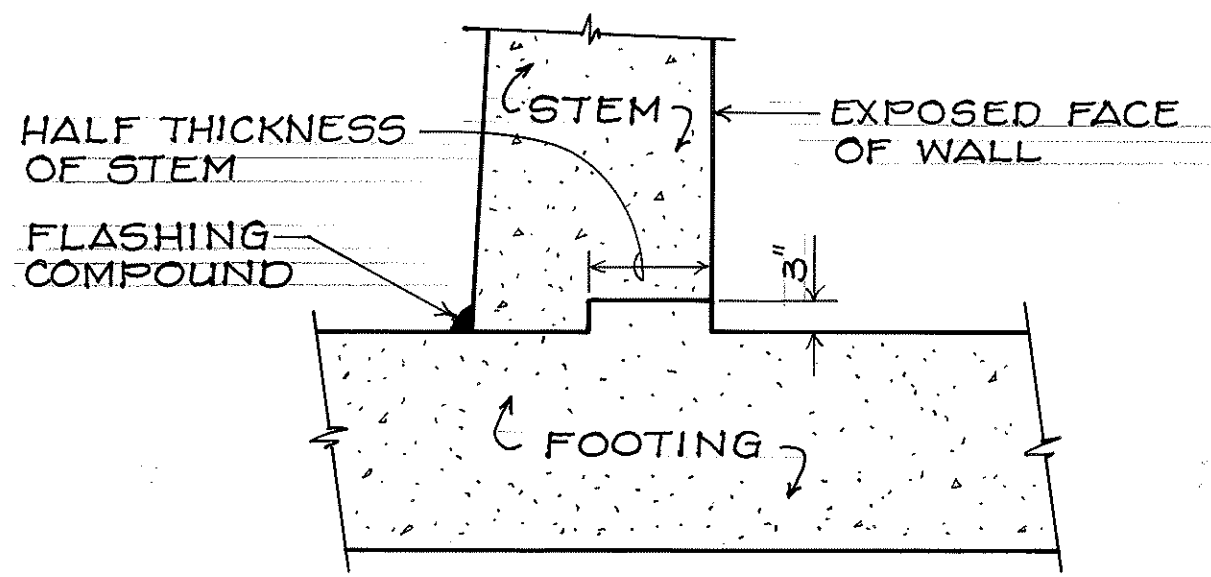


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY - H-01-86	1987	39	115

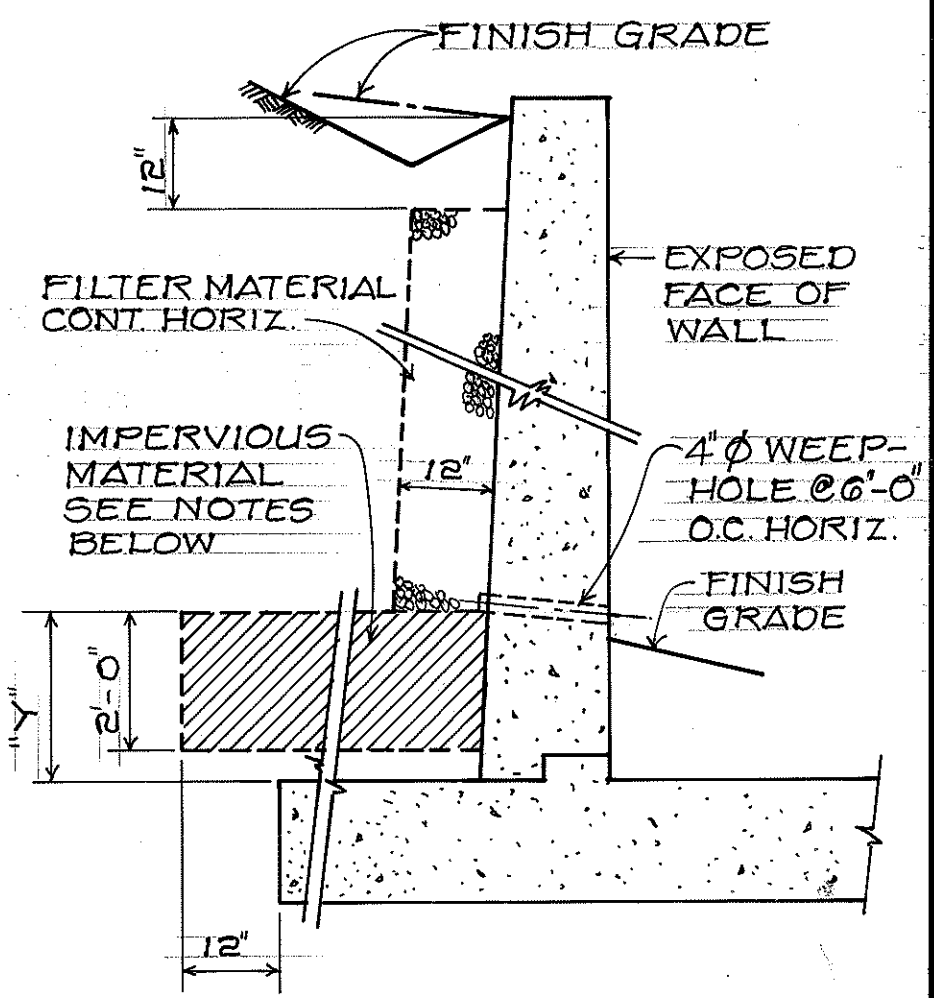


NOTE:~ APPLIES TO REINFORCED CONC. WALLS ONLY.

3 **TYPICAL STEM/FOOTING KEY**

39 **DETAIL FOR REINFORCED CONC. WALLS**

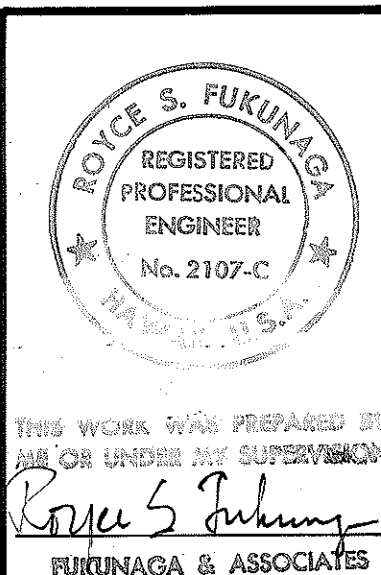
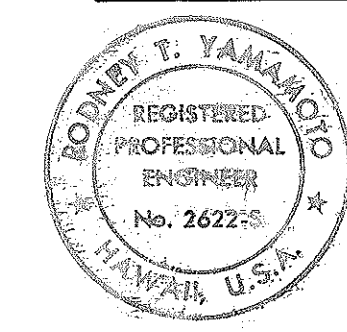
NO SCALE



REINFORCED CONCRETE WALL

- NOTES:~ IMPERVIOUS MATERIAL
1. IMPERVIOUS MATERIAL AS SELECTED BY THE ENGINEER SHALL BE INCIDENTAL TO STRUCTURE BACKFILL WHEN "Y" IS 2'-0" OR LESS, ALL BACKFILL BELOW WEEPHOLE LEVEL SHALL BE IMPERVIOUS MATERIAL.
 2. THE SUBGRADE UPON WHICH FILTER MATERIAL IS TO BE PLACED SHALL BE MADE AS IMPERVIOUS AS POSSIBLE BY PNEUMATIC TAMPING OR OTHER APPROVED METHODS.

