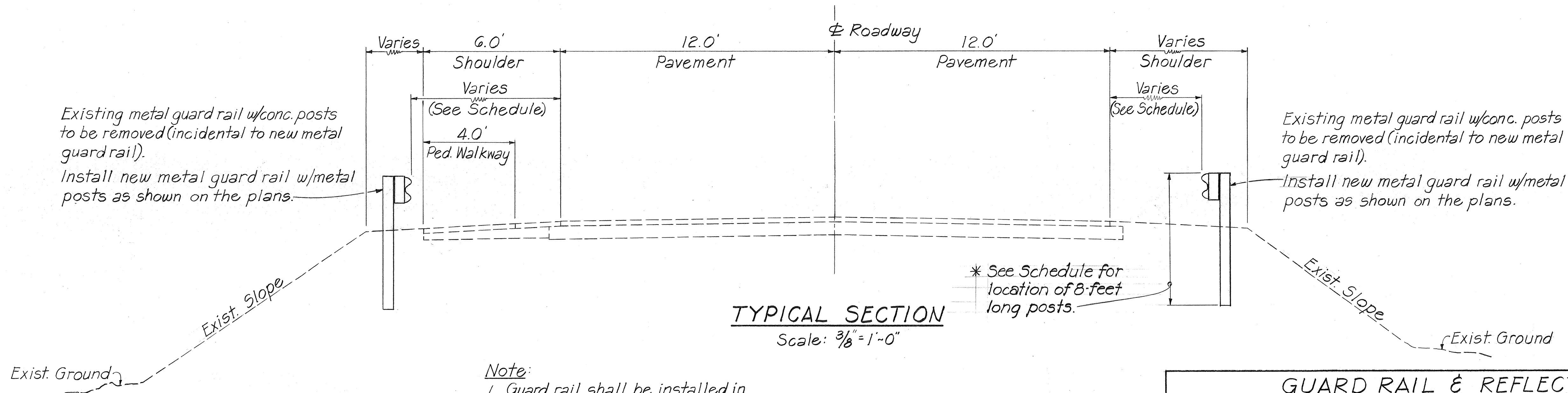


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	270B-01-81	1981	5	14

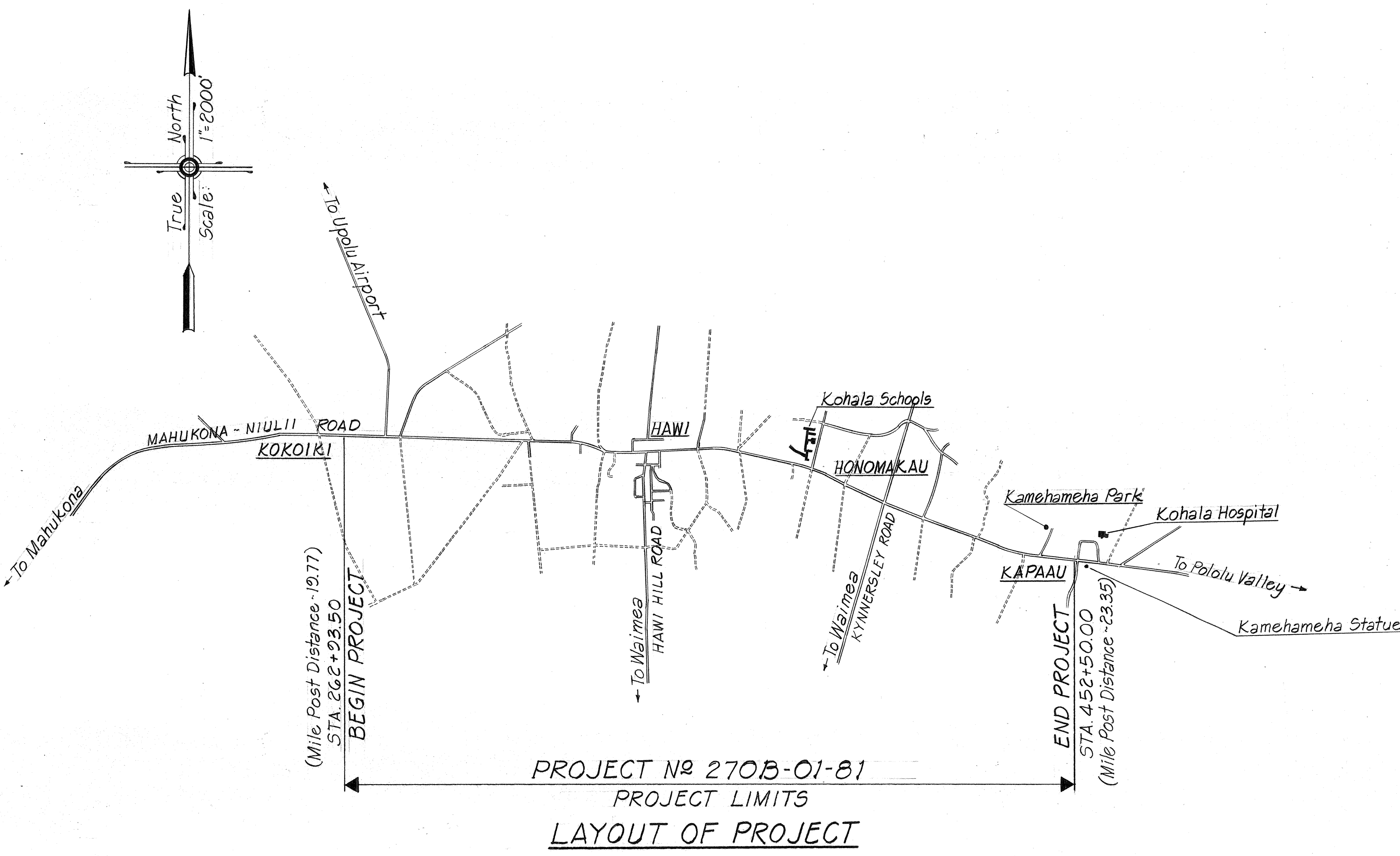


Note:
 1. Guard rail shall be installed in accordance with standard Detail Sheet DT 500 except as shown above.
 2. All removed guard rail appurtenances shall be salvaged and stockpiled at Waimea Maintenance Baseyard by contractor (incidental to new metal guard rail)

GUARD RAIL & REFLECTOR MARKER SCHEDULE										
REMOVAL (EXISTING)				INSTALLATION (NEW)						
GUARD RAIL				GUARD RAIL				REFLECTOR MARKER		
BEGIN STATION	END STATION	LINEAR FEET	CONCRETE POST	BEGIN STATION	END STATION	LINEAR FEET	TYPE FLARE	EDGE OF PAVT. TO G.R. FACE	RM-2	RM-3
262+03.5 L			1	262+03.5 L&R						1 2
280+30 R			3	280+30 L&R						1 2
281+15 L	283+17 L	202	23	281+15 L	283+20 L	182.5	BCT & G	5.5'		
283+75 L	285+63 L	188	21	283+75 L	285+65 L	162.5	G & BCT	5.5'		
				291+00 L	295+70 L	516.5	BCT & C	10.0'		
