

STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF AVIATION

CONSTRUCTION PLANS FOR

ILIAMNA AIRPORT

NORTH/SOUTH RUNWAY RECONSTRUCTION

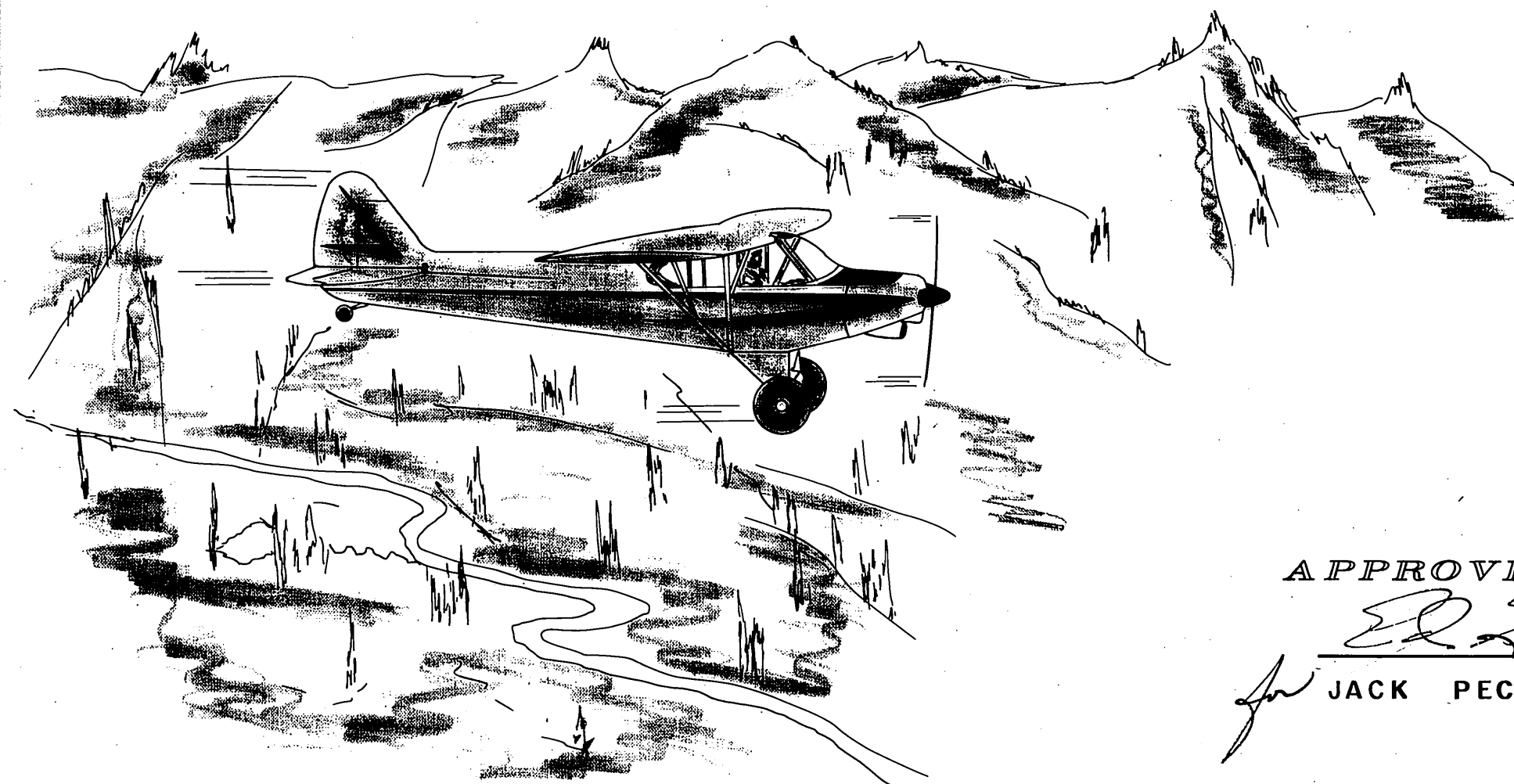
AIRPORT DEVELOPMENT AID PROGRAM

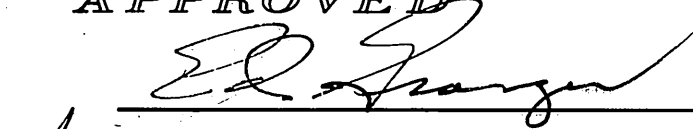
SPONSORED BY
THE STATE OF ALASKA

ADAR NO. - 8-02-0132-01

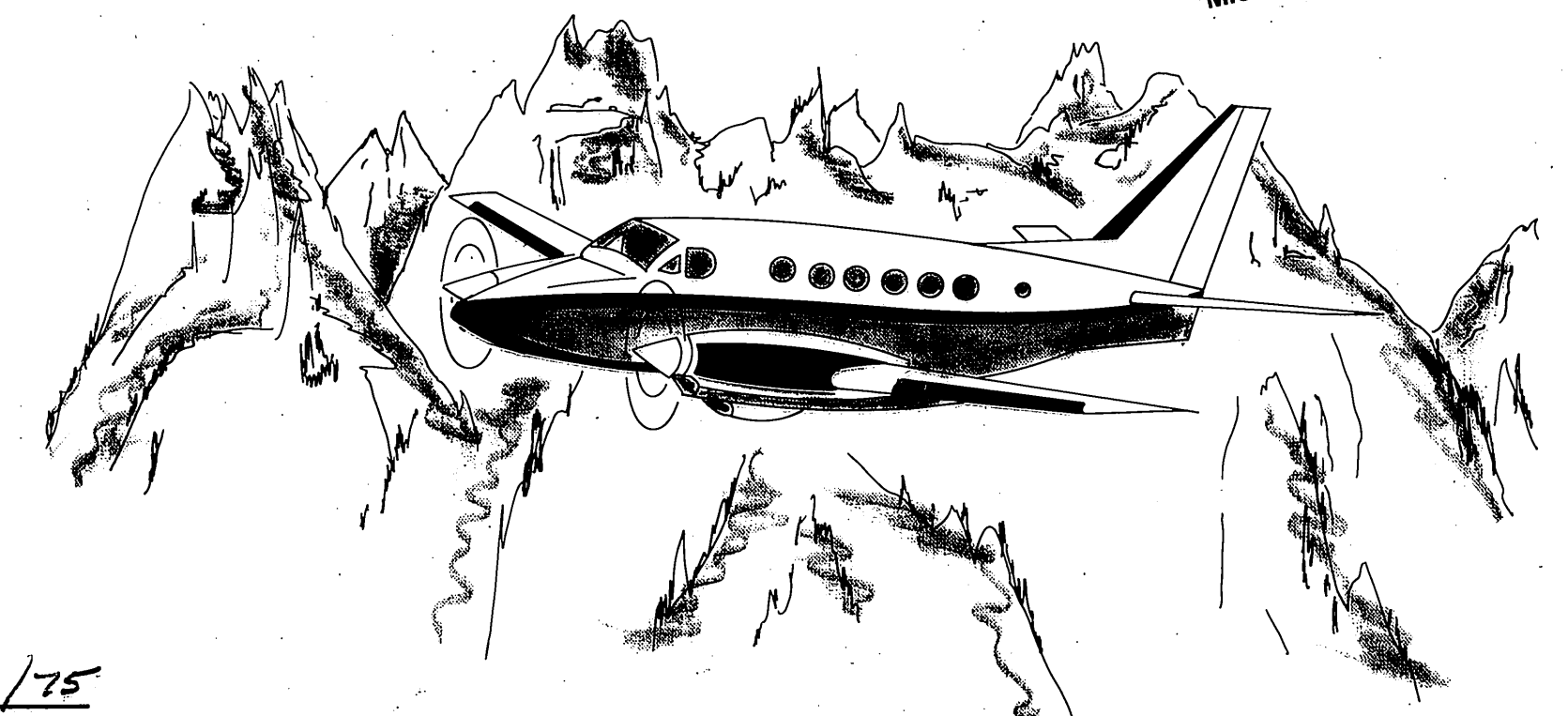
MICROFILMED
AS-BUILTS

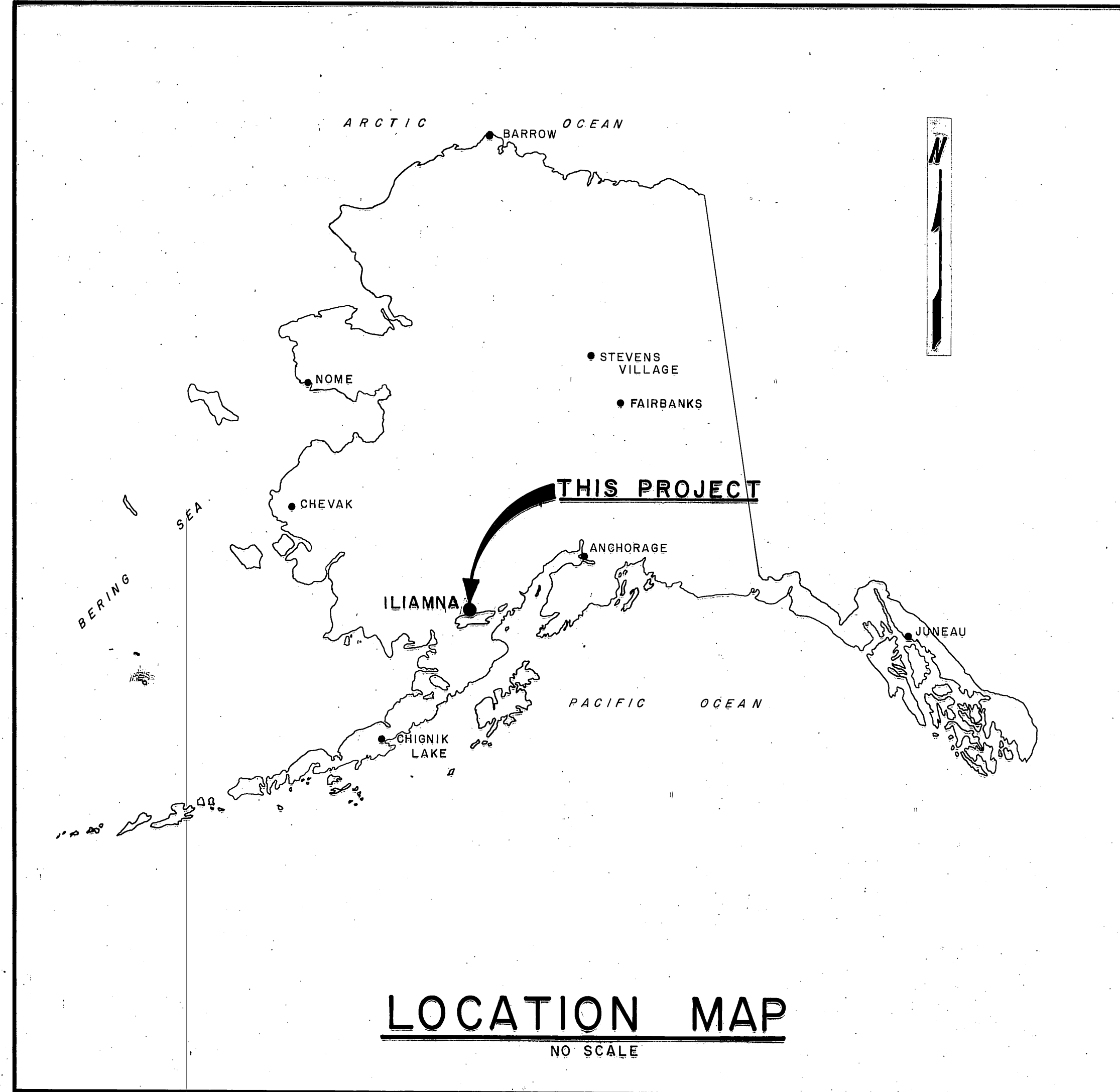
APPROVED:  DATE 1/9/76
J. K. ADDISON, P.E. CHIEF CONSTRUCTION ENGINEER



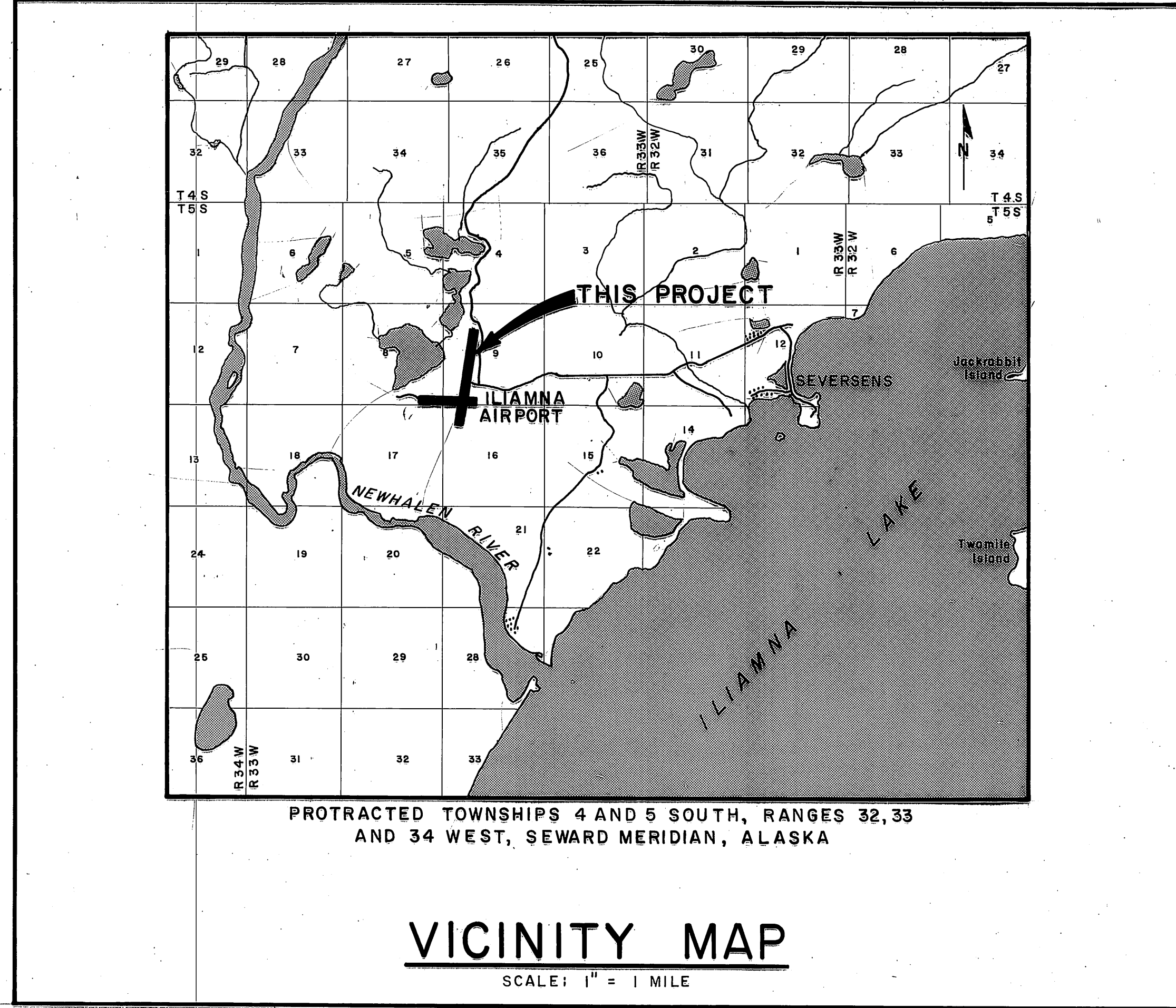
APPROVED 
for JACK PECK DATE 5/28/75
DIRECTOR

