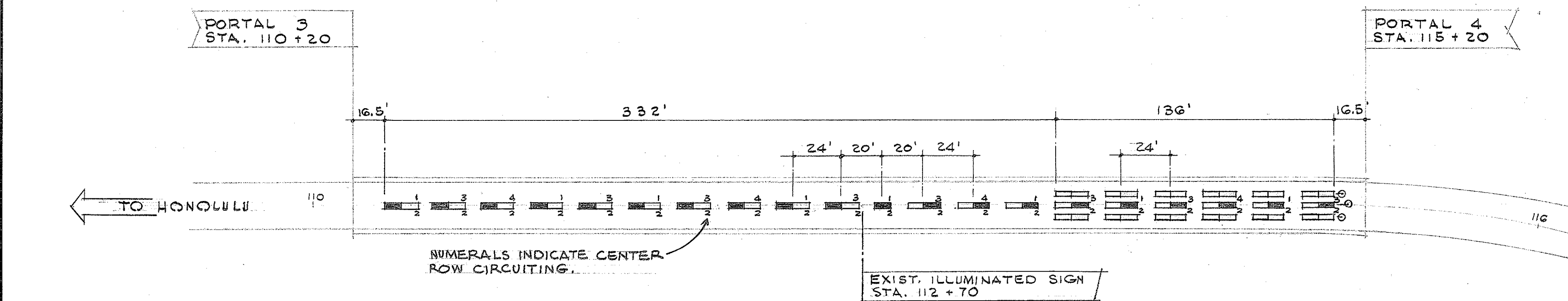


TUNNEL #1
 1000 - TOTAL LENGTH PORTAL TO PORTAL IN STATION FEET
 1002 - TOTAL LENGTH PORTAL TO PORTAL IN LINEAR FEET

ELECTRICAL LEGEND & NOTES

- 3 LAMP LUMINAIRE WITH CENTER LAMP ON CONTINUOUS SCHEDULE AND TWO OUTER LAMPS ON DAY SCHEDULE.
 - 3 LAMP LUMINAIRE WITH ALL LAMPS ON DAY SCHEDULE.
 - EXISTING 8"x8"x6" SPLIT COVER JUNCTION BOX
- EXISTING ILLUMINATED SIGNS TO BE RECONNECTED TO CIRCUIT #2 IN NEAREST JUNCTION BOX.

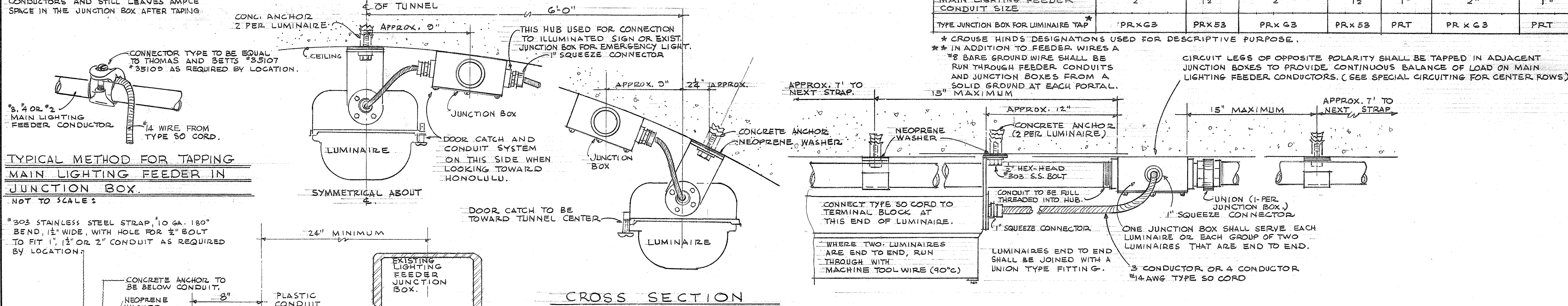


TUNNEL #2
 500 - TOTAL LENGTH PORTAL TO PORTAL IN STATION FEET
 501 - TOTAL LENGTH PORTAL TO PORTAL IN LINEAR FEET

NOTES
 CONTRACTOR MAY USE ANY TYPE OF BOLTED FITTING THAT DOES NOT REQUIRE CUTTING OF THE MAIN FEEDER. CONDUCTORS AND STILL LEAVES AMPLE SPACE IN THE JUNCTION BOX AFTER TAPPING.

