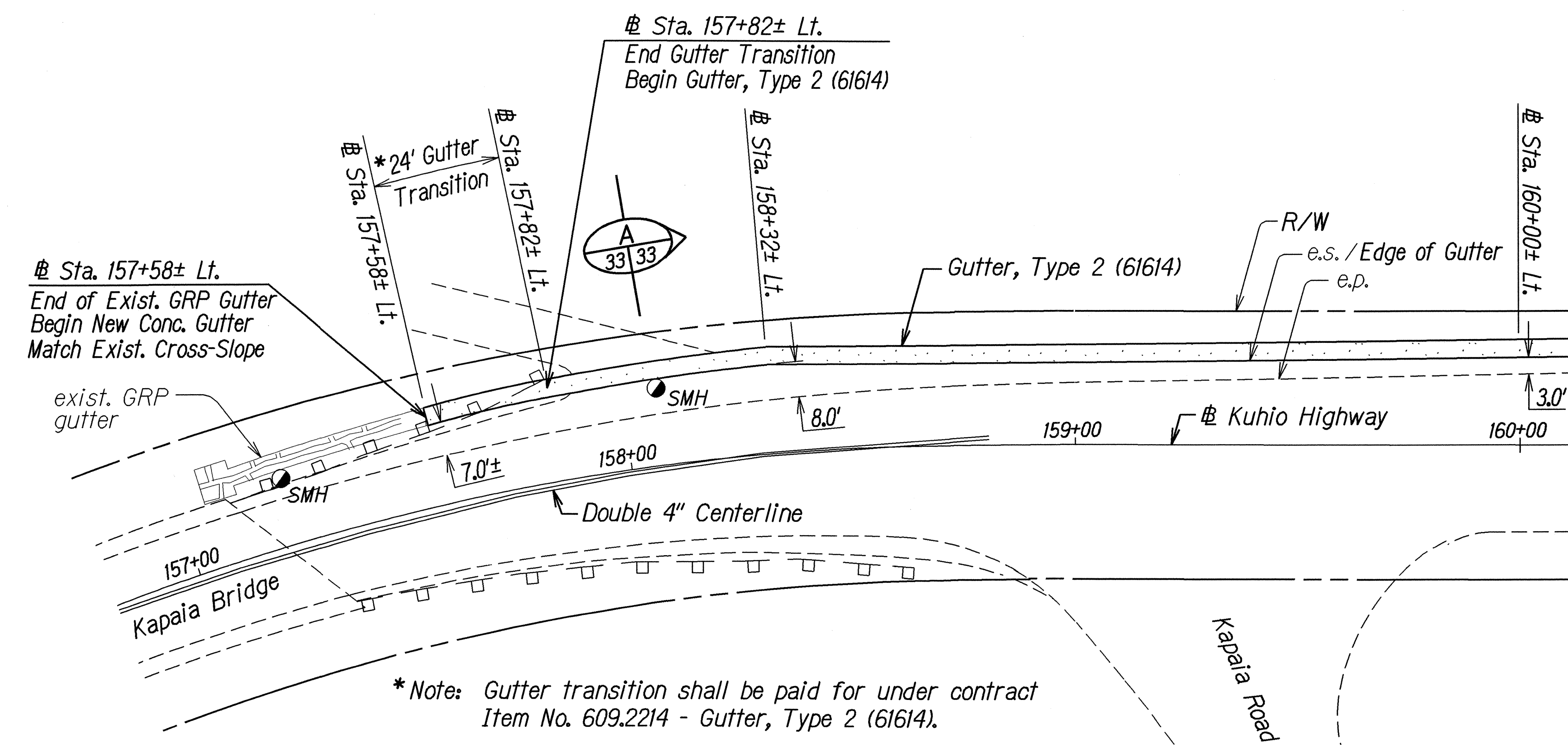
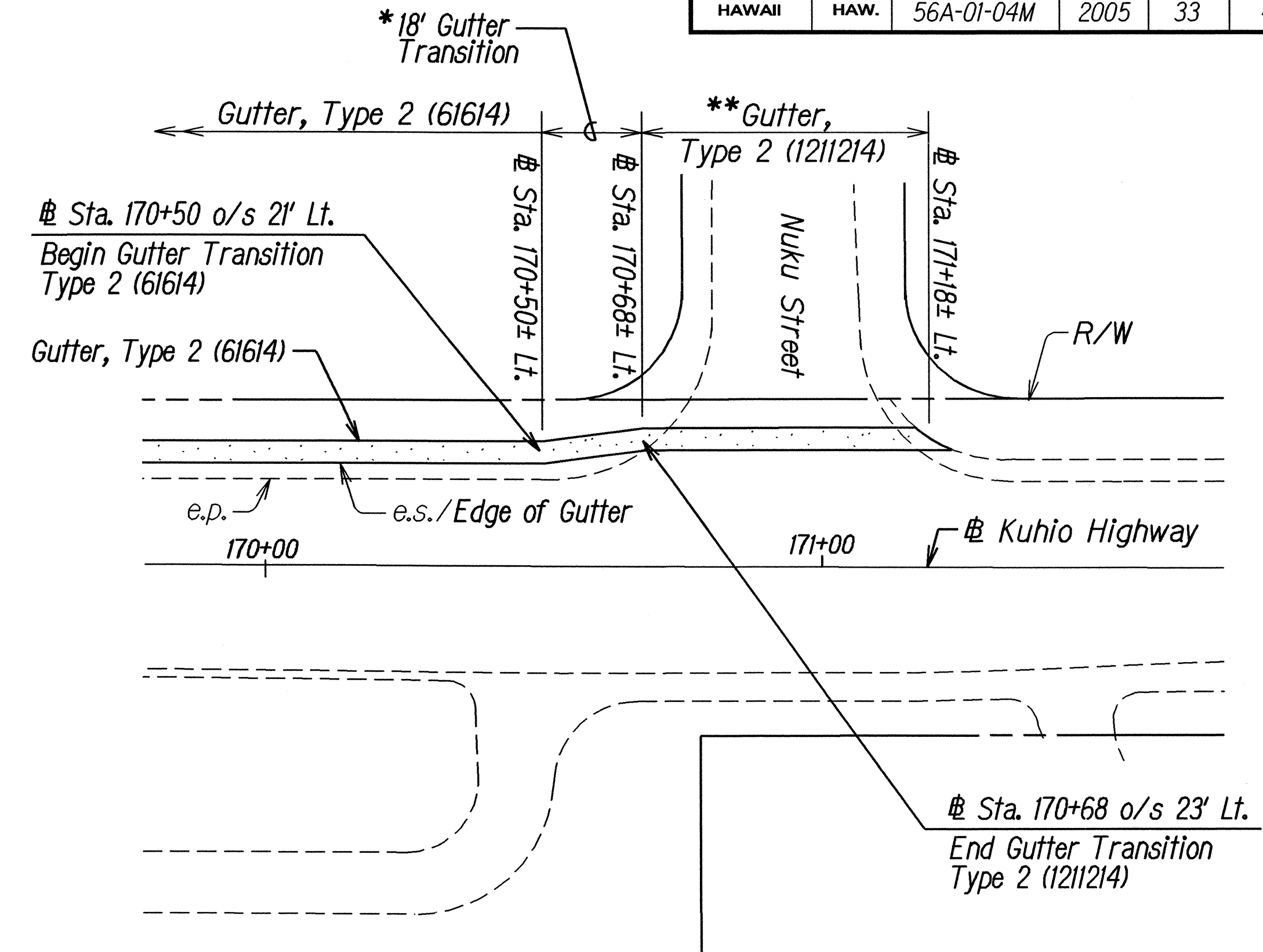


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	33	48

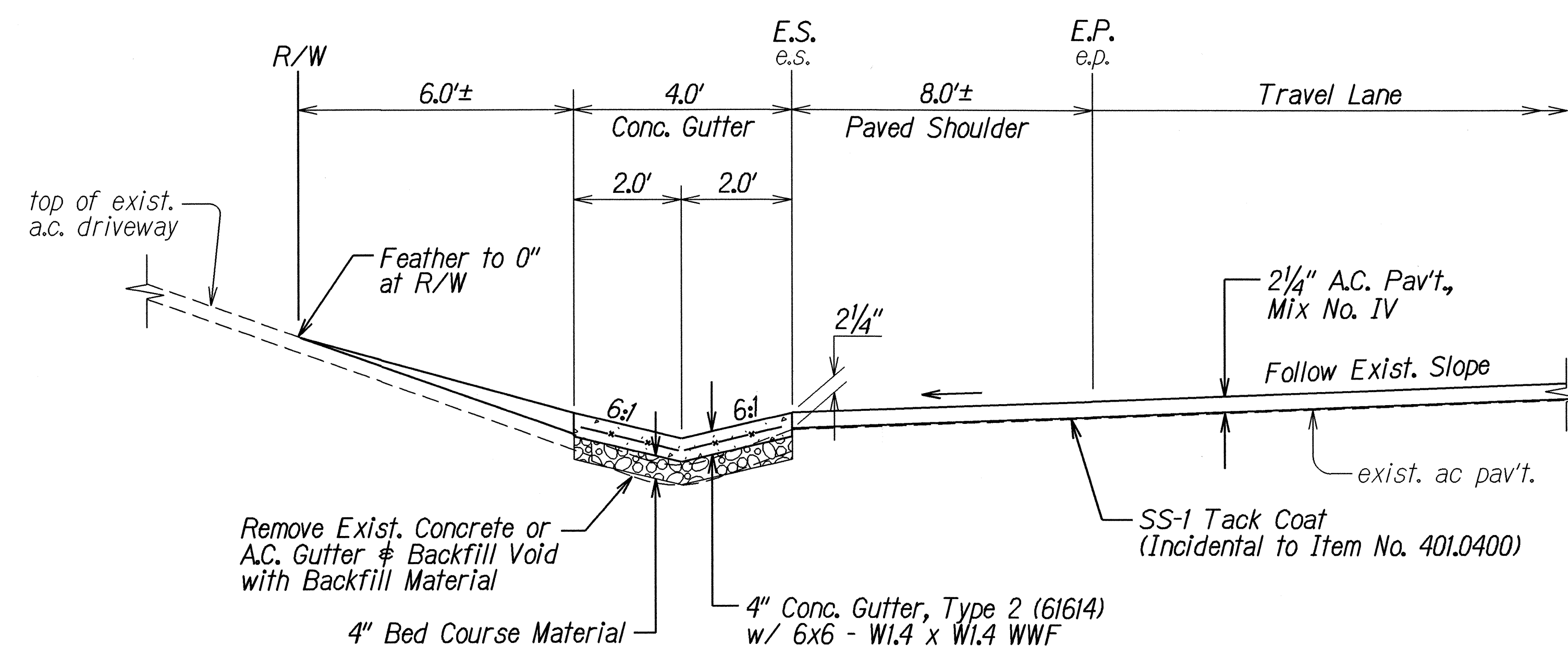


DRAINAGE IMPROVEMENT AT VICINITY OF KAPAIA BRIDGE
Scale: 1" = 20'



