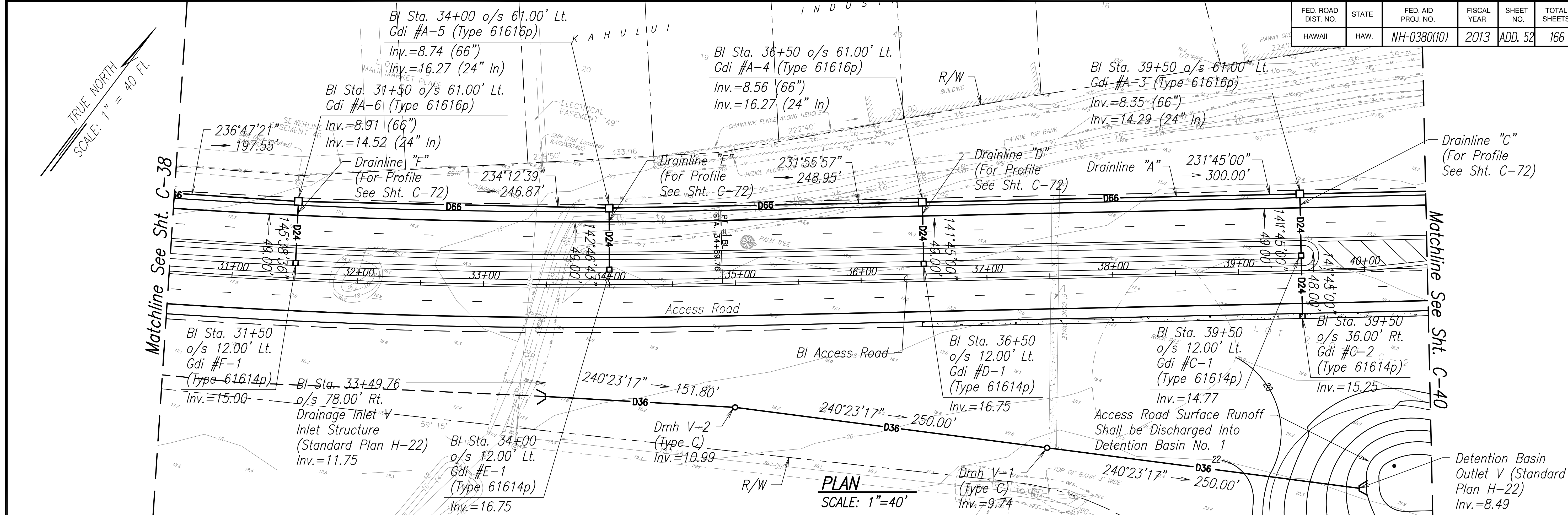
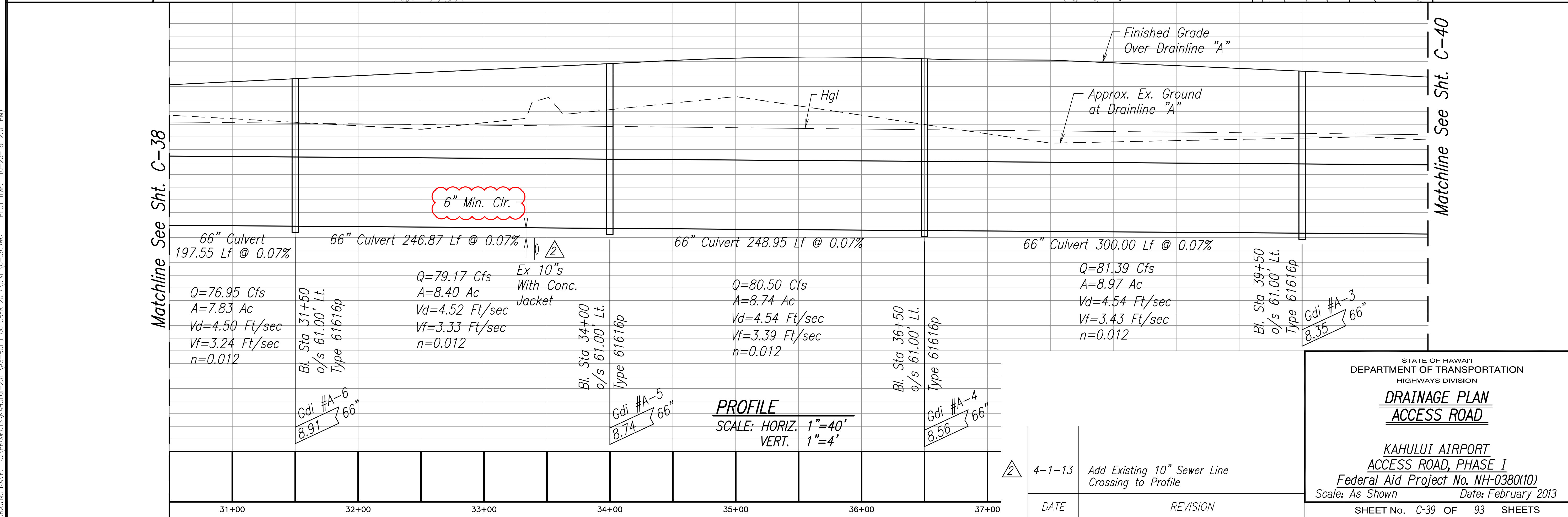
"AS-BUILT"

