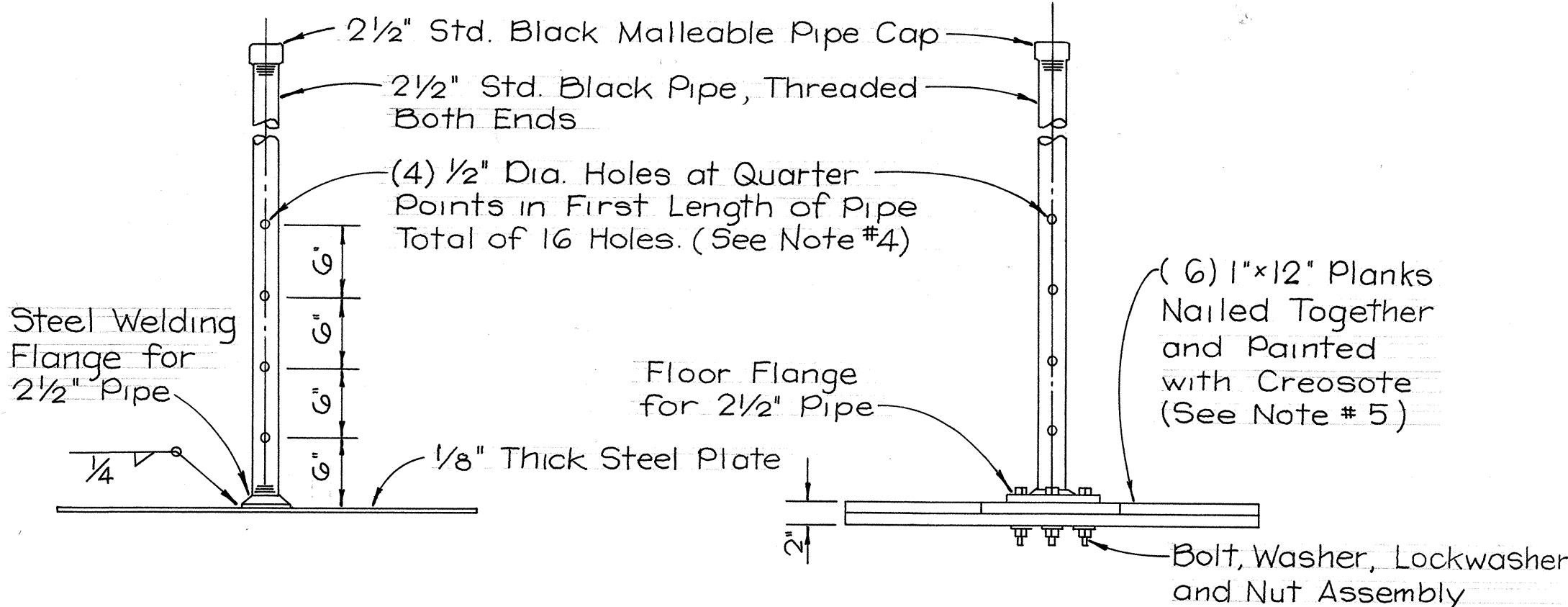
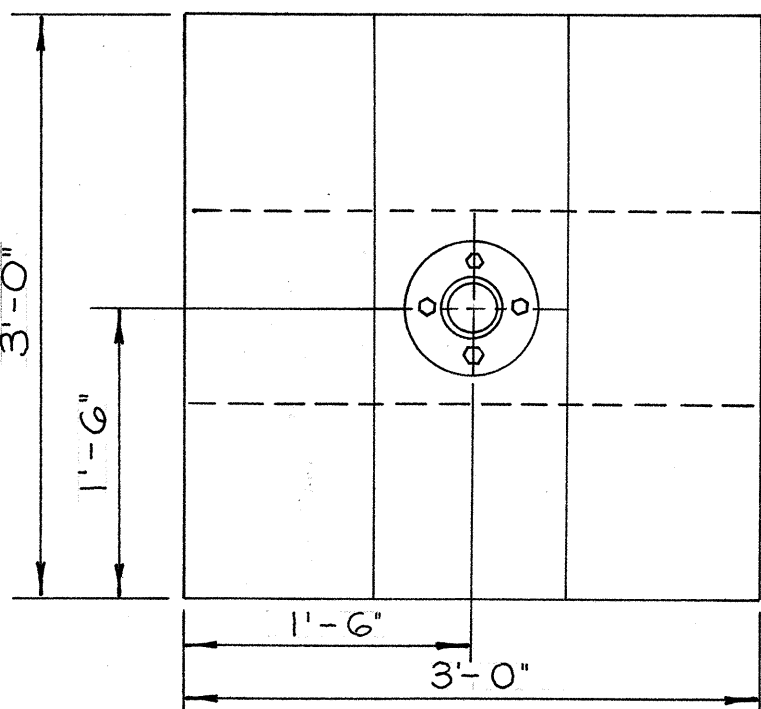
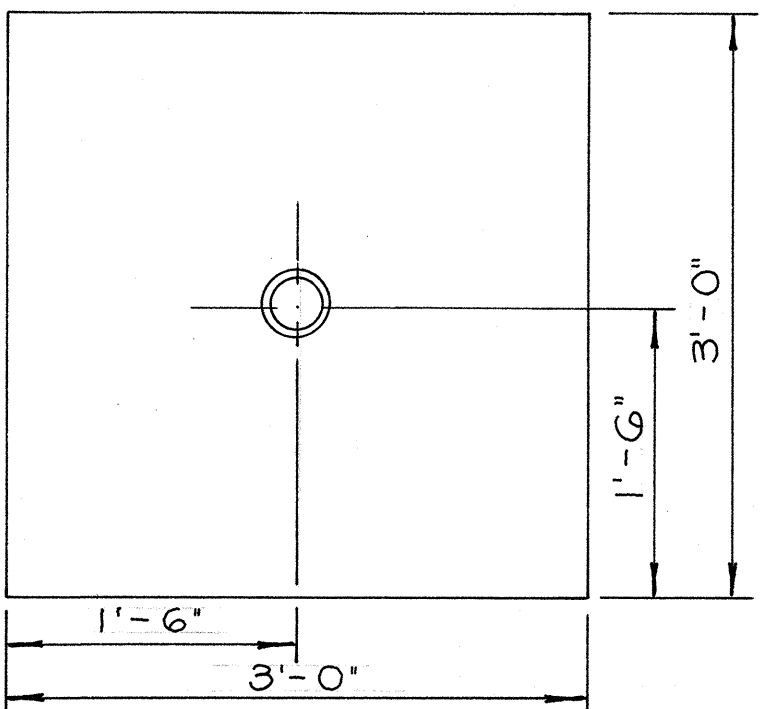


