

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	802(19)			

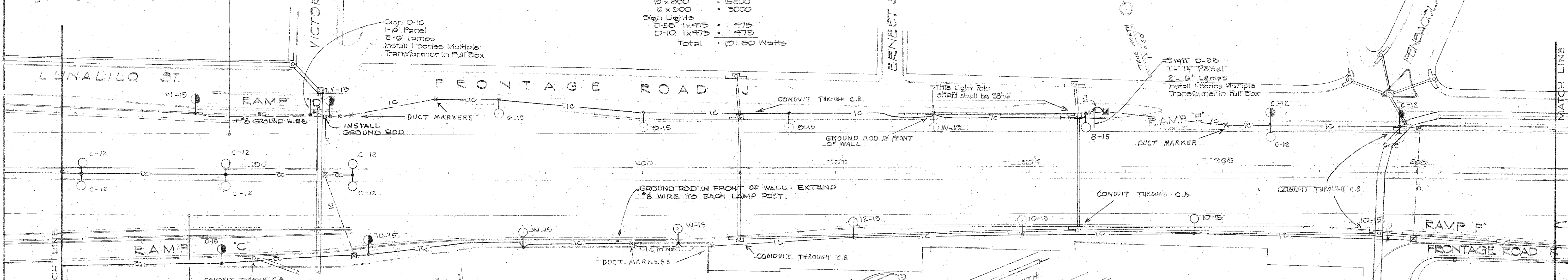
END PROJECT NO. E-008-1(6)
VINEYARD THOROUGHFARE
NESTBOUND STA. 176+00.00
LUNALILO STA. 105+74.75

All Lights on Lunaliilo Circuit #5

Circuit Loading
Roadway Lights
10 x 800 = 8000
6 x 500 = 3000
Sign Lights
D-50 1 x 475 = 475
D-10 1 x 475 = 475
Total = 12150 Watts

Sign D-10
1-18" Panel
2-6" Lamps
Install 1 Series Multiple
Transformer in Pull Box

Sign D-50
1-14" Panel
2-6" Lamps
Install 1 Series Multiple
Transformer in Pull Box



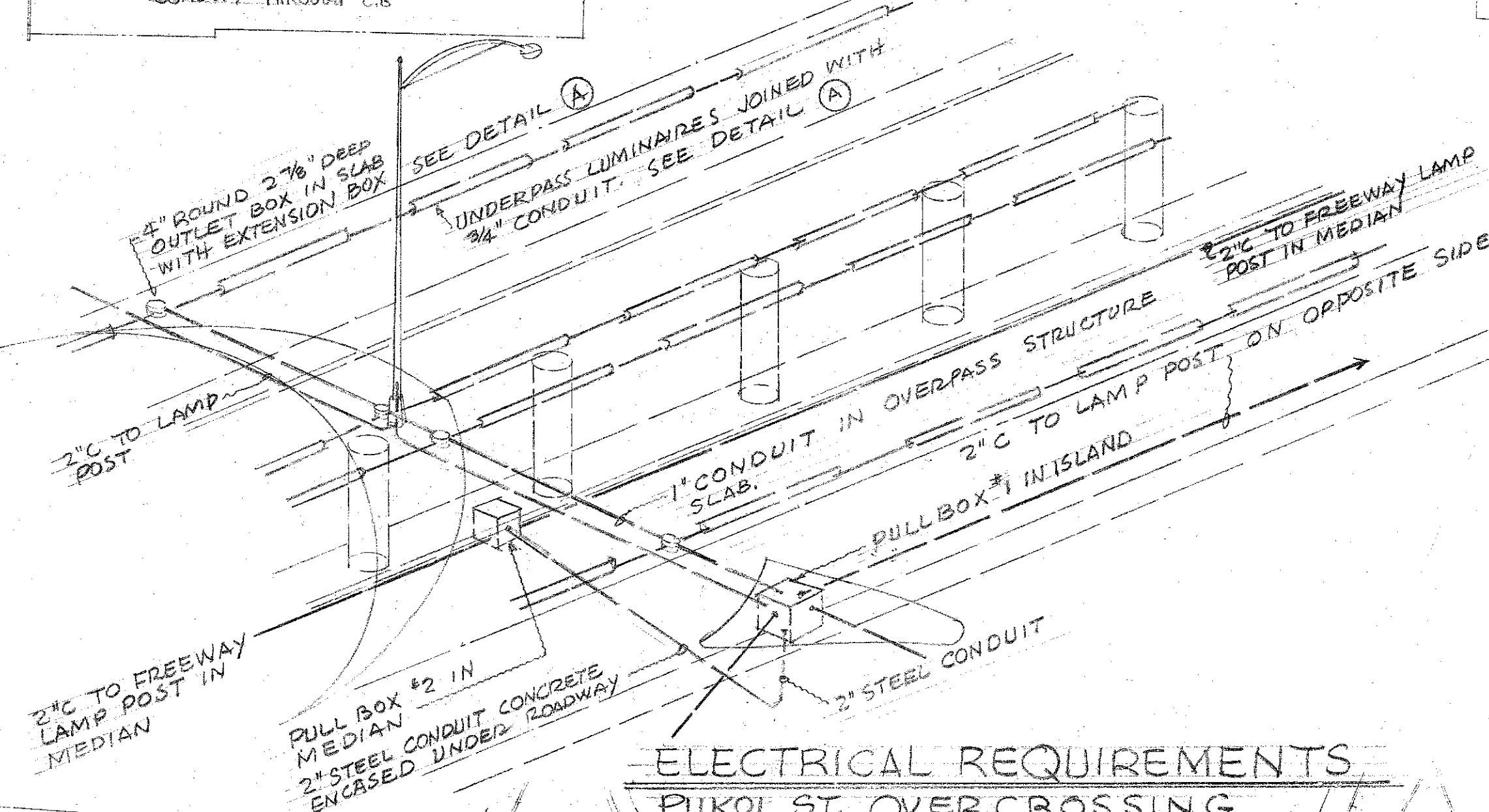
END PROJECT NO. E-008-1(6)
VINEYARD THOROUGHFARE
EASTBOUND STA. 173+00.00
LUNALILO STA. 105+74.75

POLE RISER SEE
SHEET NO. E-007.65

POLE RISER
SEE SHEET NO. E-007.65

THESE TWO LAMP
POSTS CONNECTED TO
GROUND ROD IN
PULL BOX #1

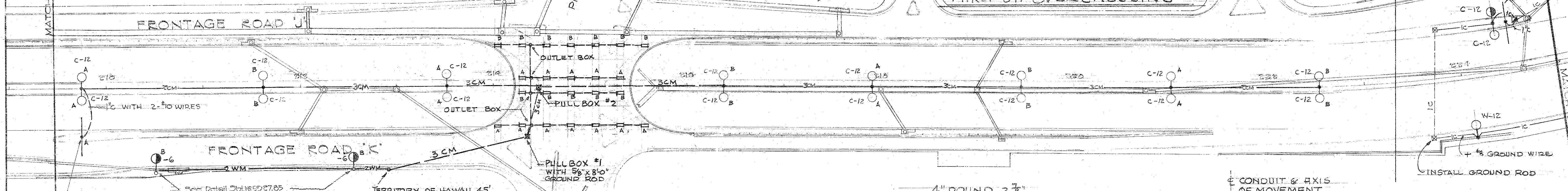
PULL BOX #1
1-2" C LEAVES THIS
PULL BOX VERTICALLY
SEE DETAIL



These Lights on Existing Lunaliilo Circuit

Existing Lunaliilo Circuit Loading
Roadway Lights
8 x 800 = 6400
1 x 500 = 500
Sign Light
C x 475 = 475
Total = 7375 Watts

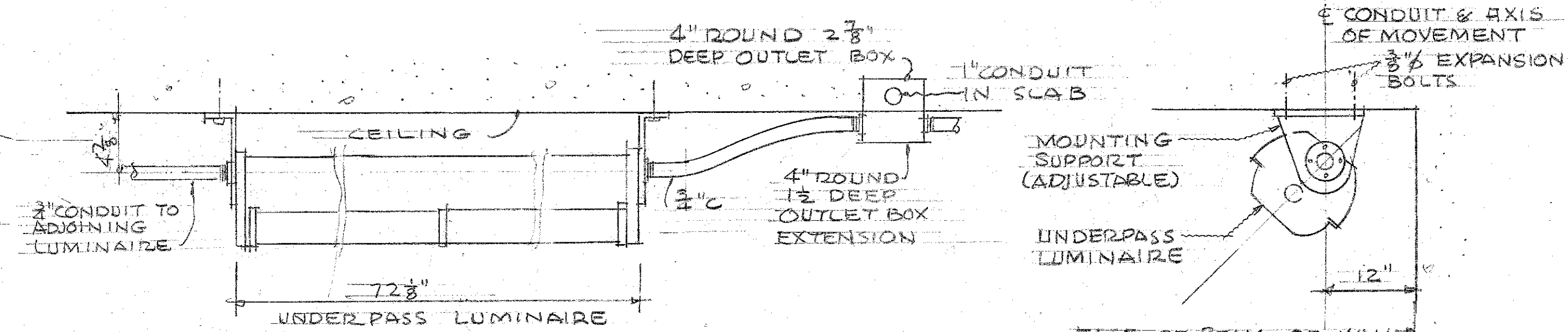
Sign D-8
1-12" Panel
4-6" Lamps
Install 2 Series Multiple
Transformer in Pull Box



NOTES: BETWEEN STA. 209 AND 222 AND
ON PIKOI STREET
ALL HIGHWAY LIGHTING LUMINAIRES, UNDER
PASS LUMINAIRES AND SIGN LIGHTING
LUMINAIRES SHALL OPERATE FROM A 120/240
VOLT, 1Ø, 3 WIRE SERVICE. LETTER ON EACH
SYMBOL INDICATES WHETHER CONNECTED TO
LEG "A" OR LEG "B"

ALL WIRING BETWEEN PULL BOX #1 AND UNDER
PASS LUMINAIRES SHALL BE #8 AWG.