ADD. 51

AS-BUILT DRAWINGS

DRAWING NAME: C:\PROJECTS\KAHULUI-2011\AS-BUILT OCTOBER 2017\CIVIL\G-39.DWG PLOT TIME: 10-25-18, 2:01 PM

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



"AS-BUILT"

ADD. 52

AS-BUILT DRAWINGS

STATIONING: 0+00.00 TO 0+01.00
 DRAWING: 02-01-01
 DATE: 02-01-01
 TIME: 02:00 PM



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.



FUKUNAGA & ASSOCIATES, INC. APRIL 30, 2014
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

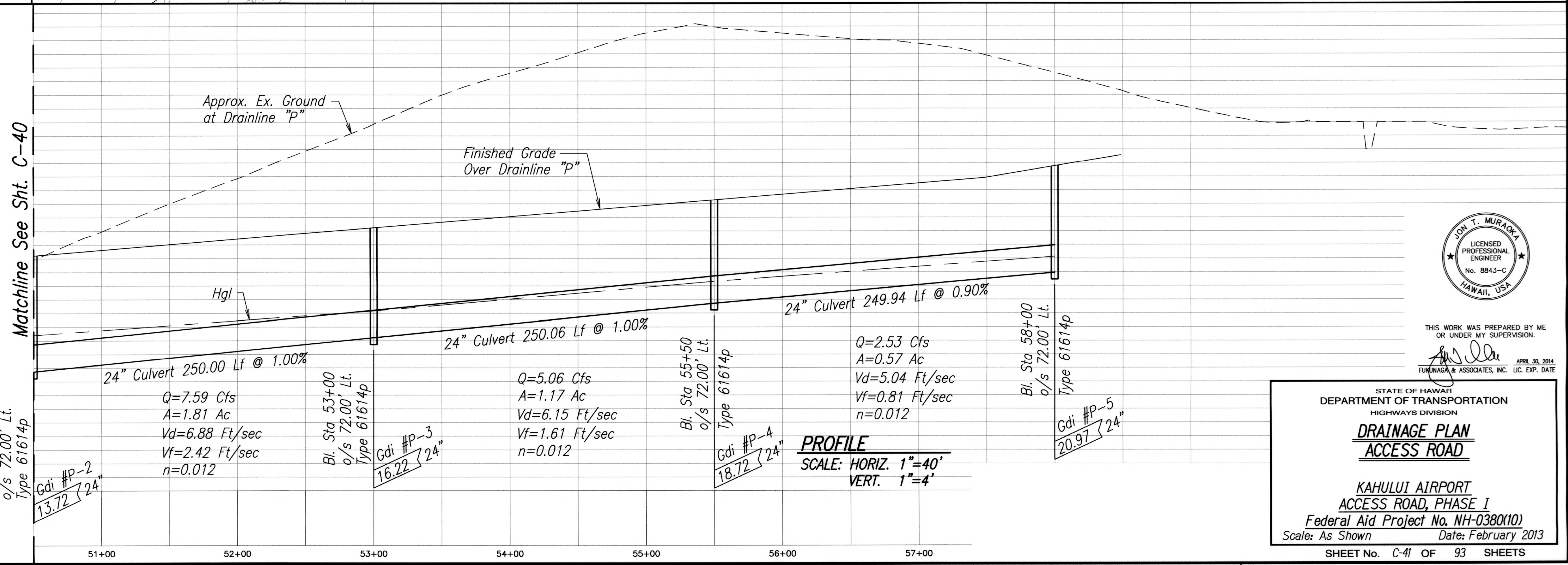
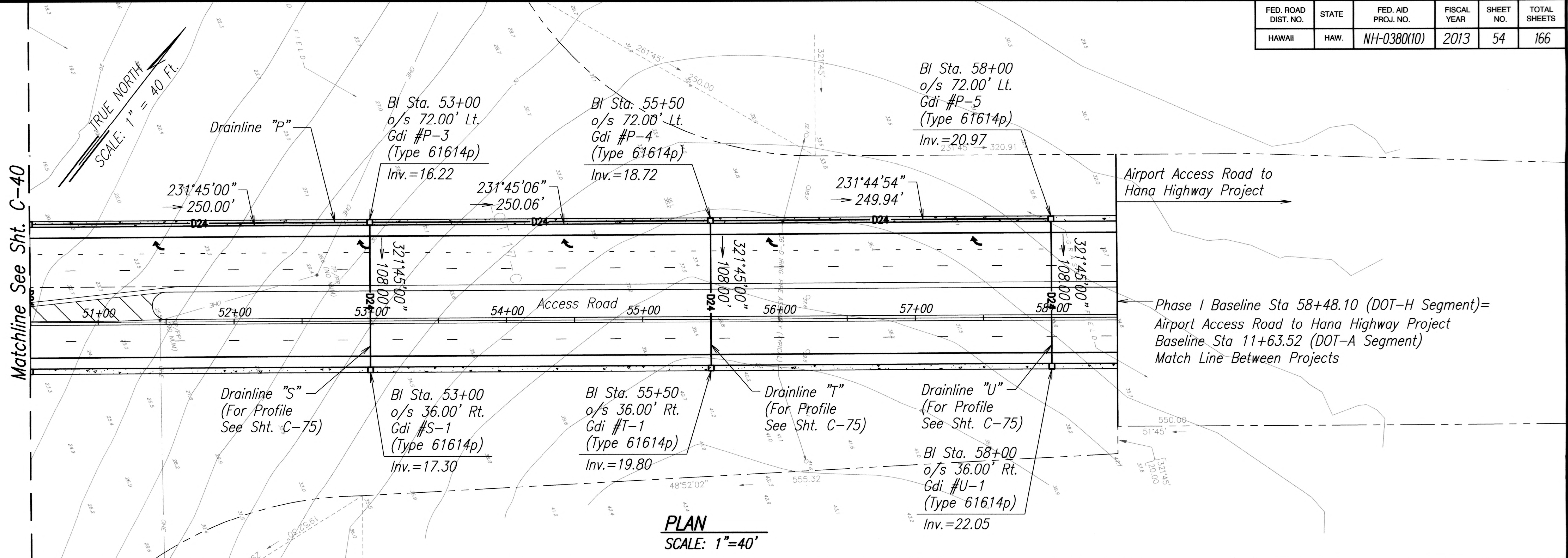
DRAINAGE PLAN
ACCESS ROAD

KAHULUI AIRPORT
ACCESS ROAD, PHASE I
Federal Aid Project No. NH-0380(10)

Scale: As Shown Date: February 2013

SHEET No. C-40 OF 93 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0380(10)	2013	54	166