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(10)	1971	64	418

GENERAL NOTES

- The use of either the steel or wood base settlement platforms shall be the Contractor's option.
- Contractor to furnish material and labor to extend pipe up through fill.
- All vertical pipes of settlement platforms shall be accurately and consecutively numbered in one foot intervals measured from the bottom of the settlement platform base. The numbering and graduations shall be marked on the vertical pipe in durable yellow paint by the Contractor immediately after each section of pipe is added.
- Holes to be drilled in first length of pipe as specified.
- Sound lumber must be used for the wood base platform.
- Surcharge and berms to remain in place a minimum of 100 calendar days. The Engineer shall determine the proper time to remove surcharge and berms.

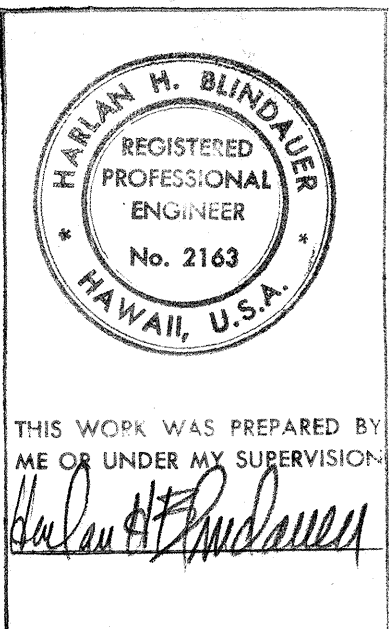


STEEL BASE PLATFORM

WOOD BASE PLATFORM

DETAIL - SETTLEMENT PLATFORM

SAND DRAIN SUMMARY			
Location	Number	Average Depth	Lineal Feet
Puuloa Rd. & Mahiole St.	878	35'	30,730
Ramp "E" & Ramp "A"	444	45'	19,980
Ramp "A" & Ramp "B"	176	40'	7,040
Ramp "C"	150	75'	11,250
Moanalua Road	118	50'	5,900
Total	1,766		74,900



STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

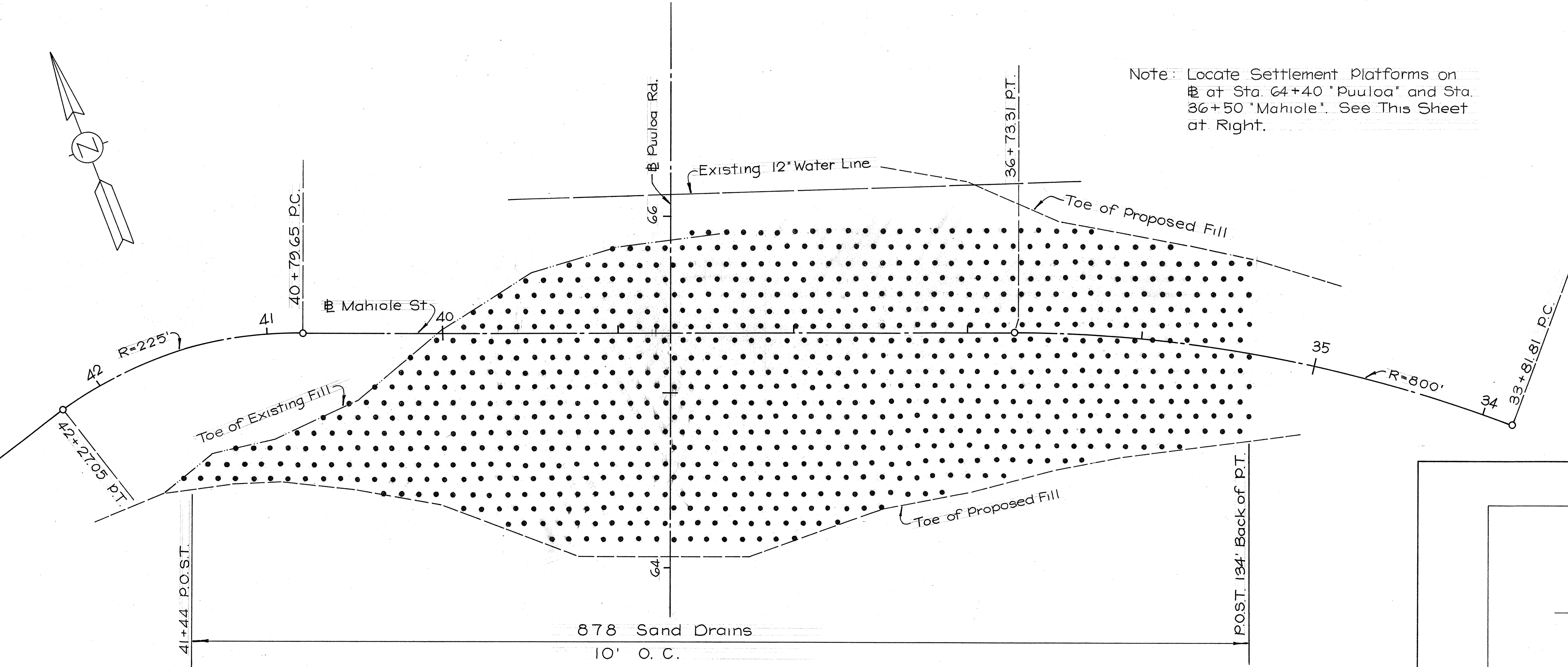
GENERAL PLANS OF SAND DRAINS AND DETAILS

F.A. Proj. No.F-078-1(10)