ALL OTHER MULTIPLE CIRCUIT WIRING (TO
LAMP POSTS) IN DUCT OR BURIED SHALL
BE #2 AWG.



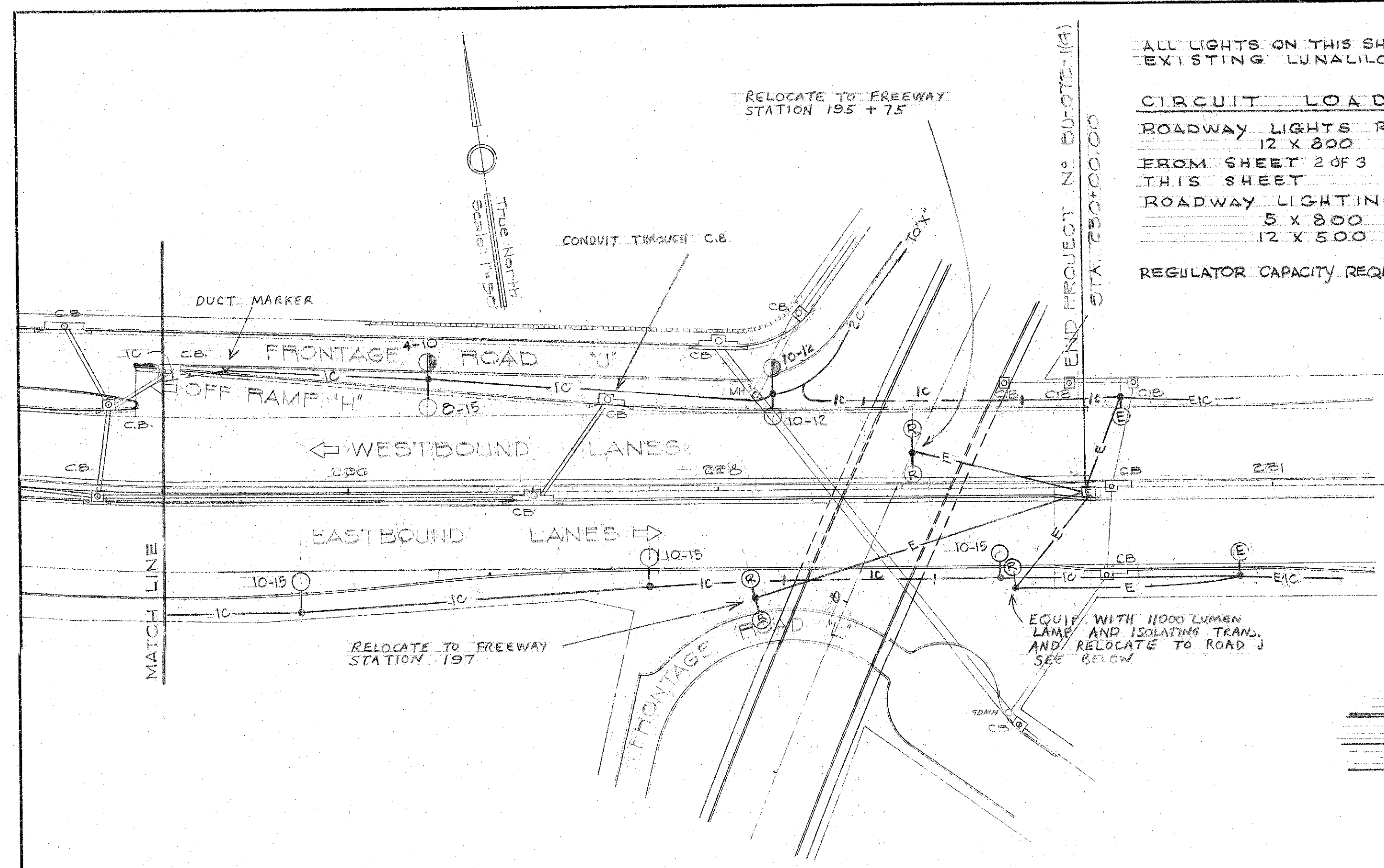
TYPICAL UNDERPASS LUMINAIRE DETAIL

NOT TO SCALE

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
HIGHWAY LIGHTING SYSTEM
LUNALILO FREEWAY
PELE ST. TO KEEAUMOKU ST.
PROJECT NO. BU-072(10)

DATE	DESIGNED BY	TRACED BY	QUANTITIES CHECKED BY	NOTED BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	2007-14			



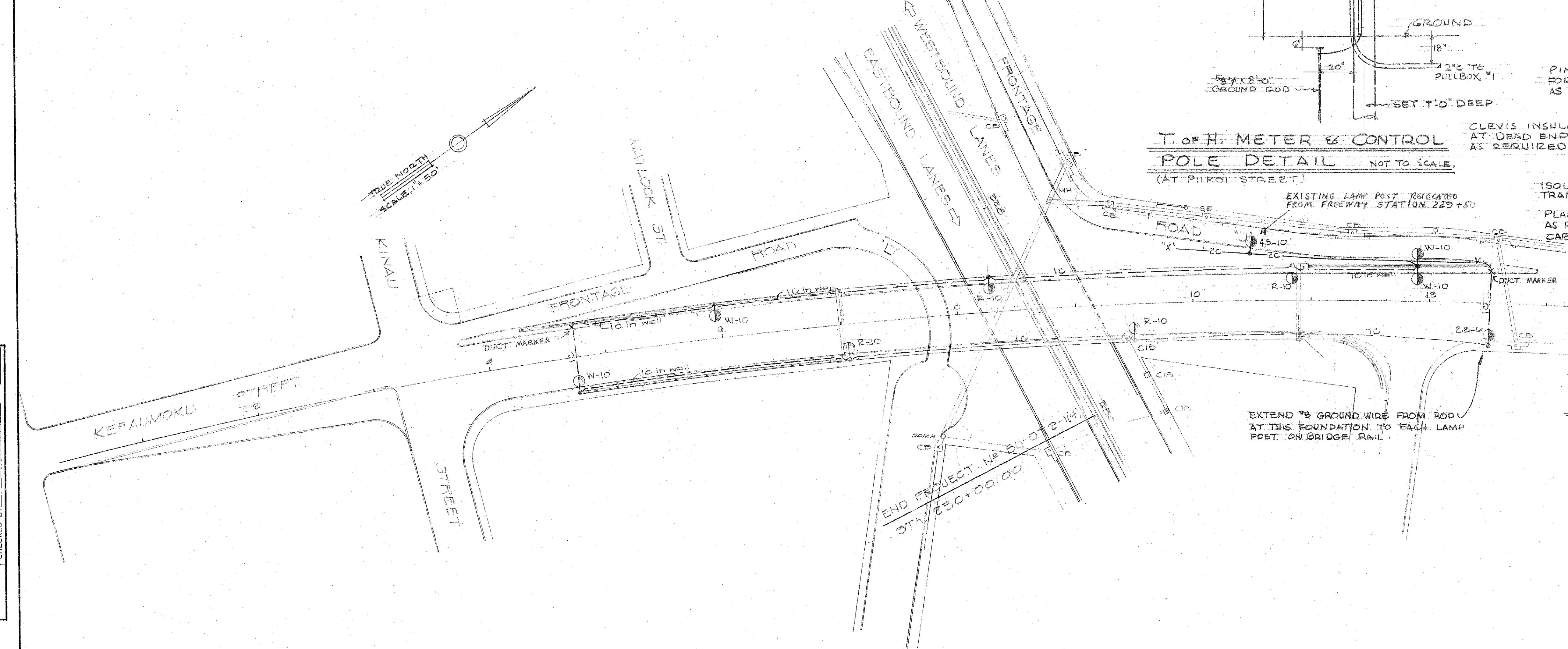
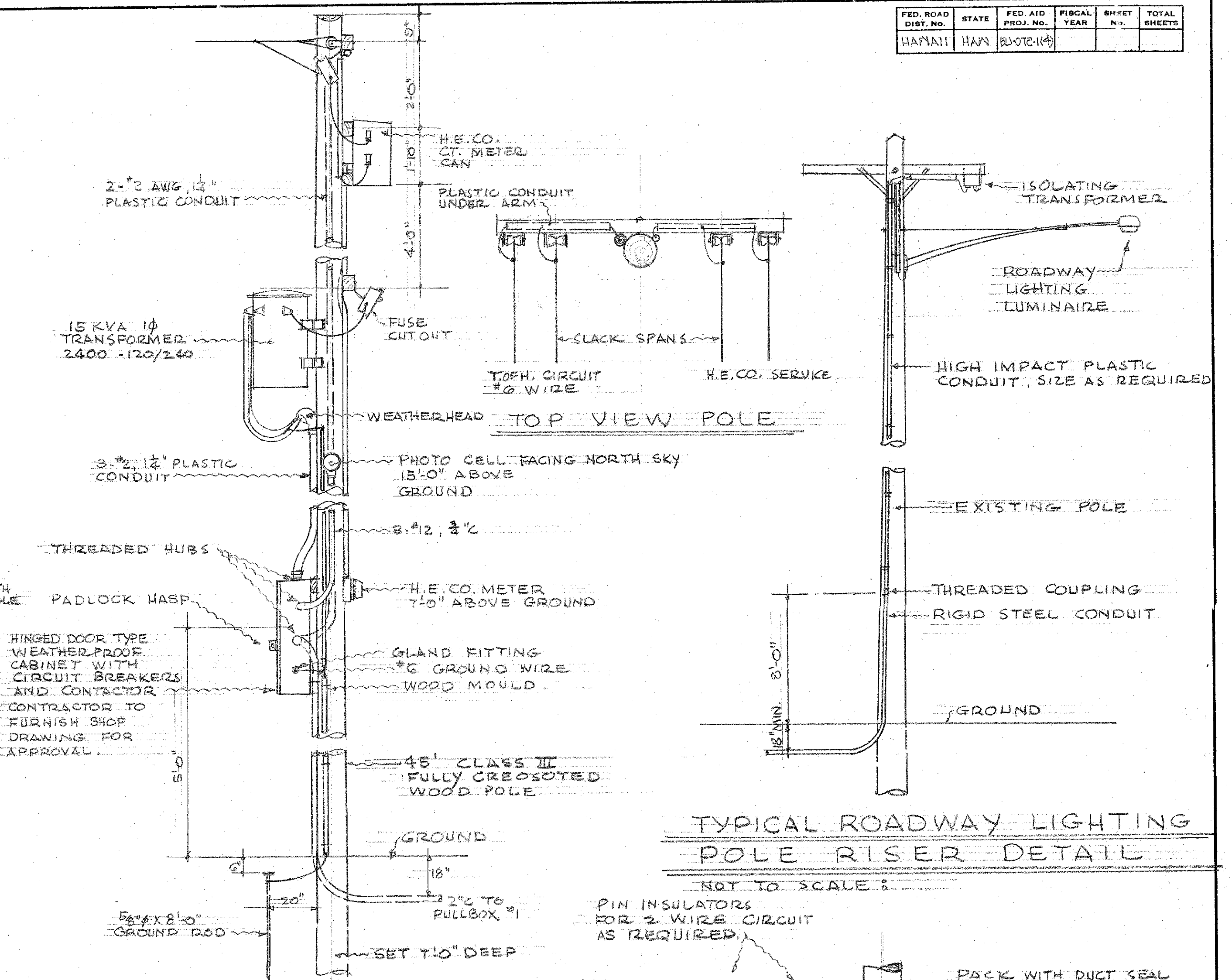
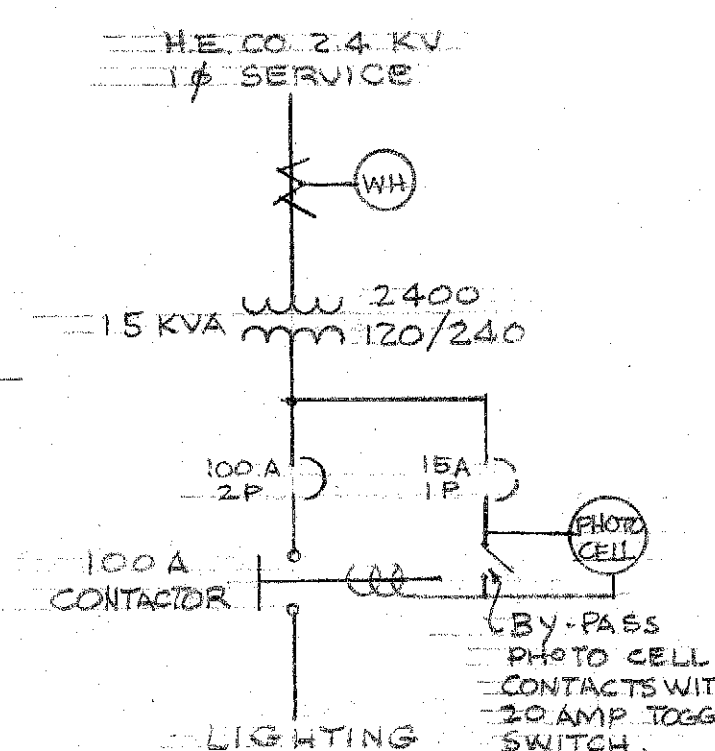
ALL LIGHTS ON THIS SHEET ON EXISTING LUNALILO CIRCUIT.

