FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1 (103):14	1972	3	46

GENERAL NOTES

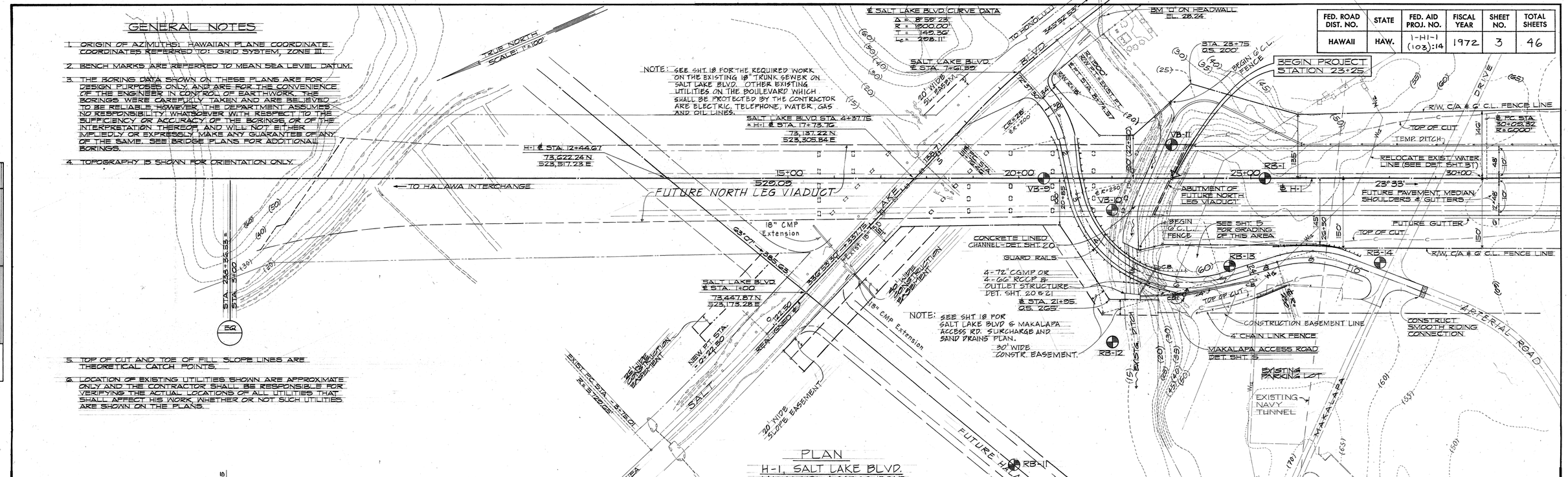
1. ORIGIN OF AZIMUTHS: HAWAIIAN PLANE COORDINATE, COORDINATES REFERRED TO: GRID SYSTEM, ZONE III.
2. BENCH MARKS ARE REFERRED TO MEAN SEA LEVEL DATUM.
3. THE BORING DATA SHOWN ON THESE PLANS ARE FOR DESIGN PURPOSES ONLY AND ARE FOR THE CONVENIENCE OF THE ENGINEER IN CONTROL OF EARTHWORK. THE BORINGS WERE CAREFULLY TAKEN AND ARE BELIEVED TO BE RELIABLE, HOWEVER, THE DEPARTMENT ASSUMES NO RESPONSIBILITY WHATSOEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE BORINGS, OR OF THE INTERPRETATION THEREOF, AND WILL NOT, EITHER IMPLIEDLY OR EXPRESSLY, MAKE ANY GUARANTEE OF ANY OF THE SAME. SEE BRIDGE PLANS FOR ADDITIONAL BORINGS.
4. TOPOGRAPHY IS SHOWN FOR ORIENTATION ONLY.
5. TOP OF CUT AND TOE OF FILL SLOPE LINES ARE THEORETICAL CATCH POINTS.
6. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATIONS OF ALL UTILITIES THAT SHALL AFFECT HIS WORK, WHETHER OR NOT SUCH UTILITIES ARE SHOWN ON THE PLANS.

PLAN

SURVEYED
PLOTTED
NOTE BOOK
NO.