Scale - as shown Date: JAN 1971

SHEET No. 1 OF 2 SHEETS

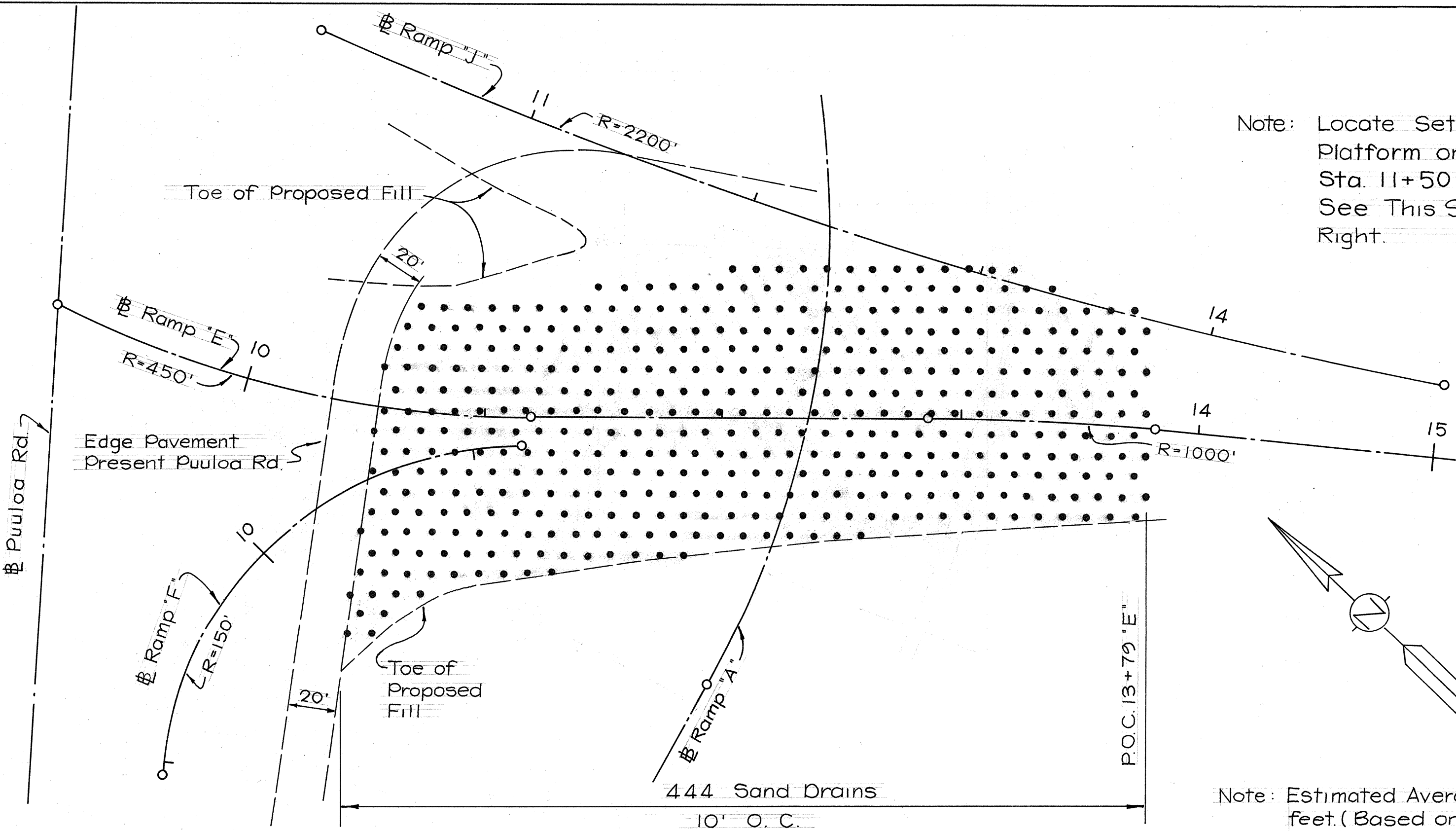
Note: Locate Settlement Platforms on B at Sta. 64+40 "Puuloa" and Sta. 36+50 "Mahiole". See This Sheet at Right.



Note: Estimated Average Depth 35 feet. (Based on Soil Boring B-11 & B-16) Estimated Time to Achieve Maximum Settlement - 94 days. Anticipated Settlement - 2.0 feet.

PUULOA ROAD AND MAHIOLE STREET

Note: Locate Settlement Platform on B at Sta. 11+50 "B". See This Sheet at Right.

