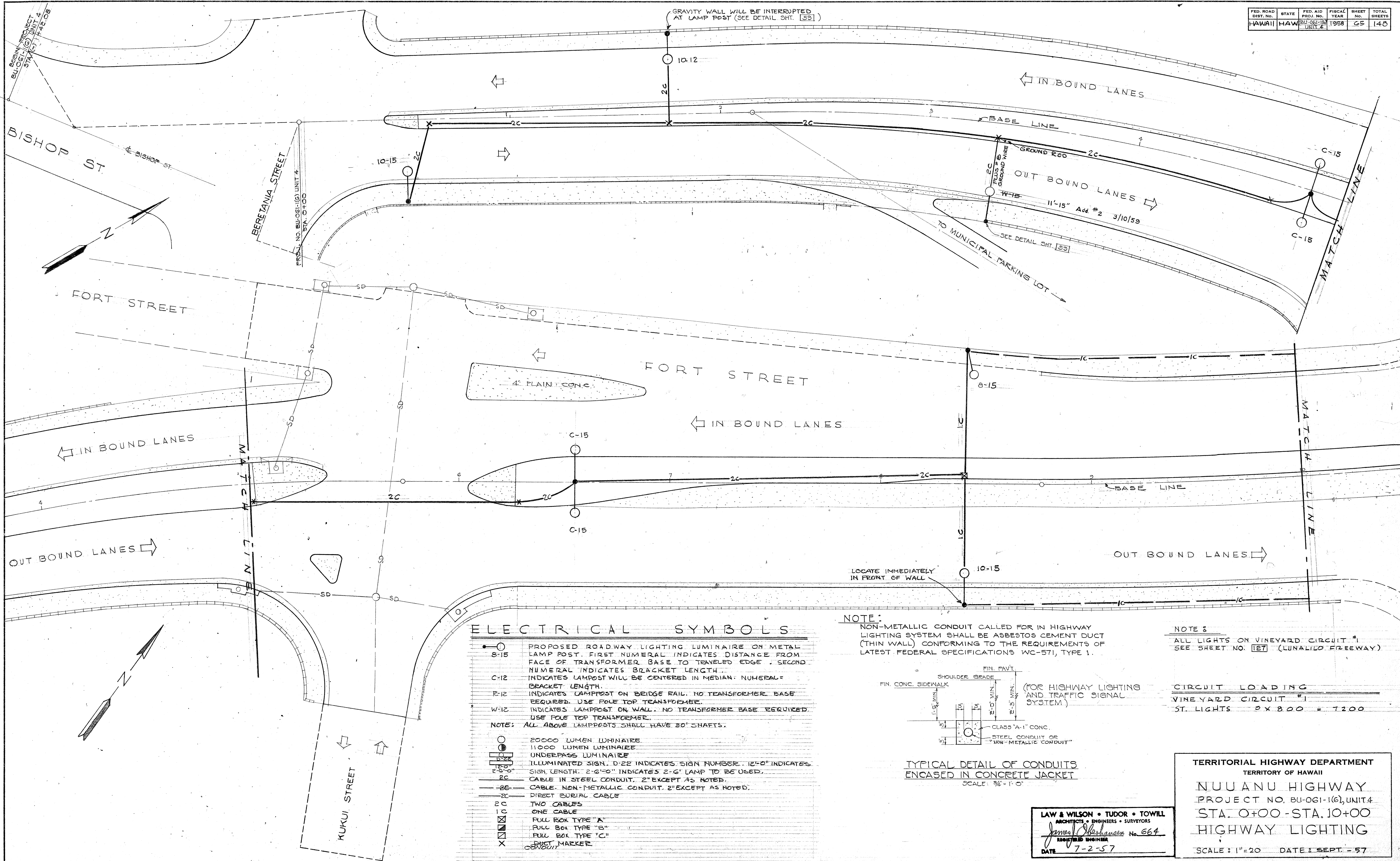


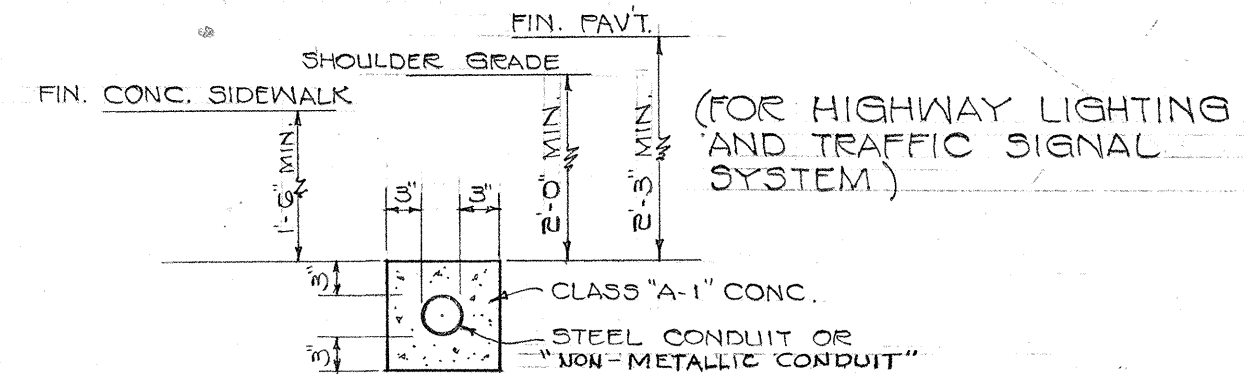


ELECTRICAL SYMBOLS

- 8-15 PROPOSED ROADWAY LIGHTING LUMINAIRE ON METAL LAMP POST. FIRST NUMERAL INDICATES DISTANCE FROM FACE OF TRANSFORMER BASE TO TRAVELED EDGE. SECOND NUMERAL INDICATES BRACKET LENGTH.
- C-12 INDICATES LAMPPOST WILL BE CENTERED IN MEDIAN. NUMERAL INDICATES BRACKET LENGTH.
- R-12 INDICATES LAMPPOST ON BRIDGE RAIL. NO TRANSFORMER BASE REQUIRED. USE POLE TOP TRANSFORMER.
- W-12 INDICATES LAMPPOST ON WALL. NO TRANSFORMER BASE REQUIRED. USE POLE TOP TRANSFORMER.
- NOTE: ALL ABOVE LAMPPOSTS SHALL HAVE 30' SHAFTS.
- 20000 LUMEN LUMINAIRE
- 11000 LUMEN LUMINAIRE
- UNDERPASS LUMINAIRE
- ILLUMINATED SIGN. D-22 INDICATES SIGN NUMBER. 12-0" INDICATES SIGN LENGTH. 2-6-0" INDICATES 2-6' LAMP TO BE USED.
- CABLE IN STEEL CONDUIT. 2" EXCEPT AS NOTED.
- CABLE NON-METALLIC CONDUIT. 2" EXCEPT AS NOTED.
- DIRECT BURIAL CABLE
- TWO CABLES
- ONE CABLE
- FULL BOX TYPE "A"
- FULL BOX TYPE "B"
- FULL BOX TYPE "C"
- POST MARKER

NOTE:

NON-METALLIC CONDUIT CALLED FOR IN HIGHWAY LIGHTING SYSTEM SHALL BE ASBESTOS CEMENT DUCT (THIN WALL) CONFORMING TO THE REQUIREMENTS OF LATEST FEDERAL SPECIFICATIONS WC-571, TYPE 1.