DRAINAGE IMPROVEMENT AT VICINITY OF NUKU STREET
Scale: 1" = 20'

- Notes:
- See Plan Sht. #12 for Resurfacing at Nuku Street.
 - Gutter transition shall be paid for under contract Item No. 609.2214 - Gutter, Type 2 (61614).
 - Gutter, Type 2 (1211214) shall be paid for under contract Item No. 609.2214 - Gutter, Type 2 (61614).



SECTION A
Not to Scale

SURVEY PLOTTED BY	DATE
DRAWN BY	2/27/04
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
REVISION	
BY	
DATE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

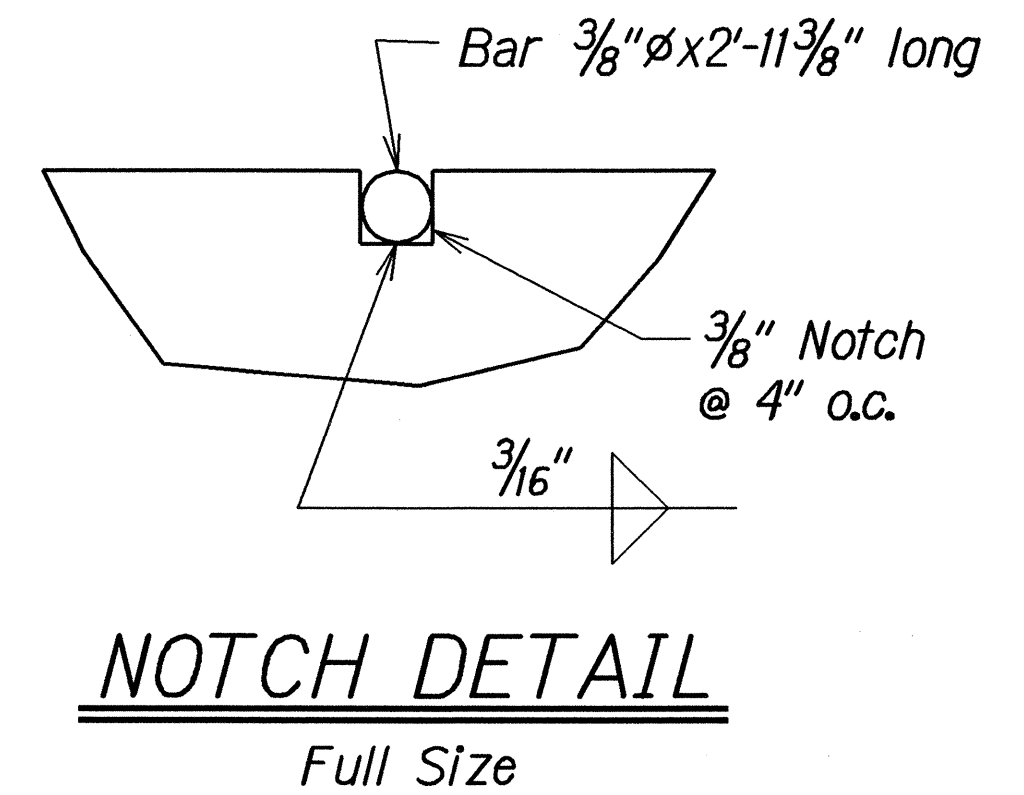
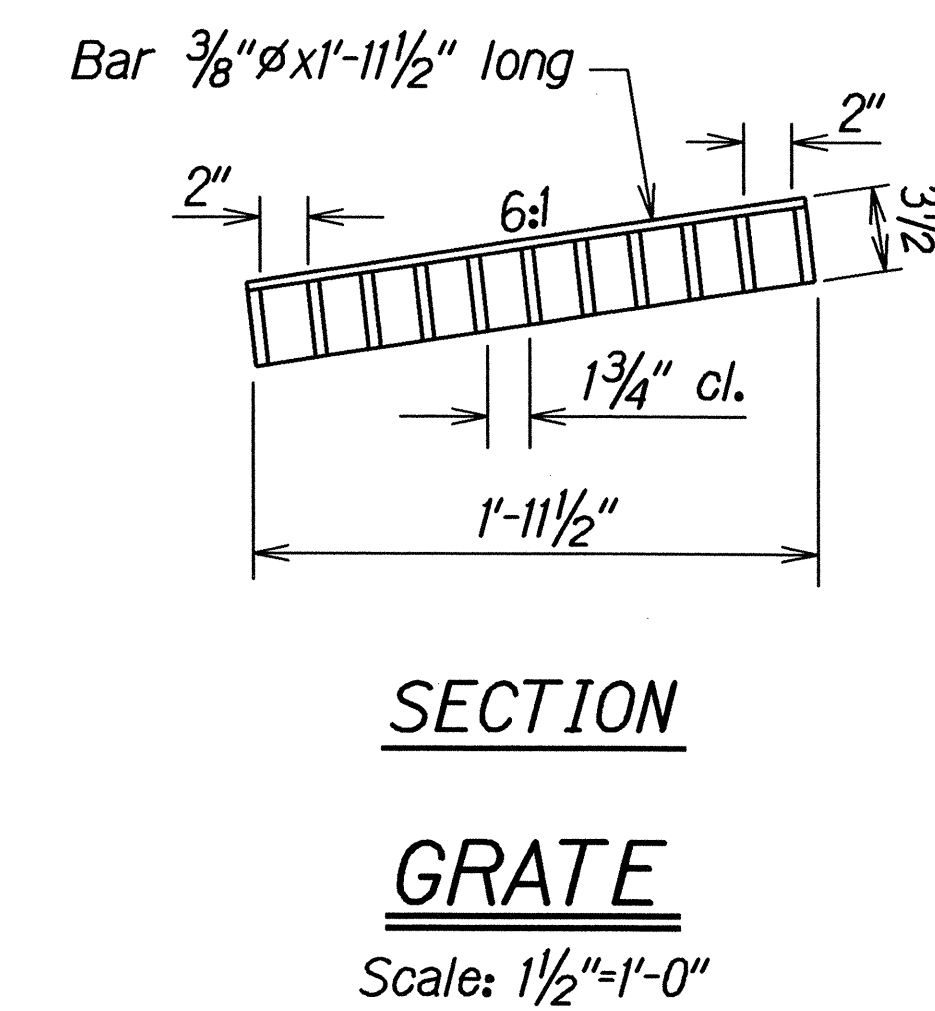
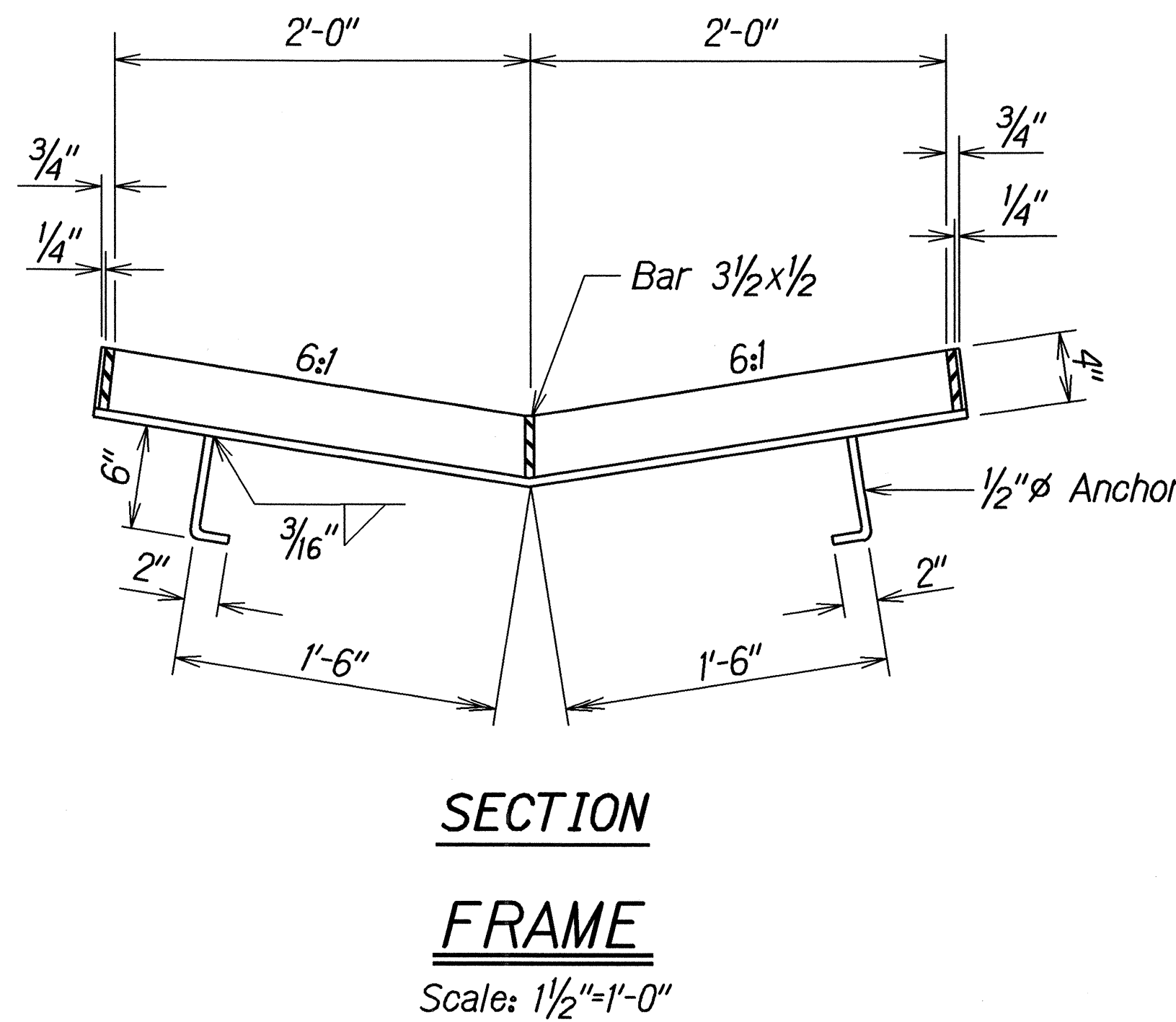
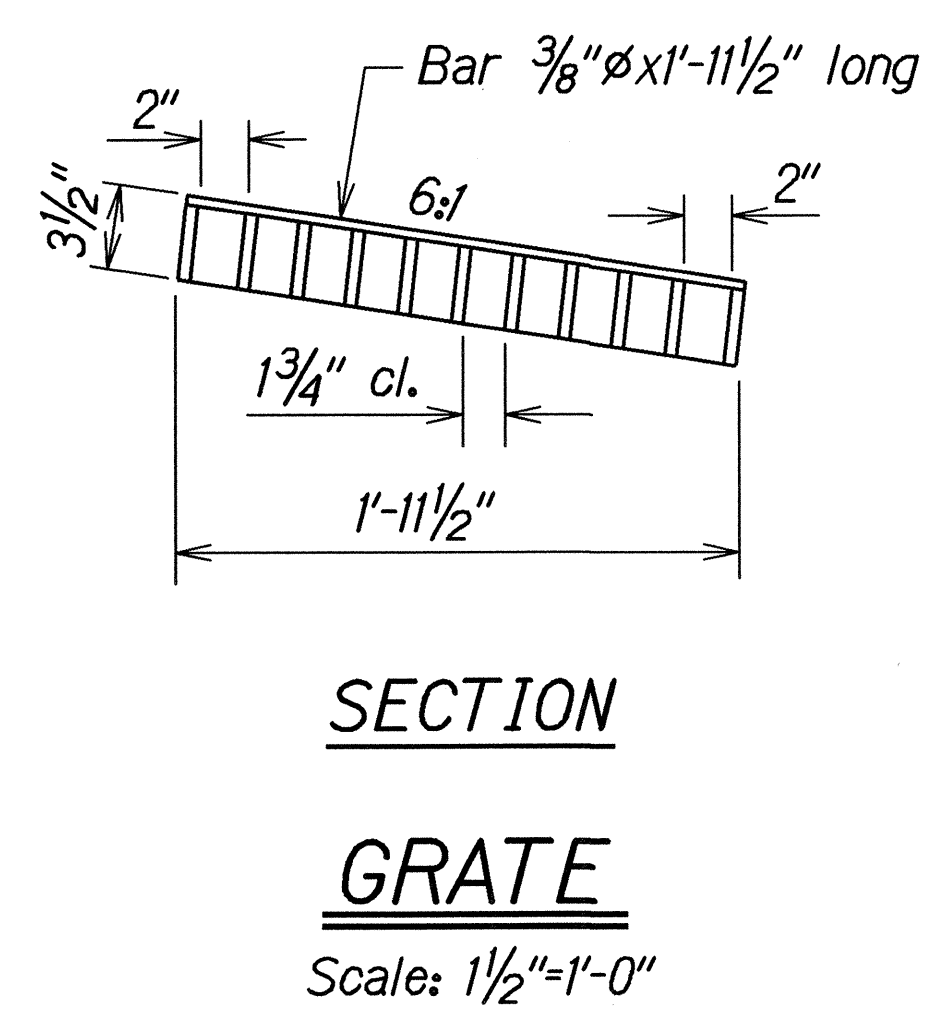
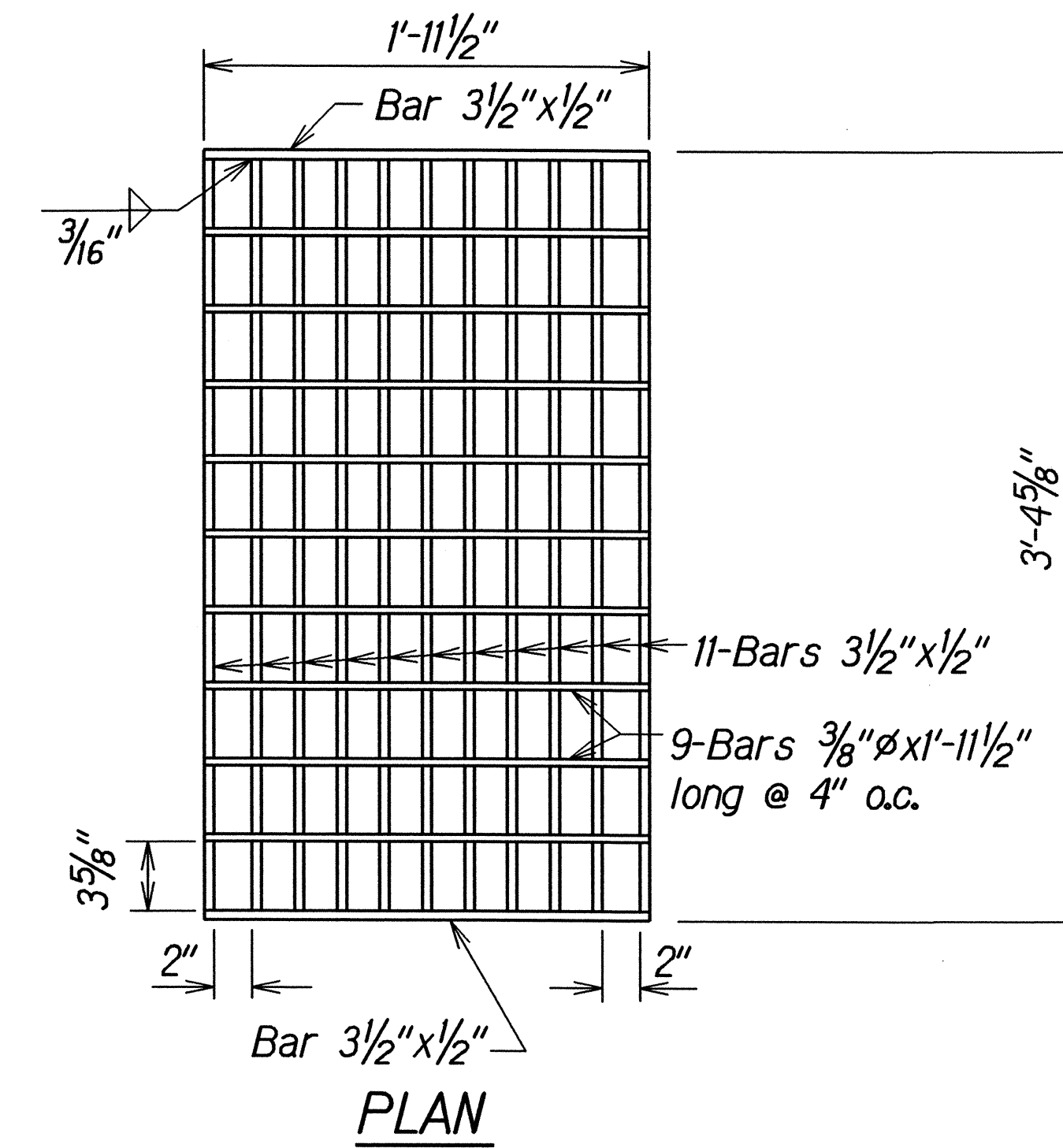
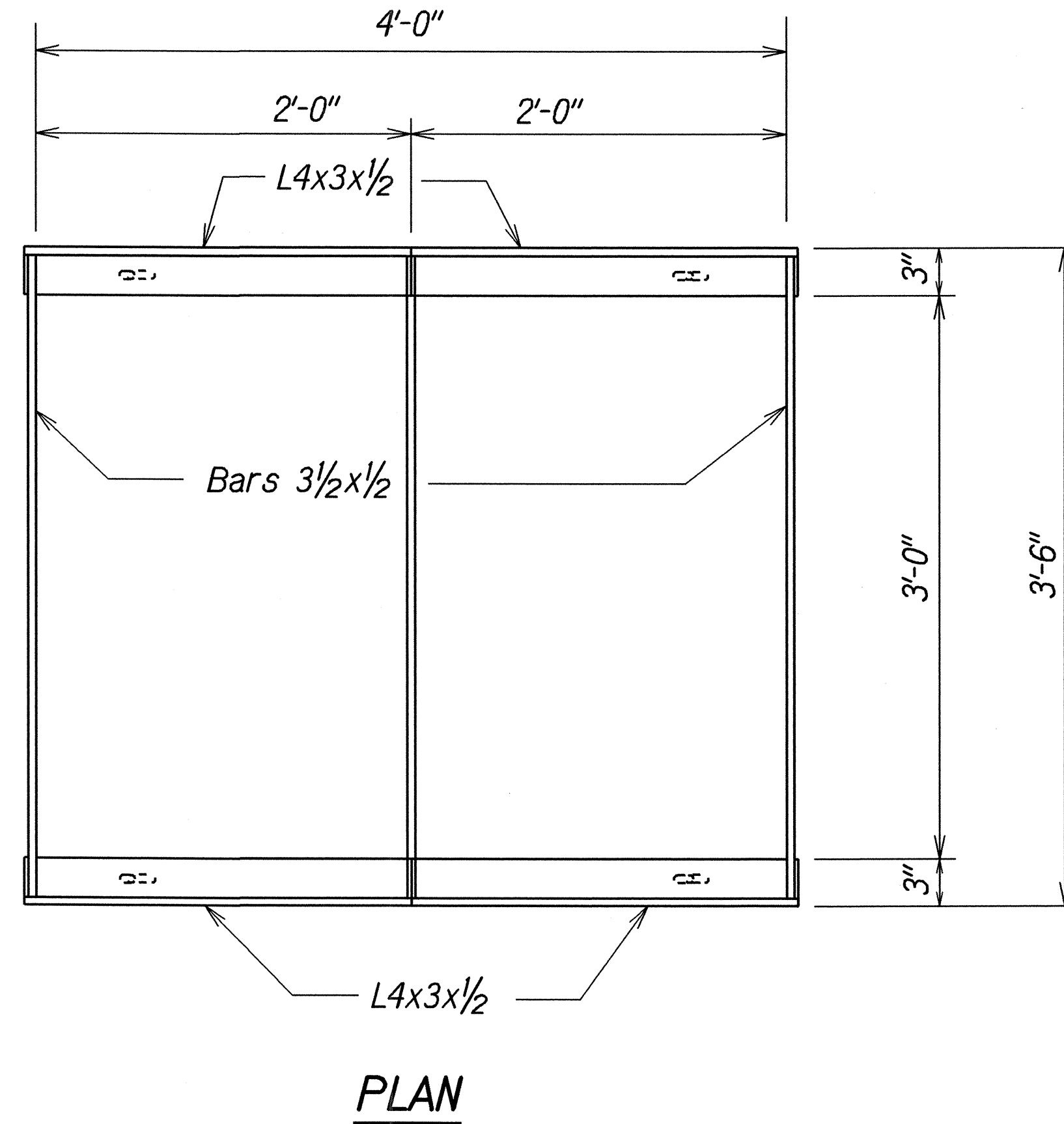
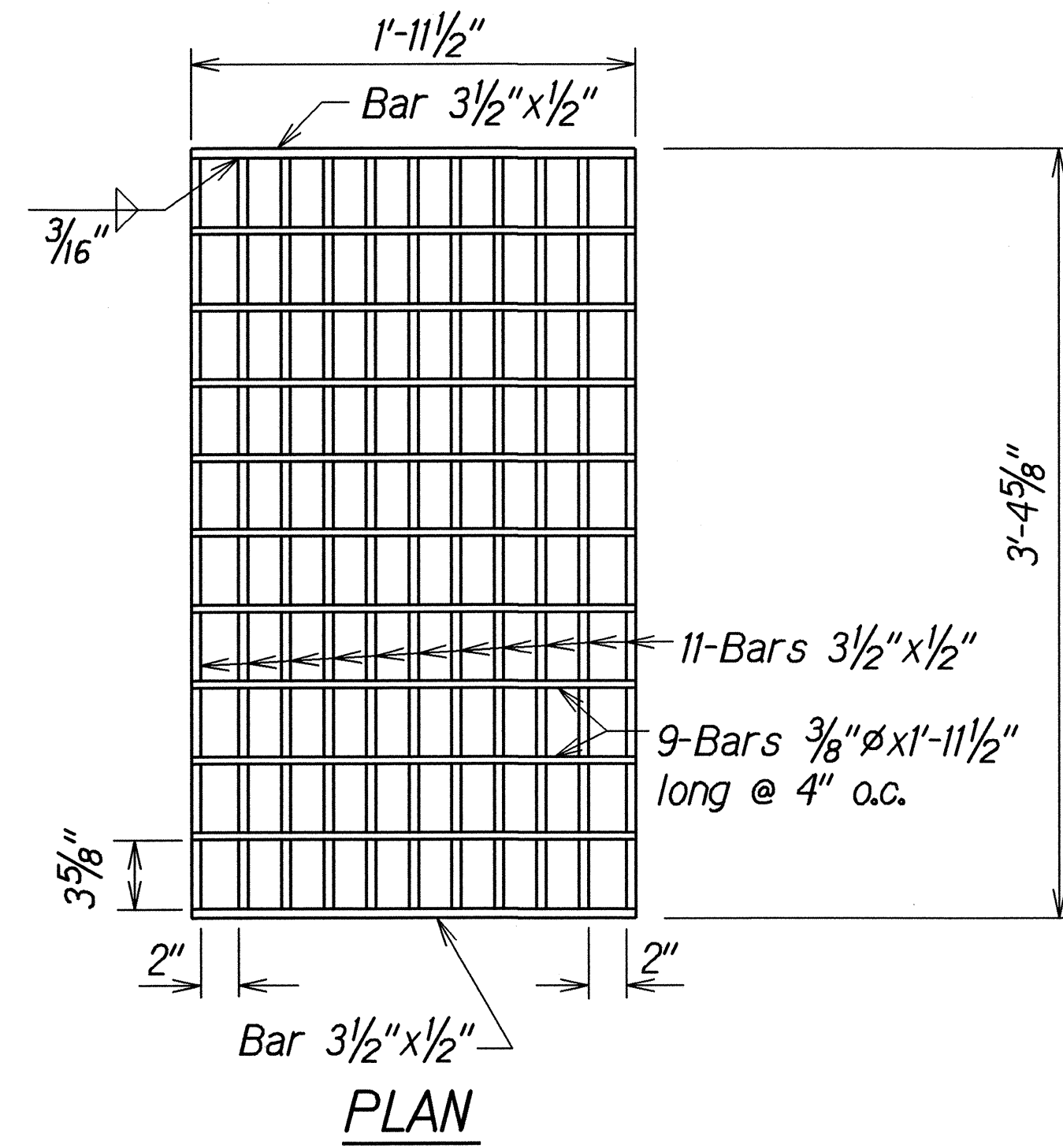
DRAINAGE DETAILS