BY	DATE

PLAN
H-1, SALT LAKE BLVD. MAKALAPA ACCESS ROAD.
SCALE: 1"=100'-0"

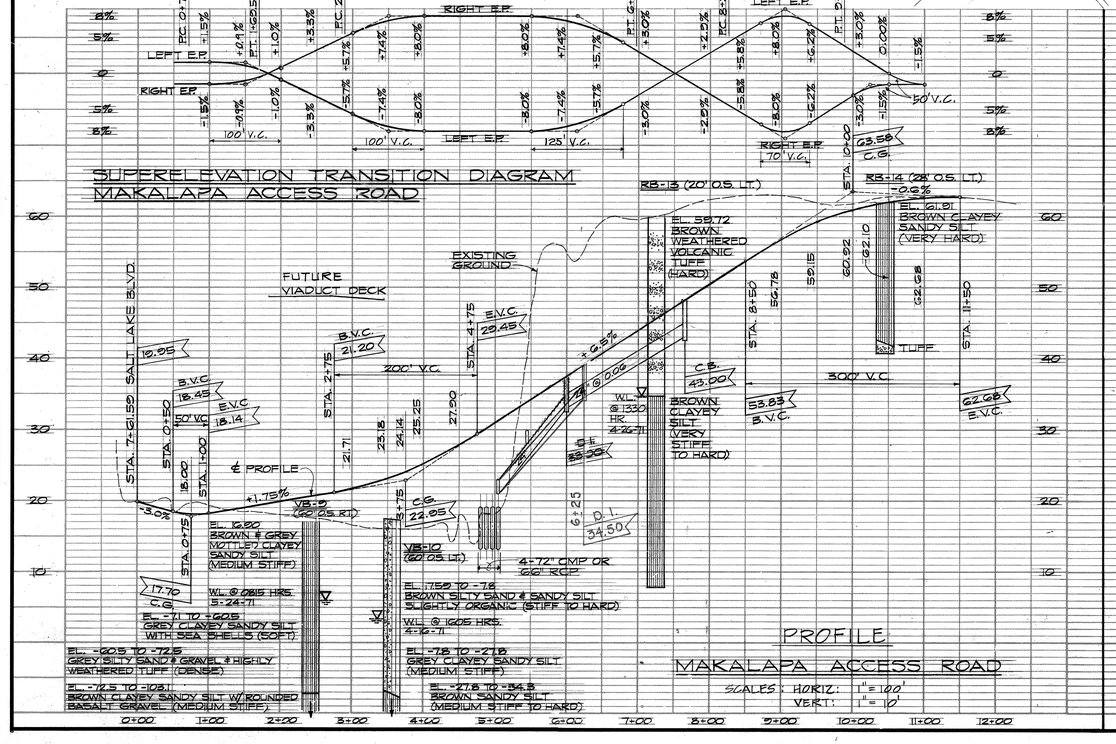


PROFILE

SURVEYED
PLOTTED
NOTE BOOK
NO.

BY	DATE

SUPERELEVATION TRANSITION DIAGRAM
MAKALAPA ACCESS ROAD



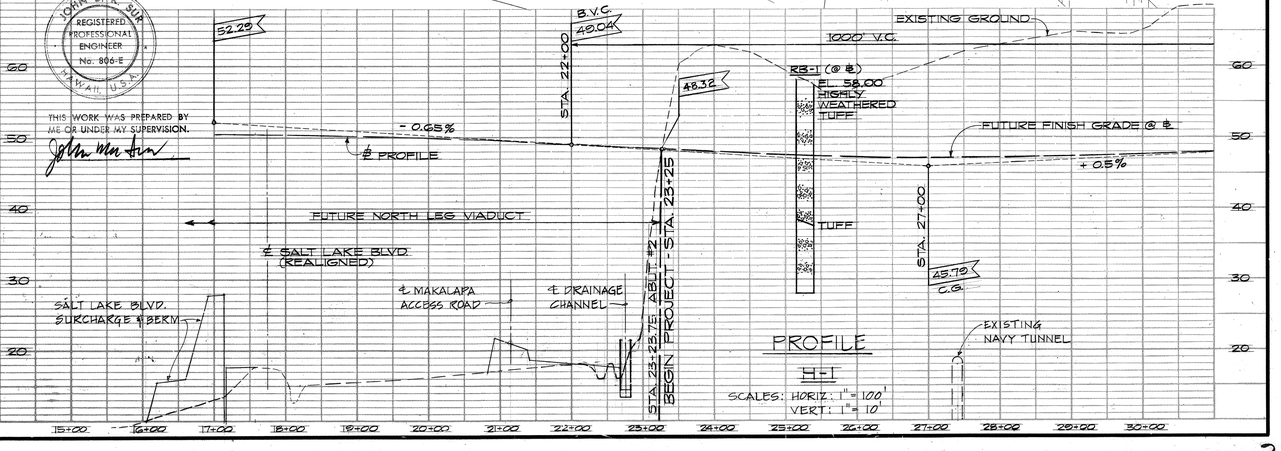
PROFILE
MAKALAPA ACCESS ROAD
SCALES: HORIZ.: 1"=100'
VERT.: 1"=10'

