

# MAKALAPA ACCESS ROAD CURVE DATA

| ①               | ②           | ③           |
|-----------------|-------------|-------------|
| Δ = 28° 14' 30" | Δ = 93° 29' | Δ = 37° 02' |
| R = 200.00'     | R = 250.00' | R = 250.00' |
| T = 50.31'      | T = 265.68' | T = 83.77'  |
| C = 97.59'      | C = 364.14' | C = 158.86' |
| L = 28.58'      | L = 407.90' | L = 161.59' |

# REALIGNED SALT LAKE BLVD CURVE DATA

|                |
|----------------|
| Δ = 8° 59' 25" |
| R = 1900.00'   |
| T = 149.36'    |
| C = 297.80'    |
| L = 298.11'    |

# GUARD RAILS - MAKALAPA ACCESS ROAD

|       | BEGIN     | END        | LENGTH     | TYPE          |
|-------|-----------|------------|------------|---------------|
| LEFT  | STA. 1+80 | STA. 6+25  | 420 ± L.F. | TYPE 3-SINGLE |
| RIGHT | STA. 1+50 | STA. 6+25  | 495 ± L.F. | " " "         |
| LEFT  | STA. 8+25 | STA. 10+00 | 195 ± L.F. | " " "         |

GUARD RAIL - SALT LAKE BLVD. 85 L.F., TYPE 3-SINGLE (SEE PLAN)

# LEGEND

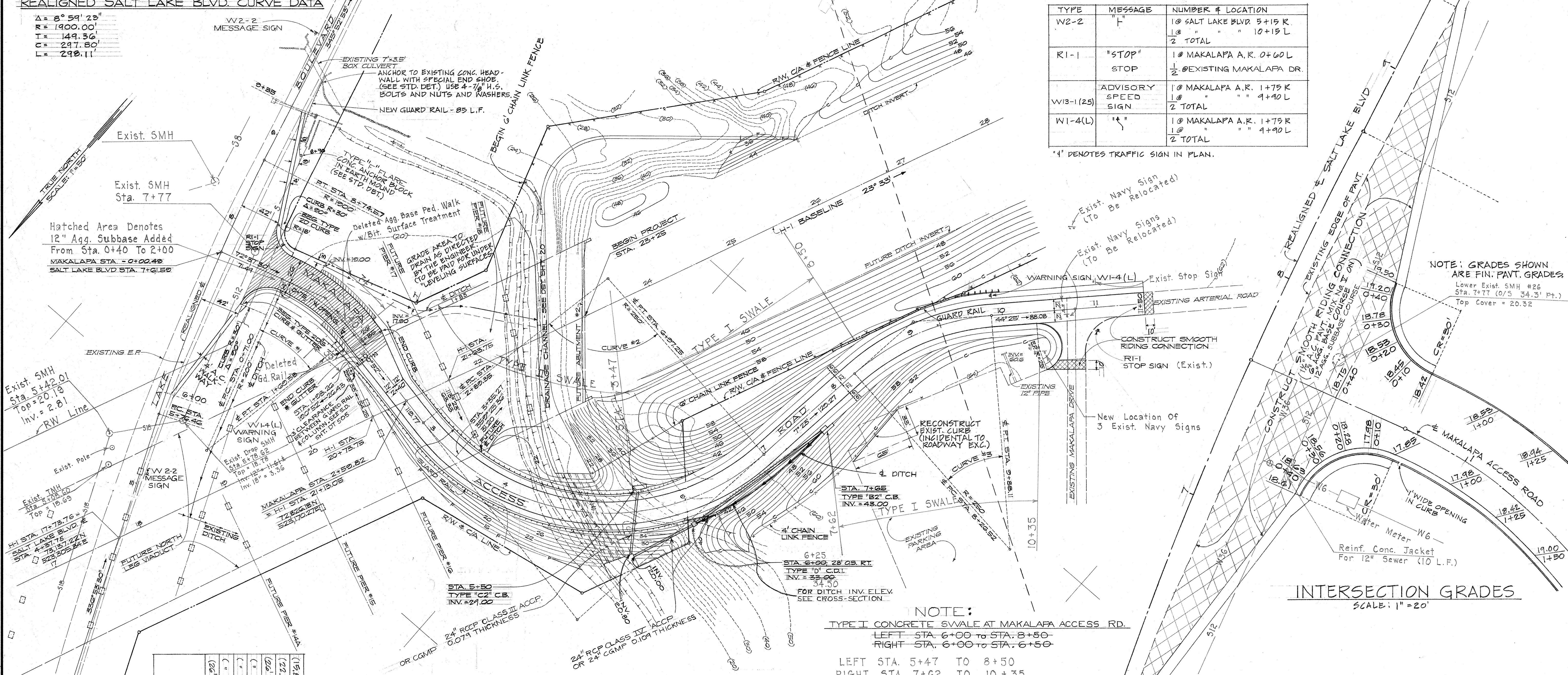
---(40)--- EXISTING CONTOUR LINE  
 ---40--- NEW CONTOUR LINE

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 1-HI-1 (103)-14    | 1972        | 5         | 46           |

# TRAFFIC SIGNS

| TYPE       | MESSAGE             | NUMBER & LOCATION                                            |
|------------|---------------------|--------------------------------------------------------------|
| W2-2       | "T"                 | 1 @ SALT LAKE BLVD. 5+15 R.<br>1 @ " " " 10+15 L.<br>2 TOTAL |
| R1-1       | "STOP"              | 1 @ MAKALAPA A.R. 0+60 L.<br>1 @ EXISTING MAKALAPA DR.       |
| W13-1 (25) | ADVISORY SPEED SIGN | 1 @ MAKALAPA A.R. 1+75 K.<br>1 @ " " " 1+90 L.<br>2 TOTAL    |
| W1-4 (L)   | "T"                 | 1 @ MAKALAPA A.R. 1+75 R.<br>1 @ " " " 1+90 L.<br>2 TOTAL    |

\*1\* DENOTES TRAFFIC SIGN IN PLAN.