TYPICAL DETAIL OF CONDUITS ENCASED IN CONCRETE JACKET
SCALE: 3/4" = 1'-0"

NOTE:

ALL LIGHTS ON VINEYARD CIRCUIT #1 SEE SHEET NO. 127 (LUNALILO FREEWAY)

CIRCUIT LOADING

VINEYARD CIRCUIT #1
ST. LIGHTS 2 X 800 = 1200

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

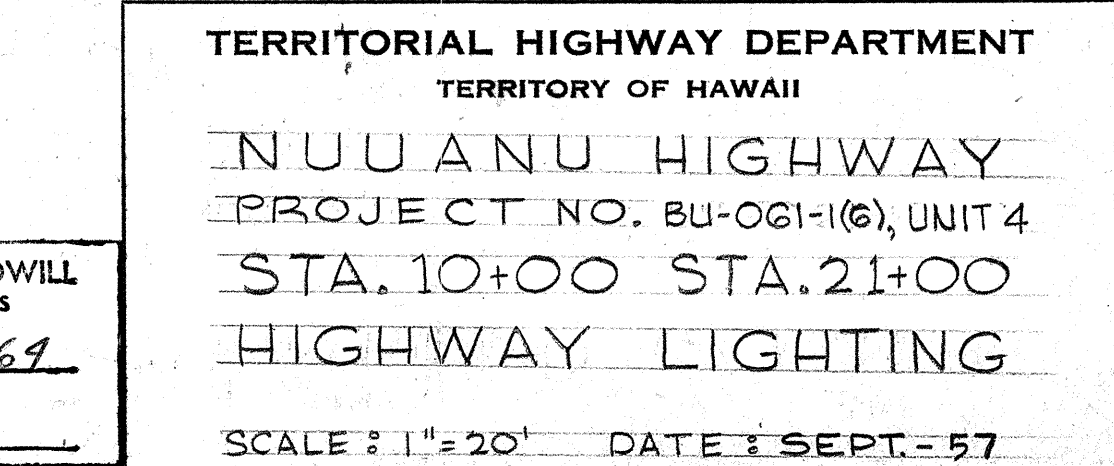
NUUANU HIGHWAY
PROJECT NO. BU-061-1(6), UNIT 4
STA. 0+00 - STA. 10+00
HIGHWAY LIGHTING

SCALE: 1" = 20' DATE: SEPT. - 57

LAW & WILSON • TUDOR • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS
James H. Wilson No. 664
REGISTERED ENGINEER
DATE 7-2-57

SHEET NO. 1 OF 5 SHEETS

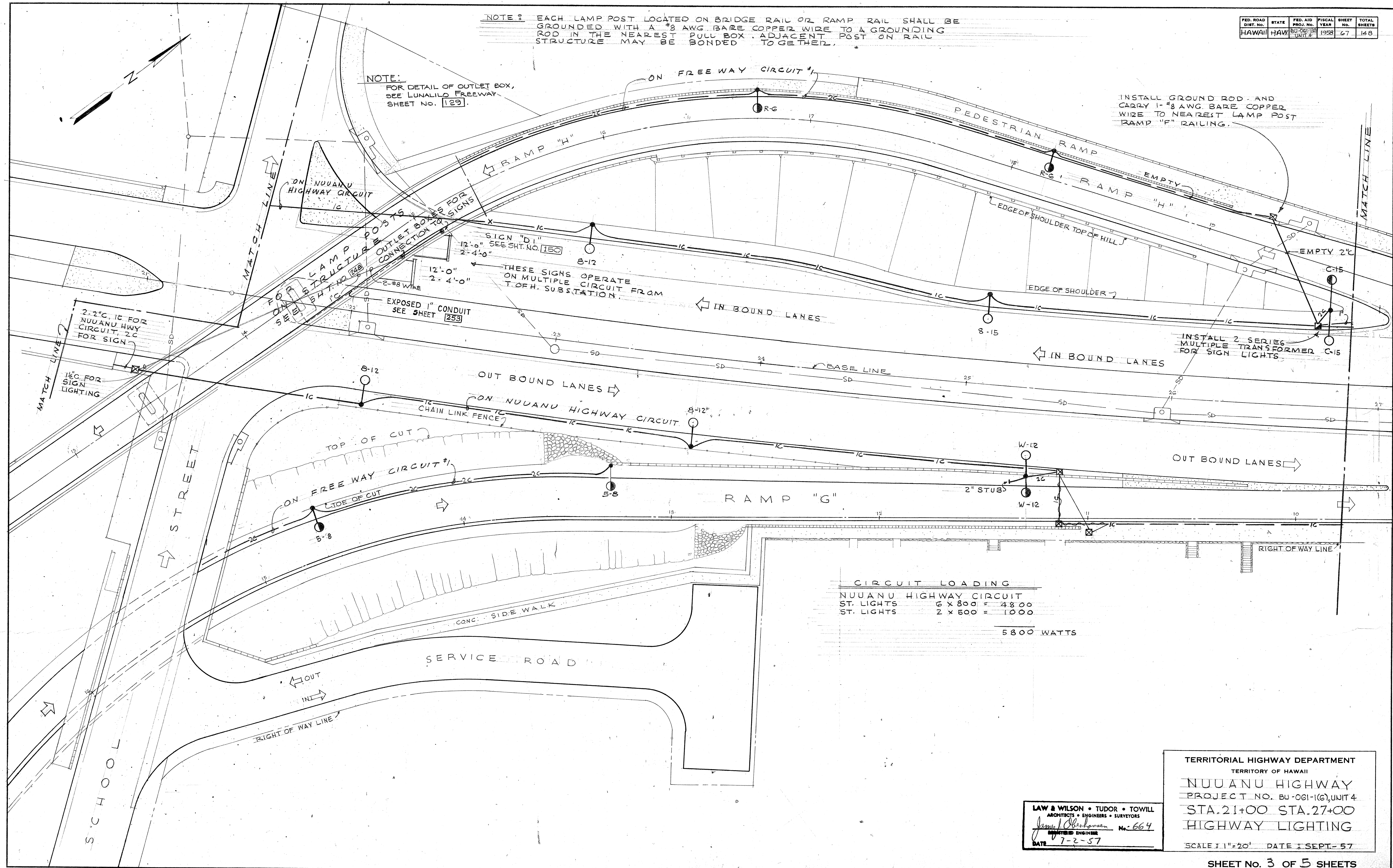
8146 (2).65



NOTE: EACH LAMP POST LOCATED ON BRIDGE RAIL OR RAMP RAIL SHALL BE GROUNDED WITH A #8 AWG. BARE COPPER WIRE TO A GROUNDING ROD IN THE NEAREST PULL BOX. ADJACENT POST ON RAIL STRUCTURE MAY BE BONDED TOGETHER.