4 **DETAILS- PLACEMENT OF FILTER MATERIAL & IMPERVIOUS MATERIAL FOR RETAINING WALL**



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRIPING AND WALL DETAILS

MAUNA KEA OBSERVATORY ACCESS ROAD
PHASE I

PROJECT NO. HWY - H-01-86

SCALE: AS SHOWN

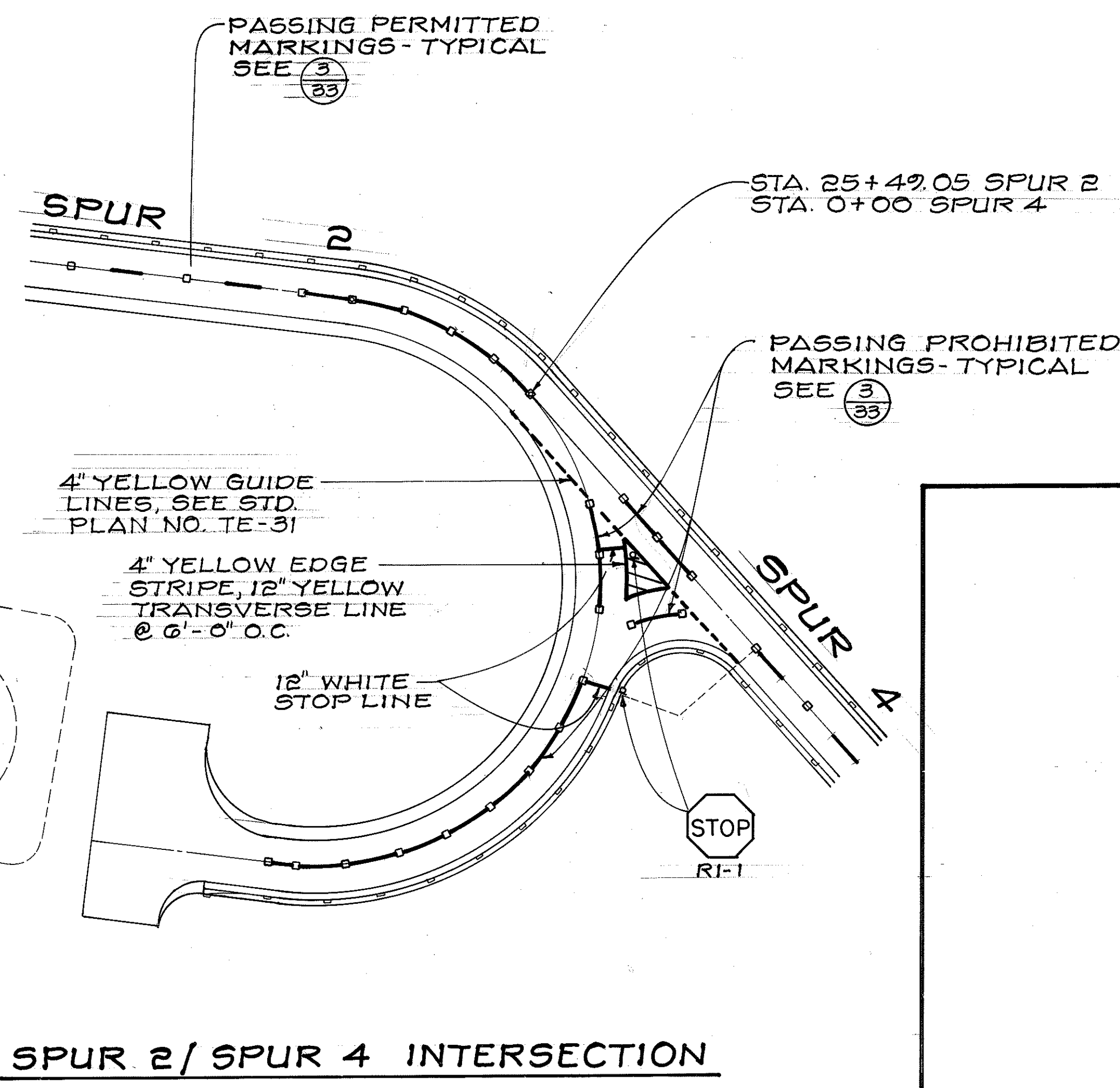
SHEET NO. 1 OF 1 SHEETS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