APPROVED 
CLAYTON C. HUENERS, P.E. DATE 5/28/75
CHIEF ENGINEER





LOCATION MAP
NO SCALE



VICINITY MAP
SCALE: 1" = 1 MILE

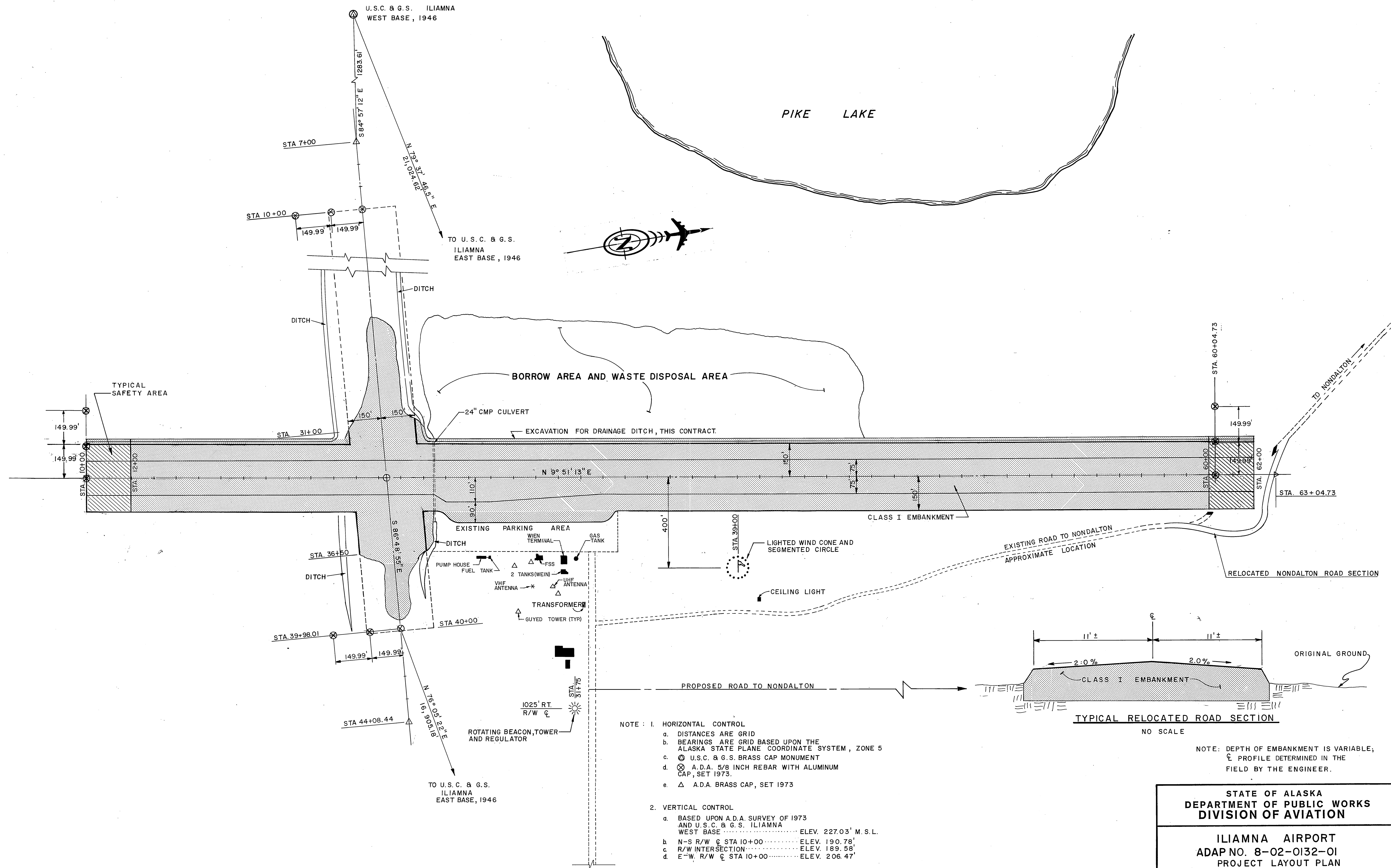
FINAL QUANTITIES

NO.	ITEM	QUANTITY	UNIT
1.	MOBILIZATION & DEMOBILIZATION		L.S.
2.	CLASS I EMBANKMENT	97,082	CU. YDS.
3a.	24" CORRUGATED METAL PIPE CULVERT	350	LIN. FT.
3b.	11/2" DIAMETER CULVERT THAW PIPE	352	LIN. FT.
4a.	NEW MARKER LIGHTS	68	EACH
4b.	MARKER LIGHT RELOCATION/REMOVAL	86	EACH
4c.	L-824 5KV TYPE "C" CABLE	12,532	LIN. FT.
4d.	UNDERGROUND CABLE #8 AWG, COPPER 600V TYPE "C", L-824	5,848	LIN. FT.
4e.	UNDERGROUND CABLE #2 AWG, COPPER 600V TYPE "C", L-824	1,556	LIN. FT.
4f.	UNDERGROUND CABLE #6 AWG, COPPER 600V TYPE "C", L-824	4,376	LIN. FT.
4g.	#6 BARE GROUND	10,440	LIN. FT.
4h.	12 PAIR #19 CONTROL CABLE	1,006	LIN. FT.
4i.	2" RIGID STEEL CONDUIT	780	LIN. FT.
4j.	2" PVC CONDUIT	2,487	LIN. FT.
4k.	1" PVC CONDUIT	9,390	LIN. FT.
4l.	BEACON RELOCATION		L.S.
4m.	REMOTE CONTROL RELAY ASSEMBLY, L-841	1	EACH
4n.	AIRPORT LIGHTING CONTROL PANEL, L-821	1	EACH
4o.	NEW 7-1/2 KW REGULATOR, L-812	1	EACH
4p.	REGULATOR HOUSING/EQUIPMENT INSTALLATION		L.S.
4q.	NEW 8-FOOT LIGHTED WIND CONE	1	EACH
4r.	L-857 HANDHOLE	10	EACH
2b.	STRIPPING	5,781	S.Y.

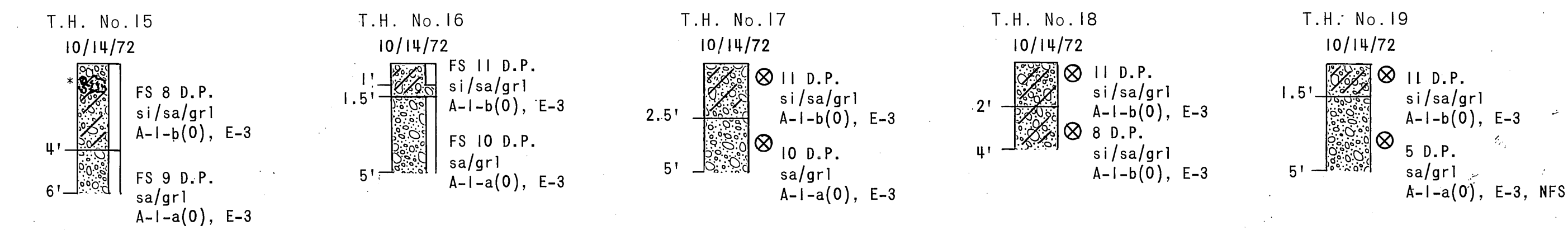
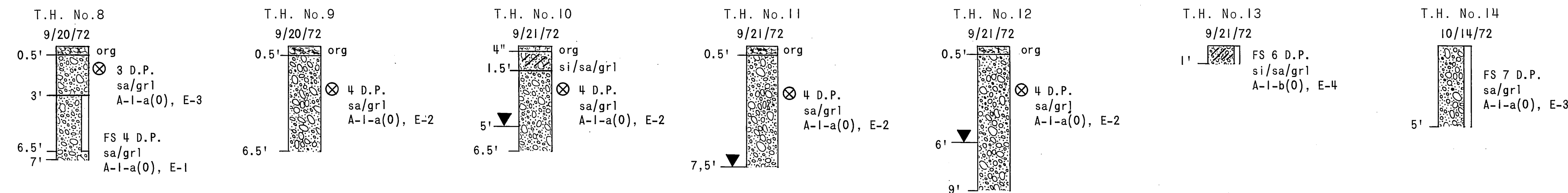
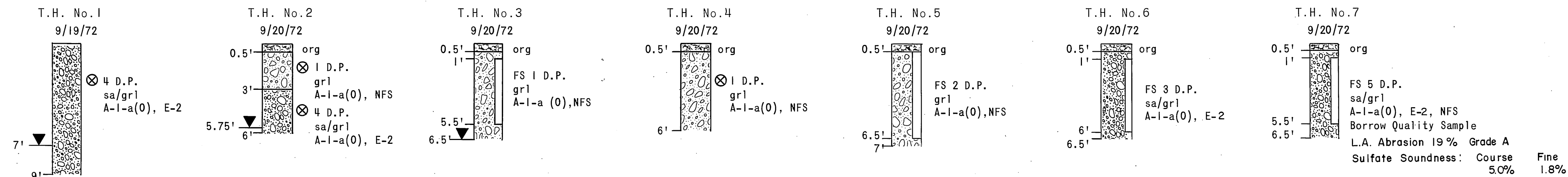
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STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF AVIATION			
ILIAMNA AIRPORT ADAP NO. 8-02-0132-01 LOCATION, VICINITY MAPS, INDEX & FINAL QUANTITIES			
APPROVED	JAMES J. RHODE, PE CHIEF DESIGN ENGINEER		
APPROVED	TOMMY GENE HEINRICH, PE TRUNK AIRPORTS ENGINEER		
BY	DATE	CHANGE	REVISIONS
AS SHOWN	CHECKED	DATE	SHEET 2 OF 26



			APPROVED <i>James J. Rhode</i> JAMES J. RHODE, P.E. CHIEF DESIGN ENGINEER		
			APPROVED <i>Daniel D. Vilovich</i> for TOMMY GENE HEINRICH, P.E. TRUNK AIRPORTS ENGINEER		
<i>DR</i>	1/19/76	AS-BUILT	SCALE 1" = 200'		
<i>GR</i>	8-22/75	MOVE RUNWAY 200' NORTH AND RELOCATE NONDALTON ROAD			
BY	DATE	CHANGE			
REVISIONS			DESIGNED P. J. DATE 5/27/75		
			CHECKED K.L.B. DATE 5/27/75		
			SHEET 3 OF 26		



*Traces of organics (roots),
.5'-1.5'.

BORING LOG LEGEND

9/19/72 Date of Soil Boring

FS 2 Field Sample

Strata Change

⊗ 3 Similar to
Field Sample # 3

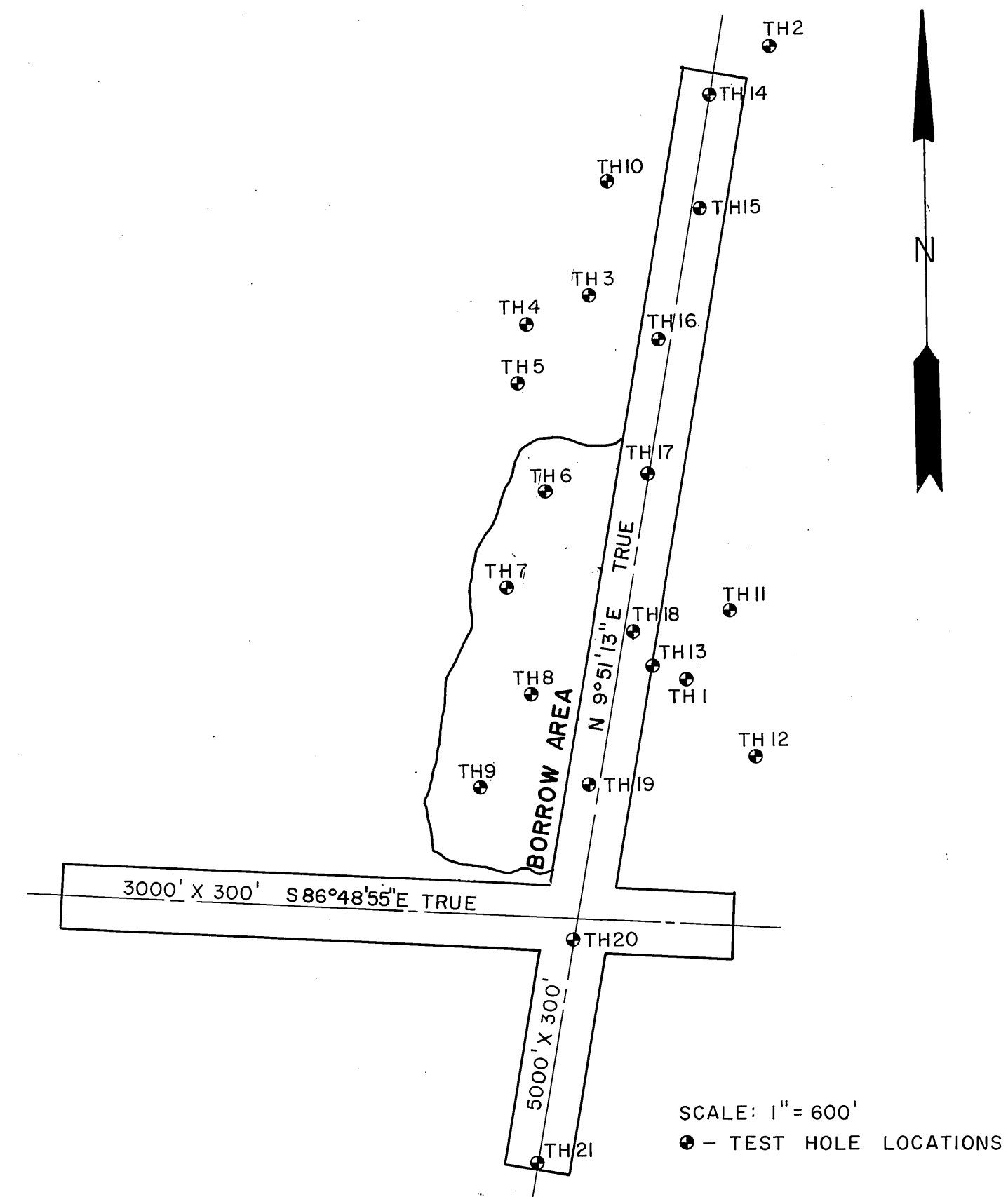
Depth in Feet

Water Table

org (Organics)
grl (Gravel)
sa/grl (Sandy Gravel)
si/sa/grl (Silty, Sandy Gravel)

NOTE:

THE BORING LOGS SHOWN ON THIS PAGE ARE FOR INFORMATION PURPOSES ONLY. THE STATE BEARS NO RESPONSIBILITY FOR ANY AND/OR ALL OF THE CONTRACTOR'S INTERPRETATIONS OF THESE LOGS.