JOHN B. K. SUR & ASSOCIATES, INC.

JOHN B. K. SUR
REGISTERED PROFESSIONAL ENGINEER
No. 806-E
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

PROFILE
H-1
SCALES: HORIZ.: 1"=100'
VERT.: 1"=10'



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1 (103):14	1972	4	46

PLAN
SURVEYED
DESIGNED
GRADES CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.

BY	DATE

MAKALAPA ELEMENTARY SCHOOL

RADFORD HIGH SCHOOL

2M - C & C MON. AT INTERSECTION OF SALT LAKE BLVD. & ALA OLI ST. EL. 71.22

GYM

EXTEND TRACK & RELOCATE BASEBALL BACKSTOP & FOOTBALL GOAL POSTS SEE DET. SHT. 32. (SEE CONSTRUCTION EASEMENT)

TRUE NORTH
SCALE: 1"=100'

P.C. STA. 30+05.32
R=6000.00'
I=1°39'00"

CONSTRUCTION EASEMENT

SEE SHT. 32 FOR DETAILED PLAN OF FENCING AND GATE

CUT DRAINAGE DITCH

END @ C.L. FENCE

20' CONSTRUCTION EASEMENT

P.T. STA. 43+35.77
R=6000.00'
I=1°00'53"

CUT INTERIM DRAINAGE DITCH

R/W & C/A LINE

TOE OF SURCHARGE

DITCH ON TOP OF SURCHARGE

GRADE EXISTING DITCH FROM EL. 27.85 TO INVERT OF EXISTING 48" CULVERT

300'

Inv. = 28.0

EXIST. 48" CULVERT

CONSTRUCTION EASEMENT

Inv. = 30.20

EXISTING TWIN 4.5' x 7.5' BOX CULVERT

INV. = 27.85

TOP OF CUT

FUTURE GRADING

DIVERT DITCH

TOE OF SURCHARGE

SUBGRADE DAYLIGHT LINE

Sta. 51+50

H-1 BASELINE

10°53'00" → 3524.19 (P.I. TO P.I. PLANTATION DR.)

INSTALL 24" CMP, 24" RCP, CL IV OR 24" ACP, CL IV FOR INTERIM DRAINAGE

END OF PROJECT STATION 55+00

HALE KEIKI SCHOOL

Move

END OF SUBGRADE EMBANKMENT

FUTURE GRADING

DITCH ON TOP OF SURCHARGE

DIVERT DITCH

INV. = 28.10

TOP OF CUT

CUT DRAINAGE DITCH

CUT INTERIM DRAINAGE DITCH

Inv. = 31.90

EXISTING NAVY ELEC. LINE TO BE RELOCATED IN FUTURE PROJECT.

EXISTING DITCH

RADIO TOWER

RB-1 RB-2 RB-3 RB-4 RB-5 RB-6 RB-7 RB-8 RB-9 RB-10 RB-15

FUTURE PEDESTRIAN OVERPASS

5,444.90 (P.I. TO P.I.)

23°33'

30°00

35+00

40+00

45+00

50+00

55+00

60+00

8' CLEAR

FUTURE GUTTER

R/W C/A & FENCE LINE

END @ C.L. FENCE, STA. 36+00

CONSTRUCTION EASEMENT

20' CONSTRUCTION EASEMENT

TOE OF TEMP. BERM

300'

ARTERIAL ROAD

MAKALAPA CRATER

ROAD

DRIVE

MAKALAPA

H-1 BASELINE CURVE DATA

Δ = 12°40'
R = 6000.00'
T = 665.24'
C = 1,323.75'
L = 1,326.45'

PLAN
SCALE: 1"=100'

PROFILE
SURVEYED
DESIGNED
GRADES CHECKED
S. & I. NOTED
STRUCTURE NO. & TYP. CH'KD.
NOTE BOOK
NO.