				291+00 L	295+70 L	441.6	C & F	7.0'		
				303+37 L						1
304+62 L&R			1	304+62 L&R						2
				305+00 R	307+50 R				5	
307+25 R		14	2	307+25 R		16.6	12.5			
308+15 R			1	308+15 R						1
				308+60 R	309+20 R				2	
				285+00 L&R						2
329+30 R	331+40 R	211	25	329+10 R	331+72 R	202.1	237.5	BCT & G	4.0	
332+10 R	332+55 R		6						3	
354+00 R			1	354+00 L&R						2
365+50 R			3	365+50 L&R						2
371+00 R			2	371+00 L&R		316.2				2
384+29 L	386+67 L	238	27	383+20 L	387+00 L	312.5	F & C	8.0'		
397+00 R			2	397+00 L&R						2
406+50 L			2	406+50 L&R		591.2			1 2	
433+20 R	437+70 R	450	51	432+30 R *	438+20 R	600	C & G	2.0'		
				445+77 R						+
448+17 L&R		36	4	448+00 L	448+20 L	22.0	25			
				447+20 R	448+40 R	54.1	50	G	6.0'	
452+00 L	452+50 L	50	5	452+00 L	452+50 L	54.1	50	G	6.0'	
				385+50 L		2,575.5				1
TOTALS		1389	180	TOTALS		2550			10	8+9

*Sta. 433+20 to Sta. 437+10 R Guard Rail Posts to be 8.0' Long.