TEST HOLE	FIELD SAMPLE	DEPTH IN FT.	% MECHANICAL ANALYSIS - % PASSING										UNIFIED	ASSHO CLASS	FAA	FROST FSV
			3"	2"	1"	3/4"	1/2"	# 4	#10	#40	#200					
BORROW INVESTIGATION																
3	1	1-5.5'	100	96	83	58	6	1.3	1.0	0.8		grl	A-1-a(0)	E-2	NFS	
5	2	.5-6.5'	100	95	86	62	7	2	1.1	0.8		grl	A-1-a(0)	E-2	NFS	
6	3	1-6.0'	100	97	88	81	40	19	7	5		sa/grl	A-1-a(0)	E-2		
8	4	3-6.5'	100	98	94	89	70	47	12	10		sa/grl	A-1-a(0)	E-1		
7	5	1-5.5'	100	99	91	76	25	6	2	1		sa/grl	A-1-a(0)	E-2	NFS	
RUNWAY INVESTIGATION																
13	6	0-1'	98	97	89	84	78	69	61	48	25	si/sa/grl	A-1-b	E-4		
14	7	0-5'	100	91	71	49	33	27	21	12		sa/grl	A-1-a(0)	E-3		
15	8	0-4'	100	97	89	73	40	33	28	17		si/sa/grl	A-1-b	E-3		
15	9	4-6'	100	96	85	42	13	11	10	6		sa/grl	A-1-a(0)	E-3		
16	11	15.5'	100	99	99	89	20	17	13	8		sa/grl	A-1-a(0)	E-3		
16	10	0-1'	100	90	84	76	56	44	32	20		si/sa/grl	A-1-b	E-3		
20	12	0-5'	100	98	91	77	54	46	16	7		sa/grl	A-1-a(0)	E-2		

STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF AVIATION

ILIAMNA AIRPORT
ADAP NO. 8-02-0132-01
TEST HOLE LOGS

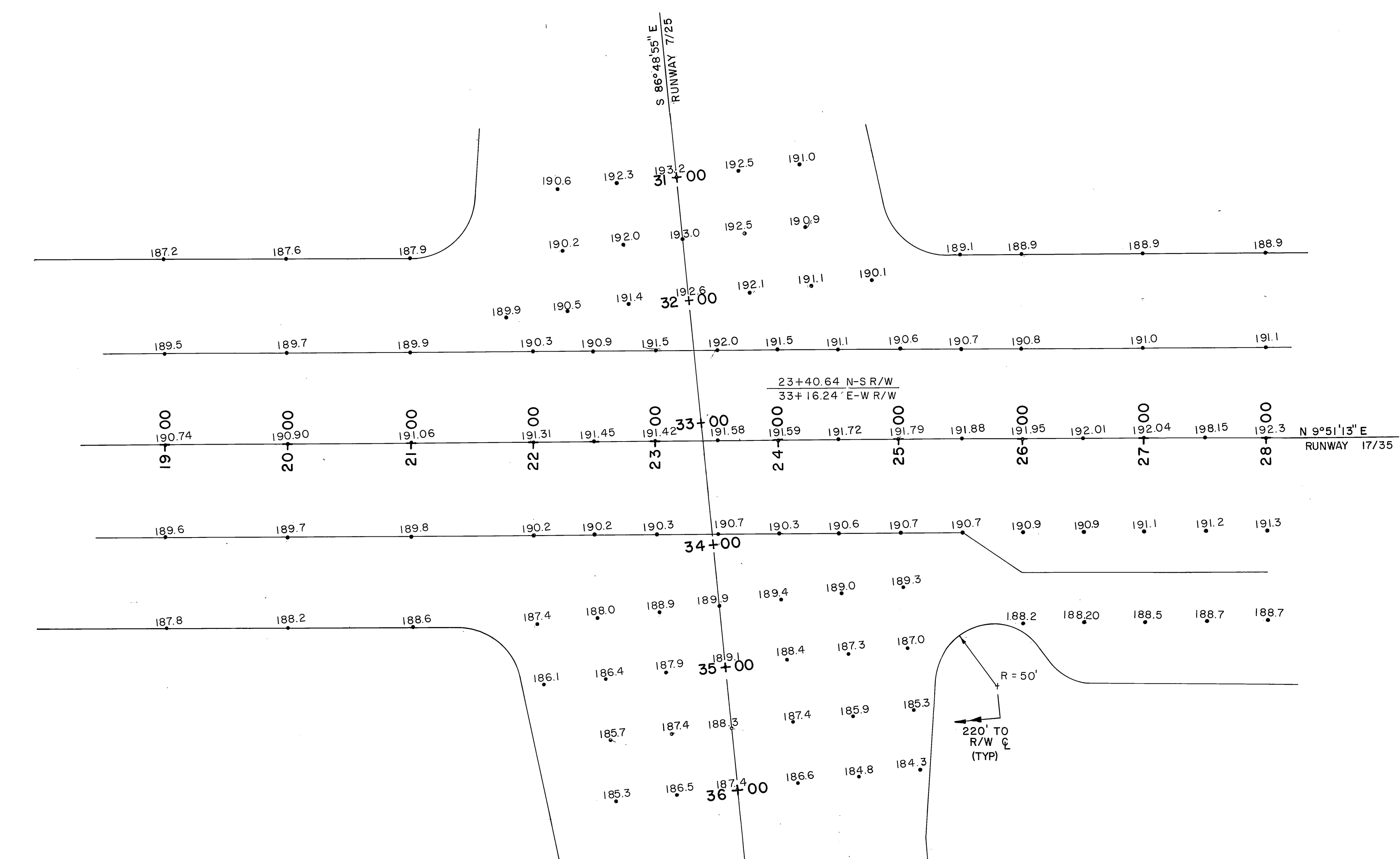
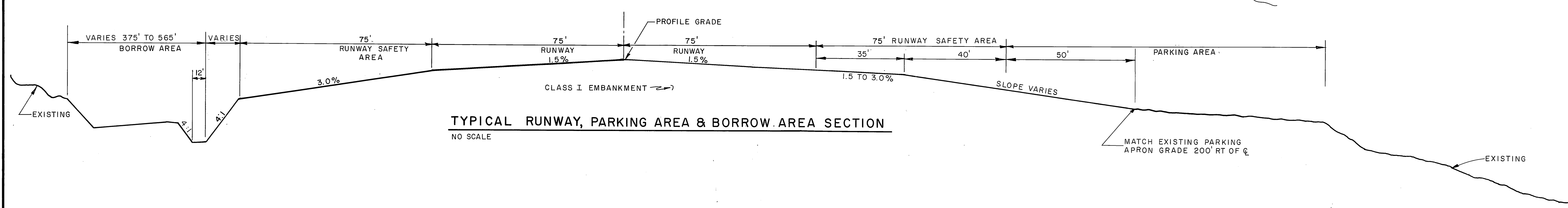
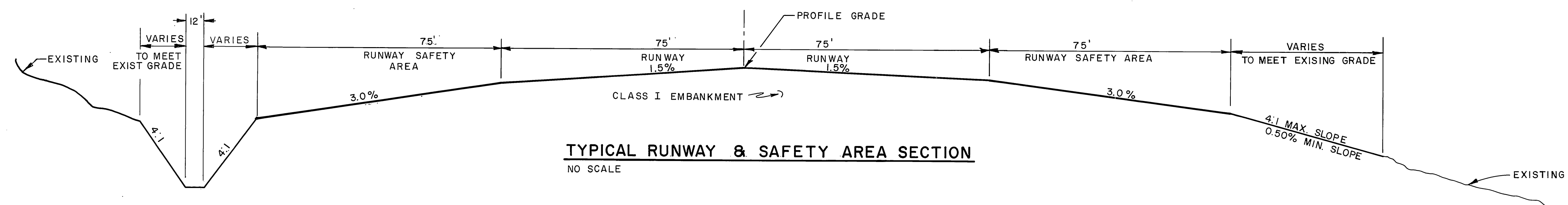
APPROVED *[Signature]*
JAMES J. RHODE, JR. CHIEF DESIGN ENGINEER

APPROVED *[Signature]*
TOMMY GENE HEINRICH, P.E. TRUNK AIRPORTS ENGINEER

SCALE AS SHOWN
DESIGNED P.J.
DRAWN L.S.
CHECKED SP
DATE 5/27/75

REVISIONS

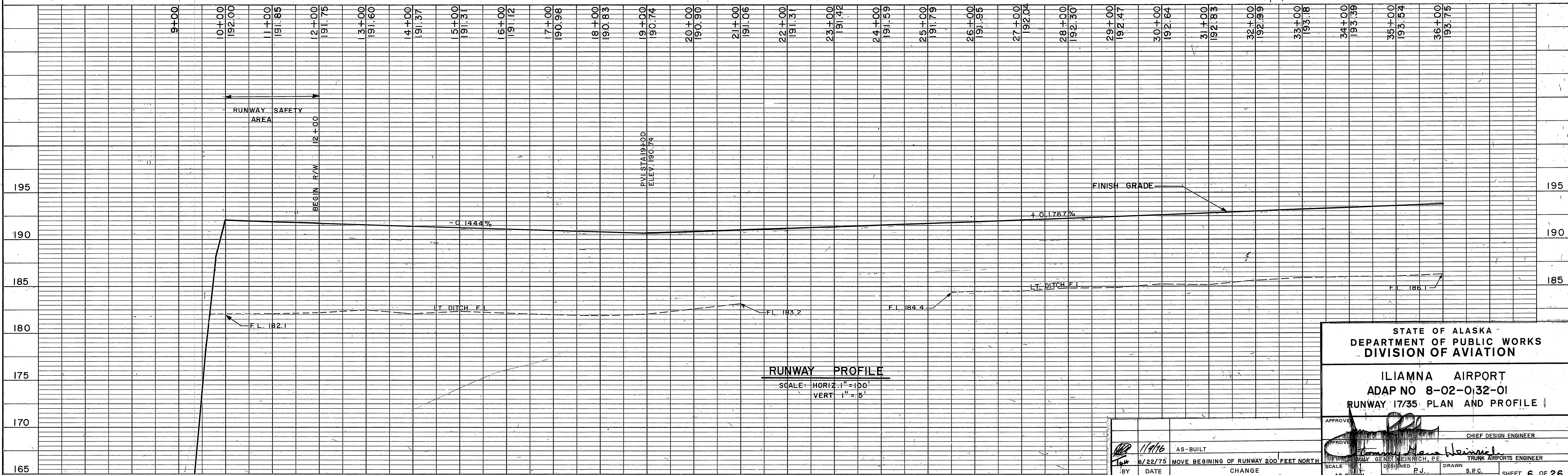
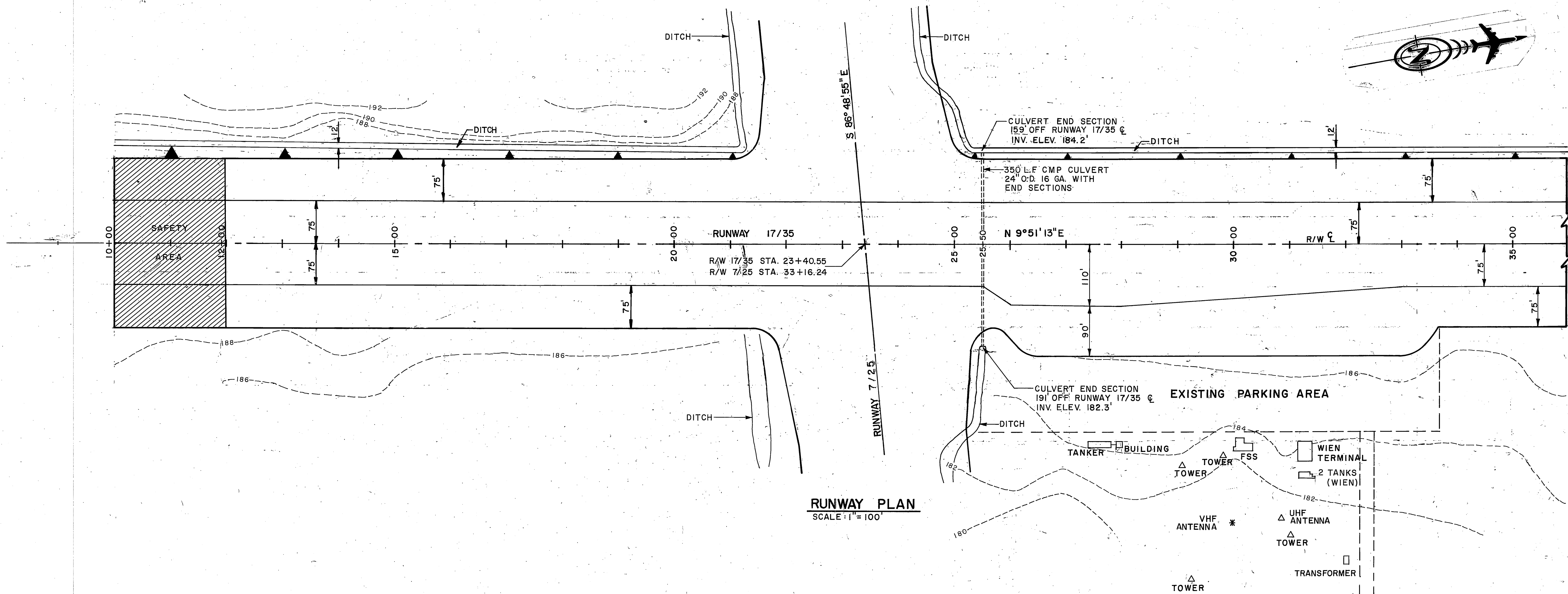
SHEET 4 OF 26



STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF AVIATION			
ILIAMNA AIRPORT ADAP NO. 8-02-0132-01 INTERSECTION & RUNWAY 17/35 TYPICAL SECTIONS			
APPROVED	JAMES J. RHODES, P.E. CHIEF DESIGN ENGINEER		
APPROVED	TOMMY GENE HEINRICH, P.E. TRUNK AIRPORTS ENGINEER		
BY	DATE	CHANGE	REVISIONS
AS BUILT	1/9/76		
AS SHOWN	CHECKED	DATE	SHEET
	KLB	5/27/75	5 OF 26