CIRCUIT LOADING

ROADWAY LIGHTS REMAINING
 12 X 800 = 9600
 FROM SHEET 2 OF 3 = 3050
 THIS SHEET = 3050
 ROADWAY LIGHTING
 5 X 800 = 4000
 12 X 500 = 6000

REGULATOR CAPACITY REQUIRED = 22650 WATTS

**ONE LINE DIAGRAM
 METER & CONTROL POLE
 AT PIKOI STREET**



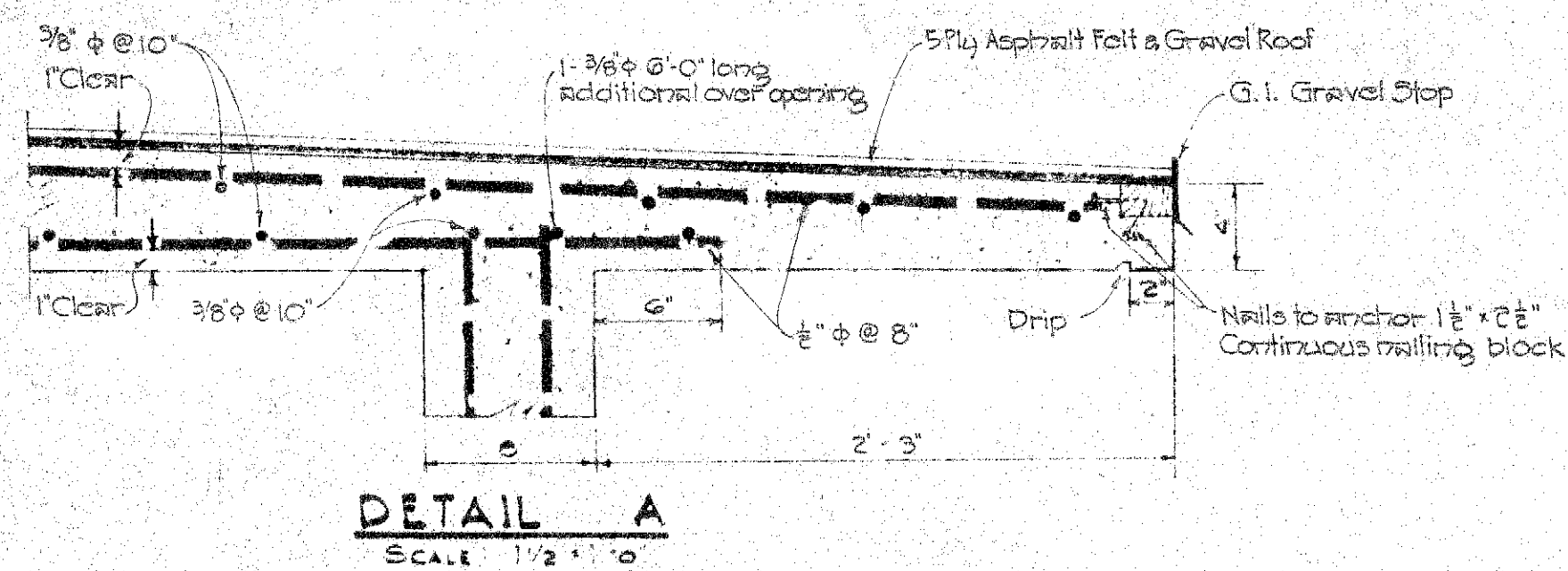
**TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 HIGHWAY LIGHTING SYSTEM
 LUNALILO FREEWAY
 PELE ST. TO KEEALIMOKU ST.
 PROJECT No. BU-072-14**

SHEET No. 4 OF 7 SHEETS

5927 E403

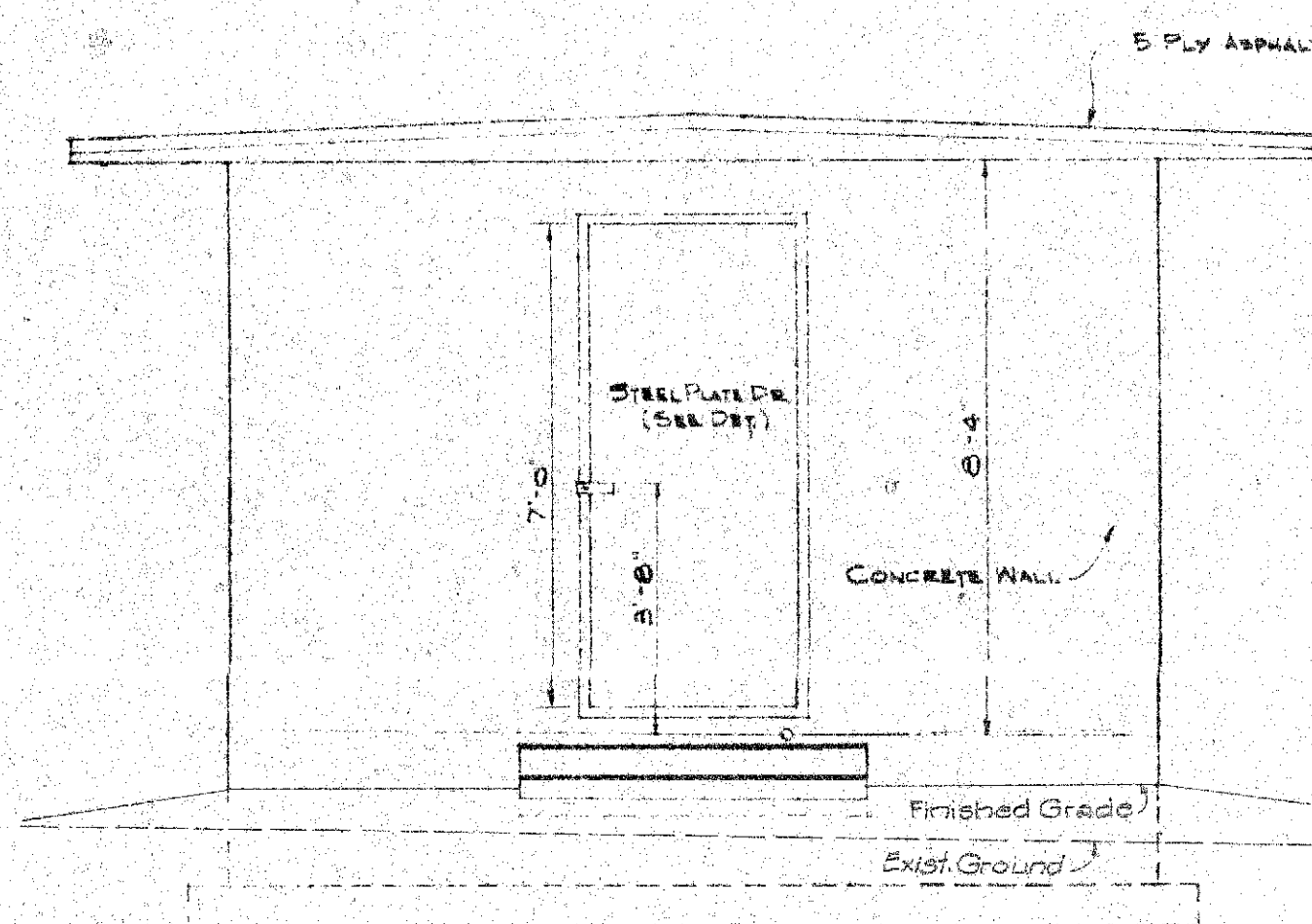
DESIGNED BY	DATE
TRACED BY	
QUANTITIES CHECKED BY	
NOTE BOOK	
CHECKED BY	
No.	