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

DRAWING NAME: C:\PROJECTS\KAHULUI-2011\PLANS\12-DRAINAGE\C-41.DWG PLOT TIME: 02-22-13, 2:21 PM

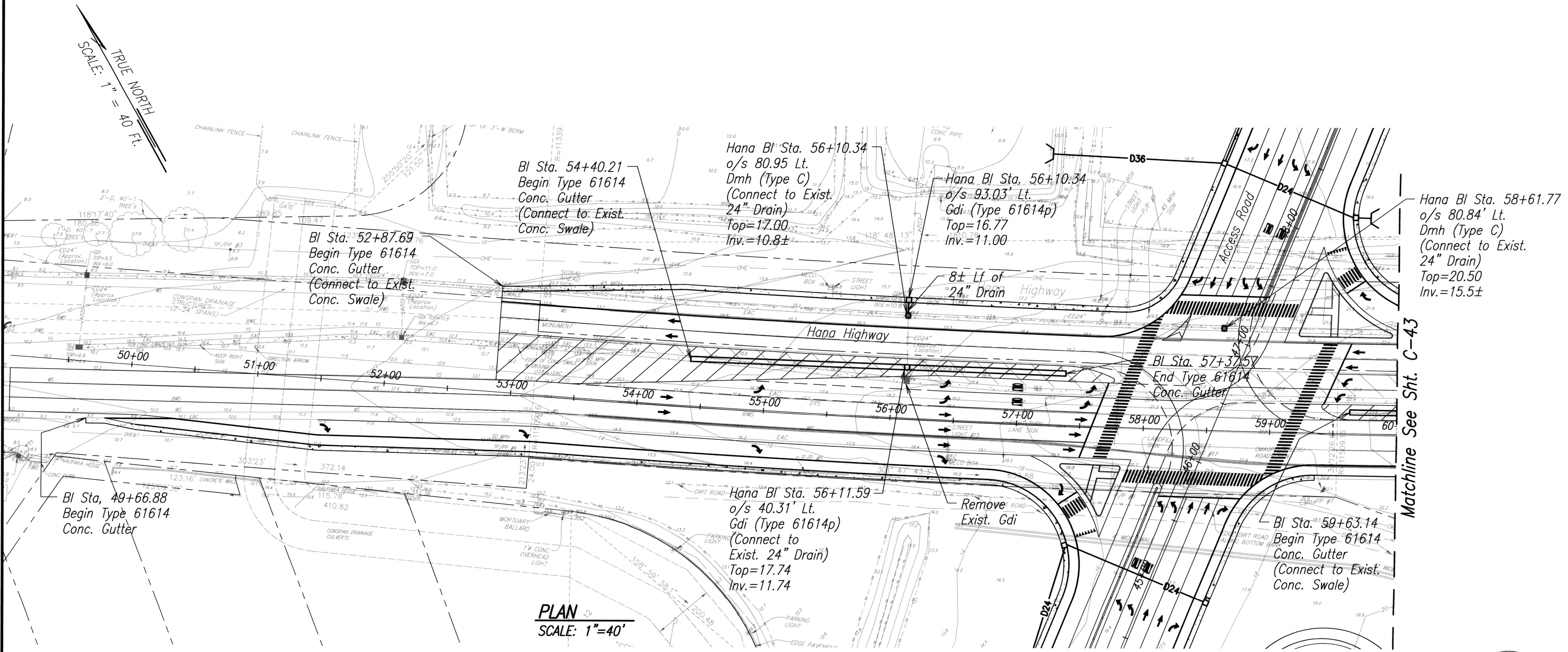


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OR UNDER MY SUPERVISION.
[Signature]
FUKUNAGA & ASSOCIATES, INC. APRIL 30, 2014
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE PLAN
ACCESS ROAD

KAHULUI AIRPORT
ACCESS ROAD, PHASE I
Federal Aid Project No. NH-0380(10)
Scale: As Shown Date: February 2013
SHEET No. C-41 OF 93 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0380(10)	2013	55	166



Matchline See Sht. C-43

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: C:\PROJECTS\KAHULUI-2011\PLANS\12-DRAINAGE\C-42.DWG PLOT TIME: 02-22-13 2:22 PM



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APR 30, 2014
FUKUNAGA & ASSOCIATES, INC. LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE PLAN
HANA HIGHWAY