KUHIO HIGHWAY RESURFACING
Vicinity of Hanamaulu
Project No. 56A-01-04M

Scale: As Shown Date: June 2004

SHEET No. 1 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	34	48



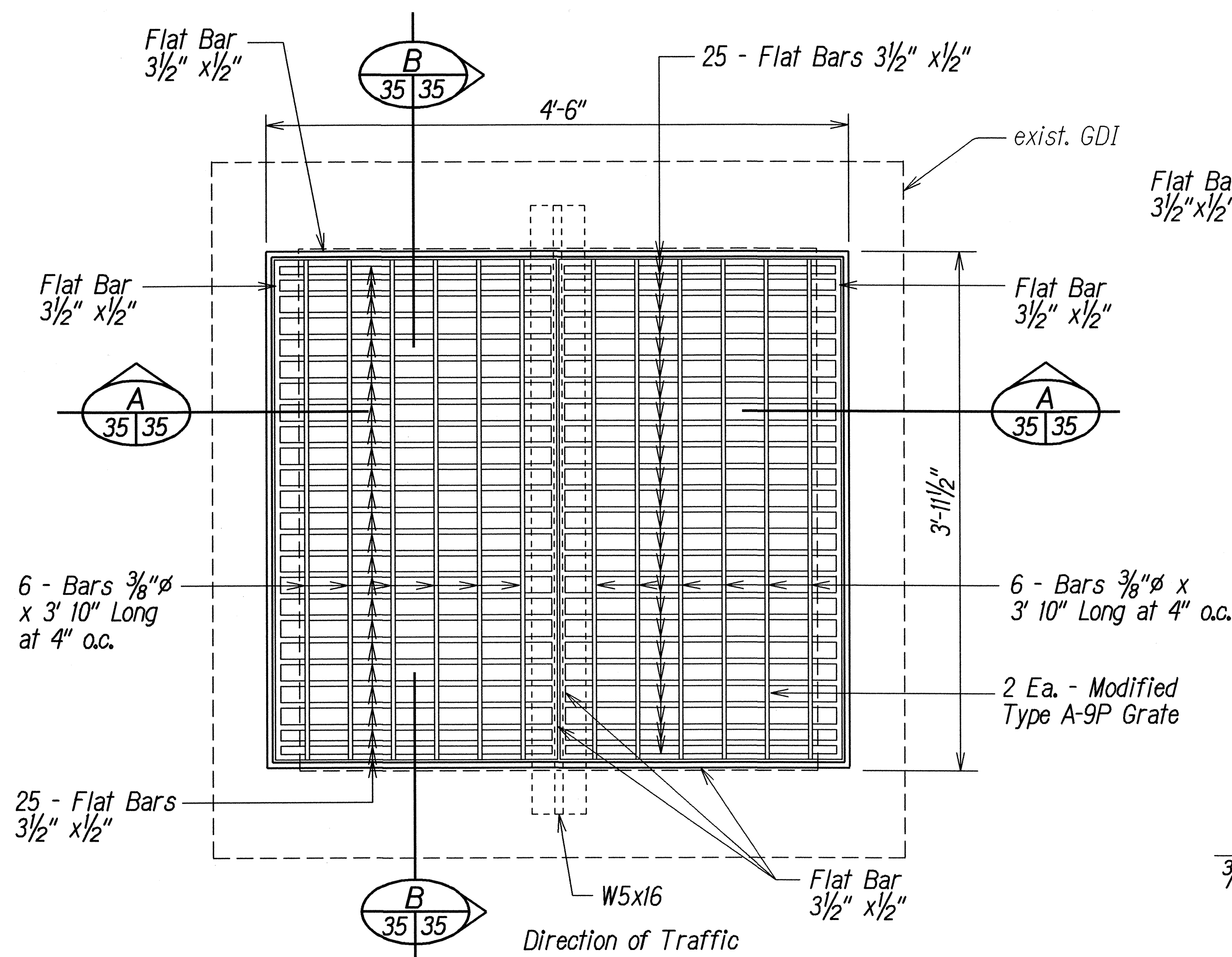
NOTE:
All welds 3/8" unless otherwise noted.