PLAN	SURVEYED	BY	DATE
	NOTE BOOK	ALIGNMENT CHECKED	
	No.	RT. OF WAY CHECKED	

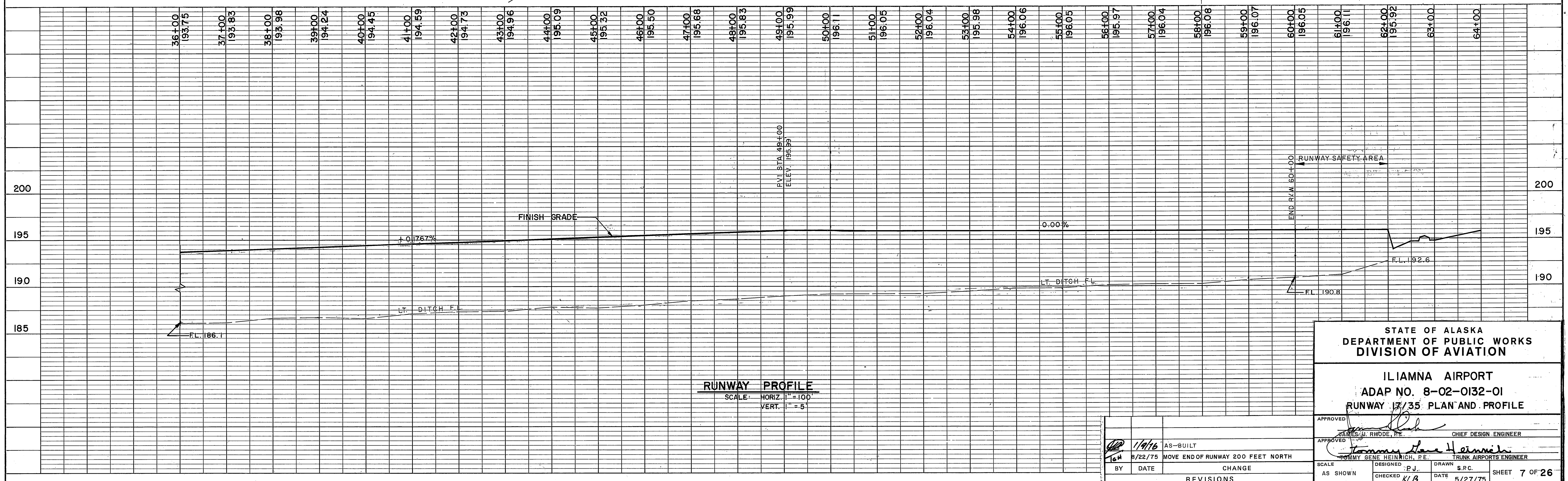
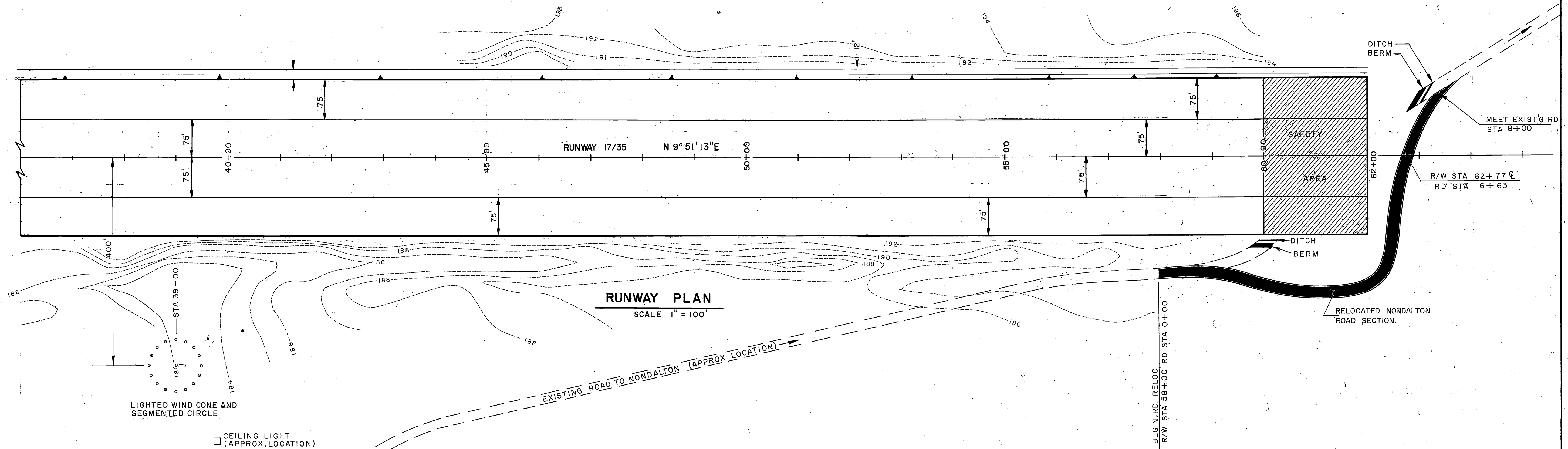
PROFILE	SURVEYED	BY	DATE
	NOTE BOOK	GRADES CHECKED	
	No.	STRUCTURE NOTATIONS CHECKED	



STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF AVIATION			
ILIAMNA AIRPORT ADAP NO 8-02-032-01 RUNWAY 17/35 PLAN AND PROFILE			
APPROVED	DESIGNED	DRAWN	S.P.C.
BY	DATE	DATE	DATE
11/1/75	8/22/75	5/27/75	5/27/75
AS-BUILT	MOVE BEGINNING OF RUNWAY 200 FEET NORTH	CHANGE	REVISIONS
AS-BUILT NOV '75 6 OF 12			

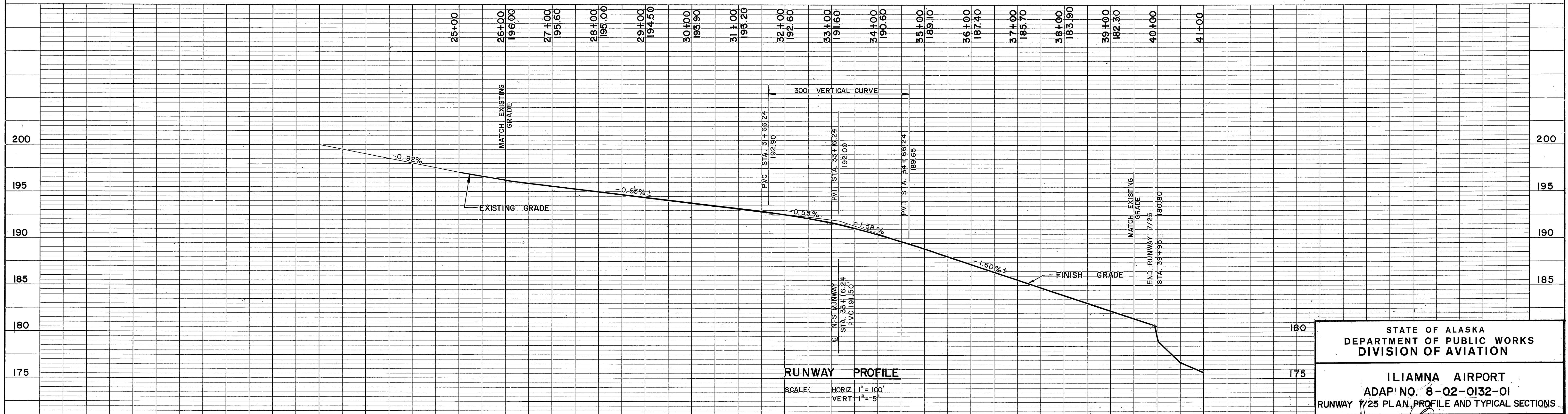
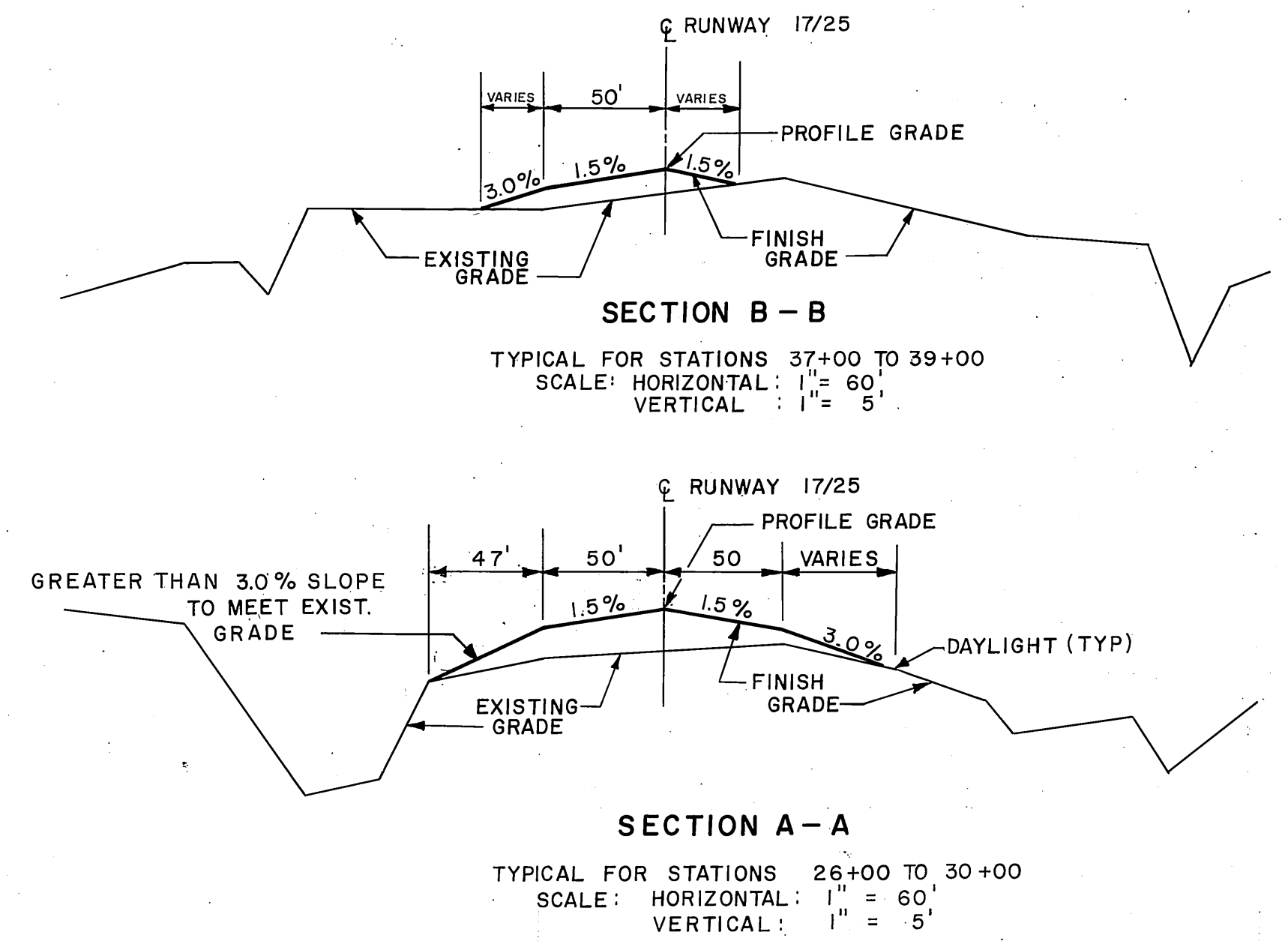
PLAN	
NO.	DATE
SURVEYED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
NOTE BOOK	