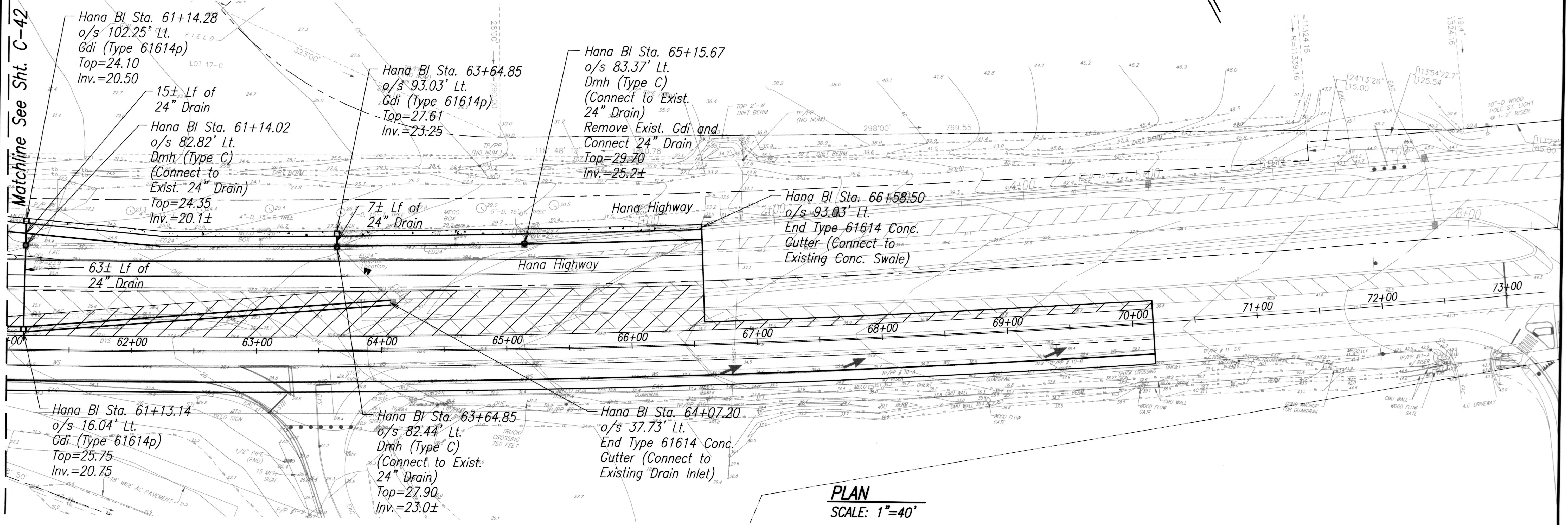
KAHULUI AIRPORT
ACCESS ROAD, PHASE I
Federal Aid Project No. NH-0380(10)
Scale: As Shown Date: February 2013

SHEET No. C-42 OF 93 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0380(10)	2013	56	166

TRUE NORTH
SCALE: 1" = 40 FT.

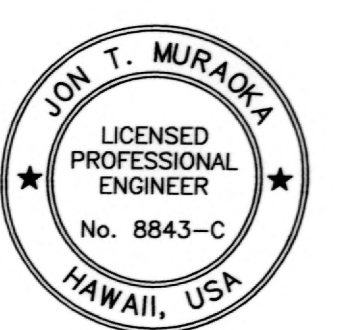
Matchline See Sht. C-42



DESIGNED BY	DATE
TRACED BY	
NOTED BY	
CHECKED BY	

ORIGINAL PLAN	DATE
NOTE BOOK	
No.	

DRAWING NAME: C:\PROJECTS\KAHULUI-2011\PLANS\12-DRAINAGE\C-43.DWG PLOT TIME: 02-22-13, 2:22 PM



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OR UNDER MY SUPERVISION.
[Signature]
APRIL 30, 2014
FUKUNAGA & ASSOCIATES, INC. LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN
HANA HIGHWAY

KAHULUI AIRPORT
ACCESS ROAD, PHASE I
Federal Aid Project No. NH-0380(10)
Scale: As Shown Date: February 2013
SHEET No. C-43 OF 93 SHEETS