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
ORIGINAL	

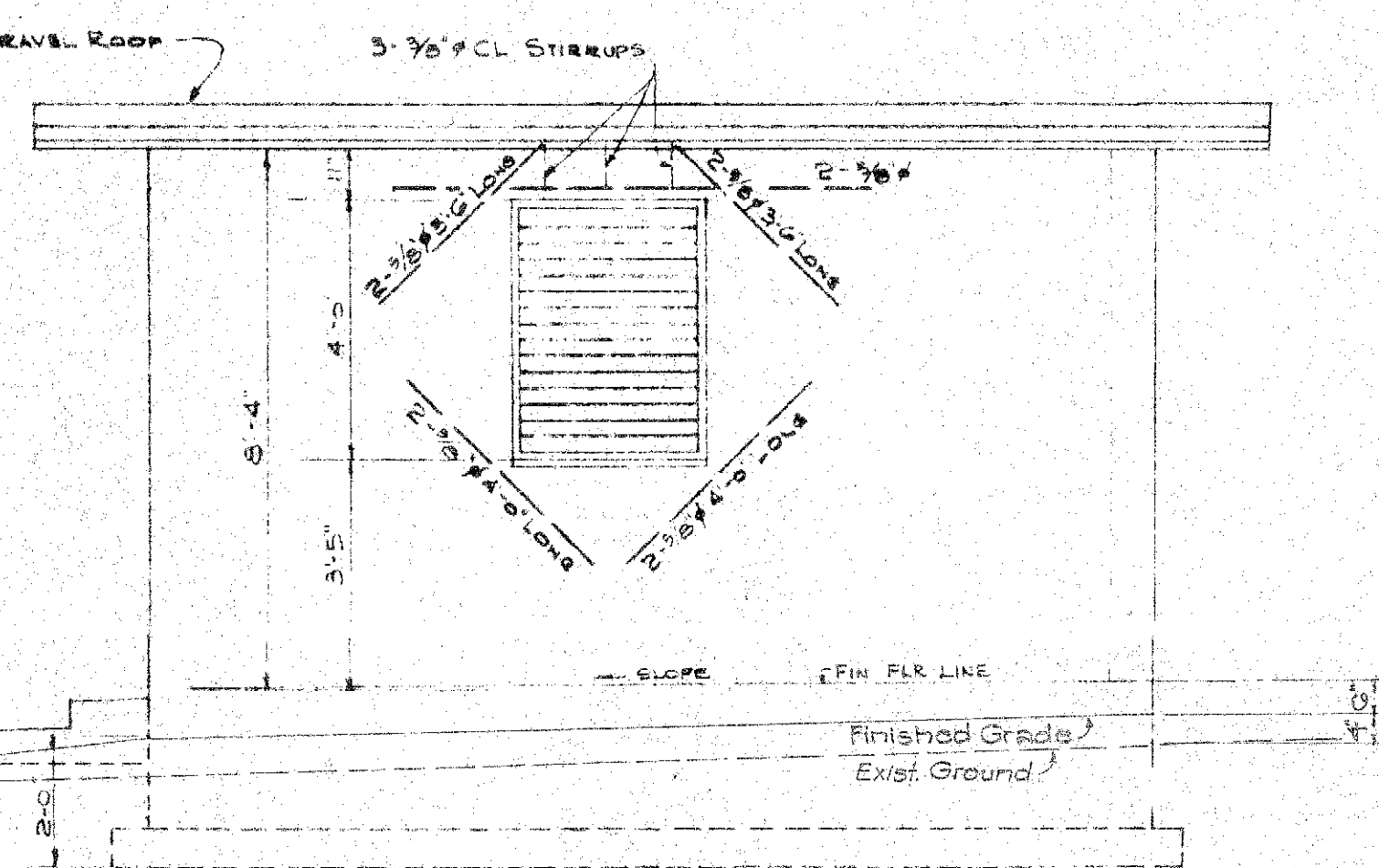


NOTE:

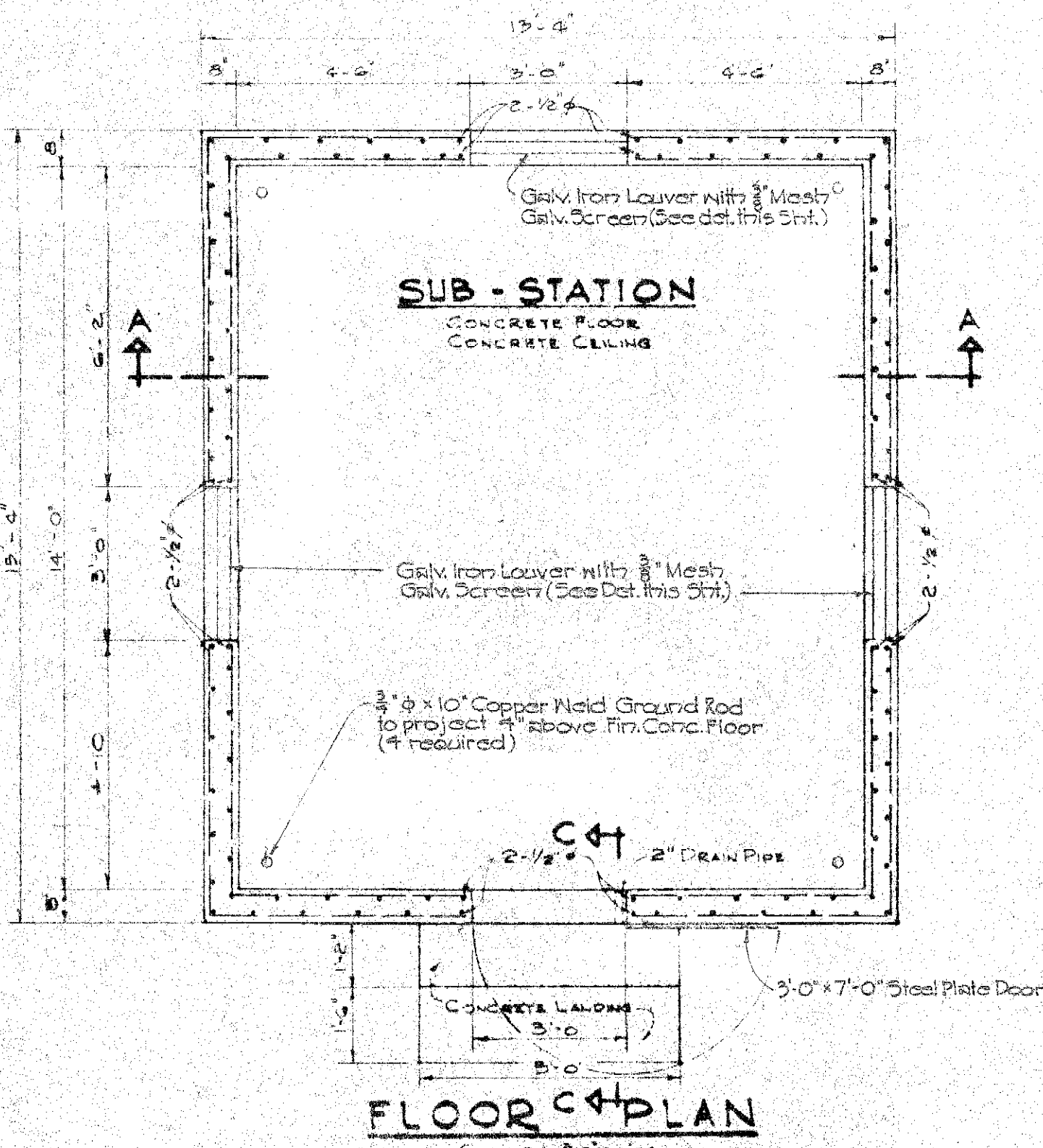
CONCRETE AND CONCRETE FINISH
ALL CONCRETE SHALL BE CLASS A-1 UNLESS OTHERWISE NOTED.
ALL EXPOSED EXTERIOR SURFACES OF CONCRETE WALLS AND ROOF
SHALL BE GIVEN CLASS 2 RUBBED FINISH.