PROFILE	
NO.	DATE
SURVEYED	
GRADES CHECKED	
S. M. V. NOTED	
STRUCTURE NOTATIONS CHECKED	

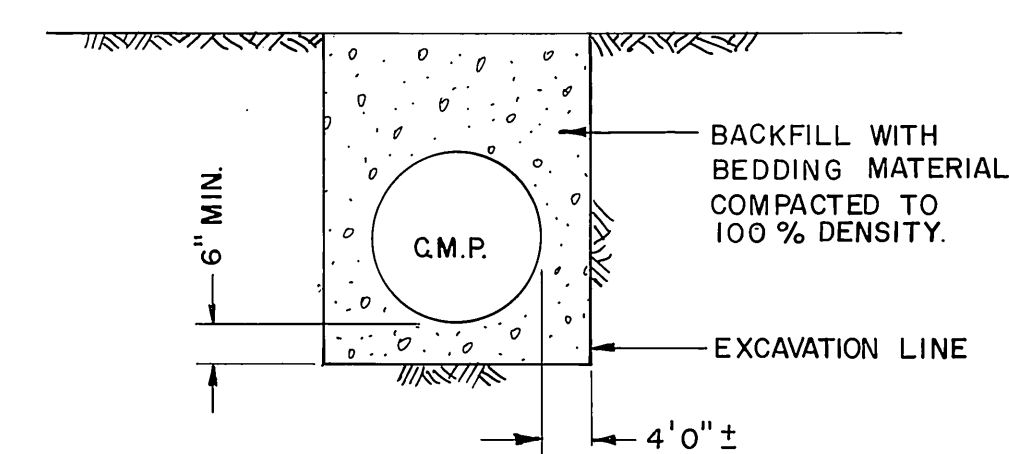
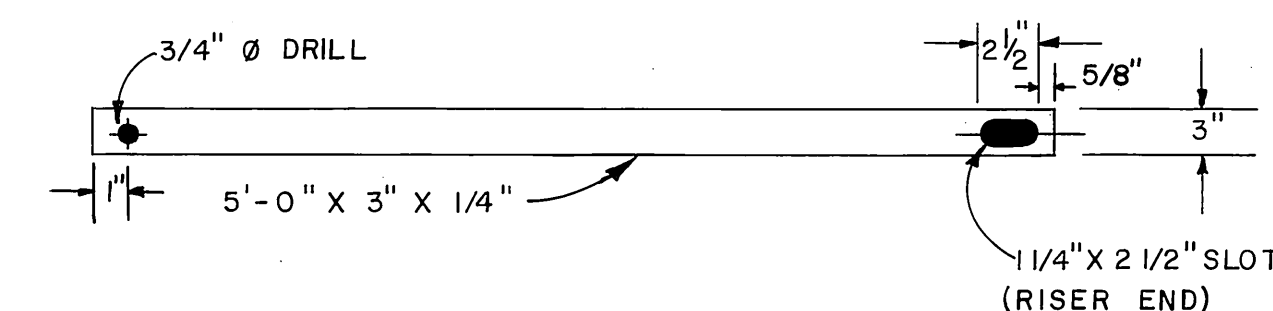
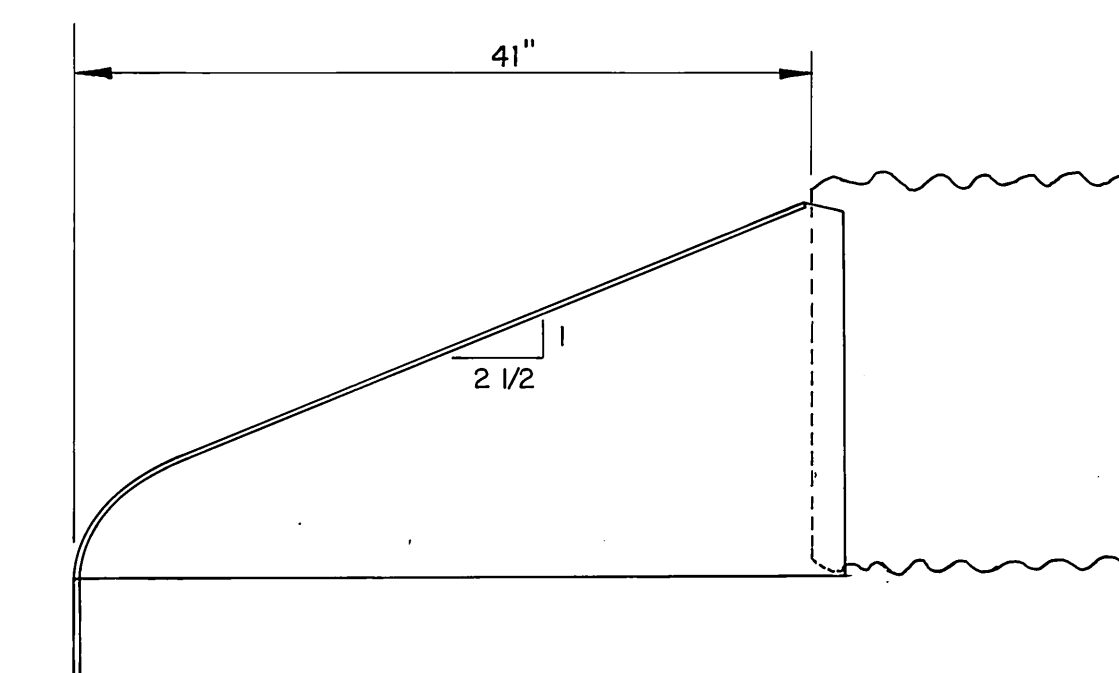
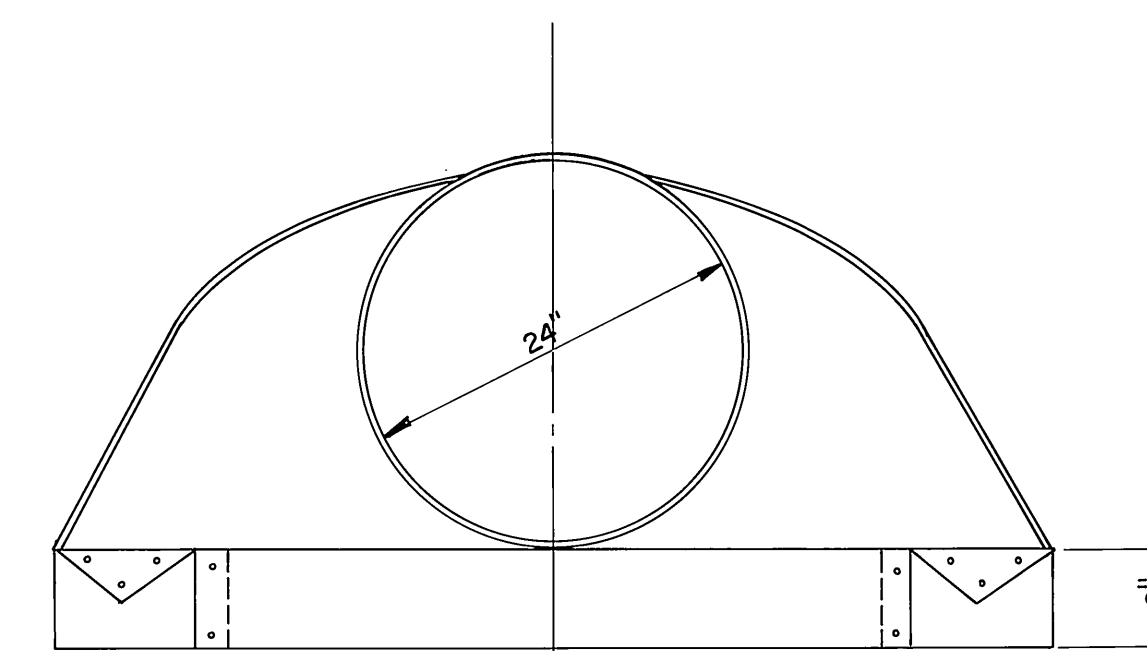
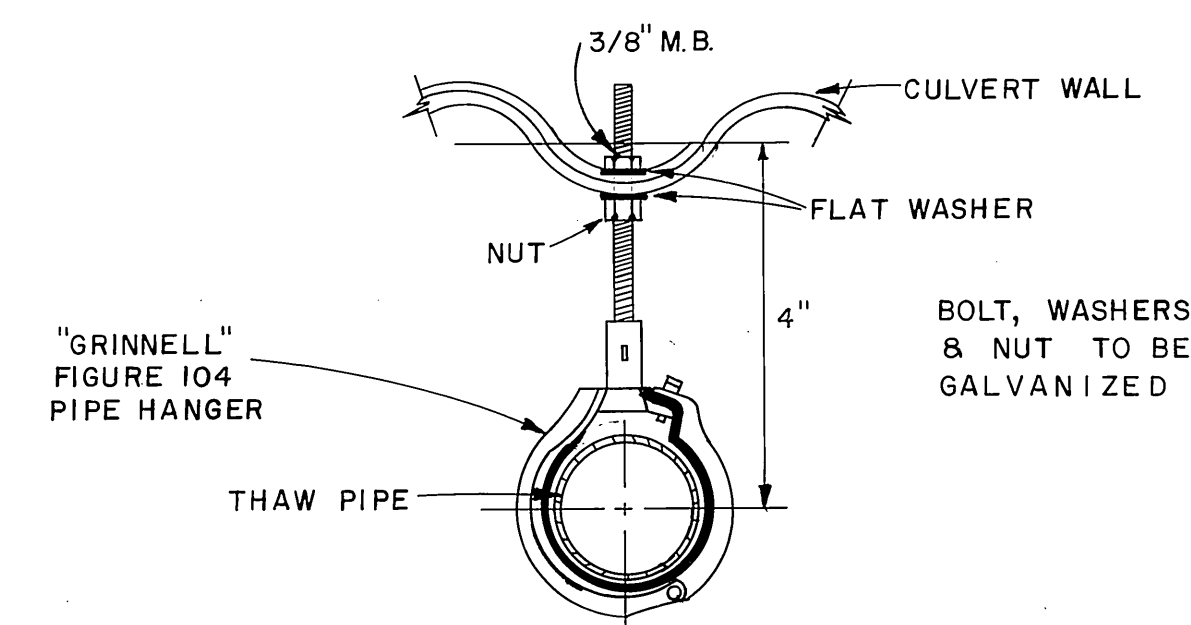
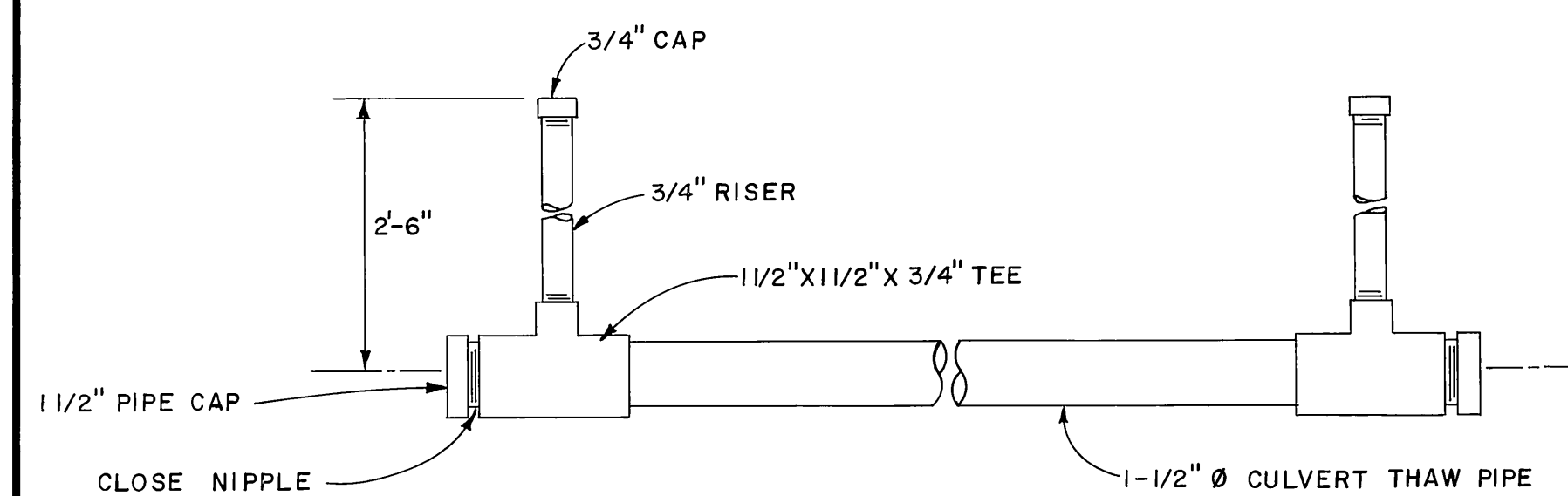
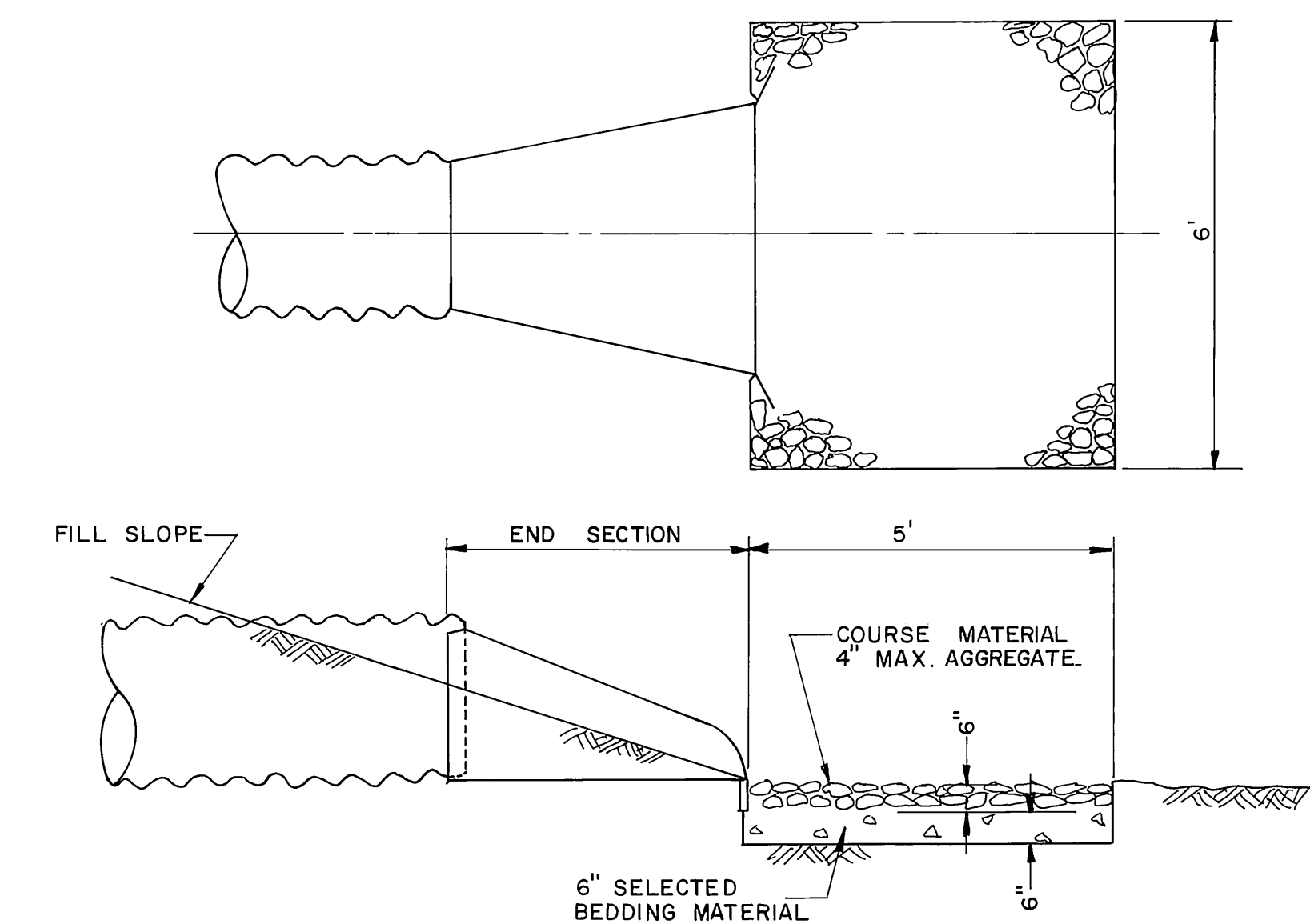
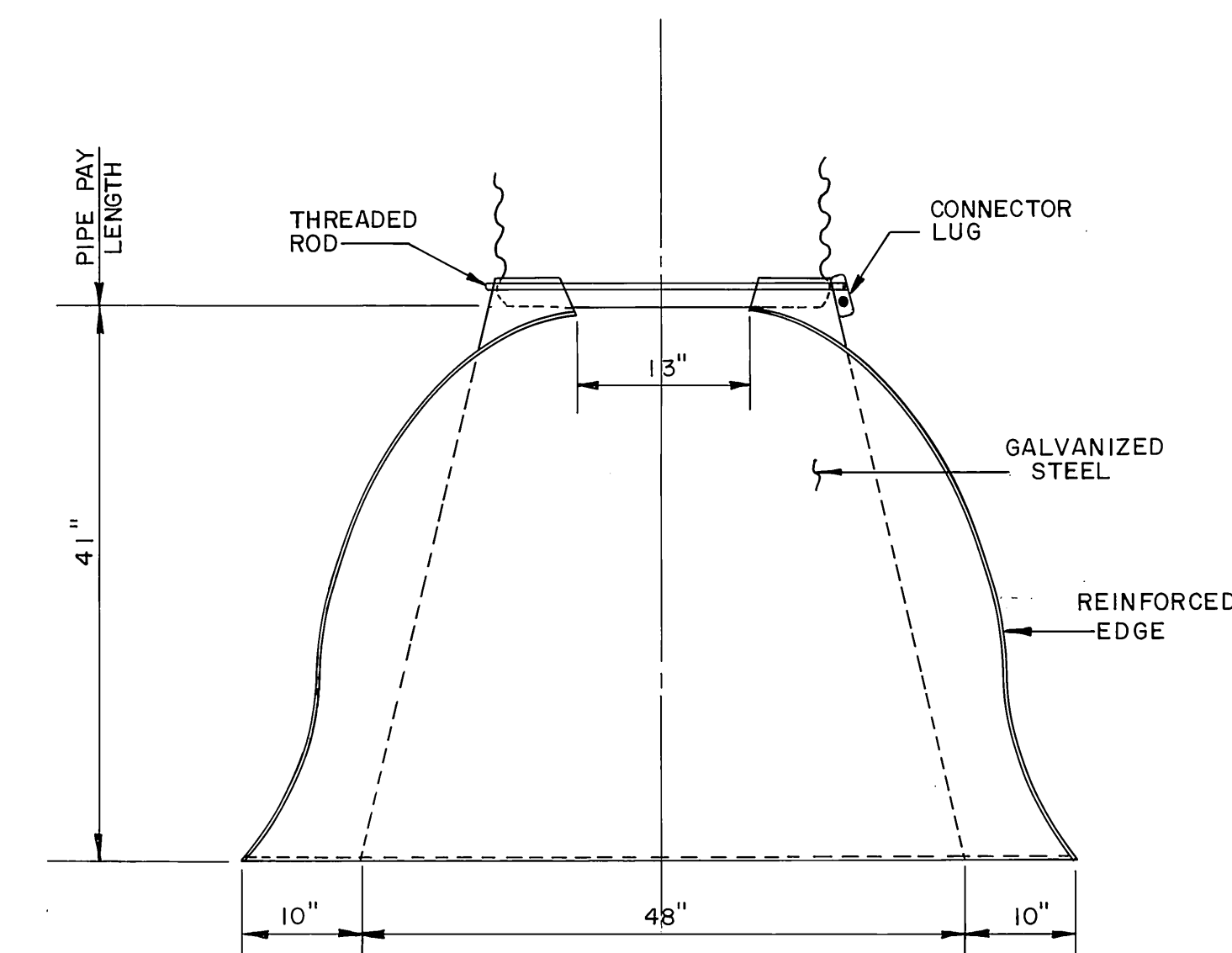
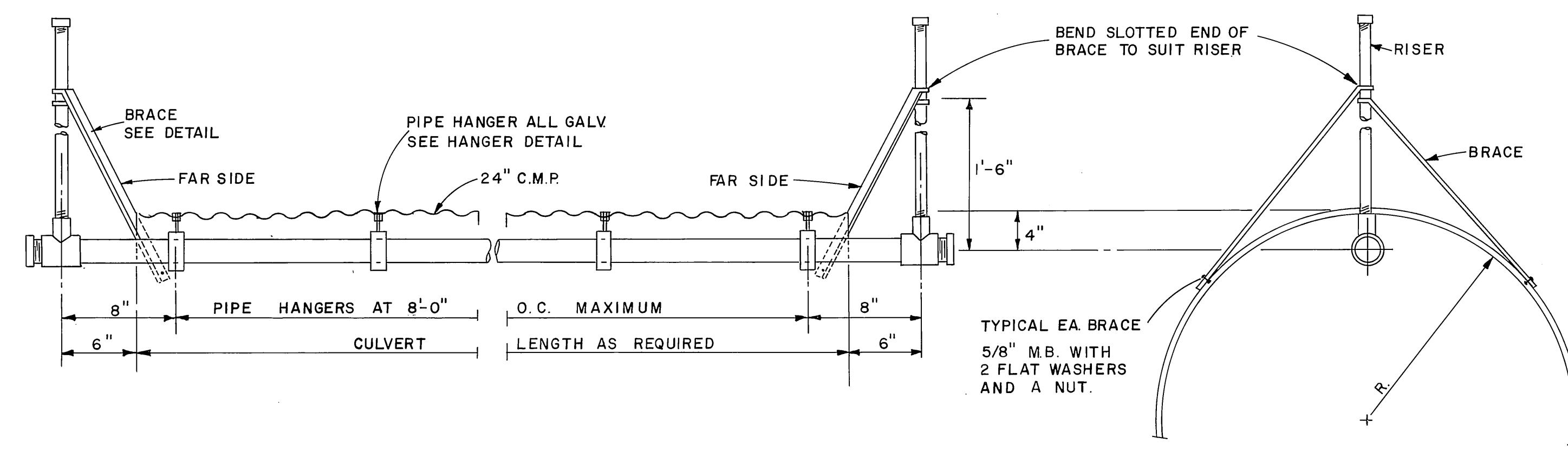


STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF AVIATION			
ILIAMNA AIRPORT ADAP NO. 8-02-0132-01 RUNWAY 17/35 PLAN AND PROFILE			
APPROVED	APPROVED		
JAMES N. RHODE, P.E.	TOMMY GENE HEINRICH, P.E.		
CHIEF DESIGN ENGINEER	TRUNK AIRPORTS ENGINEER		
SCALE	DESIGNED	DRAWN	SHEET
AS SHOWN	P.J.	S.P.C.	7 OF 26
CHECKED	DATE	DATE	
KLB	5/27/75	5/27/75	

PROFILE	BY _____	DATE _____
NOTE BOOK	SURVEYED _____	
	PLOTTED _____	
	GRADES CHECKED _____	
	B. M.'s NOTED _____	
No. _____	STRUCTURE NO. & ZONE CHECKED _____	



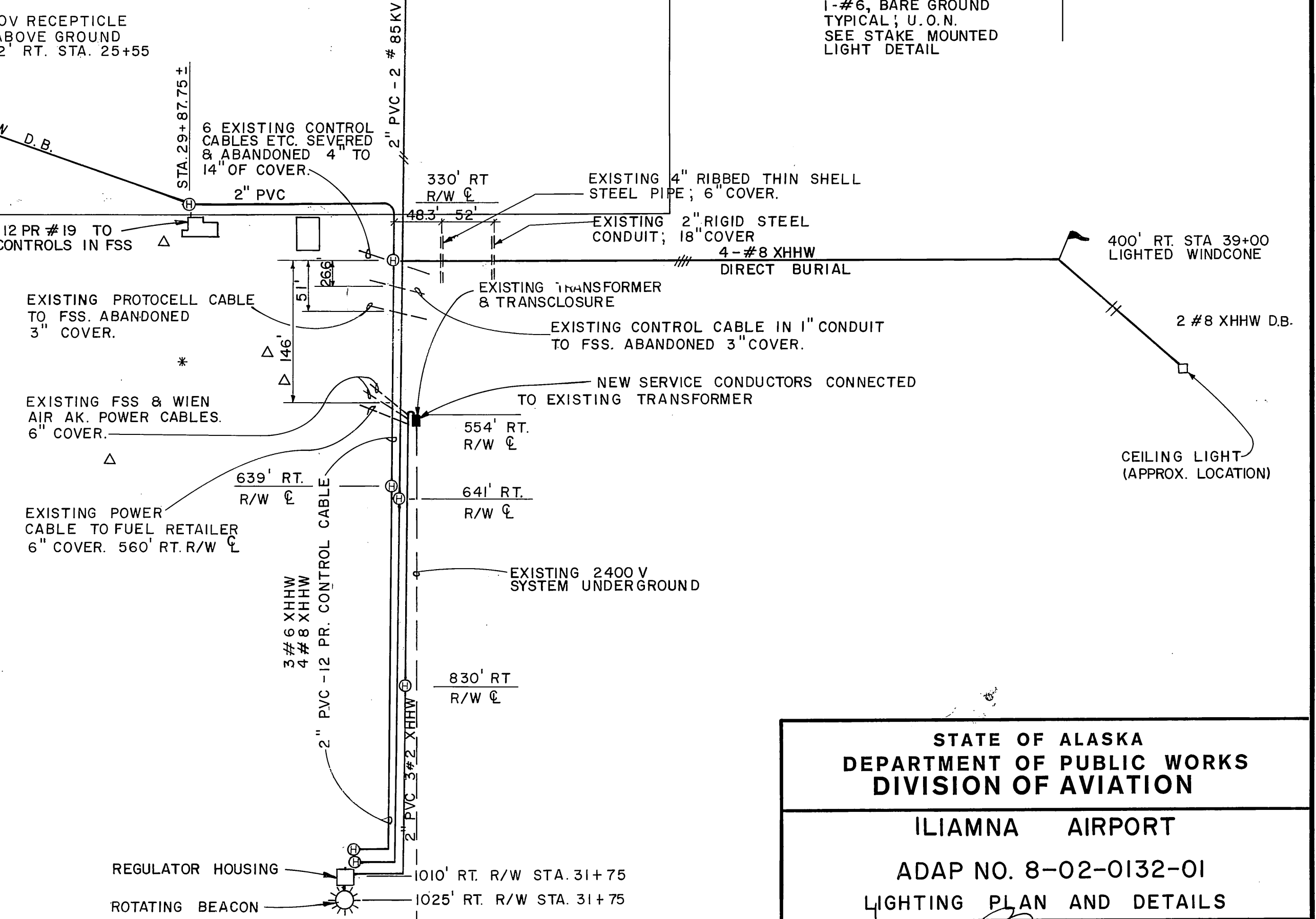
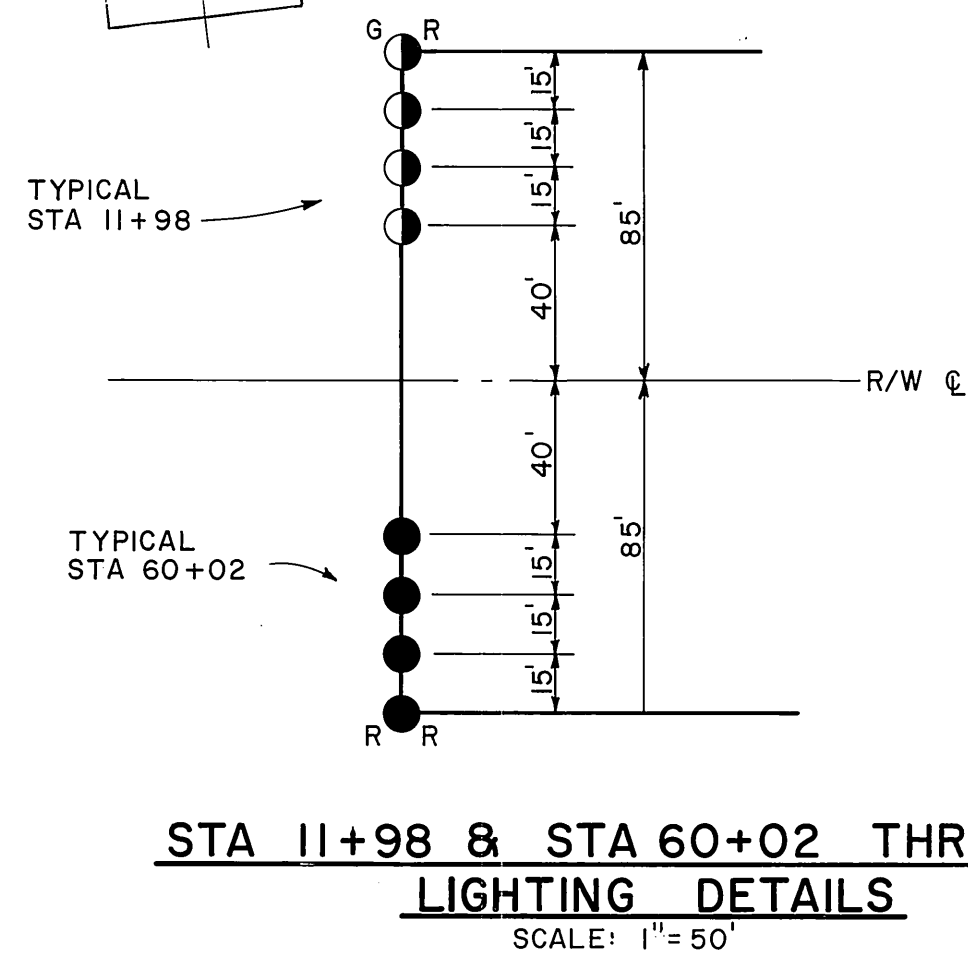
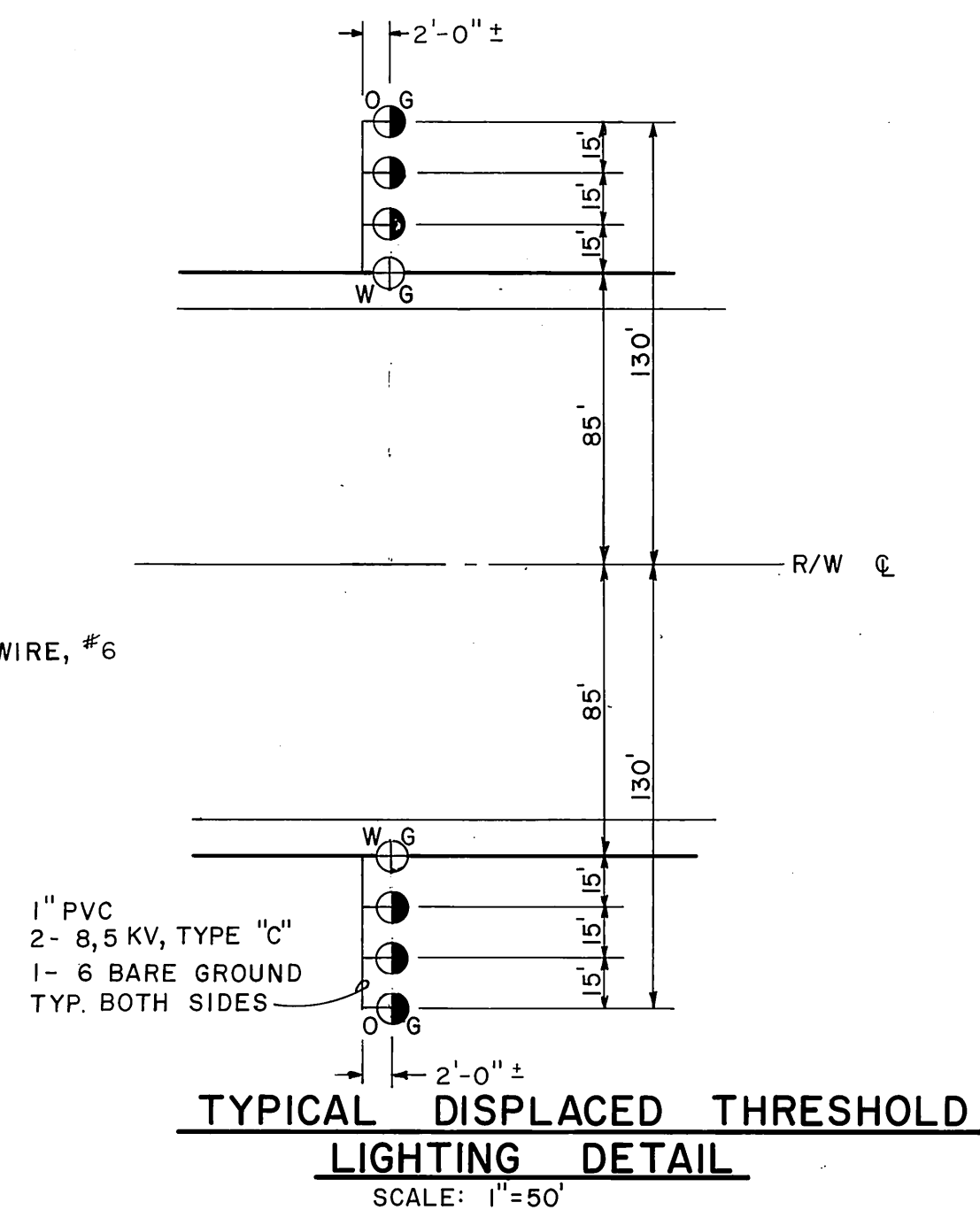
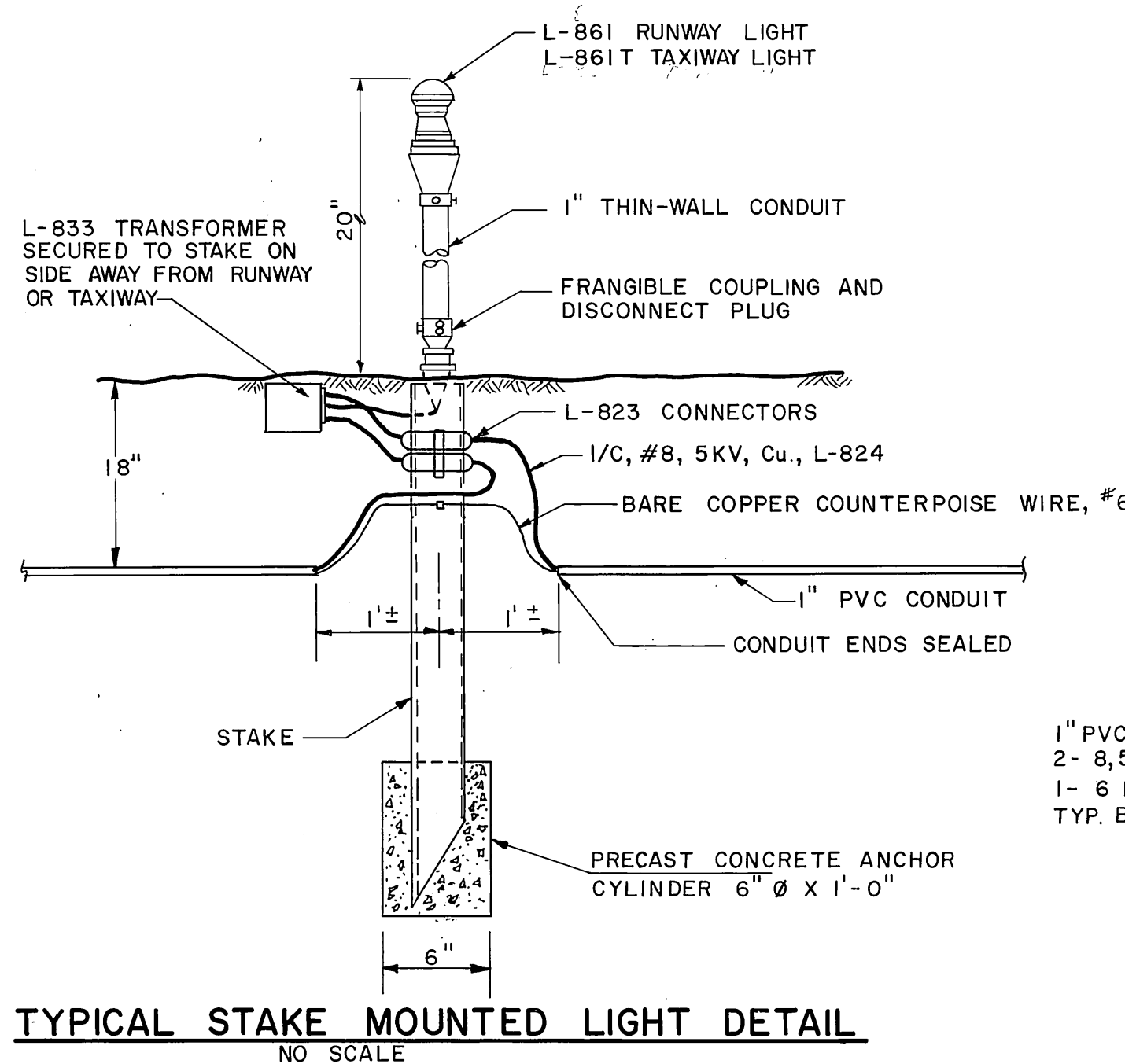
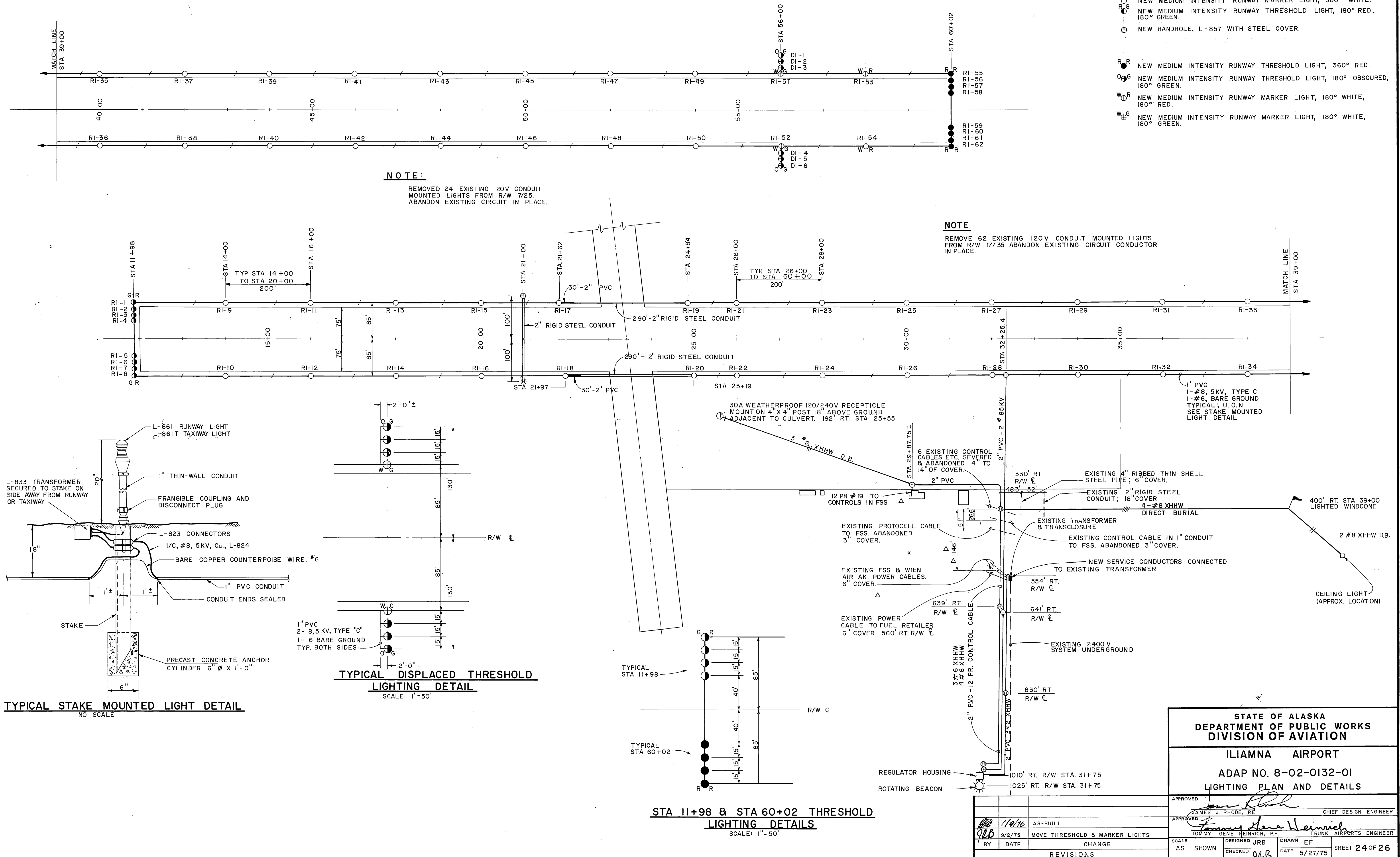
				APPROVED <i>[Signature]</i>		JAMES J. RHODE, PE.		CHIEF DESIGN ENGINEER	
				APPROVED <i>[Signature]</i>		TOMMY GENE HEINRICH, PE.		TRUNK AIRPORTS ENGINEER	
<i>[Signature]</i> 1/1/76		AS-BUILT		SCALE		DESIGNED		DRAWN	
BY		DATE		CHANGE		AS SHOWN		P. J. L. A. G.	
				REVISIONS		CHECKED		DATE	
						KLB		5/27/75	
								SHEET 18 OF 26	
AS-BUILT NOV' 75 8 OF 12									