TYPICAL DETAILS OF TYPE 61614P STEEL FRAME AND GRATES

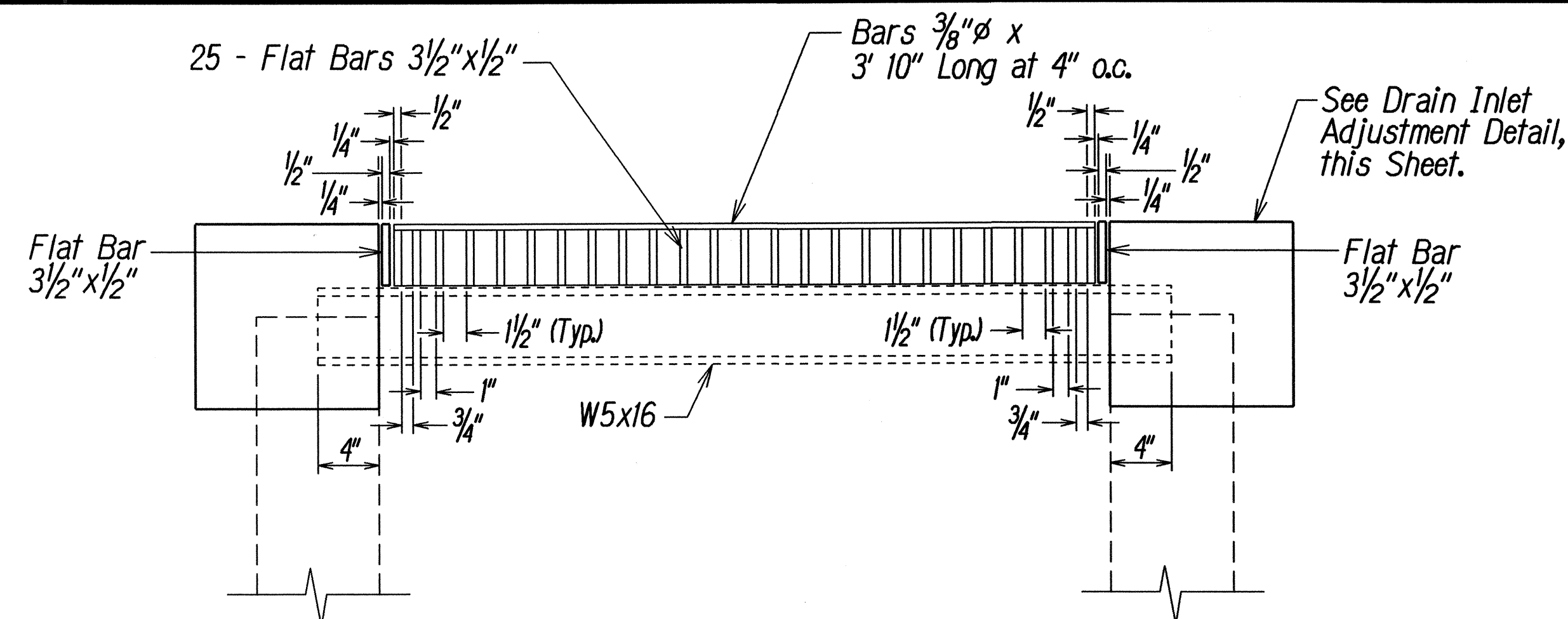
ORIGINAL PLAN	DATE	2/27/04
SURVEY PLOTTED BY		
DRAWN BY		
DESIGNED BY		
CHECKED BY		
NOTED BY		
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAINAGE DETAILS
KUHIO HIGHWAY RESURFACING Vicinity of Hanamaulu Project No. 56A-01-04M
Scale: As Shown Date: June 2004
SHEET No. 2 OF 4 SHEETS

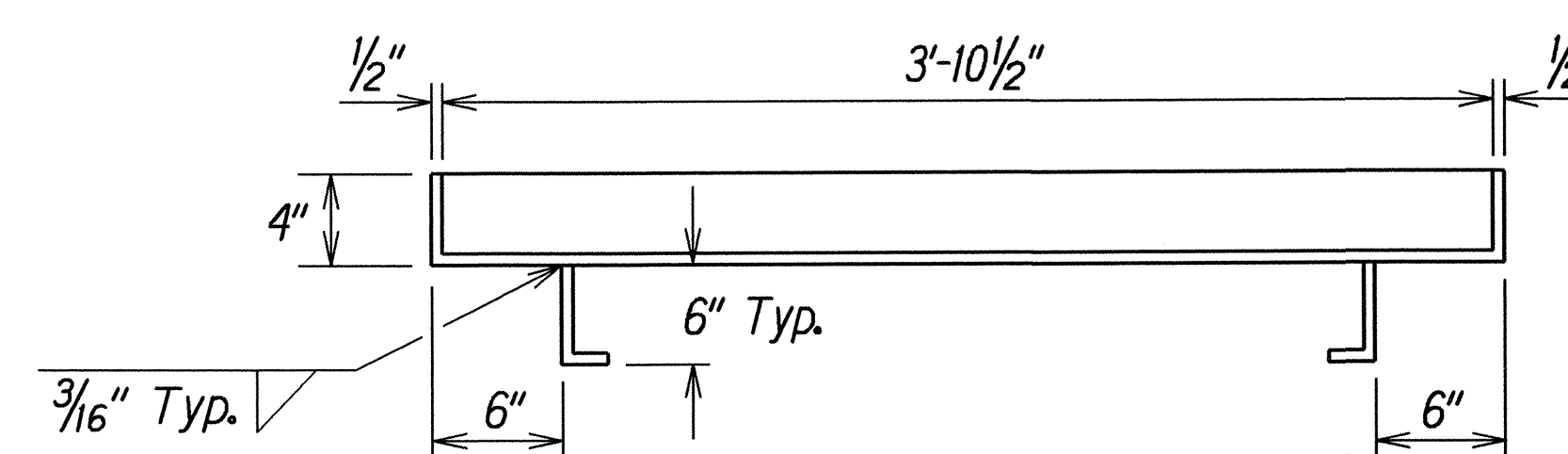
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	35	48



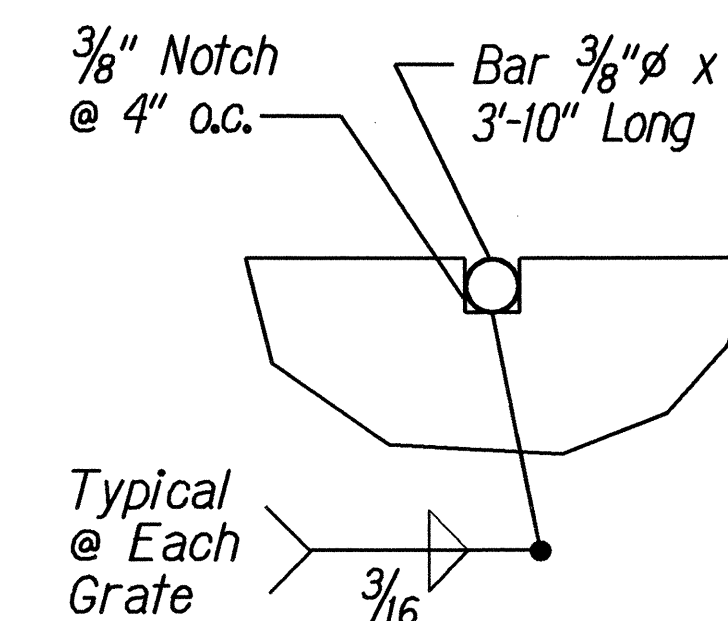
PLAN - DRAIN INLET ADJUSTMENT
AT STA. 178+55 & STA. 179+60 O/S LT.
Not to Scale