EXISTING TUNNELS - NEW LIGHTING PLAN

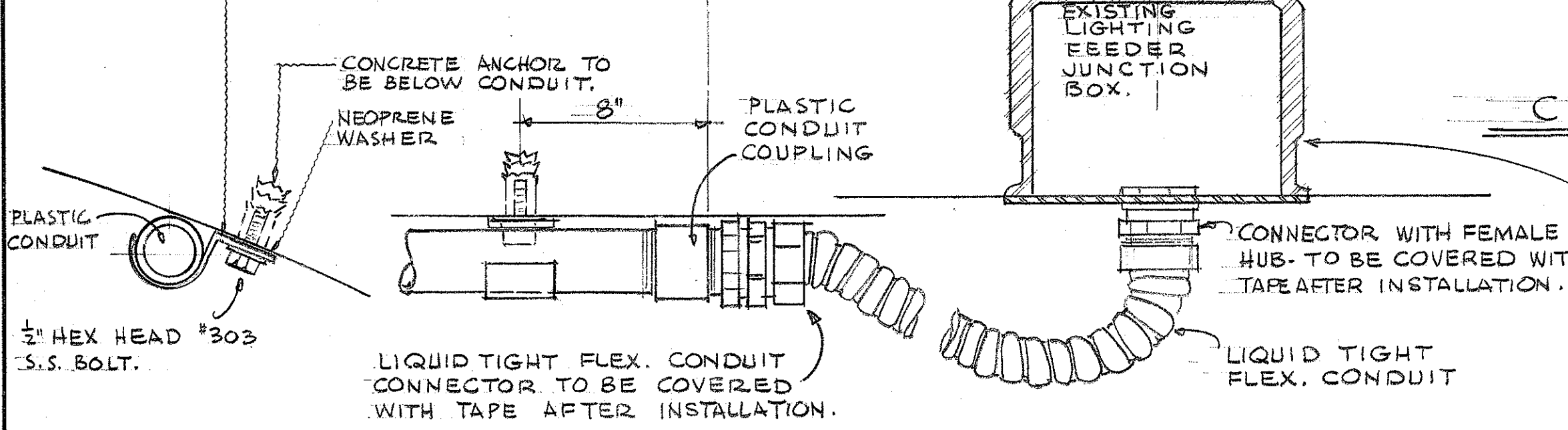
SCALE: 1" = 40'



TYPICAL METHOD FOR TAPPING MAIN LIGHTING FEEDER IN JUNCTION BOX.

NOT TO SCALE:

#303 STAINLESS STEEL STRAP, 10 GA. 180° BEND, 1 1/2" WIDE, WITH HOLE FOR 1/2" BOLT TO FIT 1", 1 1/2" OR 2" CONDUIT AS REQUIRED BY LOCATION.



CONDUIT MOUNTING DET.

SCALE: 3" = 1'-0"

CONNECTION TO CONDUIT SYSTEM AT PORTALS

SCALE: 3" = 1'-0"

WIRE SIZE & LAMP HOOK-UP SCHEDULE (BASED ON 26'-800 MA. LAMPS)																														
ROWS		PORTAL 1					PORTAL 2								PORTAL 4															
		CENTER					NORTH				CENTER				SOUTH				NORTH				CENTER				SOUTH			
CIRCUIT NUMBER IN EXISTING PANELBOARDS		N	1	3	2	10	N	5	7	N	1	3	2	4	N	6	8	N	5	7	N	1	3	2	4	N	6	8		
MAIN LIGHTING FEEDER WIRE SIZE		#2	#2	#2	#4	#4	#4	#4	#4	#2	#2	#2	#4	#4	#4	#4	#4	#8	#8	#8	#2	#2	#2	#4	#4	#8	#8	#8		
CONTINUOUS SCHEDULE LAMPS						12	12							17											20					
DAY SCHEDULE LAMPS			30	33					30	30		30	32				30	30		18	18				37	40		18	18	
DAY SCHEDULE LAMPS														14											20					
MAIN LIGHTING FEEDER CONDUIT SIZE		2"					1½"				2"				1½"				1"				2"				1"			
TYPE JUNCTION BOX FOR LUMINAIRE TAP		PRXG3					PRX53				PRXG3				PRX53				PRT				PRXG3				PRT			