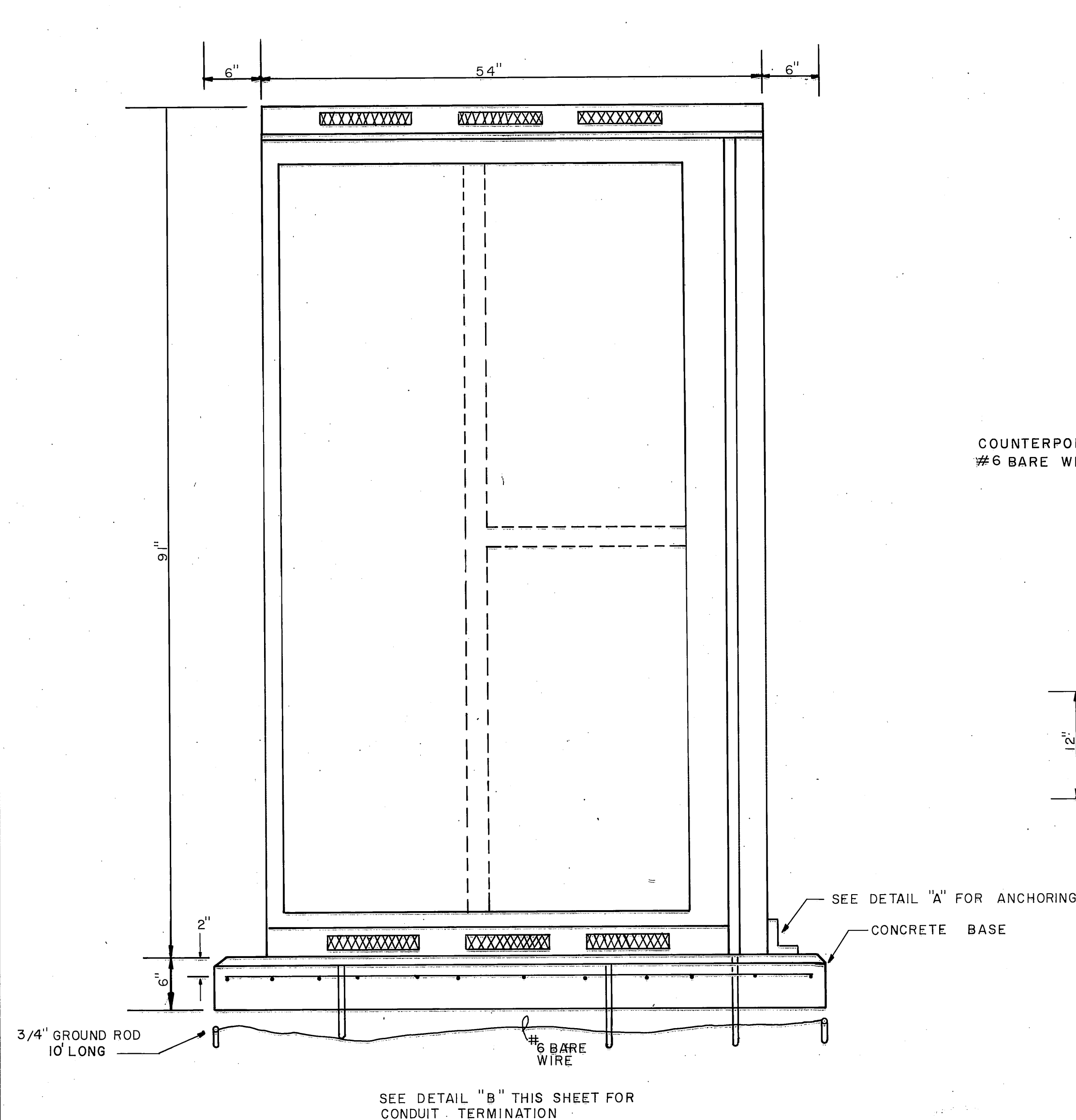
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				JAMES J RHODE, PE.			CHIEF DESIGN ENGINEER
				APPROVED	<i>[Signature]</i>		
				TOMMY GENE HEINRICH, PE.			TRUNK AIRPORTS ENGINEER
BY	DATE			SCALE:	DESIGNED	P.J.	L.A.G.
				AS SHOWN	CHECKED	KLB	DATE
							5/27/75
							SHEET 23 OF 26

LEGEND

- NEW MEDIUM INTENSITY RUNWAY MARKER LIGHT, 360° WHITE.
- NEW MEDIUM INTENSITY RUNWAY THRESHOLD LIGHT, 180° RED, 180° GREEN.
- ⊕ NEW HANDHOLE, L-857 WITH STEEL COVER.
- NEW MEDIUM INTENSITY RUNWAY THRESHOLD LIGHT, 360° RED.
- NEW MEDIUM INTENSITY RUNWAY THRESHOLD LIGHT, 180° OBSURED, 180° GREEN.
- W○R NEW MEDIUM INTENSITY RUNWAY MARKER LIGHT, 180° WHITE, 180° RED.
- W⊕ NEW MEDIUM INTENSITY RUNWAY MARKER LIGHT, 180° WHITE, 180° GREEN.