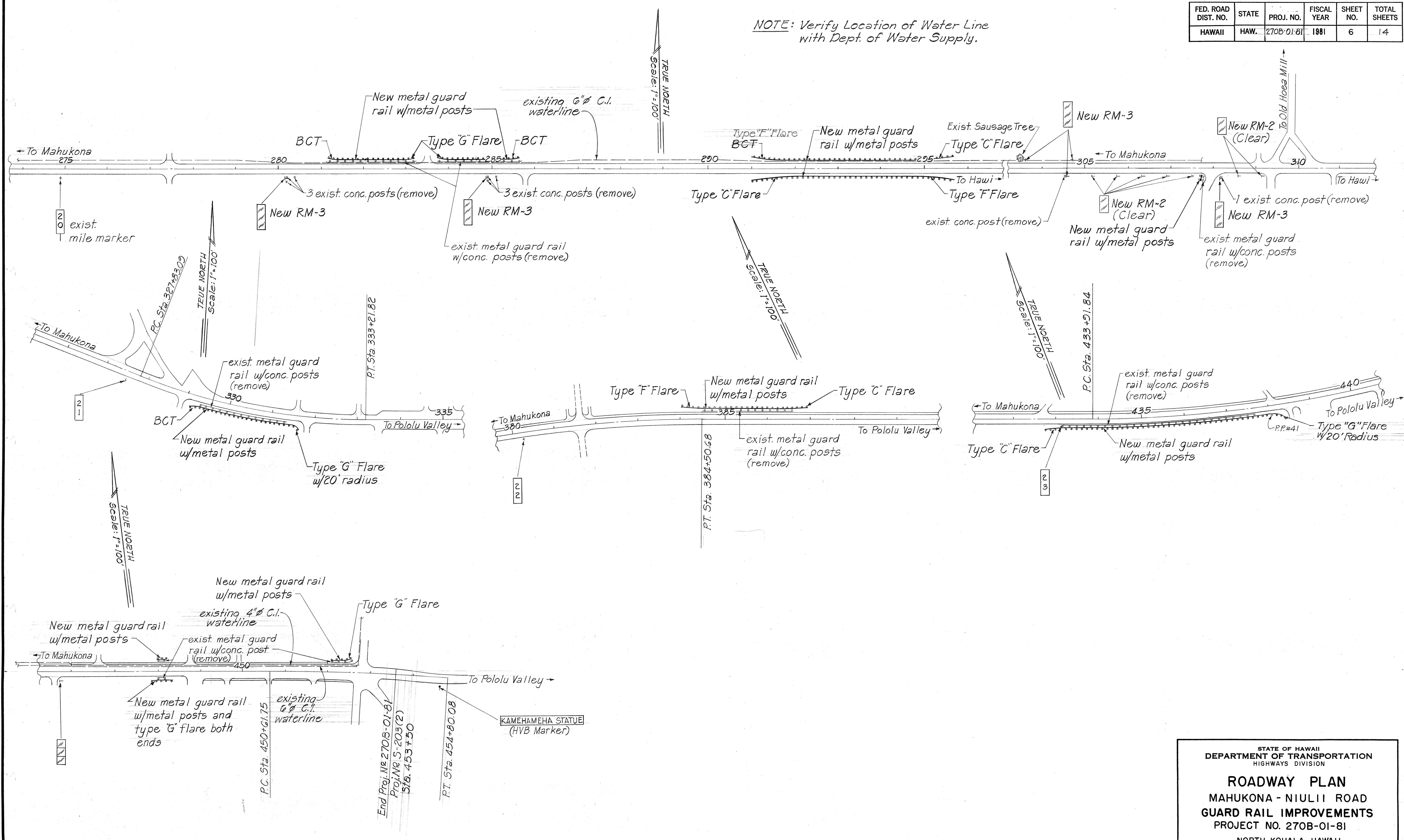
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
**TYPICAL SECTION, LAYOUT,
 AND GUARD RAIL SCHEDULE**
 MAHUKONA - NIULII ROAD
 GUARD RAIL IMPROVEMENTS
 PROJECT NO. 270B-01-81
 NORTH KOHALA, HAWAII
 Scale: As Noted Date: April 1980
 SHEET NO. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	270B-01-81	1981	6	14

NOTE: Verify Location of Water Line with Dept. of Water Supply.



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
MAHUKONA - NIULII ROAD
GUARD RAIL IMPROVEMENTS
PROJECT NO. 270B-01-81
NORTH KOHALA, HAWAII

Scale: 1" = 100' Date: April 1980
SHEET NO. 2 OF 2 SHEETS