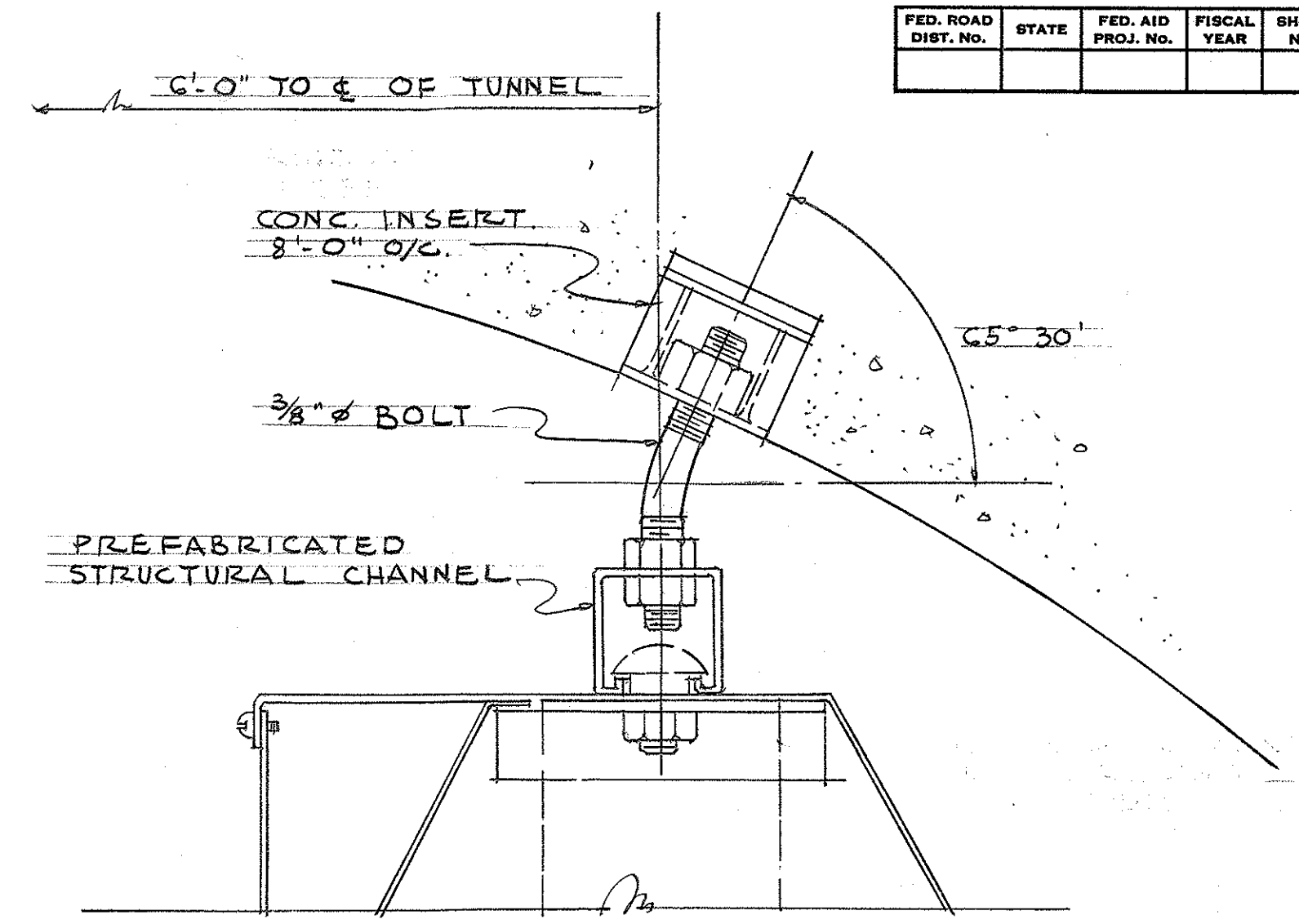
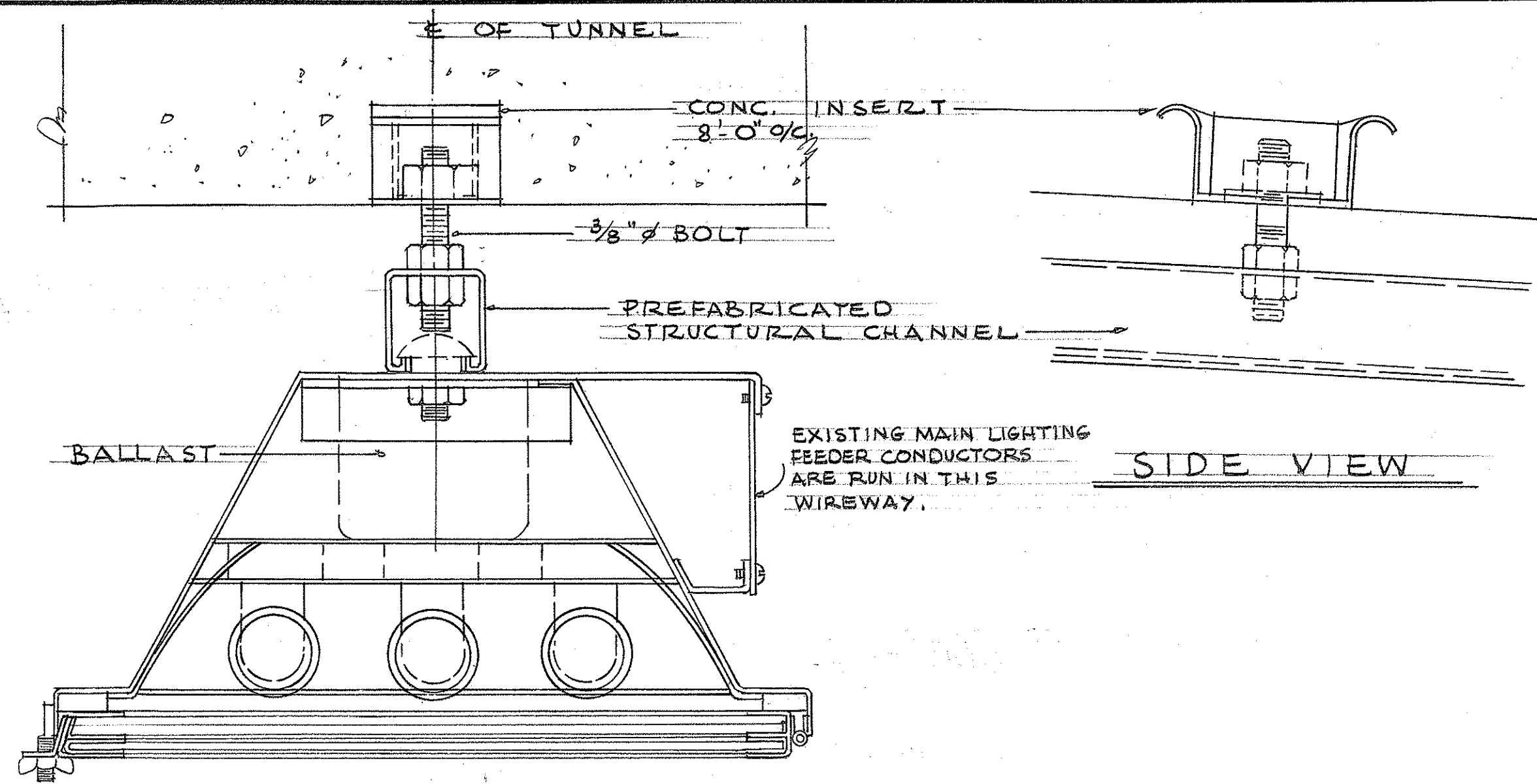
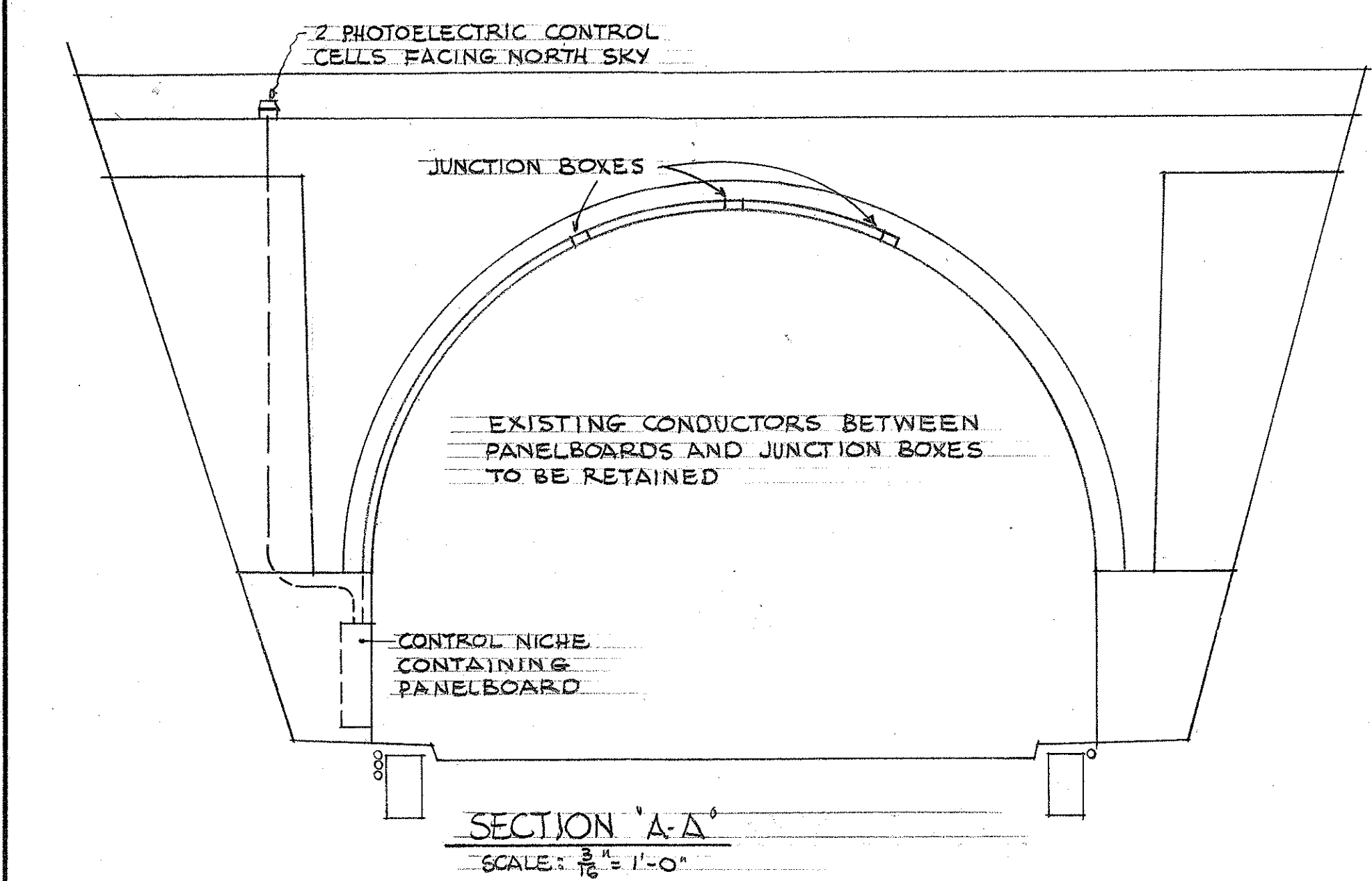
* CROUSE HINDS DESIGNATIONS USED FOR DESCRIPTIVE PURPOSE.
 ** IN ADDITION TO FEEDER WIRES A #8 BARE GROUND WIRE SHALL BE RUN THROUGH FEEDER CONDUITS AND JUNCTION BOXES FROM A SOLID GROUND AT EACH PORTAL. 15" MAXIMUM