NOTE: FOR DETAIL OF OUTLET BOX, SEE LUNALILO FREEWAY SHEET NO. 129.

INSTALL GROUND ROD AND CARRY 1-#8 AWG. BARE COPPER WIRE TO NEAREST LAMP POST RAMP "F" RAILING.

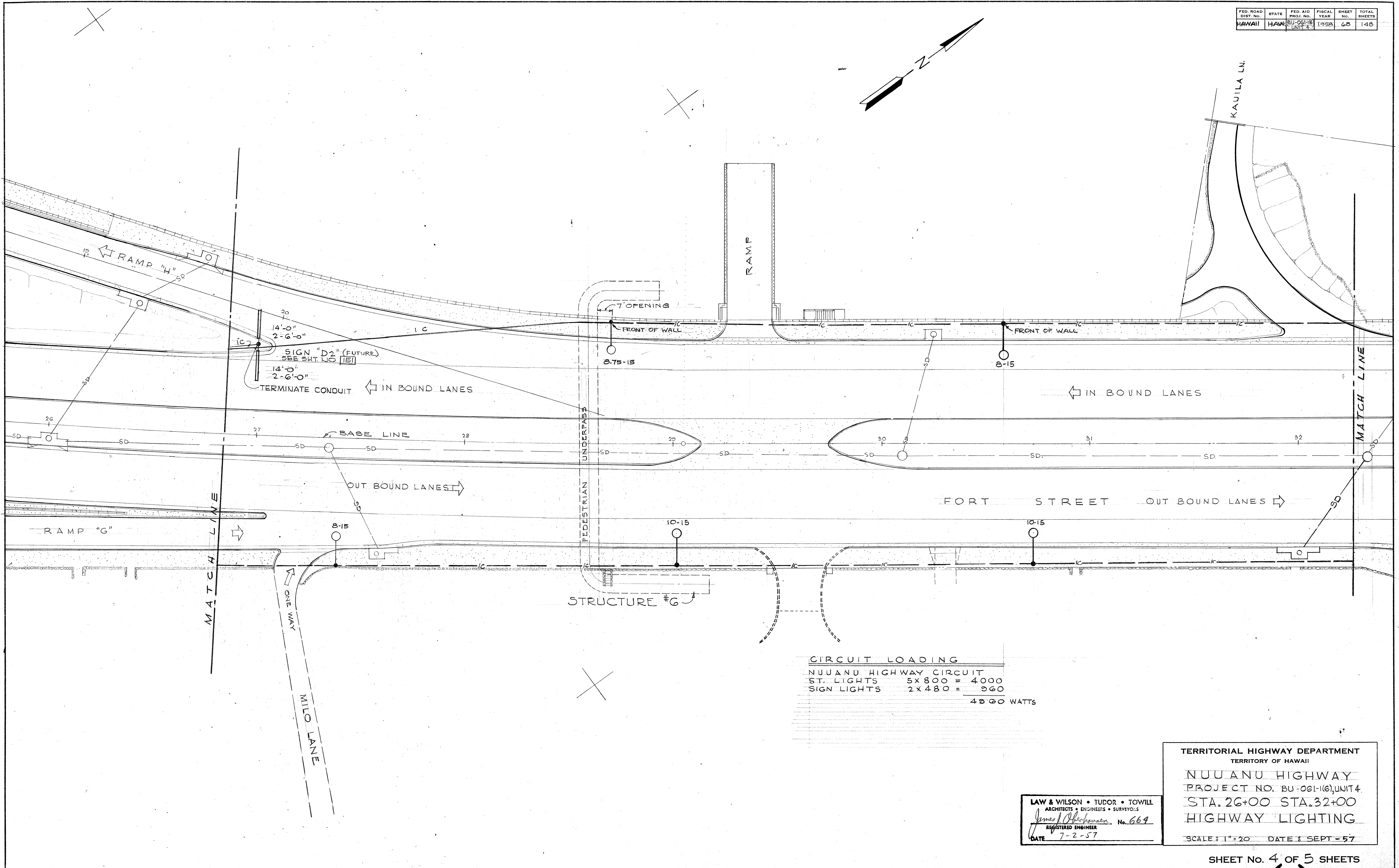


CIRCUIT LOADING		
NUUANU HIGHWAY CIRCUIT		
ST. LIGHTS	6 x 800 =	4800
ST. LIGHTS	2 x 500 =	1000
		5800 WATTS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
DRAWN BY	
QUANTITIES CHECKED BY	
NOTED BY	
CHECKED BY	