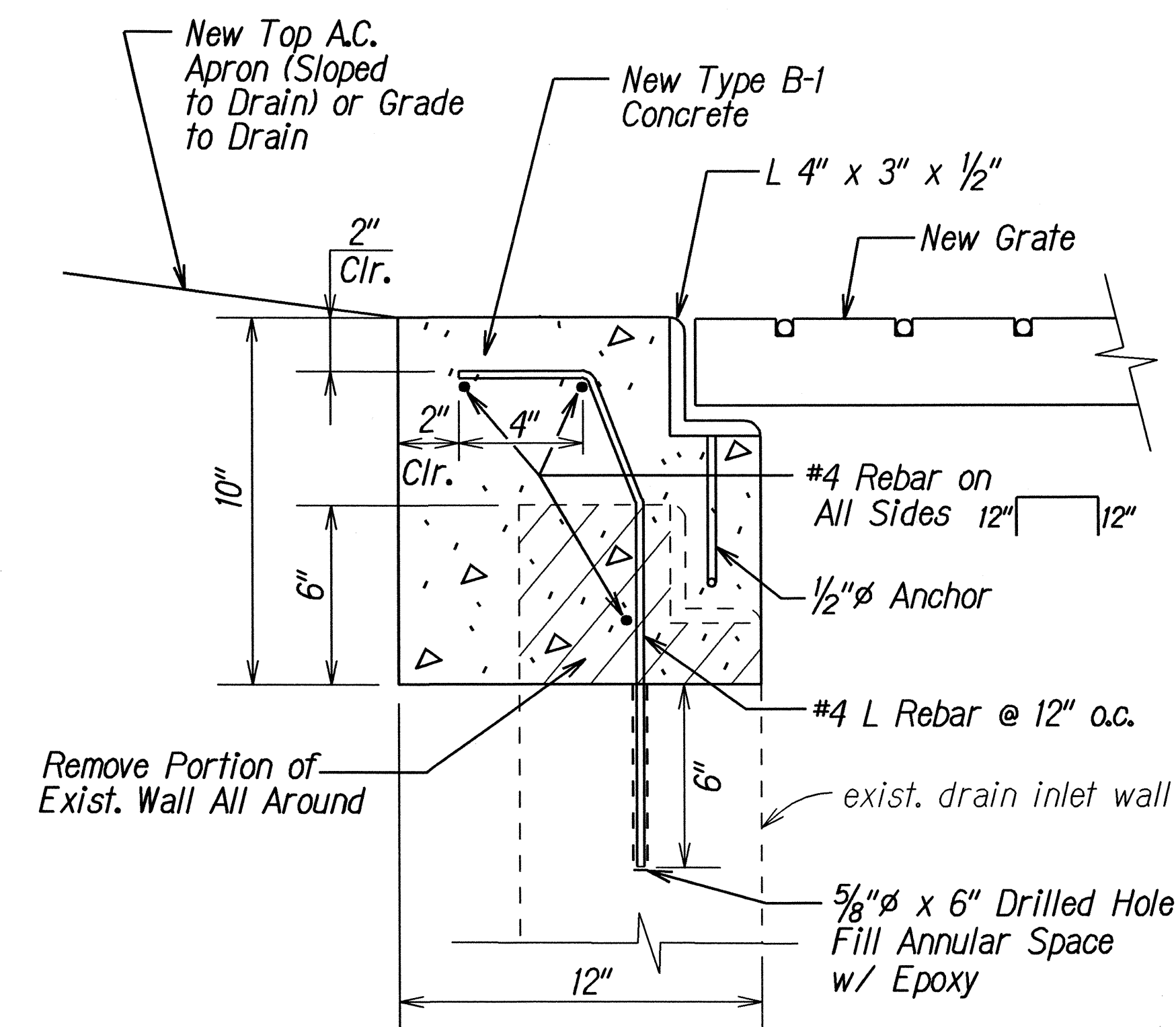
SECTION - GRATE
Not to Scale



SECTION - FRAME
Not to Scale

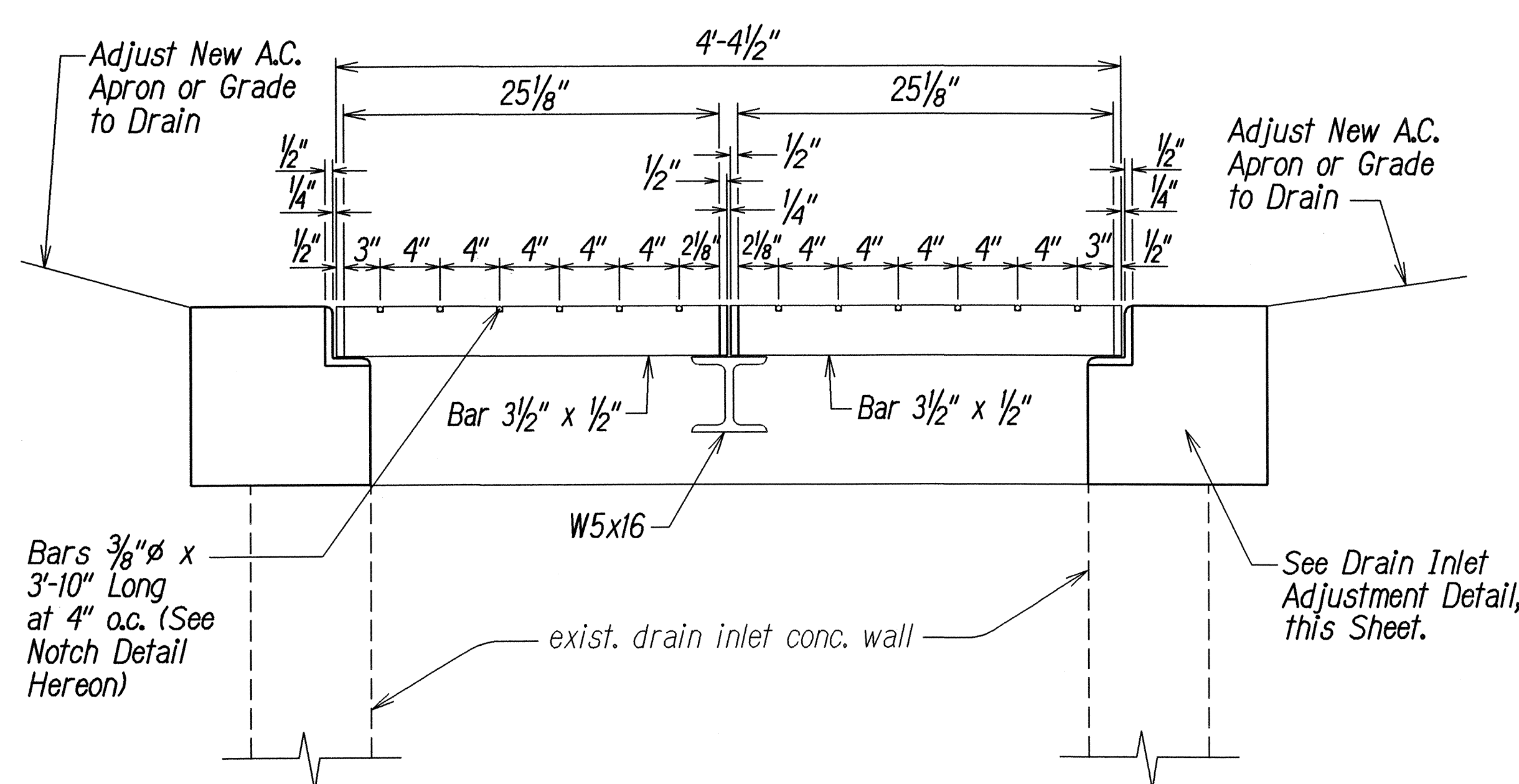


NOTCH DETAIL
Not to Scale

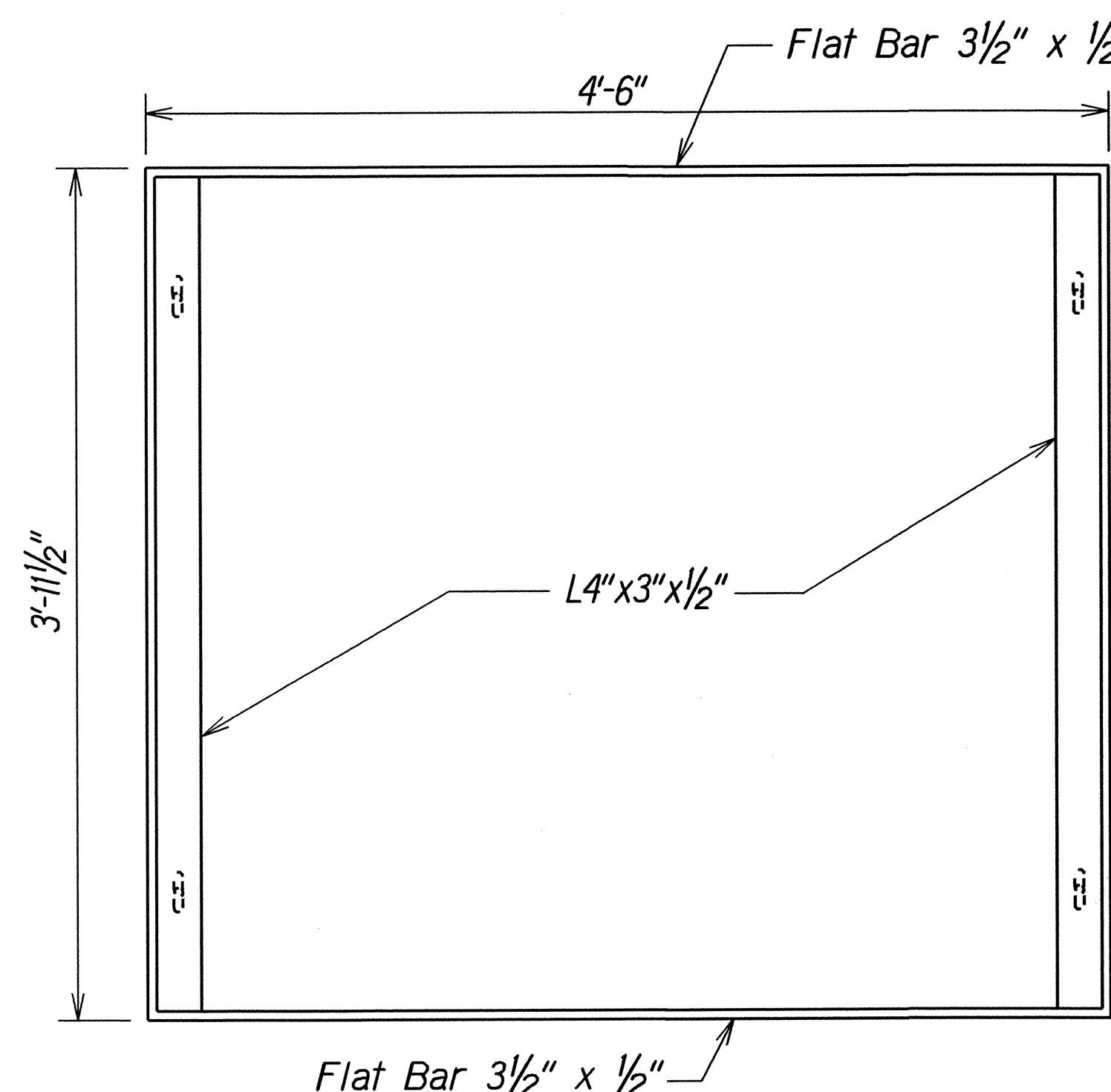


ADJUSTMENT DETAIL FOR DRAIN INLET
AT STA. 178+55 & STA. 179+60 O/S LT.
Not to Scale

NOTE: All notes shown on Plan Sht. #36 shall apply to the adjustment details on this sheet.