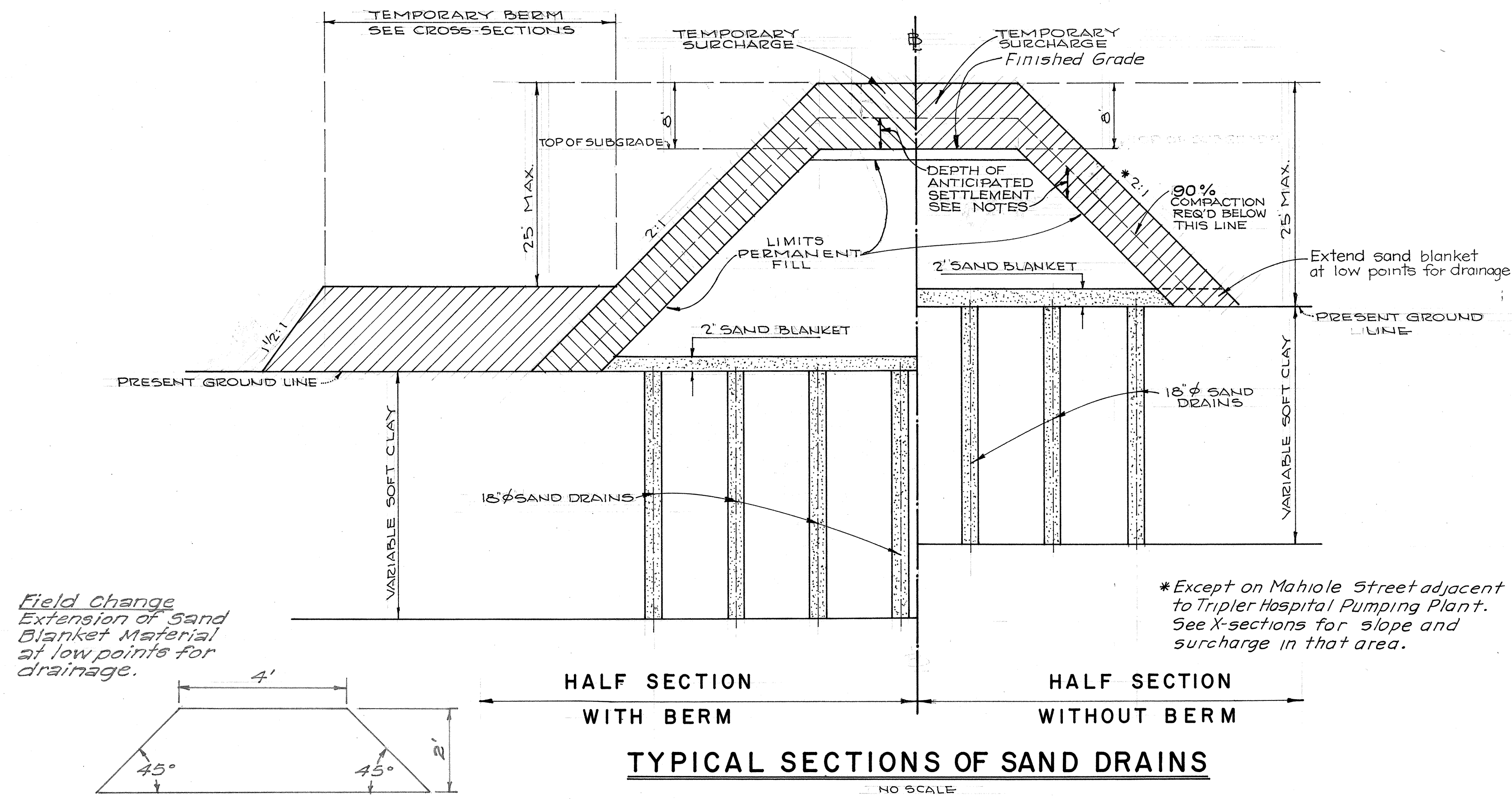


Note: Estimated Average Depth 45 feet. (Based on Soil Boring B-12) Estimated Time to Achieve Maximum Settlement - 57 days. Anticipated Settlement - 3.0 feet.

RAMP "E" AND RAMP "A"