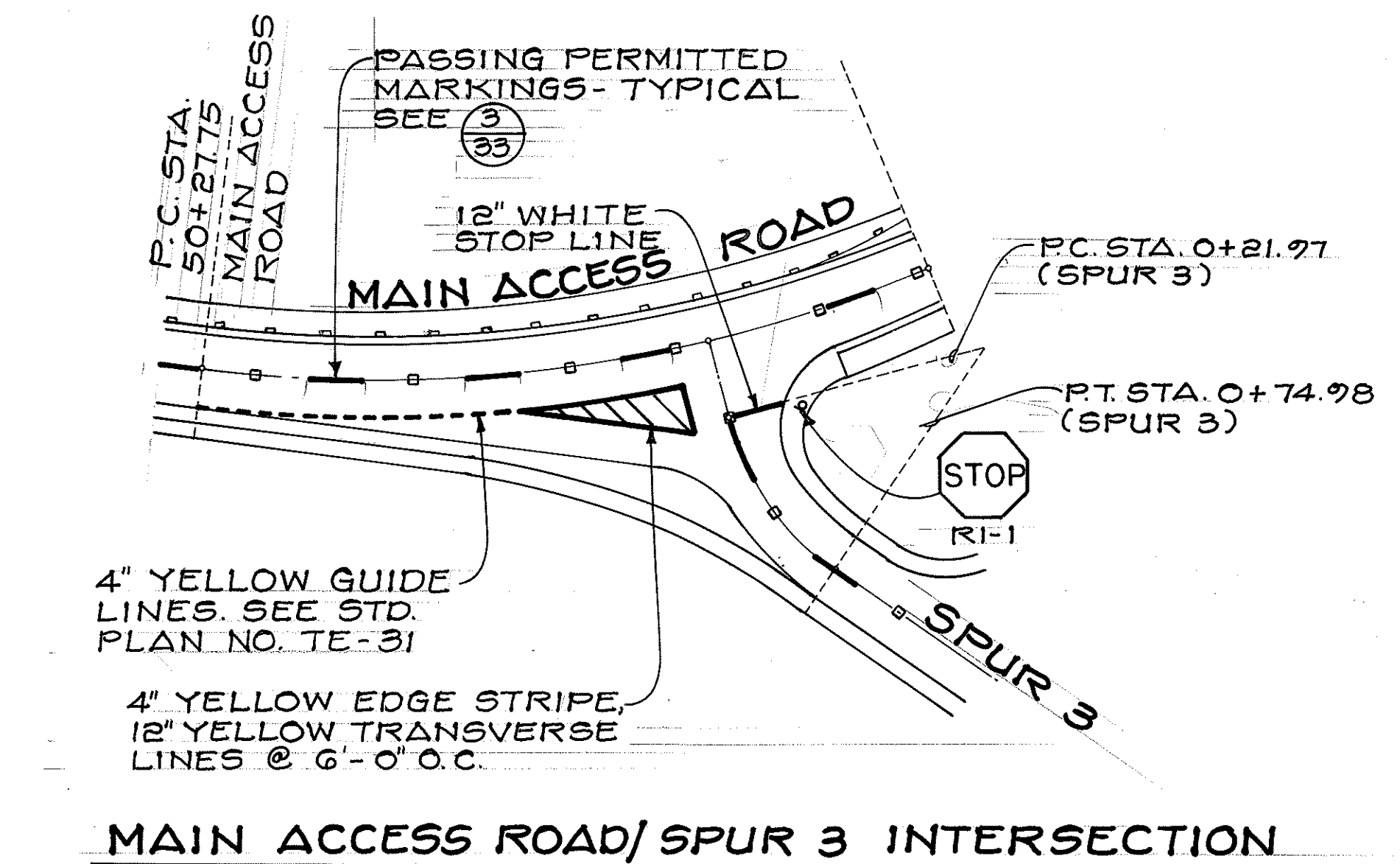
Rodney T. Yamamoto

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

