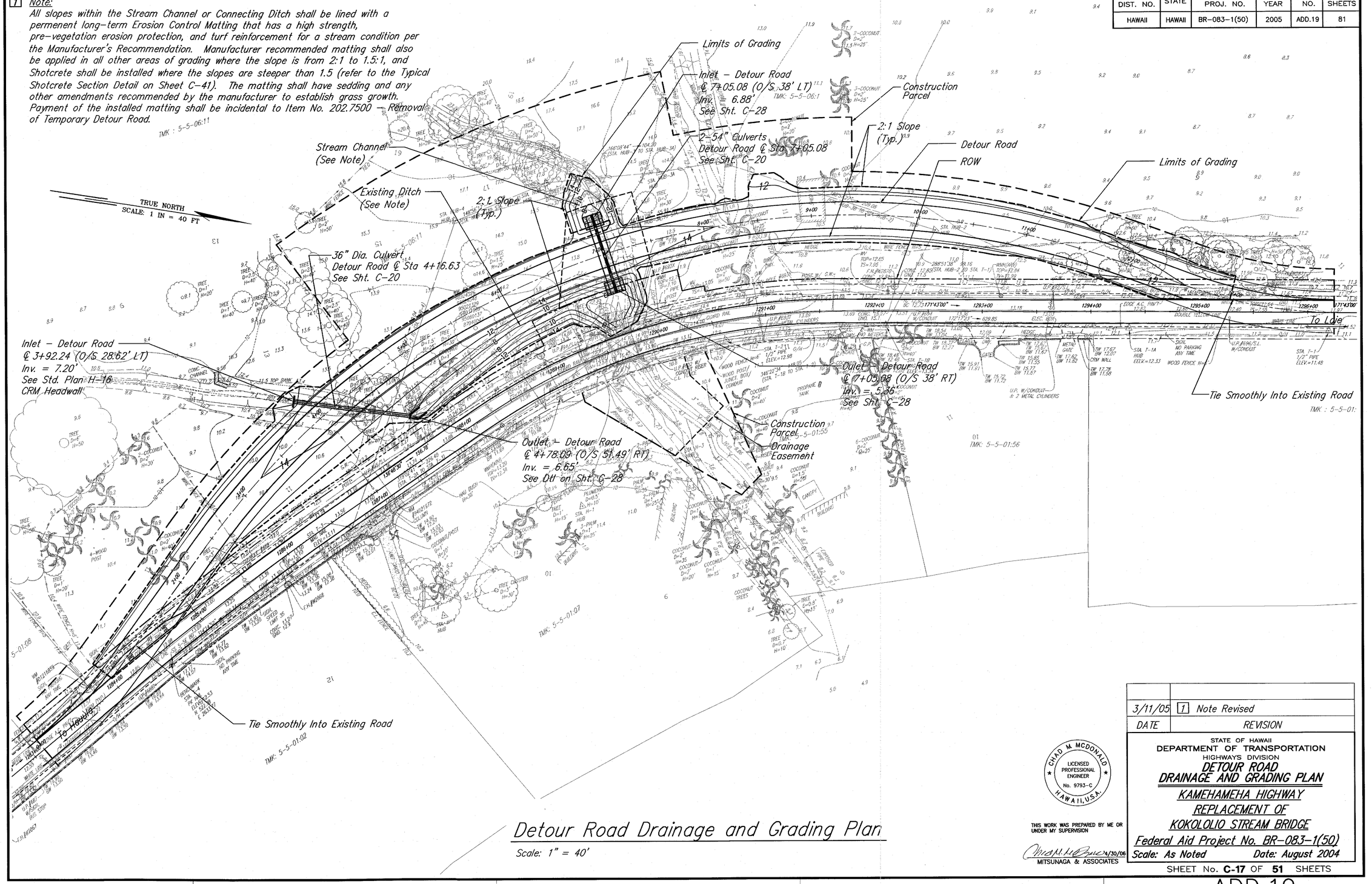
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	BR-083-1(50)	2005	ADD.19	81

1 *Note:*
All slopes within the Stream Channel or Connecting Ditch shall be lined with a permenent long-term Erosion Control Matting that has a high strength, pre-vegetation erosion protection, and turf reinforcement for a stream condition per the Manufacturer's Recommendation. Manufacturer recommended matting shall also be applied in all other areas of grading where the slope is from 2:1 to 1.5:1, and Shotcrete shall be installed where the slopes are steeper than 1.5 (refer to the Typical Shotcrete Section Detail on Sheet C-41). The matting shall have sedding and any other amendments recommended by the manufacturer to establish grass growth. Payment of the installed matting shall be incidental to Item No. 202.7500 - Removal of Temporary Detour Road.