CIRCUIT LEGS OF OPPOSITE POLARITY SHALL BE TAPPED IN ADJACENT JUNCTION BOXES TO PROVIDE CONTINUOUS BALANCE OF LOAD ON MAIN LIGHTING FEEDER CONDUCTORS. (SEE SPECIAL CIRCUITING FOR CENTER ROWS)

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
TUNNEL
LIGHT IMPROVEMENT PLAN
PALI INBOUND TUNNELS

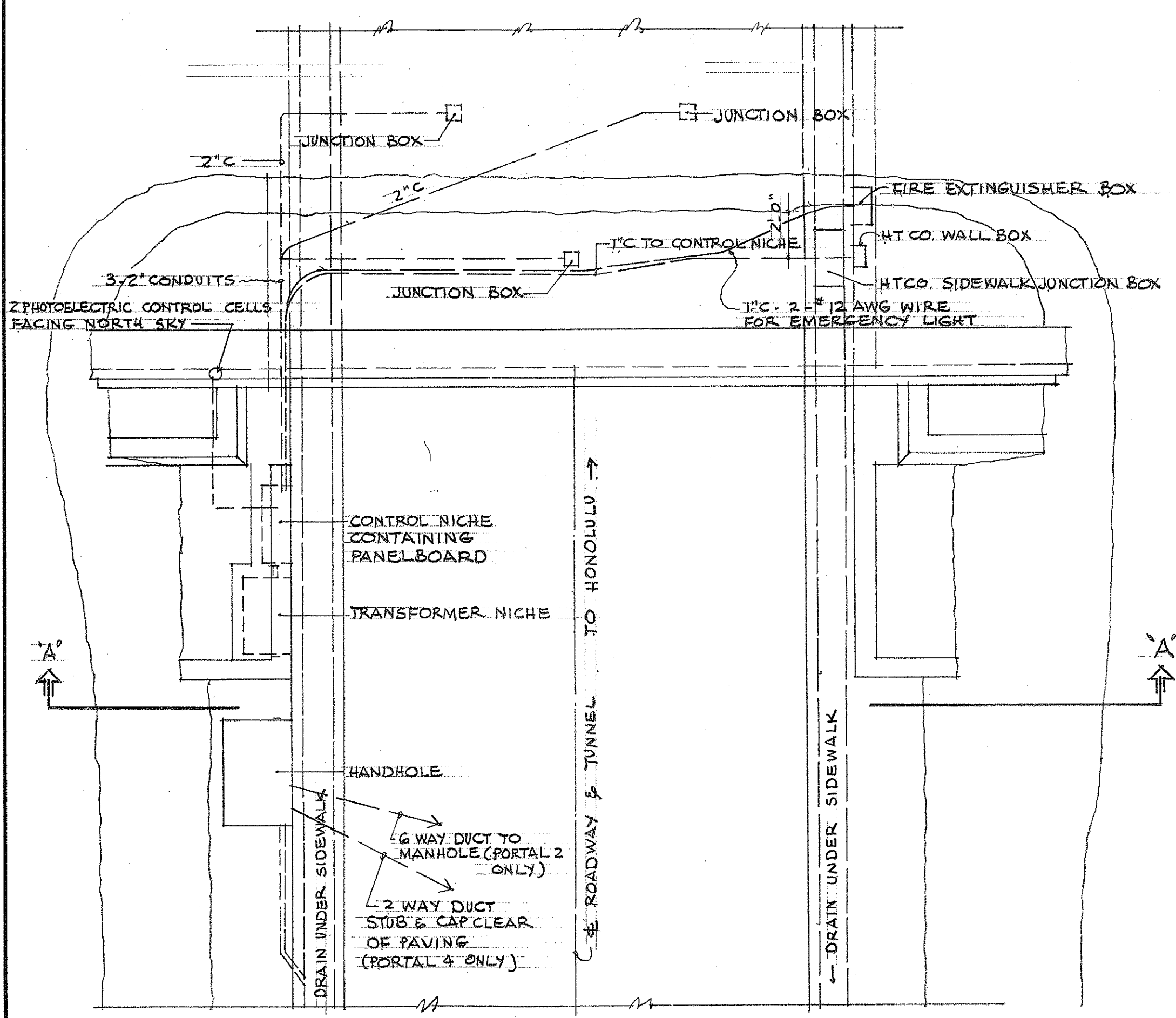
Scale ~ as noted
Jan. 1959

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



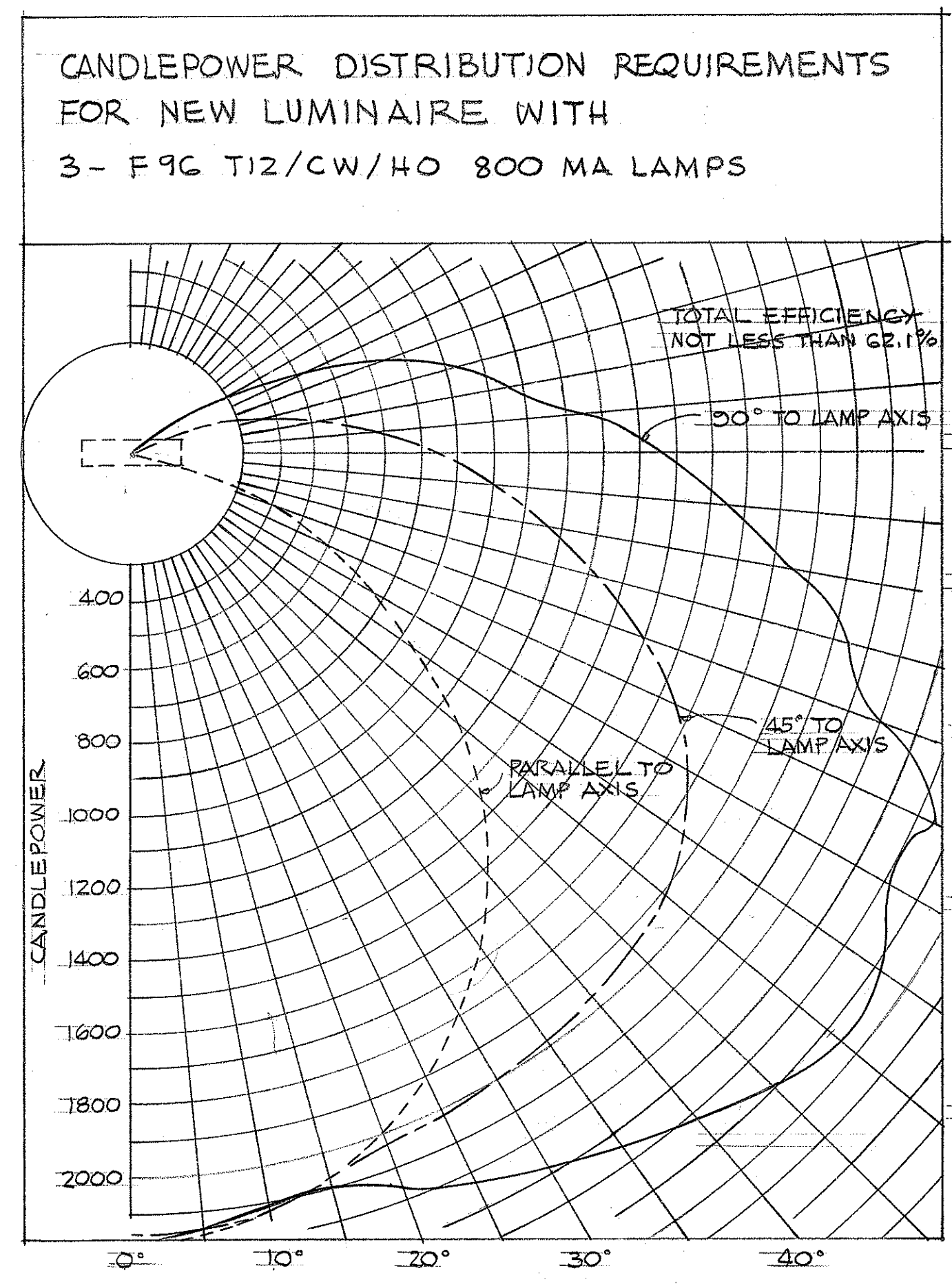
EXISTING LUMINAIRE SUPPORT AND WIRING ARRANGEMENT

LUMINAIRES ARE 3' LONG MOUNTED IN CONTINUOUS ROWS IN THE SAME LOCATION TO BE OCCUPIED BY THE NEW LUMINAIRES.



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

TYPICAL PORTAL SHOWING LOCATION OF EXISTING LIGHTING FEEDER JUNCTION BOXES AND PANELBOARDS



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

TUNNEL
LIGHTING IMPROVEMENT PLAN
PALI INBOUND TUNNELS

Scale - as noted Jan. 1959

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