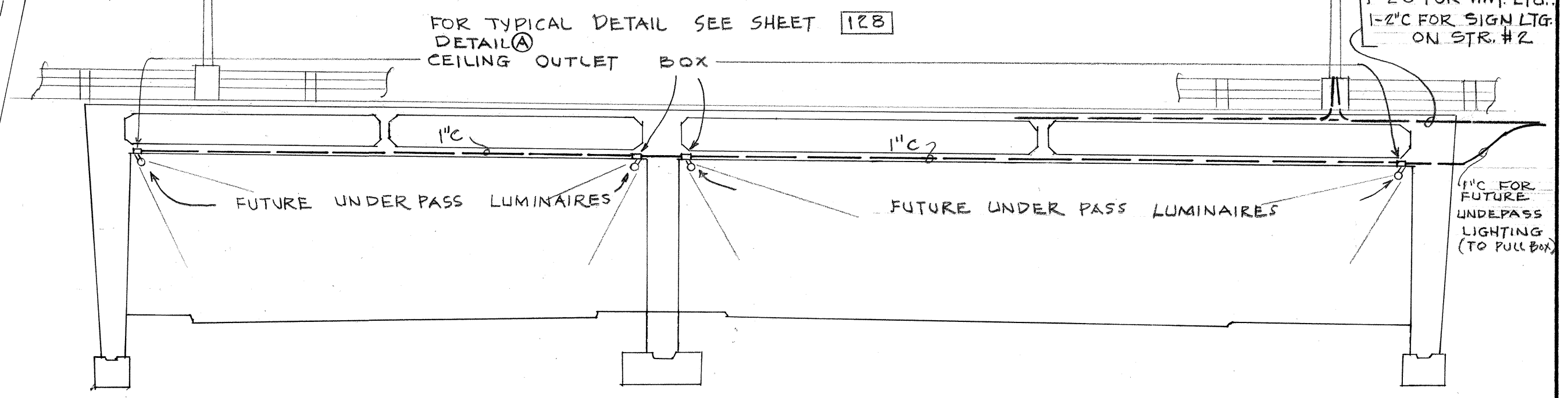
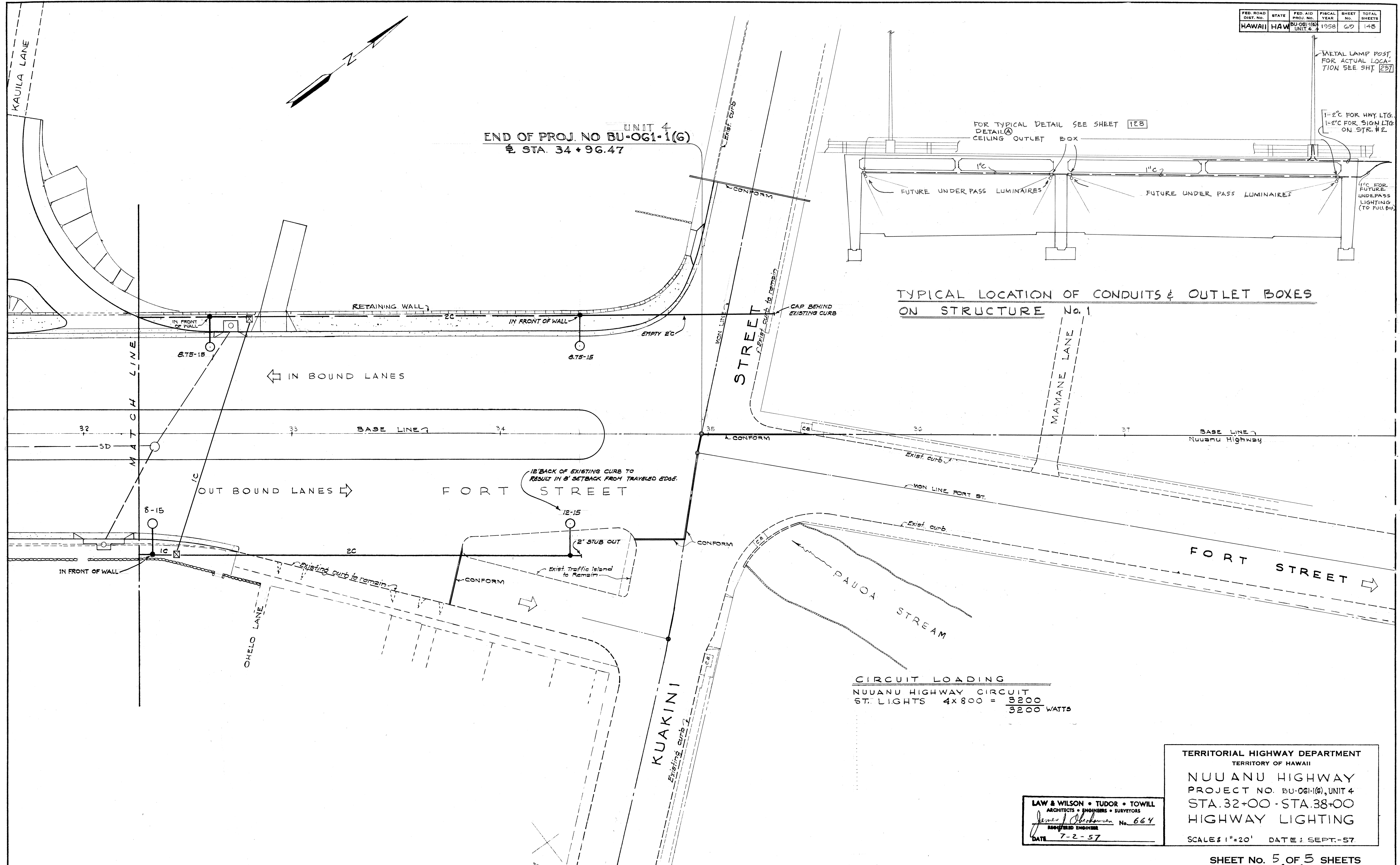
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
NUUANU HIGHWAY
PROJECT NO. BU-061-1(6), UNIT 4
STA. 21+00 STA. 27+00
HIGHWAY LIGHTING
SCALE: 1"=20' DATE: SEPT-57

LAW & WILSON • TUDOR • TOWILL
ARCHITECTS • ENGINEERS • SURVEYORS
James I. O'Brien
REGISTERED ENGINEER No. 664
DATE 7-2-57



SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES CHECKED BY	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	BU-061-1(6)	1958	60	148



TYPICAL LOCATION OF CONDUITS & OUTLET BOXES ON STRUCTURE No. 1

CIRCUIT LOADING
 NUUANU HIGHWAY CIRCUIT
 ST. LIGHTS 4x800 = 3200
 3200 WATTS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
DRAWN BY	
QUANTITIES BY	
NOTE BOOK	
NO.	

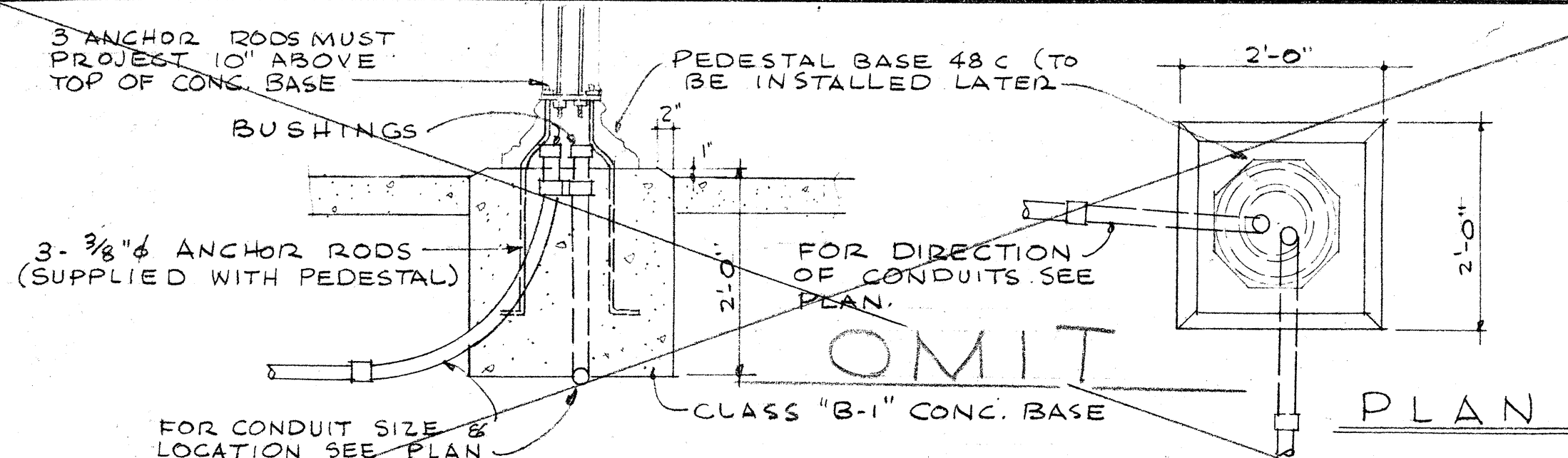
LAW & WILSON • TUDOR • TOWILL
 ARCHITECTS • ENGINEERS • SURVEYORS
 James J. O'Brien No. 664
 REGISTERED ENGINEER
 DATE 7-2-57