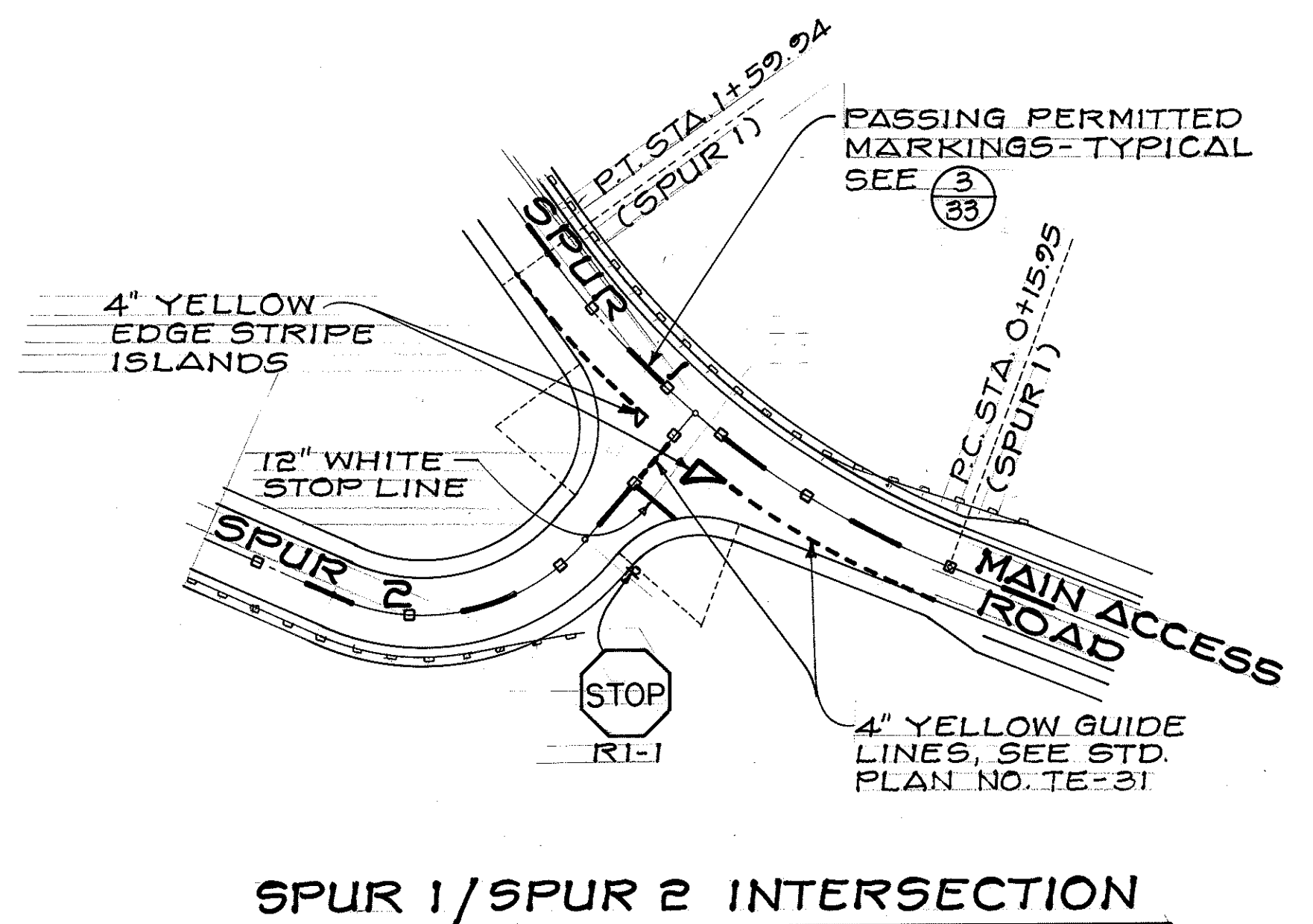
Royce S. Fukunaga



SPUR 2 / SPUR 4 INTERSECTION



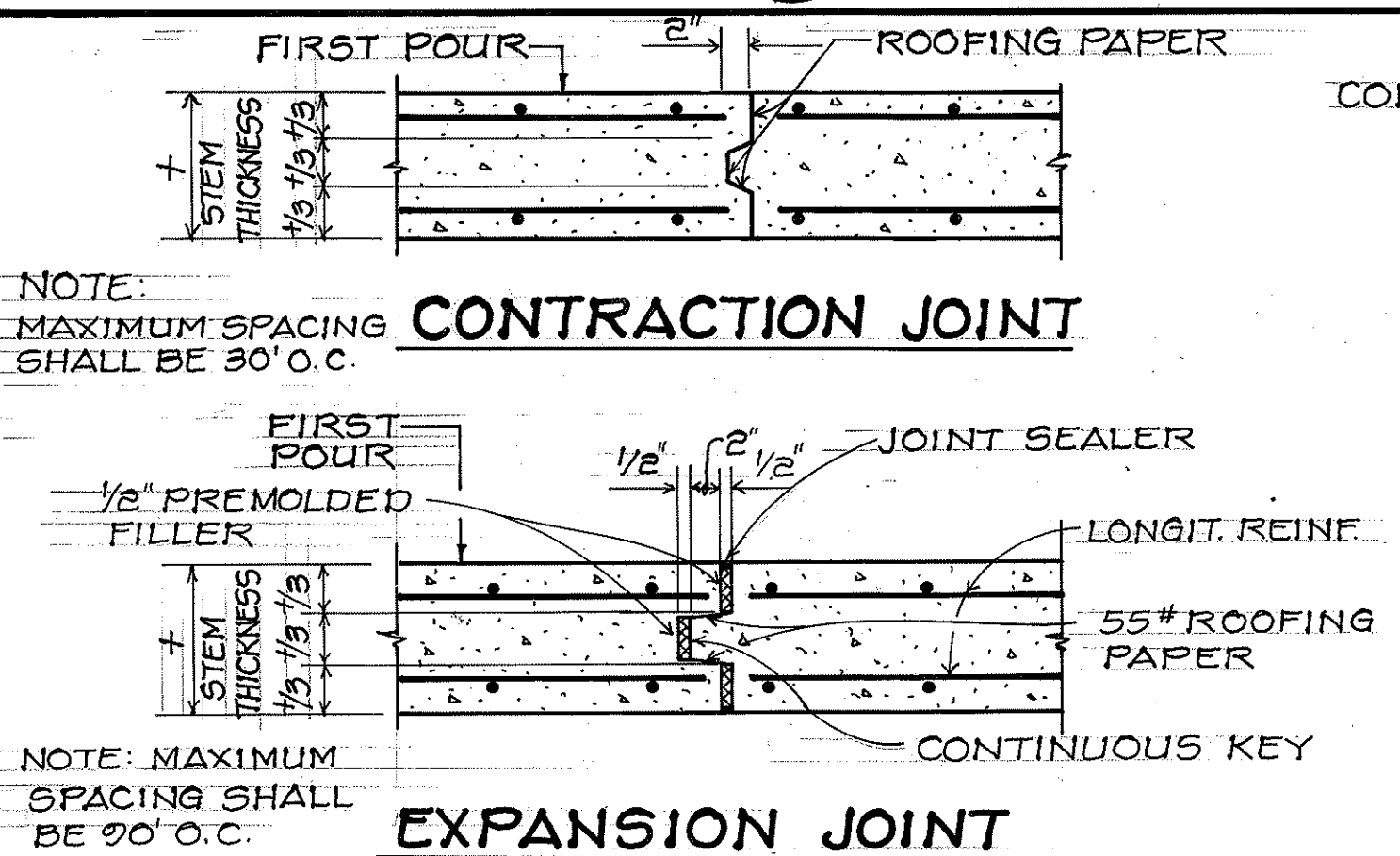