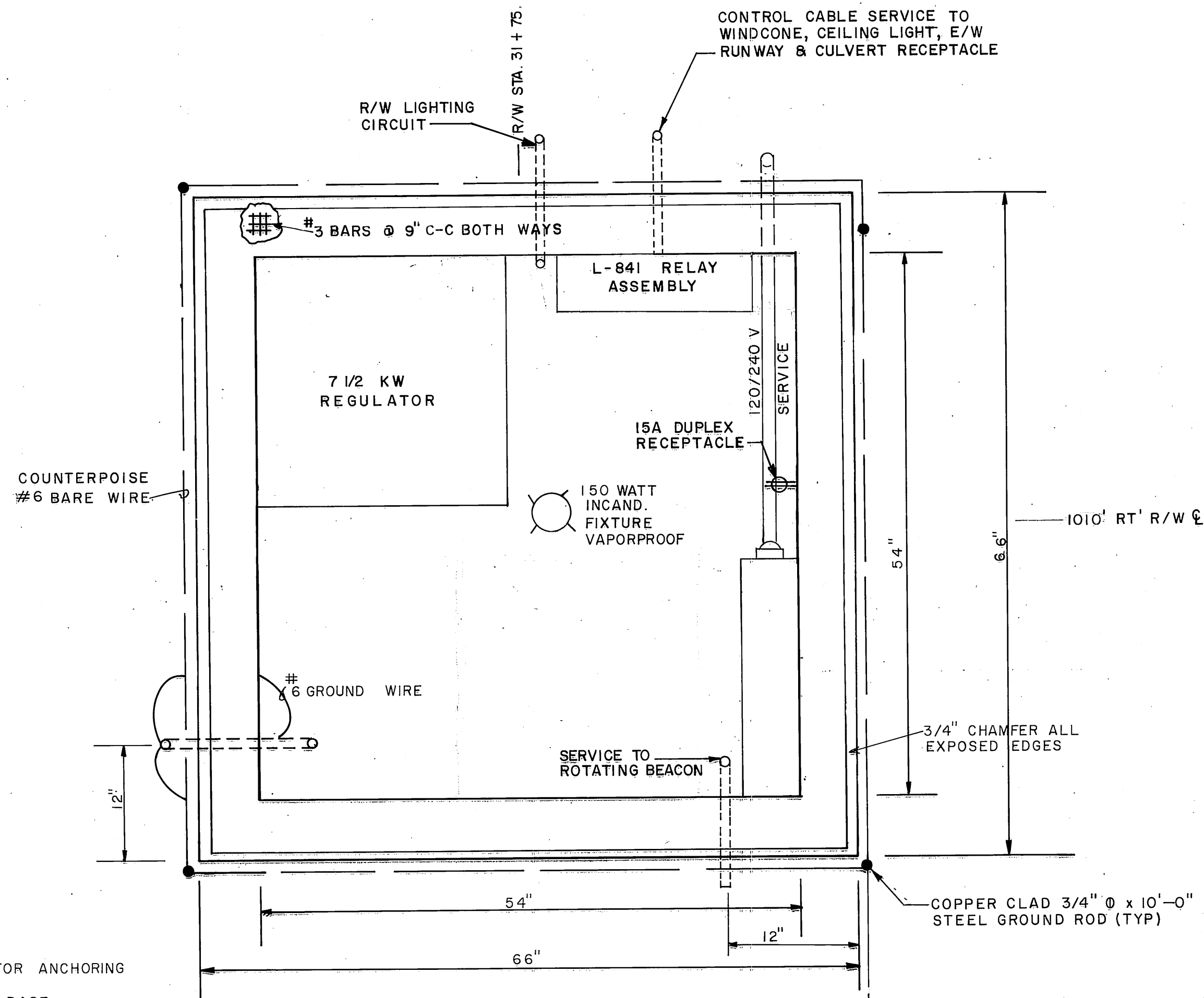
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF AVIATION			
ILIAMNA AIRPORT			
ADAP NO. 8-02-0132-01			
LIGHTING PLAN AND DETAILS			
APPROVED	JAMES J. RHODE, P.E. CHIEF DESIGN ENGINEER		
APPROVED	TOMMY GENE HEINRICH, P.E. TRUNK AIRPORTS ENGINEER		
SCALE	DESIGNED	DRAWN	SHEET
AS SHOWN	JRB	EF	24 OF 26
BY	DATE	CHECKED	DATE
JRB	11/9/76	0LB	5/27/75
REVISIONS			
AS-BUILT NOV'75 10 OF 12			



ELEVATION VIEW
NO SCALE

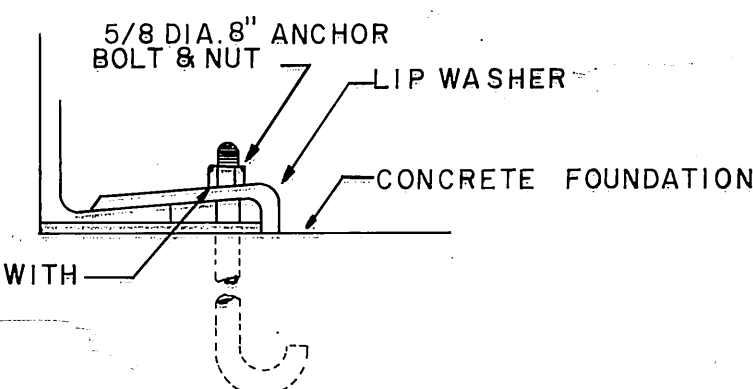
GENERAL NOTES

1. ALL UNDERGROUND CONDUITS TERMINATE WITH GROUNDING BUSHINGS. ALL SPARE OR UNUSED CONDUITS CAPPED.
2. ALL STRUCTURAL FRAMEWORK, EQUIPMENT CASES, NEUTRALS, CONDUITS, AND LIGHTNING ARRESTORS GROUNDED TO UNDERGROUND COUNTER-POISE.
3. ALL UNDERGROUND GROUND CONNECTIONS ARE BY THE ELECTRO-THERMIC PROCESS BURNDY "THERMOWELD" OR ERICO PRODUCTS "CADWELD."
4. SUBSTATION HOUSING BOLTED TO CONCRETE PAD. ALL MATING SURFACES ARE CAULKED TO PREVENT ENTRANCE OF WATER.

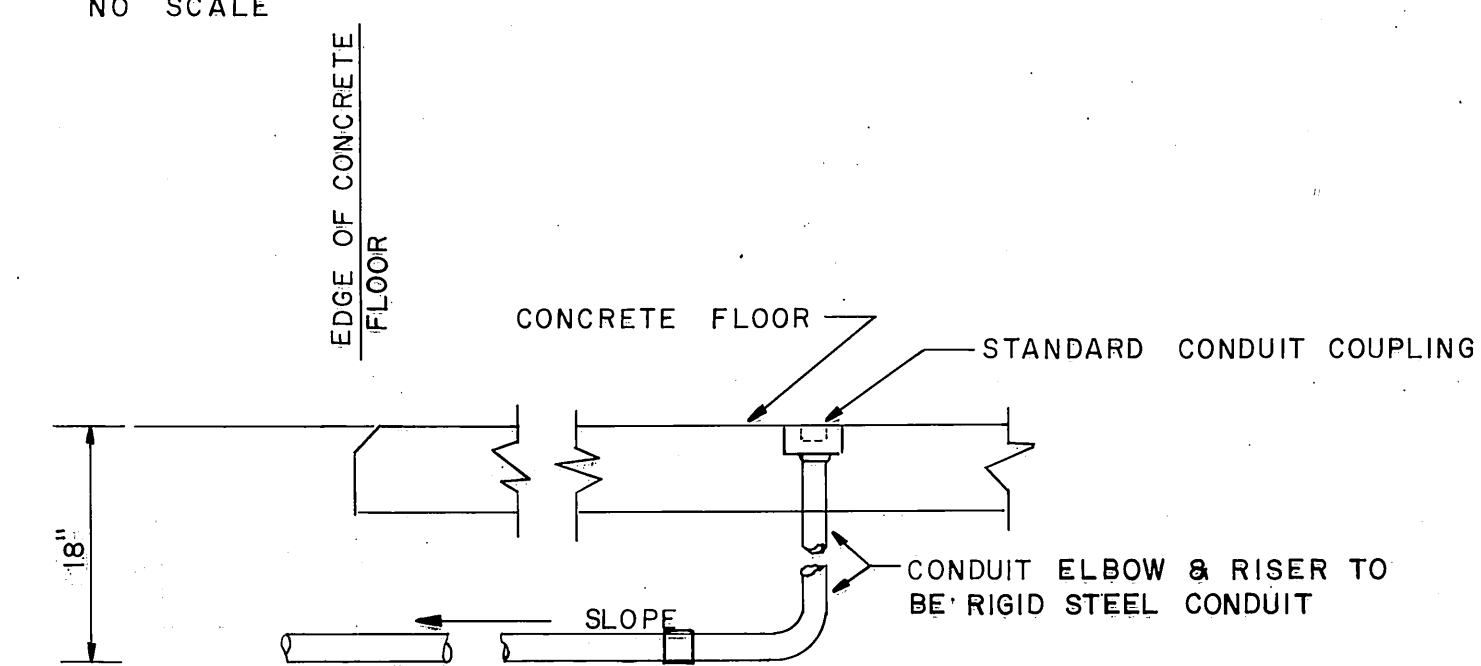


PLAN VIEW OF PREFABRICATED METAL HOUSING & BASE
NO SCALE

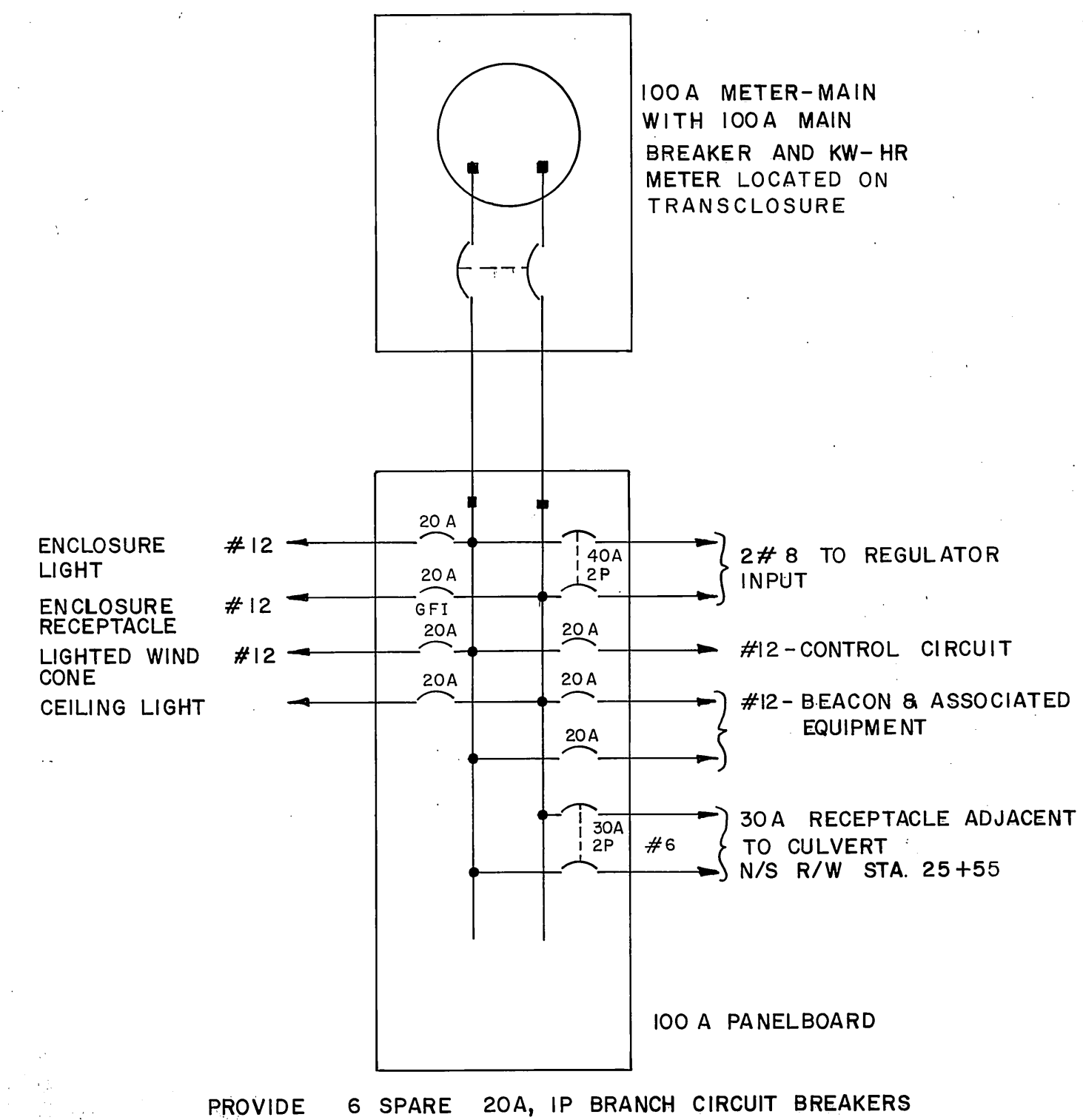
COUNTERPOISE
#6 BARE WIRE TO
ROTATING BEACON



DETAIL "A" HOUSING ANCHOR
NO SCALE



DETAIL "B" CONDUIT TERMINATION (TYPICAL)
NO SCALE



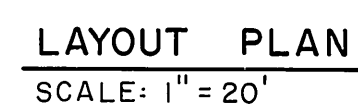
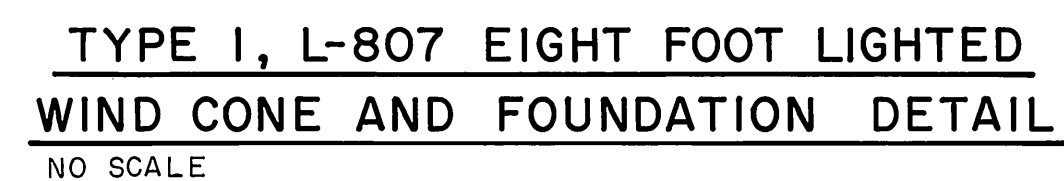
POWER SERVICE DIAGRAM

STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF AVIATION

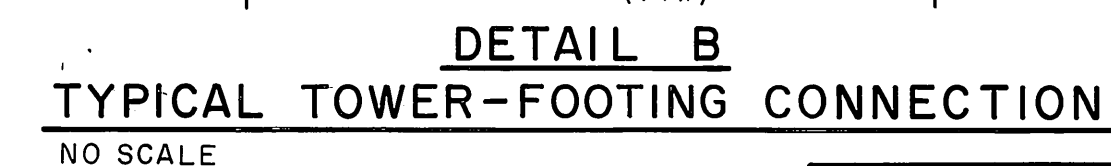
ILIAMNA AIRPORT
ADAP NO. 8-02-0132-01
REGULATOR HOUSING DETAILS

APPROVED	<i>James J. Rhode</i>	CHIEF DESIGN ENGINEER
DESIGNED	JRB	DRAWN
CHECKED	JRB	DATE
AS SHOWN	9/28	5/27/75

BY	DATE	CHANGE
AS-BUILT	1/9/76	
REVISIONS		



1. Z TO BE THE SAME AS ON EXISTING TOWER.
2. EXCEPT AS NOTED, ALL MATERIAL IS NEW AND TO BE SUPPLIED BY CONTRACTOR.
3. EXCEPT FOR REBAR, STEEL SUPPLIED SHALL BE GALVANIZED. WHEN GALVANIZING IS DESTROYED BY WELDING OR OTHER MEANS, SURFACES SHALL BE RECOATED.
4. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
5. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER.
6. WELDS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
7. BEFORE WELDING, THE TIGHTNESS OF ALL NUTS SHALL BE APPROVED BY THE ENGINEER,
8. STEEL SHALL BE GRADE ASTM A36 DESIGNATION OR AS APPROVED BY THE ENGINEER.



				APPROVED			
					JAMES J. RHODE, P.E.		CHIEF DESIGN ENGINEER
				APPROVED			
					TOMMY GENE HEINRICH, P.E.		TRUNK AIRPORTS ENGINEER
	1/9/16	AS-BUILT	CHANGE	SCALE	DESIGNED	DRAWN	
BY	DATE			AS SHOWN	CHECKED	DATE	SHEET 26 OF 26
			REVISIONS		0.0 R	5/27/15	