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 NUUANU HIGHWAY
 PROJECT NO. BU-061-1(6), UNIT 4
 STA. 32+00 - STA. 38+00
 HIGHWAY LIGHTING
 SCALE: 1"=20' DATE: SEPT.-57

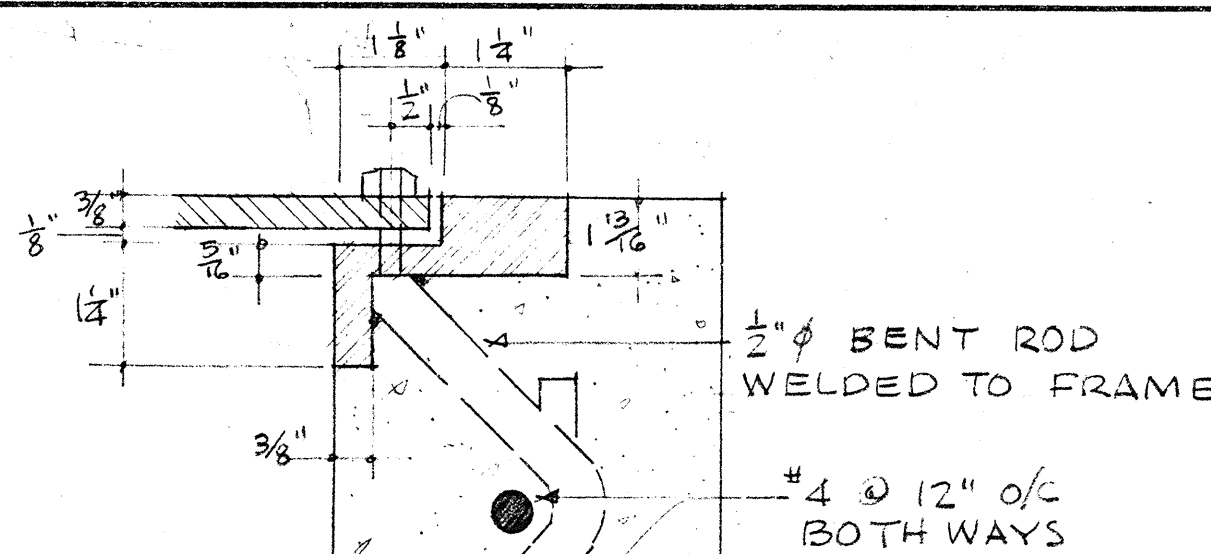
SHEET NO. 5 OF 5 SHEETS

.S146 (2).69 135

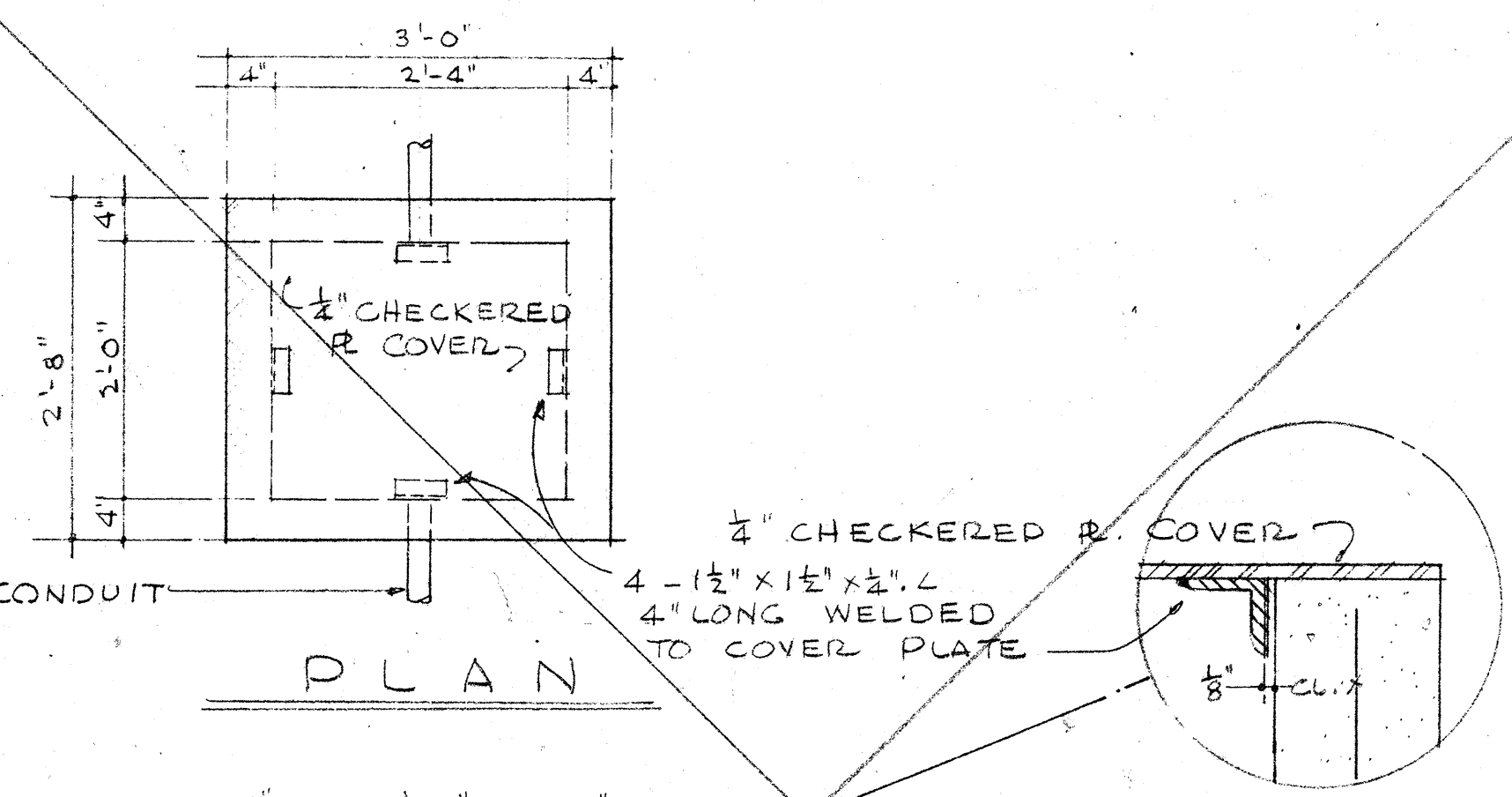
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BU-061(1)	1958	70	148
HAWAII	HAW.	F-072(1)	1958	80	148