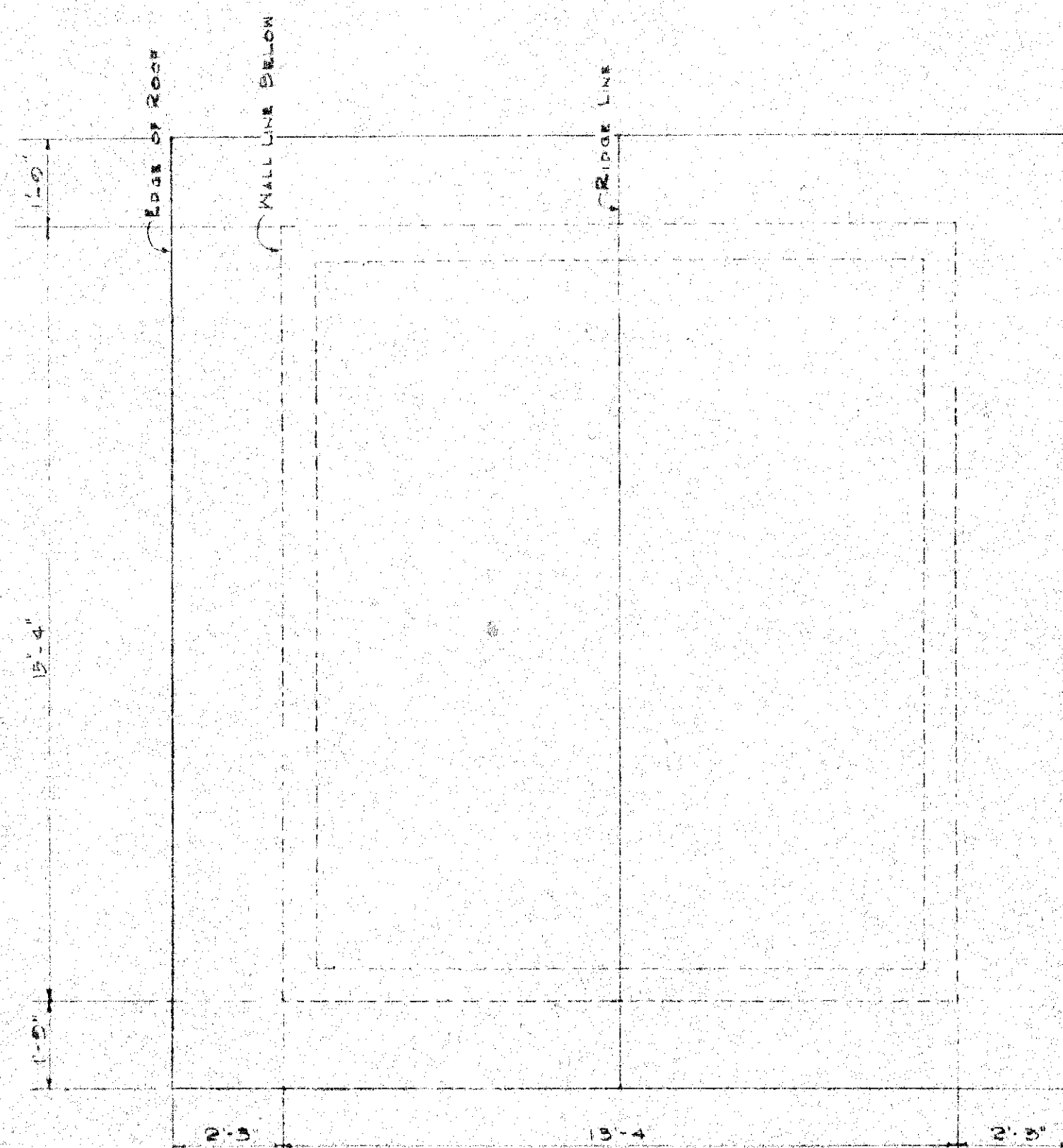
FRONT ELEVATION
SCALE: 3/8" = 1'-0"



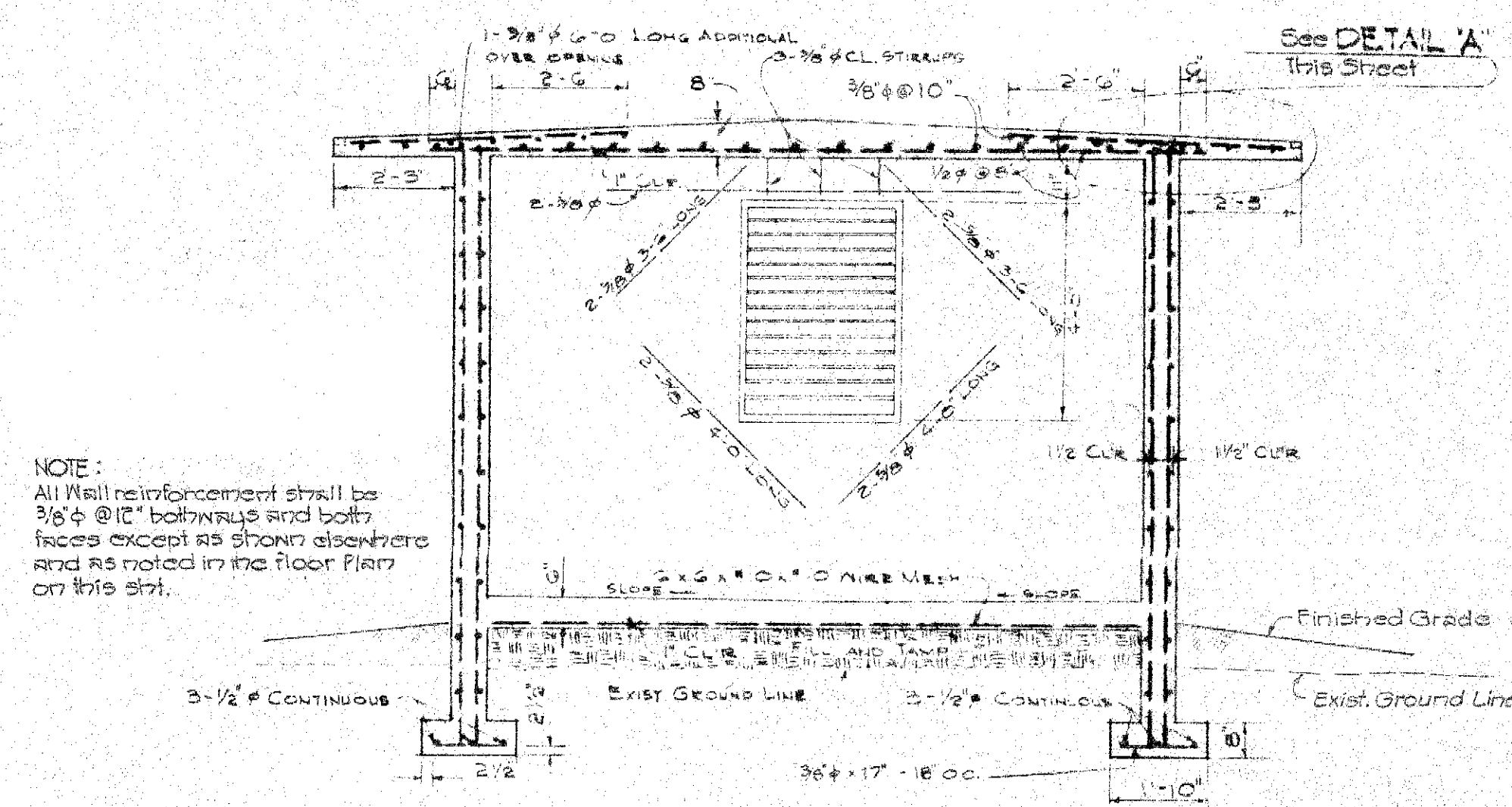
SIDE ELEVATION
SCALE: 3/8" = 1'-0"



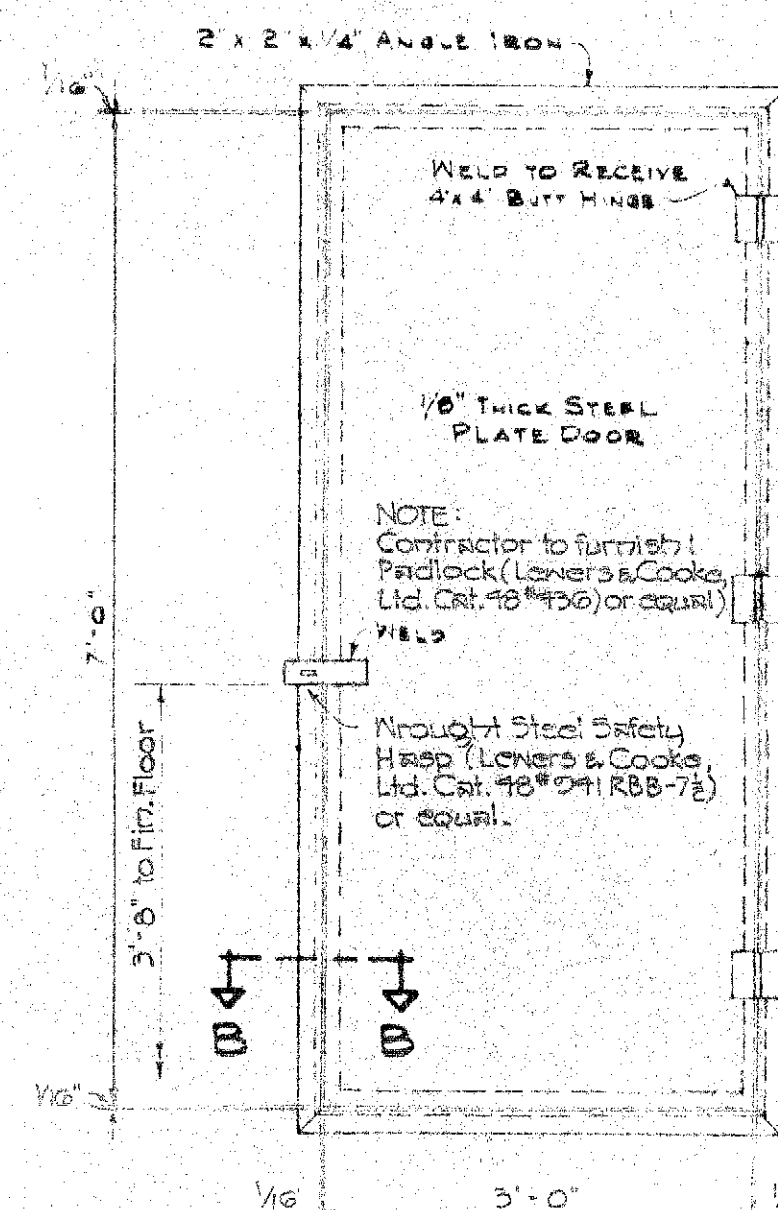
FLOOR PLAN
SCALE: 3/8" = 1'-0"