Detour Road Drainage and Grading Plan

Scale: 1" = 40'

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

DATE	REVISION
3/11/05	1 Note Revised

CHAD M. MCDONALD
LICENSED PROFESSIONAL ENGINEER
No. 9793-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

3/30/06
MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETOUR ROAD
DRAINAGE AND GRADING PLAN

KAMEHAMEHA HIGHWAY
REPLACEMENT OF
KOKOLOLIO STREAM BRIDGE
Federal Aid Project No. BR-083-1(50)

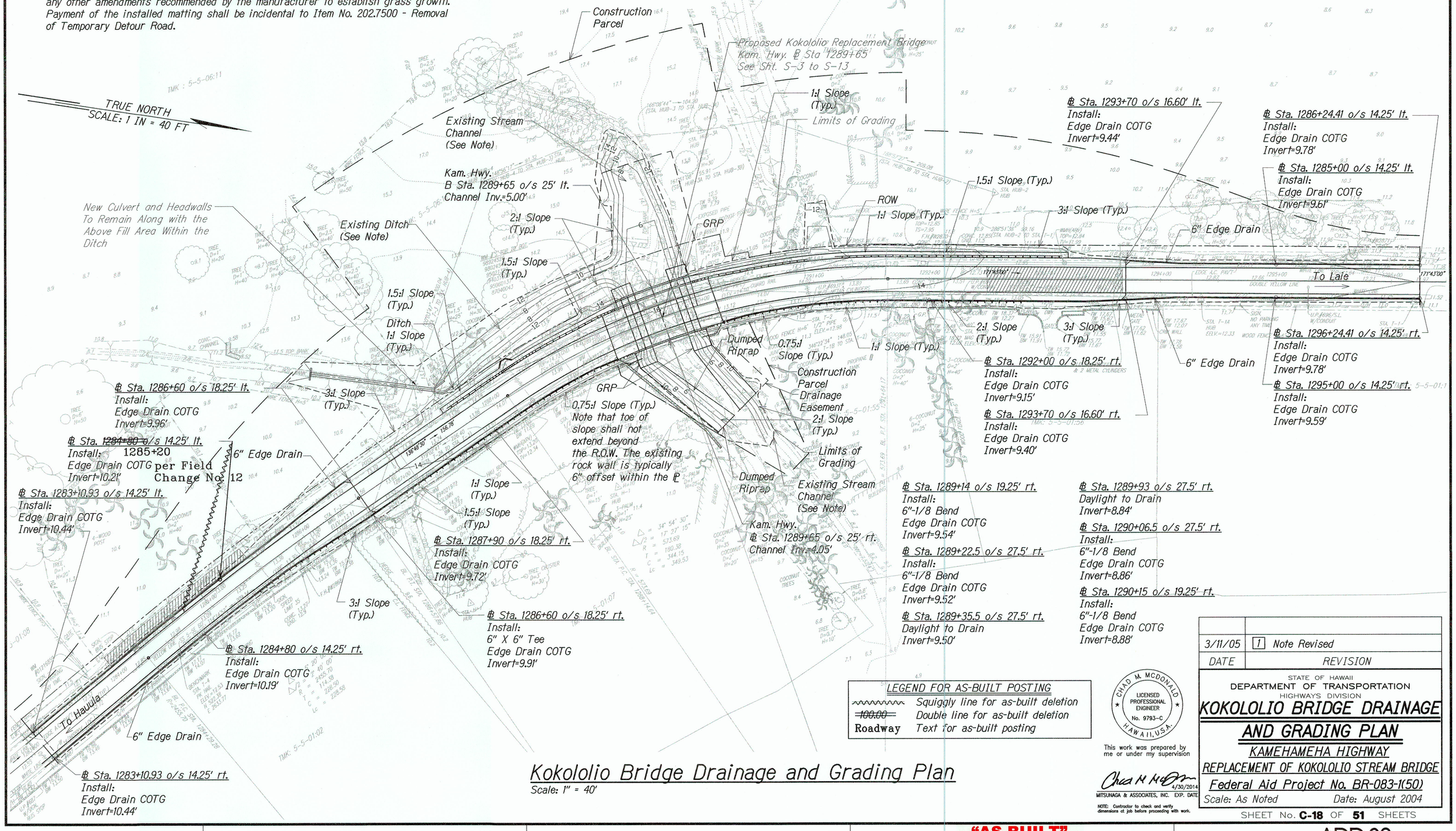
Scale: As Noted Date: August 2004

SHEET No. **C-17** OF **51** SHEETS

ADD.19

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	BR-083-1(50)	2005	ADD.20	81

[1] *Note:*
All slopes within the Stream Channel or Connecting Ditch shall be lined with a permenent long-term Erosion Control Matting that has a high strength, pre-vegetation erosion protection, and turf reinforcement for a stream condition per the Manufacturer's Recommendation. Manufacturer recommended matting shall also be applied in all other areas of grading where the slope is from 2:1 to 1.5:1, and Shotcrete shall be installed where the slopes are steeper than 1.5 (refer to the Typical Shotcrete Section Detail on Sheet C-41). The matting shall have sedding and any other amendments recommended by the manufacturer to establish grass growth. Payment of the installed matting shall be incidental to Item No. 202.7500 - Removal of Temporary Detour Road.



Kokololio Bridge Drainage and Grading Plan

Scale: 1" = 40'

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

LEGEND FOR AS-BUILT POSTING

~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

CHAD M. MCDONALD — LICENSED PROFESSIONAL ENGINEER — No. 9793-C — HAWAII, U.S.A.

This work was prepared by me or under my supervision

4/30/2014

MITSUNAGA & ASSOCIATES, INC. EXP. DATE

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

3/11/05	[1] Note Revised
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KOKOLOLIO BRIDGE DRAINAGE AND GRADING PLAN

KAMEHAMEHA HIGHWAY

REPLACEMENT OF KOKOLOLIO STREAM BRIDGE

Federal Aid Project No. BR-083-1(50)

Scale: As Noted Date: August 2004

SHEET No. C-18 OF 51 SHEETS

"AS-BUILT"

ADD.20