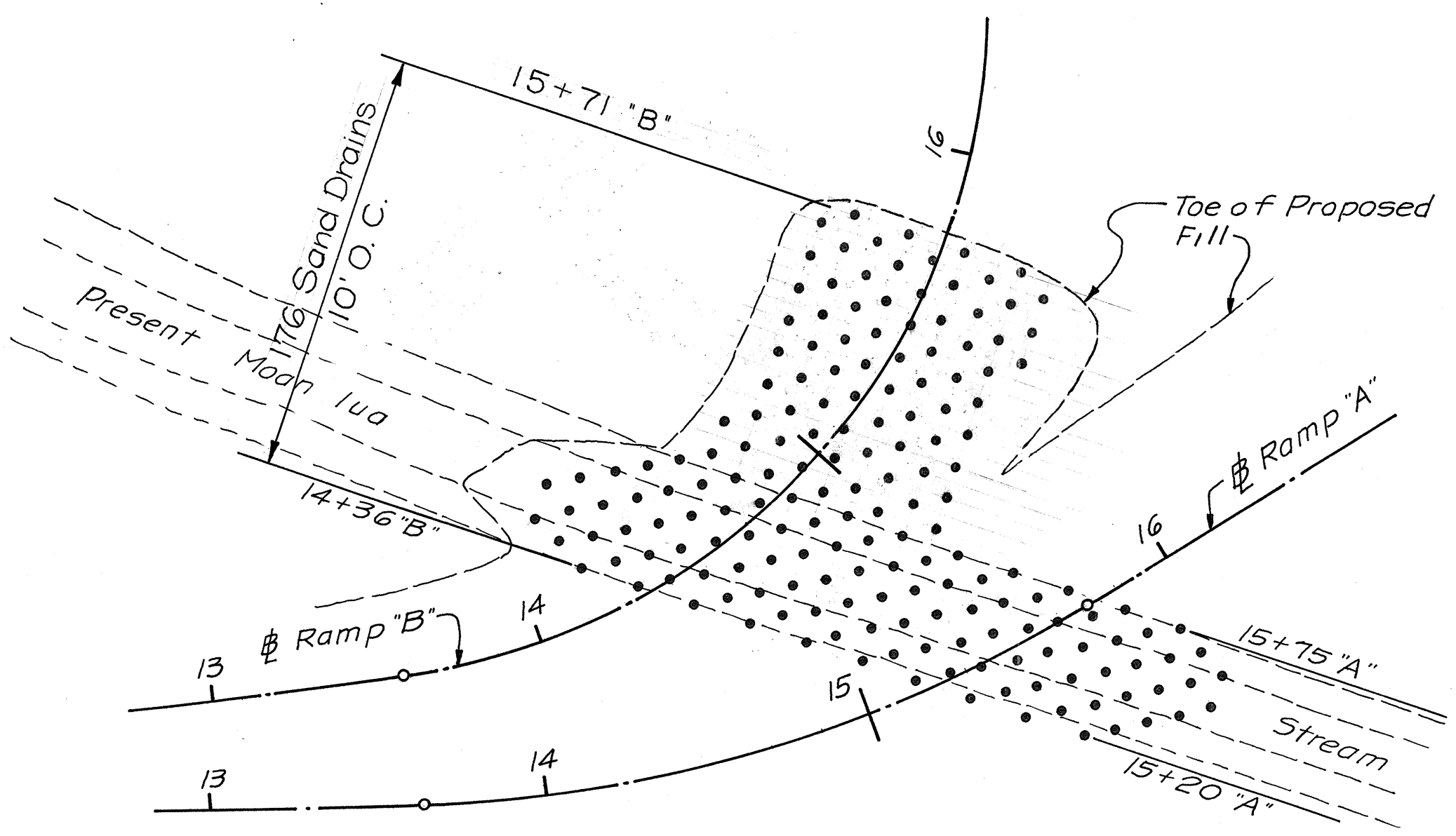
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(10)	1971	65	418



Field Change
Extension of sand
Blanket Material
at low points for
drainage.

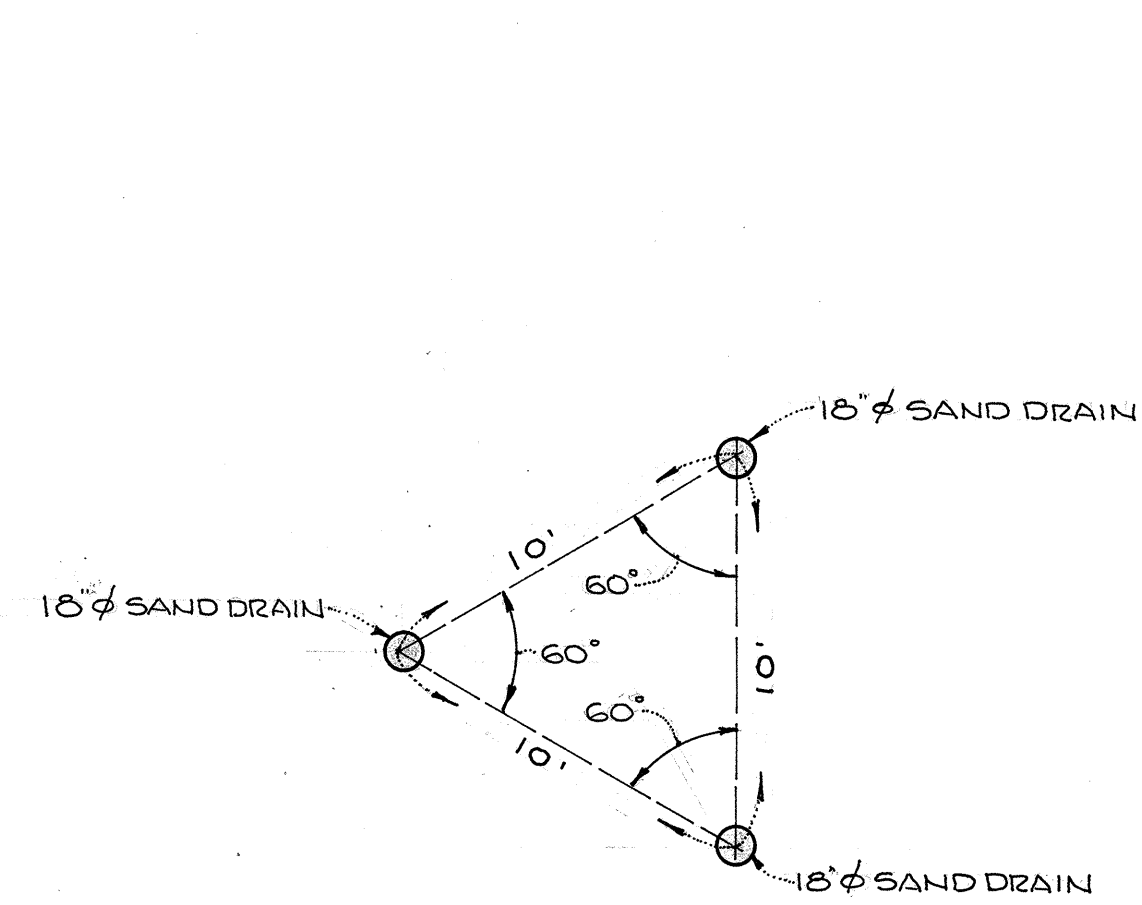
SAND BLANKET EXTENSION THRU TEMPORARY
SURCHARGE (AND TEMP. BERM WHERE APPLICABLE)