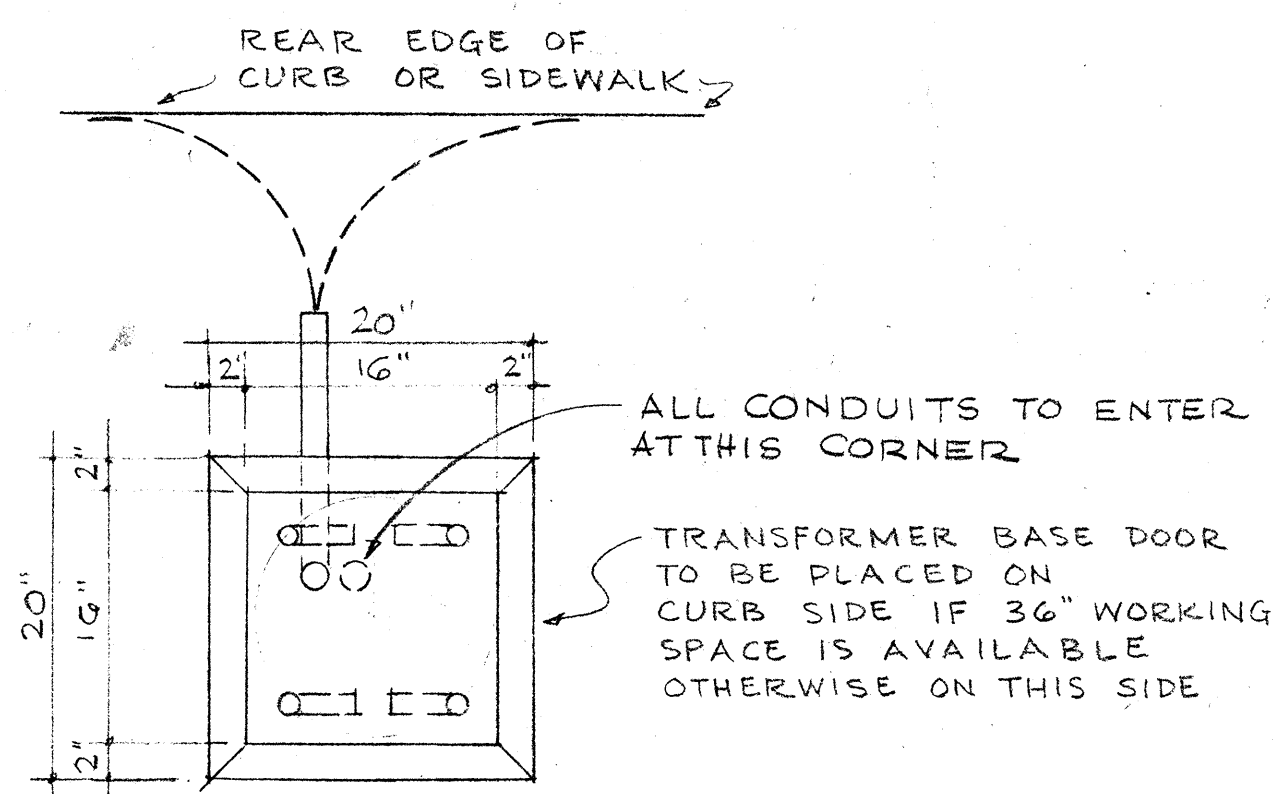
SECTION
BASE FOR TRAFFIC SIGNAL STANDARDS
SCALE: 3/4" = 1'-0"