CONSTRUCT SURCHARGE FILL (5 FT. HIGH) & TEMPORARY BERM SEE SHT 18

FUTURE ℄ PEDESTRIAN OVERPASS

RB-15 (42' O.S. RT.)
EL. 60.14
GREY VOLCANIC TUFF FRACTURED, SLIGHTLY WEATHERED (HARD)

RB-3 (@ ℄)
EL. 54.3
BROWN SANDY SILT & MISC. FILL (LOOSE)

GREY CLAYEY SANDY SILT (SOFT TO MEDIUM STIFF)

W.L. @ 1510 HR 5-14-71

GREY WEATHERED TUFF (HARD)

RB-5 (@ ℄)
EL. 51.26
BROWN SILTY SAND WITH MISCELLANEOUS FILL (LOOSE)

W.L. @ 0900 HR. 4-27-71

GREY CLAYEY SANDY SILT SOME SHELL FRAGMENT (MEDIUM STIFF)

LIGHT TAN & GREY MOTTLED CORAL (HARD)

RB-6 (50' O.S. RT.)
EL. 37.42
MISCELLANEOUS FILL (LOOSE)

W.L. @ 1600 HR 5-4-71

GREY TO DARK BROWN CLAYEY SANDY SILT (MEDIUM STIFF) TO EL. -15.1

EL. -15.1 TO -17.6
LIGHT TAN CEMENTED CORAL & SAND

EL. -17.6 TO -18.6
LIGHT TAN & GREY MOTTLED CLAYEY SANDY SILT (VERY STIFF TO HARD)

RB-7 (10' O.S. RT.)
EL. 32.00
BROWN ORGANIC SANDY SILT (SOFT)
W.L. @ 1310 HR. ON 5-5-71
GREY TO DARK BROWN CLAYEY SANDY SILT (MEDIUM) TO EL. -4.0

EL. -4.0 TO -18.0
LIGHT BROWN CLAYEY SANDY SILT WITH SOME CORAL FRAGMENTS (VERY STIFF TO HARD)

EL. -18.0 TO -19.0
BROWN & GREY MOTTLED CLAYEY SANDY SILT (DECOMPOSED BASALT) (VERY STIFF TO HARD)

RB-8 (70' O.S. RT.)
EL. 31.02
BROWN ORGANIC SANDY SILT (SOFT)

GREY TO DARK BROWN CLAYEY SANDY SILT (MEDIUM STIFF)

W.L. @ 1200 HR 5-5-71

EL. -10 TO -15.0
LIGHT TAN CLAYEY SANDY SILT (STIFF TO VERY STIFF)

RB-9 (80' O.S. LT.)
EL. 36.71
BROWN ORGANIC SANDY SILT (SOFT)

GREY TO DARK BROWN CLAYEY SANDY SILT (MEDIUM STIFF) TO EL. 2.2

W.L. @ 1535 HR 5-6-71

EL. 2.2 TO -1.3
BROWN & GREY MOTTLED SANDY SILT (DECOMPOSED BASALT) (VERY STIFF TO VERY HARD)

EL. -1.3 TO -19.3
BROWN CLAYEY SANDY SILT (VERY STIFF TO VERY HARD)

RB-10 (100' O.S. RT.)
EL. 50.63
TUFF, BASALT & CORAL FRAGMENTS MIXED WITH BROWN SANDY SILT TO SILTY SAND

BROWN CLAYEY SANDY SILT WITH TUFF & BASALT FRAGMENTS (STIFF)

WEATHERED TUFF WITH SEAMS OF BROWN SANDY SILT

EXISTING GROUND

FUTURE FINISH GRADE @ BASELINE

Exist. Ground

+0.50%

-0.50%

-1.25%

5' Depth Of Fill Removed And Back Filled With Tuff Mat

STA. 32+00

STA. 37+00

STA. 42+00

STA. 52+00 End Surcharge

END OF PROJECT STA. 55+00

48.20 E.V.C.

43.20 E.V.C.

24" CULVERT

1,000' V.C.

C.G. 50.70

C.G. 40.70

JOHN B. K. SUR & ASSOCIATES, INC.

JOHN B. K. SUR
REGISTERED PROFESSIONAL ENGINEER
No. 806-E
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

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