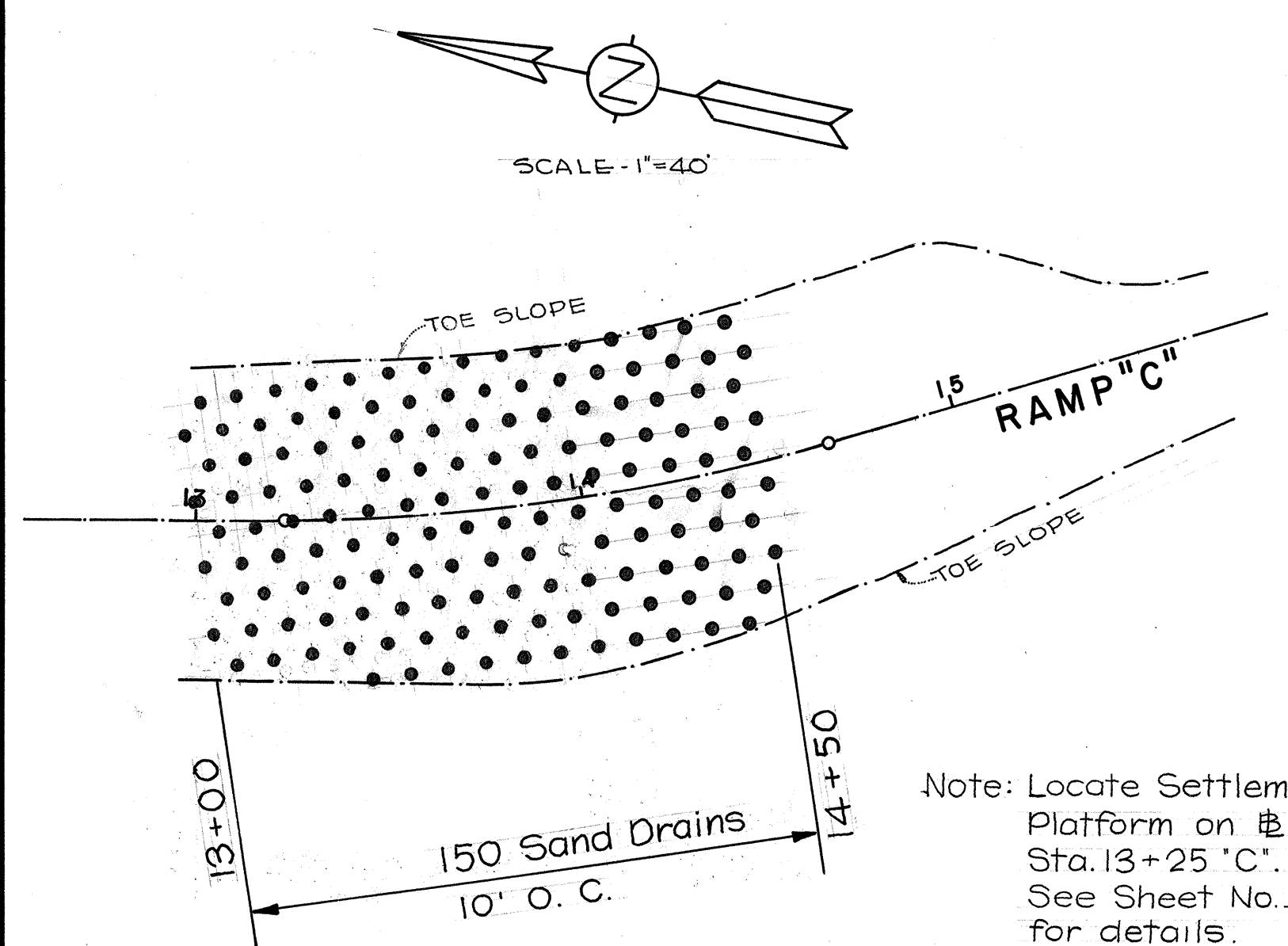
Note: Estimated average depth 40 feet.
(Based on Boring B-18)
Estimated Time to Achieve
Maximum Settlement - 24 days.
Anticipated Settlement - 3.0 feet.