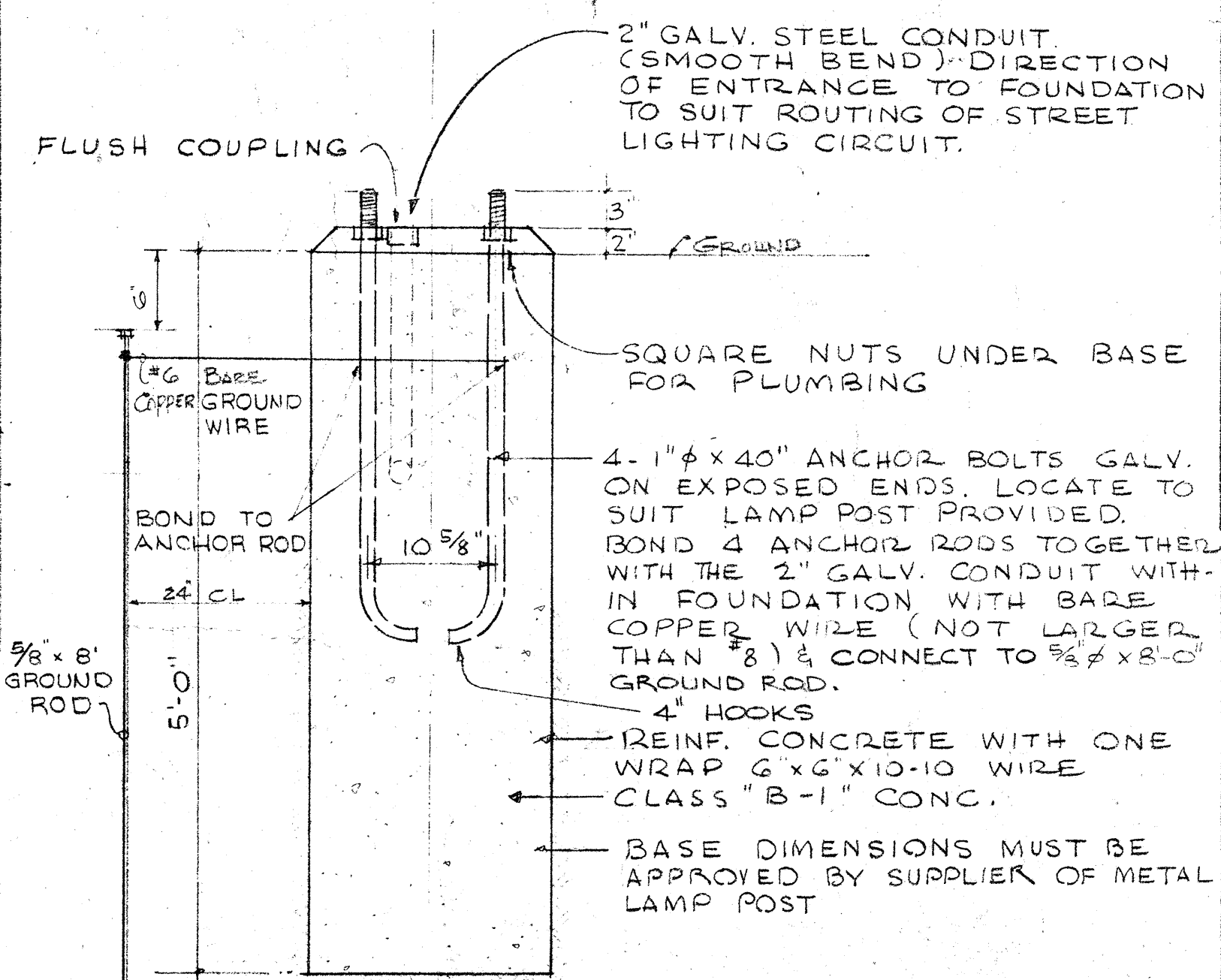
DETAIL (A)
1/2" ACTUAL SIZE



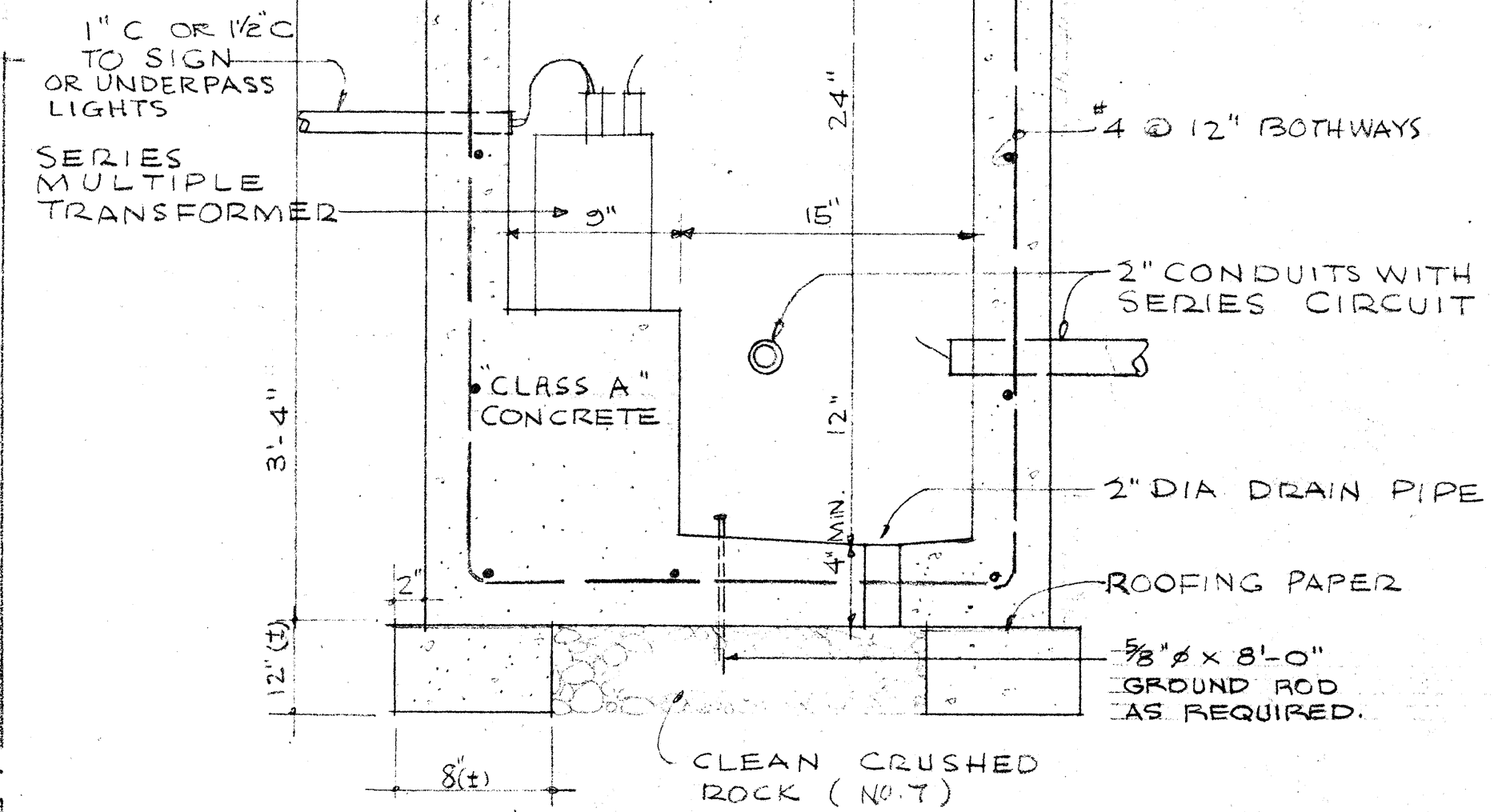
SECTION A-A
SCALE: 3/4" = 1'-0"
PULL BOX DETAIL - TYPE "A"



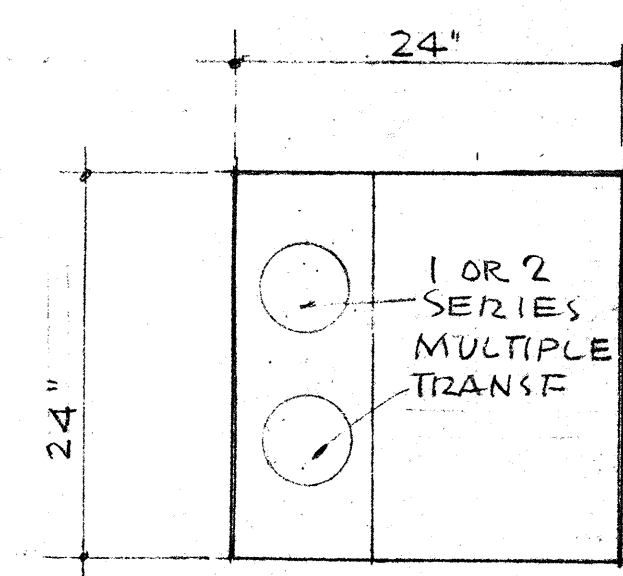
PLAN
FOR ACTUAL NUMBER & LOCATION OF ENTERING CONDUITS, SEE LAYOUT PLAN. SHT. NOS. [121] TO [124] INCL., ALSO SHT. NOS. [131] TO [135] INCL.



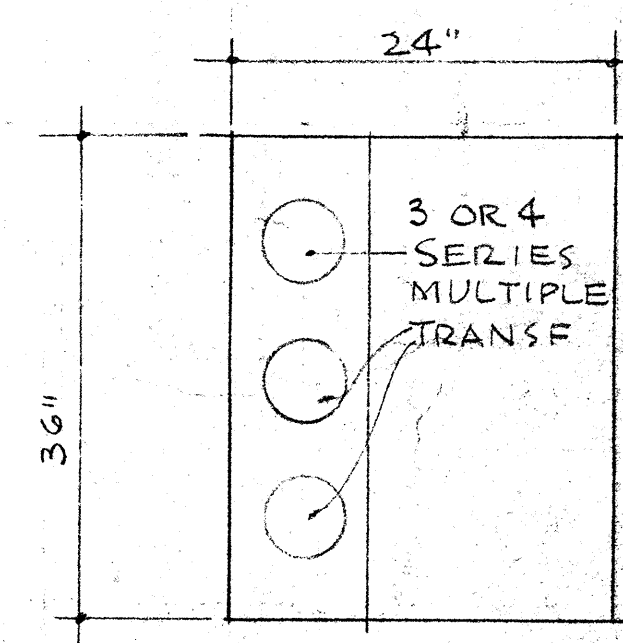
SECTION
METAL LAMP POST
CONCRETE BASE
SCALE: 1" = 1'-0"