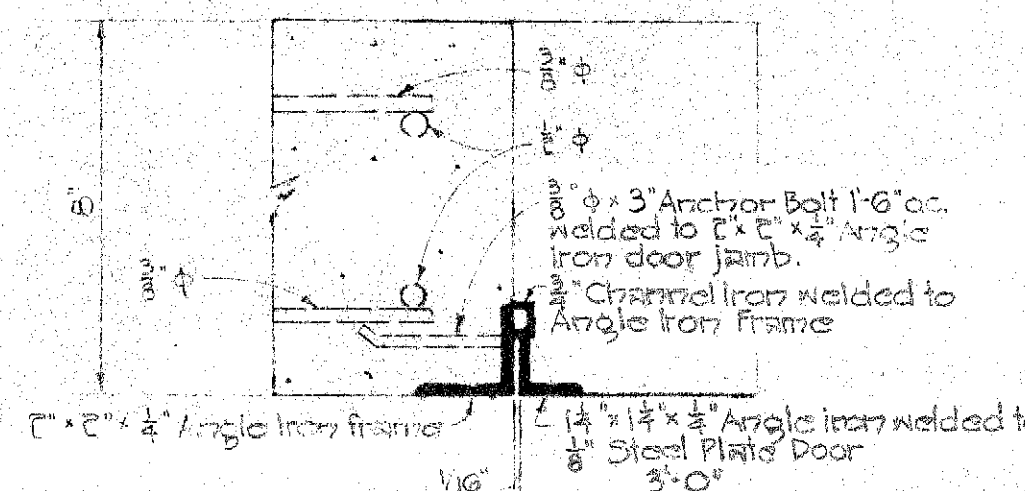
ROOF PLAN
SCALE: 3/8" = 1'-0"



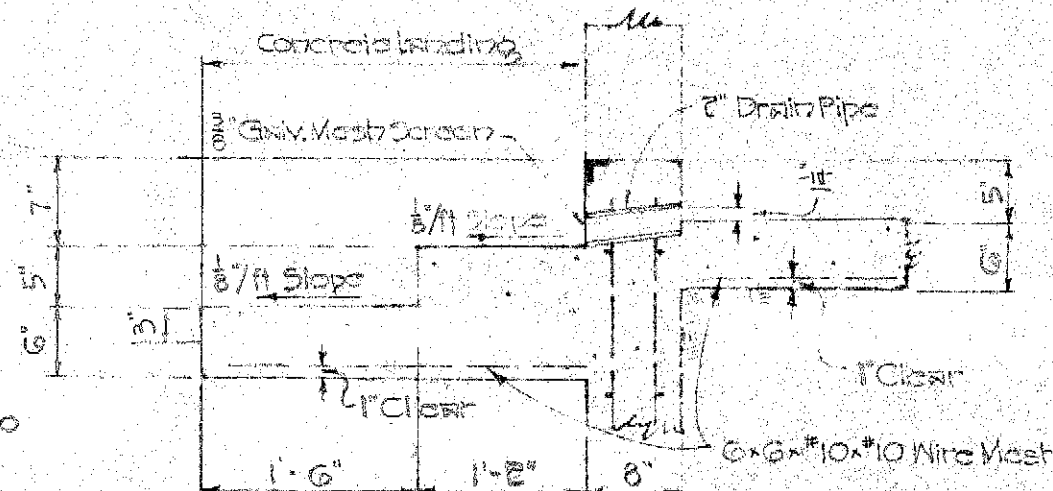
SECTION AT A-A
SCALE: 3/8" = 1'-0"



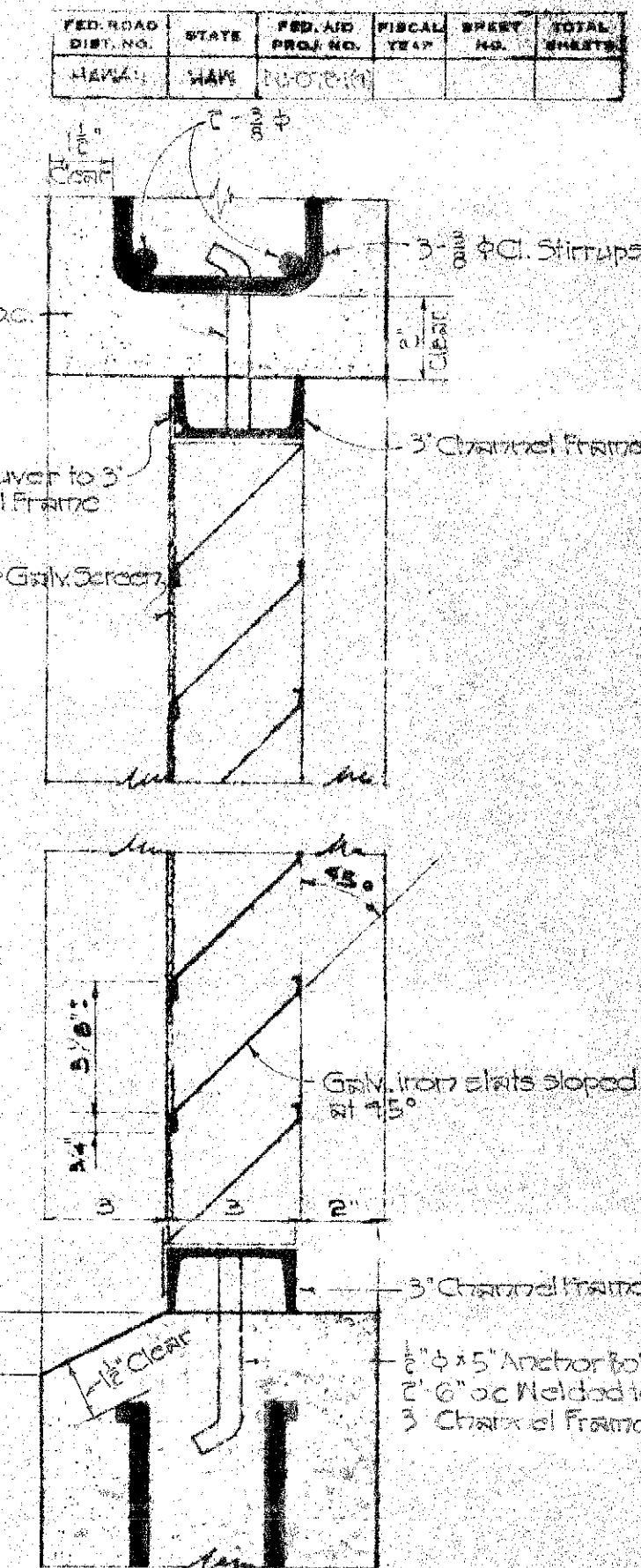
DOOR DETAIL
SCALE: 3/8" = 1'-0"



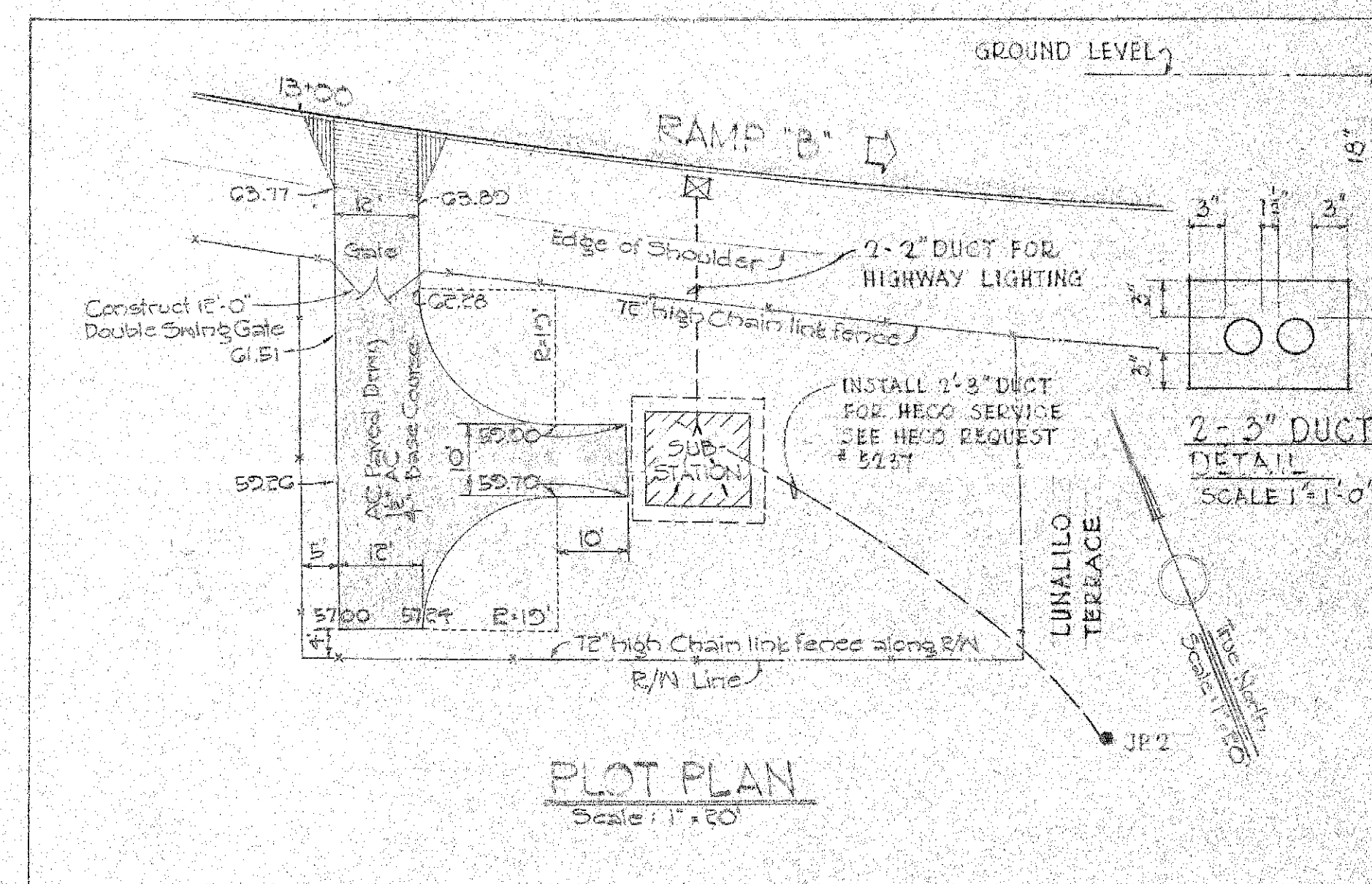
SECTION AT B-B
SCALE: 3/8" = 1'-0"