SECTION - GRATE
Not to Scale



PLAN - FRAME
Not to Scale

NOTE: Adjusting new A.C. apron and/or grading or backfilling at adjusted drain inlet locations shall not be paid for separately but shall be considered incidental to the various contract items for adjustment of GDI.

SURVEY PLOTTED BY	DATE
DRAWN BY	2/27/04
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

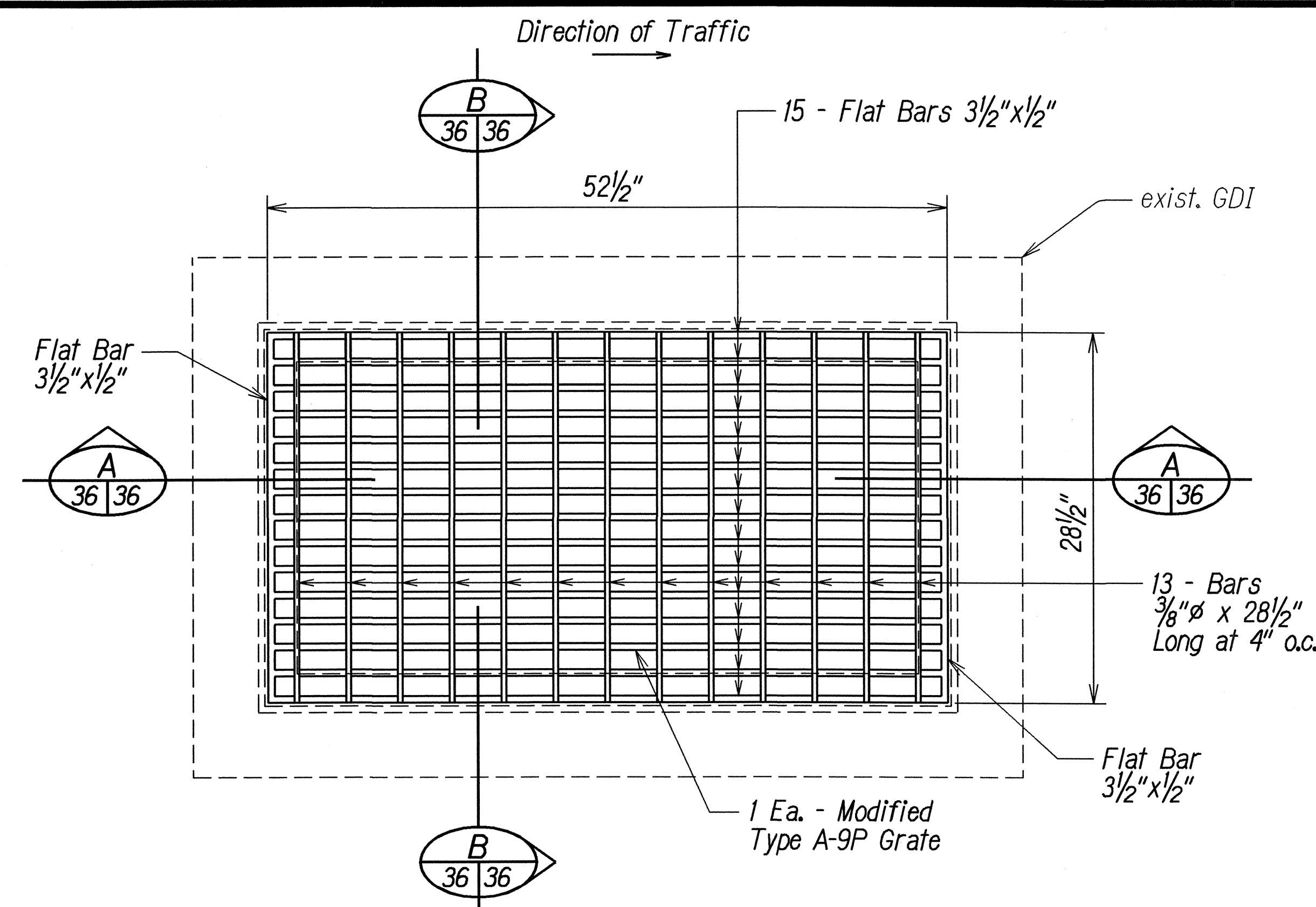
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

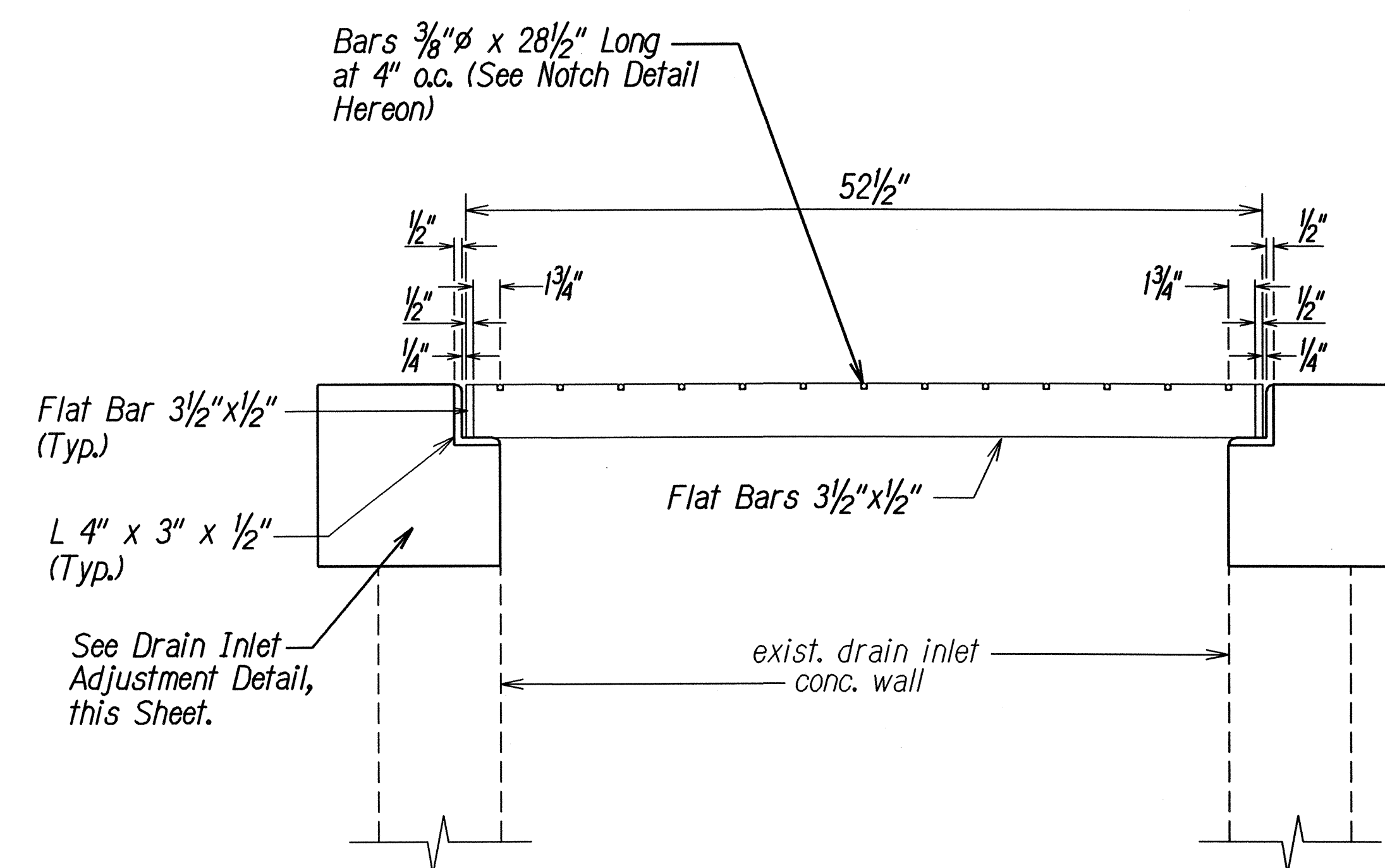
KUHIO HIGHWAY RESURFACING
Vicinity of Hanamaulu
Project No. 56A-01-04M