Note: Locate Settlement Platform
on B at Sta. 15+50 "B".
See Sheet No. 1 for details.

RAMP "A" AND RAMP "B"

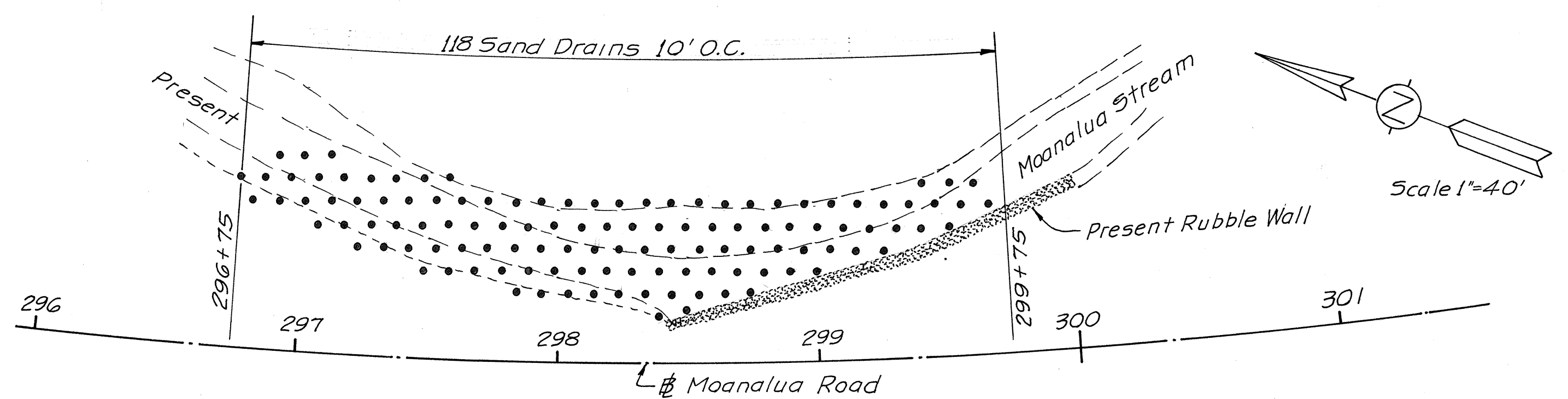


LAYOUT OF SAND DRAINS



Note: Estimated average
depth 75 feet.
(Based on Soil
Boring B-3)
Estimated Time to
Achieve Maximum
Settlement - 19 days.
Anticipated Settlement -
4.5 feet.

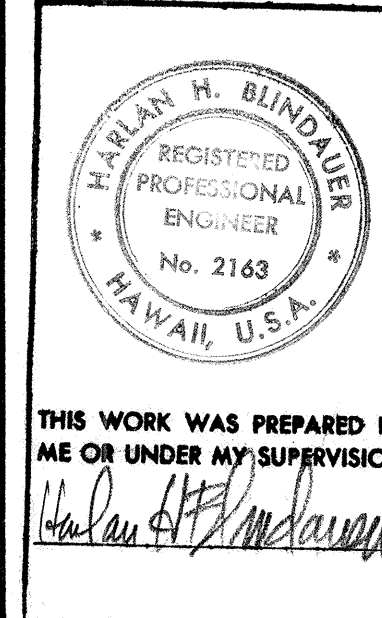
RAMP "C"



Note: Estimated average
depth 50 feet.
(Based on Soil
Boring S-6)
Estimated Time to
Achieve Maximum
Settlement - 28 days.
Anticipated Settlement -
4.3 feet.

MOANALUA ROAD

SURVEY PLOTTED BY	DATE
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL PLANS OF SAND
DRAINS AND DETAILS
F.A. Proj. No.F-078-1(10)
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