SECTION AT C-C
SCALE: 3/8" = 1'-0"



LOUVER DETAIL
SCALE: 3/8" = 1'-0"



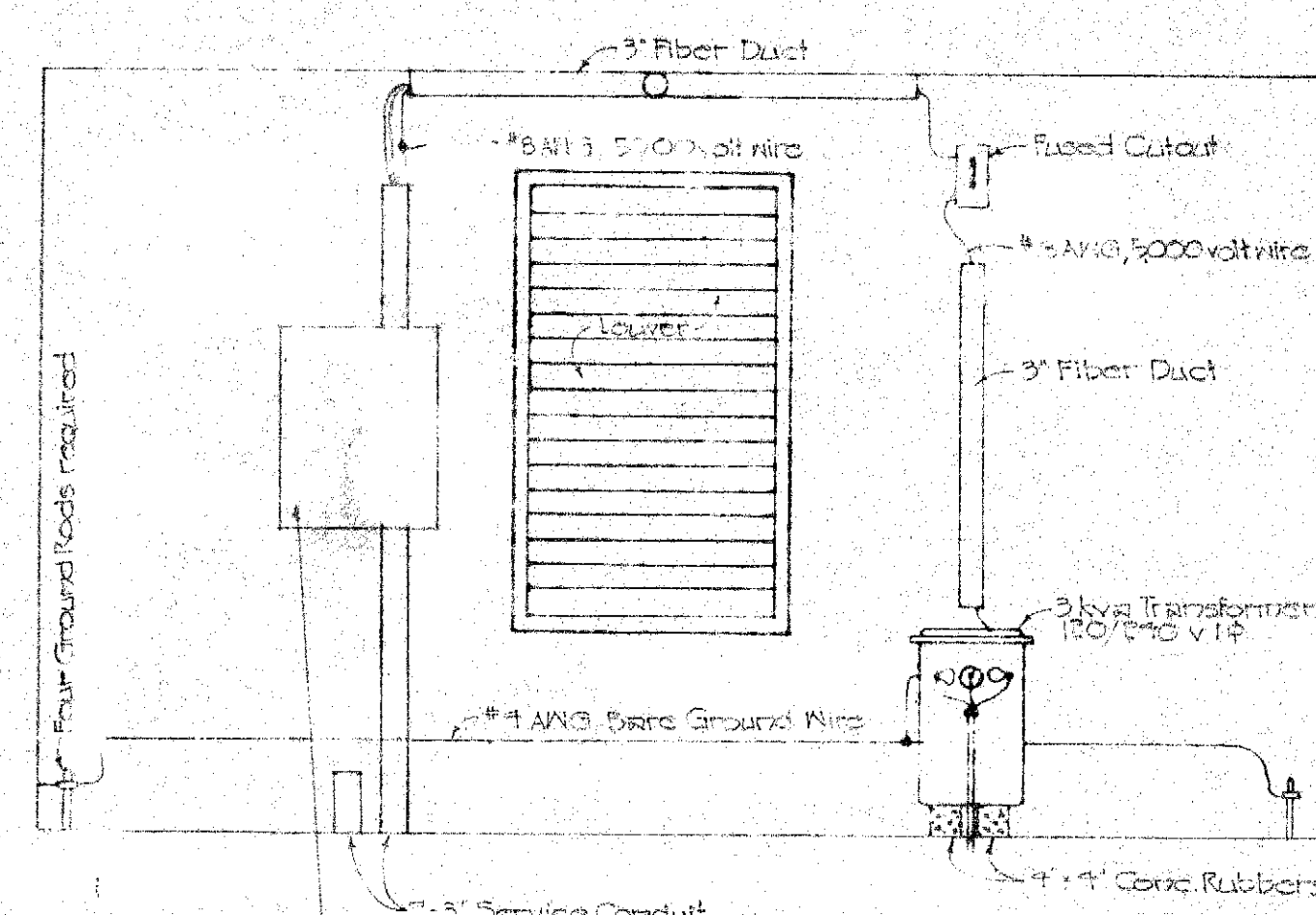
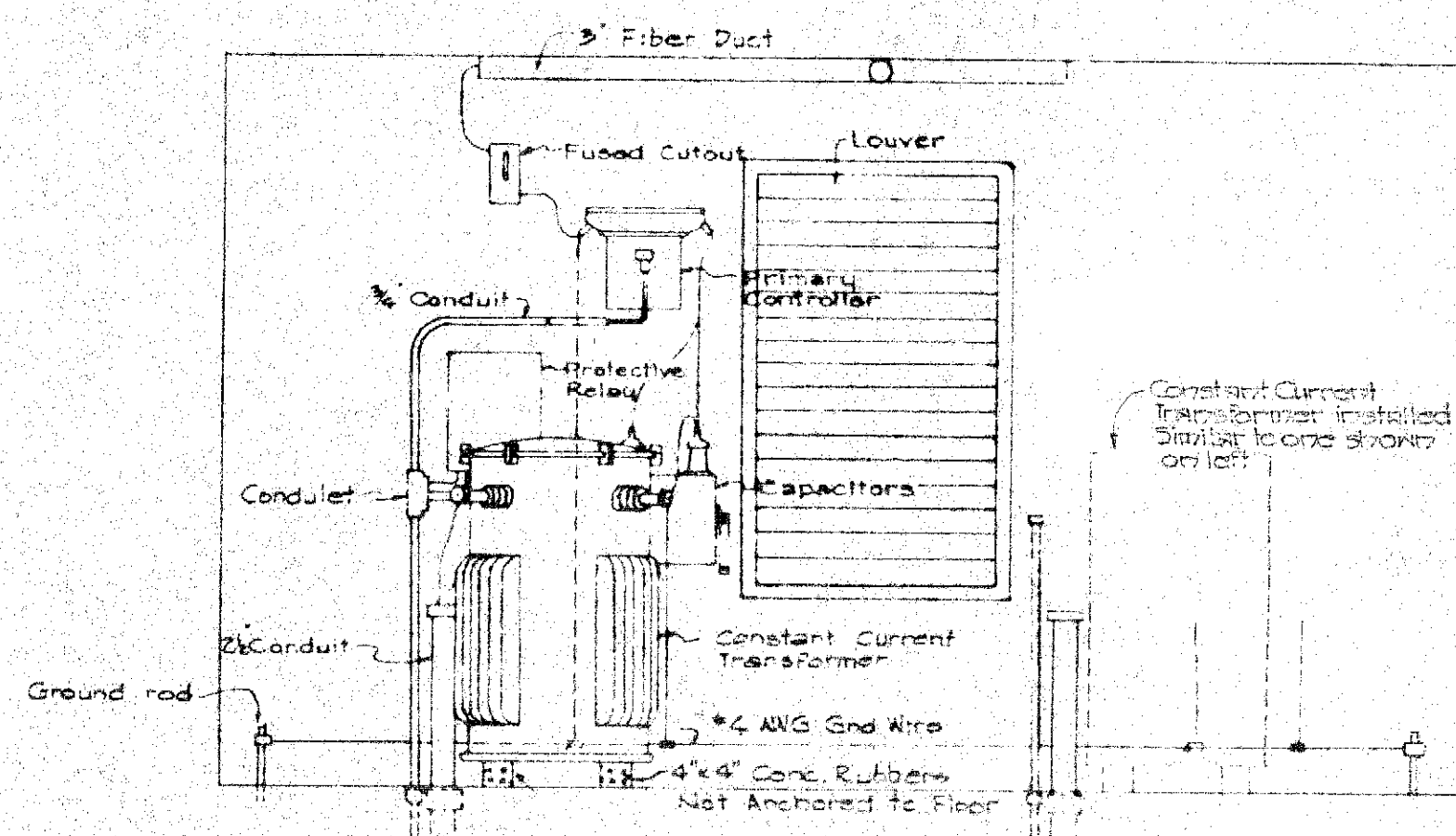
PLOT PLAN
Scale: 1" = 10'

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
HIGHWAY LIGHTING SYSTEM
SUB-STATION DETAILS
LUNALILO FREEMAN
PELE ST. TO KEEAUMOKU ST.
PROJECT N9DU-072-1(4)
Circle: As Noted

SHEET NO 5 OF 7 SHEETS

5927.