Scale: As Shown Date: June 2004
SHEET No. 3 OF 4 SHEETS

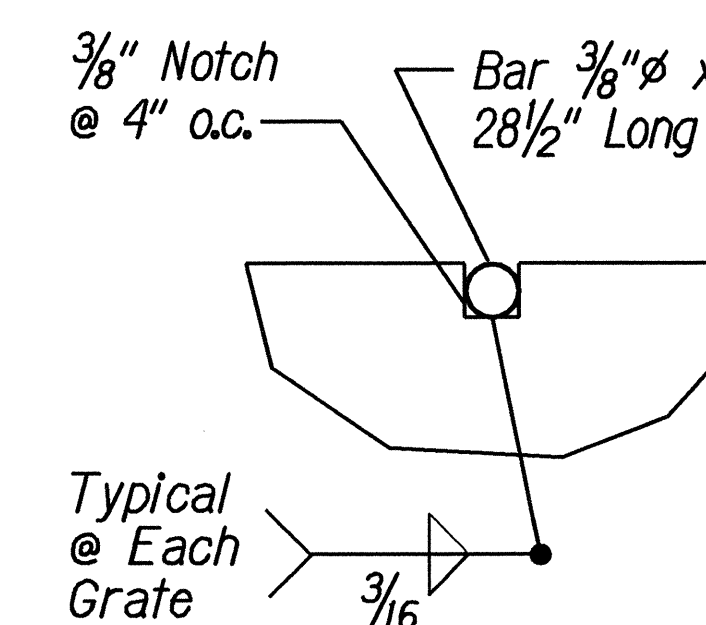
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	36	48



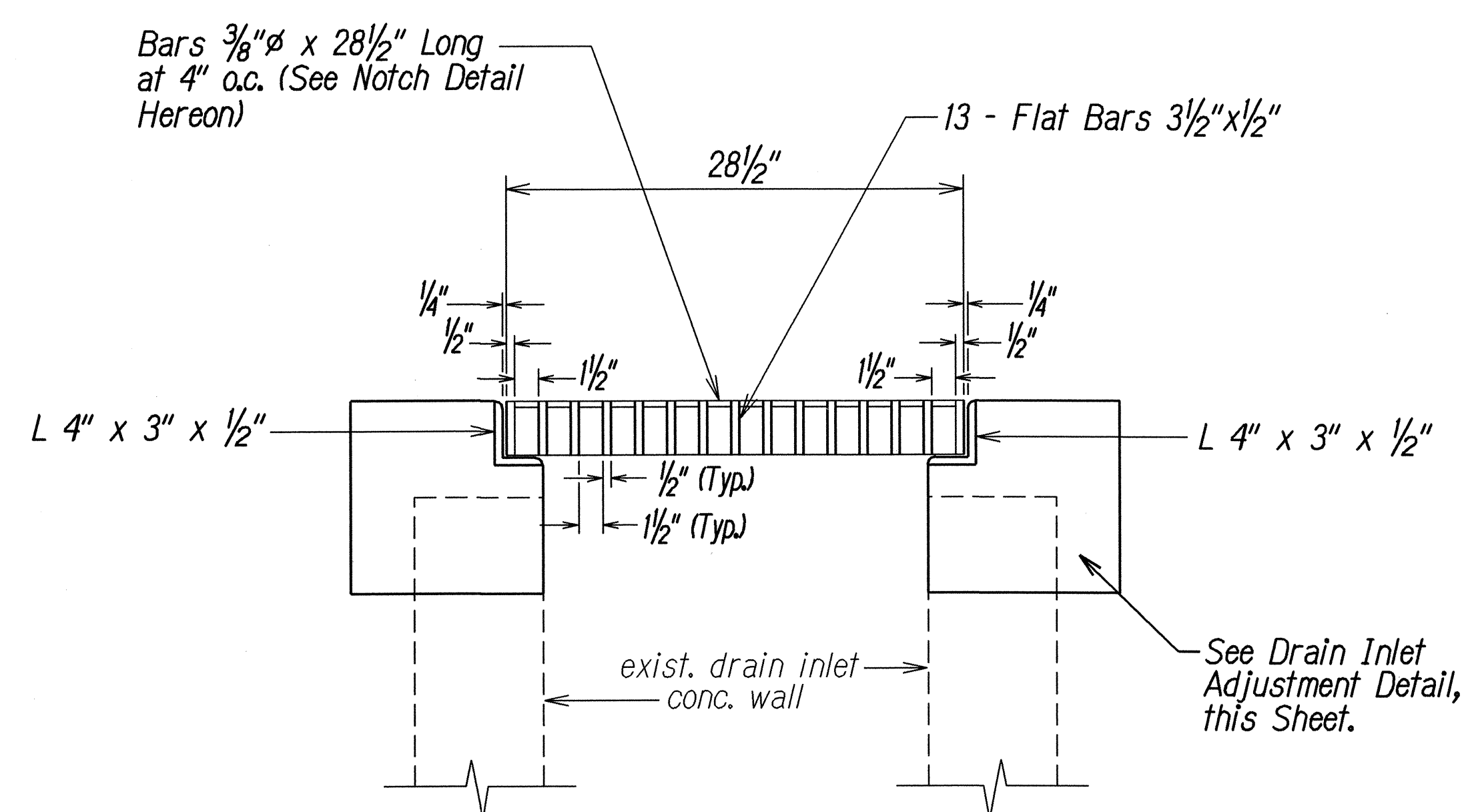
PLAN - DRAIN INLET ADJUSTMENT
AT STA. 202+20± 0/S RT.
Not to Scale



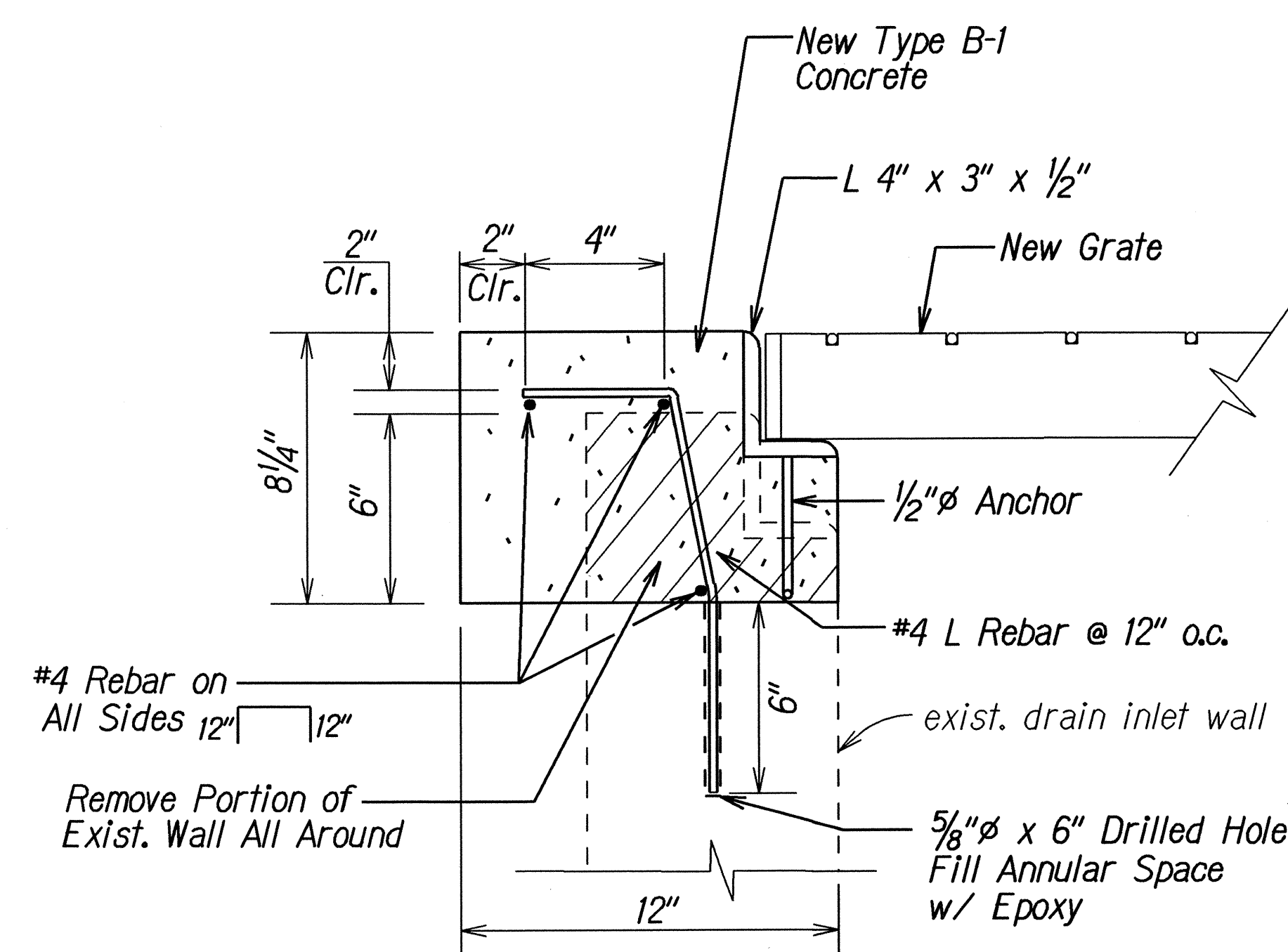
SECTION - GRATE
Not to Scale



NOTCH DETAIL
Not to Scale



SECTION - GRATE
Not to Scale



ADJUSTMENT DETAIL FOR DRAIN INLET
AT STA. 202+20± 0/S RT.
Not to Scale

NOTES:

1. The Contractor shall verify in the field the exact dimensions of the existing grated drop inlet to be adjusted.
2. All steel items shall be hot-dip galvanized after fabrication.
3. Apply two layers of zinc coating to all welded areas after fabrication.
4. Removing and disposing of existing steel frames, grates and concrete boxes or any portion(s) thereof, and furnishing and installing new steel frames, grates, concrete and reinforcing steel shall be considered incidental to the various contract items for adjusting grated drop inlets.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

KUHIO HIGHWAY RESURFACING
Vicinity of Hanamaulu
Project No. 56A-01-04M

Scale: As Shown Date: June 2004

SHEET No. 4 OF 4 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	2/27/03
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
REVISIONS	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	