MAIN ACCESS ROAD / SPUR 3 INTERSECTION



SPUR 1 / SPUR 2 INTERSECTION

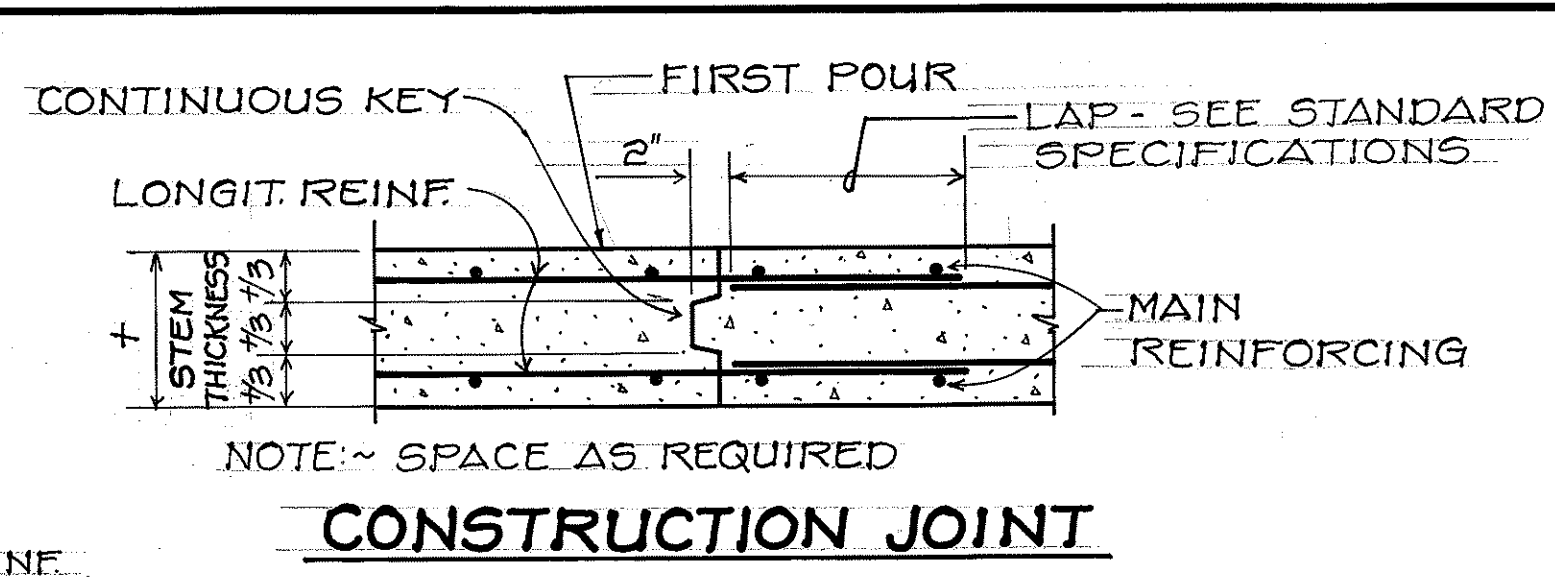
1 **INTERSECTION PAVEMENT MARKING PLANS**