NOTE: GRADES SHOWN ARE FIN. PAVT. GRADES  
 Lower Exist. SMH #26 Sta. 7+77 (0/5 34.3' Pt.)  
 Top Cover = 20.32

# INTERSECTION GRADES

SCALE: 1" = 20'

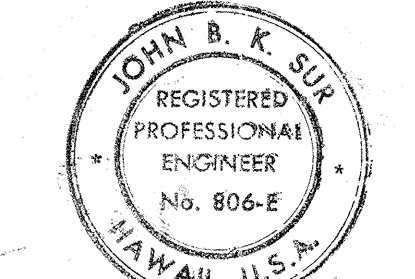
NOTE:  
 TYPE I CONCRETE SWALE AT MAKALAPA ACCESS RD.  
 LEFT STA. 6+00 TO STA. 8+50  
 RIGHT STA. 6+00 TO STA. 6+50  
 LEFT STA. 5+47 TO 8+50  
 RIGHT STA. 7+62 TO 10+35

# MAKALAPA ACCESS ROAD FINISH PAVEMENT GRADES

(SEE PLAN FOR INTERSECTION GRADES)

| STATION | LEFT E.P. 0.5 AS INDICATED | LEFT E.P. 12' O.S. | RIGHT E.P. 12' O.S. |
|---------|----------------------------|--------------------|---------------------|
| 0+00    | 18.33                      | 18.33              | 18.33               |
| 0+25    | 18.33                      | 18.33              | 18.33               |
| 0+50    | 18.33                      | 18.33              | 18.33               |
| 0+75    | 18.33                      | 18.33              | 18.33               |
| 1+00    | 18.33                      | 18.33              | 18.33               |
| 1+25    | 18.33                      | 18.33              | 18.33               |
| 1+50    | 18.33                      | 18.33              | 18.33               |
| 1+75    | 18.33                      | 18.33              | 18.33               |
| 2+00    | 18.33                      | 18.33              | 18.33               |
| 2+25    | 18.33                      | 18.33              | 18.33               |
| 2+50    | 18.33                      | 18.33              | 18.33               |
| 2+75    | 18.33                      | 18.33              | 18.33               |
| 3+00    | 18.33                      | 18.33              | 18.33               |
| 3+25    | 18.33                      | 18.33              | 18.33               |
| 3+50    | 18.33                      | 18.33              | 18.33               |
| 3+75    | 18.33                      | 18.33              | 18.33               |
| 4+00    | 18.33                      | 18.33              | 18.33               |
| 4+25    | 18.33                      | 18.33              | 18.33               |
| 4+50    | 18.33                      | 18.33              | 18.33               |
| 4+75    | 18.33                      | 18.33              | 18.33               |
| 5+00    | 18.33                      | 18.33              | 18.33               |
| 5+25    | 18.33                      | 18.33              | 18.33               |
| 5+50    | 18.33                      | 18.33              | 18.33               |
| 5+75    | 18.33                      | 18.33              | 18.33               |
| 6+00    | 18.33                      | 18.33              | 18.33               |
| 6+25    | 18.33                      | 18.33              | 18.33               |
| 6+50    | 18.33                      | 18.33              | 18.33               |
| 6+75    | 18.33                      | 18.33              | 18.33               |
| 7+00    | 18.33                      | 18.33              | 18.33               |
| 7+25    | 18.33                      | 18.33              | 18.33               |
| 7+50    | 18.33                      | 18.33              | 18.33               |
| 7+75    | 18.33                      | 18.33              | 18.33               |
| 8+00    | 18.33                      | 18.33              | 18.33               |
| 8+25    | 18.33                      | 18.33              | 18.33               |
| 8+50    | 18.33                      | 18.33              | 18.33               |
| 8+75    | 18.33                      | 18.33              | 18.33               |
| 9+00    | 18.33                      | 18.33              | 18.33               |
| 9+25    | 18.33                      | 18.33              | 18.33               |
| 9+50    | 18.33                      | 18.33              | 18.33               |
| 9+75    | 18.33                      | 18.33              | 18.33               |
| 10+00   | 18.33                      | 18.33              | 18.33               |

JOHN B. K. SUR & ASSOCIATES, INC.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

John B. K. Sur

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

MAKALAPA ACCESS ROAD

SCALE AS SHOWN

SHEET No. OF SHEETS

|               |       |
|---------------|-------|
| DATE          | ***** |
| DESIGNED BY   |       |
| DRAWN BY      |       |
| CHECKED BY    |       |
| NOTED BY      |       |
| ORIGINAL PLAN |       |