NOTE
All taps from 2400 volt bus to equipment to be #8 AWG, 6000-7000 volt wire

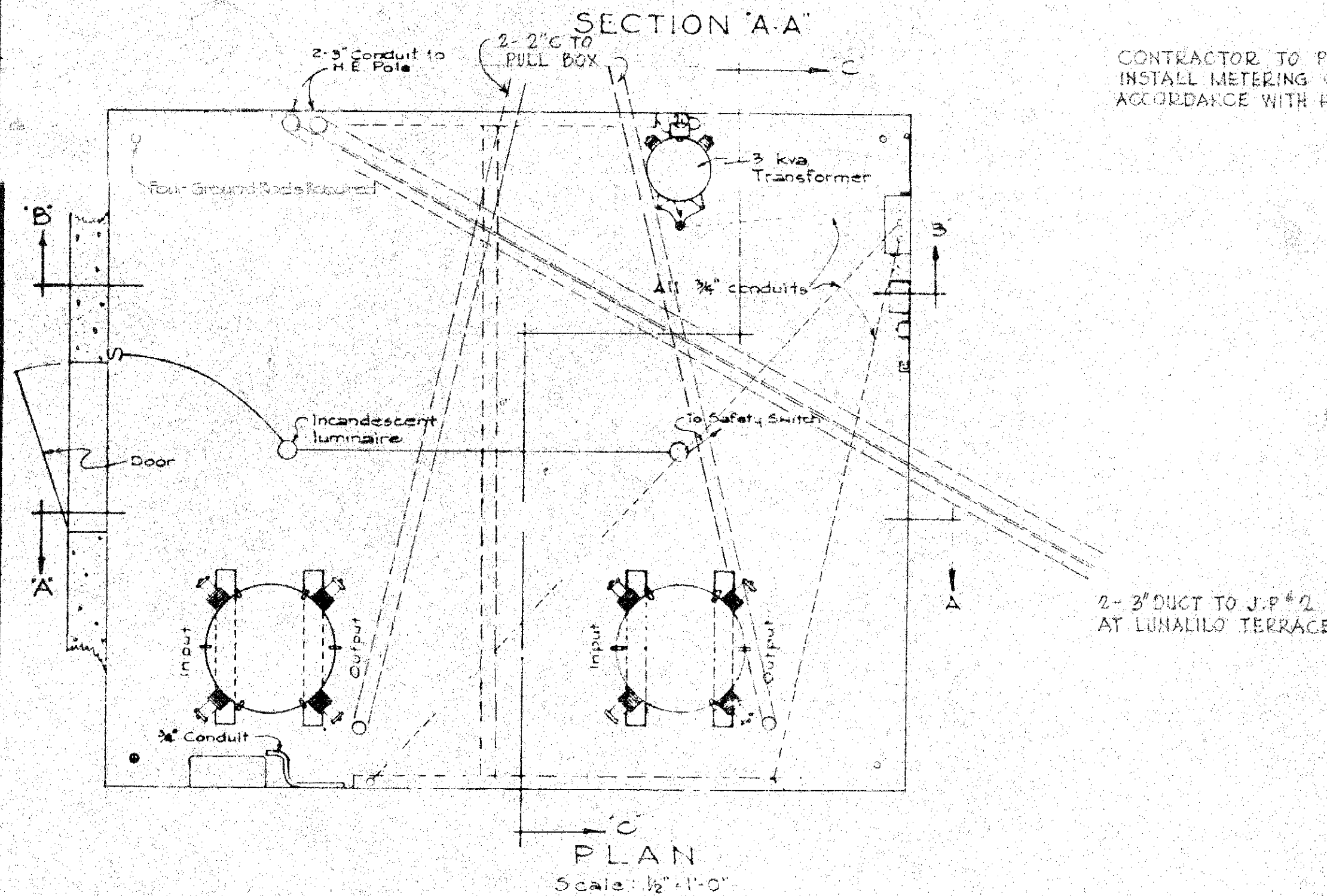


CONTRACTOR TO PROVIDE AND INSTALL METERING CAN IN ACCORDANCE WITH HECO DWG U-41102

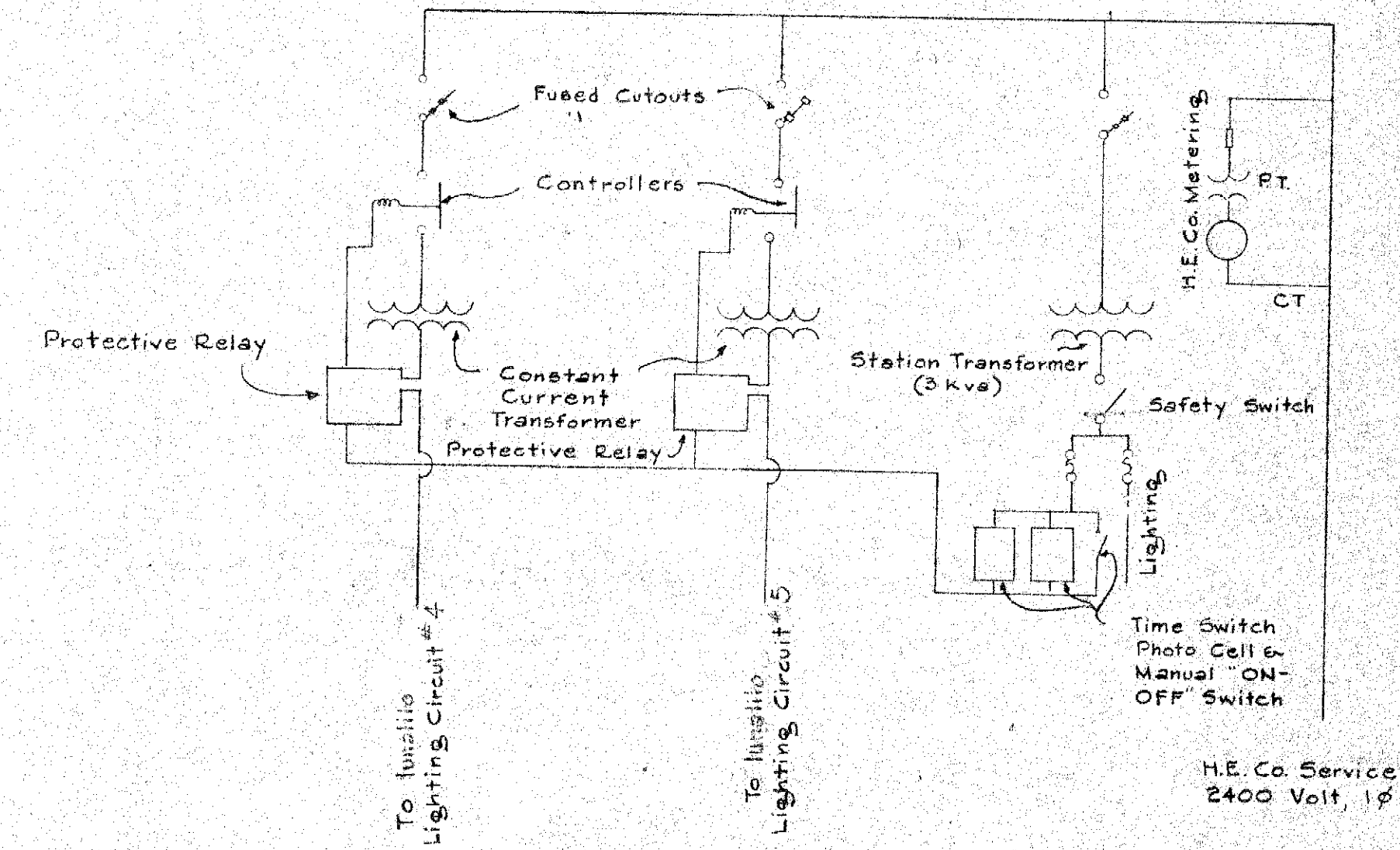
SECTION 'A-A'

SECTION 'B-B'

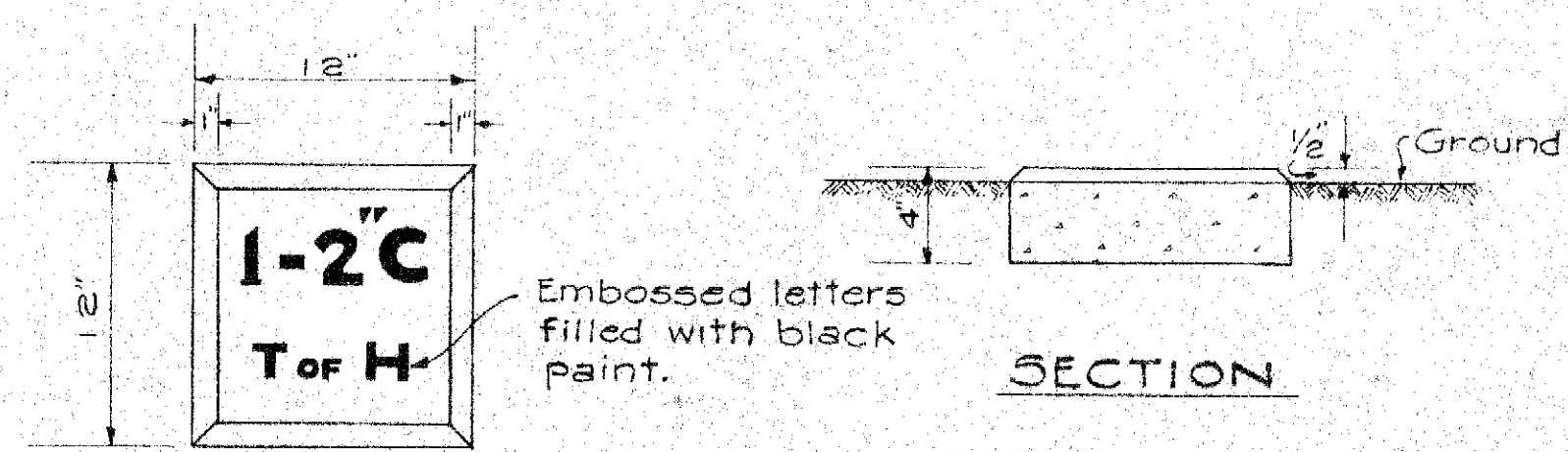
SECTION 'C-C'



PLAN
Scale: 1/2"=1'-0"



WIRING DIAGRAM
Not to Scale



PLAN

SECTION

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

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
HIGHWAY LIGHTING SYSTEM
SUB-STATION DETAILS
LUNALILO FREEWAY
PELE ST. TO KEEAUMOKU ST
PROJECT NO. BU-0781(4)
Scale: As Noted

SHEET NO. 6 OF 7 SHEETS

5927