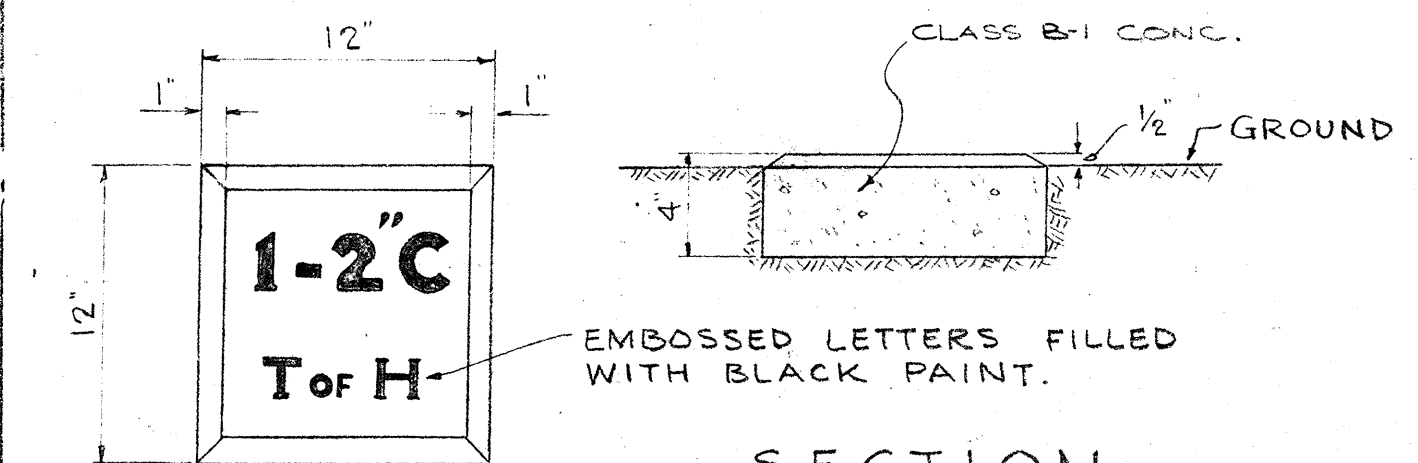
SECTION THRU
SCALE: 1 1/2" = 1'-0"
PULL BOX - TYPE "B" DETAIL
NOTE: 1. PULL BOX TYPE "C" SECTION SIMILAR TO TYPE "B"
2. FOR ACTUAL NUMBER & LOCATION OF ENTERING CONDUITS, SEE LAYOUT PLAN. SHT. NOS. [121] TO [124] INCL., ALSO SHT. NOS. [131] TO [135] INCL.



PLAN
PULL BOX TYPE "B"

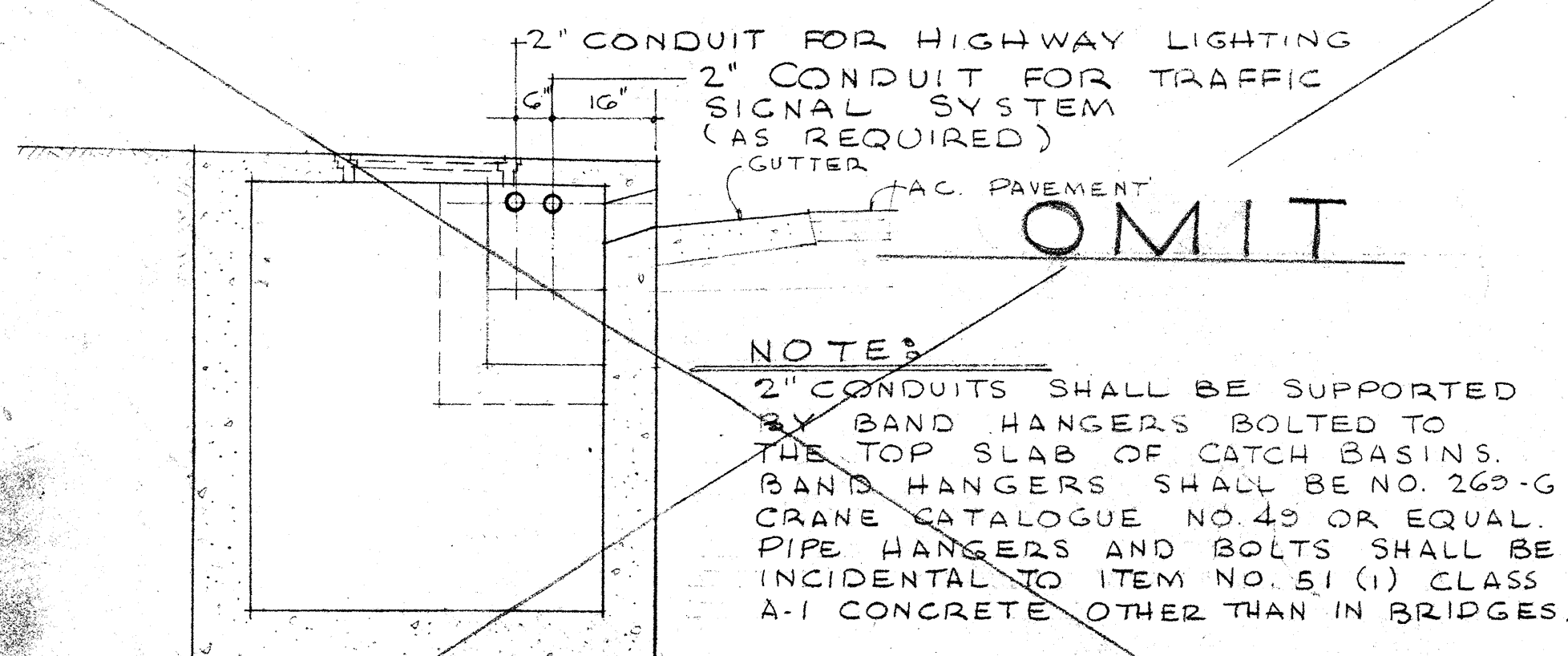


PLAN
PULL BOX TYPE "C"



PLAN
CONDUIT MARKER DETAIL
SCALE: 1 1/2" = 1'-0"

NOTE: 3
THESE DETAILS ARE INTENDED TO SUPPLEMENT TERRITORY STANDARD. IF ANY CONFLICT, TERRITORY STANDARDS WILL CONTROL.



TYPICAL SECTION SHOWING CONDUITS
PASSING THROUGH CATCH BASIN
SCALE: 1/2" = 1'-0"

See Project No. F-072-1(1), Unit 3
for Tracing

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
LUNALILO FREEWAY
PROJECT NO. F-072-1(1), UNIT 3
NUUANU HIGHWAY
PROJECT NO. BU-061-1(6), UNIT 4
HIGHWAY LIGHTING
DETAILS
SEPTEMBER 1957

LAW & WILSON • TUDOR • TOWELL
ARCHITECTS • ENGINEERS • SURVEYORS
James A. Blackman
REGISTERED ENGINEER
No. 664
DATE 7-2-57

SHEET NO. OF SHEETS

8173 (1).80

8146 (2).70

138