39 SCALE: 1" = 40'

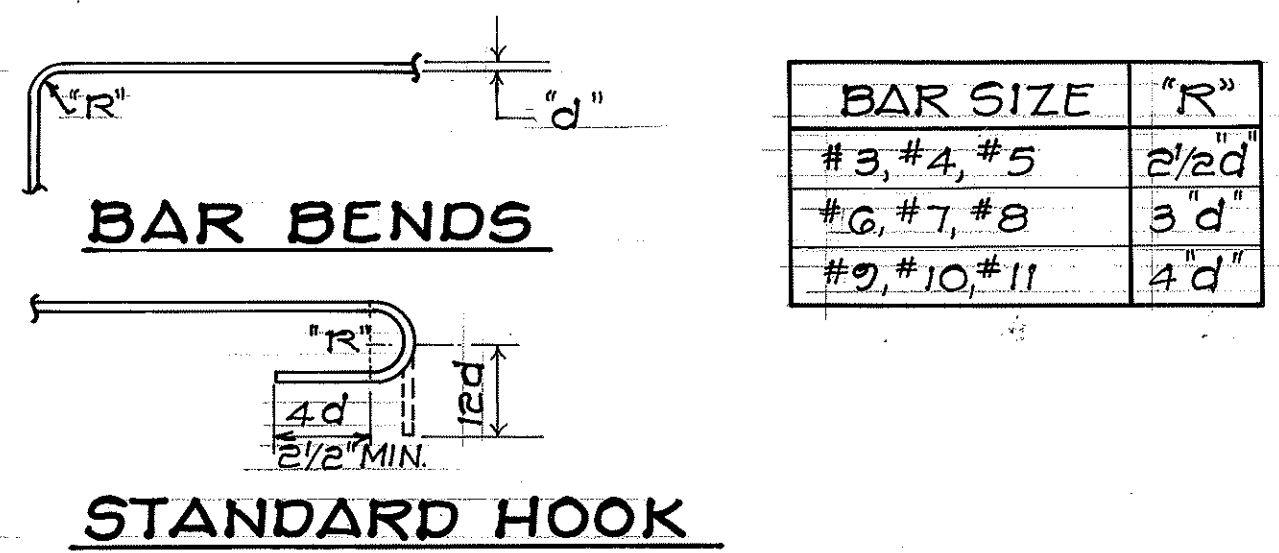


CONTRACTION JOINT

EXPANSION JOINT

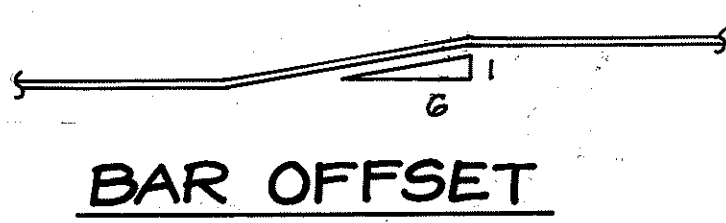


CONSTRUCTION JOINT



BAR BENDS

STANDARD HOOK



BAR OFFSET

5 **TYPICAL REBAR BENDING DETAIL**

39 NO SCALE

2 **REINFORCED CONC. WALL JOINT DETAILS**

39 NO SCALE

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